

Purpose

The purpose of this document is to provide an optional template format for a request to manage material under Wis. Admin. Code § NR 718.12 or NR 718.15. This document may be included as part of an interim or remedial action plan (RAP) or post-closure modification request, or can be submitted by itself depending on the activities conducted at the site. Using this recommended format will likely result in a faster Department of Natural Resources (DNR) review. At a minimum, all requests must satisfy the requirements outlined in Wis. Admin. Code § NR 718.12 (1) and (2) (b).

Introduction

Contaminated soil and other solid waste generated from a response action site as part of an interim or remedial action may be managed at a site or facility that is not an operating licensed landfill if an exemption from the Waste and Materials Management Program requirements established in Wis. Stat. ch. 289 and Wis. Admin. Code ch. NR 500 to NR 538 is obtained under Wis. Admin. Code §§ NR 718.12 or NR 718.15. An approval under Wis. Admin. Code § NR 718.12 can be granted when contaminated soil is being managed as part of an interim action under Wis. Admin. Code ch. NR 708 or a remedial action under Wis. Admin. Code ch. NR 722. An approval through Wis. Admin. Code § NR 718.15 can be granted when other solid waste material is managed as part of an interim or remedial action on the site from which it was generated. Managing material under either section requires prior written approval from the DNR. For more information see "Management of Contaminated Soil and Other Solid Wastes, Wis. Admin. Code §§ NR 718.12 and NR 718.15" (RR-060), by visiting dnr.wi.gov, search "RR-060."

If this approval request involves contaminated material impacted by a discharge of a hazardous substance that has not been reported to the DNR, a "Notification for Hazardous Substance Discharge (non-emergency)", DNR Form 4400-225, must be completed and submitted immediately as required by Wis. Admin. Code § NR 706, unless an alternate method of reporting is approved by the DNR. This form can be found by visiting dnr.wi.gov, search "4400-225."

This template is not intended to be used for immediate actions under Wis. Admin. Code § NR 708.05, as prior DNR approval is not required if: 1) the requirements of Wis. Admin. Code § NR 718.12 (1) are met, 2) contaminant concentrations do not exceed Wis. Admin. Code ch. NR 720 soil residual contaminant levels, 3) and the quantity of material managed is less than 100 cubic yards total.

Requests to manage material under Wis. Admin. Code ch. NR 718 for projects involving large-scale disposal or requiring items such as a liner system, leachate treatment and an engineered cap, or projects proposing to place the material below the groundwater table, should not be requested using this template. Consult with DNR staff before submitting such a proposal

Document Instructions

In order to expedite processing, complete all applicable sections of this document as instructed. **Fields/sections required by administrative code are marked with a red asterisk (*)**. All other fields are optional and are included to assist DNR staff in gathering additional information to expedite review of the request.

Some portions of the document may be filled in directly as indicated, other responses may need to be completed separately and attached. If a field is not relevant, explaining why will further assist staff in reviewing the request.

In this document, "generating site or facility" means the site or facility where the response action is generating the contaminated material subject to this approval request. "Receiving site or facility" means the site or facility where the contaminated material is proposed to be managed. The "receiving site or facility" may be the same site or facility as the generating site or facility, or it may be a different site or facility.

Submittal Instructions

Please submit this form and related documents using the RR Program Submittal Portal at dnr.wi.gov, search "RR Submittal Portal". All accompanying attachments should be combined into a separate PDF. Please see [RR-690](#) for up-to-date information on submitting documents.

For questions on this form, please contact Judy Fassbender at judy.fassbender@wisconsin.gov.

Recommended Template for Request to Manage Materials under Wis. Admin. Code § NR 718.12 or NR 718.15

Form 4400-315 (R 11/20)

Page 2 of 12

Section 1 – Purpose of Request

Identify the purpose of the request by checking each box that applies:

- Manage contaminated soil as part of an interim or remedial action or post-closure modification on the same response action site from which it was generated (Wis. Admin. Code §§ NR 718.12 (1) and (2)).
- Manage contaminated soil as part of an interim or remedial action or post-closure modification at a site or facility that is different from the response action site from which it was generated (Wis. Admin. Code §§ NR 718.12 (1) and (2)).
- Manage other solid waste other than contaminated soil, as part of a response action, at the same site from which it was generated (Wis. Admin. Code § NR 718.15).

If none of the above boxes are checked, the proposed materials management activity cannot be exempted from solid waste rules under Wis. Admin. Code ch. NR 718. Management of solid waste material generated as a result of a non-NR 700 action may be allowed after obtaining a “low hazard exemption” from the DNR Waste and Material Management Program. Please see the DNR publication “Exempting Low-Hazard Wastes from Solid Waste Regulations” (PUB-WA 1645), which can be found by visiting dnr.wi.gov, search “WA1645.”

Section 2 – Applicable Fees

Fees are assessed for each type of Wis. Admin. Code § NR 718.12 or NR 718.15 request (plus database fee) **per site or facility** where contaminated material is excavated or managed. The below tables are provided to assist you in calculating the appropriate Wis. Admin. Code § NR 749 fee required for the review of your submittal.

Identify the Wis. Admin. Code § NR 749 review fees for this submittal by checking the applicable “On-Site Management Fee” in section A, column D. If material will be managed at a site(s) or facility(ies) other than the response action site, also select the appropriate “Off-Site Management Fee” in section B, and indicate the number of applicable receiving sites in column E. Please send a single check to the regional office managing your request. Specific directions will be detailed in your submittal confirmation.

A. Fee Assessed to Excavate or Manage Soil or Other Solid Waste on the Generating Site or Facility

A	B	C	D
Action	Action Fee	Database Fee	On-Site Mgmt Fee
MMP as part of Interim Action per NR 708.11, with residual soil CO	\$700	\$300	<input type="checkbox"/> \$1000
MMP as part of Interim Action per NR 708.11, without residual soil CO	\$700	No fee	<input type="checkbox"/> \$700
MMP as part of Remedial Action Plan approval, with residual soil CO	\$1050	\$300	<input type="checkbox"/> \$1350
MMP as part of a Remedial Action Plan approval without residual soil CO	\$1050	No fee	<input type="checkbox"/> \$1050
Closed Sites: MMP as part of a CO modification action, with residual soil CO	\$1050	\$300	<input type="checkbox"/> \$1350
Closed Sites: MMP as part of a CO modification action, without residual soil CO	\$1050	No fee	<input type="checkbox"/> \$1050
MMP separate from RAP or CO mod, with residual soil CO	\$700	\$300	<input checked="" type="checkbox"/> \$1000
MMP separate from RAP or CO mod, without residual soil CO	\$700	No fee	<input type="checkbox"/> \$700

B. Fee Assessed to Manage Soil on a Site or Facility other than the Generating Site or Facility

A	B	C	D	E	F
Action	Action Fee	Database Fee	Off-Site Mgmt Fee	# of receiving sites subject to action	Total for row
MMP as part of interim action, remedial action, modification to COs, etc., with residual soil CO	\$700	\$300	<input type="checkbox"/> \$1000		
MMP as part of interim action, remedial action, modification to COs, etc., without residual soil CO	\$700	No fee	<input type="checkbox"/> \$700		
Total of Off-Site Management Fee				\$0	
Total of On-Site and Off-Site Management Fee				\$1,000	

- MMP** – A Material Management Plan submitted in accordance with Wis. Admin. Code §§ NR 718.12 (1) and (2) or NR 718.15.
- “With residual soil CO”** - site will have a residual soil continuing obligation (e.g. engineering control, cap, or cover) applied at the generating site or facility at the end of the applicable action; remedial action approval, or approval by an addendum to the closure letter.
- “Without residual soil CO”** - site that will not have a residual soil continuing obligation applied at the generating site or facility at the end of the applicable action.

Recommended Template for Request to Manage Materials under Wis. Admin. Code § NR 718.12 or NR 718.15

Form 4400-315 (R 11/20)

Page 3 of 12

Section 3 –Property and Contact Information

A. Information about the generating site or facility (from which material is proposed to be excavated)

BRRTS #(s) (include Materials Management #s and VPLE #s if assigned)	BRRTS Activity (Site) Name(s)	FID #(s)
0 2 - 3 0 - 0 0 0 3 2 7	Chrysler Kenosha Main Plant (ERP)	2 3 0 0 0 4 5 0 0
0 3 - 3 0 - 0 0 0 6 2 5	Chrysler Corp - Main Plt (LUST)	2 3 0 0 0 4 5 0 0
0 2 - 3 0 - 1 0 8 6 4 5	Chrysler Engine Plt (ERP)	2 3 0 0 0 4 5 0 0
0 3 - 0 3 - 2 6 1 1 3 8	Daimler Chrysler Kenosha Engine Plt (LUST)	2 3 0 0 0 4 5 0 0
0 2 - 3 0 - 2 8 7 5 3 2	Daimler Chrysler Corp (ERP)	2 3 0 0 0 4 5 0 0

Response Action Site Address* (physical, not mailing address)

5555 30th Avenue

City* Kenosha	State* WI	Parcel ID #(s) 09-222-36-430-001
County* Kenosha	ZIP Code* 53140	

WTM Coordinates* X: <u>6</u> <u>9</u> <u>5</u> <u>8</u> <u>1</u> <u>7</u> Y: <u>2</u> <u>3</u> <u>6</u> <u>7</u> <u>4</u> <u>5</u>	Lat/Long Coordinates decimal degrees (min. of 6 digits right of decimal, e.g., -89.123456)* Lat: <u>42.5827671</u> Long: <u>-87.843962</u>	Coordinates Represent: <input checked="" type="radio"/> Center of Project <input type="radio"/> Parcel Center
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$\frac{1}{4}$ * SW $\frac{1}{4}$ * SE	Section* 36	Township* 02 N	Range* 22 <input checked="" type="radio"/> E <input type="radio"/> W
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Current Zoning: Kenosha Innovation Neighborhood District-Light Manufacturing per City M2-Heavy Industrial per County	Current Land Use: Former industrial undergoing redevelopment with streets, water and sewer
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B. Responsible Party (RP) of the generating site or facility

The Wis. Admin. Code §§ NR 718.12 or NR 718.15 approval will be issued to the Wis. Admin. Code NR 700 series responsible party identified below and to the owner of the receiving site or facility, if different than the generating site or facility. If there is more than one responsible party or property owner, include the information requested below for each.

Responsible Party (RP) Name* Brian Cater, Director of Public Works	Organization / Business Name City of Kenosha		
Mailing Address* 625 52nd Street, Room 305	City* Kenosha	State* WI	ZIP Code* 53140
Phone # (include area code)* (262) 653-4156	Email* bcater@kenosha.org		

C. Property owner(s) information for generating site or facility if different than RP

Check here if the property owner of the generating site or facility is different than the responsible party, and enter the property owner's information below.

Property Owner Name(s)	Organization / Business Name		
Mailing Address	City	State	ZIP Code
Phone # (include area code)	Email		

D. Consultant / contractor information

Consultant / Contractor Name* Lanette Altenbach	Organization / Business Name* AECOM Technical Services Inc.
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**Recommended Template for Request to Manage Materials
under Wis. Admin. Code § NR 718.12 or NR 718.15**

Form 4400-315 (R 11/20)

Page 4 of 12

Mailing Address* 1555 N RiverCenter Drive, Suite 214	City* Milwaukee	State* WI	ZIP Code* 53212
Phone # (include area code)* (414) 944-6186	Email lanette.altenbach@aecom.com		

E. Contact information for questions about this request

Contact Name Greg Boldt	Organization / Business Name City of Kenosha		
Mailing Address 625 52nd Street	City Kenosha	State WI	ZIP Code 53140
Phone # (include area code) (262) 653-4057	Email lanette.altenbach@aecom.com		
Relationship to the Requestor (Same, Consultant, Developer, Etc.): Same			

Section 4 – Results of Analyses Performed and Characteristics of Waste

The following information is necessary for the DNR to review the request for compliance with Wis. Admin. Code §§ NR 718.12 (1) (d) 1, NR 718.12 (2) (b) 2. and NR 718.12 (2) (b) 6. In this section, describe the characteristics of the contaminated soil and/or other solid waste material that will be managed under this request, describe the sampling activities conducted and demonstrate how it has been adequately characterized. Narrative boxes have a limit of 2500 characters. Please attach additional pages if necessary, clearly labeling the section of the form to which you are responding.

- A. Enter the total volume of contaminated soil and/or other solid waste to be managed (cubic yards) *:
69,397
-
- B. Describe the characteristics of the material proposed to be managed,* which may include general makeup, physical characteristics, the homogeneity of the material, the proportion of soil to other solid waste, and any other pertinent descriptors.
Excavated material will primarily consist of soil.
-
- C. Describe the historic and current land use of the generating site or facility where the contaminated soil or other solid waste originates, including how this site or facility is zoned.
The site is the former Kenosha Engine Plant with nearly 100 years of manufacturing trucks, automobiles, and lastly, just motors. Buildings were present over much of the site, and the contaminants resulted from the normal use of chemicals during the various manufacturing processes. The site is zoned M-2 Heavy Manufacturing by County and Light Manufacturing by City.
-
- D. Describe identified contaminants and the source(s). Indicate whether contaminant concentrations exceed Wis. Admin. Code § NR 720 Residual Contaminant Levels.
Petroleum and chlorinated solvent contamination were identified in various areas of the site. Soils that exceeded industrial RCLs were generally removed from the first 10-12 feet of the soil column, but non-industrial or groundwater pathway exceedances occur in some areas.
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- E. Describe the sampling activities conducted to characterize the material including where the samples were collected, how sample locations were chosen, the sampling methods used, and when sampling activities were conducted.
A Phase I Environmental Site Assessment was completed for the property. Phase II investigations evaluated the identified RECs. A site-wide investigation filled in the gaps of the Phase II ESAs, and a report containing the soil and groundwater results was prepared and submitted. A Remedial Action Options Report and Soil Remedial Design report were prepared, submitted and approved by the WDNR. Soil remediation was conducted to remove industrial RCL exceedances. A groundwater remedial design report was prepared, a contractor for groundwater remediation was selected and currently in-situ groundwater remediation is occurring. Table 1 (attached) provides the investigation/ remediation chronology.
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- F. Explain how the sampling activities adequately characterized the contaminated soil or other solid waste proposed to be managed. Indicate whether the samples were analyzed for all contaminants previously identified at the generating site or facility and analyzed for all contaminants potentially present at the site or facility considering current and historic land use. Discuss how samples were collected from areas most likely to be contaminated and from material that will actually be managed under this request.
Sampling activities included analysis for volatile organic compounds, polycyclic aromatic hydrocarbons and metals as appropriate for the type of operations across the site. Work plans detailing these investigations were reviewed by the

**Recommended Template for Request to Manage Materials
under Wis. Admin. Code § NR 718.12 or NR 718.15**

Form 4400-315 (R 11/20)

Page 5 of 12

WDNR and approved. The results were used to plan the soil remediation that was approved with the residuals that my remain over the non-industrial RCLs to be managed during redevelopment. The samples were collected with accepted standards for environmental sample collection and were collected to define the horizontal and vertical extent of any impact. The attached figures shows the locations of each of the sample locations (Figures 6 and 7) and the relative location of the planned infrastructure development (Figures 4 and 5 and Grading Plan). Additional information is included in the attached Soil and Materials Management Plan - Appendix A contains maps and tables of the samples collected across the KEP site.

G. Enter the total number of samples collected from this material and analyzed for contaminants of concern.

975

H. Enter the rate of sample collection per volume. One sample per 71 yards of contaminated material.

- i. Wis. Admin. Code § NR 718.12 (1) (e) requires that samples collected to characterize soil be collected at a rate of one sample per 100 cubic yards (for the first 600 cubic yards) and one sample for each additional 300 cubic yards of material, with a minimum of two samples. If the DNR pre-approved an alternative sampling plan, describe how the sampling that was conducted complied with a pre-approved plan. Please also provide the date the sampling plan was pre-approved and the name of the DNR staff person who approved the plan.

There is no specific sampling plan for the site-wise infrastructure development. The site wide investigation results cover much of the area for this initial Phase of the redevelopment.

Section 5 – Project description/material management plan

The following information is necessary for the DNR to review the request for compliance with Wis. Admin. Code §§ NR 718.12 (2) (b) (5), (7) and (8). In this section, describe how the contaminated materials will be managed, the proposed schedule for managing the material, and provide sufficient information to justify that the placement of the contaminated materials will meet the requirements of Wis. Admin. Code §§ NR 726.12 (1) (b) 1. to 5. Narrative boxes have a limit of 2500 characters. Please attach additional pages if necessary, clearly labeling the section of the form to which you are responding.

- A. Describe the material management activities to take place.* Provide details on how and where the material will be generated, transported and placed. Describe the depth of the proposed excavation of contaminated soil or other solid waste, and the depth that it will be placed at the receiving site or facility. Describe any response actions proposed for the receiving site or facility to address the relocated contaminated material (such as the construction of a cap). Discuss how material management activities will fit in with the overall property remediation and/or redevelopment plans.

The infrastructure designer has created a cut and fill map for the infrastructure construction that includes two new roads, 28th Avenue and 56th Street, grading associated with the roads, new city water mains, sanitary sewers and storm sewers. The water and sewer construction trenches will place excavated soil adjacent to the trench and after the piping is placed with the bedding backfill, the trench spoils will be replaced in approximately the same location from where they originated. Most portions of the road will be raised and the spoils from the utility trenches or other parts of the road grading will be placed under the roadway. The soils moved around the site will ultimately be covered with pavement or clean fill soil to meet final grade.

- B. Summarize the proposed schedule for implementation of the activities including anticipated start and end dates.*
Sanitary construction started in December and moved onto the KEP but has since been suspended due to weather. The work will continue through 2024 with an expected completion date of February 2025

- C. Confirm the proposed management activities will comply with Wis. Admin. Code § NR 726.13 (1) (b) 1. through 5.*

1. The proposed roadways and utilities will not pose a threat to public health, safety or welfare or the environment.
2. The proposed roadways and utilities will not cause a violation of NR 140 groundwater quality enforcement standards.
3. The proposed roadways and utilities will not cause a violation of surface water quality standards in chs. NR 102 to 106.
4. The proposed roadways and utilities will not cause a violation of air quality standards contained in chs. NR 400 to 499.
5. The proposed roadways and utilities will not cause a vapor action level in indoor air to be attained or exceeded.

**Recommended Template for Request to Manage Materials
under Wis. Admin. Code § NR 718.12 or NR 718.15**

Form 4400-315 (R 11/20)

Page 6 of 12

D. Describe any procedures that have been established, or methods that will be used, to identify previously undocumented contamination during the completion of this project (such as instrument field screening, visual inspections, etc.). Also describe any contingency procedures that have been established to address unexpected contamination.
Procedures have been established for this project which include every member of the construction team. Observations of the material excavated will be made and soil that is stained or odorous will be stockpiled and sampled prior to disposal.

E. Summarize how the proposed management activities will prevent or minimize adverse environmental impacts and potential threats to human health and welfare, including worker safety, by assessing how all potential exposure and migration pathways of concern, including direct contact exposure, vapor intrusion, ground water, surface water, sediment and any other relevant pathway will be addressed by the proposed management.
The proposed redevelopment - the roadways and paved bike path become part of the cap for the overall site. The potentially contaminated soil will be covered once it is moved. Control measures such careful management by experienced contractor staff and such as using water for dust control will help prevent unwanted spread or dispersion of potential contamination. Many of the areas planned for the work are not within the highly contaminated areas seen during the site investigation as most of the near surface impacts have been mitigated and generally lower concentration of contaminants is present. Vapor intrusion, groundwater, surface water, sediment and any other relevant pathway will not be impacted by the proposed soil movement for the roadway and for the utilities, the soil is being replaced where it was, and will not enter a new pathway for the spread of contamination.

Section 6 - Receiving site or facility information

The following information is necessary for the DNR to review the request for compliance with Wis. Admin. Code §§ NR 718.12 (2) (c) 3. In this section, describe the site or facility receiving the material by addressing the following items. Narrative boxes have a limit of 2500 characters. Please attach additional pages if necessary, clearly labeling the section of the form to which you are responding.

A. Briefly discuss the geology and hydrogeology of the receiving site(s) or facility(ies), including information from any previous remedial investigations, and well logs or well construction records from nearby wells. Please also provide the information requested below, indicating whether the response is based on regional or site-specific information. *
Soil at the site is fill soil, primarily clay soil with some sand, overlaying silty clay, sand or silty sand over clay. The depth to groundwater is approximately 10 feet deep. The site-wide investigation described in the attached materials management plan provides a more detailed description. There are more than 200 boring logs available for the site in the site investigation report previously prepared for this site. None are attached to this form.

Depth to Bedrock (ft. below ground surface):	<u>100</u>	<input checked="" type="radio"/> Regional	<input type="radio"/> Site Specific
Bedrock Type:	<input type="radio"/> Sandstone	<input checked="" type="radio"/> Limestone / Dolomite	<input type="radio"/> Metamorphic / Igneous
High Groundwater Level (ft. below ground surface):	<u>10</u>	<input type="radio"/> Regional	<input checked="" type="radio"/> Site Specific
Groundwater Flow Direction:	<u>East-northeast</u>	<input type="radio"/> Regional	<input checked="" type="radio"/> Site Specific

B. Briefly describe any previous environmental site investigations or remedial actions conducted at the receiving site(s) or facility(ies). Describe the environmental condition of the portion of the receiving site(s) or facility(ies) where material will be placed including what contaminants are present, the environmental sampling conducted in that area, and whether identified contaminant concentrations exceed applicable standards. *
See Table 1 for the investigation and remediation chronology. The materials management plan Appendix A includes a copy of the site investigation results tables, compared to RCLs and Appendix B contains the soil excavation and post-excavation summary tables where the results are compared to RCLs.

C. Describe any environmentally sensitive areas at or near the receiving site(s) or facility(s) where the contaminated material will be managed.
There are no environmentally sensitive areas on the KEP where the soil is to be managed.

**Recommended Template for Request to Manage Materials
under Wis. Admin. Code § NR 718.12 or NR 718.15**

Form 4400-315 (R 11/20)

Page 7 of 12

D. Describe the historic, current and proposed land use of the receiving site(s) or facility(ies) where the contaminated soil or other solid waste will be managed. How are these site(s) or facility(ies) zoned?

The site is currently zoned Light Manufacturing but is soon to be changed to B-6 Kenosha Innovation Neighborhood.

Redevelopment assumes:

1. Redevelopment uses are anticipated to be commercial.
2. The City of Kenosha will required the use of an active vapor intrusion mitigation system for all new buildings.
3. Buildings, pavement, and landscape introduced through redevelopment will provide the final cap, where necessary.
4. Impacted soil and groundwater encountered during site redevelopment will be placed under final cover or disposed off-site.
5. Institutional controls will be used to address residual soil and groundwater impacts that remain after completion of remediation efforts.

E. Identify current uses of all properties adjacent to the receiving site or facility. Check all that apply.

Agricultural	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Industrial	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Recreational	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Residential	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Undeveloped	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Commercial	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Describe "other" property use below:

F. Describe any other features of this property not addressed above that influence the suitability of the receiving site(s) or facility(ies) for the management of the contaminated soil or other solid waste.

The materials are being retained on the site where they are generated.

Section 7 – Locational criteria

The following information is necessary for the DNR to review the request for compliance with Wis. Admin. Code §§ NR 718.12 (1) (c). Indicate if excavated material will be placed in any of the following locations*:

- Within a floodplain.
- Within 100 feet of any wetland or critical habitat area.
- Within 300 feet of any navigable river, stream, lake, pond, or flowage.
- Within 100 feet of any on-site water supply well or 300 feet of any off-site water supply well.
- Within three (3) feet of the high groundwater level.
- At a depth greater than the depth of the original excavation from which the contaminated soil was removed.

If any of the above boxes are checked, an exemption from the indicated criteria must be requested as described below. If none of the above boxes are checked, and the proposed placement of material will not otherwise pose a threat to the public health, safety, or welfare or the environment, the proposed management activities will comply with the locational criteria of Wis. Admin. Code § NR 718.12 (1) (c) and you may skip the following question.

Include an explanation of why granting an exemption to the Wis. Admin. Code § NR 718.12 (1) (c) locational criteria will not cause a threat to public health, safety, or welfare or the environment by assessing how all potential exposure and migration pathways of concern, including direct contact exposure, vapor intrusion, ground water, surface water, sediment and any other relevant pathway will be addressed by the proposed management. Consider the quantity and characteristics of the material being managed, the geologic and hydrogeological characteristics of the receiving site or facility, the unavailability of other environmentally suitable alternatives, and whether the activities will comply with other state and federal regulations including other portions of Wis. Admin. Code chs. NR 700 to NR 754. The water and sewer construction trenches will place excavated soil adjacent to the trench and after the piping is placed with the bedding backfill, the trench spoils will be replaced in approximately the same location from where they originated. In some cases, the soil may be within 3 feet of the water table because that will be where the soil was also generated from.

**Recommended Template for Request to Manage Materials
under Wis. Admin. Code § NR 718.12 or NR 718.15**

Form 4400-315 (R 11/20)

Page 8 of 12

Section 8 – Additional information for non-metallic mine receiving sites or facilities

If the material to be managed is proposed for use in reclaiming a non-metallic mine, the disposal of such a material must be specifically allowed in the mine's reclamation plan. If not, the reclamation plan needs to be modified prior to DNR approving the management of the contaminated soil at the mine. Complete this section if the proposed receiving site or facility is a non-metallic mine.

A. Current depth to groundwater at facility (feet below ground surface): _____

B. Has the facility been dewatered to allow mining? Yes No

If yes, indicate the expected natural groundwater level when dewatering is terminated (feet below ground surface):

C. Is material proposed to be placed within 10 feet of the natural water table? Yes* No

If yes, provide information to justify a variance approval under Wis. Admin. Code ch. NR 503.

D. Include a copy of the reclamation plan indicating the placement of low level contaminated material is acceptable.

E. Describe any design criteria established for the disposal site, include restrictions on material placement, engineered barrier requirements, etc.

Section 9 – Continuing obligations at receiving site or facility

The following information is necessary for the DNR to review the request for compliance with Wis. Admin. Code §§ NR 718.12 (2) (d) and (e). Check the applicable boxes to indicate which continuing obligations will be specifically required to address the material being managed on the receiving site or facility. The associated language will appear in the Wis. Admin. Code ch. NR 718 Approval Letter.

No Continuing Obligations

Residual Soil Contamination:

If contaminated soil that was managed as proposed in the material management plan is excavated in the future, the property owner at the time of excavation will have the following responsibilities per Wis. Admin. Code § NR 725.05 (l) (d):

- determine if contamination is present,
- determine whether the soil is considered solid or hazardous waste; and
- ensure that any storage, is in compliance with applicable statutes and rules.

Excavated contaminated soil may be managed in accordance with Wis. Admin. Code ch. NR 718, with prior DNR approval. In addition, all current and future property owners and occupants of the property and right-of-way holders need to be aware that excavation of the contaminated soil may pose a hazard and special precautions may be necessary to prevent a health threat to humans. A historic fill exemption is required prior to construction of any structures over fill materials.

Depending on site-specific conditions, construction over contaminated soil or groundwater may also result in vapor migration of contaminants into enclosed structures or migration along underground utility lines. The potential for vapor intrusion and means of mitigation should be evaluated when planning any future redevelopment, and measures may need to be taken to ensure the continued protection of public health, safety, welfare and the environment at the site.

Recommended Template for Request to Manage Materials under Wis. Admin. Code § NR 718.12 or NR 718.15

Form 4400-315 (R 11/20)

Page 9 of 12

Maintenance of a cover:

A soil cover/engineered cover/other is proposed to be installed and maintained over contaminated soil. Inspections will be required per Wis. Admin. Code § NR 724.13, and submittal of inspection reports may be required per Wis. Admin. Code § NR 727.05 (1) (b) 3. Certain activities which would disturb the cover or barrier will be prohibited. If the cover is approved for industrial land use, notification of the DNR is required before changing to a non-industrial use, to determine if the cover will be protective for that use per Wis. Admin. Code § NR 727.07 (3). A maintenance plan is attached, which describes the maintenance activities to be required. An updated maintenance plan must be provided to the DNR once the barrier has been constructed if changes are required and must address actual site conditions (Wis. Admin. Code § NR 724.15 (3) (h)). A map is attached which shows the location of the extent of contaminated materials and the extent of the cover.

Use of Industrial Land Use Soil Standards:

Direct contact risk posed by contaminated material managed under this approval was assessed using residual contaminant levels for industrial land use. The DNR must be notified if the property land use will change from industrial use to a non-industrial land use per Wis. Admin. Code § NR 727.07 (3). Additional investigation and remediation may be required prior to the change in land use to ensure the site conditions are protective for the planned land use.

Vapor: Future Actions to Address Vapor Intrusion:

While vapor intrusion does not currently exist, if a building is constructed or reconstructed on this property, or if use of an existing building is changed to a non-industrial use, vapor intrusion may become a concern. The DNR must be notified before construction of a building or changing the use of an existing building to non-industrial use per Wis. Admin. Code § NR 727.07. The use of vapor control technologies or an assessment of the potential for vapor intrusion will be required at that time per Wis. Admin. Code §§ NR 722.15 (2) (e) 4 and 5.

Site specific condition:

Describe the site specific condition:

Section 10 – Figures

Providing figures as part of the material management plan will allow DNR staff to more quickly evaluate the compliance of the request with the requirements of Wis. Admin. Code §§ NR 718.12 (1) and (2) and NR 718.15. The following are recommended figures to be submitted with this request.

The DNR recommends that all maps are drawn to scale not larger than 1 inch equal to 100 feet and labeled with the site or facility name and address. The location of the property and the specific management area should be provided in sufficient detail to allow DNR personnel to inspect these areas in the future. Providing a “cut/fill” map that clearly depicts how much material will be removed or added to different areas of the involved property(ies) and depicting how material will be moved across the site is also highly recommended. Providing cross sections that depict site conditions before and after material management activities is also recommended.

Attach appropriate figures to this form. Use the following checklist to ensure recommended items are included in the attached figures.

- The boundaries of each property involved in the project as well as named and unnamed roads or access points, buildings and other surface features, underground utilities, land uses on adjacent properties, and known and potential sources of hazardous substances.
- The location of wetlands, critical habitat areas, floodplains, surface water bodies, water supply wells, or other possible receptors located near or within the area where material will be managed.
- The lateral extent and depth of planned excavation, grading, or otherwise disturbed areas.
- The lateral extent and thickness of excavated material placement locations.

**Recommended Template for Request to Manage Materials
under Wis. Admin. Code § NR 718.12 or NR 718.15**

Form 4400-315 (R 11/20)

Page 10 of 12

- Soil sample locations at the response action site and receiving site(s) or facility(ies). Depict applicable soil contaminant concentration data and sample depths. Indicate the extent of contamination exceeding a RCL.
- Depth to groundwater.
- The extent of any performance standards (such as a barrier or cap) that will be required at the completion of management activities.

Section 11 - Additional Attachments

The following documents are recommended for inclusion with a Wis. Admin. Code § NR 718.12 or a Wis. Admin. Code § 718.15 request. Indicate which of these documents are included in this request by checking the boxes below.

- A table summarizing the analytical results of all soil/waste samples collected at the generating site or facility that meets the requirements of Wis. Admin. Code § 716.15 (4) (e). Clearly indicate which of these samples were collected from material that is proposed to be managed.
- The analytical package for all samples listed on the above table. The package should include the sample results, chain of custody, sampling methods, and QA/QC data.
- A maintenance plan for any performance standard needed to address the material proposed to be managed. The plan should follow the format found in DNR Form 4400-202, Attachment D.
- A copy of the reclamation plan for the receiving site or facility if it is a nonmetallic mine. Confirm the plan allows for acceptance of contaminated soil by marking relevant plan sections.
- Power of Attorney (if applicable, see Section 12).
- Deed for the property receiving the contaminated material. If a certified survey map or plat map is referenced by this deed then also include those documents.
- Provide a copy of a parcel map depicting the property(ies) boundaries.

**Recommended Template for Request to Manage Materials
under Wis. Admin. Code § NR 718.12 or NR 718.15**

Form 4400-315 (R 11/20)

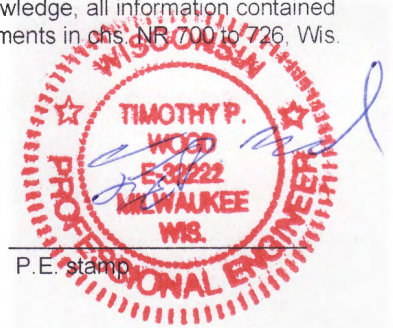
Page 11 of 12

Section 12 - Certification Statements

Wis. Admin. Code ch. NR 712, entitled "Personnel Qualifications for Conducting Environmental Response Actions," establishes minimum standards for experience and professional qualifications for persons who perform certain environmental services. All requests submitted to manage contaminated soil or other solid waste as an interim action or remedial action under Wis. Admin. Code chs. NR 708 or NR 722 must be prepared by, or prepared under, the supervision of a professional engineer per Wis. Admin. Code ch. NR 712. The professional engineer who prepared or supervised this request should complete the following section. This law applies to work conducted under Wis. Admin. Code ch. NR 718, unless specifically exempted.

Per Wis. Admin. Code § NR 712.09 (3) (a), the following certification shall be attached to any submittal that is required to be prepared by, or under the supervision of, a professional engineer under s. NR 712.07 (2), (3) or (5):

"I Timothy P. Wood, 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."



Handwritten signature of Timothy P. Wood in blue ink.

Project Engineer, E-32222-006

Signature, title and P.E. number

P.E. stamp

In addition, if the work certified included investigation or evaluation of groundwater conditions, or groundwater related conclusions or recommendations, Wis. Admin. Code § NR 712.09 (3) (b) requires the following certification shall be attached to any submittal that is required to be prepared or to have its preparation supervised by a certified hydrogeologist under s. NR 712.07 (2), (4) or (5)

"I Lanette Altenbach, 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."

Handwritten signature of Lanette Altenbach in blue ink.

Sr. Hydrogeologist

Signature and title

February 9, 2024

Date

**Recommended Template for Request to Manage Materials
under Wis. Admin. Code § NR 718.12 or NR 718.15**

Form 4400-315 (R 11/20)

Page 12 of 12

Section 13 - Signatures

Owner(s) of receiving site(s) or facility(ies) if different than generating site

Each property owner of receiving site(s) or facility(ies) involved in the management project must provide their signature as part of this request. If one of the owners of the receiving site(s) or facility(ies) is acting on behalf of other owners, a power of attorney form or statement must be signed and attached to this agreement clearly granting the agent the authority to accept the contaminated materials on behalf of all other owners of the receiving site(s) or facility(ies) whose signatures are not included on this agreement.

I understand that by signing this application I certify that I will follow the conditions and limitations required by law and specified in the approval issued to me as owner of the site or facility that will receive the contaminated soil. Further, I certify that the contaminated soil proposed to be managed under this approval will be at a property that meets the definition of "site" or "facility" under Wis. Stats. ch.292 and Wis. Admin. Code chs. NR 700 – 799, and I understand that the material must be managed any time in the future as a solid waste with the department's approval. I understand that this approval will be tracked in the Wisconsin Remediation and Redevelopment Database, and if required, will include maintenance and inspection by me of any continuing obligations, such as maintaining an engineering control or barrier over the contaminated soil, and will also be subject to inspection by the department. I understand that the conditions on my site or facility may be subject to Wis. Stats. ch. 709, Disclosures by Owners of Real Estate. I believe that the legal description for all properties where material will be managed is included with this submittal.

Receiving site or facility address as listed in Section 3F: _____

_____	_____	_____
Print Name	Signature	Date
_____	_____	_____
Print Name	Signature	Date

Mr. Paul Grittner
Hydrogeologist/Project Manager
Department of Natural Resources
Bureau of Remediation and
Redevelopment
141 NW Barstow Street, Room
180
Waukesha, WI 53188

February 9, 2024

Your Reference
WDNR FID 230004500
BRRTS #02-30-000327

NR 718.12(2) Exemption Request for the Kenosha Innovation Neighborhood Infrastructure Construction

Dear Mr. Grittner

The City of Kenosha (City) has planned redevelopment at the former Kenosha Engine Plant (KEP) located at 5555 30th Avenue, Kenosha Wisconsin. AECOM, on behalf of the City, has completed Form 4400-315, NR 718.12 exemption request to place the soil excavated from areas of the planned development into other areas of the redeveloped parcel.

A *Soil and Material Management Plan* (Plan) has been prepared for materials management for this redevelopment activity and is provided as an attachment to the request.


The purpose of this submittal is to formally request an NR 718.12(2) exemption for:

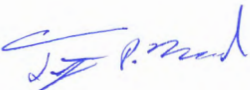
- the replacement of soils excavated from utility trenches back into the trench where they were generated, and
- to grade the soil in the vicinity of the roadway where soil cut to meet planned final grade will be placed under other portions of the roadway that require fill to meet the planned final grade.

Listed at the bottom of this letter are the attachments included with the completed WDNR Form 4400-315. Please note, the amount of data for this site is voluminous and for that reason, the analytical packages for the soil results presented in the *Soil and Material Management Plan* were not included as they were previously submitted to the Department.

Please contact Lanette Altenbach at 414-944-6186 if you have questions about this submittal.

Yours sincerely,


Lanette Altenbach, PG
Senior Hydrogeologist/Project Manager
AECOM
T: 920.944.6186
M: 414-209-2374
E: lanette.altenbach@aecom.com

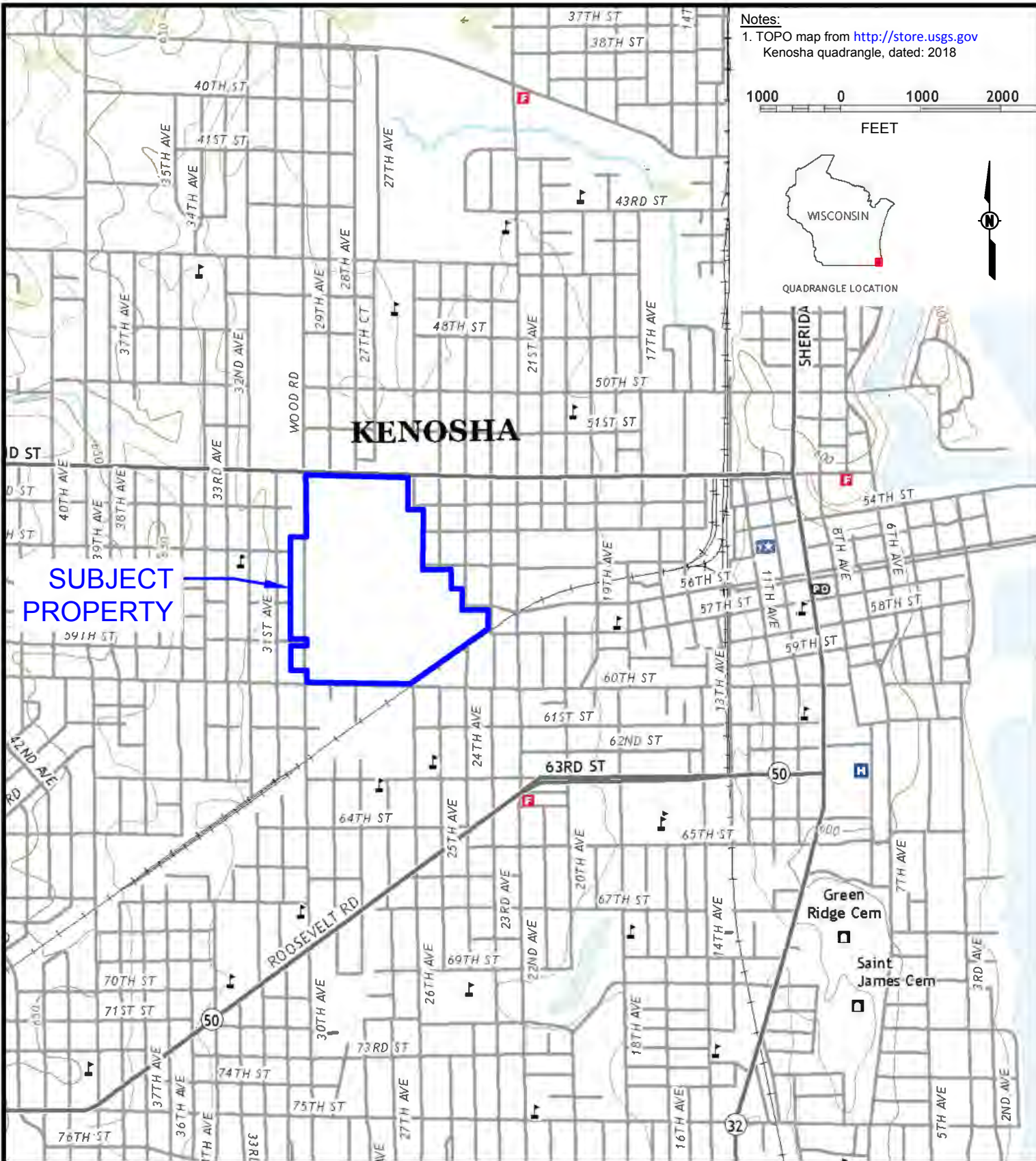

Timothy P. Wood, P.E. (WI)
Project Engineer

AECOM
E: Tim.Wood@aecom.com

enclosures: Figure 1, Site Location Map
Figure 2 KIN Parcel Map
Figure 3 Environmental site Conditions
Figure 4 Proposed Road Layout
Figure 5 Proposed Utility Layout
Figure 6 Soil Sample Locations-North Half
Figure 7 Soil Sample Locations South Half
Grading Plan N&S
KIN Cut & Fill Map
Table 1, former Kenosha Engine Plant, Chronology of Investigation and Remediation
Materials Management Plan with Figures and Tables in Appendices

cc: Greg Boldt, PE, City Engineer/Deputy Director of Public Works, City of Kenosha

File: \\USM\K1\FS001\proj\Drawings\Kenosha\Kenosha_Engine_Plant_Site_Location.dwg; USER: ENGELHARDT, SARAH; PLOTTED: January 11, 2019 - 3:04 PM



**SUBJECT
PROPERTY**

Notes:
 1. TOPO map from <http://store.usgs.gov>
 Kenosha quadrangle, dated: 2018



QUADRANGLE LOCATION



1555 RiverCenter Dr
 Milwaukee, WI 53212
 414.944.6080
 www.aecom.com
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**SITE LOCATION (USGS TOPOGRAPHIC MAP)
 KENOSHA ENGINE PLANT
 CITY OF KENOSHA
 KENOSHA, WISCONSIN**

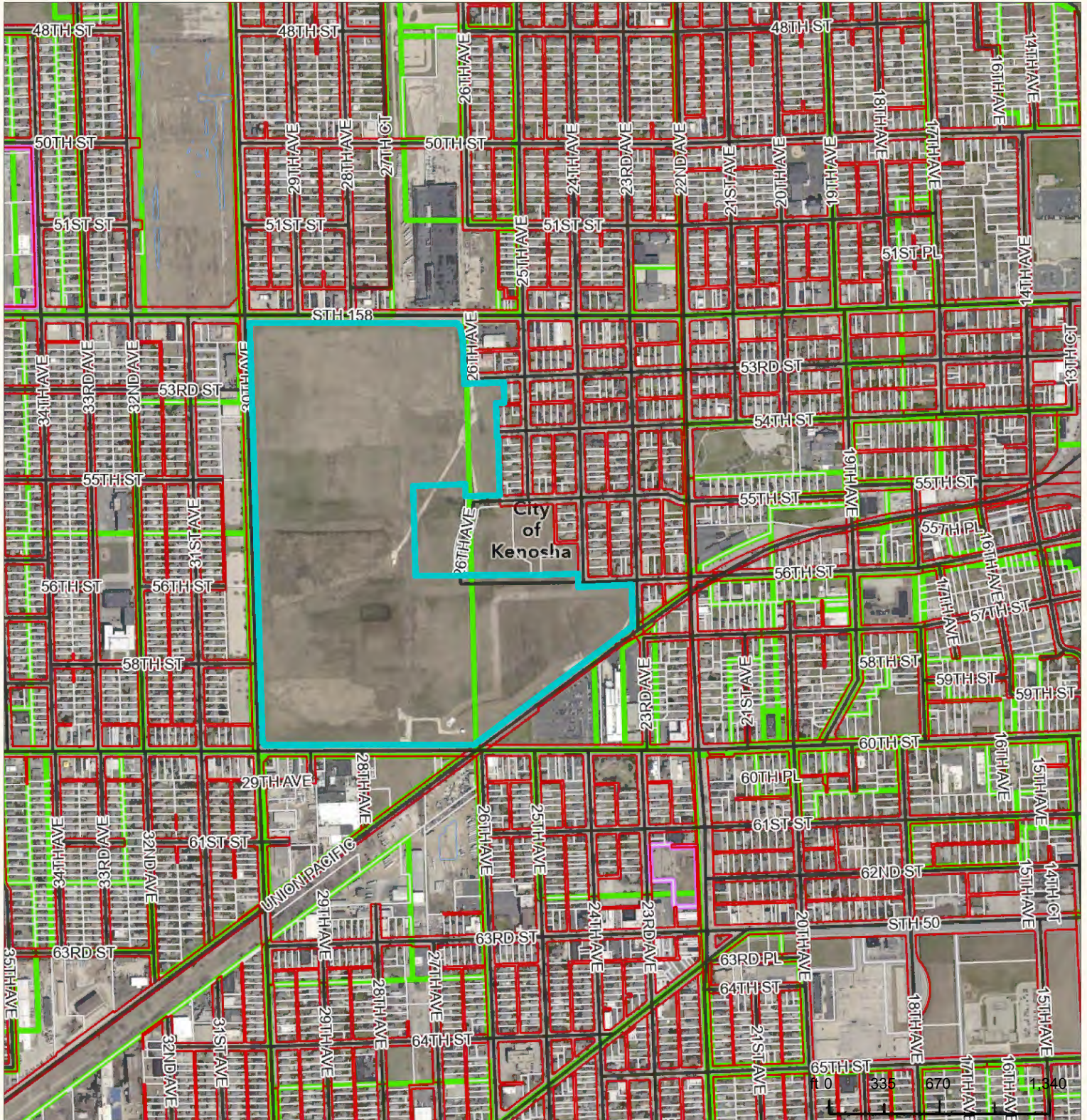
Drawn :	SAE 12/3/2018
Checked:	KC 12/3/2018
Approved:	LLA 12/3/2018
PROJECT NUMBER	60646104
FIGURE NUMBER	1

Kenosha Innovation Neighborhood Parcel #09-222-36-430-021



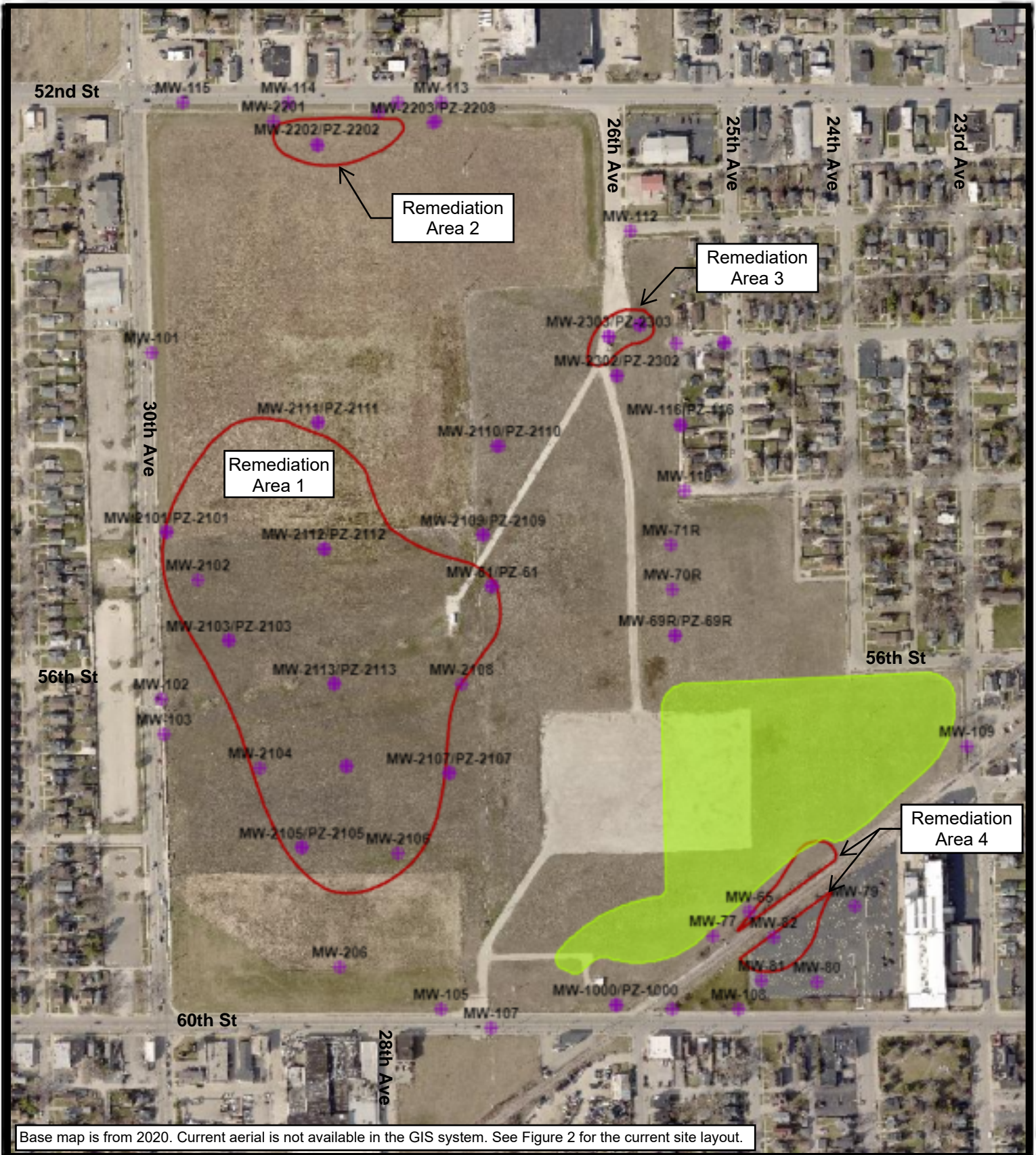
1:9,999
1" = 833'

Date Printed: 1/22/2024



DISCLAIMER This map is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, data and information located in various state, county and municipal offices and other sources affecting the area shown and is to be used for reference purposes only. Kenosha County is not responsible for any inaccuracies herein contained. If discrepancies are found, please contact Kenosha County.

FIGURE 2



- Key:**
-  Monitoring Wells/ Piezometers
 -  Groundwater Remediation Areas
 -  Current Dry Stormwater Pond

AECOM
 Milwaukee Office
 1555 RiverCenter Dr
 Milwaukee, WI
 414.944.6080

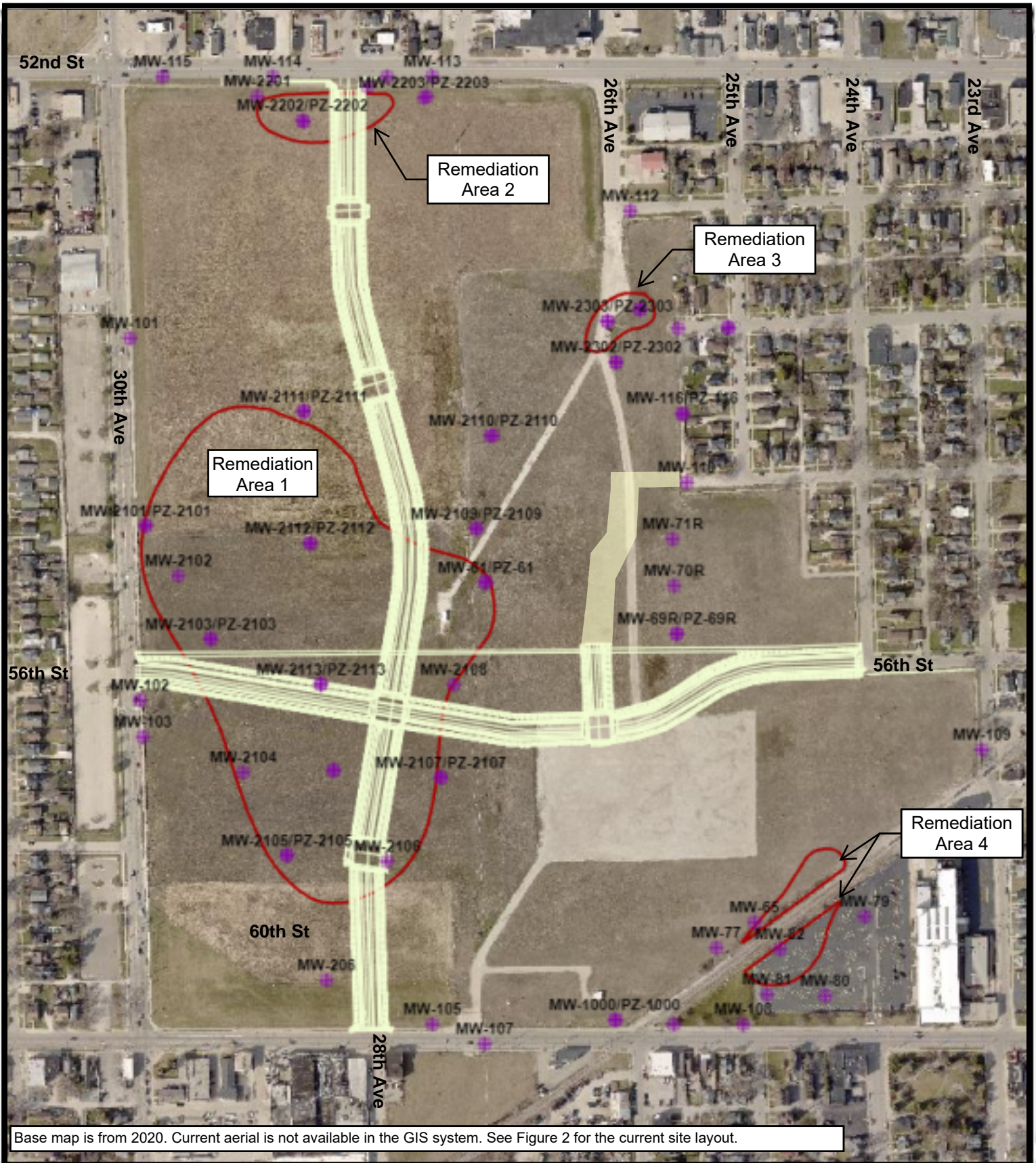
KENOSHA INNOVATION NEIGHBORHOOD
 CITY OF KENOSHA
 KENOSHA, WISCONSIN

SITE ENVIRONMENTAL CONDITIONS



Project Number: 60482705
 Drawn By: CAK
 Date: 6/9/2022

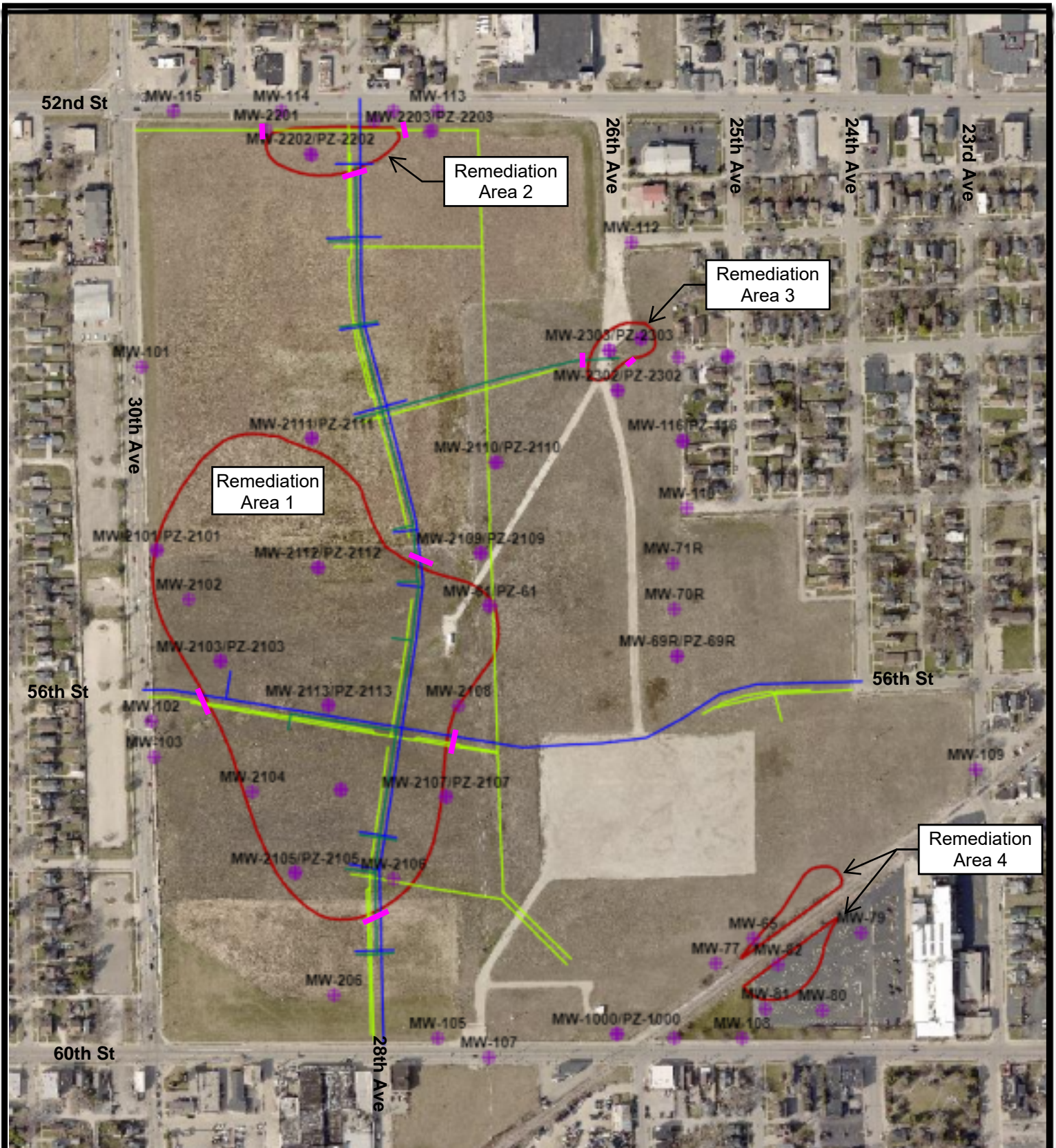
Figure 3









Base map is from 2020. Current aerial is not available in the GIS system. See Figure 2 for the current site layout.

Key: Proposed Roadway Monitoring Wells/ Piezometers Groundwater Remediation Areas	AECOM Milwaukee Office 1555 RiverCenter Dr Milwaukee, WI 414.944.6080	KENOSHA INNOVATION NEIGHBORHOOD CITY OF KENOSHA KENOSHA, WISCONSIN
	PROPOSED ROAD LAYOUT WITH ENVIRONMENTAL CONDITIONS	
		Project Number: 60482705 Drawn By: CAK Date: 6/9/2022


Figure 4



Base map is from 2020. Current aerial is not available in the GIS system. See Figure 2 for the current site layout.

Key:	
	Proposed Storm Sewer
	Proposed Sanitary Sewer
	Proposed Water Line
	Clay Plug Location
	Monitoring Wells/ Piezometers
	Groundwater Remediation Areas

AECOM
 Milwaukee Office
 1555 RiverCenter Dr
 Milwaukee, WI
 414.944.6080

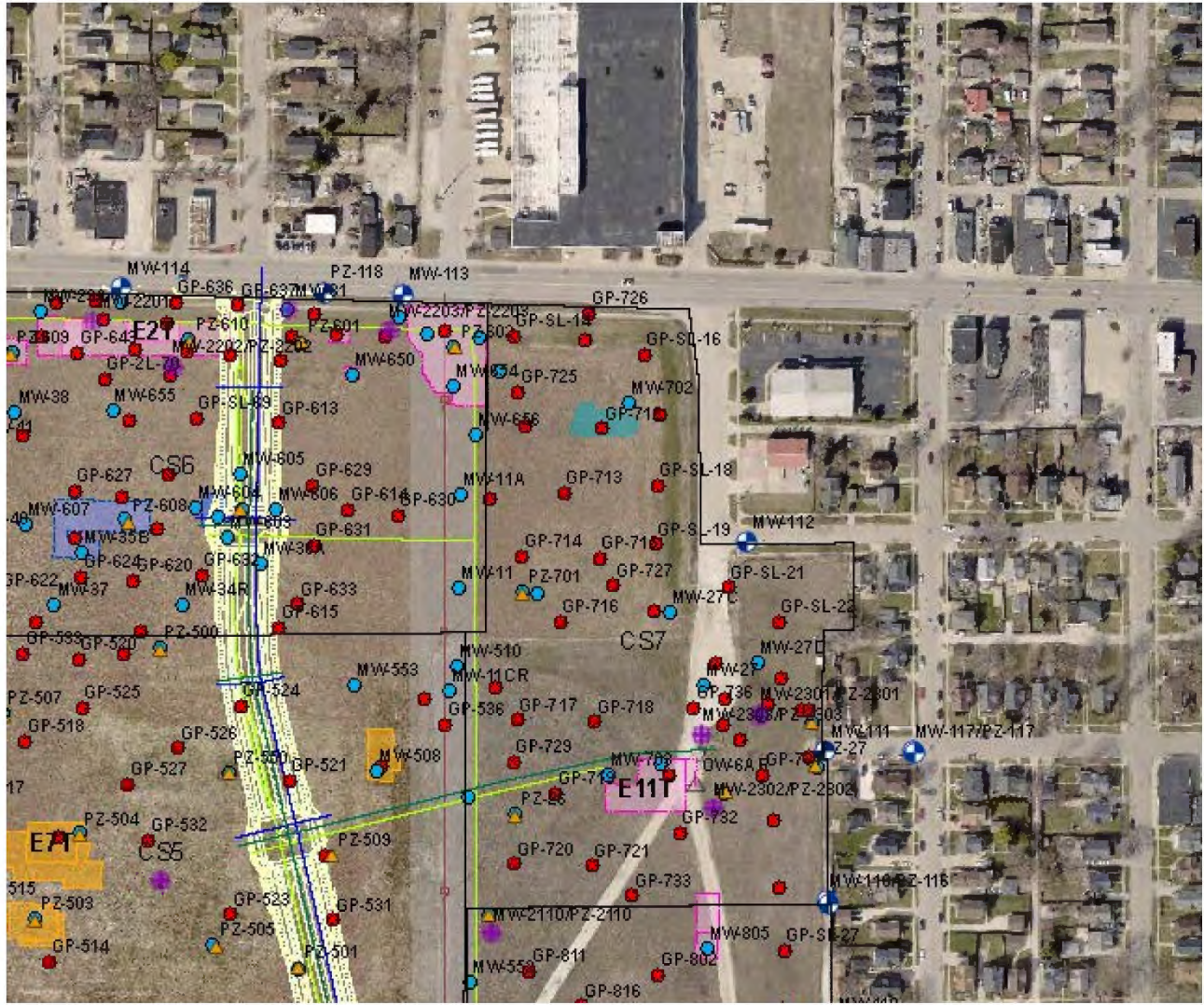


KENOSHA INNOVATION NEIGHBORHOOD
 CITY OF KENOSHA
 KENOSHA, WISCONSIN

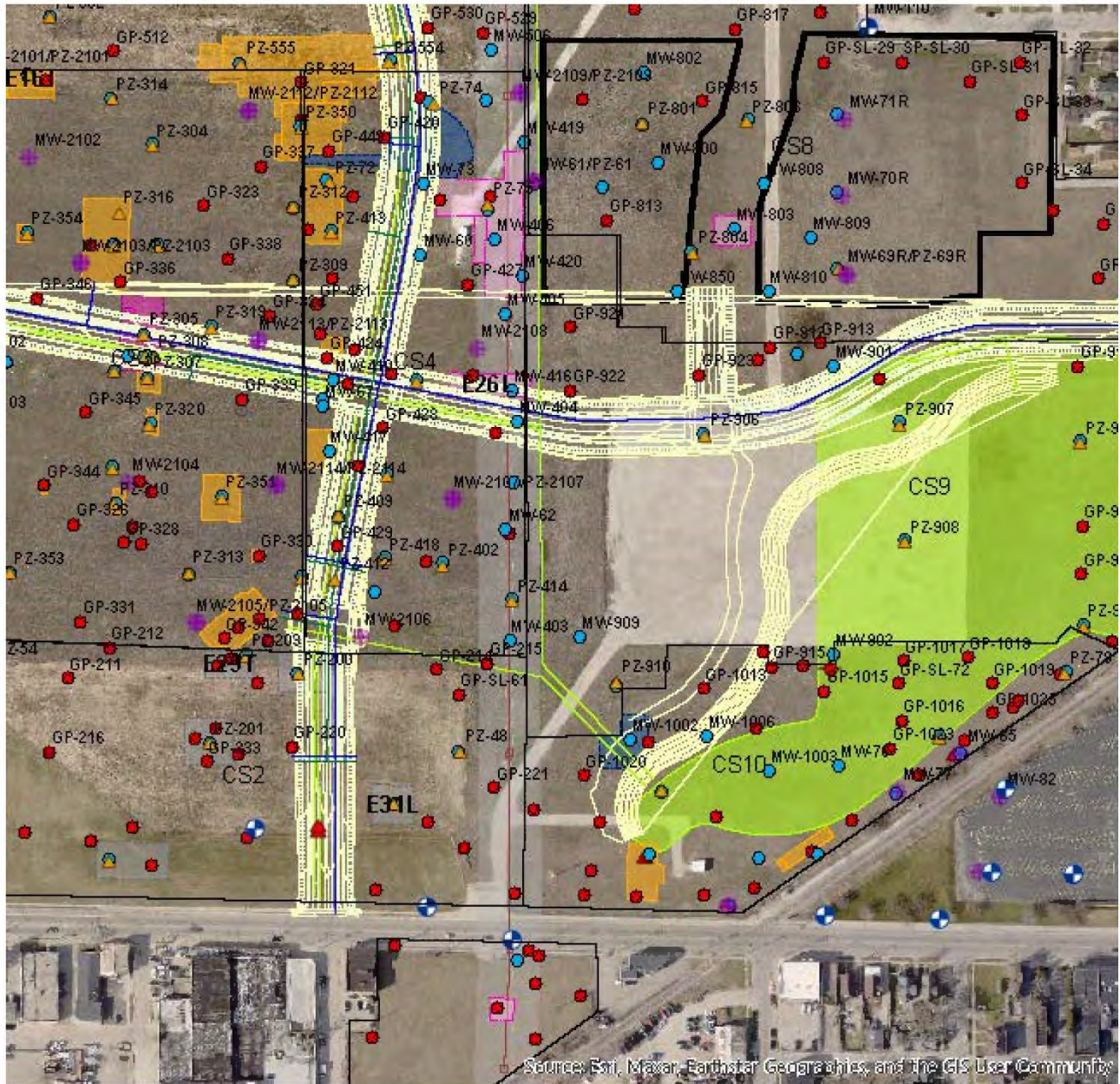
PROPOSED UTILITY LAYOUT WITH
 ENVIRONMENTAL CONDITIONS

Project Number: 60482705	Drawn By: CAK	Date: 6/9/2022
-----------------------------	------------------	-------------------

Figure 5



Kenosha Innovation Neighborhood	<p>SOIL SAMPLE LOCATIONS & PLANNED REDEVELOPMENT – NORTH HALF KENOSHA INNOVATION NEIGHBORHOOD KENOSHA, WISCONSIN</p>	<p>AECOM 1555 N. RiverCenter Dr., Suite 214 Milwaukee, WI 53212 414-944-6080 www.aecom.com Copyright©2012, By: AECOM</p>
City of Kenosha		
Project 60677460		
January 23, 2024		
		Figure 6



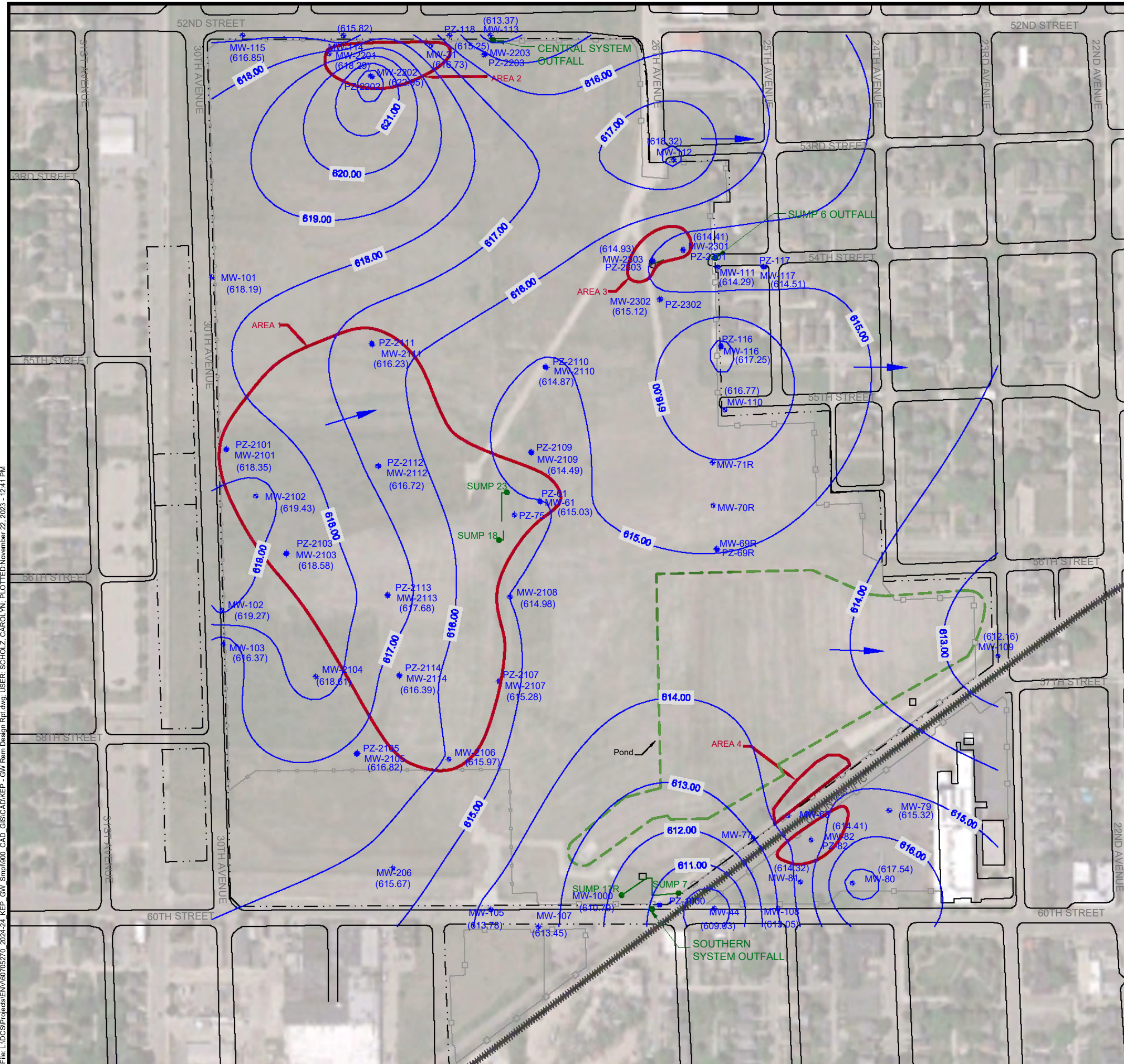
Kenosha Innovation Neighborhood
City of Kenosha
Project 60677460
January 23, 2024

SOIL SAMPLE LOCATIONS & PLANNED REDEVELOPMENT – SOUTH HALF KENOSHA INNOVATION NEIGHBORHOOD KENOSHA, WISCONSIN

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 Milwaukee, WI 53212
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Figure 7

File: L:\DCS\Projects\EN\60705270_2024-24 KEP_GW_Smpl\1000 CAD_GIS\CAD\KEP - GW Rem Design Plot.dwg USER: SCHOLZ, CAROLYN PLOTTED: November 22, 2023 - 12:41 PM



LEGEND

- APPROXIMATE SITE BOUNDARY
- ++++ RAILROAD
- EXISTING FENCE
- SUMPS AND SANITARY OUTFALLS
- SUMP UTILITY LINES
- ⊕ MONITORING WELLS AND PIEZOMETERS
- REMEDIAL TREATMENT AREAS
- (614.93) GROUNDWATER ELEVATIONS
- 615.00 — GROUNDWATER CONTOUR (INTERVAL AT 1.0 FT.)
- GROUNDWATER FLOW DIRECTION

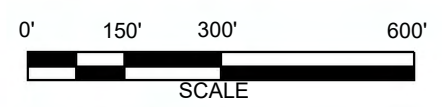
NOTES

1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH PRO, IMAGE DATED 5/28/2021; DOWNLOADED ON 8/30/2021.
2. BORDER DISCONTINUITIES ARE DUE TO ANGLE OF 2018 AERIAL.



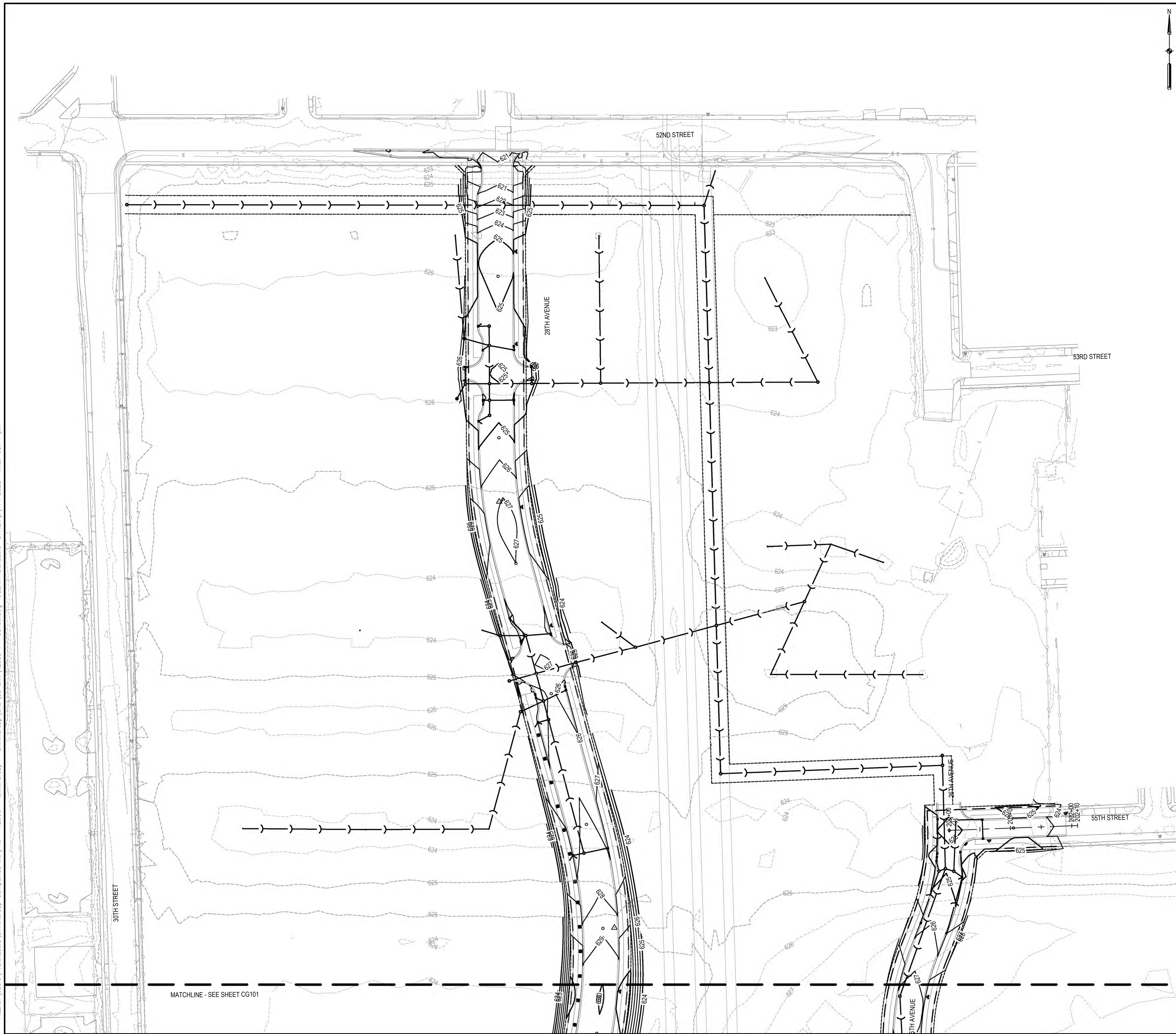
1555 RiverCenter Dr
 Milwaukee, WI 53212
 414.944.6080
 www.aecom.com
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GROUNDWATER ELEVATIONS CONTOUR MAP (MONITORING WELLS)
 OCTOBER 2023
 KENOSHA ENGINE PLANT
 CITY OF KENOSHA
 KENOSHA, WISCONSIN



Drawn:	CAS 1/27/2023
Checked:	LLA 11/27/2023
Approved:	LLA 11/27/2023
PROJECT NUMBER	60705270
FIGURE NUMBER	1

FILE:C:\Users\yvvalenzuela\SmithGroup Companies Inc\PRJ - 12800 - SmithGroup - SmithGroup\CAD 05 Civil\12800-01-CG100.dwg USER:yvvalenzuela DATE: Apr, 14, 2023 TIME: 03:14 pm



SHEET NOTES

- SEE PLAN AND PROFILE SHEETS FOR PROPOSED ROAD AND UTILITY LAYOUT.

**KENOSHA
INNOVATION
NEIGHBORHOOD
PHASE 1**

KENOSHA, WI

Owner:

CITY OF KENOSHA

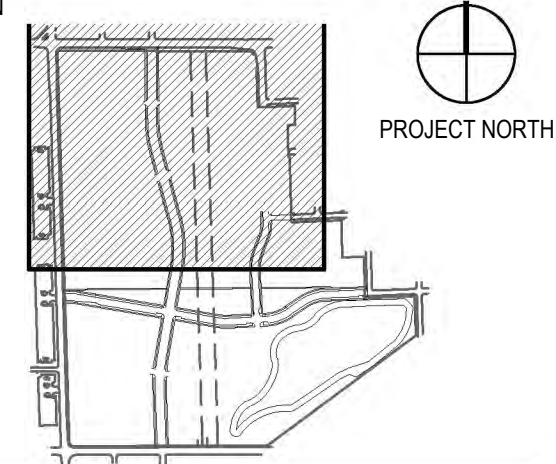
SMITHGROUP

233 NORTH WATER STREET
SUITE 502
MILWAUKEE, WI 53202
414.615.9570
www.smithgroup.com

ISSUED FOR	REV	DATE
REVIEW		12.16.22
ISSUED FOR REVIEW		02.10.23
ISSUED FOR REVIEW		04.14.23

SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE
**OVERALL SITE GRADING
AND DRAINAGE PLAN NORTH**



SCALE:

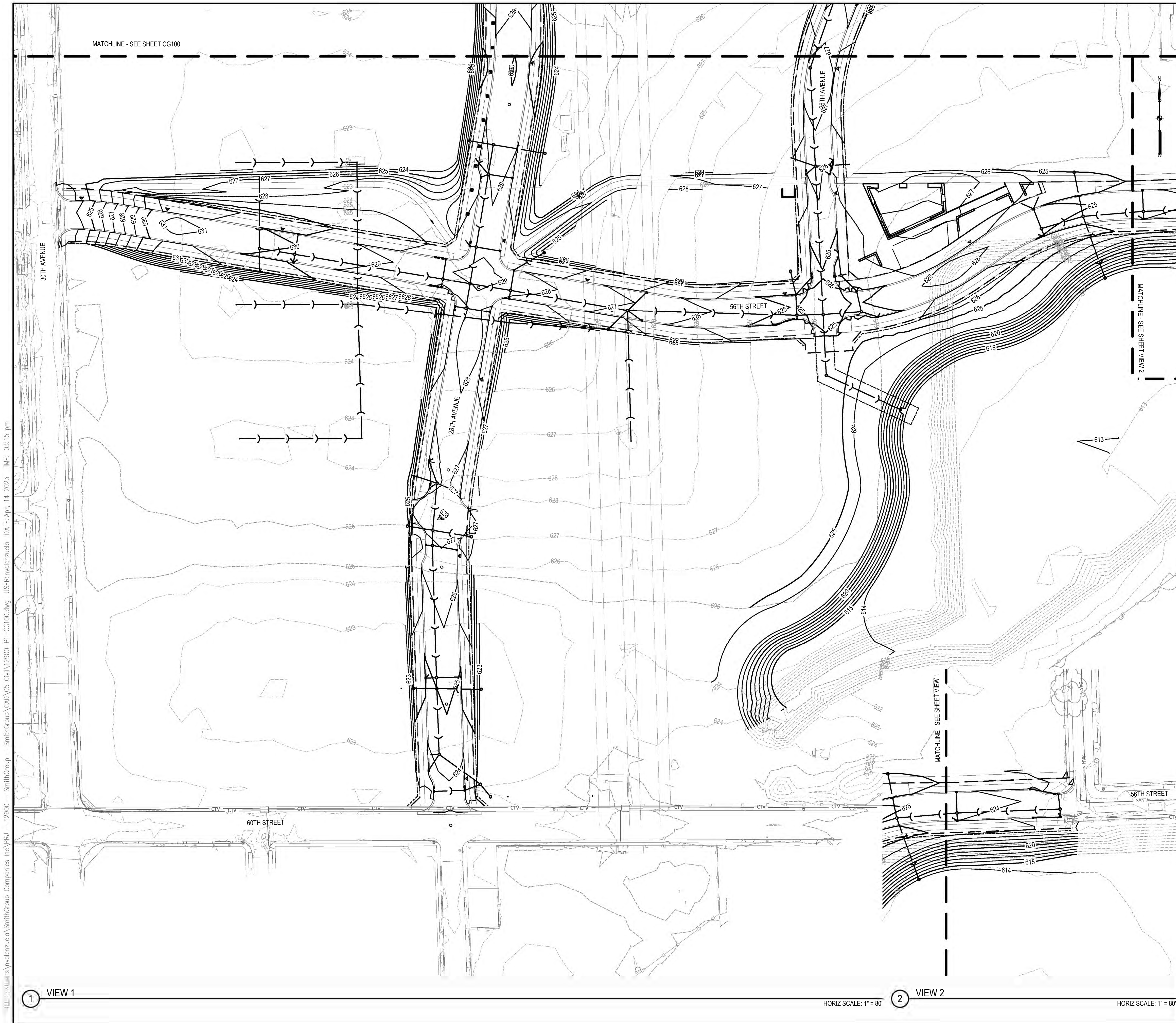
SCALE 12900

PROJECT NUMBER

CG100

DRAWING NUMBER

MATCHLINE - SEE SHEET CG101



SHEET NOTES

- SEE PLAN AND PROFILE SHEETS FOR PROPOSED ROAD AND UTILITY LAYOUT.

**KENOSHA
INNOVATION
NEIGHBORHOOD
PHASE 1**

KENOSHA, WI

Owner:
CITY OF KENOSHA

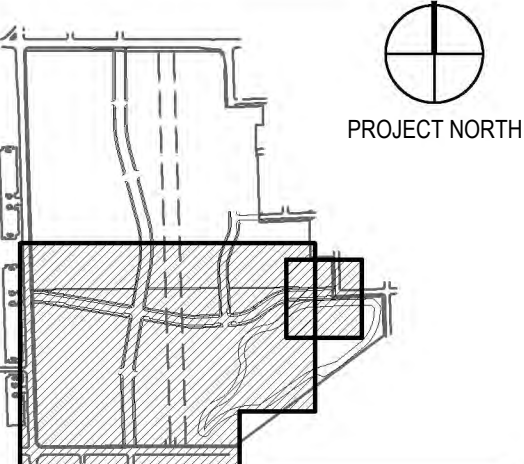
SMITHGROUP

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SUITE 502
MILWAUKEE, WI 53202
414.615.9570
www.smithgroup.com

ISSUED FOR	REV	DATE
REVIEW		12.16.22
ISSUED FOR REVIEW		02.10.23
ISSUED FOR REVIEW		04.14.23

SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE
**OVERALL GRADING AND
DRAINAGE PLAN SOUTH**



SCALE:

SCALE: 12900

PROJECT NUMBER

CG101

DRAWING NUMBER

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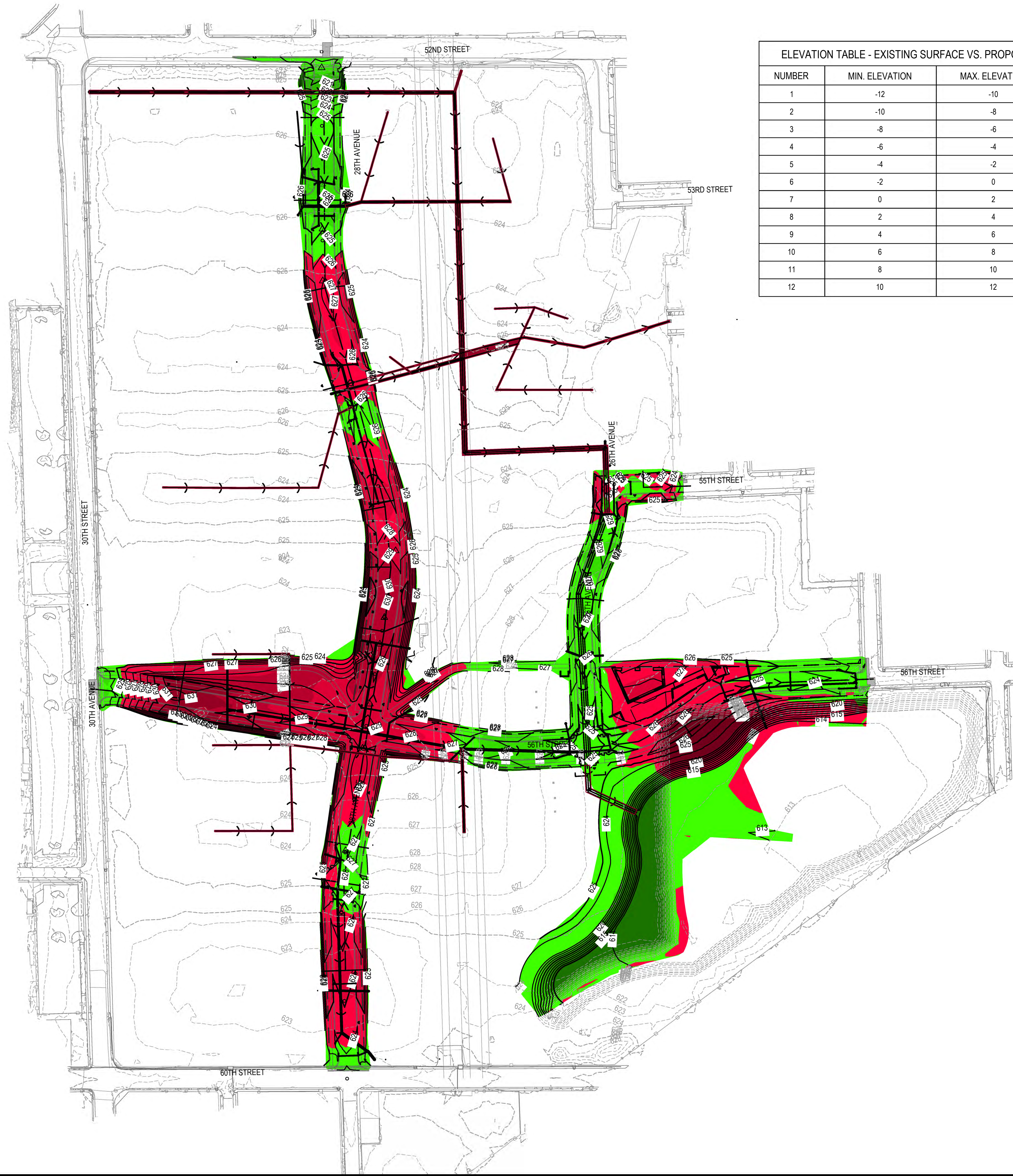
1 VIEW 1

2 VIEW 2

HORIZ SCALE: 1" = 80'

HORIZ SCALE: 1" = 80'

FILE: C:\Users\dushman\SmithGroup Companies Inc\PRJ - 12900 - SmithGroup - SmithGroup\CAD\05 Civil\STUDIES\2024-0103 CUT FILL EXHIBIT\2900-P1-06100.dwg USER: dushman DATE: Jan, 05 2024 TIME: 09:59 am



ELEVATION TABLE - EXISTING SURFACE VS. PROPOSED SURFACE			
NUMBER	MIN. ELEVATION	MAX. ELEVATION	COLOR
1	-12	-10	Dark Green
2	-10	-8	Green
3	-8	-6	Light Green
4	-6	-4	Yellow-Green
5	-4	-2	Yellow
6	-2	0	Light Yellow
7	0	2	Orange
8	2	4	Red-Orange
9	4	6	Red
10	6	8	Dark Red
11	8	10	Brown
12	10	12	Dark Brown

SHEET NOTES

- THIS EXHIBIT IS FOR REFERENCE PURPOSES TO CONVEY GENERAL LOCATIONS OF CUT AND FILL AND SHALL NOT BE USED FOR EARTHWORK CALCULATIONS.
- THIS EXHIBIT IS NOT PART OF THE CONTRACT DOCUMENTS AND SHALL NOT BE RELIED UPON BY THE CONTRACTOR.
- ASSUMPTIONS FOR EXCAVATION VOLUME CALCULATIONS INCLUDE:
 - EXISTING SURFACE TO BE STRIPPED OF 4" TOPSOIL
 - ROADWAY PROPOSED GRADE IS TO ROAD SUBGRADE

EXCAVATION COMMON (ENTIRE SITE)	
	CY
CUT	69397
FILL	48781
NET	20616
GRANT QUALIFYING	55145
NON-GRANT QUALIFYING	14252

BREAKDOWN	
CUT	(CY)
EX SURFACE VS PROPOSED SURFACE	11870
UTILITY TRENCH BACKFILL	32431
POND IMPROVEMENTS	25096
FILL	(CY)
EX SURFACE VS PROPOSED SURFACE	42137
POND IMPROVEMENTS	6644

KENOSHA INNOVATION NEIGHBORHOOD PHASE 1

KENOSHA, WI

Owner:
CITY OF KENOSHA

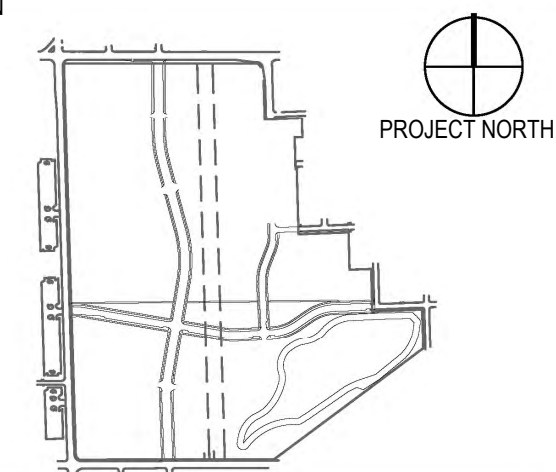
SMITHGROUP

233 NORTH WATER STREET
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www.smithgroup.com

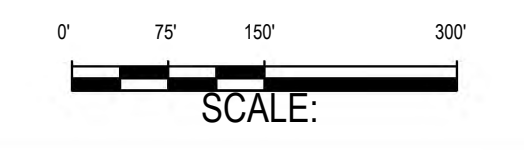
ISSUED FOR	REV	DATE

SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE
GRADING EXHIBIT - CUT/FILL SUMMARY



SCALE: _____ 12900

PROJECT NUMBER: _____

DRAWING NUMBER: _____

Table 1

Investigation & Remediation Chronology for the former Kenosha Engine Plant

Year	Activity
2009	Chrysler Corporation declares bankruptcy and indicates to the bankruptcy court that the Kenosha Engine Plant (KEP) will not be retained as part of post-bankruptcy emergence.
2010	Manufacturing operations were discontinued. Old Carco LLC (formerly known as Chrysler LLC) filed for bankruptcy to liquidate the property.
2011-2013	<p>Old Carco Liquidation Trust was established to oversee the removal of the equipment and salvage of the buildings as a means to return some of the investment at the property to the lein-holders. The liquidation trust was known as Old Carco and administered by a single representative from Capstone Advisory Group, LLC. A remediation trust fund was established by the bankruptcy court to address environmental contamination at the former KEP.</p> <p>Equipment was auctioned and removed by the winning bidder. The raze of the buildings was auctioned to the highest bidder.</p> <p>Site access during this period was controlled and limited by the Trust.</p>
2011	A Phase I Environmental Site Assessment (ESA) was completed for the former KEP. A site history and recognized environmental conditions were identified across the property included as the former KEP.
2012	Off-site investigations were conducted around the perimeter of the KEP and a vapor intrusion evaluation was conducted in the residential area east of the KEP.
2012	An interim investigation of the soil contained in berms forming the perimeter of the KEP inside the fenced boundary was conducted.
2012	The former KEP was subdivided into 12 separate parcels or Chrysler sites to aid in the further evaluation of the overall site. Phase II Environmental Site Assessments were conducted on a per-parcel basis.
2012	Site-wide sewer inspection and sampling was conducted.
2012	Five underground storage tanks were removed from the center of the KEP and additional soil removal was completed in the area surrounding the USTs.
2013	Evaluated a former steam tunnel under 60 th Street from water tank parcel on the south side of 60 th Street to the north side of 60 th Street into the KEP property.
2014	In February 2014, the former KEP property was abandoned and the City of Kenosha took possession of the property.
2014-2021	Groundwater extraction systems were reviewed and AECOM began operation and maintenance of the systems for the City of Kenosha. Operations of the systems continued until groundwater remediation began in 2021.
2014	Groundwater levels evaluated, work plan for site investigation prepared and submitted for WDNR review.
2014-2015	KEP site-wide investigation was completed in general conformance with Wisconsin Administrative Code (WAC) § NR716. Site Investigation Report was issued on February 24, 2015
2015	<p>Interim remedial activities were conducted:</p> <ol style="list-style-type: none"> 1) Soil impacted with hazardous levels of lead was removed from under Building 53. 2) Petroleum contaminated soil was removed from the northwest area of the site (CS6) which resulted in the removal of two groundwater recovery systems because they were no longer necessary, the impact to groundwater was removed. 3) Petroleum contaminated soil was removed from the south side of former Building 70.
2015	A Remedial Action Options Report (April 2015) was prepared in general conformance with WAC § NR722 and submitted to the WDNR. The selected remedial options were approved by WDNR on June 18, 2015.
2015	A Remedial Design Report (Soil) was completed in general conformance with WAC § NR 724 and submitted to the WDNR in June 2015.
2015	Plans and specifications for soil remediation of the southwest 8-acres of the KEP (CS2) were prepared and the project was publicly bid. Soil remediation was conducted from July to October of 2015. The soil remediation is documented in the CS2 Remedial Action Documentation Report – Kenosha Engine Plant dated February 2016.
2015	A work plan for a pilot test to evaluate in-situ groundwater treatment methods was submitted to the WDNR.
2015	The Urban Land Institute Advisory Services conducted a study and presented a Site Redevelopment plan for the former KEP.

Table 1**Investigation & Remediation Chronology for the former Kenosha Engine Plant**

Year	Activity
2015	Additional storm and sanitary sewer testing was conducted.
2015	Former concrete pads for ground-level electrical transformers were tested for PCBs. PCBs were detected in only one of the seven pads present at the KEP.
2016	Plans and specifications were prepared for site-wide soil remediation. The plans indicated the soil remediation would be conducted by CS-area. The soil remediation was publicly bid in August 2016.
2016	A Soil and Material Management Plan was prepared and submitted to the WDNR in March 2016 and revised in September 2016.
2016	An NR 718.12(2) Exemption Request was submitted to the WDNR on September 15, 2016 for the reuse of berm soils to fill soil excavations that occurred as part of soil remediation.
2016	The soil remediation (and submittals associated with soil remediation) were approved in a letter from the WDNR dated September 16, 2016. Final approval of the Soil & Materials Management Plan and the NR 718 exemption request was provided in a WDNR letter dated October 7, 2016. The City of Kenosha Common Council awarded the work to Oakes & Son on October 3, 2016 and the contractor mobilized to the site the week of October 10, 2016. Work continued through 2017 (see below).
2016	A response to EPA comments on the work plan for a groundwater pilot test was submitted in July 2016 and the Groundwater Pilot Test Work Plan was approved on August 22, 2016. The pilot tests were publicly bid and the projects awarded. Injection exemptions were granted on December 2, 2016. ISCO injections were completed in December 2016 with post-injection monitoring occurring in 2017.
2017	ISCO post-treatment monitoring occurred in January and March 2017. The results of the ISCO pilot test was submitted to the WDNR in a report titled In-Situ Chemical Oxidation Pilot Test Documentation Report dated March, 2018.
2017-2018	ERD Pilot testing injection were completed in March 2017 and post treatment monitoring occurred quarterly through 2017 to March 2018.
2018	Remedial Action Documentation Report dated July 16, 2018 was submitted to WDNR. This was Phase I for soil remediation-included specific excavation areas as well as some general grading.
2018	Enhanced Reductive Dechlorination Pilot Test Documentation Report dated October 2, 2018 was submitted to WDNR.
2018	Plans and specifications for sitewide soil remediation Phase II were prepared and the work was publicly bid in July 2018. The contract was awarded to Michels by the City of Kenosha Common Council on July 30, 2018. The contractor began work in September 2018 and finished in July 2019. At the completion of the Phase II Soil Remediation the site was graded, covered with topsoil and seeded.
2019	Remedial Design Report (Groundwater) was completed in general conformance with WAC § NR 724 and submitted to the WDNR in July 2019. The report was revised and resubmitted in December 2019. The Remedial Design Report for groundwater was conditionally approved on February 12, 2020.
2020	KEP Sitewide Groundwater Remediation Technical Specifications were finalized in August 2020. The remedial work was publicly bid with proposals for remediation due on August 26, 2020. Bids were received and the contract was awarded to Regenesi Bioremediation Products, Inc.
2021	The groundwater remediation contract was executed on March 10 2021 to Regenesi. Regenesi proceeded to collect pre-design data in order to prepare a work plan to submit for a Temporary Injection Exemption. The request for an Injection exemption was submitted to the WDNR on June 25, 2021. The injection exemption was granted on August 31, 2021. Regenesi mobilized to the site on October 6, 2021, took delivery of injection products and began utility clearance activities at the four treatment areas.
2022	Each treatment area was completed and three sample events were conducted at 30-day intervals after treatment. Area 1 was the final area treated and treatment was completed in mid-January 2022. The final 90-day post treatment sample for Area 1 was collected at the end of April 2022.
2023	Quarterly groundwater monitoring was completed at each of the four treatment areas and on a semi-annual basis for the wells around the perimeter of the site.

Soil Management Plan

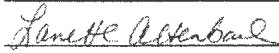
Kenosha Innovation Neighborhood Infrastructure Construction and
the Kenosha Innovation Center
5555 30th Avenue, Kenosha, Wisconsin

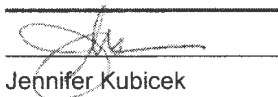
City of Kenosha

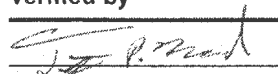
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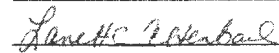
February 12, 2024

Quality information

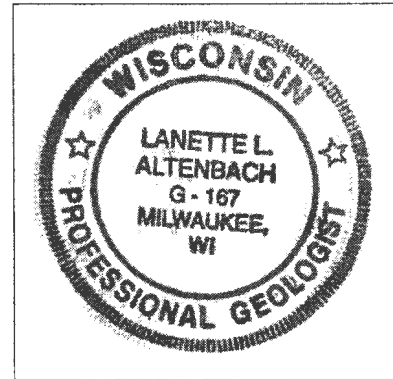
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In conformance with NR 712.09 submittal certification requirements:
 "I, Lanette Altenbach, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of 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."




 Reviewed By: Lanette Altenbach, P.G.
 Senior Hydrogeologist

"I, Timothy P. Wood, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E8, 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."




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Table of Contents

List of Acronyms	ii
1. Introduction.....	1
1.1 Contact Information.....	1
1.2 Site Location and Description.....	1
2. Project Background	3
2.1 Site Investigation, Interim Actions and Soil Remediation.....	3
2.2 Groundwater Corrective Action Design & Implementation.....	4
2.3 Groundwater Remediation	4
3. Geology.....	5
3.1 Hydrogeology	5
4. Redevelopment Overview.....	6
4.1 Infrastructure Redevelopment.....	6
4.2 Phase I Redevelopment Schedule	6
4.3 Kenosha Innovation Center.....	6
5. Material Handling.....	7
5.1 Soil.....	7
5.1.1 Infrastructure Soil.....	7
5.1.2 KIC Soil	7
5.1.3 Waste Characterization.....	8
5.1.4 Excavation Dewatering/Contact Water Management.....	8
6. Soil Placement.....	9
6.1 Off-Site Soil Material Sources	9
6.2 Topsoil	10
7. References.....	11

Figures

Figure 1	Site Location
Figure 2	Site Current Site Layout
Figure 3	Site Environmental Conditions
Figure 4	Proposed Site Plans
Figure 5	Groundwater Elevation Contour Map (Monitoring Wells), October 2023
Figure 6	Groundwater Elevation Contour Map (Piezometers), October 2023

Tables

Table 1 Investigation & Remediation Chronology for the former Kenosha Engine Plant

List of Appendices

Appendix A Site Investigation Sample Locations and Results Tables
Appendix B Soil Excavation Location Figures and Post-Excavation Results Tables
Appendix C Infrastructure Layout, Utility Drawings, Cut/Fill Map
Appendix D Proposed Layout KIC and Cut/Fill Map

List of Acronyms

AECOM	AECOM Technical Services, Inc.
BGS	Below ground surface
ERD	Enhanced Reductive Dechlorination
ISCO	In Situ Chemical Oxidation
KEP	Kenosha Engine Plant
KIC	Kenosha Innovation Center
KIN	Kenosha Innovation Neighborhood
PAHs	Polycyclic aromatic hydrocarbons-compounds commonly associated with petroleum fluids
PCBs	polychlorinated biphenyls
RADR	Remedial Action Documentation Report
RDR	Remedial Design Report
RAOR	Remedial Action Options Report
RCLs	Residual Contaminant Levels
RDR	Remedial Design Report
TCLP	Toxicity Characteristic Leaching Procedure
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOCs	volatile organic compounds
WAC	Wisconsin Administrative Code
WDNR	Wisconsin Department of Natural Resources

1. Introduction

AECOM Technical Services, Inc. (AECOM) has prepared this Soil and Material Management Plan for use during infrastructure redevelopment and construction of the Kenosha Innovation Center at the former Kenosha Engine Plant (KEP) site. This plan will be used to assist in the management of soils excavated as part of redevelopment for reuse on-site. This plan was prepared to meet Wisconsin Administrative Code (WAC) NR 718 requirements and current Wisconsin Department of Natural Resources (WDNR) guidance (*Management of Contaminated Soil and Other Solid Wastes, Wis. Admin. Code §§ NR 718.12 and NR 718.15, RR-060 dated April 2017*) and is in general conformance with the *Remedial Action Options Report, (RAOR) dated April 2015* which was approved by the WDNR on June 18, 2015 and the *Remedial Design Report (Soil) [Soil RDR] dated June 2015*.

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Eilyn Subak, Electrical and Environmental

Infrastructure Prime Contractor

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Jeff Blasczyk, Project Manger

Kenosha Innovation Center

Designer: Epstein Uhen Architects

Prime Contractor: Miron Construction

1.2 Site Location and Description

The KEP is located in the southeast ¼ of Section 36, Township 2 North, Range 22 East (Figure 1). The KEP includes approximately 100 acres of land and is located at 5555 - 30th Avenue in the city of Kenosha, Kenosha County, Wisconsin. The property is currently vacant; however, three groundwater treatment systems are housed in small treatment buildings that include Sump 6 (northeast corner), Central (Sumps 18 and 23) and Southern (Sumps 7 and 17R), but operations have been temporarily suspended during in-situ groundwater remediation. The site is relatively level and soil remediation (select areas of vadose zone excavation) has been completed. The remaining surface paving has been removed and the site

was graded to ensure proper drainage on site with a temporary vegetated cap on the site until redevelopment occurs. The KEP site is enclosed by chain-link fencing.

The City of Kenosha will redevelop the subject property as a mixed-use innovation neighborhood called the Kenosha Innovation Neighborhood (KIN). Redevelopment will include the following:

- Connect the street and avenue grid consistent through Kenosha with 28th Avenue and 56th Street forming the primary north-south and east-west connections.
- Install potable water, sanitary sewer, storm sewer and electric infrastructure which will follow the proposed road alignments within the KIN site.
- Update stormwater management with modifications to the existing storm water detention basin to maximize redevelopment.
- Provide public green space areas and greenway to provide a pedestrian connectivity link with bike lanes, future bike paths and public sidewalks.

The City of Kenosha has received an EDA grant for the construction of two through-streets 28th Avenue will extend north and south just west of the American Transmission lines extending through the center of the site. The second street will be an extension of 56th Street from east to west across the site. Primary infrastructure including potable water main, sanitary sewer main and storm sewers will be constructed as part of the infrastructure improvements.

The Kenosha Innovation Center (KIC) is located near the center of the former KEP. The KIC includes approximately 3.5 acres of land. KIC is generally located at the extensions of 26th Avenue and 56th Street in the City of Kenosha, Kenosha County, Wisconsin. The KIC is planned as a public meeting space and business incubator.

2. Project Background

Historic operations at the site included complete automobile manufacturing and assembly, while more recent operations were focused on the manufacture of automotive engines. In 2009 the former owner declared bankruptcy and in 2010 manufacturing operations were permanently discontinued. The bankruptcy court ordered the establishment of a bankruptcy trust to administer decommissioning of the plant, sales of equipment, and razing of the buildings. The building floors and paved areas between buildings were retained to act as a cap over impacted soil and groundwater pending subsequent remediation. During liquidation activities, Phase I and Phase II Environmental Site Assessments (ESAs) were conducted by the City of Kenosha (the City) in 2011 and 2012, prior to the site's abandonment under the bankruptcy court order finalized in January 2014.

The KEP buildings were demolished in 2013. Site investigation activities began in 2014 after the City of Kenosha took ownership of the site. Soil remediation activities were commenced in 2016 and the final soil excavations were completed in September 2018. The remaining pavements were removed in late 2018 and early 2019 while final grading and temporary cap placement started in the spring of 2019 and was completed mid-summer 2019.

2.1 Site Investigation, Interim Actions and Soil Remediation

Environmental impacts resulting from manufacturing operations by Chrysler and its predecessor companies were reported to the Wisconsin Department of Natural Resource (WDNR) at the time they occurred and/or were discovered by the site operator. To some extent, these impacts were investigated, and remedial efforts were conducted at the time of the reported releases. Investigations were conducted in the 1990s prior to demolition of buildings where manufacturing operations were discontinued. Underground storage tanks (USTs) were upgraded or removed and limited remediation was conducted at the UST locations. The remediation typically consisted of soil removal and disposal and in some cases included the installation of groundwater recovery systems when groundwater contamination was observed. In many cases the remedial activities were not complete remediation but were implemented as source-control measures.

Site investigation activities incorporated the results of the Phase II ESAs and were initiated after the property was transferred to the City. The residual impacts remaining after implementation of these historic remedial efforts were considered as impacted areas during the evaluation of the 2014 site investigation data. The investigation activities were completed in 2014 in general conformance with WAC NR 716 and documented in a report dated March 2015. The laboratory analytical tables from the site-wide investigation are included as Appendix A. Each table is accompanied by a map depicting the sampling locations.

Interim remedial actions by excavation of targeted contaminated soil areas were conducted in multiple phases between 2012 and 2018 by the City of Kenosha. Three of the original five groundwater recovery systems operated during soil remediation at the KEP to reduce the potential for off-site groundwater migration. The operation of two other groundwater recovery systems were discontinued when soil excavated in the area of the systems removed the source soil associated with the two systems. Soil remediation conducted at the KEP are summarized in the *Remedial Action Options Report* (AECOM, April 2015; RAOR), *Remedial Action Documentation Report: Phase I Groups, A, B, C, E, G, H and J* (AECOM, July 2018; RADR), and the *Remedial Action Documentation Report: Phase II Groups, D, F, G, H and I* (AECOM, October 2020). The tables and figures depicted the excavation locations and the results of the post-excavation soil sampling are included as Appendix B.

A chronology of site activities by and on behalf of the City of Kenosha are listed in Table 1.

2.2 Groundwater Corrective Action Design & Implementation

The corrective action design approach was accomplished by a multiple of steps that led to the selected treatment. Treatability studies were conducted on the contaminated soil and groundwater. Microcosm studies were conducted to evaluate groundwater for naturally-occurring bacteria that could degrade CVOCs. Two pilot tests were conducted to evaluate two different in-situ treatment methods. The first method, in-situ chemical oxidation (ISCO), used chemicals to destroy CVOCs through oxidation. The second method used, enhanced reductive dechlorination (ERD), uses specific bacterial cultures and substrate to degrade CVOCs. The results of the pilot tests indicate that in-situ remediation was an effective approach to achieve 90% molar mass reduction of CVOCs in the groundwater plumes. Due to the variability of CVOC concentrations in groundwater and the findings of the ISCO and ERD pilot tests, the site was split into four remediation areas for more-precise targeting of remedial actions. The *Remedial Design Report (Groundwater) Revision 1* (AECOM, December 2019; RDR) was approved by WDNR in February 2020.

2.3 Groundwater Remediation

A remediation monitoring network of monitoring wells and piezometers were drilled, constructed, and developed in each of the four remediation areas in November 2020. Baseline groundwater quality was analyzed from each of the new wells in December 2020 and a confirmatory event was conducted in April 2021.

Technical specifications were prepared to publicly bid the groundwater remediation task. Bidders were required to develop a remediation design proposal and cost for site-wide treatment to meet a 90% reduction in the contaminant mass in each remediation area, demonstrated within a two-year period. Regensis Remediation Services (Regensis) was the selected contractor, based on the ranking criteria.

Regensis proposed a combined groundwater remediation approach of sorption-enhanced reductive dechlorination (ERD) and in-situ chemical reduction (ISCR). Regensis first confirmed site conditions before finalizing the design. Regensis developed a work plan based on the results of the design verification testing and prepared a temporary exemption request to inject materials under Wisconsin Administrative Code (WAC) NR 812.05. The exemption was granted on August 31, 2021.

Regensis began the site work on October 6, 2021, mobilizing to the site with injection equipment and crews, and injections continued until January 19, 2022, with a break for the holidays. Post-injection monitoring was conducted at 30, 60 and 90-day intervals after the injections were completed in each of the four remediation areas as an aid to Regensis to provide an evaluation of the treatment's progress. After the initial three sample periods, eight consecutive quarterly remediation-confirmation monitoring events are to be completed to demonstrate remediation completion.

An evaluation of the analytical data indicated reductive dechlorination has occurred or is occurring as planned. The 90% molar mass reduction appears to have been achieved in Areas 2, 3, and 4; however additional remediation-confirmation monitoring is necessary to demonstrate sustained molar mass reduction, per the terms of the contract. Some mass reduction has occurred in Area 1, but a contingency treatment will occur in all four areas in April 2024.

Groundwater monitoring will be continued on a quarterly basis for the remediation monitoring wells and piezometers for to evaluate the groundwater monitoring results for compliance with the goal of the treatment.

3. Geology

Fill material of varying thickness covers the entire site; below, the site geology consists of glacio-lacustrine sand and silt that comprises the upper or shallow aquifer unit of the water table. Beneath the sand aquifer is the clay till that acts as an aquitard to the deeper bedrock aquifers due to its low hydraulic conductivity and permeability, moderate thickness, density, and regional extent. This clay till may contain groundwater at some locations but is not capable of containing or transmitting significant quantities groundwater. The lithology encountered at the sites includes the following:

- Fill – generally consisting of clay, sand, silt, crushed gravel, and in some areas, demolition fill. The majority of the concrete, brick, wood, and demolition debris fill to a depth of four feet below street grade was removed during the soil excavation work conducted in 2016 – 2018. The fill ranges in thickness from approximately 1.5 to 18.5 feet deep, with an average thickness of 7 to 9 feet.
- Silty Clay/Clayey Silt – a discontinuous thin layer of silty clay and clayey silt underlies the fill unit. This layer is generally described as very dark brown to black, dry to moist, slightly-cohesive, low-plasticity, and soft.
- Sand/Silty Sand – this generally consists of a brown, dry to wet, loose to dense sands and silts and comprises the “shallow sand” or “water table” portion of the unconsolidated aquifer. This unit ranges in thickness from 10 to 18 feet bgs.
- Silt/Clayey Silt – a discontinuous layer of lacustrine silt and/or clay separates the silty sand aquifer from the glacial clay till below. This lacustrine layer is one-two feet thick, occurring at approximately 18 to 19 feet bgs and is discontinuous, found most continuously in the western side of the KEP. The unit is generally described as grayish brown, wet, cohesive, medium plasticity, and firm to stiff. This unit comprises the “deeper silt” or “piezometer” portion of the unconsolidated aquifer.
- Clay till – a glacial till layer, which consists of dark gray, wet, cohesive, plastic, and hard clay with stones. This unit is typically encountered at depths of 22 feet (on the west side) to 35 feet (on the east side) bgs and constitutes the lower vertical boundary of groundwater impact.

3.1 Hydrogeology

The water table at KEP typically occurs at a depth of 8 to 11 feet below ground surface (bgs). Horizontal groundwater flow is generally toward the northeast, east, and southeast across the site, both at the water table and just above the clay-till boundary. The groundwater flow direction is fairly consistent throughout the year with a general eastward flow modified by the effect of the existing groundwater recovery systems. There is little seasonal variation. The most recent groundwater elevations are depicted in Figures 5 and 6, the potentiometric surface for the water table monitoring wells and piezometers, respectively.

Site-wide vertical gradients are generally low (less than 0.001 to 0.11) and generally downward, although some upward gradients occurred (likely due to recharge events and other natural influences). At the time of the site investigation there were five groundwater recovery systems that influenced local areas of flow on-site and maintained hydraulic containment of impacted groundwater on-site.

4. Redevelopment Overview

4.1 Infrastructure Redevelopment

Phase I of the redevelopment is to connect the KEP property by extending roadways through the property with infrastructure (sewer, water, electricity, etc.) under and adjacent to those roadways. The KEP would be known as the Kenosha Innovation Neighborhood (KIN). The redevelopment currently planned includes:

- Connect the street and avenue grid consistent through Kenosha with 28th Avenue and 56th Street forming the primary north-south and east-west connections.
- Install potable water, sanitary sewer, storm sewer and electric infrastructure which will follow the proposed road alignments within the KIN site.
- Update stormwater management with modifications to the existing storm water detention basin to maximize redevelopment.
- Provide public green space areas and greenway to provide a pedestrian connectivity link with bike lanes, future bike paths and public sidewalks.

4.2 Phase I Redevelopment Schedule

The infrastructure construction at the KIN started in December 2023 with off-site sanitary sewer improvements prior to moving on-site but has been suspended because of weather. The bulk of the work will start in early 2024 with an expected completion date of February 2025. The proposed infrastructure layout is included in Appendix C.

The KIC construction is scheduled to begin in March 2024 and continue through July 2025.

4.3 Kenosha Innovation Center

The City of Kenosha is proposing to construct the KIC, a three-story building to be used as a public space and as a business incubator. The KIC site encompasses approximately 3.5 acres in the southeast portion of the KEP. The proposed development includes a multi-story building, a public parking lot on the north side of the building, an outdoor public space south of the building, and associated landscaped areas. Initial uses of the building are expected to be intermittent public gatherings. The proposed layout for the KIC and finished surfaces for the development are shown in Sheet C102 included in Appendix D. The KIC will have three base foundation portions of the building which will be connected at the second and third-story levels. The area at ground level between the building bases will be completed as an outdoor plaza and amphitheater which are primarily paved.

5. Material Handling

5.1 Soil

Soil that may be excavated for site grading and placement of utilities or foundations will be managed onsite and placed under the proposed pavement and sidewalks areas or under landscaped areas overlain by a geotextile fabric barrier and clean soil. In the unlikely event that excavated material cannot be managed onsite, the material will be stockpiled, characterized and disposed as appropriate. Shallow soils, soils within zero to four feet of the ground surface, that are excavated and managed on-site are anticipated to have the same characteristics as the existing surficial materials. Non-industrial direct contact residual contaminant level (RCL) exceedances by VOCs and PAHs but will be managed by placement in areas that are capped.

While a small number of samples exceeded the groundwater protection pathway RCL, none of the soil above the water table have contaminant concentrations that leach to groundwater as demonstrated by a soil performance standard. Groundwater impacts have not been observed in downgradient wells indicating that soil with RCL exceedances are not leaching into the groundwater. Prior excavations at the KEP removed soils observed with industrial exceedances to the depth of the water table. Thus, the groundwater pathway is incomplete.

In the event that excavated soils are observed with stains, odors or otherwise appears visually to be contaminated, those soils will be stockpiled and characterized prior to disposal.

5.1.1 Infrastructure Soil

The water and sewer construction trenches will place excavated soil adjacent to the trench and after the piping is placed with the bedding backfill, the trench spoils will be replaced in approximately the same location from where they originated. Most portions of the road will be raised and the spoils from the utility trenches or other parts of the road will be placed under the roadway. The soils moved around the site will ultimately be covered with pavement or clean fill soil to meet final grade. The infrastructure layout and cut/fill figures are included as Appendix C.

5.1.2 KIC Soil

In general, the project area has a cut/fill balance that will require the import of material as shown in Sheet C104C. Excavated material for the project will come from three main sources: general grading, utility excavation and foundation excavation. General grading will predominantly occur at the south and southeastern portions of the project area. Excavated material will be reused within the project area and placed under the proposed pavement, sidewalks and landscaped areas. In the landscaped areas, placed excavated material will be overlain with a geotextile fabric and minimum of six inches of clean material. The proposed site grading and utility locations are shown in Sheet C104. The drawings are included in Appendix D.

Specific soil management as detailed in the NR 718 Exemption request includes:

- Excavated soil from foundations, trenches and grading activities will be placed within the KIC parcel under the proposed paved parking lot on the north area of the parcel and the sidewalk and landscape areas around the proposed building footprints.
- The paved surfaces of the parking area and sidewalks will provide a direct contact barrier.

- On site material in landscaped areas will be covered with a geotextile fabric to act as a direct contact barrier and a minimum of 6 inches of clean soil.

5.1.3 Waste Characterization

Representative soil samples will be collected to allow for the material to be characterized for off-site waste disposal and a licensed disposal facility. The soils samples will be submitted to a Wisconsin-certified laboratory for analyses as required by the landfill. Typically, waste characterization samples should be analyzed for the eight Resource Conservation and Recovery Act metals (arsenic, barium, chromium, copper, lead, mercury, silver, and selenium) by the Toxicity Characteristic Leaching Procedure (TCLP) and volatile and semi-volatile organic compounds, polychlorinated biphenyls (PCBs), diesel range organics, gasoline range organics, and general chemistry parameters such as flash point, paint filter test, pH, total phenols, and percent moisture.

5.1.4 Excavation Dewatering/Contact Water Management

Potable water and sanitary sewer excavation activities are anticipated to extend to a maximum depth of eight to ten feet below the finished grade. Stormwater piping will be generally more shallow except for the extension of the stormwater piping from the Bonnie Hame area that will ultimately discharge into the storm water pond on the KIN and the deeper rammed pier foundations for the KIC.

Another consideration is that the subsurface soil at the water table consists primarily of fine-grained soils which do not yield a significant volume of water; and based on prior excavations, the soil at the water table interface will be removable without dewatering. In the event that groundwater would enter the excavation to the degree where dewatering would be necessary, groundwater captured by dewatering will need to be contained and sampled before discharge to the sanitary sewer. If discharge to the storm sewer is desired, a Wisconsin-pollution Discharge Elimination System (WPDES) permit must be obtained prior to dewatering and discharge.

When necessary, the construction contractors will take measures to mitigate the drainage of storm water runoff from entering excavations caused by their work. If a substantial amount of storm water enters the excavation from a significant rainfall event, the construction contractor may pump the stormwater into the existing stormwater pond.

6. Soil Placement

Soil will be moved around on the site to meet final design grades. While not anticipated to be encountered; bricks, concrete, and or asphalt that is painted with lead-based paint or contaminated with PCBs will be disposed of off-site and will not be utilized as fill material.

Additional soil from off-site sources may also be used, as necessary. In accordance with WDNR guidance, an assessment will be made of each off-site source soil source proposed for use on-site during redevelopment. The following sections provide additional information regarding cut/fill soils.

In general conformance with NR 504.04(3)(c) and NR 504.04 the cut soil will not:

- Be located within a floodplain – the KIN is not located in a flood plain;
- Will not have a “significant adverse impact on wetlands” – the KIN is located in an urban area with no nearby wetlands;
- Will not cause a “take of an endangered or threatened species”;
- Will not cause a “detrimental effect on any surface water”;
- Will not cause a “detrimental effect on groundwater quality or will cause or exacerbate an attainment or exceedance of any preventive action limit or enforcement standard”;
- Will not cause a “migration and concentration of explosive gases”; and
- Will not cause “the emission of any hazardous air contaminant exceeding the limitations for those substances contained in NR 445.04 or 445.05.

In addition, in general conformance with NR 718.12(1)(c), in no instance will soil be placed in the following locations:

- Within a floodplain.
- Within 100 feet of any wetland or critical habitat.
- Within 300 feet of any navigable river, stream, lake, pond, or flowage.
- Within 100 feet of any on-site water supply well or 300 feet of any off-site water supply well;
- Within 3 feet of the high groundwater level, except for utility trenches which will have the removed soil replaced at approximately the same elevation from which it was excavated.
- At a depth greater than the depth of the original excavation from which the contaminated soil was removed.
- Where the contaminated soil poses a threat to public health, safety, or welfare or the environment.

6.1 Off-Site Soil Material Sources

As needed, additional off-site sources may be identified for use at the KIN. The City will require the selected contractor(s) to identify the sources that they will use for any required fill material as part of the bid submittal process. To the extent possible, offsite fill materials shall be obtained from virgin non-industrial/urban borrow sites.

At a minimum, the submittal will include the following information:

- Location of the proposed fill site
- Past and current uses of the property
- Maps and diagrams identifying where the material is coming from and the anticipated placement areas
- Available sampling data of the import material

6.2 Topsoil

Topsoil will be stripped from the proposed disturbed areas of the development site, stockpiled on site and re-used in landscape areas. If an excess of topsoil is present, the material will be spread in other areas of the KIN because the topsoil is the original clean fill material imported to the KEP site as the temporary cover material.

7. References

AECOM March 2015, *Site Investigation Report*, Former Kenosha Engine Plant

AECOM, April 2015, Remedial Action Options Report

AECOM June 2015, *Remedial Design Report (Soil)*, Former Kenosha Engine Plant

AECOM December 2015, *CS2 Remedial Action Documentation Report*, Former Kenosha Engine Plant

AECOM, March 2018, In-Situ Chemical Oxidation Pilot Test Documentation Report

AECOM July 2018, *Remedial action Documentation Report, Phase I – Groups, A, G, C, E, G, H, and J*, Former Kenosha Engine Plant

AECOM, October 2018, Enhanced Reductive Dechlorination Pilot Test Documentation Report

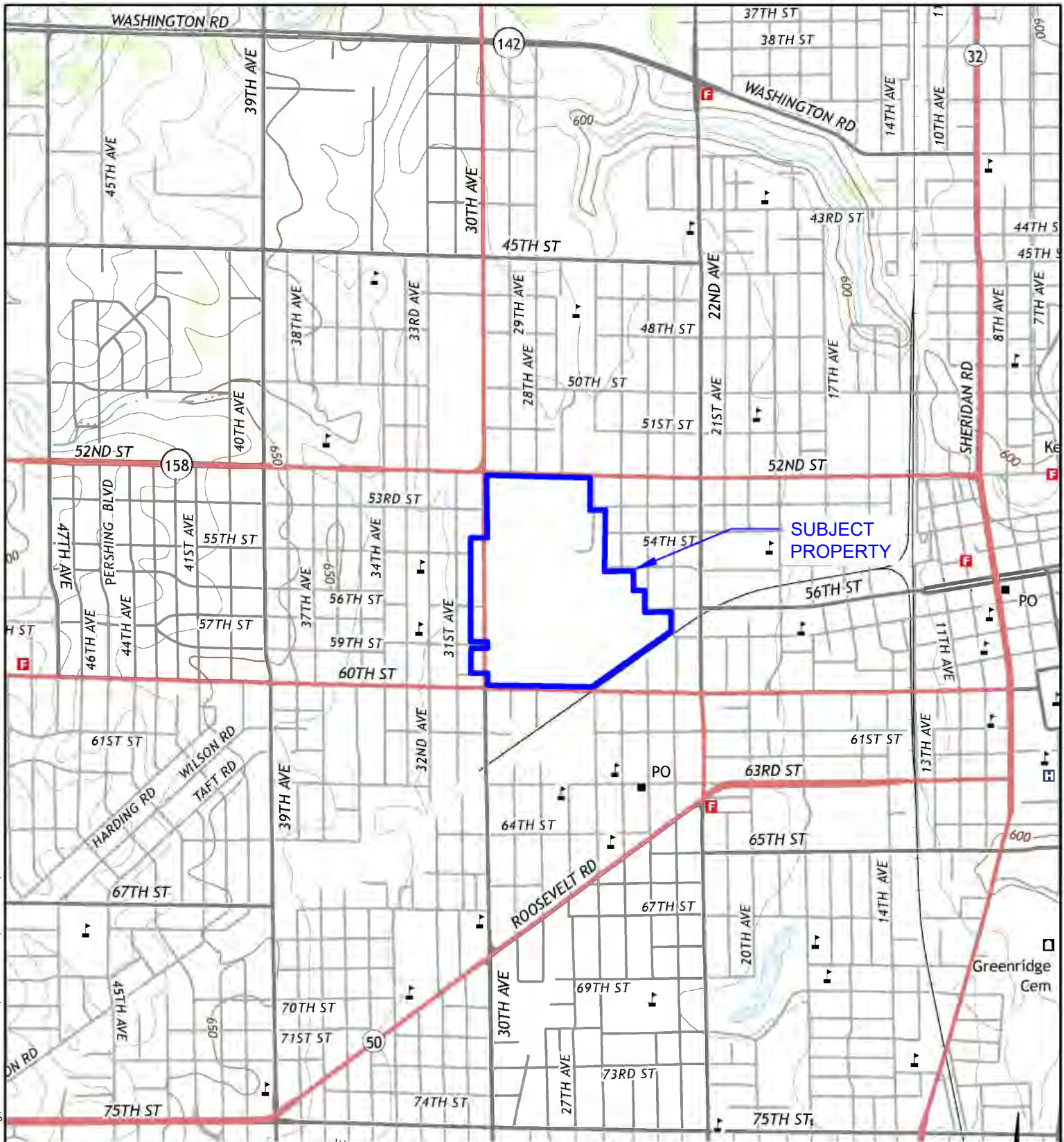
AECOM, December 2019, Remedial Design Report (Groundwater) Revision 1

AECOM, August 2020, KEP Sitewide Groundwater Remediation, Kenosha Project Number 20-2007, Technical Plans and Specifications for Groundwater Remediation

AECOM, October 2020, KEP Remedial Action Documentation Report, Sitewide Soil Remediation Phase II (Groups D, F, G, H and I)

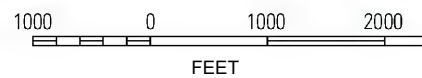
Figures

- Figure 1 Site Location
- Figure 2 Site Current Site Layout
- Figure 3 Site Environmental Conditions
- Figure 4 Proposed Site Plans
- Figure 5 Groundwater Elevation Contour Map (Monitoring Wells), October 2023
- Figure 6 Groundwater Elevation Contour Map (Piezometers), October 2023



NOTES

1. TOPOGRAPHIC MAP FROM USGS:
<http://store.usgs.gov/b2c/usgs/usgs/maplocator/>
 DATED 2013



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 Milwaukee, WI 53212
 414.944.6080
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SITE LOCATION
 KENOSHA INNOVATION NEIGHBORHOOD
 CITY OF KENOSHA
 KENOSHA, WISCONSIN



Drawn : AS 4/7/2015
 Checked: LLA 4/7/2015
 Approved: KWB 4/7/2015

PROJECT NUMBER **60677460**

FIGURE NUMBER **1**



Key:

-  Site Location
-  Approximate location of the Current Dry Stormwater Pond

Source: Google Earth, 2021

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1555 RiverCenter Dr
Milwaukee, WI
414.944.6080

KENOSHA INNOVATION NEIGHBORHOOD
CITY OF KENOSHA
KENOSHA, WISCONSIN

CURRENT SITE LAYOUT

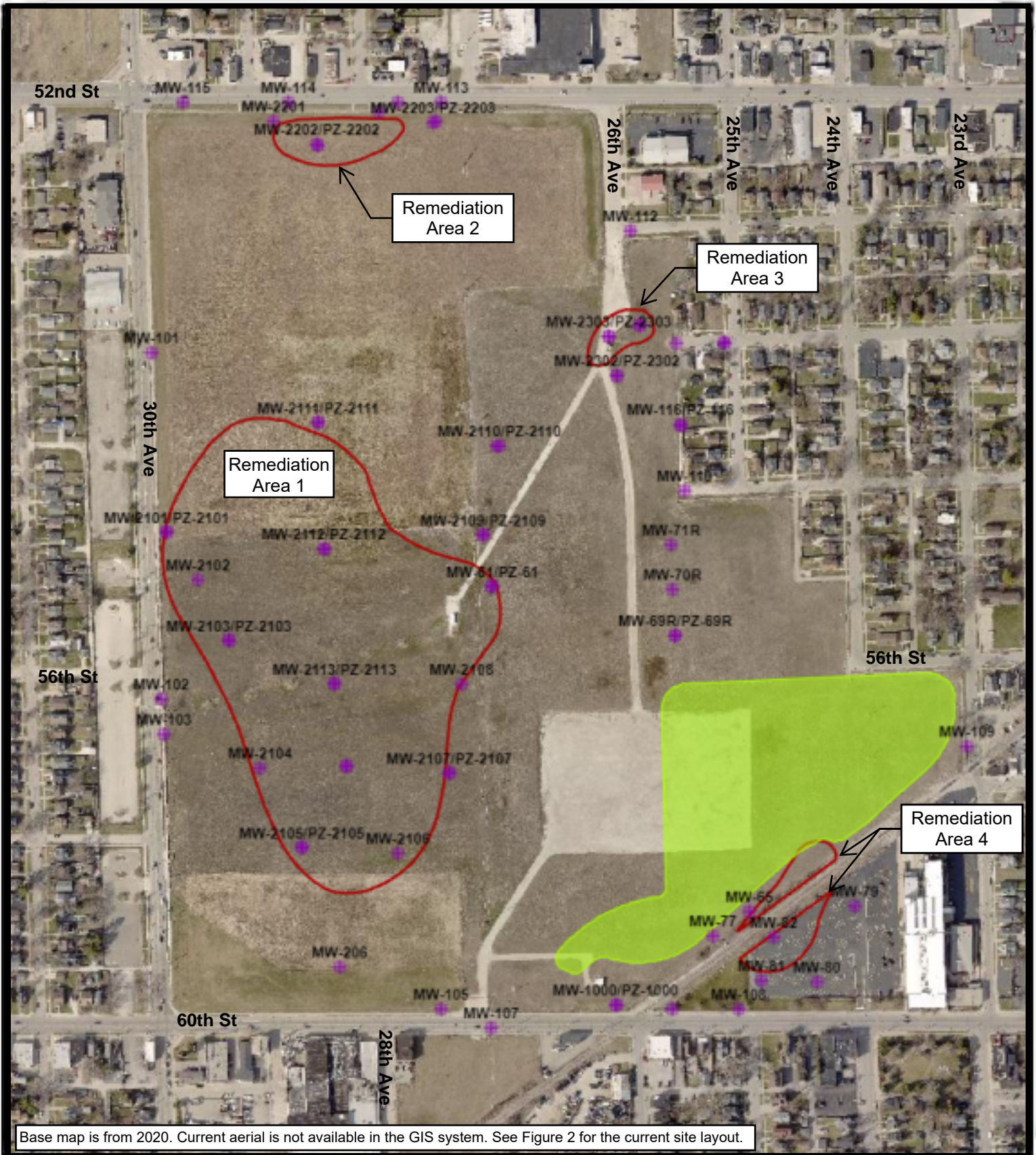


Project Number:
60677460


Drawn By:
CAK

Date:
6/9/2022

Figure 2



Base map is from 2020. Current aerial is not available in the GIS system. See Figure 2 for the current site layout.

- Key:**
-  Monitoring Wells/ Piezometers
 -  Groundwater Remediation Areas
 -  Current Dry Stormwater Pond

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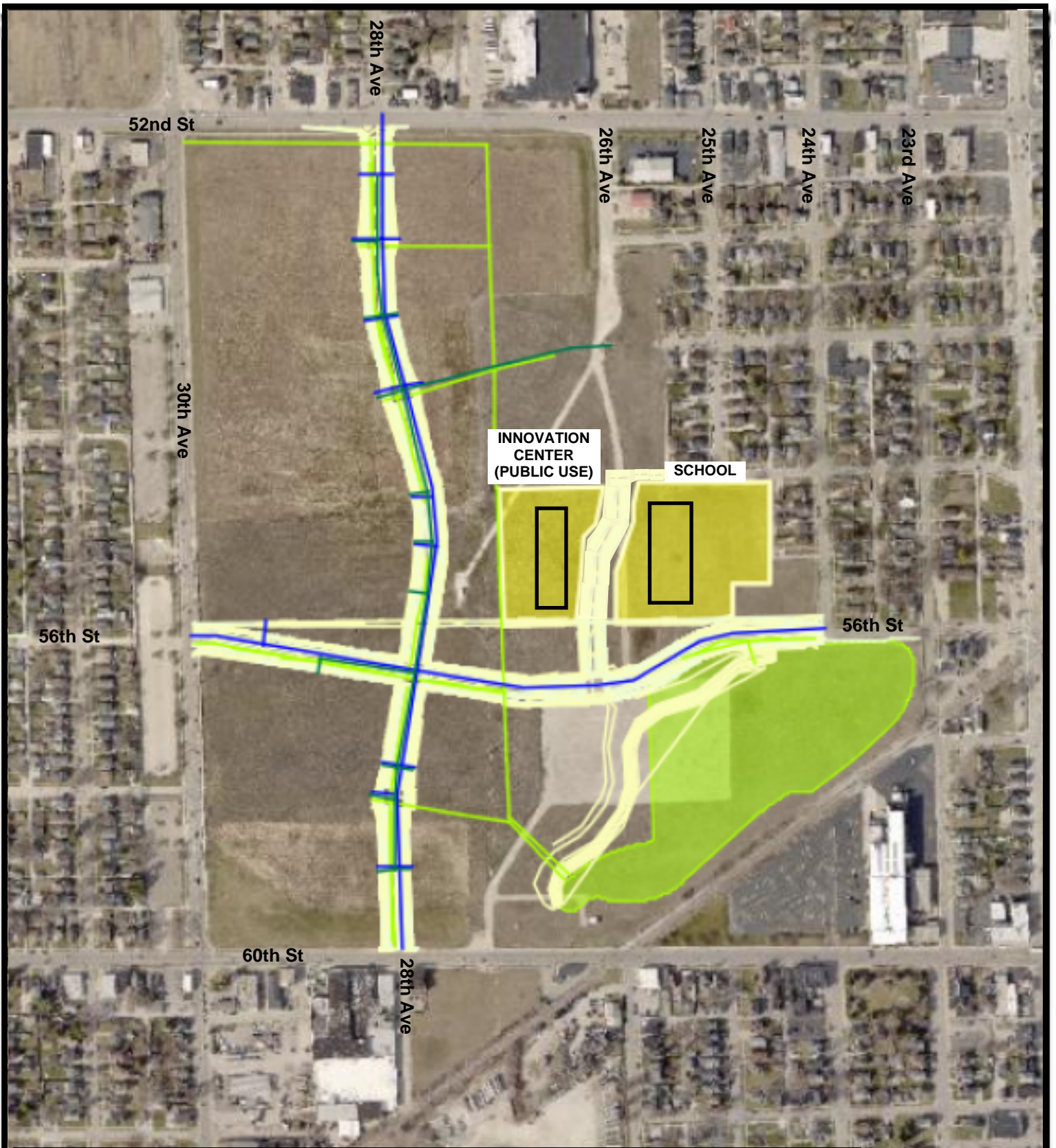
KENOSHA INNOVATION NEIGHBORHOOD
 CITY OF KENOSHA
 KENOSHA, WISCONSIN

SITE ENVIRONMENTAL CONDITIONS



Project Number: 60677460 Drawn By: CAK Date: 6/9/2022

Figure 3

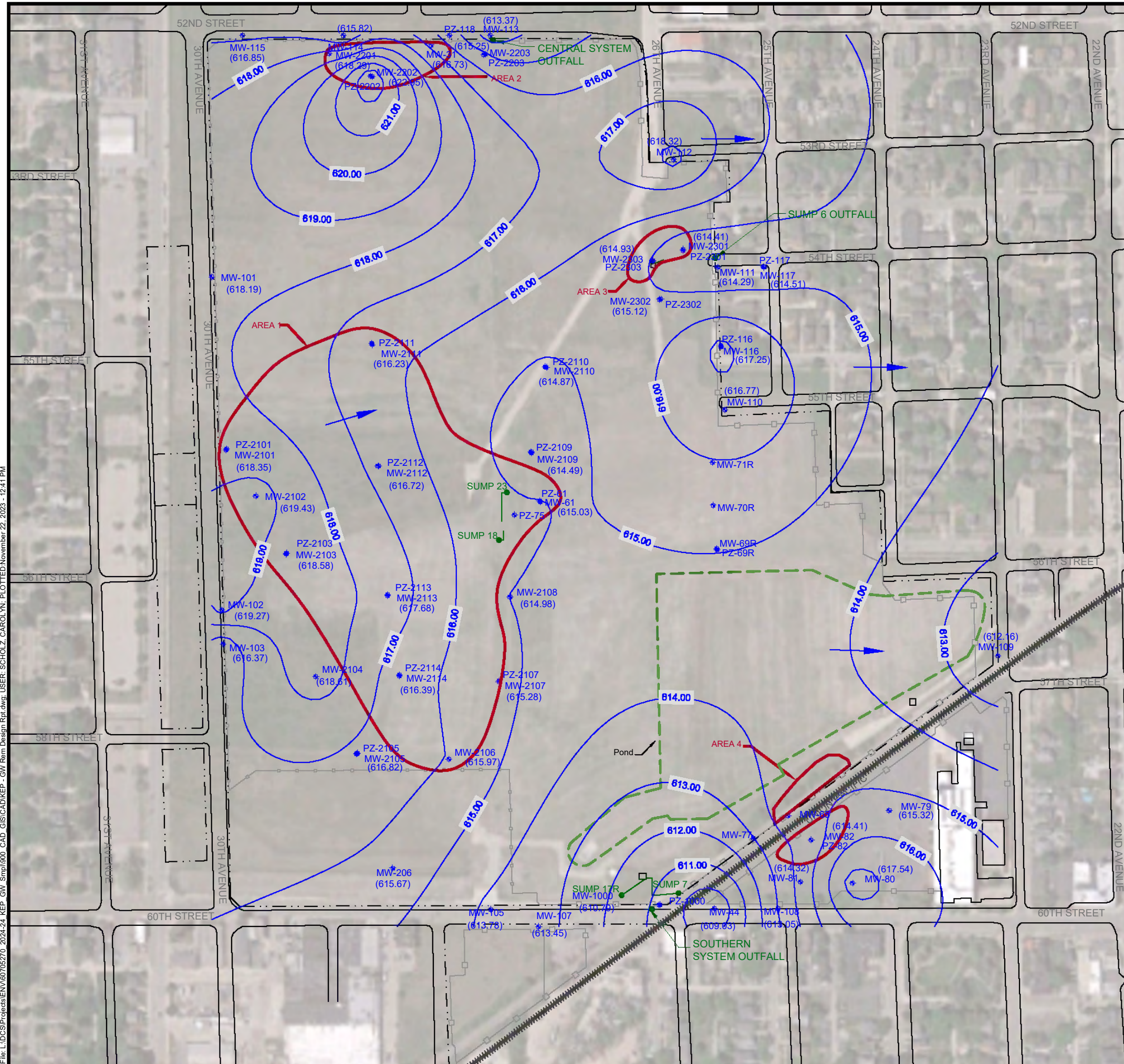


Base map is from 2020. Current aerial is not available in the GIS system. See Figure 2 for the current site layout.

Key: Proposed Storm Sewer Proposed Sanitary Sewer Proposed Water Line Current Dry Stormwater Pond	Proposed Roadway Proposed Building Parcel Berm for Proposed Stormwater Pond	AECOM Milwaukee Office 1555 RiverCenter Dr Milwaukee, WI 414.944.6080	KENOSHA INNOVATION NEIGHBORHOOD CITY OF KENOSHA KENOSHA, WISCONSIN
			PHASE I PROPOSED REDEVELOPMENTS
		Project Number: 60677460	Drawn By: CAK
		Date: 6/9/2022	

Figure 4

File: L:\DCS\Projects\EN\60705270_2024\24 KEP_GW_Smpl\1000 CAD_GIS\CAD\KEP - GW Rem Design Plot.dwg USER: SCHOLZ, CAROLYN PLOTTED: November 22, 2023 - 12:41 PM



- LEGEND**
- APPROXIMATE SITE BOUNDARY
 - ++++ RAILROAD
 - EXISTING FENCE
 - SUMPS AND SANITARY OUTFALLS
 - SUMP UTILITY LINES
 - ⊕ MONITORING WELLS AND PIEZOMETERS
 - REMEDIAL TREATMENT AREAS
 - (614.93) GROUNDWATER ELEVATIONS
 - 615.00 — GROUNDWATER CONTOUR (INTERVAL AT 1.0 FT.)
 - GROUNDWATER FLOW DIRECTION

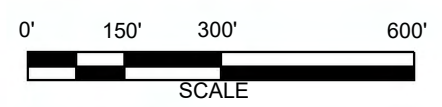
- NOTES**
1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH PRO, IMAGE DATED 5/28/2021; DOWNLOADED ON 8/30/2021.
 2. BORDER DISCONTINUITIES ARE DUE TO ANGLE OF 2018 AERIAL.



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GROUNDWATER ELEVATIONS CONTOUR MAP (MONITORING WELLS)

OCTOBER 2023
 KENOSHA ENGINE PLANT
 CITY OF KENOSHA
 KENOSHA, WISCONSIN



Drawn:	CAS	1/27/2023
Checked:	LLA	11/27/2023
Approved:	LLA	11/27/2023
PROJECT NUMBER	60705270	
FIGURE NUMBER	5	

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LEGEND

- APPROXIMATE SITE BOUNDARY
- ||||| RAILROAD
- EXISTING FENCE
- SUMPS AND SANITARY OUTFALLS
- SUMP UTILITY LINES
- + MONITORING WELLS AND PIEZOMETERS
- REMEDIAL TREATMENT AREAS
- (614.85) GROUNDWATER ELEVATIONS
- 615.00 — GROUNDWATER CONTOUR (INTERVAL AT 1.0 FT.)
- ➔ GROUNDWATER FLOW DIRECTION

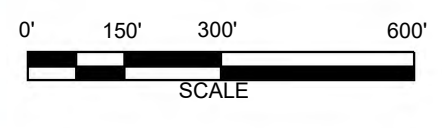
NOTES

1. AERIAL PHOTO FROM GOOGLE EARTH PRO, IMAGE DATED 5/28/2021; DOWNLOADED ON 8/30/2021.
2. BORDER DISCONTINUITIES ARE DUE TO ANGLE OF 2018 AERIAL.

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GROUNDWATER ELEVATIONS CONTOUR MAP (PIEZOMETERS)
 OCTOBER 2023
 KENOSHA ENGINE PLANT
 CITY OF KENOSHA
 KENOSHA, WISCONSIN



Drawn:	CAS 11/27/2023
Checked:	LLA 11/27/2023
Approved:	LLA 11/27/2023
PROJECT NUMBER	60705270
FIGURE NUMBER	6

Table

Table 1 Investigation & Remediation Chronology for the former Kenosha Engine Plant

Table 1

Investigation & Remediation Chronology for the former Kenosha Engine Plant

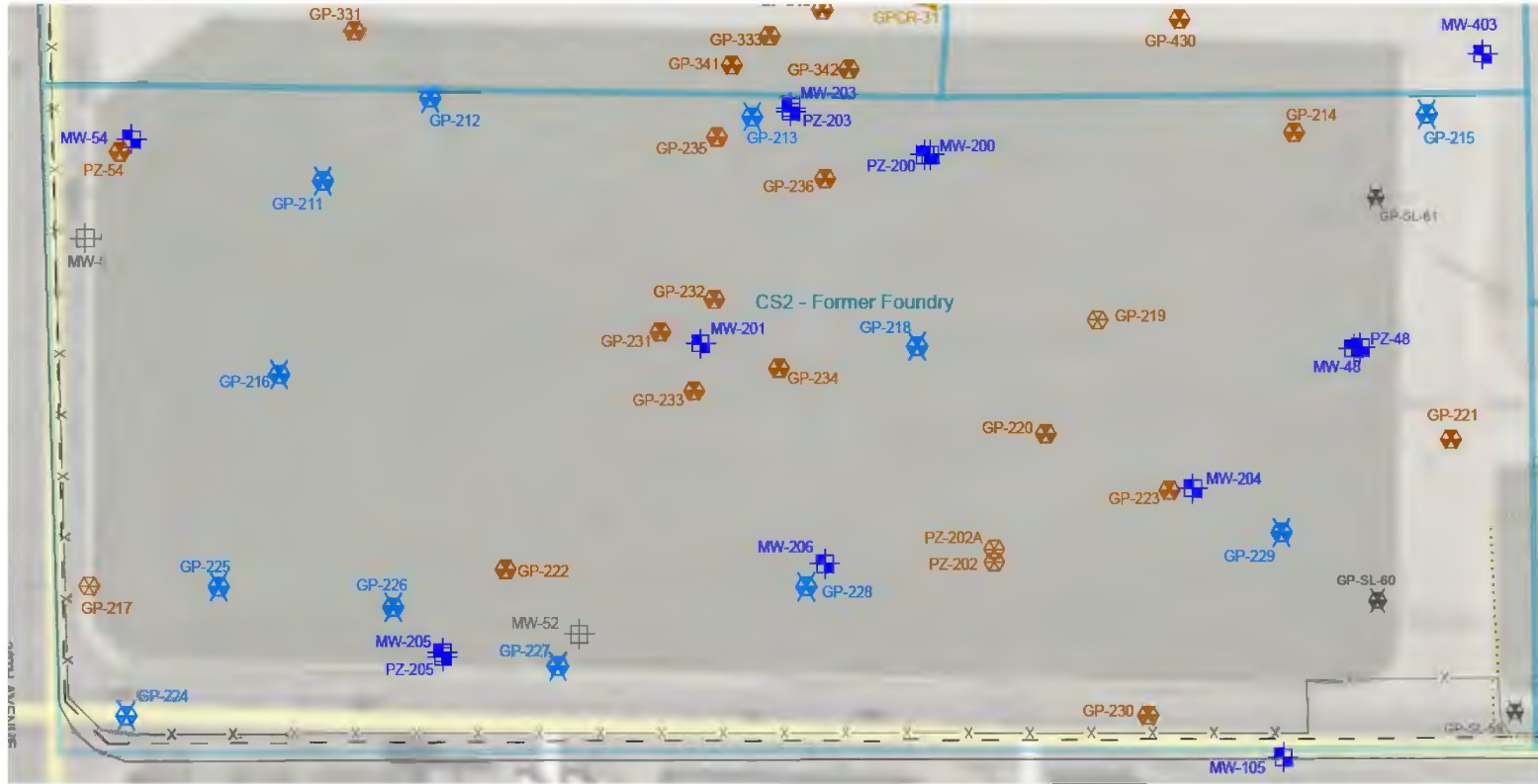
Year	Activity
2009	Chrysler Corporation declares bankruptcy and indicates to the bankruptcy court that the Kenosha Engine Plant (KEP) will not be retained as part of post-bankruptcy emergence.
2010	Manufacturing operations were discontinued. Old Carco LLC (formerly known as Chrysler LLC) filed for bankruptcy to liquidate the property.
2011-2013	Old Carco Liquidation Trust was established to oversee the removal of the equipment and salvage of the buildings as a means to return some of the investment at the property to the lein-holders. The liquidation trust was known as Old Carco and administered by a single representative from Capstone Advisory Group, LLC. A remediation trust fund was established by the bankruptcy court to address environmental contamination at the former KEP. Equipment was auctioned and removed by the winning bidder. The raze of the buildings was auctioned to the highest bidder. Site access during this period was controlled and limited by the Trust.
2011	A Phase I Environmental Site Assessment (ESA) was completed for the former KEP. A site history and recognized environmental conditions were identified across the property included as the former KEP.
2012	Off-site investigations were conducted around the perimeter of the KEP and a vapor intrusion evaluation was conducted in the residential area east of the KEP.
2012	An interim investigation of the soil contained in berms forming the perimeter of the KEP inside the fenced boundary was conducted.
2012	The former KEP was subdivided into 12 separate parcels or Chrysler sites to aid in the further evaluation of the overall site. Phase II Environmental Site Assessments were conducted on a per-parcel basis.
2012	Site-wide sewer inspection and sampling was conducted.
2012	Five underground storage tanks were removed from the center of the KEP and additional soil removal was completed in the area surrounding the USTs.
2013	Evaluated a former steam tunnel under 60 th Street from water tank parcel on the south side of 60 th Street to the north side of 60 th Street into the KEP property.
2014	In February 2014, the former KEP property was abandoned and the City of Kenosha took possession of the property.
2014-2021	Groundwater extraction systems were reviewed and AECOM began operation and maintenance of the systems for the City of Kenosha. Operations of the systems continued until groundwater remediation began in 2021.
2014	Groundwater levels evaluated, work plan for site investigation prepared and submitted for WDNR review.
2014-2015	KEP site-wide investigation was completed in general conformance with Wisconsin Administrative Code (WAC) § NR716. Site Investigation Report was issued on February 24, 2015
2015	Interim remedial activities were conducted: 1) Soil impacted with hazardous levels of lead was removed from under Building 53. 2) Petroleum contaminated soil was removed from the northwest area of the site (CS6) which resulted in the removal of two groundwater recovery systems because they were no longer necessary, the impact to groundwater was removed. 3) Petroleum contaminated soil was removed from the south side of former Building 70.
2015	A Remedial Action Options Report (April 2015) was prepared in general conformance with WAC § NR722 and submitted to the WDNR. The selected remedial options were approved by WDNR on June 18, 2015.
2015	A Remedial Design Report (Soil) was completed in general conformance with WAC § NR 724 and submitted to the WDNR in June 2015.
2015	Plans and specifications for soil remediation of the southwest 8-acres of the KEP (CS2) were prepared and the project was publicly bid. Soil remediation was conducted from July to October of 2015. The soil remediation is documented in the CS2 Remedial Action Documentation Report – Kenosha Engine Plant dated February 2016.
2015	A work plan for a pilot test to evaluate in-situ groundwater treatment methods was submitted to the WDNR.
2015	The Urban Land Institute Advisory Services conducted a study and presented a Site Redevelopment plan for the former KEP.

Table 1**Investigation & Remediation Chronology for the former Kenosha Engine Plant**

Year	Activity
2015	Additional storm and sanitary sewer testing was conducted.
2015	Former concrete pads for ground-level electrical transformers were tested for PCBs. PCBs were detected in only one of the seven pads present at the KEP.
2016	Plans and specifications were prepared for site-wide soil remediation. The plans indicated the soil remediation would be conducted by CS-area. The soil remediation was publicly bid in August 2016.
2016	A Soil and Material Management Plan was prepared and submitted to the WDNR in March 2016 and revised in September 2016.
2016	An NR 718.12(2) Exemption Request was submitted to the WDNR on September 15, 2016 for the reuse of berm soils to fill soil excavations that occurred as part of soil remediation.
2016	The soil remediation (and submittals associated with soil remediation) were approved in a letter from the WDNR dated September 16, 2016. Final approval of the Soil & Materials Management Plan and the NR 718 exemption request was provided in a WDNR letter dated October 7, 2016. The City of Kenosha Common Council awarded the work to Oakes & Son on October 3, 2016 and the contractor mobilized to the site the week of October 10, 2016. Work continued through 2017 (see below).
2016	A response to EPA comments on the work plan for a groundwater pilot test was submitted in July 2016 and the Groundwater Pilot Test Work Plan was approved on August 22, 2016. The pilot tests were publicly bid and the projects awarded. Injection exemptions were granted on December 2, 2016. ISCO injections were completed in December 2016 with post-injection monitoring occurring in 2017.
2017	ISCO post-treatment monitoring occurred in January and March 2017. The results of the ISCO pilot test was submitted to the WDNR in a report titled In-Situ Chemical Oxidation Pilot Test Documentation Report dated March, 2018.
2017-2018	ERD Pilot testing injection were completed in March 2017 and post treatment monitoring occurred quarterly through 2017 to March 2018.
2018	Remedial Action Documentation Report dated July 16, 2018 was submitted to WDNR. This was Phase I for soil remediation-included specific excavation areas as well as some general grading.
2018	Enhanced Reductive Dechlorination Pilot Test Documentation Report dated October 2, 2018 was submitted to WDNR.
2018	Plans and specifications for sitewide soil remediation Phase II were prepared and the work was publicly bid in July 2018. The contract was awarded to Michels by the City of Kenosha Common Council on July 30, 2018. The contractor began work in September 2018 and finished in July 2019. At the completion of the Phase II Soil Remediation the site was graded, covered with topsoil and seeded.
2019	Remedial Design Report (Groundwater) was completed in general conformance with WAC § NR 724 and submitted to the WDNR in July 2019. The report was revised and resubmitted in December 2019. The Remedial Design Report for groundwater was conditionally approved on February 12, 2020.
2020	KEP Sitewide Groundwater Remediation Technical Specifications were finalized in August 2020. The remedial work was publicly bid with proposals for remediation due on August 26, 2020. Bids were received and the contract was awarded to Regenesi Bioremediation Products, Inc.
2021	The groundwater remediation contract was executed on March 10 2021 to Regenesi. Regenesi proceeded to collect pre-design data in order to prepare a work plan to submit for a Temporary Injection Exemption. The request for an Injection exemption was submitted to the WDNR on June 25, 2021. The injection exemption was granted on August 31, 2021. Regenesi mobilized to the site on October 6, 2021, took delivery of injection products and began utility clearance activities at the four treatment areas.
2022	Each treatment area was completed and three sample events were conducted at 30-day intervals after treatment. Area 1 was the final area treated and treatment was completed in mid-January 2022. The final 90-day post treatment sample for Area 1 was collected at the end of April 2022.
2023	Quarterly groundwater monitoring was completed at each of the four treatment areas and on a semi-annual basis for the wells around the perimeter of the site.

Appendix A Site Investigation Sample Locations and Results Tables

**CS2 SOIL SAMPLE LOCATIONS
 FORMER KENOSHA ENGINE PLANT
 KENOSHA, WISCONSIN**



- EXISTING WATER TABLE MONITORING WELL (MW) OR PIEZOMETER (PZ)
- ABANDONED MONITORING WELL (MW) OR PIEZOMETER (PZ)
- SOIL PROBE
- SOIL PROBE - REFUSAL
- SOIL PROBE / TEMPORARY MONITORING WELLS
- PHASE II INVESTIGATION
- INTERIM INVESTIGATION

Drawn: Ila 1-23-2024
 Checked: Ila 1-23-2024
 Approved: Ila 1-23-2024

PROJECT NUMBER **60677460**

FIGURE NUMBER

Table 8a
CS2 Detected Volatile Organic Compounds in Soil at Soil Probe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-SL-59 (1-2) 05/23/11	GP-SL-59 (23-24) 05/23/11	GP-SL-60 (2-3) 05/23/11	GP-SL-60 (2-3) DUP 05/23/11	GP-SL-60 (17-18) 05/23/11	GP-SL-60 (27-28) 05/23/11	GP-SL-61 (1-2) 05/26/11	GP-SL-61 (6-7) 05/26/11	GP-SL-61 (22-23) 05/26/11	GP-211 (2-3) 12/14/11	GP-211 (6-7) 12/14/11	GP-211 (22-23) 12/14/11
	Direct Contact Pathway		Groundwater Pathway												
	Non-Industrial	Industrial													
VOCs (µg/kg)															
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25.5	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25.5	<25	<25
1,1-Dichloroethene	342,000	1,190,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25.5	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	39.4 ^J	<25	<25	<25	<25	358	<25	52.1 ^J	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	142	<25	<25.5	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	237 ^C	<25	<25.5	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<25	31.4	<25	<25	<25.5	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	716	<25	<25.5	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	37.6 ^J	33.5 ^J	<25	<25	<25	286	<25	<25.5	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25.5	<25	<25
n-Butylbenzene	108,000	108,000	--	<40.4	<40.4	148	115	<40.4	<40.4	<40.4	<40.4	<40.4	<41.2	<40.4	<40.4
n-Propylbenzene	264,000	264,000	--	<25	<25	76.5	50.6 ^J	<25	<25	<25	443	<25	<25.5	<25	<25
Naphthalene	5,150	26,000	658.7	<25	<25	222	157	<25	<25	<25	715 ^C	<25	5,280 ^{AC}	<25	<25
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	<25	<25	<25	<25	233	<25	47.9 ^J	<25	<25
sec-Butylbenzene	145,000	145,000	--	<25	<25	129	130	<25	<25	<25	108	<25	<25.5	<25	<25
tert-Butylbenzene	183,000	183,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25.5	<25	<25
Tetrachloroethene	30,070	153,000	4.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25.5	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	41.6	117	<25	<25.5	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25.5	<25	<25
Trichloroethene	1,260	8,810	3.6	124 ^C	<25	<25	<25	<25	<25	<25	<25	<25	<25.5	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25.5	<25	<25
Xylene (Total)	258,000	258,000	3,940	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	338	<77.4	<79	<77.4	<77.4
Diesel Range Organics (mg/kg)	--	--	--	NT	NT	NT	NT	NT	NT	NT	NT	NT	9,710	1,710	15.2

Table 8a
CS2 Detected Volatile Organic Compounds in Soil at Soil Probe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-212	GP-212	GP-212	GP-213	GP-213	GP-213	GP-214	GP-215	GP-215	GP-215	GP-216	GP-216	
	Direct Contact Pathway		Groundwater Pathway	(3-4)	(6.5-7.5)	(17-18)	(3-4)	(6-7)	(22-23)	(2-3)	(2-4)	(6-7)	(22-23)	(3-4)	(5-7)	
	Non-Industrial	Industrial		12/14/11	12/14/11	12/14/11	12/15/11	12/15/11	12/15/11	12/15/11	12/15/11	12/19/11	12/19/11	12/19/11	12/15/11	12/15/11
VOCs (µg/kg)																
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	134	<250	<125	<25	<40.2	<25	
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25	<250	<125	<25	<40.2	<25	
1,1-Dichloroethene	342,000	1,190,000	5	<25	<25	<25	<25	<25	<25	<25	<250	<125	<25	<40.2	<25	
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	184	<25	<25	5,680 ^C	6,350 ^C	<25	<40.2	<25	
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	53.6 ^J	<25	<25	2,040 ^C	2,080 ^C	<25	<40.2	<25	
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<250	<125	<25	<40.2	<25	
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	82 ^C	<25	172 ^C	<25	<250	<125	<25	<40.2	<25	
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	1,170	1,650	<25	<40.2	<25	
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	<25	<25	<25	<25	637 ^J	610	<25	<40.2	<25	
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	<25	28.1 ^{JC}	<250	<125	<25	<40.2	<25	
n-Butylbenzene	108,000	108,000	--	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	871	812	<40.4	<65	<40.4	
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	<25	<25	<25	<25	998	1,020	<25	<40.2	<25	
Naphthalene	5,150	26,000	658.7	<25	56.8 ^J	<25	<25	41.7 ^J	<25	32.3 ^J	925 ^C	2,650 ^C	<25	<40.2	<25	
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	<25	<25	<25	<25	697 ^J	505	<25	<40.2	<25	
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<25	<25	<25	<25	355 ^J	241 ^J	<25	<40.2	32.6 ^J	
tert-Butylbenzene	183,000	183,000	--	<25	<25	<25	<25	<25	<25	<25	<250	<125	<25	<40.2	<25	
Tetrachloroethene	30,070	153,000	4.5	<25	<25	<25	<25	<25	<25	<25	<250	<125	<25	<40.2	<25	
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<250	<125	<25	<40.2	<25	
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<250	<125	<25	<40.2	<25	
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	718 ^C	<25	<25	<25	<250	<125	<25	<40.2	<25	
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<250	<125	<25	<40.2	<25	
Xylene (Total)	258,000	258,000	3,940	<77.4	<77.4	<77.4	<75	<75	<75	<75	3,450	4,640 ^C	<77.4	NA	<75	
Diesel Range Organics (mg/kg)	--	--	--	43.3	73.5	7.9	2,430	200	35.2	35.3	18.4	7.8	6.1	7.6	10.9	

Table 8a
CS2 Detected Volatile Organic Compounds in Soil at Soil Probe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-216 (22-23) 12/15/11	GP-218 (2-3) 12/15/11	GP-218 (6-7) 12/15/11	GP-218 (21.5-22.5) 12/15/11	GP-220 (3-4) 12/19/11	GP-220 (6-7) 12/19/11	GP-221 (3-4) 12/19/11	GP-221 (5-6) 12/19/11	GP-221 (9-10) 12/19/11	GP-222 (3-4) 12/16/11	GP-222 (7-8) 12/16/11	GP-222 (9-10) 12/16/11	GP-223 (3-4) 12/19/11	
	Direct Contact Pathway		Groundwater Pathway														
	Non-Industrial	Industrial															
VOCs (µg/kg)																	
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50	<50	<100	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	76.2	<25	<25	<25	<25	<25	<25	<25	<25	<50	<50	<100	<25
1,1-Dichloroethene	342,000	1,190,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50	<50	<100	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	37.6 ^J	<25	<25	<25	56.7 ^J	<25	65.1 ^J	<25	<50	<50	148 ^J	30.7 ^J	
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50	<50	<100	<25	
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50	<50	<100	47.5 ^{JC}	
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50	<50	<100	<25	
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50	<50	<100	46.2 ^J	
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	<25	<25	<25	<25	150	295	<50	<50	198 ^J	<25	
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50	<50	<100	<25	
n-Butylbenzene	108,000	108,000	--	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	707	92.1	<80.8	<80.8	1,340	<40.4	
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	<25	<25	<25	<25	219	89.9	<50	60.3 ^J	413	28.7 ^J	
Naphthalene	5,150	26,000	658.7	<25	256	85.2	<25	<25	104	<25	732 ^C	375	3,530 ^C	575	4,240 ^C	253	
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	<25	<25	<25	<25	190	<25	<50	<50	300	<25	
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<25	<25	<25	<25	155	93.9	<50	96.5 ^J	743	<25	
tert-Butylbenzene	183,000	183,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50	<50	<100	<25	
Tetrachloroethene	30,070	153,000	4.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50	<50	<100	<25	
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50	<50	<100	188	
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50	<50	<100	<25	
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50	<50	<100	<25	
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50	<50	<100	<25	
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<75	<77.4	<77.4	<77.4	<77.4	<77.4	<150	<150	<300	121 ^J	
Diesel Range Organics (mg/kg)	--	--	--	4.7	2,040	500	9.1	389	197	1,390	1,960	NT	6,130	4,520	NT	9,810	

Table 8a
CS2 Detected Volatile Organic Compounds in Soil at Soil Probe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-224	GP-224	GP-224	GP-225	GP-225	GP-225	GP-226	GP-226	GP-226	GP-226	GP-226	GP-227
	Direct Contact Pathway		Groundwater Pathway	(3-4)	(7-8)	(18.5-19.5)	(3-4)	(7-8)	(18-19)	(2-3)	(6-7)	(6-7) FD	(9-10)	(16.5-17.5)	(3-4)
	Non-Industrial	Industrial		12/16/11	12/16/11	12/16/11	12/16/11	12/16/11	12/16/11	12/16/11	12/16/11	12/16/11	12/16/11	12/16/11	12/16/11
VOCs (µg/kg)															
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	45.2 ^J	<25	<25	524 ^C	<25	<25	<25	<25	<25	<25	101
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	75.9 ^J	<25	<25	180	<25	<25
1,1-Dichloroethene	342,000	1,190,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	83.2	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<25	56 ^{JC}	30.2 ^J	47.2 ^{JC}	245 ^C	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
n-Butylbenzene	108,000	108,000	--	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	49.2 ^J	<40.4	<40.4
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	<25	<25	35.1 ^J	<25	<25	276	<25	<25
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	44.6 ^J	<25	279
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,070	153,000	4.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	73 ^C	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	145 ^C	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<26	<25	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	<27	<75	<75	<75	<75	<75	<75	<75	<75	<75
Diesel Range Organics (mg/kg)	--	--	--	161	36.1	<28 ^b	6.5 ^b	56.1	8.3 ^b	6,000	541	499	NT	37.1	16,000

Table 8a
CS2 Detected Volatile Organic Compounds in Soil at Soil Probe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-227	GP-227	GP-227	GP-228	GP-228	GP-228	GP-228	GP-231	GP-231	GP-231	GP-232	GP-232	GP-233
	Direct Contact Pathway		Groundwater	(7-8)	(11-12)	(16.5-17.5)	(2-3)	(7-8)	(10-11)	(22-23)	(3-4)	(8-9)	(10-11)	(3-4)	(7-8)	(3-4)
	Non-Industrial	Industrial	Pathway	12/16/11	12/16/11	12/16/11	12/19/11	12/19/11	12/19/11	12/19/11	03/24/14	03/24/14	03/24/14	03/24/14	03/24/14	03/24/14
VOCs (µg/kg)																
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<100	<25	<25	<50	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<100	<25	<25	<50	<25	<25	<25	<25
1,1-Dichloroethene	342,000	1,190,000	5	<25	<25	<25	<25	<25	<100	<25	<25	<50	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	187	<25	<25	40.3 ^J	1,600 ^C	<25	<25	<50	<25	<25	76.8	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	45.8 ^J	<25	<25	<25	459	<25	<25	<50	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<100	<25	<25	<50	274 ^C	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<100	<25	<25	<50	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<100	<25	<25	<50	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	<25	<25	151 ^J	<25	<25	301	181	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	48.8 ^{JC}	<25	<100	<25	<25	<50	<25	<25	<25	<25
n-Butylbenzene	108,000	108,000	--	<40.4	111	<40.4	<40.4	<40.4	<162	<40.4	<25	1,000	560	<25	76.3	42.2 ^J
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	<25	<25	343	<25	<25	642	427	<25	30 ^J	<25
Naphthalene	5,150	26,000	658.7	76.2	409	<25	<25	112	4,450 ^C	<25	<40	758 ^C	557	<40	320	146 ^J
p-Isopropyltoluene	162,000	162,000	--	1,970	44.1 ^J	<25	<25	<25	492	<25	<25	<50	80	<25	38.9 ^J	<25
sec-Butylbenzene	145,000	145,000	--	<25	39.6 ^J	<25	<25	46.1 ^J	<100	<25	<25	705	378	<25	31.5 ^J	<25
tert-Butylbenzene	183,000	183,000	--	<25	<25	<25	<25	<25	<100	<25	<25	72.7 ^J	43 ^J	<25	<25	<25
Tetrachloroethene	30,070	153,000	4.5	<25	<25	<25	<25	<25	<100	<25	<25	<50	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<100	<25	<25	<50	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<100	<25	<25	<50	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	<25	<100	<25	<25	<50	<25	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<100	<25	<25	<50	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<77.4	<77.4	396 ^J	<77.4	<75	<150	<75	<75	<75	<75
Diesel Range Organics (mg/kg)	--	--	--	26,000	NT	73.2	103	34.7	NT	9.7	117 ^J	NT	NT	874 ^J	NT	422 ^J

Table 8a
CS2 Detected Volatile Organic Compounds in Soil at Soil Probe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-233 (5-6) 03/24/14	GP-234 (3-4) 03/24/14	GP-234 (8-9) 03/24/14	GP-235 (3-4) 03/24/14	GP-235 (8-9) 03/24/14	GP-236 (3-4) 03/24/14	GP-236 (7.5-8.5) 03/24/14
	Direct Contact Pathway		Groundwater Pathway							
	Non-Industrial	Industrial								
VOCs (µg/kg)										
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	40.5 ^J	<25	<25
1,1-Dichloroethene	342,000	1,190,000	5	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	45.1 ^J	971	111	295
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	266	58.5 ^J	91.3
Benzene	1,490	7,410	5.1	<25	34.4 ^{JC}	<25	55.5 ^{JC}	304 ^C	93.1 ^C	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	436 ^C	<25	2,640 ^C	53.6 ^{JC}
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	<25	53.5 ^J	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	<25	<25
n-Butylbenzene	108,000	108,000	--	<25	<25	110	<25	201	<25	145
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	<25	131	<25	31.4 ^J
Naphthalene	5,150	26,000	658.7	113 ^J	<40	649	56 ^J	76 ^J	2,690 ^C	2,490 ^C
p-Isopropyltoluene	162,000	162,000	--	<25	49.1 ^J	<25	<25	97.8	63.3 ^J	60 ^J
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<25	97.2	<25	36.2 ^J
tert-Butylbenzene	183,000	183,000	--	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,070	153,000	4.5	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	31.5 ^J	52.1 ^J	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	50.4 ^J	<25	339 ^C	<25
Trichloroethene	1,260	8,810	3.6	<25	32.4 ^{JC}	<25	1,810 ^{AC}	<25	117 ^C	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	228 ^{AC}	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<75	179.6 ^J	51.2 ^J	104 ^J
Diesel Range Organics (mg/kg)	--	--	--	NT	8,120 ^J	NT	NT	NT	NT	NT

Notes:

VOCs = Volatile Organic Compounds

mg/kg = Milligrams per kilogram ug/kg = Micrograms per kilogram

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact

^B = Parameter exceeds Generic RCL for Industrial Direct Contact

^C = Parameter exceeds Generic RCL for Groundwater Pathway

^J = Estimated concentration between the Method Detection Limit (MDL) & Reporting Limit (RL)

^D = Analyte was detected in the method blank

-- = No generic RCL established

DUP/D/FD = Field duplicate

NT = Not Tested

Generic RCLs June 2014 per WDNR PUB-RR-890.

Table 8b
CS2 Detected Volatile Organic Compounds in Soil at Monitoring Well and Piezometer Locations
Kenosha Engine Plant

Parameters	Generic RCLs			PZ-48 (2-3)	PZ-48 (6-7)	PZ-48 (22-23)	PZ-54 (3-4)	PZ-54 (5-6)	PZ-54 (12-13)	MW-105 6-7'	PZ-200 (2-3)	PZ-200 (7-8)	PZ-200 (12-13)	PZ-200 (22-23)	MW-201 (2-4)	MW-201 (2-4) FD
	Direct Contact Pathway		Groundwater Pathway													
	Non-Industrial	Industrial														
VOCs (µg/kg)																
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethene	342,000	1,190,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	1,100	<25	<25	83.4	136
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	286	<25	<25	<25	55.4 ^J
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	10,100 ^C	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	42 ^J	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	<25	<25	<25	<25	<25	41.5 ^J	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
n-Butylbenzene	108,000	108,000	--	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	680	<40.4	<40.4	<40.4	50.7 ^J
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	<25	<25	<25	<25	<25	110	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	<25	<25	<25	<25	2,190 ^C	<25	<25	89.8	147
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	<25	<25	<25	<25	<25	227	<25	<25	<25	34 ^J
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<25	<25	<25	<25	<25	154	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,070	153,000	4.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	55.5 ^J	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	178 ^C	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	1,210 ^{AC}	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<75	<77.4	203 ^J	<77.4	<77.4	<77.4	<77.4
Diesel Range Organics (mg/kg)	--	--	--	3.4	3.7	12.8	3.7 ^J	18.6	12.8	NT	5.3	15,500	NT	11.8	11,400	6,140

Table 8b
CS2 Detected Volatile Organic Compounds in Soil at Monitoring Well and Piezometer Locations
Kenosha Engine Plant

Parameters	Generic RCLs			MW-201 (7-8) 12/22/11	PZ-203 (3-4) 03/24/14	PZ-203 (7-8) 03/24/14	PZ-203 (18-19) 03/24/14	MW-204 (2.5-4) 03/24/14	MW-204 (7-8) 03/24/14	MW-204 (9-10) 03/24/14	PZ-205 (2-3) 03/24/14	PZ-205 (2-3) FD 03/24/14	PZ-205 (8-9) 03/24/14	PZ-205 (17-18) 03/24/14	MW-206 (3-4) 03/24/14	MW-206 (7-8) 03/24/14
	Direct Contact Pathway		Groundwater Pathway													
	Non-Industrial	Industrial														
VOCs (µg/kg)																
1,1,1-Trichloroethane	640,000	640,000	140.2	<62.5	<25	<25	<25	<25	<25	<250	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<62.5	<25	52.1 ^J	<25	<25	<25	<250	69.8 ^J	363 ^J	73.2	<25	<25	<25
1,1-Dichloroethene	342,000	1,190,000	5	<62.5	<25	<25	<25	<25	<25	<250	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	335	<25	87.4	<25	<25	<25	3,600 ^C	<25	<25	44.4 ^J	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<62.5	<25	<25	<25	<25	<25	790	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	105 ^{JC}	<25	<25	<25	<25	<25	<250	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<62.5	33.8 ^J	311 ^C	<25	<25	<25	<250	<25	33.6 ^J	43.9 ^{JC}	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<62.5	<25	<25	<25	<25	<25	<250	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	156 ^J	<25	<25	<25	<25	<25	<250	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<62.5	<25	<25	<25	<25	<25	<250	<25	<25	<25	<25	<25	<25
n-Butylbenzene	108,000	108,000	--	728	<25	51.8 ^J	<25	<25	<25	1,440	<25	32.5 ^J	65.8 ^J	<25	<25	<25
n-Propylbenzene	264,000	264,000	--	397	<25	34.9 ^J	<25	<25	<25	366 ^J	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	1,890 ^C	<40	48.6 ^J	<40	<40	52.2 ^J	6,180 ^{AC}	66.2 ^J	132 ^J	118 ^J	<40	<40	<40
p-Isopropyltoluene	162,000	162,000	--	294	<25	<25	<25	<25	<25	548 ^J	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	--	483	<25	<25	<25	<25	<25	485 ^J	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	--	<62.5	<25	<25	<25	<25	<25	<250	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,070	153,000	4.5	<62.5	<25	<25	<25	<25	<25	<250	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<62.5	<25	<25	<25	<25	<25	<250	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<62.5	<25	<25	<25	<25	<25	<250	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<62.5	<25	29.5 ^{JC}	<25	<25	<25	<250	<25	<25	<25	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<62.5	246 ^{AC}	3,150 ^{ABC}	<25	<25	<25	269 ^{JAC}	108 ^{AC}	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<194	<25	<25	<25	<25	<25	<250	<25	<25	<75	<75	<25	<25
Diesel Range Organics (mg/kg)	--	--	--	15,100	NT	NT	NT	8.7 ^J	NT	NT	2700 ^J	4180 ^J	NT	NT	1,950 ^J	NT

Notes:

VOCs = Volatile Organic Compounds

mg/kg = Milligrams per kilogram. ug/kg = Micrograms per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

-- = No generic RCL established.

DUP/D/FD = Field duplicate.

NT=Not Tested

Generic RCLs June 2014 per WDNR PUB-RR-890.

Soil samples from well pairs were collected from piezometer locations.

Table 8c
CS2 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Parameters	Generic RCLs			PZ-48 (2-3) 12/23/11	PZ-48 (6-7) 12/23/11	PZ-54 (3-4) 12/22/11	PZ-54 (5-6) 12/22/11	GP-SL-59 (1-2) 05/23/11	GP-SL-60 (2-3) 05/23/11	GP-SL-60 (2-3)D 05/23/11	GP-SL-61 (1-2) 05/26/11	MW-105 6-7' 12/01/10	PZ-200 (2-3) 12/22/11	PZ-200 (7-8) 12/22/11	MW-201 (2-4) 12/22/11	MW-201 (2-4) FD 12/22/11	
	Direct Contact Pathway		Groundwater Pathway														
	Non-Industrial	Industrial															
PAHs (µg/kg)																	
1-Methylnaphthalene	15,600	53,100	23,000	<2.8	<2.9	<2.9	<2.9	94.1 ^J	3470	1220	20.4	<3.0	<2.6	1,190	474	763	
2-Methylnaphthalene	229,000	2,200,000	20,000	<2.8	<2.9	<2.9	<2.9	121 ^J	6430	1980	44.7	<3.0	<2.6	1,410	546	1,130	
Acenaphthene	3,440,000	33,000,000	38,000	<2.6	<2.7	<2.7	<2.6	40 ^J	263 ^J	174	<13.4	<2.8	<2.4	396	259 ^J	207	
Acenaphthylene	18,000	360,000	700	<2.9	<3	<3	<3	405	183 ^J	102 ^J	<15.2	<3.2	<2.8	97.3 ^J	107 ^J	155 ^J	
Anthracene	17,200,000	100,000,000	197,727.3	<4.3	<4.4	<4.4	<4.4	330	244 ^J	127 ^J	25.2	<4.6	<4	125 ^J	186 ^J	189 ^J	
Benzo(a)anthracene	148	2,110	17,000	<2.6	<2.7	<2.7	<2.7	508 ^A	188 ^{JA}	148 ^{JA}	71.1	<2.8	<2.5	63.3 ^J	324 ^{JA}	228 ^A	
Benzo(a)pyrene	15	211	470	<3	<3.1	<3.1	<3.1	856 ^{ABC}	93.2 ^{JA}	89.5 ^{JA}	<15.6	<3.3	<2.8	<35.9	316 ^{JAB}	281 ^{AB}	
Benzo(b)fluoranthene	148	2,110	479.3	<3.2	<3.3	<3.3	<3.2	988 ^{AC}	87.8 ^J	59 ^J	77	10.5 ^{Jb}	<3	<37.9	500 ^{AC}	384 ^A	
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	<2.4	<2.5	<2.5	<2.5	825	<53.6	58.9 ^J	15.7	<2.6	<2.3	<29	247 ^J	387	
Benzo(k)fluoranthene	1,480	21,100	870,000	<3.4	<3.5	<3.5	<3.5	809	<75.4	44.2 ^J	40	<3.7	<3.2	<40.7	375 ^J	275	
Chrysene	14,800	211,000	144.6	<3.3	<3.4	<3.4	5.5 ^J	653 ^C	327 ^{JC}	236 ^C	331 ^C	<3.6	<3.1	114 ^J	506 ^C	562 ^C	
Dibenz(a,h)anthracene	15	211	38,000	<5	<5.1	<5.1	<5.1	250 ^{AB}	<111	<44.4	69.3 ^A	<5.4	<4.7	<59.7	<122	114 ^{JA}	
Fluoranthene	2,290,000	22,000,000	88,877.8	<9.1	<9.4	<9.4	<9.3	1090	255 ^J	184	52.6	<10	<8.7	304	1,130	665	
Fluorene	2,290,000	22,000,000	14,802.7	<4.5	<4.7	<4.7	<4.6	43.7 ^J	610	195	<23.8	<5.0	<4.3	602	231 ^J	213	
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	<2.6	<2.7	<2.7	<2.7	687 ^A	<57.7	30.6 ^J	73.2	<2.8	<2.5	<31.2	236 ^{JA}	336 ^A	
Naphthalene	5,150	26,000	658.2	<3.2	<3.3	<3.3	<3.3	462	1730 ^C	748 ^C	27.6	<3.5	<3	349	140 ^J	537	
Phenanthrene	18,000	390,000	1,800	<4	<4.2	<4.2	5.1 ^J	644	1810 ^C	1050	115	<4.4	<3.8	2,190 ^C	656	819	
Pyrene	1,720,000	16,500,000	54,132.2	<3.3	<3.5	<3.5	5.4 ^J	928	500	396	209	<3.7	<3.2	304	1,650	1,260	
DRO				3.4	3.7	3.7	18.6	NT	NT	NT	NT	NT	5.3	15,500	11,400	6,140	

Table 8c
CS2 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Parameters	Generic RCLs			MW-201 (7-8) 12/22/11	PZ-203 (3-4) 03/24/14	MW-204 (2.5-4) 03/24/14	MW-204 (9-10) 03/24/14	PZ-205 (2-3) 03/24/14	PZ-205 (2-3) FD 03/24/14	GP-211 (2-3) 12/14/11	GP-211 (6-7) 12/14/11	GP-212 (3-4) 12/14/11	GP-212 (6.5-7.5) 12/14/11	GP-213 (3-4) 12/15/11	GP-213 (6-7) 12/15/11
	Direct Contact Pathway		Groundwater Pathway												
	Non-Industrial	Industrial													
PAHs (µg/kg)															
1-Methylnaphthalene	15,600	53,100	23,000	3040	<8.9	<9.2	13900	606 ^J	337 ^J	657 ^J	8.1 ^J	43 ^J	182	21.7 ^J	<3.1
2-Methylnaphthalene	229,000	2,200,000	20,000	3770	<8.9	<9.2	17000	194 ^J	154 ^J	1,230	7.9 ^J	75.3 ^J	212	47 ^J	<3.1
Acenaphthene	3,440,000	33,000,000	38,000	926	<8.9	<9.2	3260	244	<86.1	1,510	85.4	<13.4	122	<13.9	9.5 ^J
Acenaphthylene	18,000	360,000	700	205 ^J	<7.9	<8.3	1430 ^{JC}	<96.5	<77.1	<126	9.9 ^J	<15.1	23.1 ^J	<15.8	3.5 ^J
Anthracene	17,200,000	100,000,000	197,727.3	689	<9.2	<9.6	2160	282	153 ^J	1,480	47.1	26.2 ^J	64.1	28.7 ^J	<4.7
Benzo(a)anthracene	148	2,110	17,000	612 ^A	<6.2	11.4 ^J	<613	170 ^{JA}	94.6 ^J	1,120 ^A	41.8	32.1 ^J	88.8	47 ^J	7.3 ^J
Benzo(a)pyrene	15	211	470	224 ^{JAB}	<6.3	12.5 ^J	<633	126 ^{JA}	76.1 ^{JA}	277 ^{JAB}	10.4 ^J	25.9 ^{JA}	25 ^{JA}	26.2 ^{JA}	3.4 ^J
Benzo(b)fluoranthene	148	2,110	479.3	286 ^{JA}	<8.9	13.8 ^J	<885	146 ^J	92.5 ^J	470 ^{JA}	17.7 ^J	29.2 ^J	37.4 ^J	33.2 ^J	6.1 ^J
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	92.2 ^J	<6.8	11.2 ^J	<674	<82.2	<65.6	155 ^J	3.6 ^J	71.8 ^J	9.9 ^J	50.1 ^J	<2.7
Benzo(k)fluoranthene	1,480	21,100	870,000	277 ^J	<9.8	15.4 ^J	<979	143 ^J	<95.3	401 ^J	12.5 ^J	26 ^J	33.5 ^J	24.1 ^J	<3.7
Chrysene	14,800	211,000	144.6	781 ^C	<8.2	19.1	<818	227 ^C	141 ^J	1,610 ^C	57	245 ^C	124	98.8 ^J	16.6 ^J
Dibenz(a,h)anthracene	15	211	38,000	<97	<6.5	<6.8	<649	<79.1	<63.2	<216	<5.3	<25.9	<16.2	<26.9	<5.5
Fluoranthene	2,290,000	22,000,000	88,877.8	2,290	<8.9	22.9	1300 ^J	938 ^J	543 ^J	6,440	237	113	488	81.8 ^J	31.9
Fluorene	2,290,000	22,000,000	14,802.7	3,190	<8.9	<9.2	11100	1420 ^J	759 ^J	1,140	139	<23.6	215	<24.6	5.9 ^J
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	91.8 ^J	<6.7	8.9 ^J	<672	<82	<65.4	<113	2.9 ^J	26.8 ^J	<8.5	18.6 ^J	<2.9
Naphthalene	5,150	26,000	658.2	1,460 ^C	<8.9	<9.2	4660 ^C	<108	<86.1	2,690 ^C	8.8 ^J	42.5 ^J	92.7	55.2 ^J	<3.5
Phenanthrene	18,000	390,000	1,800	8,250 ^C	13.7 ^J	17.7 ^J	31700 ^{AC}	3290 ^{JC}	1880 ^{JC}	16,200 ^C	260	213	838	219	24.9
Pyrene	1,720,000	16,500,000	54,132.2	2,010	<8.9	22	<885	690	420	5,210	171	271	340	77.4 ^J	39.2
DRO				15,100	NT	8.7		2,700	4,180	9,710	1,710	43	73.5	2,430	200

Table 8c
CS2 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Parameters	Generic RCLs			GP-214 (2-3) 12/15/11	GP-215 (2-4) 12/19/11	GP-215 (6-7) 12/19/11	GP-216 (3-4) 12/15/11	GP-216 (5-7) 12/15/11	GP-218 (2-3) 12/15/11	GP-218 (6-7) 12/15/11	GP-220 (3-4) 12/19/11	GP-220 (6-7) 12/19/11	GP-221 (3-4) 12/19/11	GP-221 (5-6) 12/19/11	GP-222 (3-4) 12/16/11	GP-222 (7-8) 12/16/11
	Direct Contact Pathway		Groundwater Pathway													
	Non-Industrial	Industrial														
PAHs (µg/kg)																
1-Methylnaphthalene	15,600	53,100	23,000	51	200	572	4.2 ^J	<3	1,300	161	5.5 ^J	217	429	9,390	1,360	1,590
2-Methylnaphthalene	229,000	2,200,000	20,000	68	297	838	4.5 ^J	<3	2,000	188	7.3 ^J	204	334	8,080	1,880	1,930
Acenaphthene	3,440,000	33,000,000	38,000	46.6	11.2 ^J	35.1 ^J	3.8 ^J	<2.8	491	9.6 ^J	<2.6	33.1	617	804	1,260	778
Acenaphthylene	18,000	360,000	700	7.4 ^J	4.8 ^J	6.8 ^J	<3.5	<3.2	26.1 ^J	7.5 ^J	<3	17.2 ^J	124 ^J	211 ^J	<131	127 ^J
Anthracene	17,200,000	100,000,000	197,727.3	97.5	12.3 ^J	34.3 ^J	10.1 ^J	<4.6	49.5 ^J	12.4 ^J	<4.4	37.9	707	534	3,410	3,640
Benzo(a)anthracene	148	2,110	17,000	157 ^A	13.2 ^J	9.3 ^J	32.1	3.8 ^J	34.5 ^J	6.9 ^J	6.9 ^J	13.2 ^J	474 ^A	141 ^J	401 ^{JA}	288 ^{JA}
Benzo(a)pyrene	15	211	470	162 ^A	15.8 ^{JA}	<6.8	32 ^A	<3.2	<14.2	<3.5	6.4 ^J	6.8 ^J	368 ^{AB}	111 ^{JA}	<134	<118
Benzo(b)fluoranthene	148	2,110	479.3	152 ^A	23	<7.2	28	<3.4	27.3 ^J	<3.7	7.7 ^J	5.3 ^J	137	<76.1	<142	<125
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	76.4	21.3	<5.5	18.8 ^J	2.9 ^J	12.8 ^J	<2.9	3 ^J	4 ^J	390	70.6 ^J	<109	<95.3
Benzo(k)fluoranthene	1,480	21,100	870,000	155	16 ^J	<7.7	24.1	<3.7	<16.1	<4	7.9 ^J	<3.4	66.2 ^J	<81.7	<153	<134
Chrysene	14,800	211,000	144.6	179 ^C	19.3 ^J	20.1 ^J	48.4	6.9 ^J	51.5 ^J	12.3 ^J	10.1 ^J	23.9	931 ^C	347 ^{JC}	356 ^{JC}	316 ^{JC}
Dibenz(a,h)anthracene	15	211	38,000	25.3 ^A	<5.7	<11.3	<6	<5.4	<23.6	<5.9	<5.1	<5	76.7 ^{JA}	<120	<224	<196
Fluoranthene	2,290,000	22,000,000	88,877.8	401	16 ^J	<20.8	80	<9.9	79.2 ^J	13.9 ^J	13.9 ^J	20.4	382	<220	1,920	1,610
Fluorene	2,290,000	22,000,000	14,802.7	39.2	13.3 ^J	48.3	7.3 ^J	<4.9	515	56.4	<4.7	120	613	911	13,300	12,700
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	71.4	17.5 ^J	<5.9	14.7 ^J	<2.8	<12.3	<3.1	2.8 ^J	<2.6	108 ^J	<62.5	<117	<103
Naphthalene	5,150	26,000	658.2	77.5	250	911 ^C	17.6 ^J	<3.5	1,750 ^C	49.7	8.7 ^J	69.3	438	1,100 ^C	1,960 ^C	421 ^J
Phenanthrene	18,000	390,000	1,800	387	63	153	77	10.7 ^J	497	252	16.6 ^J	224	194 ^J	2,400 ^C	16,100 ^C	15,600 ^C
Pyrene	1,720,000	16,500,000	54,132.2	334	40.1	69.2	98.6	8.2 ^J	63.1 ^J	14.3 ^J	12.7 ^J	59	3160	1060	2120	1840
DRO				35	18.4	7.8	7.6	10.9	2,040	500	389	197	1,390	1,960	6,130	4,520

Table 8c
CS2 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Parameters	Generic RCLs			GP-223 (3-4) 12/19/11	GP-224 (3-4) 12/16/11	GP-224 (7-8) 12/16/11	GP-225 (3-4) 12/16/11	GP-225 (7-8) 12/16/11	GP-226 (2-3) 12/16/11	GP-226 (6-7) 12/16/11	GP-226 (6-7) FD 12/16/11	GP-227 (3-4) 12/16/11	GP-227 (7-8) 12/16/11	GP-228 (2-3) 12/19/11	GP-228 (7-8) 12/19/11
	Direct Contact Pathway		Groundwater Pathway												
	Non-Industrial	Industrial													
PAHs (µg/kg)															
1-Methylnaphthalene	15,600	53,100	23,000	878	<3	3.4 ^J	<3.1	<2.8	43.7 ^J	<73.5	<97.5	22.8 ^J	293	14.9 ^J	12.4 ^J
2-Methylnaphthalene	229,000	2,200,000	20,000	1,460	<3	4.4 ^J	4.9 ^J	<2.8	79.2 ^J	<73.5	<97.5	43.3 ^J	304	30.4	16.7 ^J
Acenaphthene	3,440,000	33,000,000	38,000	200	<2.8	<2.6	<2.8	<2.5	154	327 ^J	505 ^J	<11.9	130 ^J	<2.6	<2.7
Acenaphthylene	18,000	360,000	700	65.9 ^J	<3.2	<2.9	<3.2	<2.9	41.3 ^J	<76.7	<102	32 ^J	56.9 ^J	<3	<3.1
Anthracene	17,200,000	100,000,000	197,727.3	395	<4.6	<4.3	<4.7	<4.2	448	804	1,350	29.9 ^J	617	4.4 ^J	<4.5
Benzo(a)anthracene	148	2,110	17,000	479 ^A	<2.8	<2.6	<2.9	<2.6	54.1 ^J	<68.4	<90.8	<12	60.2 ^J	18.8	<2.7
Benzo(a)pyrene	15	211	470	173 ^A	<3.3	<3	<3.3	<3	107 ^{JA}	<78.8	<105	<13.9	35.5 ^{JA}	10.6 ^J	<3.2
Benzo(b)fluoranthene	148	2,110	479.3	254 ^A	<3.5	<3.2	<3.5	<3.1	78.3 ^J	<83.2	<110	<14.7	<35.7	23.8	<3.3
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	86.1 ^J	<2.6	<2.4	<2.7	<2.4	105 ^J	<63.6	<84.4	<11.2	<27.3	8.4 ^J	<2.5
Benzo(k)fluoranthene	1,480	21,100	870,000	251	<3.7	<3.4	<3.7	<3.4	119 ^J	<89.4	<119	<15.7	<38.4	13 ^J	<3.6
Chrysene	14,800	211,000	144.6	973 ^C	4.5 ^J	5.8 ^J	<3.6	4.5 ^J	1,100 ^C	212 ^{JC}	278 ^{JC}	45.7 ^J	91.7 ^J	55.6	3.5 ^J
Dibenz(a,h)anthracene	15	211	38,000	62.9 ^{JA}	<5.4	<5	<5.5	<4.9	<40.3	<131	<174	<23.1	<56.3	7.2 ^J	<5.3
Fluoranthene	2,290,000	22,000,000	88,877.8	1590	<10	<9.2	<10	<9	405	536	892	<42.4	282	17.4 ^J	<9.6
Fluorene	2,290,000	22,000,000	14,802.7	763	<5	<4.6	<5	<4.5	3,260	8,390	13,000	<21.1	3,780	<4.6	<4.8
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	61.1 ^J	<2.8	<2.6	<2.9	<2.6	69.4 ^J	<68.4	<90.8	<12	<29.4	5.8 ^J	<2.7
Naphthalene	5,150	26,000	658.2	1,640 ^C	<3.5	<3.2	6.7 ^J	<3.2	46.5 ^J	<84.2	<112	25.7 ^J	54.1 ^J	21.5	35.8
Phenanthrene	18,000	390,000	1,800	3,610 ^C	8.6 ^J	5.4 ^J	<4.4	<4	470	3,190 ^C	5,540 ^C	182	3,190 ^C	79.2	<4.2
Pyrene	1,720,000	16,500,000	54,132.2	1420	<3.7	<3.4	<3.7	<3.3	1,840	871	1,160	106	288	21.8	<3.5
DRO				9,810					6,000	541	499	16,000	26,000	103	34.7

Table 8c
CS2 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Parameters	Generic RCLs			GP-229 (3-4) 12/19/11	GP-229 (3-4) FD 12/19/11	GP-229 (8-9) 12/19/11	GP-230 (3-4) 12/19/11	GP-231 (10-11) 03/24/14	GP-235 (3-4) 03/24/14	GP-236 (3-4) 03/24/14
	Direct Contact Pathway		Groundwater Pathway							
	Non-Industrial	Industrial								
PAHs (µg/kg)										
1-Methylnaphthalene	15,600	53,100	23,000	<26.9	<13.3	255	4.8 ^J	1,740	50.5	1,030
2-Methylnaphthalene	229,000	2,200,000	20,000	<26.9	<13.3	307	5 ^J	216 ^J	86.8	1,670
Acenaphthene	3,440,000	33,000,000	38,000	<24.8	<12.2	172	3.7 ^J	717	<10.8	831
Acenaphthylene	18,000	360,000	700	<28.1	<13.8	34.4 ^J	23.8	<185	<9.7	<47
Anthracene	17,200,000	100,000,000	197,727.3	<41	<20.2	767	22.7	500	13.7 ^J	129 ^J
Benzo(a)anthracene	148	2,110	17,000	<25.1	<12.3	99.8	54.5	308 ^{JA}	13.3 ^J	93 ^J
Benzo(a)pyrene	15	211	470	78.7 ^{JA}	69.8 ^{JA}	79.3 ^{JA}	85.4 ^A	<148	9.4 ^J	46.3 ^{JA}
Benzo(b)fluoranthene	148	2,110	479.3	<30.5	<15	<16	132	<207	12.3 ^J	62.2 ^J
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	26.4 ^J	28.1 ^J	33.1 ^J	38.3	<158	13.7 ^J	<40
Benzo(k)fluoranthene	1,480	21,100	870,000	<32.8	<16.1	<17.1	101	<229	<12	<58.1
Chrysene	14,800	211,000	144.6	68.5 ^J	61.1 ^J	203 ^C	130	424 ^C	25.5	229 ^C
Dibenz(a,h)anthracene	15	211	38,000	<48	<23.6	<25.1	12.2 ^J	<152	<7.9	<38.5
Fluoranthene	2,290,000	22,000,000	88,877.8	<88.2	<43.4	588	301	1,320	28.5	350
Fluorene	2,290,000	22,000,000	14,802.7	<43.9	<21.6	2,680	8.5 ^J	1,090	<10.8	290
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	<25.1	<12.3	21.5 ^J	39.3	<157	9.1 ^J	<39.9
Naphthalene	5,150	26,000	658.2	<30.9	<15.2	69.9 ^J	3.7 ^J	261 ^J	78.3	944 ^C
Phenanthrene	18,000	390,000	1,800	63 ^J	33.9 ^J	3,360 ^C	201	4,580 ^C	95.6	749
Pyrene	1,720,000	16,500,000	54,132.2	122 ^J	86.7 ^J	704	230	1,050	38.1	471
DRO										

Notes:

PAHs = Polycyclic Aromatic Hydrocarbons

mg/kg = Milligrams per kilogram. µg/kg = Micrograms per kilogram

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact

^B = Parameter exceeds Generic RCL for Industrial Direct Contact

^C = Parameter exceeds Generic RCL for Groundwater Pathway

^J = Estimated concentration between the Method Detection Limit (MDL) & Reporting Limit (RL)

^D = Analyte was detected in the method blank.

^{*/} = Value estimated due to matrix effect (* = biased high) (/ = biased low)

DUP/D/FD = Field duplicate

Generic RCLs June 2014 per WDNR PUB-RR-890

Sample locations not analyzed for PAHs, are not listed on the table

**Table 8d
CS2 Metals in Soil
Kenosha Engine Plant**

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-48 (2-3)	PZ-54 (3-4)	GP-SL-59 (1-2)	GP-SL-60 (2-3)	GP-SL-60 (2-3)D	GP-SL-61 (1-2)	PZ-200 (2-3)	MW-201 (2-4)	MW-201 (2-4) FD	GP-211 (2-3)
	Direct Contact Pathway		Groundwater Pathway	12/23/11	12/22/11	05/23/11	05/23/11	05/23/11	05/26/11	12/22/11	12/22/11	12/22/11	12/14/11
	Non-Industrial	Industrial											
Metals (mg/kg)													
Arsenic	0.613	2.39	0.584	5.1 ^{ABC}	2.2 ^{ABC}	122 ^{ABC}	4.1 ^{ABC}	5.3 ^{ABC}	33.9 ^{ABC}	1.7 ^{JAC}	9 ^{ABC}	6.1 ^{ABC}	6.2 ^{ABC}
Barium	15,300	100,000	164.8	18.5	35.5	112	564 ^C	172 ^C	90.4	4.7	104	91.1	149
Cadmium	70	799	0.752	0.12 ^J	0.1 ^J	2.5 ^C	0.25 ^J	0.68	8.4 ^C	0.076 ^J	0.13 ^J	0.29 ^J	0.41 ^J
Chromium	100,000	100,000	360	6.6	9.4	65.9	27.6	17.7	126	5.1	28.2	21.2	19.6
Copper	3,130	40,900	91.6	14.9	10.5	407 ^C	362 ^C	282 ^C	372 ^C	1.3	12.6	20.1	18.3
Lead	400	800	27	7.2	5.7	407 ^{AC}	84.8 ^C	70.3 ^C	94.6 ^C	0.83 ^J	11	13.6	14.2
Mercury	3.13	3.13	0.208	0.0064	0.0091	0.23 ^C	0.014	0.027	0.014	0.007	0.044	0.026	0.017
Nickel	1,550	19,800	13.1	9.8	8.9	52.5 ^C	95.6 ^C	27.5 ^C	457 ^C	2.1	20.2 ^C	15.4 ^C	15.5 ^C
Selenium	391	5,110	0.52	0.37 ^J	<0.33	0.66 ^{JCb}	<0.17	0.39 ^{Jb}	<1.6	<0.26	<0.37	0.43 ^J	0.57 ^{Jc}
Silver	391	5,110	0.85	<0.093	<0.097	0.37 ^J	0.22 ^J	0.21 ^J	1.2 ^C	<0.078	0.22 ^J	0.12 ^J	0.16 ^J
Zinc	23,500	100,000	--	27.5	43.1	NA	NA	NA	NA	1.1 ^J	58.9	173	55.4

**Table 8d
CS2 Metals in Soil
Kenosha Engine Plant**

Sample locations are presented numerically

Parameters	Generic RCLs			GP-212	GP-213	GP-214	GP-215	GP-216	GP-218	GP-220	GP-221	GP-222	GP-223
	Direct Contact Pathway		Groundwater Pathway	(3-4)	(3-4)	(2-3)	(2-4)	(3-4)	(2-3)	(3-4)	(3-4)	(3-4)	(3-4)
	Non-Industrial	Industrial		12/14/11	12/15/11	12/15/11	12/19/11	12/15/11	12/15/11	12/19/11	12/19/11	12/16/11	12/19/11
Metals (mg/kg)													
Arsenic	0.613	2.39	0.584	2.7 ^{ABC}	39.2 ^{ABC}	5.1 ^{ABC}	8.1 ^{ABC}	9.1 ^{ABC}	1.5 ^{JAC}	1.7 ^{JAC}	4.1 ^{ABC}	3.4 ^{ABC}	54.4 ^{ABC}
Barium	15,300	100,000	164.8	104	89.5	44.7	99.4	63.3	14.5	12.8	108	76.9	32.9
Cadmium	70	799	0.752	0.26 ^J	0.76 ^C	0.24 ^J	0.65	0.25 ^J	0.05 ^J	0.14 ^J	0.28 ^J	0.6	2.2 ^{JC}
Chromium	100,000	100,000	360	17.6	374 ^C	15.2	19.9	21	3.6	4.8	24.3	11	1770 ^C
Copper	3,130	40,900	91.6	16.1	1,570 ^C	41	109 ^C	16.1	4.6	6.7	49.8	136 ^C	581 ^C
Lead	400	800	27	11.8	1,440 ^{ABC}	21.2	47.5 ^C	13.9	6.7	25.6	24.6	30.3 ^C	76 ^C
Mercury	3.13	3.13	0.208	0.022	0.16	0.018	0.025	0.02	0.0038 ^J	<0.0025	0.026	0.096	<0.021
Nickel	1,550	19,800	13.1	13.9 ^C	738 ^C	29.2 ^C	44.9 ^C	13.1 ^C	4.3	4.1	47 ^C	11	228 ^C
Selenium	391	5,110	0.52	0.33 ^J	4.6 ^C	0.4 ^J	0.94 ^{JC}	0.52 ^{JC}	<0.28	<0.31	0.48 ^J	0.51 ^J	<0.3
Silver	391	5,110	0.85	0.1 ^J	1.8 ^C	0.22 ^J	0.22 ^J	0.24 ^J	<0.082	<0.093	0.14 ^J	0.12 ^J	4.2 ^C
Zinc	23,500	100,000	--	32.4	322	50.9	117	42.7	15.2	19.9	112	215	87.7

**Table 8d
CS2 Metals in Soil
Kenosha Engine Plant**

Sample locations are presented numerically

Parameters	Generic RCLs			GP-224	GP-225	GP-226	GP-227	GP-228	GP-229	GP-229	GP-230	GP-235
	Direct Contact Pathway		Groundwater Pathway	(3-4)	(3-4)	(2-3)	(3-4)	(2-3)	(3-4)	(3-4) FD	(3-4)	(3-4)
	Non-Industrial	Industrial		12/16/11	12/16/11	12/16/11	12/16/11	12/19/11	12/19/11	12/19/11	12/19/11	03/24/14
Metals (mg/kg)												
Arsenic	0.613	2.39	0.584	2.9 ^{ABC}	3.8 ^{ABC}	21.6 ^{ABC}	5.9 ^{ABC}	4.8 ^{ABC}	7.8 ^{ABC}	6.2 ^{ABC}	1.4 ^{JAC}	NT
Barium	15,300	100,000	164.8	95.6	112	345 ^C	27.2	52.1	19.1	16.1	9.1	NT
Cadmium	70	799	0.752	0.42 ^J	0.17 ^{Jb}	0.55 ^J	0.22 ^J	0.28 ^J	0.13 ^J	0.11 ^J	0.046 ^J	NT
Chromium	100,000	100,000	360	32.7	19.5	128	9.2	37.6	7.6	8.3	3.7	NT
Copper	3,130	40,900	91.6	21.9	59.3	1,400 ^C	24.8	27.1	21.5	13.7	3.1	NT
Lead	400	800	27	15.4	15.5	79.3 ^C	14.2	15.3	9.7	7.4	12.5	80.5 ^C
Mercury	3.13	3.13	0.208	0.029	0.011	0.028	0.018	0.0081	0.0079	0.012	0.027	NT
Nickel	1,550	19,800	13.1	22.4 ^C	15.9 ^C	28.5 ^C	13.2 ^C	150 ^C	9.2	8	2.8	NT
Selenium	391	5,110	0.52	0.85 ^{JC}	0.45 ^J	1.1 ^{JC}	0.33 ^J	0.39 ^J	0.36 ^J	<0.3	<0.3	NT
Silver	391	5,110	0.85	<0.093	1 ^J	0.9	0.12 ^J	0.16 ^J	0.11 ^J	<0.09	<0.089	NT
Zinc	23,500	100,000	--	79.9	58.1	111	49	60.5	46.1	36.7	14.7	NT

Notes: NT=Not Tested
mg/kg = Milligrams per kilogram
[^] = Parameter exceeds Generic RCL for Non-Industrial Direct Contact
[▫] = Parameter exceeds Generic RCL for Industrial Direct Contact
[∨] = Parameter exceeds Generic RCL for Groundwater Pathway
[∩] = Estimated concentration between the Method Detection Limit (MDL) & Reporting Limit (RL)
[∩] = Analyte was detected in the method blank
DUP/D/FD = Field duplicate
Generic RCLs June 2014 per WDNR PUB-RR-890
Sample locations not analyzed for metals, are not listed on the table



- MW-XXX EXISTING WATER TABLE MONITORING WELL (MW) OR PIEZOMETER (PZ)
- MW-XXX ABANDONED MONITORING WELL (MW) OR PIEZOMETER (PZ)
- GP-XXX SOIL PROBE
- GP-XXX SOIL PROBE - REFUSAL
- GP-XXX SOIL PROBE / TEMPORARY MONITORING WELLS
- GP-XXX PHASE II INVESTIGATION
- GP-SL-XX INTERIM INVESTIGATION

Kenosha Innovation Neighborhood
City of Kenosha
Project 60677460
January 23, 2024

**CS3 SOIL SAMPLE LOCATIONS
FORMER KENOSHA ENGINE PLANT
KENOSHA, WISCONSIN**



1555 N. RiverCenter Dr., Suite 214
Milwaukee, WI 53212
414-944-6080
www.aecom.com
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Figure CS3

Table 9a
CS3 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-321 (1-2) 12/13/11	GP-321 (6-7) 12/13/11	GP-321 (23-24) 12/13/11	GP-322 (2-3) 12/13/11	GP-322 (7-8) 12/13/11	GP-322 (7-8) FD 12/13/11	GP-322 (11-12) 12/13/11	GP-322 (17-18) 12/13/11	GP-323 (2-3) 12/14/11	GP-323 (6-7) 12/14/11	GP-324 (3-4) 12/14/11	GP-324 (6-7) 12/14/11	GP-325 (3-4) 12/15/11	
	Direct Contact Pathway		Groundwater Pathway														
	Non-Industrial	Industrial															
VOCs (µg/kg)																	
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<100	<312	<250	<2,000	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<100	<312	<250	<2,000	<25	<25	<25	64.5 ^J	<25	<25	<25
1,1-Dichloroethene	342,000	1,190,000	5	<25	<25	<25	<100	<312	<250	<2,000	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	658	11,100 ^C	9,030 ^C	64,200 ^C	<25	<25	<25	39.8 ^J	<25	<25	<25
1,2-Dichlorobenzene	376,000	376,000	1,168	<25	<25	<25	<100	<312	<250	<2,000	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	628	3,200 ^C	2,840	18,600 ^C	<25	<25	<25	<25	<25	<25	<25
1,3-Dichlorobenzene	297,000	297,000	1,152.80	<25	<25	<25	<100	<312	<250	<2,000	<25	<25	<25	<25	<25	<25	<25
1,4-Dichlorobenzene	3,480	17,500	144	<25	<25	<25	<100	<312	<250	<2,000	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<100	<312	<250	<2,000	<25	<25	<25	<25	<25	<25	<25
Chlorobenzene	392,000	761,000	----	<25	<25	<25	<100	<312	<250	<2,000	<25	<25	<25	<25	<25	<25	<25
Chloroethane	171,000	720,000	226.6	<25	<25	<25	<100	<312	<250	<2,000	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	1,170 ^C	<312	<250	<2,000	1,820 ^C	930 ^C	<25	180 ^C	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	145 ^J	5,530 ^C	4,940 ^C	28,400 ^{AC}	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	<100	9,430	7,870	53,800	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<100	<312	<250	<2,000	<25	<25	<25	<25	<25	<25	37.5 ^{JCb}
n-Butylbenzene	108,000	108,000	----	<40.4	<40.4	<40.4	<162	3,120	2,730	18,400	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4
n-Propylbenzene	264,000	264,000	----	<25	<25	<25	<100	1,570	1,180	8,340	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<100	3,790 ^C	2,970 ^C	32,100 ^{ABC}	<25	<25	<25	31.8 ^J	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	<100	1,640	1,270	9,490	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	<100	1,350	1,060	7,150	<25	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25	<100	<312	<250	<2,000	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	4.5	<25	<25	<25	235 ^{JC}	<312	<250	<2,000	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	729	<312	<250	<2,000	<25	<25	<25	28.5 ^J	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	163 ^{JC}	<312	<250	<2,000	<25	48.7 ^J	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	319 ^C	90.6 ^C	<25	31,800 ^{ABC}	<312	<250	<2,000	310 ^C	336 ^{AC}	<25	<25	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<100	<312	<250	<2,000	182 ^{AC}	<25	<25	187 ^{AC}	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<77.4	<77.4	<77.4	1,760	4,220 ^C	3,570	17,400 ^C	<77.4	<75	<75	<75	<75	<75	<75

Table 9a
CS3 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-325	GP-326	GP-326	GP-327	GP-327	GP-327	GP-328	GP-329	GP-329	GP-330	GP-330	GP-330	GP-331
	Direct Contact Pathway		Groundwater Pathway	(6-7)	(8-9)	(9-10)	(2-3)	(2-3) FD	(6-7)	(3-4)	(2-3)	(6-7)	(2-3)	(6-7)	(9-10)	(3-4)
	Non-Industrial	Industrial		12/15/11	12/14/11	12/14/11	12/13/11	12/13/11	12/13/11	12/13/11	12/13/11	12/13/11	12/13/11	12/14/11	12/14/11	12/14/11
VOCs (µg/kg)																
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	455 ^C	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethene	342,000	1,190,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	59.8 ^J	70.5	<25	<25	<25	<25	730	<25	<25	<25
1,2-Dichlorobenzene	376,000	376,000	1,168	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	303	<25	<25	<25
1,3-Dichlorobenzene	297,000	297,000	1,152.80	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,4-Dichlorobenzene	3,480	17,500	144	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Chlorobenzene	392,000	761,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Chloroethane	171,000	720,000	226.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<25	<25	72.3 ^C	<25	498 ^C	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25	49.4 ^J	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	61.7 ^J	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	36.6 ^{JCb}	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
n-Butylbenzene	108,000	108,000	----	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4
n-Propylbenzene	264,000	264,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	54.5 ^J	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<25	<25	<25	37.5 ^J	33.3 ^J	<25	86.6	<25	<25	358	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	62 ^J	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	63.9 ^J	<25	<25	<25
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	4.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	40.1 ^J	<25	<25	<25	<25	79.2	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	96.2	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	<25	<25	53.2 ^{Jc}	47.9 ^{Jc}	<25	1,190 ^C	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	263 ^{Ac}	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<77.4	157 ^J	<77.4	<77.4	<77.4	<77.4	277.7	<75	<75	<75

Table 9a
CS3 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-331	GP-332	GP-332	GP-333	GP-333	GP-333	GP-334	GP-334	GP-334	GP-334	GP-335	GP-335	GP-335
	Direct Contact Pathway		Groundwater Pathway	(6-7)	(1-2)	(4-5)	(3-4)	(6-7)	(9-10)	(1-2)	(8-9)	(17-18)	(21-22)	(3-4)	(9-10)	(18-19)
	Non-Industrial	Industrial		12/14/11	12/22/11	12/22/11	12/14/11	12/14/11	12/14/11	03/26/14	03/26/14	03/26/14	03/26/14	03/25/14	03/25/14	03/25/14
VOCs (µg/kg)																
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<200	<25	<25	<1,000	<125	<25	<25	<1,000
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<200	<25	<25	<1,000	<125	<25	<25	<1,000
1,1-Dichloroethene	342,000	1,190,000	5	<25	<25	<25	<25	<25	<200	<25	<25	<1,000	<125	<25	<25	<1,000
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	346 ^J	<25	<25	<1,000	<125	<25	<25	<1,000
1,2-Dichlorobenzene	376,000	376,000	1,168	<25	<25	<25	<25	<25	<200	<25	<25	<1,000	<125	<25	<25	<1,000
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	765	<25	<25	<1,000	<125	<25	<25	<1,000
1,3-Dichlorobenzene	297,000	297,000	1,152.80	<25	<25	<25	<25	<25	<200	<25	<25	<1,000	<125	<25	<25	<1,000
1,4-Dichlorobenzene	3,480	17,500	144	<25	<25	<25	<25	<25	<200	<25	<25	<1,000	<125	<25	<25	<1,000
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	34.8 ^{JC}	<200	<25	<25	<1,000	<125	<25	<25	<1,000
Chlorobenzene	392,000	761,000	----	<25	<25	<25	<25	<25	<200	<25	<25	<1,000	<125	<25	<25	<1,000
Chloroethane	171,000	720,000	226.6	<25	<25	<25	<25	<25	<200	<67	<67	<2,680	<335	<67	<67	<2,680
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	83.9 ^C	<200	<25	<25	15,000 ^C	20,600 ^C	44.8 ^{JC}	99.2 ^C	7,570 ^C
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	125	881	<25	<25	<1,000	<125	<25	<25	<1,000
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	<25	<25	492 ^J	<25	<25	<1,000	<125	<25	<25	<1,000
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	<200	<25	<25	<1,000	<125	<25	<25	<1,000
n-Butylbenzene	108,000	108,000	----	<40.4	<40.4	<40.4	<40.4	<40.4	757	<25	<25	<1,000	<125	<25	<25	<1,000
n-Propylbenzene	264,000	264,000	----	<25	<25	<25	<25	<25	763	<25	<25	<1,000	<125	<25	<25	<1,000
Naphthalene	5,150	26,000	658.7	<25	<25	<25	1,000 ^C	<25	<200	<40	<40	<1,000	<200	<40	<40	<1,000
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	<25	<25	461 ^J	<25	<25	<1,000	<125	<25	<25	<1,000
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	<25	<25	348 ^J	<25	<25	<1,000	<125	<25	<25	<1,000
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25	<25	<25	<200	<25	<25	<1,000	<125	<25	<25	<1,000
Tetrachloroethene	30,700	153,000	4.5	<25	594 ^C	818 ^C	<25	<25	<200	<25	<25	<1,000	<125	<25	<25	<1,000
Toluene	818,000	818,000	1107.2	<25	<25	<25	33.5 ^J	40.3 ^J	<200	<25	<25	<1,000	<125	<25	<25	<1,000
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<200	<25	<25	<1,000	267 ^{JC}	<25	<25	<1,000
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	1,610 ^{AC}	<25	<200	201 ^C	1,430 ^{AC}	163,000 ^{ABC}	38,000 ^{ABC}	317 ^C	1,130 ^C	143,000 ^{ABC}
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<200	<25	<25	<1,000	151 ^{JAC}	<25	<25	<1,000
Xylene (Total)	258,000	258,000	3,940	<75	<77.4	<77.4	<75	<75	<600	<75	<75	<3,000	<375	<75	<75	<3,000

Table 9a
CS3 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-335 (21-22) 03/25/14	GP-336 (1-2) 03/26/14	GP-336 (7-8) 03/26/14	GP-336 (20-21) 03/26/14	GP-337 (3-4) 03/31/14	GP-337 (16-17) 03/31/14	GP-337 (21-22) 03/31/14	GP-338 (1-2) 03/31/14	GP-338 (7-8) 03/31/14	GP-338 (18-19) 03/31/14	GP-339 (2-4) 03/25/14	GP-339 (5-6) 03/25/14	GP-339 (17-18) 03/25/14
	Direct Contact Pathway		Groundwater Pathway													
	Non-Industrial	Industrial														
VOCs (µg/kg)																
1,1,1-Trichloroethane	640,000	640,000	140.2	<500	<25	<25	<25	<25	<25	<50	<25	<25	<25	48.1 ^J	<25	<1,000
1,1-Dichloroethane	4,720	23,700	482.8	<500	<25	<25	<25	<25	<25	<50	<25	<25	<25	2,330^C	78.7	<1,000
1,1-Dichloroethene	342,000	1,190,000	5	<500	<25	<25	<25	<25	<25	<50	<25	<25	<25	<25	<25	<1,000
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<500	<25	<25	<25	<25	<25	<50	<25	<25	<25	1,660^C	109	<1,000
1,2-Dichlorobenzene	376,000	376,000	1,168	<500	<25	<25	<25	<25	<25	<50	<25	<25	<25	<25	<25	<1,000
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<500	<25	<25	<25	<25	<25	<50	<25	<25	<25	934	76.1	<1,000
1,3-Dichlorobenzene	297,000	297,000	1,152.80	<500	<25	<25	<25	<25	<25	<50	<25	<25	<25	<25	<25	<1,000
1,4-Dichlorobenzene	3,480	17,500	144	<500	<25	<25	<25	<25	<25	<50	<25	<25	<25	<25	<25	<1,000
Benzene	1,490	7,410	5.1	<500	<25	<25	<25	<25	<25	<50	<25	<25	<25	<25	<25	<1,000
Chlorobenzene	392,000	761,000	----	<500	<25	<25	<25	<25	<25	<50	<25	<25	<25	<25	<25	<1,000
Chloroethane	171,000	720,000	226.6	<1,340	<67	<67	<67	<67	<67	<134	<67	<67	<67	<67	<67	<2,680
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	10,100^C	1,190^C	1,630^C	<25	<25	12,800^C	17,600^C	<25	<25	<25	416^C	<25	55,000^C
Ethylbenzene	7,470	37,000	1,570	<500	<25	<25	<25	<25	<25	<50	<25	<25	<25	131	<25	<1,000
Isopropylbenzene (Cumene)	268,000	268,000	----	<500	<25	<25	<25	<25	<25	<50	<25	<25	<25	47.5 ^J	<25	<1,000
Methylene Chloride	60,700	1,070,000	2.6	<500	<25	<25	<25	<25	<25	<50	<25	<25	<25	<25	<25	<1,000
n-Butylbenzene	108,000	108,000	----	<500	<25	<25	<25	<25	<25	<50	<25	<25	<25	<25	<25	<1,000
n-Propylbenzene	264,000	264,000	----	<500	<25	<25	<25	<25	<25	<50	<25	<25	<25	78.7	<25	<1,000
Naphthalene	5,150	26,000	658.7	<801	<40	<40	<40	<40	<40	<80.1	<40	<40	<40	2650^C	209 ^J	<1,000
p-Isopropyltoluene	162,000	162,000	----	<500	<25	<25	<25	<25	<25	<50	<25	<25	<25	161	<25	<1,000
sec-Butylbenzene	145,000	145,000	----	<500	<25	<25	<25	<25	<25	<50	<25	<25	<25	53.7 ^J	<25	<1,000
tert-Butylbenzene	183,000	183,000	----	<500	<25	<25	<25	<25	<25	<50	<25	<25	<25	<25	<25	<1,000
Tetrachloroethene	30,700	153,000	4.5	<500	<25	<25	<25	<25	<25	<50	<25	<25	<25	42.5^{JC}	<25	<1,000
Toluene	818,000	818,000	1107.2	<500	<25	<25	<25	<25	<25	<50	<25	<25	<25	136	<25	<1,000
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	2,050^C	206^C	322^C	<25	<25	204^C	327^C	<25	<25	<25	40.4 ^J	<25	<1,000
Trichloroethene	1,260	8,810	3.6	75,400^{ABC}	4,850^{AC}	192^C	<25	154^C	<25	253^C	217^C	<25	<25	<25	<25	172,000^{ABC}
Vinyl chloride	67	2,030	0.1	<500	<25	<25	<25	<25	180^{AC}	<50	<25	<25	107^{AC}	215^{AC}	<25	5,720^{ABC}
Xylene (Total)	258,000	258,000	3,940	<1,500	<75	<75	<75	<75	<75	<150	<75	<75	<75	1,885	<75	<3,000

Table 9a
CS3 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-339 (21-22) 03/25/14	GP-340 (2-4) 03/24/14	GP-340 (2-4) FD 03/24/14	GP-340 (8-9) 03/24/14	GP-341 (3-4) 03/24/14	GP-341 (6-7) 03/24/14	GP-342 (3-4) 3/24/14	GP-342 (7.5-8.5) 03/24/14	GP-342 (14-15) 03/24/14	GP-343 (3-4) 03/25/14	GP-343 (7-8) 03/25/14	GP-343 (20-21) 03/25/14	
	Direct Contact Pathway		Groundwater Pathway													
	Non-Industrial	Industrial														
VOCs (µg/kg)																
1,1,1-Trichloroethane	640,000	640,000	140.2	<100	<25	56 ^J	<25	<25	<25	87.6	<25	<125	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<100	<25	<25	<25	<25	<25	<25	<25	<125	<25	<25	<25	<25
1,1-Dichloroethene	342,000	1,190,000	5	<100	<25	<25	<25	<25	<25	<25	<25	<125	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<100	<25	<25	<25	<25	180	<25	<25	<125	<25	<25	<25	<25
1,2-Dichlorobenzene	376,000	376,000	1,168	<100	<25	<25	<25	<25	<25	<25	<25	<125	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<100	<25	<25	<25	<25	116	<25	<25	<125	<25	<25	<25	<25
1,3-Dichlorobenzene	297,000	297,000	1,152.80	<100	<25	<25	<25	<25	<25	<25	<25	<125	<25	<25	<25	<25
1,4-Dichlorobenzene	3,480	17,500	144	<100	<25	<25	<25	<25	<25	<25	<25	<125	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<100	<25	<25	<25	<25	65.4 ^{JC}	<25	<25	268 ^{JC}	<25	<25	<25	<25
Chlorobenzene	392,000	761,000	----	<100	<25	<25	<25	<25	<25	<25	<25	<125	<25	<25	<25	<25
Chloroethane	171,000	720,000	226.6	<268	<67	<67	<67	<67	<67	<67	185 ^J	<335	<67	<67	<67	<67
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	10,200 ^C	<25	<25	<25	<25	274 ^C	<25	<25	16,900 ^C	458 ^C	31.7 ^J	34.1 ^J	34.1 ^J
Ethylbenzene	7,470	37,000	1,570	<100	<25	<25	<25	<25	51.4 ^J	<25	<25	<125	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<100	<25	<25	<25	<25	43.1 ^J	<25	<25	<125	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<100	<25	<70.6 ^U	<25	<25	<25	<25	<25	<125	<25	<25	<25	<25
n-Butylbenzene	108,000	108,000	----	<100	<25	<25	<25	<25	69.9 ^J	<25	<25	<125	<25	<25	<25	<25
n-Propylbenzene	264,000	264,000	----	<100	<25	<25	<25	<25	42.8 ^J	<25	<25	<125	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<160	<40	159 ^J	<40	<40	155.0 ^J	1610 ^C	<40	<200	<40	<40	<40	<40
p-Isopropyltoluene	162,000	162,000	----	<100	<25	<25	<25	<25	68.1 ^J	<25	<25	<125	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	<100	<25	<25	<25	<25	49.8 ^J	<25	<25	<125	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	----	<100	<25	<25	<25	<25	<25	<25	<25	<125	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	4.5	<100	<25	<25	<25	<25	<25	<25	<25	<125	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<100	<25	<25	<25	<25	48.9 ^J	<25	<25	<125	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	195 ^{JC}	<25	<25	<25	<25	45.0 ^J	<25	<25	353 ^{JC}	119 ^C	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	20,600 ^{ABC}	432 ^{JC}	1,220 ^{JC}	<25	<25	532 ^C	247 ^C	<25	10,200 ^{ABC}	81 ^C	<25	<25	<25
Vinyl chloride	67	2,030	0.1	1,970 ^{AC}	<25	<25	<25	<25	527 ^{AC}	<25	<25	780 ^{AC}	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<300	<75	<75	<75	<75	186.1 ^J	<75	<75	<375	<75	<75	<75	<75

Table 9a
CS3 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-344	GP-344	GP-344	GP-345	GP-345	GP-345	GP-346	GP-346	GP-346
	Direct Contact Pathway		Groundwater Pathway	(3-4)	(7-8)	(18.5-19.5)	(2-4)	(9-10)	(22-23)	(3-4)	(9-10)	(18-19)
	Non-Industrial	Industrial		03/24/14	03/24/14	03/24/14	03/25/14	03/25/14	03/25/14	03/25/14	03/25/14	03/25/14
VOCs (µg/kg)												
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<100	<25	<25	<25	<25	<25	<250	<50
1,1-Dichloroethane	4,720	23,700	482.8	<25	223 ^J	<25	<25	696 ^C	<25	<25	<250	<50
1,1-Dichloroethene	342,000	1,190,000	5	<25	<100	<25	<25	<25	<25	<25	<250	<50
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<100	<25	<25	<25	<25	<25	<250	<50
1,2-Dichlorobenzene	376,000	376,000	1,168	<25	<100	<25	<25	<25	<25	<25	<250	<50
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<100	<25	<25	<25	<25	<25	<250	<50
1,3-Dichlorobenzene	297,000	297,000	1,152.80	<25	<100	<25	<25	<25	<25	<25	<250	<50
1,4-Dichlorobenzene	3,480	17,500	144	<25	<100	<25	<25	<25	<25	<25	466 ^{JC}	<50
Benzene	1,490	7,410	5.1	<25	<100	<25	<25	<25	<25	<25	<250	<50
Chlorobenzene	392,000	761,000	----	<25	<100	<25	<25	<25	<25	<25	1,060 ^C	<50
Chloroethane	171,000	720,000	226.6	<67	<268	<67	<67	<67	<67	<67	<670	<134
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	18,600 ^C	<25	<25	<25	<25	67.2 ^{JC}	915 ^C	6970 ^C
Ethylbenzene	7,470	37,000	1,570	<25	<100	<25	<25	<25	<25	<25	<250	<50
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<100	<25	<25	<25	<25	<25	<250	<50
Methylene Chloride	60,700	1,070,000	2.6	<25	<100	<25	<25	<25	<25	<25	<250	<50
n-Butylbenzene	108,000	108,000	----	<25	<100	<25	<25	<25	<25	<25	1,130	<50
n-Propylbenzene	264,000	264,000	----	<25	<100	<25	<25	<25	<25	<25	<250	<50
Naphthalene	5,150	26,000	658.7	<40	<160	<40	<40	<40	<40	<40	<400	<80.1
p-Isopropyltoluene	162,000	162,000	----	<25	<100	<25	<25	<25	<25	<25	<250	<50
sec-Butylbenzene	145,000	145,000	----	<25	<100	<25	<25	<25	<25	<25	360 ^J	<50
tert-Butylbenzene	183,000	183,000	----	<25	<100	<25	<25	<25	<25	<25	<250	<50
Tetrachloroethene	30,700	153,000	4.5	<25	3,940 ^C	<25	<25	102 ^C	<25	<25	<250	<50
Toluene	818,000	818,000	1107.2	<25	319	<25	<25	<25	<25	<25	<250	<50
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	146 ^{JC}	<25	<25	<25	<25	<25	<250	748 ^C
Trichloroethene	1,260	8,810	3.6	<25	1,390 ^{AC}	<25	<25	<25	<25	293 ^C	<250	9310 ^{ABC}
Vinyl chloride	67	2,030	0.1	<25	1,010 ^{AC}	<25	<25	<25	<25	<25	<250	<50
Xylene (Total)	258,000	258,000	3,940	<75	273 ^J	<75	<75	<75	<75	<75	<750	<150

Notes: VOCs mg/kg = Milligrams per kilogram
^A = Parameter exceeds Generic RCL for Non-Indu ug/kg = Micrograms per kilogram
^B = Parameter exceeds Generic RCL for Industrial DUP/D/FD = Field duplicate
^C = Parameter exceeds Generic RCL for Groundw -- = No generic RCL established
^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)
^U = Not detected, detection limit elevated based on lab QC; see data validation memo
^b = Analyte was detected in Generic RCLs June 2014 per WDNR PUB-RR-890.

Table 9b
CS3 Detected Volatile Organic Compounds in Soil at Monitoring Well or Piezometer Locations
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-47 (3-4)	PZ-47 (6-7)	PZ-47 (10-11)	PZ-47 (17-18)	MW-102 4-5'	MW-103 4-5'	PZ-301 (2-3)	PZ-301 (5-7)	PZ-301 (17-18)	PZ-302 (2-3)	PZ-302 (6-7)	PZ-302 (12-13)	PZ-302 (18-19)
	Direct Contact Pathway		Groundwater													
	Non-Industrial	Industrial	Pathway	12/14/11	12/14/11	12/14/11	12/14/11	12/02/10	12/02/10	12/21/11	12/21/11	12/21/11	12/20/11	12/20/11	12/20/11	12/20/11
VOCs (µg/kg)																
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	133	178	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25
1,1-Dichloroethene	342,000	1,190,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	58.2 ^J	264	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25
1,2-Dichlorobenzene	376,000	376,000	1,168	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	38.6 ^J	156	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25
1,3-Dichlorobenzene	297,000	297,000	1,152.80	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25
1,4-Dichlorobenzene	3,480	17,500	144	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25
Chlorobenzene	392,000	761,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25
Chloroethane	171,000	720,000	226.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	74.8 ^C	<25	<25	190 ^C	<25	<25	<25	<25	8,230 ^C	28.4 ^J	4,280 ^C	4,610 ^C	2,300 ^C
Ethylbenzene	7,470	37,000	1,570	<25	<25	34 ^J	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25
n-Butylbenzene	108,000	108,000	----	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<202	<40.4
n-Propylbenzene	264,000	264,000	----	<25	<25	34 ^J	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25
Naphthalene	5,150	26,000	658.7	<25	38.8 ^J	185	<25	<25	<25	3460 ^C	<25	<25	29.7 ^J	<25	<125	<25
p-Isopropyltoluene	162,000	162,000	----	<25	<25	58.1 ^J	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25
Tetrachloroethene	30,700	153,000	4.5	<25	<25	<25	<25	43.7 ^{JC}	<25	<25	<25	<25	<25	<25	<125	<25
Toluene	818,000	818,000	1107.2	<25	261	647	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	27.3 ^J	<25	<25	<25	<25	<25	174 ^C	<25	315 ^C	915 ^C	245 ^C
Trichloroethene	1,260	8,810	3.6	36.9 ^{JC}	<25	<25	<25	<25	<25	<25	<25	687 ^C	242 ^C	<25	32,300 ^{ABC}	62.7 ^{JC}
Vinyl chloride	67	2,030	0.1	<25	175 ^{AC}	400 ^{AC}	49.9 ^{JC}	<25	<25	<25	<25	45.2 ^{JC}	<25	<25	<125	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	217.1	<75	<75	<75	<77.4	<77.4	<77.4	<75	<75	<375	<75

Table 9b
CS3 Detected Volatile Organic Compounds in Soil at Monitoring Well or Piezometer Locations
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			MW-303	MW-303	PZ-304	PZ-304	PZ-304	PZ-304	PZ-305	PZ-305	PZ-305	PZ-305	PZ-306	PZ-306	PZ-306
	Direct Contact Pathway		Groundwater Pathway	(3-4)	(6-7)	(3-4)	(7-8)	(10-11)	(17-18)	(2-3)	(6-7)	(10-11)	(18-19)	(2-4)	(6-7)	(20-21)
	Non-Industrial	Industrial		12/20/11	12/20/11	12/15/11	12/15/11	12/15/11	12/15/11	12/15/11	12/15/11	12/15/11	12/15/11	12/15/11	12/20/11	12/20/11
VOCs (µg/kg)																
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25	<25	132	2,230^C	<25	<25	<25
1,1-Dichloroethene	342,000	1,190,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	245 ^J	<25	<25	<25
1,2-Dichlorobenzene	376,000	376,000	1,168	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	138 ^J	<25	<25	<25
1,3-Dichlorobenzene	297,000	297,000	1,152.80	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25
1,4-Dichlorobenzene	3,480	17,500	144	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25
Chlorobenzene	392,000	761,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25
Chloroethane	171,000	720,000	226.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	7,360^C	<25	<25	<25	<25	2,000^C	44.8^{JC}	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	30.4^{JC}	<25	<25	<25	113^{JC*}	<25	<25	<25
n-Butylbenzene	108,000	108,000	----	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<162	<40.4	<40.4	<40.4
n-Propylbenzene	264,000	264,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	<25	<25	<25	<25	<25	309	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25
Tetrachloroethene	30,700	153,000	4.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	1,380^C	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	223^C	<25	<25	<25	<25	218^{JC}	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	541^C	95.6^C	<25	<25	<25	<25	<25	156^{JC}	<25	66^{JC}	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	170^{AC}	<25	<25	<25	60.9^{JC}	3,080^{ABC}	78.2^{AC}	<25	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<75	<75	<75	<75	<75	<75	<300	<75	<75	<75

Table 9b
CS3 Detected Volatile Organic Compounds in Soil at Monitoring Well or Piezometer Locations
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-307 (3-4)	PZ-307 (7-8)	PZ-307 (19-20)	PZ-308 (3-4)	PZ-308 (3-4) FD	PZ-308 (6-7)	PZ-308 (20-21)	PZ-309 (3-4)	PZ-309 (6-7)	PZ-309 (10-11)	PZ-309 (18-19)	PZ-310 (3-4)	PZ-310 (6-7)	
	Direct Contact Pathway		Groundwater Pathway	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11
	Non-Industrial	Industrial		<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
VOCs (µg/kg)																	
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	140 ^J
1,1-Dichloroethane	4,720	23,700	482.8	<25	83.9	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	265
1,1-Dichloroethene	342,000	1,190,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	106	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100
1,2-Dichlorobenzene	376,000	376,000	1,168	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	41.9 ^J	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100
1,3-Dichlorobenzene	297,000	297,000	1,152.80	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100
1,4-Dichlorobenzene	3,480	17,500	144	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100
Chlorobenzene	392,000	761,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100
Chloroethane	171,000	720,000	226.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	43.6 ^{JC}	192 ^C	<25	<25	<25	<25	1,880 ^C	151 ^C	<25	4,820 ^C	<25	<25	<25	384 ^C
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100
Methylene Chloride	60,700	1,070,000	2.6	33 ^{JCb}	36.6 ^{JCb}	31.2 ^{JC}	35.5 ^{JCb}	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100
n-Butylbenzene	108,000	108,000	----	49.2 ^J	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<162
n-Propylbenzene	264,000	264,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	<25	<25	<25	197	<25	<25	<25	<25	<25	<100
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100
Tetrachloroethene	30,700	153,000	4.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100
Toluene	818,000	818,000	1107.2	39.2 ^J	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	543 ^C	<25	<25	652 ^C	<25	<25	<25	122 ^{JC}
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	95.3 ^C	52.2 ^{JC}	<25	6,760 ^{AC}	<25	<25	<25	<25	<25	<25	27,300 ^{ABC}
Vinyl chloride	67	2,030	0.1	<25	<25	35.1 ^{JC}	<25	<25	<25	<25	864 ^{AC}	<25	2,140 ^{ABC}	<25	<25	<25	<100
Xylene (Total)	258,000	258,000	3,940	83.7 ^J	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<300

Table 9b
CS3 Detected Volatile Organic Compounds in Soil at Monitoring Well or Piezometer Locations
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-310 (20-21) 12/19/11	PZ-311 (3-4) 12/16/11	PZ-311 (7-8) 12/16/11	PZ-311 (12-13) 12/16/11	PZ-311 (19-20) 12/16/11	PZ-312 (3-4) 12/16/11	PZ-312 (7-8) 12/16/11	PZ-312 (12-13) 12/16/11	PZ-312 (23-24) 12/16/11	PZ-313 (3-4) 12/15/11	PZ-313 (7-8) 12/15/11	PZ-313 (22-23) 12/15/11	PZ-314 (2-3) 12/21/11
	Direct Contact Pathway		Groundwater Pathway													
	Non-Industrial	Industrial														
VOCs (µg/kg)																
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<100	<62.5	<32.1	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<100	<62.5	<32.1	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethene	342,000	1,190,000	5	<25	<25	<25	<100	<62.5	<32.1	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	884	<25	<100	<62.5	<32.1	<25	<25	<25	<25	<25	<25	<25
1,2-Dichlorobenzene	376,000	376,000	1,168	<25	<25	<25	<100	<62.5	<32.1	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	280	<25	<100	<62.5	<32.1	<25	<25	<25	<25	<25	<25	<25
1,3-Dichlorobenzene	297,000	297,000	1,152.80	<25	<25	<25	<100	<62.5	<32.1	<25	<25	<25	<25	<25	<25	<25
1,4-Dichlorobenzene	3,480	17,500	144	<25	<25	<25	<100	<62.5	<32.1	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<100	<62.5	<32.1	<25	<25	<25	<25	<25	<25	<25
Chlorobenzene	392,000	761,000	----	<25	<25	<25	<100	<62.5	<32.1	<25	<25	<25	<25	<25	<25	<25
Chloroethane	171,000	720,000	226.6	<25	<25	<25	<100	<62.5	<32.1	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	124^C	<25	13,100^C	16,800^C	<32.1	<25	4,320^C	<25	40.6^J	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	38.1^J	<25	<100	<62.5	<32.1	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	51.6^J	<25	<100	<62.5	<32.1	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<100	<62.5	<32.1	<25	<25	<25	30.1^{JC*}	<25	38.5^{JC}	<25
n-Butylbenzene	108,000	108,000	----	<40.4	277	<40.4	<162	<101	<51.8	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4
n-Propylbenzene	264,000	264,000	----	<25	93.9	<25	<100	<62.5	<32.1	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<25	316	<25	<100	<62.5	<32.1	<25	<25	<25	70.3	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	----	<25	158	<25	<100	<62.5	<32.1	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	<25	110	<25	<100	<62.5	<32.1	<25	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25	<100	<62.5	<32.1	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	4.5	<25	<25	<25	<100	<62.5	<32.1	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<100	<62.5	<32.1	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	223^{JC}	1,270^C	<32.1	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	347^C	137^C	523^C	15,600^{ABC}	198^C	<25	<25	<25	<25	<25	<25	475^C
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<100	154^{JAC}	<32.1	<25	921^{AC}	<25	79^{AC}	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<75	275	<77.4	<310	<194	<99.2	<77.4	<77.4	<77.4	<75	<75	<75	<77.4

Table 9b
CS3 Detected Volatile Organic Compounds in Soil at Monitoring Well or Piezometer Locations
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-314	PZ-314	PZ-314	PZ-315	PZ-315	PZ-315	PZ-315	PZ-316	PZ-316	PZ-316	PZ-317	PZ-317	PZ-317	(21-22)
	Direct Contact Pathway		Groundwater	(6-7)	(12-13)	(23-24)	(3-4)	(11-12)	(18-19)	(20-21)	(3-4)	(8-9)	(22-23)	(3-4)	(6-7)	(21-22)	FD
	Non-Industrial	Industrial	Pathway	12/21/11	12/21/11	12/21/11	03/25/14	03/25/14	03/25/14	03/25/14	03/19/14	03/19/14	03/19/14	03/19/14	03/19/14	03/19/14	03/19/14
VOCs (µg/kg)																	
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	88.7	<25	<1,250	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<1,250	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethene	342,000	1,190,000	5	<25	<25	<25	<25	<25	<1,250	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<1,250	<25	<25	<25	<25	<25	<25	<25	<25
1,2-Dichlorobenzene	376,000	376,000	1,168	<25	<25	<25	<25	<25	<1,250	<25	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<1,250	<25	<25	<25	<25	<25	<25	<25	<25
1,3-Dichlorobenzene	297,000	297,000	1,152.80	<25	<25	<25	<25	<25	<1,250	<25	<25	<25	<25	<25	<25	<25	<25
1,4-Dichlorobenzene	3,480	17,500	144	<25	<25	<25	<25	<25	<1,250	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	34.5 ^{JC}	<1,250	<25	<25	<25	<25	<25	<25	<25	<25
Chlorobenzene	392,000	761,000	----	<25	<25	<25	<25	<25	<1250	<25	<25	<25	<25	<25	<25	<25	<25
Chloroethane	171,000	720,000	226.6	<25	<25	<25	<67	<67	<3350	<67	<67	<67	<67	<67	<67	<67	<67
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	5,220 ^C	<25	46.9 ^{JC}	52.5 ^{JC}	4,960 ^C	147 ^C	408 ^C	2,270 ^C	<25	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<1,250	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	<25	<25	<1,250	<25	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	<1,250	<25	<25	<25	<25	<25	<25	<25	<25
n-Butylbenzene	108,000	108,000	----	<40.4	<40.4	<40.4	<25	<25	<1,250	<25	<25	<25	<25	<25	<25	<25	<25
n-Propylbenzene	264,000	264,000	----	<25	<25	<25	<25	<25	<1,250	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<40	<40	<2,000	<40	<40	<40	<40	<40	<40	<40	<40
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	<25	<25	<1,250	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	<25	<25	<1,250	<25	<25	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25	<25	<25	<1,250	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	4.5	<25	<25	<25	144 ^C	<25	<1,250	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<1,250	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	70.5 ^{JC}	<25	<25	40.4 ^J	<1,250	<25	122 ^C	177 ^C	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	292 ^C	<25	<25	1,710 ^{AC}	50.3 ^{JC}	202,000 ^{ABC}	6,480 ^{AC}	5,590 ^{AC}	54 ^{JC}	<25	41 ^{JC}	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	335 ^{AC}	<25	<25	<25	<1,250	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<77.4	<77.4	<77.4	<75	<75	<3,750	<75	<75	<75	<75	<75	<75	<75	<75

Table 9b
CS3 Detected Volatile Organic Compounds in Soil at Monitoring Well or Piezometer Locations
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-319 (3-4)	PZ-319 (10-11)	PZ-319 (14-15)	PZ-319 (19-20)	PZ-320 (3-4)	PZ-320 (5-6)	PZ-320 (24-25)	PZ-350 (3-4)	PZ-350 (9.5-10.5')	PZ-350 (12-13')	PZ-350 (19-20')	PZ-351 (1-2')	PZ-351 (9-10')
	Direct Contact Pathway		Groundwater													
		Non-Industrial	Industrial	Pathway	03/19/14	03/19/14	03/19/14	03/19/14	03/20/14	03/20/14	03/20/14	03/21/14	03/21/14	03/21/14	03/21/14	03/21/14
VOCs (µg/kg)																
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<125	<25	<250	<25	<25	<25	<500	<25	<25	<62.5	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<125	<25	<250	<25	<25	<25	<500	<25	<25	181	68.6 ^J
1,1-Dichloroethene	342,000	1,190,000	5	<25	<25	<125	<25	<250	<25	<25	<25	<500	<25	<25	<62.5	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	408	<25	<125	<25	<250	<25	<25	<25	47,200 ^C	<25	<25	<62.5	<25
1,2-Dichlorobenzene	376,000	376,000	1,168	<25	<25	<125	<25	<250	<25	<25	<25	<500	<25	<25	<62.5	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	627	<25	<125	<25	<250	<25	<25	<25	8,670 ^C	<25	<25	<62.5	<25
1,3-Dichlorobenzene	297,000	297,000	1,152.80	<25	<25	<125	<25	<250	<25	<25	<25	<500	<25	<25	<62.5	<25
1,4-Dichlorobenzene	3,480	17,500	144	<25	<25	<125	<25	<250	<25	<25	<25	<500	<25	<25	<62.5	<25
Benzene	1,490	7,410	5.1	<25	<25	<125	<25	<250	<25	<25	<25	730 ^{JC}	208 ^C	<25	<62.5	<25
Chlorobenzene	392,000	761,000	----	<25	<25	<125	<25	<250	<25	<25	<25	<500	<25	<25	<62.5	<25
Chloroethane	171,000	720,000	226.6	<67	<67	<335	<67	<670	<67	<67	<67	<1,340	<67	<67	<168	<67
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	707 ^C	<25	10,400 ^C	1,130 ^C	47,000 ^C	2,210 ^C	<25	<25	<500	9,050 ^C	<25	8,890 ^C	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<125	<25	<250	<25	<25	<25	20,200 ^{AC}	<25	<25	<62.5	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	53.9 ^J	<25	<125	<25	<250	<25	<25	<25	37,800	<25	<25	<62.5	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<125	<25	<250	<25	<25	<25	<500	<25	<25	<62.5	<25
n-Butylbenzene	108,000	108,000	----	<25	<25	<125	<25	<250	<25	<25	<25	11,900	<25	<25	<62.5	<25
n-Propylbenzene	264,000	264,000	----	<25	<25	<125	<25	<250	<25	<25	<25	5,500	<25	<25	<62.5	<25
Naphthalene	5,150	26,000	658.7	<40	<40	<200	<40	<400	<40	<40	<40	26,700 ^{ABC}	<40	<40	<100	<40
p-Isopropyltoluene	162,000	162,000	----	79.7	<25	<125	<25	<250	<25	<25	<25	6,090	<25	<25	<62.5	<25
sec-Butylbenzene	145,000	145,000	----	73.5	<25	<125	<25	<250	<25	<25	<25	5,400	<25	<25	<62.5	<25
tert-Butylbenzene	183,000	183,000	----	<25	<25	<125	<25	<250	<25	<25	<25	685 ^J	<25	<25	<62.5	<25
Tetrachloroethene	30,700	153,000	4.5	<25	<25	<125	<25	<250	<25	<25	<25	<500	<25	<25	<62.5	<25
Toluene	818,000	818,000	1107.2	<25	<25	<125	<25	<250	<25	<25	<25	<500	938	<25	<62.5	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	1,450 ^C	292 ^C	7,600 ^C	331 ^C	<25	<25	<500	41.7 ^J	<25	336 ^C	<25
Trichloroethene	1,260	8,810	3.6	43.6 ^{JC}	<25	48,200 ^{ABC}	228 ^C	1,020 ^C	36.6 ^{JC}	<25	1,060 ^C	<500	<25	<25	1,080 ^C	<25
Vinyl chloride	67	2,030	0.1	2,530 ^{ABC}	<25	<125	102 ^{AC}	<250	69.1 ^{JAC}	<25	<25	<500	1,640 ^{AC}	37.9 ^{JC}	728 ^{AC}	74.6 ^{AC}
Xylene (Total)	258,000	258,000	3,940	447	<75	<375	<75	<750	<75	<75	<75	10,000 ^C	<75	<75	<188	<75

Table 9b
CS3 Detected Volatile Organic Compounds in Soil at Monitoring Well or Piezometer Locations
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-351	PZ-352	PZ-352	PZ-352	PZ-353	PZ-353	PZ-353	PZ-353	PZ-354	PZ-354	PZ-354	PZ-354
	Direct Contact Pathway		Groundwater Pathway	(19-20*)	(3-4)	(8-9)	(19-20)	(2-4)	(2-4) FD	(6-7)	(19-20)	(2-3)	(7-8)	(9-10)	(21-22)
	Non-Industrial	Industrial		03/21/14	03/20/14	03/20/14	03/20/14	03/20/14	03/20/14	03/20/14	03/20/14	03/20/14	03/19/14	03/19/14	03/19/14
VOCs (µg/kg)															
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5	<50	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	75.1	<25	<25	<25	<25	<25	<25	<62.5	<50	<25
1,1-Dichloroethene	342,000	1,190,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5	<50	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	113	<62.5	685	<25
1,2-Dichlorobenzene	376,000	376,000	1,168	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5	2,300 ^C	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	90.8	<62.5	<50	<25
1,3-Dichlorobenzene	297,000	297,000	1,152.80	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5	77.3 ^J	<25
1,4-Dichlorobenzene	3,480	17,500	144	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5	716 ^C	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5	<50	<25
Chlorobenzene	392,000	761,000	----	<25	<25	<25	<25	<25	<25	<25	<25	62.6 ^J	<62.5	413	<25
Chloroethane	171,000	720,000	226.6	<67	<67	<67	<67	<67	<67	<67	<67	<67	<168	<134	<67
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	749 ^C	161 ^C	<25	<25	<25	<25	4,090 ^C	14,700 ^C	<50	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5	336	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	<25	<25	<25	<25	<25	42.8 ^J	<62.5	446	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5	<50	<25
n-Butylbenzene	108,000	108,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5	1340	<25
n-Propylbenzene	264,000	264,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5	144	<25
Naphthalene	5,150	26,000	658.7	<40	<40	<40	<40	<40	<40	<40	<40	<40	<100	<80.1	<40
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	<25	<25	<25	<25	<25	53.5 ^J	<62.5	451	<25
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5	319	<25
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5	<50	<25
Tetrachloroethene	30,700	153,000	4.5	<25	<25	<25	<25	<25	<25	<25	<25	67.2 ^{JC}	<62.5	<50	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	77.3 ^J	109 ^J	92.7	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	42.5 ^J	<25	<25	<25	<25	<25	673 ^C	538 ^C	82.8 ^C	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	59.6 ^{JC}	27.9 ^{JC}	68.6 ^{JC}	<25	2,270 ^{AC}	<62.5	<50	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5	807 ^{AC}	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<75	<75	<75	<75	<75	165.1 ^J	<187.5	234 ^J	<75

Notes:

- VOCs = Vc DUP/D/FD = Field duplicate. -- = No generic RCL established.
mg/kg = Milligrams per kilogram. ug/kg = Micro Generic RCLs June 2014 per WDNR PUB-RR-890.
^A = Parameter exceeds Generic RCL for Non-Ind ^b = Analyte was detected in the method blank.
^B = Parameter exceeds Generic RCL for Industr ^J = Estimated concentration between the Method Detection Limit (MDL)
^C = Parameter exceeds Generic RCL for Ground & Reporting Limit (RL)

Table 9c
CS3 Polycyclic Aromatic Hydrocarbons and Diesel Range Organics in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-47	PZ-47	MW-102	MW-103	PZ-301	PZ-301	PZ-302	PZ-302	MW-303	MW-303	PZ-304	PZ-304	PZ-305	PZ-305	PZ-306	
	Direct Contact Pathway		Groundwater Pathway	(3-4)	(6-7)	4-5'	4-5'	(2-3)	(5-7)	(2-3)	(6-7)	(3-4)	(6-7)	(3-4)	(7-8)	(2-3)	(6-7)	(2-4)	
	Non-Industrial	Industrial		12/14/11	12/14/11	12/02/10	12/02/10	12/21/11	12/21/11	12/20/11	12/20/11	12/20/11	12/20/11	12/20/11	12/15/11	12/15/11	12/15/11	12/15/11	12/20/11
PAHs (µg/kg)																			
1-Methylnaphthalene	15,600	53,100	23,000	19.5	223	<2.9	<2.8	2,580 ^J	5 ^J	40 ^J	<3.2	<3.3	<3.1	98.5	4.9 ^J	87.4	<3	22.8	
2-Methylnaphthalene	229,000	2,200,000	20,000	25.2	251	<2.9	<2.8	2,990 ^J	7 ^J	50.6 ^J	<3.2	5.1 ^J	4.1 ^J	138	8.3 ^J	103	<3	37.3	
Acenaphthene	3,440,000	33,000,000	38,000	4.1 ^J	23.4 ^J	<2.7	<2.6	4,640	3.5 ^J	33.7 ^J	<2.9	<3	<2.9	5.2 ^J	4.5 ^J	17 ^J	<2.8	4.5 ^J	
Acenaphthylene	18,000	360,000	700	6.5 ^J	19.5 ^J	<3.1	<2.9	<728	<3.3	<27.9	<3.3	<3.4	<3.2	14.7 ^J	<3.3	46.8	<3.2	16 ^J	
Anthracene	17,200,000	100,000,000	197,727.3	19.5	49.2 ^J	<4.5	<4.3	14,800	<4.8	310	<4.9	<5	<4.7	24.1	<4.8	55.8	<4.6	35.5	
Benzo(a)anthracene	148	2,110	17,000	49.1	34.2 ^J	2.7 ^J	<2.6	26,400 ^{ABC}	<2.9	817 ^A	<3	<3.1	<2.9	53.1	<2.9	115	<2.8	96.1	
Benzo(a)pyrene	15	211	470	54.9 ^A	305 ^{AB}	<3.1	<3.0	24,400 ^{ABC}	<3.4	718 ^{ABC}	<3.4	<3.5	<3.3	47.6 ^A	<3.4	96.1 ^A	<3.3	86.7 ^A	
Benzo(b)fluoranthene	148	2,110	479.3	60.9	<18.3	10.8 ^{Jb}	9.6 ^{Jb}	27,000 ^{ABC}	<3.5	712 ^{AC}	<3.6	<3.7	<3.5	67.8	<3.5	89	<3.5	126 ^A	
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	43.1	19.3 ^J	<2.5	<2.4	15,700 ^A	<2.7	472	<2.8	<2.9	<2.7	29.4	<2.7	36	<2.6	33.3	
Benzo(k)fluoranthene	1,480	21,100	870,000	25.2	<19.6	<3.6	<3.4	23,000 ^{AB}	<3.8	679 ^A	<3.9	<4	<3.8	43.3	<3.8	97	<3.7	105	
Chrysene	14,800	211,000	144.6	74.2	206 ^C	<3.5	<3.3	34,600 ^{AC}	<3.7	891 ^C	<3.8	<3.9	<3.7	78.1	<3.7	151 ^C	<3.6	161 ^C	
Dibenz(a,h)anthracene	15	211	38,000	14.5 ^J	<28.8	<5.2	<5.0	6,510 ^{AB}	<5.6	185 ^A	<5.7	<5.9	<5.5	10.9 ^J	<5.6	13.8 ^J	<5.4	18.6 ^{JA}	
Fluoranthene	2,290,000	22,000,000	88,877.8	99.4	<52.8	<9.6	<9.2	71,900	<10.2	1800	<10.5	<10.8	<10.1	107	<10.3	219	<10	238	
Fluorene	2,290,000	22,000,000	14,802.7	5.4 ^J	121	<4.8	<4.6	6,400	<5.1	<43.6	<5.2	5.6 ^J	<5	4.9 ^J	<5.1	14.7 ^J	<5	7 ^J	
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	33.2	<15	<2.7	<2.6	14,800 ^{AB}	<2.9	425 ^A	<3	<3.1	<2.9	26.8	<2.9	32	<2.8	35.4	
Naphthalene	5,150	26,000	658.2	27.6	68.8 ^J	<3.4	<3.2	8,580 ^{AC}	9.8 ^J	37.5 ^J	<3.7	<3.8	<3.6	90	14.7 ^J	127	<3.5	42	
Phenanthrene	18,000	390,000	1,800	142	824	<4.2	<4.0	65,200 ^{AC}	6.2 ^J	1170	<4.6	6 ^J	<4.5	165	6.2 ^J	312	<4.4	183	
Pyrene	1,720,000	16,500,000	54,132.2	93.3	189	<3.5	<3.4	52,300	4.4 ^J	1380	<3.8	<4	<3.7	98.9	<3.8	265	<3.7	179	
Diesel Range Organics (mg/kg)	--	--	--	137	15,100	NT	NT	5,380	11.8	27.1	7.3	612	713	24.1	5.6	59.3	8	239	

Table 9c
CS3 Polycyclic Aromatic Hydrocarbons and Diesel Range Organics in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-306	PZ-307	PZ-307	PZ-308	PZ-308	PZ-308	PZ-309	PZ-309	PZ-310	PZ-310	PZ-311	PZ-311	PZ-312	PZ-312	PZ-313
	Direct Contact Pathway		Groundwater Pathway	(6-7)	(3-4)	(7-8)	(3-4)	(3-4) FD	(6-7)	(3-4)	(6-7)	(3-4)	(6-7)	(3-4)	(7-8)	(3-4)	(7-8)	(3-4)
	Non-Industrial	Industrial		12/20/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/19/11	12/19/11	12/19/11	12/19/11	12/16/11	12/16/11	12/16/11	12/16/11	12/15/11
PAHs (µg/kg)																		
1-Methylnaphthalene	15,600	53,100	23,000	128	16.9 ^J	<3	10.6 ^J	11.8 ^J	<3.2	37.5	<3.2	<2.9	202 ^J	947	<2.9	32.9	<3.3	<29.3
2-Methylnaphthalene	229,000	2,200,000	20,000	220	26.3	<3	15.6 ^J	18.2 ^J	<3.2	44.9	<3.2	<2.9	331 ^J	1030	<2.9	60.2	<3.3	40.4 ^J
Acenaphthene	3,440,000	33,000,000	38,000	13.8 ^J	<2.8	<2.8	<2.7	<2.7	<3	43.5	<3	<2.7	<51.2	67	<2.7	8.2 ^J	<3	77.2 ^J
Acenaphthylene	18,000	360,000	700	<3.2	23.6	<3.2	<3.1	<3	<3.3	5 ^J	<3.4	<3	1,600 ^C	29.3	<3.1	32.4	<3.4	<30.5
Anthracene	17,200,000	100,000,000	197,727.3	<4.7	26.6	<4.6	<4.5	<4.4	<4.9	12.2 ^J	<4.9	<4.4	1,330	18.4 ^J	<4.5	18.9	<5	124 ^J
Benzo(a)anthracene	148	2,110	17,000	<2.9	61.5	<2.8	9.7 ^J	12.7 ^J	<3	22.1	<3	15.6 ^J	4,220 ^{AB}	39.3	<2.7	23	<3.1	372 ^A
Benzo(a)pyrene	15	211	470	<3.3	84 ^A	<3.2	8.1 ^J	10.5 ^J	<3.4	16 ^{JA}	<3.5	14 ^J	6,270 ^{ABC}	23.5 ^A	<3.2	14 ^J	<3.5	56.9 ^{JA}
Benzo(b)fluoranthene	148	2,110	479.3	<3.5	96.6 ^A	<3.4	15.7 ^J	19.7	<3.6	19.1 ^J	<3.7	11.4 ^J	6,180 ^{AB}	25.1	<3.3	18.2	<3.7	81 ^J
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	<2.7	40	<2.6	4 ^J	4.6 ^J	<2.8	7.9 ^J	<2.8	8.2 ^J	2,910 ^A	18.7 ^J	<2.5	12.1 ^J	<2.9	35 ^J
Benzo(k)fluoranthene	1,480	21,100	870,000	<3.8	75.6	<3.7	9.5 ^J	15.6 ^J	<3.9	14.9 ^J	<3.9	13 ^J	4,370 ^A	27.9	<3.6	17 ^J	<4	<35.6
Chrysene	14,800	211,000	144.6	<3.7	81.3	<3.6	18.8 ^J	30.9	<3.8	36.1	<3.8	15.7 ^J	5,110 ^C	71.1	5.3 ^J	48.2	5.2 ^J	871 ^C
Dibenz(a,h)anthracene	15	211	38,000	<5.5	14.8 ^J	<5.4	<5.2	<5.2	<5.7	<5.6	<5.8	<5.2	1,230 ^{AB}	<5.7	<5.2	<4.9	<5.9	<52.2
Fluoranthene	2,290,000	22,000,000	88,877.8	<10.2	89.8	<9.9	15 ^J	15.8 ^J	<10.5	46	<10.6	23.1	5,520	81.1	<9.6	66.7	<10.8	259
Fluorene	2,290,000	22,000,000	14,802.7	15.2 ^J	<5	<4.9	<4.8	<4.8	<5.2	25	<5.3	<4.7	151 ^J	60.9	<4.8	12.1 ^J	<5.4	58.3 ^J
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	<2.9	38.1	<2.8	3.2 ^J	3.9 ^J	<3	7.3 ^J	<3	7.1 ^J	2,850 ^{AB}	13.1 ^J	<2.7	8.5 ^J	<3.1	<27.2
Naphthalene	5,150	26,000	658.2	29.4	22.7	<3.5	13.2 ^J	15.5 ^J	5.1 ^J	50.5	<3.7	<3.3	446	511	4 ^J	110	<3.8	149 ^J
Phenanthrene	18,000	390,000	1,800	19.6 ^J	54	<4.4	31.2	34	<4.6	63.1	<4.7	<4.2	1,450	292	<4.2	116	4.7 ^J	166 ^J
Pyrene	1,720,000	16,500,000	54,132.2	3.8 ^J	91.5	<3.6	14.6 ^J	17.3 ^J	<3.8	41	<3.9	27.3	5,590	77.3	<3.5	62.3	4.7 ^J	649
Diesel Range Organics (mg/kg)	--	--	--	14.6	16 ^b	5.5 ^b	31.1	45.9	5.4 ^b	767	6.3	9.3	5.4	94.2	189	294	43.8	5,150

Table 9c
CS3 Polycyclic Aromatic Hydrocarbons and Diesel Range Organics in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-313 (7-8) 12/15/11	PZ-314 (2-3) 12/21/11	PZ-314 (6-7) 12/21/11	PZ-315 (3-4) 03/25/14	PZ-316 (3-4) 03/19/14	PZ-317 (3-4) 03/19/14	PZ-319 (3-4) 03/19/14	PZ-320 (3-4) 03/20/14	GP-321 (1-2) 12/13/11	GP-321 (6-7) 12/13/11	GP-322 (2-3) 12/13/11	GP-322 (7-8) 12/13/11	GP-322 (7-8) FD 12/13/11	GP-323 (2-3) 12/14/11	GP-323 (6-7) 12/14/11	
	Direct Contact Pathway		Groundwater Pathway																
	Non-Industrial	Industrial																	
PAHs (µg/kg)																			
1-Methylnaphthalene	15,600	53,100	23,000	<3	32.7	3.4 ^J	9.7 ^J	<48.3	12.4 ^J	1,860	18.7	24.8	8.5 ^J	21.8	2550	2470	15.5 ^J	<3	
2-Methylnaphthalene	229,000	2,200,000	20,000	<3	38.9	<3.1	11.2 ^J	58.8 ^J	16.8 ^J	2,910	26.5	29.6	9.8 ^J	26.2	1380	1380	23	<3	
Acenaphthene	3,440,000	33,000,000	38,000	<2.7	13.9 ^J	<2.9	<8.8	<48.3	<9.3	486	<8.9	<2.5	<2.9	<2.5	128 ^J	120 ^J	<2.4	<2.8	
Acenaphthylene	18,000	360,000	700	<3.1	22	<3.3	<7.8	<43.2	<8.3	237 ^J	<8	<2.8	<3.3	<2.8	108 ^J	109 ^J	<2.7	<3.2	
Anthracene	17,200,000	100,000,000	197,727.3	<4.5	88.2	<4.8	11.6 ^J	234	<9.6	1,060	10 ^J	8.4 ^J	<4.8	5.4 ^J	72.1 ^J	61.1 ^J	<4	<4.6	
Benzo(a)anthracene	148	2,110	17,000	<2.8	193 ^A	<2.9	35	685 ^A	11.3 ^J	797 ^A	18.8	35.2	<2.9	14.9 ^J	78.2 ^J	70.3 ^J	7.1 ^J	<2.8	
Benzo(a)pyrene	15	211	470	<3.2	200 ^A	<3.4	48.1 ^A	766 ^{ABC}	9.2 ^J	512 ^{ABC}	21.5 ^A	35.9 ^A	<3.4	9.5 ^J	77.3 ^{JA}	71.8 ^{JA}	<2.8	<3.3	
Benzo(b)fluoranthene	148	2,110	479.3	<3.4	173 ^A	<3.6	44.5	653 ^{AC}	10.7 ^J	196 ^{JA}	25.4	36.5	<3.6	15.8 ^J	74 ^J	66.6 ^J	8 ^J	<3.4	
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	<2.6	95.9	<2.7	57	626	<7.1	432	12.8 ^J	26.8	<2.7	10.8 ^J	34.7 ^J	32.1 ^J	<2.3	<2.6	
Benzo(k)fluoranthene	1,480	21,100	870,000	<3.6	143	<3.8	47.6	696	10.6 ^J	<214	20.6	34.2	<3.8	10.4 ^J	57 ^J	52.1 ^J	3.7 ^J	<3.7	
Chrysene	14,800	211,000	144.6	3.9 ^J	237 ^C	4.3 ^J	49.1	785 ^C	17.6 ^J	2,080 ^C	30.8	43.4	<3.8	26.4	100 ^J	90.7 ^J	26.8	<3.6	
Dibenz(a,h)anthracene	15	211	38,000	<5.3	36.2 ^A	<5.6	15.9 ^{JA}	206 ^A	<6.8	142 ^{JA}	<6.6	10.7 ^J	<5.6	<4.9	<50.7	<51.2	<4.6	<5.4	
Fluoranthene	2,290,000	22,000,000	88,877.8	<9.7	402	<10.3	47.5	1280	20.5	243 ^J	38.6	60	<10.3	24.1	197	175 ^J	11.2 ^J	<10	
Fluorene	2,290,000	22,000,000	14,802.7	<4.8	18.9 ^J	<5.1	<8.8	<48.3	<9.3	759	<8.9	<4.4	<5.1	<4.4	177 ^J	164 ^J	<4.2	<5	
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	<2.8	80.7	<2.9	44.3	541 ^A	<7	<147	11.8 ^J	23	<2.9	7.5 ^J	<26.5	<26.7	<2.4	<2.8	
Naphthalene	5,150	26,000	658.2	<3.4	41.5	<3.6	9.4 ^J	88.8 ^J	12.4 ^J	887 ^C	27.3	12.7 ^J	4.9 ^J	20.1	1700 ^C	1590 ^C	19.7	<3.5	
Phenanthrene	18,000	390,000	1,800	9.6 ^J	395	8.2 ^J	30.9	776 ^C	31.6	3,930 ^C	50.8	40.1	5.1 ^J	49.9	500	449	31.4	<4.4	
Pyrene	1,720,000	16,500,000	54,132.2	5.3 ^J	494	4.6 ^J	57.1	1060	22.6	4,590	38.5	48	4.3 ^J	25.3	235	213	9.8 ^J	<3.7	
Diesel Range Organics (mg/kg)	--	--	--	25 ^b	20.7	<1.9	NT	NT	NT	NT	NT	9.9	4 ^J	179	6,380	1,100	18.4 ^b	7.7 ^b	

Table 9c
CS3 Polycyclic Aromatic Hydrocarbons and Diesel Range Organics in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-324	GP-324	GP-325	GP-325	GP-326	GP-326	GP-330	GP-330	GP-331	GP-331	GP-332	GP-332	GP-333	GP-333	GP-334
	Direct Contact Pathway		Groundwater Pathway	(3-4)	(6-7)	(3-4)	(6-7)	(8-9)	(9-10)	(2-3)	(6-7)	(3-4)	(6-7)	(1-2)	(4-5)	(3-4)	(6-7)	(1-2)
	Non-Industrial	Industrial		12/14/11	12/14/11	12/15/11	12/15/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/22/11	12/22/11	12/14/11	12/14/11	03/26/14
PAHs (µg/kg)																		
1-Methylnaphthalene	15,600	53,100	23,000	48	4 ^J	57.8	<3.1	9.5 ^J	<3.2	111	3.7 ^J	<3.6	21.2 ^J	6 ^J	<2.9	119 ^J	<3.1	33.8
2-Methylnaphthalene	229,000	2,200,000	20,000	68.8	5.7 ^J	108	<3.1	13.2 ^J	<3.2	164	4 ^J	3.8 ^J	15.9 ^J	8.2 ^J	3.7 ^J	154 ^J	<3.1	61.2
Acenaphthene	3,440,000	33,000,000	38,000	33.7	3.6 ^J	45.4	<2.8	<2.6	<3	25.1 ^J	<2.9	<3.4	33.5 ^J	<2.7	<2.7	81.2 ^J	<2.9	<9.6
Acenaphthylene	18,000	360,000	700	21	<3	21	<3.2	<3	<3.4	19.9 ^J	<3.3	<3.8	<15.1	6.2 ^J	<3.1	1,530 ^C	<3.2	<8.6
Anthracene	17,200,000	100,000,000	197,727.3	110	4.9 ^J	84.1	<4.7	<4.4	<4.9	35.1 ^J	<4.9	<5.6	71.7 ^J	8.3 ^J	<4.5	1,280	<4.7	12 ^J
Benzo(a)anthracene	148	2,110	17,000	30.8	5.5 ^J	69.8	<2.9	<2.7	<3	49.8 ^J	<3	5.5 ^J	142	19 ^J	<2.7	3,340 ^{AB}	<2.9	29.1
Benzo(a)pyrene	15	211	470	19 ^A	<3.1	39.6 ^A	<3.3	<3.1	<3.4	24.4 ^{JA}	<3.4	4.4 ^J	114 ^A	21.6 ^A	<3.2	3,810 ^{ABC}	<3.3	26.3 ^A
Benzo(b)fluoranthene	148	2,110	479.3	22.3	5.3 ^J	70.3	<3.5	<3.2	<3.6	39.6 ^J	<3.6	7.1 ^J	129	21.3	<3.3	3,480 ^{ABC}	<3.5	27
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	8 ^J	2.9 ^J	18.6 ^J	<2.7	<2.5	<2.8	17.9 ^J	<2.8	3.5 ^J	75.9 ^J	10.5 ^J	<2.5	1,980 ^A	<2.7	18.1 ^J
Benzo(k)fluoranthene	1,480	21,100	870,000	18.9	3.9 ^J	51.7	<3.8	<3.5	<3.9	27.5 ^J	<3.9	6 ^J	98.2	20.5	<3.6	2,960 ^A	<3.8	28.7
Chrysene	14,800	211,000	144.6	41.8	11.7 ^J	116	<3.7	<3.4	<3.8	94.9	4.1 ^J	10.7 ^J	254 ^C	23.1	<3.5	3,590 ^C	4.8 ^J	47.1
Dibenz(a,h)anthracene	15	211	38,000	<5	<5.2	6.7 ^J	<5.5	<5.1	<5.7	<25	<5.7	<6.5	<25.8	<5.2	<5.2	837 ^{AB}	<5.5	<7
Fluoranthene	2,290,000	22,000,000	88,877.8	135	24.9	254	<10.1	<9.4	<10.5	166	<10.4	<11.9	230	29.1	<9.6	4,210	<10.2	63.9
Fluorene	2,290,000	22,000,000	14,802.7	66.7	15 ^J	34.4	<5	<4.7	<5.2	49.7 ^J	<5.2	<5.9	58 ^J	<4.8	<4.8	150 ^J	<5.1	<9.6
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	6.4 ^J	<2.7	17.1 ^J	<2.9	<2.7	<3	13.3 ^J	<3	<3.4	70.2 ^J	10.3 ^J	<2.7	1,940 ^A	<2.9	15.6 ^J
Naphthalene	5,150	26,000	658.2	122	<3.3	192	5.8 ^J	13.3 ^J	<3.7	223	<3.7	4.2 ^J	<16.6	10.2 ^J	<3.4	296 ^J	<3.6	34
Phenanthrene	18,000	390,000	1,800	415	59.6	508	<4.4	11.2 ^J	<4.6	296	8.2 ^J	15.4 ^J	364	21.6	<4.2	1,610	<4.5	68.4
Pyrene	1,720,000	16,500,000	54,132.2	140	17.8 ^J	222	<3.7	<3.4	<3.9	133	6.2 ^J	18.2 ^J	342	22.9	<3.5	5,180	4.6 ^J	54.2
Diesel Range Organics (mg/kg)	--	--	--	304	59.2	893	16.4	8.2 ^b	565	6,020	39.8	129	3,730	11.5	8.7	781	19 ^b	NT

Table 9c
CS3 Polycyclic Aromatic Hydrocarbons and Diesel Range Organics in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-335	GP-336	GP-340	GP-340	GP-341	GP-342	GP-343	GP-344	GP-345	GP-346	PZ-353	PZ-353	PZ-354
	Direct Contact Pathway		Groundwater Pathway	(3-4)	(1-2)	(2-4)	(2-4) FD	(3-4)	(3-4)	(3-4)	(3-4)	(2-4)	(3-4)	(2-4)	(2-4) FD	(2-3)
	Non-Industrial	Industrial		03/25/14	03/26/14	03/24/14	03/24/14	03/24/14	03/24/14	03/25/14	03/24/14	03/25/14	03/25/14	03/20/14	03/20/14	03/19/14
PAHs (µg/kg)																
1-Methylnaphthalene	15,600	53,100	23,000	33.8	37.4	50.9 ^J	21.5 ^J	<8.9	375 ^J	61	<8.7	<8.8	<10.4	30.4 ^J	<8.7	19.5 ^J
2-Methylnaphthalene	229,000	2,200,000	20,000	34.3	52.1	60	36.4	<8.9	<366	79.4	<8.7	<8.8	<10.4	37.4	<8.7	23.9
Acenaphthene	3,440,000	33,000,000	38,000	<10	<9.8	31.8	<9.8	<8.9	460 ^J	<9	<8.7	<8.8	<10.4	61.4	<8.7	<11.1
Acenaphthylene	18,000	360,000	700	30.9	16.7 ^J	45.8	53.5	<8	794 ^C	9 ^J	<7.8	<7.9	<9.3	24.1 ^J	<7.7	<9.9
Anthracene	17,200,000	100,000,000	197,727.3	33.2	18.7 ^J	119 ^J	73.9 ^J	<9.3 ^J	2,150	25.4	<9 ^J	<9.2	<10.7	129 ^J	<9 ^{UJ}	18.1 ^J
Benzo(a)anthracene	148	2,110	17,000	57.6	35.5	195 ^A	228 ^A	<6.2	3,770 ^{AB}	41.6	<6	<6.1	<7.2	402 ^{JA}	7.7 ^J	26
Benzo(a)pyrene	15	211	470	66.9 ^A	45.5 ^A	174 ^A	265 ^{AB}	<6.4	3,960 ^{ABC}	44.4 ^A	<6.2	<6.3	<7.4	522 ^{JABC}	6.9 ^J	12.5 ^J
Benzo(b)fluoranthene	148	2,110	479.3	71.8	47.6	183 ^A	255 ^A	<8.9	3,570 ^{ABC}	60.3	<8.7	<8.8	<10.4	504 ^{JAC}	<8.7 ^{UJ}	21 ^J
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	30.1	36.8	116	181	<6.8	1,860 ^A	29	<6.6	<6.7	<7.9	216 ^J	<6.6 ^{UJ}	11.6 ^J
Benzo(k)fluoranthene	1,480	21,100	870,000	71.5	40.1	135 ^J	244 ^J	<9.9	3,560 ^A	46.9	<9.6	<9.8	<11.5	469 ^J	<9.6 ^{UJ}	15.7 ^J
Chrysene	14,800	211,000	144.6	88.9	53.7	233 ^C	301 ^C	<8.3	4,450 ^C	73.3	<8.1	<8.2	<9.6	464 ^{JC}	10.7 ^J	41.7
Dibenz(a,h)anthracene	15	211	38,000	12.3 ^J	13 ^J	48 ^A	64 ^A	<6.5	704 ^{JAB}	12.6 ^J	<6.4	<6.5	<7.6	97.2 ^{JA}	<6.3	<8.2
Fluoranthene	2,290,000	22,000,000	88,877.8	83.2	65.2	377	429	<8.9	8,940	77.4	<8.7	<8.8	<10.4	779 ^J	15.1 ^J	81.7
Fluorene	2,290,000	22,000,000	14,802.7	<10	<9.8	38	13.4 ^J	<8.9	969	<9	<8.7	<8.8	<10.4	41.1	<8.7	<11.1
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	29.6	30.2	111	170 ^A	<6.8	1,850 ^A	26.9	<6.6	<6.7	<7.9	239 ^{JA}	<6.6 ^{JU}	9
Naphthalene	5,150	26,000	658.2	38	46.6	63.7	87.6	<8.9	623 ^J	65.1	<8.7	<8.8	<10.4	29.4 ^J	<8.7	23
Phenanthrene	18,000	390,000	1,800	55.3	86	389 ^J	164 ^J	<8.9	8,100 ^C	131	<8.7	<8.8	<10.4	466 ^J	18.6 ^J	95.4
Pyrene	1,720,000	16,500,000	54,132.2	109	59.5	326	338	<8.9	7,730	70.7	<8.7	<8.8	<10.4	761 ^J	14.2 ^J	66.4
Diesel Range Organics (mg/kg)	--	--	--	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

Notes:

PAHs = Polycyclic Aromatic Hydrocarbons

mg/kg = Milligrams per kilogram ug/kg = Micrograms per kilogram

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact

^B = Parameter exceeds Generic RCL for Industrial Direct Contact

^C = Parameter exceeds Generic RCL for Groundwater Pathway

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

^b = Analyte was detected in the method blank

^U = Not detected, detection limit elevated based on lab QC; see data validation memo.

⁺ = Value estimated due to matrix effect (⁺ = biased high) (⁻ = biased low)

-- = No generic RCL established

NT = Not Tested

DUP/D/FD = Field duplicate

Generic RCLs June 2014 per WDNR PUB-RR-890.

Table 9d
CS3 Selected Metals in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-47	PZ-301	PZ-302	MW-303	PZ-304	PZ-305	PZ-306	PZ-307	PZ-308	PZ-308	PZ-309	PZ-310	PZ-311	PZ-312
	Direct Contact Pathway		Groundwater	(3-4)	(2-3)	(2-3)	(3-4)	(3-4)	(2-3)	(2-4)	(3-4)	(3-4)	(3-4)FD	(3-4)	(3-4)	(3-4)	(3-4)
	Non-Industrial	Industrial	Pathway	12/14/11	12/21/11	12/20/11	12/20/11	12/15/11	12/15/11	12/20/11	12/14/11	12/14/11	12/14/11	12/19/11	12/19/11	12/16/11	12/16/11
Metals (mg/kg)																	
Arsenic	0.613	2.39	0.58	3.9 ^{ABC}	17.8 ^{ABC}	1.9 ^{JAC}	72 ^{ABC}	5.9 ^{ABC}	7.6 ^{ABC}	21.5 ^{JABC}	249 ^{ABC}	2.8 ^{ABC}	2.6 ^{ABC}	4.4 ^{ABC}	11.5 ^{ABC}	6.9 ^{ABC}	3.9 ^{ABC}
Barium	15,300	100,000	164.8	20.5	186 ^C	20.4	87.5	810 ^C	215 ^C	148	1030 ^C	28.4	28.7	187 ^C	28.7	82.9	71.8
Cadmium	70	799	0.752	0.61	2.4 ^{JC}	0.091 ^J	<0.21	1.1 ^C	0.81 ^C	0.47 ^J	3 ^C	0.15 ^J	0.15 ^J	0.22 ^J	0.14 ^J	0.25 ^J	0.26 ^J
Chromium	100,000	100,000	360	7.7	66.6	3.4	22.9	20.3	20.6	68.4	58.5	10.5	7.3	27.4	11.1	18.2	11.9
Copper	3,130	40,900	91.6	1370 ^C	98 ^C	6.6	15.3	49.4	213 ^C	379 ^C	70.2	76	107 ^C	33.4	14.9	28.1	57.8
Lead	400	800	27	108 ^C	178 ^C	62.7 ^C	18.9	275 ^C	153 ^C	395 ^C	683 ^{AC}	20.6	30.7 ^C	78.1 ^C	9.1	18.8	163 ^C
Mercury	3.13	3.13	0.42	0.048	0.031	0.016	0.03	0.055	0.065	0.022	1.2 ^C	0.006	0.007	0.025	0.008	0.028	0.014
Nickel	1,550	19,800	13.1	17.1 ^C	67.3 ^C	3.9	29.9 ^C	33.3 ^C	47.2 ^C	195 ^C	91.7 ^C	11.6	9	27.9 ^C	14 ^C	20.1 ^C	33.6 ^C
Selenium	391	5,110	0.52	<0.33	<0.36	<0.29	<3.7	0.48 ^J	0.49 ^J	<3.5	0.46 ^J	<0.31	<0.31	0.61 ^{JC}	0.46 ^J	0.73 ^{JC}	0.55 ^{JC}
Silver	78.2	5,110	0.85	0.39 ^J	0.68 ^J	<0.086	0.81 ^J	0.15 ^J	0.32 ^J	0.97 ^{JC}	0.41 ^J	0.12 ^J	<0.091	0.16 ^J	<0.091	0.16 ^J	0.23 ^J
Zinc	23,500	100,000	--	205	864	33.7	38	224	250	212	1400	115	101	65.1	24.8	48.3	188

**Table 9d
CS3 Selected Metals in Soil
Kenosha Engine Plant**

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-313	PZ-314	PZ-320	GP-321	GP-322	GP-323	GP-324	GP-325	GP-326	GP-330	GP-331	GP-332
	Direct Contact Pathway		Groundwater	(3-4)	(2-3)	(3-4)	(1-2)	(2-3)	(2-3)	(3-4)	(3-4)	(8-9)	(2-3)	(3-4)	(1-2)
	Non-Industrial	Industrial	Pathway	12/15/11	12/21/11	03/20/14	12/13/11	12/13/11	12/14/11	12/14/11	12/15/11	12/14/11	12/14/11	12/14/11	12/22/11
Metals (mg/kg)															
Arsenic	0.613	2.39	0.58	71.9 ^{ABC}	4 ^{ABC}	2.7 ^{ABC}	4.6 ^{ABC}	5 ^{ABC}	1.3 ^{JAC}	4.8 ^{ABC}	22.1 ^{JABC}	9.6 ^{ABC}	7.7 ^{ABC}	7.1 ^{ABC}	4.3 ^{ABC}
Barium	15,300	100,000	164.8	101	224 ^C	186 ^C	29.4	26.8	12	243 ^C	976 ^C	58.5	653 ^C	102	60.3
Cadmium	70	799	0.752	3.6 ^{JC}	0.41 ^J	0.31 ^J	0.15 ^J	0.15 ^J	0.021 ^J	0.69	1.6 ^{JC}	0.24 ^J	0.78 ^C	0.39 ^J	0.12 ^J
Chromium	100,000	100,000	360	92.1	24.6	7.1	13.9	8.3	5.7	17.4	42.8	13.4	34.1	19.5	13.2
Copper	3,130	40,900	91.6	389 ^C	221 ^C	20.6	14.1	17.5	6.5	53.2	1970 ^C	22.4	59.2	23.3	13.6
Lead	400	800	27	419 ^{AC}	677 ^{AC}	36.7 ^C	13.8	7.7	5.9	891 ^{ABC}	367 ^C	14.4	74.8 ^C	10.9	12.9
Mercury	3.13	3.13	0.42	0.031	0.047	0.047	0.013	0.013	0.004 ^J	0.02	0.062	0.021	0.16	0.034	0.013
Nickel	1,550	19,800	13.1	520 ^C	18.1 ^C	10	9.6	12.7	4.3	26.7 ^C	97.2 ^C	22 ^C	75 ^C	16.3 ^C	13.5 ^C
Selenium	391	5,110	0.52	0.37 ^J	0.6 ^{JC}	<0.59	<0.3	0.4 ^J	<0.29	<0.32	0.88 ^{JC}	0.55 ^{JC}	0.72 ^{JC}	0.77 ^{JC}	<0.3
Silver	78.2	5,110	0.85	1.9 ^C	0.19 ^J	<0.21	<0.09	<0.091	<0.085	0.38 ^J	0.97 ^{JC}	0.13 ^J	0.36 ^J	0.17 ^J	<0.089
Zinc	23,500	100,000	--	202	195	43.5	32.3	35	19.9	150	518	47.6	166	41.8	33.3

Table 9d
CS3 Selected Metals in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-333	GP-340	GP-340	GP-341	GP-342	GP-343	GP-344	GP-345	GP-346
	Direct Contact Pathway		Groundwater	(3-4)	(2-4)	(2-4) FD	(3-4)	(3-4)	(3-4)	(3-4)	(2-4)	(3-4)
	Non-Industrial	Industrial	Pathway	12/14/11	03/24/14	03/24/14	03/24/14	03/24/14	03/25/14	03/24/14	03/25/14	03/25/14
Metals (mg/kg)												
Arsenic	0.613	2.39	0.58	5.9 ^{ABC}	NT	NT	NT	NT	NT	NT	NT	NT
Barium	15,300	100,000	164.8	348 ^C	NT	NT	NT	NT	NT	NT	NT	NT
Cadmium	70	799	0.752	0.73	NT	NT	NT	NT	NT	NT	NT	NT
Chromium	100,000	100,000	360	18	NT	NT	NT	NT	NT	NT	NT	NT
Copper	3,130	40,900	91.6	284 ^C	NT	NT	NT	NT	NT	NT	NT	NT
Lead	400	800	27	584 ^{AC}	62.1 ^C	47.2 ^C	2.4	116 ^C	74.8 ^C	2.4	4.2	28.8 ^C
Mercury	3.13	3.13	0.42	0.029	NT	NT	NT	NT	NT	NT	NT	NT
Nickel	1,550	19,800	13.1	46.2 ^C	NT	NT	NT	NT	NT	NT	NT	NT
Selenium	391	5,110	0.52	0.45 ^J	NT	NT	NT	NT	NT	NT	NT	NT
Silver	78.2	5,110	0.85	0.29 ^J	NT	NT	NT	NT	NT	NT	NT	NT
Zinc	23,500	100,000	--	246	NT	NT	NT	NT	NT	NT	NT	NT

Notes:

mg/kg = Milligrams per kilogram ug/kg = Micrograms per kilogram

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact

^B = Parameter exceeds Generic RCL for Industrial Direct Contact

^C = Parameter exceeds Generic RCL for Groundwater Pathway

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

-- = No generic RCL established

DUP/D/FD = Field duplicate

NT = Not Tested

Generic RCLs June 2014 per WDNR PUB-RR-890

Sample locations not analyzed for metals, are not listed on the table

Table 9e
CS3 Polychlorinated Biphenyls in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-304	PZ-304	PZ-310	PZ-310	PZ-314	PZ-314	GP-321	GP-321	GP-322
	Direct Contact Pathway		Groundwater Pathway	(3-4)	(7-8)	(3-4)	(6-7)	(2-3)	(6-7)	(1-2)	(6-7)	(2-3)
	Non-Industrial	Industrial		12/15/11	12/15/11	12/19/11	12/19/11	12/21/11	12/21/11	12/13/11	12/13/11	12/13/11
PCBs (µg/kg)												
Aroclor 1016	3930	21200	9.4	<27.8	<29.1	<27	<25.8	<29.4	<29.3	<24.9	<29.3	<25.3
Aroclor 1221	159	589	9.4	<27.8	<29.1	<27	<25.8	<29.4	<29.3	<24.9	<29.3	<25.3
Aroclor 1232	159	589	9.4	<27.8	<29.1	<27	<25.8	<29.4	<29.3	<24.9	<29.3	<25.3
Aroclor 1242	221	744	9.4	<27.8	<29.1	<27	<25.8	<29.4	<29.3	<24.9	<29.3	<25.3
Aroclor 1248	221	744	9.4	<27.8	<29.1	<27	<25.8	<29.4	<29.3	<24.9	<29.3	<25.3
Aroclor 1254	221	744	9.4	<27.8	<29.1	<27	<25.8	<29.4	<29.3	<24.9	<29.3	38.8 ^{CJ}
Aroclor 1260	221	744	9.4	<27.8	<29.1	<27	<25.8	<29.4	<29.3	<24.9	<29.3	55.3 ^{CJ}
PCB, Total	--	--	--	<27.8	<29.1	<27	<25.8	<29.4	<29.3	<24.9	<29.3	94.1 ^J

Parameters	Generic RCLs			GP-322	GP-322	GP-327	GP-327	GP-327	GP-328	GP-329	GP-329
	Direct Contact Pathway		Groundwater Pathway	(7-8)	(7-8) FD	(2-3)	(2-3) FD	(6-7)	(3-4)	(2-3)	(6-7)
	Non-Industrial	Industrial		12/13/11	12/13/11	12/13/11	12/13/11	12/13/11	12/13/11	12/13/11	12/13/11
PCBs (µg/kg)											
Aroclor 1016	3930	21200	9.4	<26.4	<26.7	<26.4	<27.5	<28.9	<26.3	<27.3	<28.5
Aroclor 1221	159	589	9.4	<26.4	<26.7	<26.4	<27.5	<28.9	<26.3	<27.3	<28.5
Aroclor 1232	159	589	9.4	<26.4	<26.7	<26.4	<27.5	<28.9	<26.3	<27.3	<28.5
Aroclor 1242	221	744	9.4	<26.4	<26.7	<26.4	<27.5	<28.9	<26.3	<27.3	<28.5
Aroclor 1248	221	744	9.4	<26.4	<26.7	<26.4	<27.5	<28.9	<26.3	<27.3	<28.5
Aroclor 1254	221	744	9.4	<26.4	<26.7	<26.4	<27.5	<28.9	<26.3	<27.3	<28.5
Aroclor 1260	221	744	9.4	<26.4	<26.7	<26.4	<27.5	<28.9	<26.3	<27.3	<28.5
PCB, Total	--	--	--	<26.4	<26.7	<26.4	<27.5	<28.9	<26.3	<27.3	<28.5

Notes:

PCBs = Polychlorinated Biphenyls

mg/kg = Milligrams per kilogram. µg/kg = Micrograms per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

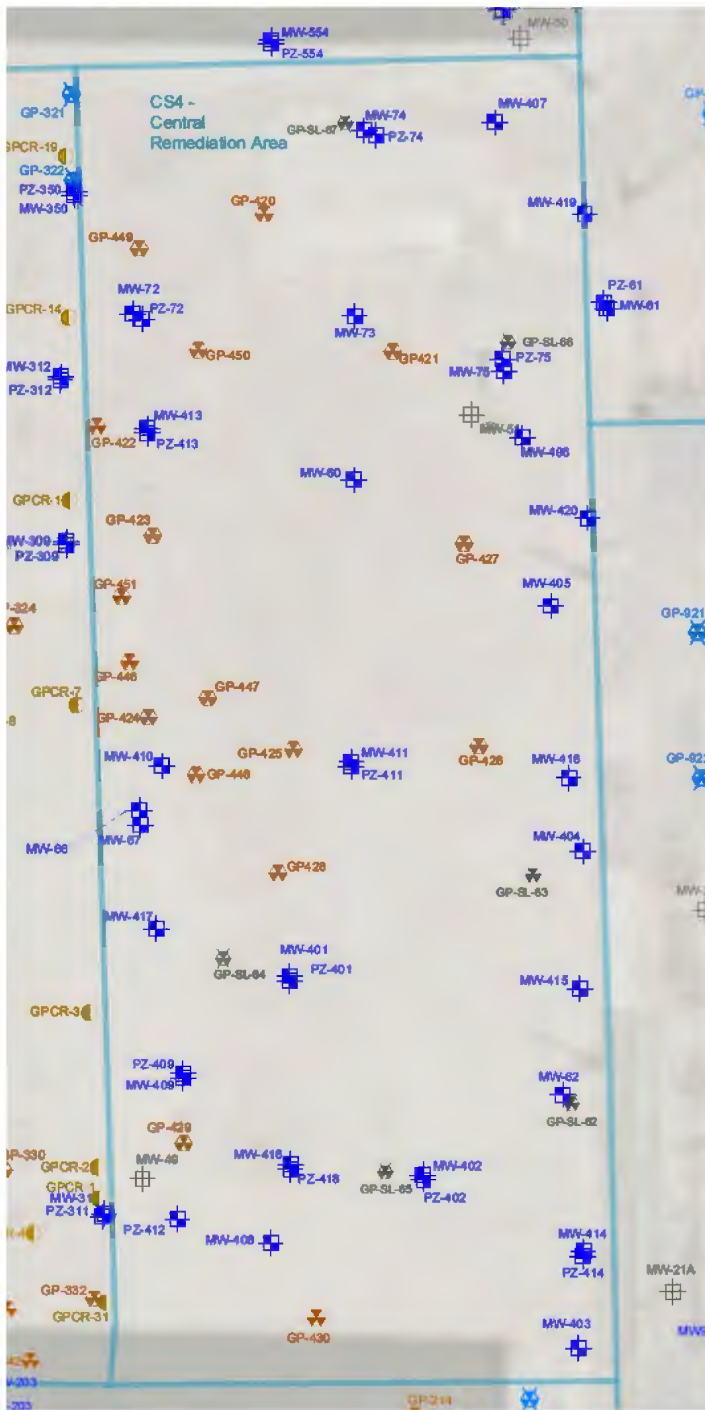
^C = Parameter exceeds Generic RCL for Groundwater Pathway.








^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

-- = No generic RCL established.

DUP/D/FD = Field duplicate.

Generic RCLs June 2014 per WDNR PUB-RR-890.



-  EXISTING WATER TABLE MONITORING WELL (MW) OR PIEZOMETER (PZ)
-  ABANDONED MONITORING WELL (MW) OR PIEZOMETER (PZ)
-  SOIL PROBE
-  SOIL PROBE - REFUSAL
-  SOIL PROBE / TEMPORARY MONITORING WELLS
-  PHASE II INVESTIGATION
-  INTERIM INVESTIGATION


Kenosha Innovation Neighborhood	CS4 SOIL SAMPLE LOCATIONS FORMER KENOSHA ENGINE PLANT KENOSHA, WISCONSIN	 1555 N. RiverCenter Dr., Suite 214 Milwaukee, WI 53212 414-944-6080 www.aecom.com Copyright©2012, By: AECOM
City of Kenosha		
Project 60677460		
January 23, 2024		
		Figure CS4

Table 10a
CS4 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-SL-62 (1-2) 05/26/11	GP-SL-62 (22-23) 05/26/11	GP-SL-63 (1-2) 05/26/11	GP-SL-63 (6-7) 05/26/11	GP-SL-63 (6-7) DUP 05/26/11	GP-SL-63 (25-26) 05/26/11	GP-SL-64 (1-2) 05/26/11	GP-SL-64 (6-7) 05/26/11	GP-SL-64 (22-23) 05/26/11	GP-SL-65 (1-2) 05/26/11	GP-SL-65 (6-7) 05/26/11	GP-SL-65 (22-23) 05/26/11	GP-SL-66 (2-3) 05/26/11	GP-SL-66 (2-3) DUP 05/26/11	
	Direct Contact Pathway		Groundwater Pathway															
	Non-Industrial	Industrial																
VOCs (µg/kg)																		
1,1,1-Trichloroethane	640,000	640,000	140.2	83.6	<25	143 ^c	<25	<25	<25	965 ^c	<25	<25	<25	<25	<25	<100	<125	
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	53.4	<25	<25	<25	660 ^c	<25	<25	<25	<25	<25	<100	<125	
1,2,3-Trichlorobenzene	48,900	493,000	--	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25	<25	<25	<100	<125	
1,2,4-Trichlorobenzene	89,800	219,000	408	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25	<25	<25	<100	<125	
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	2,140 ^c	174	<25	<25	<25	<25	637	438	
1,2-Dichlorobenzene	376,000	376,000	1,168	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25	<25	<25	<100	<125	
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	52.3	73.7	<25	1,360	62.5	<25	<25	<25	<25	227	193	
1,3-Dichlorobenzene	297,000	297,000	1,152.80	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25	<25	<25	<100	<125	
1,4-Dichlorobenzene	3,480	17,500	144	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25	<25	<25	<100	<125	
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<100	68.8 ^c	<25	<25	<25	<25	1,050 ^c	933 ^c	
Chlorobenzene	392,000	761,000	--	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25	<25	<25	<100	<125	
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	42.3 ^c	<25	<25	<25	1,220 ^c	100 ^c	<25	<25	<25	68.8 ^c	<100	<125	
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	6,040 ^c	1,130	<25	<25	<25	<25	639	1,020	
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	35.3	47.4	<25	375	62.5	<25	<25	<25	<25	291	482	
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25	<25	<25	<100	<125	
Naphthalene	5,150	26,000	658.2	<25	<25	34.2	41.1	45.8	<25	463	<25	<25	<25	107	<25	685 ^c	962 ^c	
n-Butylbenzene	108,000	108,000	--	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<162	<40.4	<40.4	<40.4	76.7	<40.4	<162	<202	
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	70.8	95	<25	386	43.8	<25	<25	32.2	<25	449	644	
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	38.3	41.9	<25	<100	<25	<25	<25	<25	<25	299	499	
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25	45.8	<25	118	210	
tert-Butylbenzene	183,000	183,000	--	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25	<25	<25	<100	<125	
Tetrachloroethene	30,700	153,000	5	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25	<25	<25	<100	<125	
Toluene	818,000	818,000	1107.2	<25	<25	263	<25	<25	<25	2,600 ^c	119	<25	<25	<25	<25	362	376	
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25	<25	<25	<100	<125	
Trichloroethene	1,260	8,810	3.6	<25	<25	60 ^{ac}	<25	<25	<25	1,510 ^{ac}	<25	<25	<25	<25	66.7 ^c	<100	<125	
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	147 ^{ac}	<100	<25	<25	<25	<25	<25	<100	<125	
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<300	<375	

Table 10a
CS4 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-SL-66	GP-SL-66	GP-SL-67	GP-SL-67	GP-420	GP-420	GP-421	GP-421	GP-421	GP-422	GP-422	GP-423	GP-424	GP-424	
	Direct Contact Pathway		Groundwater Pathway	(7-8)	(24-25)	(2-3)	(23-24)	(1-2)	(5-6)	(1-2)	(5-7)	(5-7) DUP	(1-2)	(6-7)	(6-7)	(1-2)	(6-7)	
	Non-Industrial	Industrial		05/26/11	05/26/11	05/26/11	05/26/11	08/16/11	08/16/11	08/16/11	08/16/11	08/16/11	08/16/11	08/16/11	08/16/11	08/16/11	08/17/11	08/17/11
VOCs (µg/kg)																		
1,1,1-Trichloroethane	640,000	640,000	140.2	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	65.2 ^J	<25	62.2 ^J	63 ^J	<25
1,1-Dichloroethane	4,720	23,700	482.8	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,3-Trichlorobenzene	48,900	493,000	--	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trichlorobenzene	89,800	219,000	408	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	38.4 ^J
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	1,650^C	<25	<25	<25	78	<25	<25	<25	<25	<25	<25	<25	<25	37.9^J	493
1,2-Dichlorobenzene	376,000	376,000	1,168	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	1,750^C	<25	<25	<25	34^J	<25	<25	<25	<25	<25	<25	<25	<25	<25	102
1,3-Dichlorobenzene	297,000	297,000	1,152.80	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	144
1,4-Dichlorobenzene	3,480	17,500	144	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	238^C
Benzene	1,490	7,410	5.1	1,270^{AC}	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Chlorobenzene	392,000	761,000	--	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	687
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<62.5	<25	<25	267^C	<25	<25	<25	<25	<25	<25	874^C	<25	<25	99.6^C	<25
Ethylbenzene	7,470	37,000	1,570	2,310^C	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	1,240
Isopropylbenzene (Cumene)	268,000	268,000	--	717	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	267
Methylene Chloride	60,700	1,070,000	2.6	<62.5	<25	34.7^C	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	86.8^{bc}	130^{bc}
Naphthalene	5,150	26,000	658.2	4,750^C	<25	<25	<25	111^b	<25	<25	<25	<25	<25	<25	<25	<25	<25	766^C
n-Butylbenzene	108,000	108,000	--	<101	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	83.9
n-Propylbenzene	264,000	264,000	--	1,390	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	150
p-Isopropyltoluene	162,000	162,000	--	622	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	32.5^J
sec-Butylbenzene	145,000	145,000	--	396	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	34.3^J
tert-Butylbenzene	183,000	183,000	--	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	81.1^C	<25
Toluene	818,000	818,000	1107.2	1,120^C	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<62.5	<25	<25	<25	1,050^C	<25	<25	<25	<25	444^C	<25	80.4^C	1,680^{AC}	<25	<25
Vinyl chloride	67	2,030	0.1	<62.5	<25	<25	44.9^C	<25	<25	<25	<25	<25	<25	85.6^{AC}	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<187.5	<75	<75	<75	39.3^J	<75	<75	<75	<75	<75	<75	<75	<75	<75	2,747.2^J

Table 10a
CS4 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-425 (1-3) 08/17/11	GP-425 (1-3) DUP 08/17/11	GP-425 (5-6) 08/17/11	GP-426 (1-2) 08/17/11	GP-426 (4-5) 08/17/11	GP-426 (7.5-8.5) 08/17/11	GP-426 (21-22) 08/17/11	GP-427 (1-2) 08/16/11	GP-427 (5-6) 08/16/11	GP-428 (1-3) 08/17/11	GP-428 (5-6) 08/17/11	GP-429 (1-2) 08/17/11	GP-429 (6-7) 08/17/11	GP-430 (1-2) 08/17/11	
	Direct Contact Pathway		Groundwater Pathway															
	Non-Industrial	Industrial																
VOCs (µg/kg)																		
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<125	<100	<25	<25	<50	<25	<25	<25	<25	<25	6,620 ^C
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<125	<100	<25	<25	<50	<25	<25	<25	<25	<25	66.4 ^J
1,2,3-Trichlorobenzene	48,900	493,000	--	<25	<25	<25	<25	<125	<100	<25	<25	<50	<25	<25	<25	<25	<25	<25
1,2,4-Trichlorobenzene	89,800	219,000	408	<25	<25	<25	<25	<125	<100	<25	<25	<50	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	458	471	5,320 ^C	264	19,800 ^C	6,620 ^C	<25	<25	3,050 ^C	132	<25	<25	<25	<25	117
1,2-Dichlorobenzene	376,000	376,000	1,168	<25	<25	<25	<25	<125	<100	<25	<25	<50	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	245	311	1390 ^C	57.8 ^J	6,320 ^C	1,880 ^C	<25	<25	918	50.9 ^J	<25	<25	<25	<25	46.6 ^J
1,3-Dichlorobenzene	297,000	297,000	1,152.80	<25	<25	<25	<25	<125	<100	<25	<25	<50	<25	<25	<25	<25	<25	<25
1,4-Dichlorobenzene	3,480	17,500	144	<25	<25	<25	<25	<125	<100	<25	<25	<50	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<125	<100	<25	<25	96.9 ^{JC}	<25	<25	<25	<25	<25	<25
Chlorobenzene	392,000	761,000	--	<25	<25	<25	<25	<125	<100	<25	<25	<50	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	62.3 ^{JC}	61.5 ^{JC}	62.5 ^{JC}	<25	<125	<100	<25	<25	<50	<25	<25	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	37 ^J	45.7 ^J	115	30.6 ^J	3,150 ^C	1,090	<25	<25	935	<25	32.4 ^J	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	48.1 ^J	62.3 ^J	221	<25	1,960	543	<25	<25	445	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	87.3 ^{bC}	66.5 ^{JbC}	<25	75 ^{bC}	<125	302 ^{bC}	96.4 ^{bC}	<25	<50	118 ^{bC}	144 ^{bC}	105 ^{bC}	133 ^{bC}	121 ^{bC}	<25
Naphthalene	5,150	26,000	658.2	327	355	1,380 ^C	85.9	3,180 ^C	3,610 ^C	<25	<25	1,960 ^C	<25	<25	<25	<25	<25	29.6 ^J
n-Butylbenzene	108,000	108,000	--	253	273	1,360	50.2 ^J	4,770	906	<40.4	<40.4	642	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4
n-Propylbenzene	264,000	264,000	--	137	171	605	35.2 ^J	3,870	1,060	<25	<25	794	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	--	137	157	721	27.3 ^J	3,220	567	<25	<25	472	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	--	130	142	602	<25	1,940	373	<25	<25	343	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	--	<25	<25	71.7 ^J	<25	<125	<100	<25	<25	<50	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<25	<25	<25	<25	<125	<100	<25	<25	<50	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<125	<100	<25	<25	103 ^J	84.5	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<125	<100	<25	<25	<50	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	713 ^C	648 ^{AC}	669 ^C	82.3 ^C	<125	<100	<25	<25	<50	<25	<25	<25	125 ^C	<25	38.5 ^{JC}
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<125	<100	<25	<25	<50	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	116.8 ^J	144.2 ^J	393	<75	4,010 ^C	1,790	<75	<75	1,393	407	241	123.5 ^J	<75	<75	<75

Table 10a
CS4 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-430 (5-6) 08/17/11	GP-446 (3-4) 04/15/14	GP-446 (7.5-8.5) 04/15/14	GP-446 (14.0-15.0) 04/15/14	GP-447 (5-6) 04/16/14	GP-447 (8.5-9.5) 04/16/14	GP-448 (2-3) 04/16/14	GP-448 (8-9) 04/16/14	GP-449 (3-4) 04/15/14	GP-449 (7-9) 04/15/14	GP-450 (3-4) 04/15/14	GP-450 (5-6) 04/15/14	GP-451 (3-4) 04/15/14	GP-451 (7.5-8.5) 04/15/14
	Direct Contact Pathway		Groundwater Pathway														
	Non-Industrial	Industrial															
VOCs (µg/kg)																	
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<125	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<125	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,3-Trichlorobenzene	48,900	493,000	--	<25	<25	<25	<125	<25	<25	<25	<25	<25	<25	<25	<25	33.6 ^J	<25
1,2,4-Trichlorobenzene	89,800	219,000	408	<25	<25	<25	201 ^J	<25	<25	<25	<25	<25	<25	<25	<25	32.9 ^J	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<125	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2-Dichlorobenzene	376,000	376,000	1,168	<25	<25	<25	4,690 ^C	<25	<25	<25	<25	<25	<25	<25	<25	44.4 ^J	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<125	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,3-Dichlorobenzene	297,000	297,000	1,152.80	<25	<25	<25	20,900 ^C	<25	<25	<25	<25	<25	<25	<25	<25	35.7 ^J	<25
1,4-Dichlorobenzene	3,480	17,500	144	<25	<25	<25	39,700 ^{ABC}	<25	<25	<25	<25	<25	<25	<25	<25	44.5 ^J	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<125	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Chlorobenzene	392,000	761,000	--	<25	<25	<25	3,170	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	355 ^{JC}	<25	<25	<25	<25	<25	135 ^C	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<125	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	<125	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	101 ^{bC}	<25	<25	<125	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.2	<25	<40	<40	<200	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
n-Butylbenzene	108,000	108,000	--	<40.4	<25	<25	<125	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	<125	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	<125	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<125	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	--	<25	<25	<25	<125	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<25	<25	<25	<125	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<125	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<125	<25	<25	<25	<25	<25	39.5 ^J	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<125	<25	<25	<25	<25	<25	3,710 ^{AC}	51.9 ^{JC}	<25	<25	49.1 ^{JC}
Vinyl chloride	67	2,030	0.1	<25	<25	<25	1,060 ^{AC}	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<375	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75

Notes:

VOCs = Volatile Organic Compounds

mg/kg = Milligrams per kilogram. ug/kg = Micrograms per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

^D = Analyte was detected in the method blank.

-- = No generic RCL established.

DUP/D/FD = Field duplicate.

Generic RCLs June 2014 per WDNR PUB-RR-890.

Table 10b
CS4 Detected Volatile Organic Compounds in Soil from Monitoring Well and Piezometer Locations
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-72	PZ-72	PZ-72	PZ-401	PZ-401	PZ-401	PZ-402	PZ-402	PZ-402	MW-403	MW-404	MW-405	MW-406	MW-407
	Direct Contact Pathway		Groundwater Pathway	(2-3)	(6-7)	(21-22)	(1-2)	(4-5)	(19-20)	(1-2)	(5-6)	(21-22)	(6-7)	(6-7)	(6-7)	(4-5)	(6-7)
	Non-Industrial	Industrial		08/15/11	08/15/11	08/15/11	08/17/11	08/17/11	08/17/11	08/17/11	08/17/11	08/17/11	08/18/11	08/17/11	08/16/11	08/16/11	08/16/11
VOCs (µg/kg)																	
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<100	<100	<25	<25	<25	<25	<25	<25	<25	<100	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<100	<100	<25	<25	<25	<25	<25	<25	<25	<100	<25
1,2,3-Trichlorobenzene	48,900	493,000	--	<25	<25	<25	<100	<100	<25	<25	<25	<25	<25	<25	<25	<100	<25
1,2,4-Trichlorobenzene	89,800	219,000	408	<25	<25	<25	<100	<100	<25	<25	<25	<25	<25	<25	<25	<100	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<100	<100	<25	305	30.4 ^J	<25	<25	<25	<25	11,000 ^C	<25
1,2-Dichlorobenzene	376,000	376,000	1,168	<25	<25	<25	<100	<100	<25	<25	<25	<25	<25	<25	<25	<100	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<100	183 ^J	<25	99.8	<25	<25	<25	<25	<25	3190 ^C	<25
1,3-Dichlorobenzene	297,000	297,000	1,152.80	<25	<25	<25	<100	<100	<25	<25	<25	<25	<25	<25	<25	<100	<25
1,4-Dichlorobenzene	3,480	17,500	144	<25	<25	<25	<100	<100	<25	<25	<25	<25	<25	<25	<25	<100	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	155 ^{JC}	221 ^{JC}	<25	<25	<25	<25	<25	<25	<25	926 ^C	<25
Chlorobenzene	392,000	761,000	--	<25	87.5	<25	<100	<100	<25	<25	<25	<25	<25	<25	<25	<100	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	51.3 ^{JC}	<25	<100	<100	<25	<25	<25	<25	<25	<25	<25	<100	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	6,500 ^C	8,000 ^{AC}	<25	40.3 ^J	<25	<25	<25	<25	<25	3,020 ^C	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	1,540	1,870	<25	<25	<25	<25	<25	<25	<25	1,070	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	59.7 ^{JbC}	<25	<100	<100	32.4 ^{JbC}	49.2 ^{JbC}	31.5 ^{JbC}	37.9 ^{JbC}	<25	27 ^{JbC}	<25	<100	<25
Naphthalene	5,150	26,000	658.2	<25	59.8 ^{Jb}	<25	1,520 ^C	1,540 ^C	<25	59.9 ^J	<25	31.1 ^J	<25	<25	<25	2,370 ^C	<25
n-Butylbenzene	108,000	108,000	--	<40.4	<40.4	<40.4	542	487	<40.4	65.2 ^J	<40.4	<40.4	<40.4	<40.4	<40.4	<162	<40.4
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	3,220	3,170	<25	51.9 ^J	<25	<25	<25	<25	<25	1,830	<25
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	458	463	<25	45.9 ^J	<25	<25	<25	<25	<25	1,100	<25
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	525	503	<25	<25	<25	<25	<25	<25	<25	709	<25
tert-Butylbenzene	183,000	183,000	--	<25	<25	<25	<100	<100	<25	<25	<25	<25	<25	<25	<25	<100	<25
Tetrachloroethene	30,700	153,000	4.5	<25	<25	<25	<100	<100	<25	<25	<25	<25	<25	<25	<25	<100	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<100	<100	<25	<25	<25	<25	<25	<25	<25	471	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<100	<100	<25	<25	<25	<25	<25	<25	<25	<100	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<100	<100	<25	<25	<25	<25	<25	45.5 ^{JC}	<25	<100	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<100	<100	<25	<25	<25	<25	<25	<25	<25	<100	<25
Xylene (Total)	258,000	258,000	3,940	<75	112 ^J	<75	322 ^J	336 ^J	<75	<75	<75	<75	<75	<75	<75	11,419 ^{JC}	<75

Table 10b
CS4 Detected Volatile Organic Compounds in Soil from Monitoring Well and Piezometer Locations
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			MW-408 (1-3)	MW-408 (4-5)	PZ-409 (1-2)	PZ-409 (6-7)	PZ-409 (20-21)	PZ-409 (20-21) FD	MW-410 (2-4)	MW-410 (2-4) FD	MW-410 (8-9)	PZ-411 (3-4)	PZ-411 (7-8)	PZ-411 (19-20)	PZ-412 (3-4)	PZ-412 (8-9)	
	Direct Contact Pathway		Groundwater															
	Non-Industrial	Industrial	Pathway	08/17/11	08/17/11	08/17/11	08/17/11	08/17/11	08/17/11	04/17/14	04/17/14	04/17/14	04/17/14	04/17/14	04/17/14	04/16/14	04/16/14	
VOCs (µg/kg)																		
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	127	<25	<25	<25	130	128	<25	<25	<25	<25	<25	<25	
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
1,2,3-Trichlorobenzene	48,900	493,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
1,2,4-Trichlorobenzene	89,800	219,000	408	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	1620 ^C	<25	<25	<25	
1,2-Dichlorobenzene	376,000	376,000	1,168	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	213	<25	<25	<25	
1,3-Dichlorobenzene	297,000	297,000	1,152.80	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
1,4-Dichlorobenzene	3,480	17,500	144	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
Chlorobenzene	392,000	761,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	178 ^C	151 ^C	52.9 ^{JC}	99.7 ^C	<25	<25	<25	<25	116 ^{JC}	<25	
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	81	<25	76.6	<25	
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	300	504	<25	<25	34.5 ^J	
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	34.8 ^{JBC}	<25	<25	<25	<25	<25	<25	<25	30.8 ^{JC}	
Naphthalene	5,150	26,000	658.2	<25	<25	33.3 ^J	<25	<25	<25	<40	<40	<40	<40	273 ^J	<40	<40	<40	
n-Butylbenzene	108,000	108,000	--	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<25	<25	<25	315	783	<25	<25	<25	
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	335	850	<25	<25	32.3 ^J	
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	31 ^J	393	<25	<25	<25	
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	377	500	<25	<25	<25	
tert-Butylbenzene	183,000	183,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
Tetrachloroethene	30,700	153,000	4.5	<25	<25	<25	<25	<25	<25	180 ^C	229 ^C	454 ^C	<25	<25	<25	<25	<25	
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	93.4	<25	
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
Trichloroethene	1,260	8,810	3.6	<25	<25	38.6 ^{JC}	<25	227 ^{AC}	211 ^{AC}	1,240 ^{AC}	1,650 ^{AC}	519 ^C	<25	<25	<25	1,840 ^{AC}	<25	
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	53.8 ^{JAC}	32.1 ^{JC}	<25	<25	<25	<25	<25	452 ^{AC}	<25	<25	
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<75	<75	<75	<75	<75	<75	90.4 ^J	276.6 ^J	<75	207.4 ^J	<75	

Table 10b
CS4 Detected Volatile Organic Compounds in Soil from Monitoring Well and Piezometer Locations
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-412	PZ-412	PZ-413	PZ-413	PZ-413	PZ-413	PZ-414	PZ-414	PZ-414	415	415	415	MW-416	MW-416
	Direct Contact Pathway		Groundwater Pathway	(16-17)	(21-22)	(3-4)	(9-10)	(18-19)	(21-22)	(1-3)	(4-5)	(21.5-22.5)	(2-3)	(8-9)	(8-9)	(3-4)	(7-9)
	Non-Industrial	Industrial		04/16/14	04/16/14	04/18/14	04/18/14	04/18/14	04/18/14	04/16/14	04/16/14	04/16/14	04/17/14	04/17/14	04/17/14	04/17/14	04/17/14
VOCs (µg/kg)																	
1,1,1-Trichloroethane	640,000	640,000	140.2	<50	<25	229^C	<25	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<1,000
1,1-Dichloroethane	4,720	23,700	482.8	123^J	<25	<25	<25	<62.5	<25	<25 ^{UJ}	<25 ^{UJ}	<25 ^{UJ}	<25	<25	<25	<25	<1,000
1,2,3-Trichlorobenzene	48,900	493,000	--	<50	<25	<25	<25	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<1,000
1,2,4-Trichlorobenzene	89,800	219,000	408	<50	<25	<25	56.6^J	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<1,000
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	1,920^C	<25	<25	2,310^C	<62.5	<25	<25	<25	<25	<25	<25	<25	6,330^C	112,000^{AC}
1,2-Dichlorobenzene	376,000	376,000	1,168	<50	<25	<25	<25	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<1,000
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<50	<25	<25	404	<62.5	<25	<25	<25	<25	<25	<25	<25	8,290^C	29,300^C
1,3-Dichlorobenzene	297,000	297,000	1,152.80	<50	<25	<25	109	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<1,000
1,4-Dichlorobenzene	3,480	17,500	144	<50	<25	<25	217^C	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<1,000
Benzene	1,490	7,410	5.1	<50	<25	<25	<25	115^{JC}	<25	<25	<25	<25	<25	<25	<25	<25	<1,000
Chlorobenzene	392,000	761,000	--	<50	<25	<25	2,900	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<1,000
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	116,000^{JC}	191^{JC}	<25	<25	15,400^C	47.9^{JC}	<25	276^C	<25	<25	<25	<25	<25	<1,000
Ethylbenzene	7,470	37,000	1,570	84.1^J	<25	<25	136	<62.5	<25	<25	<25	<25	<25	<25	<25	7,900^{AC}	68,500^{ABC}
Isopropylbenzene (Cumene)	268,000	268,000	--	108^J	<25	<25	1,850	<62.5	<25	<25	<25	<25	<25	<25	<25	680	2,930^J
Methylene Chloride	60,700	1,070,000	2.6	<50	<25	<25	<25	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<1,000
Naphthalene	5,150	26,000	658.2	<80.1	<40	<40	462	<100	<40	<40	<40	<40	<40	<40	<40	8,090^{AC}	22,700^{AC}
n-Butylbenzene	108,000	108,000	--	543	<25	<25	674	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<1,000
n-Propylbenzene	264,000	264,000	--	216	<25	<25	1,290	<62.5	<25	<25	<25	<25	<25	<25	<25	3,130	13,100
p-Isopropyltoluene	162,000	162,000	--	<50	<25	<25	117	<62.5	<25	<25	<25	<25	<25	<25	<25	310	<1,000
sec-Butylbenzene	145,000	145,000	--	299	<25	<25	296	<62.5	<25	<25	<25	<25	<25	<25	<25	311	1,300^J
tert-Butylbenzene	183,000	183,000	--	<50	<25	<25	<25	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<1,000
Tetrachloroethene	30,700	153,000	4.5	<50	<25	170^C	<25	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<1,000
Toluene	818,000	818,000	1107.2	98.3^J	<25	<25	<25	<62.5	<25	<25	<25	<25	<25	<25	<25	433	11,200^C
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	921^C	<25	<25	<25	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<1,000
Trichloroethene	1,260	8,810	3.6	180,000^{ABC}	116^C	283^C	<25	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<1,000
Vinyl chloride	67	2,030	0.1	2,590^{ABC}	<25	<25	<25	2,310^{ABC}	408^{AC}	<25	626^{JAC}	<25	<25	<25	<25	<25	<1,000
Xylene (Total)	258,000	258,000	3,940	136^J	<75	<75	2,119.90^J	<187.5	<75	<75	<75	<75	<75	<75	<75	31,290^{JC}	580,100^{JABC}

Table 10b
CS4 Detected Volatile Organic Compounds in Soil from Monitoring Well and Piezometer Locations
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			MW-416	MW-417	MW-417	MW-417	PZ-418	PZ-418	PZ-418	PZ-418	MW-419	MW-419	MW-419	MW-420	MW-420	MW-420	
	Direct Contact Pathway		Groundwater	(10.5-11.5)	(3-4)	(5-6)	(7-8)	(2-3)	(6-7)	(13-14)	(21.5-22.5)	(3-4)	(9-10)	(12-13)	(3-4)	(5-7)	(12-13)	
	Non-Industrial	Industrial	Pathway	04/17/14	04/17/14	04/17/14	04/17/14	04/16/14	04/16/14	04/16/14	04/16/14	04/18/14	04/18/14	04/18/14	04/18/14	04/18/14	04/18/14	04/18/14
VOCs (µg/kg)																		
1,1,1-Trichloroethane	640,000	640,000	140.2	<1,000	<25	<50	<1,000	263 ^C	<25	<250	<25	<25	205 ^C	<62.5	222 ^C	<200	<500	
1,1-Dichloroethane	4,720	23,700	482.8	<1,000	<25	<50	<1,000	<25	<25	<250	<25 ^{UJ}	<25	<25	<62.5	<25	<200	<500	
1,2,3-Trichlorobenzene	48,900	493,000	--	<1,000	<25	<50	<1,000	<25	<25	<250	<25	<25	<25	<62.5	<25	<200	<500	
1,2,4-Trichlorobenzene	89,800	219,000	408	<1,000	<25	<50	<1,000	<25	<25	<250	<25	<25	<25	<62.5	<25	<200	<500	
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	54,500 ^C	<25	267	88,000 ^C	<25	<25	<250	<25	<25	<25	<62.5	71.4	9,470 ^C	95,000 ^{AC}	
1,2-Dichlorobenzene	376,000	376,000	1,168	<1,000	<25	<50	<1,000	<25	<25	<250	<25	<25	<25	<62.5	<25	<200	<500	
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	13,700 ^C	<25	126 ^J	25,200 ^C	<25	<25	<250	<25	<25	<25	<62.5	<25	2,710 ^C	25,200 ^C	
1,3-Dichlorobenzene	297,000	297,000	1,152.80	<1,000	<25	<50	<1,000	<25	<25	<250	<25	<25	<25	<62.5	<25	<200	<500	
1,4-Dichlorobenzene	3,480	17,500	144	<1,000	<25	<50	<1,000	<25	<25	<250	<25	<25	<25	<62.5	<25	<200	<500	
Benzene	1,490	7,410	5.1	<1,000	<25	<50	<1,000	<25	<25	<250	<25	<25	<25	<62.5	<25	<200	718 ^{JC}	
Chlorobenzene	392,000	761,000	--	<1,000	<25	<50	<1,000	<25	<25	<250	<25	<25	<25	<62.5	<25	<200	<500	
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<1,000	<25	<50	<1,000	<25	588 ^{JC}	64,100 ^{JC}	1,430 ^C	<25	847 ^C	3,550 ^C	<25	<200	<500	
Ethylbenzene	7,470	37,000	1,570	99,700 ^{ABC}	<25	449	42,100 ^{ABC}	<25	<25	<250	<25	<25	<25	<62.5	<25	1,160	38,900 ^{ABC}	
Isopropylbenzene (Cumene)	268,000	268,000	--	2,090 ^J	<25	724	15,500	<25	<25	<250	<25	<25	<25	<62.5	<25	755	5,060	
Methylene Chloride	60,700	1,070,000	2.6	<1,000	<25	<50	<1,000	<25	<25	<250	<25	<25	<25	<62.5	<25	<200	<500	
Naphthalene	5,150	26,000	658.2	13,500 ^{AC}	<40	218 ^J	26,600 ^{ABC}	<40	<40	<400	<40	<40	<40	<100	<40	1,810 ^{JC}	18,500 ^{AC}	
n-Butylbenzene	108,000	108,000	--	<1,000	<25	3,520	21,300	<25	<25	<250	<25	<25	<25	<62.5	<25	<200	8,920	
n-Propylbenzene	264,000	264,000	--	8,070	<25	1,730	25,400	<25	<25	<250	<25	<25	<25	<62.5	<25	1,370	17,500	
p-Isopropyltoluene	162,000	162,000	--	<1,000	<25	76.6 ^J	7,440	<25	<25	<250	<25	<25	<25	<62.5	<25	1,180	2,100	
sec-Butylbenzene	145,000	145,000	--	<1,000	<25	1,840	11,000	<25	<25	<250	<25	<25	<25	<62.5	<25	739	2,540	
tert-Butylbenzene	183,000	183,000	--	<1,000	<25	63.4 ^J	<1,000	<25	<25	<250	<25	<25	<25	<62.5	<25	<200	<500	
Tetrachloroethene	30,700	153,000	4.5	<1,000	<25	<50	<1,000	<25	<25	<250	<25	<25	<25	<62.5	169 ^C	<200	<500	
Toluene	818,000	818,000	1107.2	53,300 ^C	<25	71.6 ^J	<1,000	<25	<25	<250	<25	<25	<25	<62.5	<25	<200	2,020 ^C	
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<1,000	<25	<50	<1,000	<25	<25	878 ^C	40.6 ^J	<25	<25	243 ^C	<25	<200	<500	
Trichloroethene	1,260	8,810	3.6	<1,000	114 ^C	62.4 ^{JC}	<1,000	<25	<25	<250	<25	35.8 ^{JC}	6,150 ^{AC}	13,600 ^{ABC}	<25	<200	<500	
Vinyl chloride	67	2,030	0.1	<1,000	<25	<50	<1,000	<25	<25	695 ^{JAC}	77.8 ^{JAC}	<25	<25	<62.5	<25	<200	<500	
Xylene (Total)	258,000	258,000	3,940	503,000 ^{JABC}	<75	1,664 ^J	385,200 ^{JABC}	<75	<75	<750	<75	<75	<75	<187.5	<75	3,000 ^J	147,700 ^{JC}	

Notes:

VOCs = Volatile Organic Compounds Well nest samples were collected from piezometer locations.

mg/kg = Milligrams per kilogram. ug/kg = Micrograms per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

^D = Analyte was detected in the method blank

^U = Not detected, detection limit elevated based on lab QC; see data validation memo

-- = No generic RCL established.

DUP/D/FD = Field duplicate.

Generic RCLs June 2014 per WDNR PUB-RR-890.

Table 10c
CS4 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-72 (2-3)	PZ-72 (6-7)	PZ-401 (1-2)	PZ-401 (4-5)	PZ-402 (1-2)	PZ-402 (5-6)	MW-403 (6-7)	MW-404 (6-7)	MW-405 (6-7)	MW-406 (4-5)	MW-407 (6-7)	MW-408 (1-3)	
	Direct Contact Pathway		Groundwater Pathway	08/15/11	08/15/11	08/17/11	08/17/11	08/17/11	08/17/11	08/17/11	08/18/11	08/17/11	08/16/11	08/16/11	08/16/11	08/17/11
	Non-Industrial	Industrial														
PAHs (µg/kg)																
1-Methylnaphthalene	15,600	53,100	23,000	<2.7	9.1 ^J	308	173	35.6 ^J	6.8 ^J	<3.1	<2.7	<3.2	301	<2.8	<3.1	
2-Methylnaphthalene	229,000	2,200,000	20,000	<2.7	20 ^J	353	186	53.8 ^J	14.3 ^J	<3.1	<2.7	<3.2	760	<2.8	<3.1	
Acenaphthene	3,440,000	33,000,000	38,000	<2.5	5.8 ^J	<3	<2.9	20.1 ^J	5 ^J	<2.8	<2.5	<3	<5.6	<2.6	<2.9	
Acenaphthylene	18,000	360,000	700	<2.8	6 ^J	<3.4	<3.3	<16.9	<3.1	<3.2	<2.8	<3.4	<6.3	<2.9	<3.2	
Anthracene	17,200,000	100,000,000	197,727.3	<4.1	9.5 ^J	<4.9	<4.8	32.3 ^J	<4.5	<4.7	<4.1	<4.9	<9.2	<4.2	<4.7	
Benzo(a)anthracene	148	2,110	17,000	<2.5	16.1 ^J	<3	<2.9	49.9 ^J	2.9 ^J	<2.9	2.5 ^J	<3	<5.6	<2.6	<2.9	
Benzo(a)pyrene	15	211	470	<2.9	13.8 ^J	<3.5	<3.3	43.1 ^{JA}	<3.2	<3.3	4.1 ^J	<3.4	<6.5	<3	<3.3	
Benzo(b)fluoranthene	148	2,110	479.3	<3.1	17.1 ^J	<3.7	<3.5	60.5 ^J	3.8 ^J	<3.5	<3	<3.6	<6.8	<3.1	<3.5	
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	<2.3	12.1 ^J	<2.8	<2.7	38.5 ^J	<2.6	<2.6	3.7 ^J	<2.8	<5.2	<2.4	<2.7	
Benzo(k)fluoranthene	1,480	21,100	870,000	<3.3	16.7 ^J	<3.9	<3.8	48.8 ^J	<3.6	<3.7	<3.3	<3.9	<7.4	<3.4	<3.8	
Chrysene	14,800	211,000	144.6	<3.2	31.4	<3.8	<3.7	84.2 ^J	5.8 ^J	4.4 ^J	4.9 ^J	<3.8	<7.2	<3.3	<3.7	
Dibenz(a,h)anthracene	15	211	38,000	<4.8	<6.1	<5.8	<5.6	<28.8	<5.3	<5.5	<4.8	<5.7	<10.8	<4.9	<5.5	
Fluoranthene	2,290,000	22,000,000	88,877.8	<8.8	47	<10.6	<10.2	78.4 ^J	9.9 ^J	<10	<8.8	<10.5	<19.8	<9.1	<10.2	
Fluorene	2,290,000	22,000,000	14,802.7	<4.4	9.7 ^J	<5.3	<5.1	59.9 ^J	17.4 ^J	<5	<4.4	<5.2	<9.8	<4.5	<5.1	
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	<2.5	9.5 ^J	<3	<2.9	32.3 ^J	<2.8	<2.9	<2.5	<3	<5.6	<2.6	<2.9	
Naphthalene	5,150	26,000	658.2	<3.1	52.6	662 ^C	501	62 ^J	27.9	4.5 ^J	<3.1	<3.7	1,170 ^C	<3.2	4.7 ^J	
Phenanthrene	18,000	390,000	1,800	<3.9	39.5	8.9 ^J	<4.5	142	5.5 ^J	<4.4	<3.9	<4.6	<8.7	<4	<4.5	
Pyrene	1,720,000	16,500,000	54,132.2	<3.2	41.8	5.7 ^J	<3.7	104 ^J	10.7 ^J	8.8 ^J	4.3 ^J	<3.9	<7.2	<3.3	<3.7	

Table 10c
CS4 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			MW-408 (4-5)	PZ-409 (1-2)	PZ-409 (6-7)	PZ-414 (1-3)	MW-415 (2-3)	MW-416 (3-4)	MW-416 (7-9)	MW-417 (3-4)	MW-417 (5-6)	PZ-418 (2-3)	MW-419 (3-4)	MW-420 (3-4)	
	Direct Contact Pathway		Groundwater Pathway	08/17/11	08/17/11	08/17/11	04/16/14	04/17/14	04/17/14	04/17/14	04/17/14	04/17/14	04/17/14	04/16/14	04/18/14	04/18/14
	Non-Industrial	Industrial		08/17/11	08/17/11	08/17/11	04/16/14	04/17/14	04/17/14	04/17/14	04/17/14	04/17/14	04/17/14	04/16/14	04/18/14	04/18/14
PAHs (µg/kg)																
1-Methylnaphthalene	15,600	53,100	23,000	<2.9	72.9	<3.1	<8.8	<8.6	25,400^{AC}	3,580	<9	<47.4	<11.3	<10.4	<8.9	
2-Methylnaphthalene	229,000	2,200,000	20,000	<2.9	116	<3.1	<8.8	<8.6	50,000^C	7,030	<9	<47.4	<11.3	<10.4	<8.9	
Acenaphthene	3,440,000	33,000,000	38,000	<2.7	8.4 ^J	<2.9	<8.8	<8.6	<2,060	<255	<9	51.7 ^J	<11.3	<10.4	<8.9	
Acenaphthylene	18,000	360,000	700	<3	12.2 ^J	<3.2	<7.8	<7.7	<1,850	<228	<8.1	<42.4	<10.1	<9.3	<8	
Anthracene	17,200,000	100,000,000	197,727.3	<4.4	36	<4.7	<9.1	<8.9	<2,140	<264	<9.4	61 ^J	<11.7	<10.8	<9.3	
Benzo(a)anthracene	148	2,110	17,000	<2.7	107	<2.9	9.8 ^J	<6	<1,430	<177	<6.3	131	<7.8	<7.2	<6.2	
Benzo(a)pyrene	15	211	470	<3.1	117 ^A	<3.3	11.1 ^J	<6.2	<1,480	<182	<6.5	58.7 ^{JA}	<8.1	<7.4	<6.4	
Benzo(b)fluoranthene	148	2,110	479.3	<3.3	126	<3.5	11 ^J	<8.6	<2,060	<255	<9	142	<11.3	<10.4	<8.9	
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	<2.5	102	<2.7	9.3 ^J	<6.6	<1,570	<194	<6.9	63.2 ^J	<8.6	<7.9	<6.8	
Benzo(k)fluoranthene	1,480	21,100	870,000	<3.5	106	<3.8	<9.7	<9.5	<2,290	<282	<10	90.6 ^J	<12.5	<11.5	<9.9	
Chrysene	14,800	211,000	144.6	<3.4	129	<3.7	14.4 ^J	<8	<1,910	<236	<8.3	192 ^C	<10.5	<9.6	<8.3	
Dibenz(a,h)anthracene	15	211	38,000	<5.1	27 ^A	<5.5	<6.4	<6.3	<1,510	<187	<6.6	<34.8	<8.3	<7.6	<6.5	
Fluoranthene	2,290,000	22,000,000	88,877.8	<9.4	215	<10.2	16.9 ^J	<8.6	<2,060	<255	<9	442	<11.3	<10.4	<8.9	
Fluorene	2,290,000	22,000,000	14,802.7	<4.7	8.1 ^J	<5.1	<8.8	<8.6	<2,060	<255	<9	62.8 ^J	<11.3	<10.4	<8.9	
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	<2.7	77.3	<2.9	<6.7	<6.5	<1,570	<194	<6.9	50.7 ^J	<8.6	<7.9	<6.8	
Naphthalene	5,150	26,000	658.2	4 ^J	65.2	<3.6	<8.8	<8.6	18,500^{AC}	5,380^{AC}	<9	155	<11.3	<10.4	<8.9	
Phenanthrene	18,000	390,000	1,800	<4.1	130	<4.5	14 ^J	<8.6	<2,060	<255	<9	173	<11.3	<10.4	<8.9	
Pyrene	1,720,000	16,500,000	54,132.2	<3.5	188	<3.7	20.2	<8.6	<2,060	<255	<9	341	<11.3	<10.4	<8.9	

Table 10c
CS4 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-420	GP-420	GP-421	GP-421	GP-421	GP-422	GP-422	GP-423	GP-424	GP-424	GP-425	GP-425
	Direct Contact Pathway		Groundwater Pathway	(1-2)	(5-6)	(1-2)	(5-7)	(5-7) FD	(1-2)	(6-7)	(6-7)	(1-2)	(6-7)	(1-3)	(1-3) FD
	Non-Industrial	Industrial		08/16/11	08/16/11	08/16/11	08/16/11	08/16/11	08/16/11	08/16/11	08/16/11	08/17/11	08/17/11	08/17/11	08/17/11
PAHs (µg/kg)															
1-Methylnaphthalene	15,600	53,100	23,000	211	<3.1	23.1	<2.7	<2.7	6.1 ^J	<3.6	<2.9	42.5	47.6	167	560
2-Methylnaphthalene	229,000	2,200,000	20,000	310	<3.1	41.6	<2.7	<2.7	7.7 ^J	<3.6	<2.9	47.2	68.6	185	728
Acenaphthene	3,440,000	33,000,000	38,000	55.9	<2.9	8 ^J	<2.5	<2.5	<2.6	<3.3	<2.6	23.8	14 ^J	35.5 ^J	197
Acenaphthylene	18,000	360,000	700	67.3	<3.2	<2.8	<2.8	<2.8	<2.9	<3.7	<3	3.2 ^J	3.6 ^J	<16.3	19.5 ^J
Anthracene	17,200,000	100,000,000	197,727.3	132	<4.7	<4	<4.1	<4.1	<4.2	5.5 ^J	<4.4	6.5 ^J	12.6 ^J	25.7 ^J	44.7
Benzo(a)anthracene	148	2,110	17,000	296 ^A	<2.9	<2.5	8.1 ^J	15.8 ^J	6.1 ^J	<3.3	<2.7	18	26.1	24.9 ^J	19.6 ^J
Benzo(a)pyrene	15	211	470	265 ^{AB}	<3.3	<2.8	7.7 ^J	15.5 ^{JA}	6.5 ^J	<3.8	<3.1	19.3 ^A	9.9 ^J	<16.8	9.9 ^J
Benzo(b)fluoranthene	148	2,110	479.3	356 ^A	<3.5	<3	7.5 ^J	13.4 ^J	7.6 ^J	<4	<3.2	26	27.4	<17.7	15.4 ^J
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	153	<2.7	<2.3	5.8 ^J	11.2 ^J	5.7 ^J	<3.1	<2.5	21.4	13.8 ^J	<13.5	7.2 ^J
Benzo(k)fluoranthene	1,480	21,100	870,000	202	<3.8	<3.2	7.1 ^J	15.6 ^J	6.2 ^J	<4.3	<3.5	19	23.2	<19	11.5 ^J
Chrysene	14,800	211,000	144.6	351 ^C	<3.7	<3.2	9.3 ^J	16.5 ^J	8.8 ^J	<4.2	<3.4	26.3	42.9	39.9 ^J	42.6
Dibenz(a,h)anthracene	15	211	38,000	55.9 ^A	<5.6	<4.7		<4.8	<4.9	<6.3	<5.1	5.7 ^J	<5.6	<27.9	<11.3
Fluoranthene	2,290,000	22,000,000	88,877.8	578	<10.2	<8.7	15.8 ^J	29.9	9.5 ^J	<11.6	<9.4	36.9	94.8	56.6 ^J	67.7
Fluorene	2,290,000	22,000,000	14,802.7	70.5	<5.1	<4.3	<4.4	<4.4	<4.5	<5.8	<4.7	7.3 ^J	28.2	<25.5	109
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	136	<2.9	<2.5	4.9 ^J	9.8 ^J	4.3 ^J	<3.3	<2.7	16.6 ^J	12.2 ^J	<14.6	<5.9
Naphthalene	5,150	26,000	658.2	377	<3.6	60.8	<3.1	<3.1	4.4 ^J	4.8 ^J	<3.3	21.5	364	190	1010 ^C
Phenanthrene	18,000	390,000	1,800	657	<4.5	6.8 ^J	8.6 ^J	12.8 ^J	10.5 ^J	5.2 ^J	<4.1	28.5	32.1	155	224
Pyrene	1,720,000	16,500,000	54,132.2	546	<3.7	<3.2	12.4 ^J	22.8	8.5 ^J	<4.3	<3.4	33.5	77.2	55.2 ^J	64.9

Table 10c
CS4 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-425	GP-426	GP-426	GP-427	GP-427	GP-428	GP-428	GP-429	GP-429	GP-430	GP-430
	Direct Contact Pathway		Groundwater Pathway	(5-6)	(1-2)	(4-5)	(1-2)	(5-6)	(1-3)	(5-6)	(1-2)	(6-7)	(1-2)	(5-6)
	Non-Industrial	Industrial		08/17/11	08/17/11	08/17/11	08/16/11	08/16/11	08/17/11	08/17/11	08/17/11	08/17/11	08/17/11	08/17/11
PAHs (µg/kg)														
1-Methylnaphthalene	15,600	53,100	23,000	521	<27.5	234	<2.7	171	41.8	10.8 ^J	48.8	<3.1	49.5	6.1 ^J
2-Methylnaphthalene	229,000	2,200,000	20,000	595	43.1 ^J	675	<2.7	260	71.2	19.3 ^J	72	<3.1	41	5.4 ^J
Acenaphthene	3,440,000	33,000,000	38,000	142	<25.3	3.1 ^J	<2.5	<2.9	18.2 ^J	<3	9.6 ^J	<2.9	4.2 ^J	<2.8
Acenaphthylene	18,000	360,000	700	<17.3	652	24.8	<2.8	9.6 ^J	7.2 ^J	<3.4	6 ^J	<3.3	44.5	<3.2
Anthracene	17,200,000	100,000,000	197,727.3	44.5 ^J	371	19.8	<4.1	9.3 ^J	37.2	<4.9	30.4	<4.8	44	<4.7
Benzo(a)anthracene	148	2,110	17,000	24.8 ^J	1,720^A	88.7	<2.5	28.4	66.3	10.9 ^J	118	<2.9	155^A	3.1 ^J
Benzo(a)pyrene	15	211	470	<17.8	2,190^{ABC}	84.5^A	<2.9	36.2^A	39.2^A	6.7 ^J	127^A	<3.4	173^A	<3.3
Benzo(b)fluoranthene	148	2,110	479.3	<18.8	2,030^{AC}	77	<3.1	30.6	47.6	10.7 ^J	129	<3.5	137	<3.5
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	<14.4	1,350	49.7	<2.4	22.1	25.6	8.9 ^J	94.9	<2.7	93.3	<2.7
Benzo(k)fluoranthene	1,480	21,100	870,000	<20.2	1,890^A	72.4	<3.3	28.5	45.5	7.4 ^J	113	<3.8	131	<3.7
Chrysene	14,800	211,000	144.6	79.9 ^J	1,720^C	83.2	<3.2	29.9	84.4	17.9 ^J	141	<3.7	158^C	<3.7
Dibenz(a,h)anthracene	15	211	38,000	<29.6	540^{AB}	19.1^{JA}	<4.8	8.2 ^J	8.6 ^J	<5.8	27.6^A	<5.6	32.7^A	<5.5
Fluoranthene	2,290,000	22,000,000	88,877.8	71.4 ^J	1,520	131	<8.9	30.1	114	20.9 ^J	260	<10.2	177	<10.1
Fluorene	2,290,000	22,000,000	14,802.7	117	<44.8	<4.9	<4.4	<5.1	27	<5.3	8.6 ^J	<5.1	5.1 ^J	<5
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	<15.5	1,260^A	45.5	<2.5	19.7 ^J	19.9 ^J	5.9 ^J	77.4	<2.9	79.3	<2.9
Naphthalene	5,150	26,000	658.2	681^C	65.9 ^J	829^C	<3.1	470	63.8	18.4 ^J	26.2	<3.6	34.6	4.2 ^J
Phenanthrene	18,000	390,000	1,800	360	209	20.1	<3.9	8 ^J	177	22.7	147	<4.5	158	<4.4
Pyrene	1,720,000	16,500,000	54,132.2	70.7 ^J	1,540	120	<3.3	32.5	120	17.9 ^J	213	<3.8	219	4.2 ^J

Table 10c
CS4 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-SL-62	GP-SL-63	GP-SL-64	GP-SL-65	GP-SL-66	GP-SL-66	GP-SL-67
	Direct Contact Pathway		Groundwater Pathway	(1-2)	(1-2)	(1-2)	(1-2)	(2-3)	(2-3) - D	(2-3)
	Non-Industrial	Industrial		05/26/11	05/26/11	05/26/11	05/26/11	05/26/11	5/26/2011	05/26/11
PAHs (µg/kg)										
1-Methylnaphthalene	15,600	53,100	23,000	<3	20.2	357	25.1	362	424	<62.3
2-Methylnaphthalene	229,000	2,200,000	20,000	<3	26.1	632	21.3	846	969	<62.3
Acenaphthene	3,440,000	33,000,000	38,000	<2.8	16.5	134	37.2	<10.1	<11.1	93.5
Acenaphthylene	18,000	360,000	700	<3.2	69.6	47.4	17.4	11.7	<12.6	76
Anthracene	17,200,000	100,000,000	197,727.3	<4.6	61.2	111	93.1	<16.7	<18.4	1620
Benzo(a)anthracene	148	2,110	17,000	3.8	213 ^A	154 ^A	<13.6	17.2	<11.2	3500 ^A
Benzo(a)pyrene	15	211	470	3.6	231 ^A	52.2 ^A	<15.7	14.5 ^A	<12.9	3420 ^{AB}
Benzo(b)fluoranthene	148	2,110	479.3	<3.4	197 ^A	78.6	17.2	13.1	<13.7	3070 ^A
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	<2.6	158 ^b	46.2 ^b	14.3 ^b	<9.5	<10.4	2060 ^{Ab}
Benzo(k)fluoranthene	1,480	21,100	870,000	3.9	222	82.4	18.5	13.9	<14.7	3020 ^A
Chrysene	14,800	211,000	144.6	4.5	230	196	22.7	21.2	<14.3	3770
Dibenz(a,h)anthracene	15	211	38,000	<5.4	63.2 ^A	<44.1	<26.1	<19.5	<21.5	621 ^{AB}
Fluoranthene	2,290,000	22,000,000	88,877.8	<9.9	249	425	<48	37.2	<39.5	9370
Fluorene	2,290,000	22,000,000	14,802.7	<4.9	40.6	176	272	<17.9	<19.7	242
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	<2.8	138 ^A	36.8	<13.6	<10.2	<11.2	1800 ^A
Naphthalene	5,150	26,000	658.2	<3.5	27.4	1040 ^C	23.9	1240 ^C	1180 ^C	126
Phenanthrene	18,000	390,000	1,800	<4.3	108	661	346	36.4	<17.4	3680 ^C
Pyrene	1,720,000	16,500,000	54,132.2	5.8	283	314	31.5	31	20.9	8350

Notes:

PAHs = Polycyclic Aromatic Hydrocarbons

mg/kg = Milligrams per kilogram. µg/kg = Micrograms per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

DUP/D/FD = Field duplicate.

Generic RCLs June 2014 per WDNR PUB-RR-890.

**Table 10d
CS4 Metals in Soil
Kenosha Engine Plant**

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-72 (2-3)	PZ-72 (6-7)	PZ-401 (1-2)	PZ-401 (4-5)	PZ-402 (1-2)	PZ-402 (5-6)	MW-403 (6-7)	MW-404 (6-7)	MW-405 (6-7)	MW-406 (4-5)	MW-407 (6-7)	MW-408 (1-3)	MW-408 (4-5)	
	Direct Contact Pathway		Groundwater Pathway	08/15/11	08/15/11	08/17/11	08/17/11	08/17/11	08/17/11	08/17/11	08/18/11	08/17/11	08/16/11	08/16/11	08/16/11	08/17/11	08/17/11
	Non-Industrial	Industrial															
Metals (mg/kg)																	
Lead	400	800	27	5.3	149 ^C	10.7	8.6	117 ^C	8.4	12.4	2.5	8.1	8.7	6.3	6.8	6.7	

Parameters	Generic RCLs			PZ-409 (1-2)	PZ-409 (6-7)	GP-417 (3-4)	GP-417 (5-6)	GP-420 (1-2)	GP-420 (5-6)	GP-420 (5-7)	GP-421 (1-2)	GP-421 (5-7)	GP-421 (5-7) FD	GP-422 (1-2)	GP-422 (6-7)	GP-423 (6-7)	
	Direct Contact Pathway		Groundwater Pathway	08/17/11	08/17/11	04/17/14	04/17/14	08/16/11	08/16/11	04/18/14	08/16/11	08/16/11	08/16/11	08/16/11	08/16/11	08/16/11	08/16/11
	Non-Industrial	Industrial															
Metals (mg/kg)																	
Lead	400	800	27	232 ^C	10.6	9.7	32 ^C	1530 ^{ABC}	8.4	9.7	1	2.4	1.8	8.2	11.7	4.5	

Parameters	Generic RCLs			GP-424 (1-2)	GP-424 (6-7)	GP-425 (1-3)	GP-425 (1-3) FD	GP-425 (5-6)	GP-426 (1-2)	GP-426 (4-5)	GP-427 (1-2)	GP-427 (5-6)	GP-429 (1-2)	GP-429 (6-7)	GP-430 (1-2)	GP-430 (5-6)	
	Direct Contact Pathway		Groundwater Pathway	08/17/11	08/17/11	08/17/11	08/17/11	08/17/11	08/17/11	08/17/11	08/17/11	08/16/11	08/16/11	08/17/11	08/17/11	08/17/11	08/17/11
	Non-Industrial	Industrial															
Metals (mg/kg)																	
Lead	400	800	27	202 ^C	9.2	22.7	53.3 ^C	12.4	58.6 ^C	8.9	2.8	8.9	110 ^C	10.4	17.3	12.4	

Parameters	Generic RCLs			GP-428 (1-3)	GP-428 (5-6)	GP-SL-62 (1-2)	GP-SL-63 (1-2)	GP-SL-64 (1-2)	GP-SL-65 (1-2)	GP-SL-66 (2-3)	GP-SL-66 (2-3) - D	GP-SL-67 (2-3)	
	Direct Contact Pathway		Groundwater Pathway	08/17/11	08/17/11	05/26/11	05/26/11	05/26/11	05/26/11	05/26/11	05/26/11	5/26/2011	05/26/11
	Non-Industrial	Industrial											
Metals (mg/kg)													
Arsenic	0.613	2.39	0.58	17.7 ^{AB}	NT	15.8 ^{AB}	13.7 ^{AB}	6.9 ^{AB}	5.4 ^{AB}	17.4 ^{AB}	8 ^{AB}	8.1 ^{AB}	
Barium	15,300	100,000	164.8	126	NT	242	79.1	94.9	61.8	134	184	90.1	
Cadmium	70	799	0.752	2 ^{JC}	NT	0.27	0.54	0.76	1.6 ^C	0.84	0.43	1.1	
Chromium	100,000	100,000	360	115	NT	16.4	13.3	23.1	19.1	30	26.9	21	
Copper	3,130	40,900	91.6	155 ^C	NT	18.4	100	39.7	31.6	35.4	27.9	46.7	
Lead	400	800	27	256 ^C	148 ^C	8.4	53.3 ^A	191 ^A	54.7 ^A	24.6	24.8	179 ^A	
Mercury	3.13	3.13	0.42	0.078	0.077	0.013	0.069	0.043	0.25	0.077	0.1	0.038	
Nickel	1,550	19,800	13.1	497 ^C	NT	19.7	16.7	33.3	21.9	33.7	25.2	22.2	
Selenium	391	5,110	0.52	0.86 ^{JD}	NT	0.22	0.51	1.5	0.68	<1.7	0.48	0.7	
Zinc	23,500	100,000	--	315	NT	<0.049	0.076	0.2	0.12	<0.47	<0.052	0.065	

Notes:

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

-- = No generic RCL established.

DUP/D/FD = Field duplicate.

NT = Not Tested

Generic RCLs June 2014 per WDNR PUB-RR-890.

Only GP-428 was analyzed for the RCRA metals listed

**Table 10e
CS4 Polychlorinated Biphenyls in Soil
Kenosha Engine Plant**

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-72 (2-3)	PZ-72 (6-7)	PZ-401 (1-2)	PZ-401 (4-5)	PZ-402 (1-2)	PZ-402 (5-6)	MW-405 (6-7)	MW-406 (4-5)	PZ-409 (1-2)	PZ-409 (6-7)	MW-410 (2-4)	MW-410 (2-4) FD	
	Direct Contact Pathway		Groundwater Pathway	08/15/11	08/15/11	08/17/11	08/17/11	08/17/11	08/17/11	08/17/11	08/16/11	08/16/11	08/17/11	08/17/11	04/17/14	04/17/14
	Non-Industrial	Industrial														
PCBs (µg/kg)																
Aroclor 1016	3930	21200	9.4	<25	<95.7	<30	<29	<30	<27.4	<29.9	<28.1	<26.4	<28.9	<26.6	<26.9	<26.9
Aroclor 1221	159	589	9.4	<25	<95.7	<30	<29	<30	<27.4	<29.9	<28.1	<26.4	<28.9	<26.6	<26.9	<26.9
Aroclor 1232	159	589	9.4	<25	<95.7	<30	<29	<30	<27.4	<29.9	<28.1	<26.4	<28.9	<26.6	<26.9	<26.9
Aroclor 1242	221	744	9.4	<25	<95.7	<30	<29	<30	<27.4	<29.9	<28.1	<26.4	<28.9	<26.6	<26.9	<26.9
Aroclor 1248	221	744	9.4	<25	<95.7	<30	<29	<30	<27.4	<29.9	<28.1	<26.4	<28.9	<26.6	<26.9	<26.9
Aroclor 1254	221	744	9.4	<25	<95.7	<30	<29	<30	<27.4	<29.9	<28.1	<26.4	<28.9	<26.6	<26.9	<26.9
Aroclor 1260	221	744	9.4	<25	2,090 ^{ABC}	<30	<29	<30	<27.4	<29.9	<28.1	<26.4	<28.9	<26.6	<26.9	<26.9
PCB, Total	--	--	--	<25	2,090	<30	<29	<30	<27.4	<29.9	<28.1	<26.4	<28.9	<26.6	<26.9	<26.9

Parameters	Generic RCLs			PZ-413 (9-10)	MW-417 (3-4)	MW-417 (5-6)	GP-420 (1-2)	GP-420 (5-6)	GP-421 (1-2)	GP-421 (5-7)	GP-421 (5-7) FD	GP-422 (1-2)	GP-422 (6-7)	GP-423 (6-7)	GP-424 (1-2)	
	Direct Contact Pathway		Groundwater Pathway	04/18/14	04/17/14	04/17/14	08/16/11	08/16/11	08/16/11	08/16/11	08/16/11	08/16/11	08/16/11	08/16/11	08/16/11	08/17/11
	Non-Industrial	Industrial														
PCBs (µg/kg)																
Aroclor 1016	3930	21200	9.4	<1470	<27.1	<28.4	<27.2	<28.9	<24.7	<25	<24.8	<25.8	<33	<26.6	<24.9	<24.9
Aroclor 1221	159	589	9.4	<1470	<27.1	<28.4	<27.2	<28.9	<24.7	<25	<24.8	<25.8	<33	<26.6	<24.9	<24.9
Aroclor 1232	159	589	9.4	<1470	<27.1	<28.4	<27.2	<28.9	<24.7	<25	<24.8	<25.8	<33	<26.6	<24.9	<24.9
Aroclor 1242	221	744	9.4	<1470	<27.1	<28.4	<27.2	<28.9	<24.7	<25	<24.8	<25.8	<33	<26.6	<24.9	<24.9
Aroclor 1248	221	744	9.4	<1470	<27.1	<28.4	<27.2	<28.9	<24.7	<25	<24.8	<25.8	<33	<26.6	<24.9	<24.9
Aroclor 1254	221	744	9.4	<1470	<27.1	48.3 ^{JC}	<27.2	<28.9	<24.7	<25	<24.8	<25.8	<33	<26.6	43.5 ^{JC}	<24.9
Aroclor 1260	221	744	9.4	27,100 ^{ABC}	<27.1	87.2 ^C	142 ^C	<28.9	<24.7	<25	<24.8	<25.8	<33	<26.6	29.1 ^{JC}	<24.9
PCB, Total	--	--	--	27,100 ^{ABC}	<27.1	135	142	<28.9	<24.7	<25	<24.8	<25.8	<33	<26.6	72.6 ^J	<24.9

Notes:

PCBs = Polychlorinated Biphenyls

mg/kg = Milligrams per kilogram. ug/kg = Micrograms per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

-- = No generic RCL established.

DUP/D/FD = Field duplicate.

Generic RCLs June 2014 per WDNR PUB-RR-890.

**Table 10e
CS4 Polychlorinated Biphenyls in Soil
Kenosha Engine Plant**

Sample locations are presented numerically

Parameters	Generic RCLs			GP-424 (6-7) 08/17/11	GP-426 (4-5) 08/17/11	GP-428 (1-3) 08/17/11	GP-428 (5-6) 08/17/11	GP-429 (1-2) 08/17/11	GP-429 (6-7) 08/17/11	GP-430 (1-2) 08/17/11	GP-430 (5-6) 08/17/11
	Direct Contact Pathway		Groundwater Pathway								
	Non-Industrial	Industrial									
PCBs (µg/kg)											
Aroclor 1016	3930	21200	9.4	<2910	<27.8	<28.7	<30.1	<26.7	<29.1	<28	<28.6
Aroclor 1221	159	589	9.4	<2910	<27.8	<28.7	<30.1	<26.7	<29.1	<28	<28.6
Aroclor 1232	159	589	9.4	<2910	<27.8	<28.7	<30.1	<26.7	<29.1	<28	<28.6
Aroclor 1242	221	744	9.4	<2910	<27.8	<28.7	<30.1	<26.7	<29.1	<28	<28.6
Aroclor 1248	221	744	9.4	<2910	<27.8	<28.7	76.2 ^{JC}	<26.7	<29.1	<28	<28.6
Aroclor 1254	221	744	9.4	<2910	<27.8	<28.7	57.6 ^{JC}	<26.7	<29.1	<28	<28.6
Aroclor 1260	221	744	9.4	16,600 ^{ABC}	<27.8	<28.7	<30.1	<26.7	<29.1	<28	<28.6
PCB, Total	--	--	--	16,600	<27.8	<28.7	134	<26.7	<29.1	<28	<28.6

Parameters	Generic RCLs			GP-446 (7.5-8.5) 04/15/14	GP-447 (8.5-9.5) 04/16/14	GP-448 (8-9) 04/16/14	GP-449 (7-9) 04/15/14	GP-450 (5-6) 04/15/14	GP-451 (7.5-8.5) 04/15/14
	Direct Contact Pathway		Groundwater Pathway						
	Non-Industrial	Industrial							
PCBs (µg/kg)									
Aroclor 1016	3930	21200	9.4	<27	<28.4	<30.4	<32.4	<144	<28
Aroclor 1221	159	589	9.4	<27	<28.4	<30.4	<32.4	<144	<28
Aroclor 1232	159	589	9.4	<27	<28.4	<30.4	<32.4	<144	<28
Aroclor 1242	221	744	9.4	<27	<28.4	<30.4	<32.4	<144	<28
Aroclor 1248	221	744	9.4	<27	<28.4	<30.4	<32.4	<144	<28
Aroclor 1254	221	744	9.4	<27	<28.4	<30.4	<32.4	<144	<28
Aroclor 1260	221	744	9.4	233 ^{AC}	<28.4	<30.4	<32.4	<144	32.7 ^{JC}
PCB, Total	--	--	--	233	<28.4	<30.4	<32.4	<144	32.7 ^J

Notes:

PCBs = Polychlorinated Biphenyls

mg/kg = Milligrams per kilogram. µg/kg = Micrograms per kilogram

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Co

^B = Parameter exceeds Generic RCL for Industrial Direct Contact

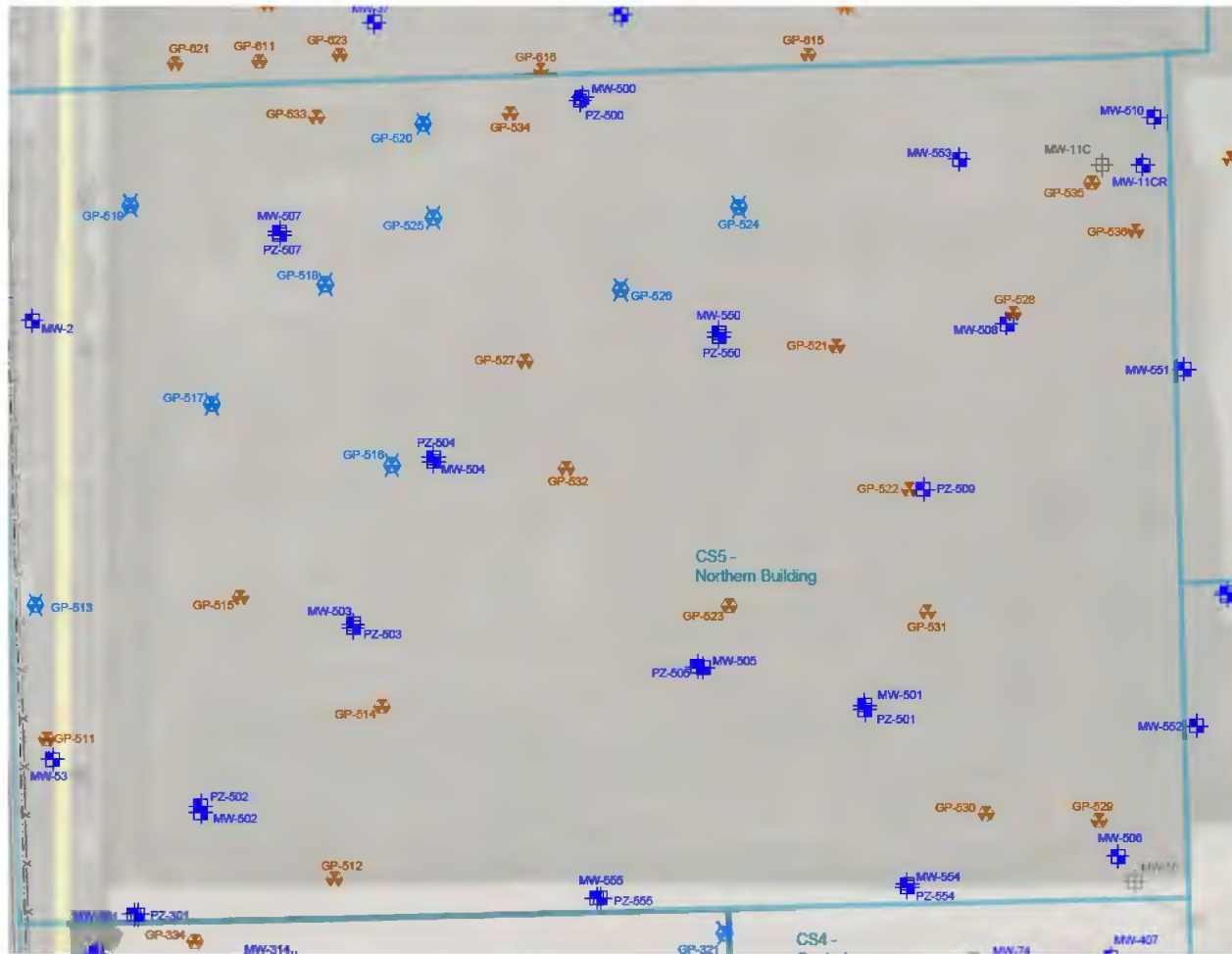
^C = Parameter exceeds Generic RCL for Groundwater Pathway.








^J = Estimated concentration between the Method Detection Limit

-- = No generic RCL established.

D

Generic RCLs June 2014 per WDNR PUB-RR-890.



-  EXISTING WATER TABLE MONITORING WELL (MW) OR PIEZOMETER (PZ)
-  ABANDONED MONITORING WELL (MW) OR PIEZOMETER (PZ)
-  SOIL PROBE
-  SOIL PROBE - REFUSAL
-  SOIL PROBE / TEMPORARY MONITORING WELLS
-  PHASE II INVESTIGATION
-  INTERIM INVESTIGATION

**CS5 SOIL SAMPLE LOCATIONS
FORMER KENOSHA ENGINE PLANT
KENOSHA, WISCONSIN**

Drawn: Ila 1-23-2024

Checked: Ila 1-23-2024

Approved: Ila 1-23-2024

PROJECT NUMBER **60677460**

FIGURE NUMBER **CS5**

Table 11a
CS5 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-511	GP-511	GP-512	GP-512	GP-513	GP-513	GP-514	GP-514	GP-515	GP-515	GP-516	GP-516
	Direct Contact Pathway		Groundwater Pathway	(2-3)	(6-7)	(2-3)	(6-7)	(3-4)	(6-7)	(2-4)	(6-7)	(3-4)	(6-7)	(3-4)	(7-8)
	Non-Industrial	Industrial		12/21/11	12/21/11	12/21/11	12/21/11	12/21/11	12/21/11	12/21/11	12/21/11	12/21/11	12/21/11	12/21/11	12/21/11
VOCs (µg/kg)															
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	244^C	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	39.4^J	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	88.3	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	28.8^J	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	49.2^{JC}	<25	<25	<25	<25	<25	<25	104^C	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<25	<25	59.2^J	<25	<25	<25	<25	<25	<25	<25	65.8^J	<25
n-Butylbenzene	108,000	108,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<25	<25	221^C	<25	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	27.8^J	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	282^C	217^C	<25	141^C	32.2^{JC}	<25	234^C	125^C	1,910^{AC}	108^C
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	154^J	<77.4

Table 11a
CS5 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-516 (25-26) 12/21/11	GP-517 (3-4) 12/21/11	GP-517 (3-4) FD 12/21/11	GP-517 (6-7) 12/21/11	GP-518 (3-4) 12/20/11	GP-518 (6-7) 12/20/11	GP-519 (3-4) 12/20/11	GP-519 (6-7) 12/20/11	GP-520 (2-3) 12/22/11	GP-520 (5-6) 12/22/11	GP-520 (19-20) 12/22/11	GP-521 (3-4) 12/20/11
	Direct Contact Pathway		Groundwater Pathway												
	Non-Industrial	Industrial													
VOCs (µg/kg)															
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	209^C	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	304^C	<25	<25	<25	<25	<25	<25	<25	<25	<25	32.5^J	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	<25	<25	<25	<25	316	<25	<25	<25
n-Butylbenzene	108,000	108,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<25	<25	<25	<25	<25	<25	<25	<25	38.2^{JC}	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	35.9^J	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	<25	<25	<25	<25	351^C	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	135^{AC}	<25
Xylene (Total)	258,000	258,000	3,940	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4

Table 11a
CS5 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-521 (8-9) 12/20/11	GP-522 (1-2) 12/20/11	GP-522 (19-20) 12/20/11	GP-523 (3-4) 12/20/11	GP-523 (8-9) 12/20/11	GP-524 (3-4) 12/20/11	GP-524 (6-7) 12/20/11	GP-525 (1-2) 12/20/11	GP-525 (6-7) 12/20/11	GP-526 (3-4) 12/21/11	GP-526 (6-7) 12/21/11	GP-527 (3-4) 12/21/11	
	Direct Contact Pathway		Groundwater Pathway													
	Non-Industrial	Industrial														
VOCs (µg/kg)																
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	119^c	<25	30.5^j	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
n-Butylbenzene	108,000	108,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	41.1^{jc}	<25	<25	<25	<25	<25	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4

Table 11a
CS5 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-528 (3-4) 12/20/11	GP-528 (7-8) 12/20/11	GP-529 (2-3) 12/20/11	GP-529 (9-10) 12/20/11	GP-529 (9-10) FD 12/20/11	GP-530 (3-4) 03/27/14	GP-530 (8-9) 03/27/14	GP-531 (3-4) 03/31/14	GP-531 (9-10) 03/31/14	GP-531 (13-14) 03/31/14	GP-532 (3-4) 03/31/14	GP-532 (5-6) 03/31/14
	Direct Contact Pathway		Groundwater Pathway												
	Non-Industrial	Industrial													
VOCs (µg/kg)															
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	183	<100
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	120	<25	<25	<25	<100
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	34.8 ^J	<25	<25	<25	<100
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	67.3 ^{JC}	<25	<25	34.2 ^J	<25	<25	<25	608 ^C	16,500 ^C	<25	<100
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	<25	<25	<25	<25	30.1 ^J	<25	<25	<25	1,090
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	<25	<40	<40	73.7 ^J	<40	<40	<40	3,370 ^C
n-Butylbenzene	108,000	108,000	--	<25	<25	<25	<25	<25	<25	<25	34.8 ^J	<25	<25	<25	1,150
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	1,990
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	<25	<25	<25	<25	29.6 ^J	<25	<25	<25	380
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	632
Tetrachloroethene	30,700	153,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	56.5 ^J	328 ^C	<25	<100
Trichloroethene	1,260	8,810	3.6	<25	887 ^C	<25	738 ^C	872 ^C	<25	45.7 ^{JC}	<25	454 ^C	<25	<25	<100
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	393 ^{AC}	<25	<100
Xylene (Total)	258,000	258,000	3,940	<77.4	<77.4	<77.4	<77.4	<77.4	<75	<75	103 ^J	<75	<75	<75	<300

Table 11a
CS5 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-533 (3-4) 03/31/14	GP-533 (6-7) 03/31/14	GP-533 (22-23) 03/31/14	GP-534 (5-6) 03/31/14	GP-534 (8-9) 03/31/14	GP-534 (22-23) 03/31/14	GP-535 (3-4) 03/31/14	GP-535 (8.5-9.5) 03/31/14	GP-536 (3-4) 03/31/14	GP-536 (8-9) 03/31/14
	Direct Contact Pathway		Groundwater Pathway										
	Non-Industrial	Industrial											
VOCs (µg/kg)													
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	132	117	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	66	41.9 ^J	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	292	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	95.6	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<25	46^{JC}	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<40	<40	<40	<40	<40	<40	<40	199 ^J	<40	<40
n-Butylbenzene	108,000	108,000	--	<25	<25	<25	<25	<25	<25	<25	113	<25	<25
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	<25	<25	<25	<25	43.8 ^J	<25	<25
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	<25	<25	<25	<25	59.9 ^J	<25	<25
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<25	<25	<25	<25	35.7 ^J	<25	<25
Tetrachloroethene	30,700	153,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	116^C	<25	<25	53.8^{JC}	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<75	<75	<75	<75	106 ^J	<75	<75

Notes:

VOCs = Volatile Organic Compounds

mg/kg = Milligrams per kilogram. ug/kg = Micrograms per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

-- = No generic RCL established. DUP/D/FD = Field duplicate.

Generic RCLs June 2014 per WDNR PUB-RR-890.

Table 11b
CS5 Detected Volatile Organic Compounds in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			MW-101 (4-5)	PZ-500 (3-4)	PZ-500 (5-6)	PZ-500 (17-18)	PZ-501 (3-4)	PZ-501 (8-9)	PZ-501 (12-13)	PZ-501 (22-23)	PZ-502 (2-3)	PZ-502 (7-8)	PZ-502 (22-23)	PZ-503 (3-4)	PZ-503 (3-4) FD	
	Direct Contact Pathway		Groundwater Pathway	12/02/10	01/03/12	01/03/12	01/03/12	12/21/11	12/21/11	12/21/11	12/21/11	12/21/11	03/25/14	03/25/14	03/25/14	03/25/14	03/25/14
	Non-Industrial	Industrial															
VOCs (µg/kg)																	
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25	<25	<100	<100	
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25	<25	<100	<100	
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25	<25	<100	<100	
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25	<25	<100	<100	
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25	<25	<100	<100	
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	124^C	1,310^C	12,000^C	455^C	<25	<25	<25	<100	<100	
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25	<25	<100	<100	
n-Butylbenzene	108,000	108,000	----	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25	<25	<100	<100	
n-Propylbenzene	264,000	264,000	----	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25	<25	<100	<100	
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	50.5^J	<25	<100	<25	<40	<40	<40	829^{JC}	<160	
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25	<25	<100	<100	
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25	<25	<100	<100	
Tetrachloroethene	30,700	153,000	5	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25	<25	<100	<100	
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25	<25	<100	<100	
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	182^C	662^C	<25	<25	<25	<25	<100	<100	
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	76^C	<25	<100	<25	44^{JC}	140^C	<25	10,300^{ABC}	11,400^{ABC}	
Vinyl chloride	67	2,030	0.1	<25	<25	<25	45.4^{JC}	<25	<25	<100	114^{AC}	<25	<25	<25	<100	<100	
Xylene (Total)	258,000	258,000	3,940	<75.0	<77.4	<77.4	<77.4	<77.4	<77.4	<310	<77.4	<75	<75	<75	<300	<300	

Table 11b
CS5 Detected Volatile Organic Compounds in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-503 (12-13)	PZ-503 (18-19)	PZ-504 (3-4)	PZ-504 (3-4) FD	PZ-504 (8-9)	PZ-504 (21-22)	PZ-505 (3.5-4)	PZ-505 (13-14)	PZ-505 (21-22)	MW-506 (3.5-4)	MW-506 (8-9)	PZ-507 (3-4)	PZ-507 (7-8)	
	Direct Contact Pathway		Groundwater Pathway	03/25/14	03/25/14	03/26/14	03/26/14	03/26/14	03/26/14	03/26/14	03/26/14	03/26/14	03/26/14	03/27/14	03/27/14	05/13/14	05/13/14
	Non-Industrial	Industrial															
VOCs (µg/kg)																	
1,1,1-Trichloroethane	640,000	640,000	140.2	<50	<25	<25	<25	<25	<25	<25	<25	<25	57.7 ^J	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<47.6	<47.6	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	624 ^C	<25	<25	<25	<25	<25	<25	430 ^C	75 ^C	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
n-Butylbenzene	108,000	108,000	----	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
n-Propylbenzene	264,000	264,000	----	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<80.1	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
p-Isopropyltoluene	162,000	162,000	----	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	338 ^C	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	9,220 ^{ABC}	<25	<25 ^{UU}	445 ^{JC}	1,110 ^C	<25	<25	<25	180 ^C	64.9 ^{JC}	<25	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<50	<25	<25	<25	<25	<25	<25	<25	40.1 ^{JC}	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<150	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75

Table 11b
CS5 Detected Volatile Organic Compounds in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-507 (17-18)	MW-508 (3-4)	MW-508 (8-9)	PZ-509 (3-4)	PZ-509 (8-9)	PZ-509 (19-20)	MW-510 (3-4)	MW-510 (9-10)	PZ-550 (3-4)	PZ-550 (5-6)	PZ-550 (20-21)	MW-551 (3-4)	MW-551 (8-9)	
	Direct Contact Pathway		Groundwater														
	Non-Industrial	Industrial	Pathway	05/13/14	03/28/14	03/28/14	03/28/14	03/28/14	03/28/14	03/28/14	03/31/14	03/31/14	5/14/2014	5/14/2014	5/14/2014	03/31/14	03/31/14
VOCs (µg/kg)																	
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	159^c	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<47.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	88.6^c	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	152^c	292^c	<25	<25	4,280^c	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
n-Butylbenzene	108,000	108,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
n-Propylbenzene	264,000	264,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	1,380^c	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	949^c	535^c	<25	51.3^{jc}	85^c	<25	<25	<25	<25	<25	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	367^{ac}	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75

Table 11b
CS5 Detected Volatile Organic Compounds in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			MW-552 (3-4)	MW-552 (3-4) FD	MW-552 (8-9)	MW-553 (3-4)	MW-553 (8.5-9.5)	PZ-554 (3-4)	PZ-554 (8-9)	PZ-554 (24-25)	PZ-555 (3-4')	PZ-555 (8-9')	PZ-555 (19-20')
	Direct Contact Pathway		Groundwater Pathway	03/27/14	03/27/14	03/27/14	03/28/14	03/28/14	03/27/14	03/27/14	03/27/14	03/21/14	03/21/14	03/21/14
	Non-Industrial	Industrial												
VOCs (µg/kg)														
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<1,250	<25	<25	1,410^C	37.4 ^J	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<1,250	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<1,250	<25	<25	38^J	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<1,250	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<1250	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	1,600^{JC}	<25	<25	50.9^{JC}	<25	1,100^C
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	<25	<25	<1,250	<25	<25	<25	<25	<25
n-Butylbenzene	108,000	108,000	----	<25	<25	<25	<25	<25	<1,250	<25	<25	<25	<25	<25
n-Propylbenzene	264,000	264,000	----	<25	<25	<25	<25	<25	<1,250	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<40	<40	<40	<40	<40	<2,000	<40	<40	58.9^J	<40	<40
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	<25	<25	<1,250	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	<25	<25	<1,250	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<25	<25	<25	<25	<25	<1,250	<25	<25	108^C	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<1,250	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<1,250	<25	<25	53.1 ^J	<25	221^C
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	<25	231,000^{ABC}	2,270^{AC}	<25	6,120^{AC}	4,130^{AC}	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<1,250	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<75	<75	<3750	<75	<75	<75	<75	<75

Notes:

VOCs = Volatile Organic Compounds

mg/kg = Milligrams per kilogram. µg/kg = Micrograms per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

^U = Not detected, detection limit elevated based on lab QC; see data validation memo.

-- = No generic RCL established.

DUP/D/FD = Field duplicate.

Generic RCLs June 2014 per WDNR PUB-RR-890.

Table 11c
CS5 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			MW-101	PZ-500	PZ-500	PZ-501	PZ-501	PZ-502	PZ-503	PZ-503	PZ-504	PZ-505	MW-506	MW-508
	Direct Contact Pathway		Groundwater Pathway	4-5'	(3-4)	(5-6)	(3-4)	(8-9)	(2-3)	(3-4)	(3-4) FD	(3-4)	(3.5-4)	(3.5-4)	(3-4)
	Non-Industrial	Industrial		12/02/10	01/03/12	01/03/12	12/21/11	12/21/11	03/25/14	03/25/14	03/25/14	03/26/14	03/26/14	03/27/14	03/28/14
1-Methylnaphthalene	15,600	53,100	23,000	<3.0	27.3	<3.1	114	<2.7	<9.1	15.3 ^J	13.6 ^J	<9.9	<8.9	223 ^J	<8.9
2-Methylnaphthalene	229,000	2,200,000	20,000	<3.0	32.5	<3.1	160	<2.7	<9.1	15.3 ^J	13.2 ^J	<9.9	<8.9	266 ^J	<8.9
Acenaphthene	3,440,000	33,000,000	38,000	<2.7	<2.6	<2.8	362	<2.5	<9.1	<8.8	<8.9	<9.9	<8.9	15.4 ^J	<8.9
Acenaphthylene	18,000	360,000	700	<3.1	<2.9	<3.2	41.9	<2.9	<8.1	<7.9	<8	<8.8	<7.9	13 ^J	<8
Anthracene	17,200,000	100,000,000	197,727.3	<4.5	<4.2	<4.7	252	<4.2	<9.4	<9.1	<9.2	<10.2 ^U	<9.2 ^U	34 ^J	13.5 ^J
Benzo(a)anthracene	148	2,110	17,000	7.2 ^J	<2.6	<2.8	158 ^A	<2.5	<6.3	<6.1	<6.2	8 ^J	<6.1	58.8 ^J	11.6 ^J
Benzo(a)pyrene	15	211	470	4.8 ^J	<3	<3.3	152 ^A	<2.9	<6.5	<6.3	<6.4	7.2 ^J	<6.3	46.2 ^J	13.2 ^J
Benzo(b)fluoranthene	148	2,110	479.3	17 ^{Jb}	<3.1	<3.5	199 ^A	<3.1	<9.1	<8.8	<8.9	<9.9	<8.9	38 ^J	15.4 ^J
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	3.5 ^J	<2.4	<2.6	123	<2.4	<6.9	<6.7	<6.8	<7.5	<6.7	24.8 ^J	11.6 ^J
Benzo(k)fluoranthene	377	21,100	870,000	5.4 ^J	<3.4	<3.7	197	<3.3	<10	<9.7	<9.8	<10.9	<9.8	45.7 ^J	14.9 ^J
Chrysene	14,800	211,000	144.6	10 ^J	5.9 ^J	<3.6	246 ^C	3.4 ^J	<8.4	<8.1	10.6 ^J	11.5 ^J	<8.2	75.1 ^J	25.8
Dibenz(a,h)anthracene	15	211	38,000	<5.3	<4.9	<5.4	46.2 ^A	<4.9	<6.6	<6.5	<6.5	<7.2	<6.5	10 ^J	<6.5
Fluoranthene	2,290,000	22,000,000	88,877.8	13.9 ^J	<9.1	<10	505	<9	<9.1	<8.8	<8.9	14 ^J	<8.9	88.8 ^J	26.5
Fluorene	2,290,000	22,000,000	14,802.7	<4.9	<4.5	<5	393	<4.5	<9.1	<8.8	<8.9	<9.9	<8.9	<11.2 ^U	21.6
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	<2.8	<2.6	<2.8	113	<2.5	<6.9	<6.7	<6.8	<7.5	<6.7	19.6 ^J	9.3 ^J
Naphthalene	5,150	26,000	658.2	<3.4	24	<3.5	130	<3.1	<9.1	9.4 ^J	9.1 ^J	<9.9	<8.9	128 ^J	<8.9
Phenanthrene	18,000	390,000	1,800	8.4 ^J	23.8	8.9 ^J	533	<3.9	<9.1	29.9	19.6	15.4 ^J	<8.9	271 ^J	36.5
Pyrene	1,720,000	16,500,000	54,132.2	10.8 ^J	<3.3	4.8 ^J	365	4.4 ^J	<9.1	<8.8	<8.9	12.1 ^J	<8.9	96.1 ^J	38.3

Table 11c
CS5 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-509 (3-4) 03/28/14	PZ-509 (8-9) 03/28/14	PZ-509 (19-20) 03/28/14	MW-510 (3-4) 03/31/14	GP-511 (2-3) 12/21/11	GP-511 (6-7) 12/21/11	GP-512 (2-3) 12/21/11	GP-512 (6-7) 12/21/11	GP-514 (2-4) 12/21/11	GP-514 (6-7) 12/21/11	GP-515 (3-4) 12/21/11	GP-515 (6-7) 12/21/11
	Direct Contact Pathway		Groundwater Pathway												
	Non-Industrial	Industrial													
1-Methylnaphthalene	15,600	53,100	23,000	<8.8	<10.1	<9.5	<10.2	45	<3.2	<3.4	7.6 ^J	<2.8	3.2 ^J	12.3 ^J	<3.2
2-Methylnaphthalene	229,000	2,200,000	20,000	<8.8	<10.1	<9.5	<10.2	63.4	<3.2	<3.4	12.7 ^J	<2.8	4.3 ^J	15.1 ^J	<3.2
Acenaphthene	3,440,000	33,000,000	38,000	<8.8	<10.1	<9.5	<10.2	4 ^J	<2.9	3.5 ^J	4.9 ^J	<2.6	<2.7	<3.3	<2.9
Acenaphthylene	18,000	360,000	700	<7.9	<9	<8.5	<9.1	8.3 ^J	<3.3	9.1 ^J	<3.2	<3	<3.1	<3.7	<3.3
Anthracene	17,200,000	100,000,000	197,727.3	<9.1	13.6 ^J	<9.8	<10.6	20.6	<4.8	24.3	<4.7	<4.3	<4.5	<5.4	<4.9
Benzo(a)anthracene	148	2,110	17,000	<6.1	10.2 ^J	<6.6	<7.1	77.8	<2.9	60.1	<2.9	<2.6	<2.8	8.8 ^J	<3
Benzo(a)pyrene	15	211	470	<6.3	<7.2	<6.8	<7.3	102 ^A	<3.4	57.3 ^A	<3.3	<3.1	<3.2	7.5 ^J	<3.4
Benzo(b)fluoranthene	148	2,110	479.3	<8.8	10.8 ^J	<9.5	<10.2	83.1	<3.6	38	<3.5	<3.2	<3.4	14.4 ^J	<3.6
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	<6.7	<7.7	<7.2	<7.8	48.7	<2.7	32.3	<2.7	<2.5	<2.6	4.7 ^J	<2.8
Benzo(k)fluoranthene	377	21,100	870,000	<9.7	<11.2	<10.5	<11.3	97.4	<3.8	53.9	<3.7	<3.5	<3.6	10.4 ^J	<3.9
Chrysene	14,800	211,000	144.6	<8.1	15.2 ^J	<8.8	<9.4	93.8	<3.8	63.8	3.8 ^J	<3.4	<3.5	21.1 ^J	<3.8
Dibenz(a,h)anthracene	15	211	38,000	<6.4	<7.4	<7	<7.5	20.1 ^A	<5.6	10 ^J	<5.5	<5.1	<5.3	<6.3	<5.7
Fluoranthene	2,290,000	22,000,000	88,877.8	<8.8	46.6	<9.5	<10.2	96.7	<10.4	146	<10	<9.3	<9.7	33	<10.5
Fluorene	2,290,000	22,000,000	14,802.7	<8.8	<10.1	<9.5	<10.2	<4.6	<5.2	5.7 ^J	<5	<4.6	<4.8	<5.8	<5.2
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	<6.7	<7.7	<7.2	<7.8	48.3	<2.9	28.6	<2.9	<2.6	<2.8	4.6 ^J	<3
Naphthalene	5,150	26,000	658.2	<8.8	15 ^J	<9.5	<10.2	48.2	<3.6	4.4 ^J	17.6 ^J	<3.3	<3.4	20 ^J	<3.7
Phenanthrene	18,000	390,000	1,800	<8.8	30	<9.5	<10.2	88.1	<4.6	96.7	9.3 ^J	<4.1	<4.3	25.6	<4.6
Pyrene	1,720,000	16,500,000	54,132.2	<8.8	34.5	<9.5	<10.2	92.5	<3.8	133	4 ^J	<3.4	<3.6	19.7 ^J	<3.8

Table 11c
CS5 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-516	GP-516	GP-517	GP-517	GP-517	GP-518	GP-518	GP-519	GP-519	GP-520	GP-520	GP-521
	Direct Contact Pathway		Groundwater Pathway	(3-4)	(7-8)	(3-4)	(3-4) FD	(6-7)	(3-4)	(6-7)	(3-4)	(6-7)	(2-3)	(5-6)	(3-4)
	Non-Industrial	Industrial		12/21/11	12/21/11	12/21/11	12/21/11	12/21/11	12/20/11	12/20/11	12/20/11	12/20/11	12/22/11	12/22/11	12/20/11
1-Methylnaphthalene	15,600	53,100	23,000	78.6 ^J	4.4 ^J	12.3 ^J	9.6 ^J	<3.1	14.3 ^J	6.9 ^J	19.5	<3.1	19.2	3 ^J	<2.6
2-Methylnaphthalene	229,000	2,200,000	20,000	131 ^J	6.9 ^J	15 ^J	12.7 ^J	<3.1	26.7	10.9 ^J	25.6	<3.1	38.5	4 ^J	<2.6
Acenaphthene	3,440,000	33,000,000	38,000	<51.4	<2.9	<2.5	<2.4	<2.8	2.9 ^J	3.8 ^J	<2.7	<2.9	25.8	<2.8	<2.4
Acenaphthylene	18,000	360,000	700	405	<3.3	<2.8	<2.7	<3.2	<2.9	<3	<3.1	<3.3	4.4 ^J	<3.1	<2.7
Anthracene	17,200,000	100,000,000	197,727.3	694	<4.8	<4.1	<4	<4.7	<4.2	9.5 ^J	<4.5	<4.8	53.5	<4.6	<4
Benzo(a)anthracene	148	2,110	17,000	1,030 ^A	<2.9	<2.5	<2.4	<2.8	6.4 ^J	9.3 ^J	<2.7	<2.9	9.9 ^J	<2.8	<2.4
Benzo(a)pyrene	15	211	470	2,850 ^{ABC}	<3.4	<2.9	<2.8	<3.3	4.4 ^J	7.6 ^J	<3.2	<3.3	5.4 ^J	<3.2	<2.8
Benzo(b)fluoranthene	148	2,110	479.3	3,050 ^{AC}	<3.6	<3	<3	<3.5	7.7 ^J	11 ^J	<3.3	<3.5	10 ^J	<3.4	<3
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	3,110 ^A	<2.7	<2.3	<2.3	<2.6	3 ^J	4.8 ^J	<2.6	<2.7	17.7 ^J	<2.6	<2.3
Benzo(k)fluoranthene	377	21,100	870,000	1,850 ^A	<3.8	<3.2	<3.2	<3.7	4.1 ^J	7.6 ^J	<3.6	<3.8	6.8 ^J	<3.6	<3.2
Chrysene	14,800	211,000	144.6	1,350 ^C	4 ^J	4.9 ^J	5.1 ^J	<3.6	12.2 ^J	14.7 ^J	5 ^J	<3.7	16 ^J	<3.6	<3.1
Dibenz(a,h)anthracene	15	211	38,000	619 ^{AB}	<5.6	<4.7	<4.7	<5.4	<4.9	<5.1	<5.3	<5.6	<4.9	<5.3	<4.7
Fluoranthene	2,290,000	22,000,000	88,877.8	1470	<10.3	<8.7	<8.6	<10	14.9 ^J	35.3	<9.7	<10.2	70.5	<9.8	<8.6
Fluorene	2,290,000	22,000,000	14,802.7	94.5 ^J	<5.1	<4.3	<4.3	<5	4.7 ^J	<4.6	<4.8	<5.1	24.7	<4.9	<4.3
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	2,590 ^{AB}	<2.9	<2.5	<2.4	<2.8	<2.6	3.9 ^J	<2.7	<2.9	8.7 ^J	<2.8	<2.4
Naphthalene	5,150	26,000	658.2	182 ^J	<3.6	16.3 ^J	12.8 ^J	<3.5	36.4	24.6	12.9 ^J	<3.6	289	<3.4	<3
Phenanthrene	18,000	390,000	1,800	884	8.8 ^J	25.3	21.8	<4.4	18.3	27.9	13.4 ^J	<4.5	281	8.3 ^J	<3.8
Pyrene	1,720,000	16,500,000	54,132.2	1620	4 ^J	<3.2	<3.2	<3.7	15.8 ^{JJ}	33.4	<3.5	<3.7	44.5	<3.6	<3.1

Table 11c
CS5 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-521	GP-522	GP-522	GP-523	GP-523	GP-524	GP-524	GP-525	GP-525	GP-526	GP-526	GP-527	GP-528
	Direct Contact Pathway		Groundwater Pathway	(8-9)	(1-2)	(19-20)	(3-4)	(8-9)	(3-4)	(6-7)	(1-2)	(6-7)	(3-4)	(6-7)	(3-4)	(3-4)
	Non-Industrial	Industrial		12/20/11	12/20/11	12/20/11	12/20/11	12/20/11	12/20/11	12/20/11	12/20/11	12/20/11	12/21/11	12/21/11	12/21/11	12/21/11
1-Methylnaphthalene	15,600	53,100	23,000	<2.8	<2.6	<30.2	<2.7	<2.7	<2.6	<2.6	<2.6	<2.7	<2.7	<2.7	<2.6	<2.6
2-Methylnaphthalene	229,000	2,200,000	20,000	<2.8	3.2 ^J	59 ^J	<2.7	<2.7	<2.6	<2.6	<2.6	<2.7	<2.7	<2.7	<2.6	<2.6
Acenaphthene	3,440,000	33,000,000	38,000	<2.6	<2.4	47.1 ^J	<2.5	<2.5	<2.4	<2.4	<2.4	<2.5	<2.4	<2.4	<2.4	<2.4
Acenaphthylene	18,000	360,000	700	<2.9	<2.8	739 ^C	<2.8	<2.8	<2.7	<2.7	<2.7	<2.8	<2.8	<2.8	<2.7	<2.7
Anthracene	17,200,000	100,000,000	197,727.3	<4.3	<4	1,330	<4.1	<4.1	<4	<4	<4	<4.1	<4	<4	<4	<4
Benzo(a)anthracene	148	2,110	17,000	<2.6	<2.5	887 ^A	<2.5	<2.5	3.7 ^J	2.7 ^J	<2.4	<2.5	<2.5	<2.5	<2.4	<2.4
Benzo(a)pyrene	15	211	470	<3	3 ^J	7,820 ^{ABC}	<2.9	<2.9	3.8 ^J	<2.8	<2.8	<2.9	<2.8	<2.8	<2.8	<2.8
Benzo(b)fluoranthene	148	2,110	479.3	<3.2	3.9 ^J	5,180 ^{AB}	<3	<3.1	3.9 ^J	<3	<3	<3	<3	<3	<3	<3
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	<2.4	3.1 ^J	9,010 ^A	<2.3	<2.3	2.9 ^J	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3
Benzo(k)fluoranthene	377	21,100	870,000	<3.4	3.6 ^J	3,160 ^A	<3.2	<3.3	3.4 ^J	<3.2	<3.2	<3.3	<3.2	<3.2	<3.2	<3.2
Chrysene	14,800	211,000	144.6	<3.3	5.6 ^J	1,060 ^C	<3.2	<3.2	4.2 ^J	<3.1	<3.1	<3.2	<3.2	<3.2	<3.1	<3.1
Dibenz(a,h)anthracene	15	211	38,000	<5	<4.7	2,790 ^{AB}	<4.8	<4.8	<4.7	<4.7	<4.7	<4.8	<4.7	<4.7	<4.7	<4.7
Fluoranthene	2,290,000	22,000,000	88,877.8	<9.1	<8.7	1,380	<8.7	<8.9	<8.6	<8.6	<8.6	<8.8	<8.7	<8.7	<8.6	<8.6
Fluorene	2,290,000	22,000,000	14,802.7	<4.5	<4.3	111 ^J	<4.3	<4.4	<4.3	<4.3	<4.3	<4.4	<4.3	<4.3	<4.3	<4.3
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	<2.6	<2.5	8,140 ^{AB}	<2.5	<2.5	<2.4	<2.5	<2.4	<2.5	<2.5	<2.5	<2.4	<2.4
Naphthalene	5,150	26,000	658.2	<3.2	<3	210	<3.1	<3.1	<3	<3	<3	<3.1	<3	<3	<3	<3
Phenanthrene	18,000	390,000	1,800	<4	5.5 ^J	1,010	<3.8	<3.9	<3.8	<3.8	<3.8	<3.9	<3.8	<3.8	<3.8	<3.8
Pyrene	1,720,000	16,500,000	54,132.2	<3.3	6.9 ^J	1,230	<3.2	3.4 ^J	5.2 ^J	3.3 ^J	<3.1	<3.2	<3.2	<3.2	<3.8	<3.2

Table 11c
CS5 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-528	GP-529	GP-529	(9-10)	GP-530	GP-531	GP-532	GP-533	GP-534	GP-535	GP-536
	Direct Contact Pathway		Groundwater Pathway	(7-8)	(2-3)	(9-10)	FD	(3-4)	(3-4)	(3-4)	(3-4)	(5-6)	(3-4)	(3-4)
	Non-Industrial	Industrial		12/20/11	12/20/11	12/20/11	12/20/11	04/17/25	04/17/29	04/17/29	04/17/29	04/17/29	04/17/29	04/17/29
1-Methylnaphthalene	15,600	53,100	23,000	8.4 ^J	<2.6	<2.9	<2.8	<8.9	90.1 ^{J-}	<54.6	18.2 ^J	12.8 ^J	<43.3	<10.4
2-Methylnaphthalene	229,000	2,200,000	20,000	4.3 ^J	<2.6	<2.9	<2.8	<8.9	103 ^{J-}	156	24.8	14.2 ^J	<43.3	<10.4
Acenaphthene	3,440,000	33,000,000	38,000	<3	<2.4	<2.6	<2.6	<8.9	18.9 ^{J-}	<54.6	<9.5	<10.1	<43.3	<10.4
Acenaphthylene	18,000	360,000	700	<3.4	<2.7	<3	<3	<7.9	8.5 ^{J-}	<48.8	<8.5	<9.1	<38.8	<9.3
Anthracene	17,200,000	100,000,000	197,727.3	<4.9	<4	<4.4	<4.3	<9.2	34.2 ^{J-}	<56.6	<9.9	<10.5	<44.9	<10.8
Benzo(a)anthracene	148	2,110	17,000	8 ^J	<2.4	<2.7	<2.6	<6.1	35.8 ^{J-}	<37.8	8.1 ^J	<7	<30	<7.2
Benzo(a)pyrene	15	211	470	9.9 ^J	<2.8	<3.1	<3	<6.3	31 ^{J-A}	<39	<6.8	<7.2	<31	<7.4
Benzo(b)fluoranthene	148	2,110	479.3	12.9 ^J	<3	<3.2	<3.2	<8.9	25.6 ^{J-}	<54.6	<9.5	<10.1	<43.3	<10.4
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	6.5 ^J	<2.3	<2.5	<2.5	<6.7	19.7 ^{J-}	<41.6	<7.3	<7.7	36.7 ^J	<7.9
Benzo(k)fluoranthene	377	21,100	870,000	12.4 ^J	<3.2	<3.5	<3.4	<9.8	18.1 ^{J-}	<60.4	<10.6	<11.2	<47.9	<11.5
Chrysene	14,800	211,000	144.6	12 ^J	<3.1	<3.4	<3.4	<8.2	40.9 ^{J-}	141	16.6 ^J	<9.4	<40.1	<9.6
Dibenz(a,h)anthracene	15	211	38,000	<5.7	<4.7	<5.1	<5	<6.5	7.3 ^{J-}	<40	<7	<7.4	<31.8	<7.6
Fluoranthene	2,290,000	22,000,000	88,877.8	18.7 ^J	<8.6	<9.4	<9.3	<8.9	39.3 ^{J-}	62.6 ^J	17.7 ^J	<10.1	<43.3	<10.4
Fluorene	2,290,000	22,000,000	14,802.7	<5.3	<4.3	<4.7	<4.6	<8.9	15 ^{J-}	<54.6	<9.5	<10.1	<43.3	<10.4
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	6.2 ^J	<2.4	<2.7	<2.6	<6.7	10 ^{J-}	<41.5	<7.3	<7.7	<32.9	<7.9
Naphthalene	5,150	26,000	658.2	<3.7	<3	<3.3	<3.2	<8.9	44.1 ^{J-}	77.3 ^J	33	15.9 ^J	<43.3	<10.4
Phenanthrene	18,000	390,000	1,800	12.7 ^J	<3.8	<4.1	<4.1	<8.9	183 ^{J-}	137	42.8	18.6 ^J	<43.3	<10.4
Pyrene	1,720,000	16,500,000	54,132.2	16.9 ^J	<3.1	<3.4	<3.4	<8.9	57.1 ^{J-}	58.8 ^J	18.1 ^J	<10.1	<43.3	<10.4

Notes:

PAHs = Polycyclic Aromatic Hydrocarbons

mg/kg = Milligrams per kilogram. ug/kg = Micrograms per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

^D = Analyte was detected in the method blank.

^U = Not detected, detection limit elevated based on lab QC; see data validation memo.

+/- = Value estimated due to matrix effect (* = biased high) (ˆ = biased low).

DUP/D/FD = Field duplicate.

Generic RCLs June 2014 per WDNR PUB-RR-890.

**Table 11d
CS5 Metals in Soil
Kenosha Engine Plant,**

Sample locations are presented numerically

Parameters	Generic RCLs			PZ500 (3-4) 01/03/12	PZ500 (5-6) 01/03/12	PZ501 (3-4) 12/21/11	PZ501 (8-9) 12/21/11	PZ507 (3-4) 05/13/14	GP511 (2-3) 12/21/11	GP512 (2-3) 12/21/11	GP517 (3-4) 12/21/11	GP517 (3-4) FD 12/21/11	GP519 (3-4) 12/20/11	GP520 (2-3) 12/22/11	
	Direct Contact Pathway		Groundwater												
	Non-Industrial	Industrial	Pathway												
Metals (mg/kg)															
Arsenic	0.613	2.39	0.58	1.3 ^{JAC}	5.7 ^{ABC}	6.7 ^{ABC}	1.7 ^{JAC}	NT	2.7 ^{ABC}	5.9 ^{ABC}	1.8 ^{JAC}	2.6 ^{ABC}	1.5 ^{JAC}	1.5 ^{JAC}	
Barium	15,300	100,000	164.8	13.8	48.4	122	8.1	NT	398 ^C	186 ^C	16.2	20.7	12.1	43.8	
Cadmium	70	799	0.752	0.067 ^J	0.093 ^J	0.89 ^C	0.36 ^J	NT	0.27 ^J	0.16 ^J	0.017 ^J	0.016 ^J	<0.019	0.068 ^J	
Chromium	100,000	100,000	360	5.3	16.5	22.2	8.4	NT	15.4	27.4	4.9	5.4	5.1	10.2	
Copper	3,130	40,900	91.6	3.3	16	55.3	18.9	NT	33.2	21.1	3.3	5.7	2.8	7.1	
Lead	400	800	27	3.4	6.7	103 ^C	9.4	6.6	49.7 ^C	13.9	5.2	8.3	5.2	742 ^{AC}	
Mercury	3.13	3.13	0.208	0.0073	0.012	0.034	0.012	NT	0.073	0.037	<0.002	<0.0023	0.0032 ^J	0.08	
Nickel	1,550	19,800	13.1	5.7	16.7 ^C	107 ^C	6.8	NT	23.5 ^C	22.5 ^C	4.4	5	5.5	7.7	
Selenium	391	5,110	0.52	0.32 ^J	<0.35	0.39 ^J	<0.31	NT	<0.29	<0.34	<0.29	<0.26	<0.34	<0.28	
Silver	391	5,110	0.85	<0.09	<0.1	0.24 ^J	<0.093	NT	0.11 ^J	0.11 ^J	<0.085	<0.076	<0.1	0.14 ^J	
Zinc	23,500	100,000	--	31.6	28.1	123	94.1	NT	53.3	49.5	10.8	15.4	11	32.8	

**Table 11d
CS5 Metals in Soil
Kenosha Engine Plant,**

Sample locations are presented numerically

Parameters	Generic RCLs			GP521 (3-4) 12/20/11	GP522 (1-2) 12/20/11	GP523 (3-4) 12/20/11	GP524 (3-4) 12/20/11	GP525 (1-2) 12/20/11	GP526 (3-4) 12/21/11	GP527 (3-4) 12/21/11	GP528 (3-4) 12/20/11	GP529 (2-3) 12/20/11	GP533 (3-4) 03/31/14	GP534 (5-6) 03/31/14
	Direct Contact Pathway		Groundwater Pathway											
	Non-Industrial	Industrial												
Metals (mg/kg)														
Arsenic	0.613	2.39	0.58	2.6 ^{ABC}	3 ^{ABC}	2.9 ^{ABC}	2.3 ^{AC}	2.4 ^{ABC}	2.6 ^{ABC}	2.2 ^{AC}	2.3 ^{AC}	2.8 ^{ABC}	NT	NT
Barium	15,300	100,000	164.8	7.1	13.8	35.4	7.1	6.7	7.2	7.7	7.1	6.8	NT	NT
Cadmium	70	799	0.752	0.074 ^J	0.099 ^J	0.082 ^J	0.1 ^J	0.057 ^J	0.1 ^J	0.1 ^J	0.074 ^J	0.07 ^J	NT	NT
Chromium	100,000	100,000	360	3.4	4.3	6.5	3	3.9	4.7	4	4.4	4.2	NT	NT
Copper	3,130	40,900	91.6	5.2	6.4	6.6	5.5	5.4	6.2	5.5	4.9	6.2	NT	NT
Lead	400	800	27	2.4	5	3.4	2.6	2.3	2.2	2.2	2.4	2.8	85.9 ^J	14.5
Mercury	3.13	3.13	0.208	0.0025 ^J	0.0075	0.0039 ^J	0.0063	<0.002	0.0026 ^J	0.0037 ^J	0.0024 ^J	0.003 ^J	NT	NT
Nickel	1,550	19,800	13.1	3.9	5.1	6.3	3.7	4.1	4.4	4.1	4.6	5.1	NT	NT
Selenium	391	5,110	0.52	<0.3	<0.29	<0.29	<0.3	<0.29	<0.28	<0.27	<0.29	<0.3	NT	NT
Silver	391	5,110	0.85	<0.088	<0.088	<0.086	<0.09	<0.088	<0.082	<0.081	<0.087	<0.088	NT	NT
Zinc	23,500	100,000	--	13.2	25.7	16.6	21.1	12.7	14.4	13.9	12.6	16.2	NT	NT

Notes:

mg/kg = Milligrams per kilogram. ug/kg = Micrograms per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

Table e
CS5 Polychlorinated Biphenyls in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-500 (3-4)	PZ-500 (5-6)	PZ-501 (3-4)	PZ-501 (8-9)	GP-513 (3-4)	GP-513 (6-7)	GP-514 (2-4)	GP-514 (6-7)	GP-515 (3-4)	GP-515 (6-7)	GP-516 (3-4)	GP-516 (7-8)	GP-520 (2-3)	GP-520 (5-6)
	Direct Contact Pathway		Groundwater Pathway	01/03/12	01/03/12	12/21/11	12/21/11	12/21/11	12/21/11	12/21/11	12/21/11	12/21/11	12/21/11	12/21/11	12/21/11	12/22/11	12/22/11
	Non-Industrial	Industrial															
PCBs (µg/kg)																	
Aroclor 1016	3930	21200	9.4	<25.8	<28.3	<27.2	<25.4	<31	<29.6	<26.4	<27.5	<32.9	<29.7	<25.9	<29.1	<25.6	<27.8
Aroclor 1221	159	589	9.4	<25.8	<28.3	<27.2	<25.4	<31	<29.6	<26.4	<27.5	<32.9	<29.7	<25.9	<29.1	<25.6	<27.8
Aroclor 1232	159	589	9.4	<25.8	<28.3	<27.2	<25.4	<31	<29.6	<26.4	<27.5	<32.9	<29.7	<25.9	<29.1	<25.6	<27.8
Aroclor 1242	221	744	9.4	<25.8	<28.3	<27.2	<25.4	<31	<29.6	<26.4	<27.5	<32.9	<29.7	<25.9	<29.1	<25.6	<27.8
Aroclor 1248	221	744	9.4	<25.8	<28.3	<27.2	<25.4	<31	<29.6	<26.4	<27.5	<32.9	<29.7	<25.9	<29.1	<25.6	<27.8
Aroclor 1254	221	744	9.4	<25.8	<28.3	<27.2	<25.4	<31	<29.6	<26.4	<27.5	<32.9	<29.7	<25.9	<29.1	<25.6	<27.8
Aroclor 1260	221	744	9.4	<25.8	<28.3	<27.2	<25.4	<31	<29.6	<26.4	<27.5	<32.9	<29.7	<25.9	<29.1	<25.6	<27.8
PCB, Total	--	--	--	<25.8	<28.3	<27.2	<25.4	<31	<29.6	<26.4	<27.5	<32.9	<29.7	<25.9	<29.1	<25.6	<27.8

Notes:

PCBs = Polychlorinated Biphenyls

mg/kg = Milligrams per kilogram. ug/kg = Micrograms per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

-- = No generic RCL established.

DUP/D/FD = Field duplicate.

Generic RCLs June 2014 per WDNR PUB-RR-890.

**CS6 SOIL SAMPLE LOCATIONS
FORMER KENOSHA ENGINE PLANT
KENOSHA, WISCONSIN**

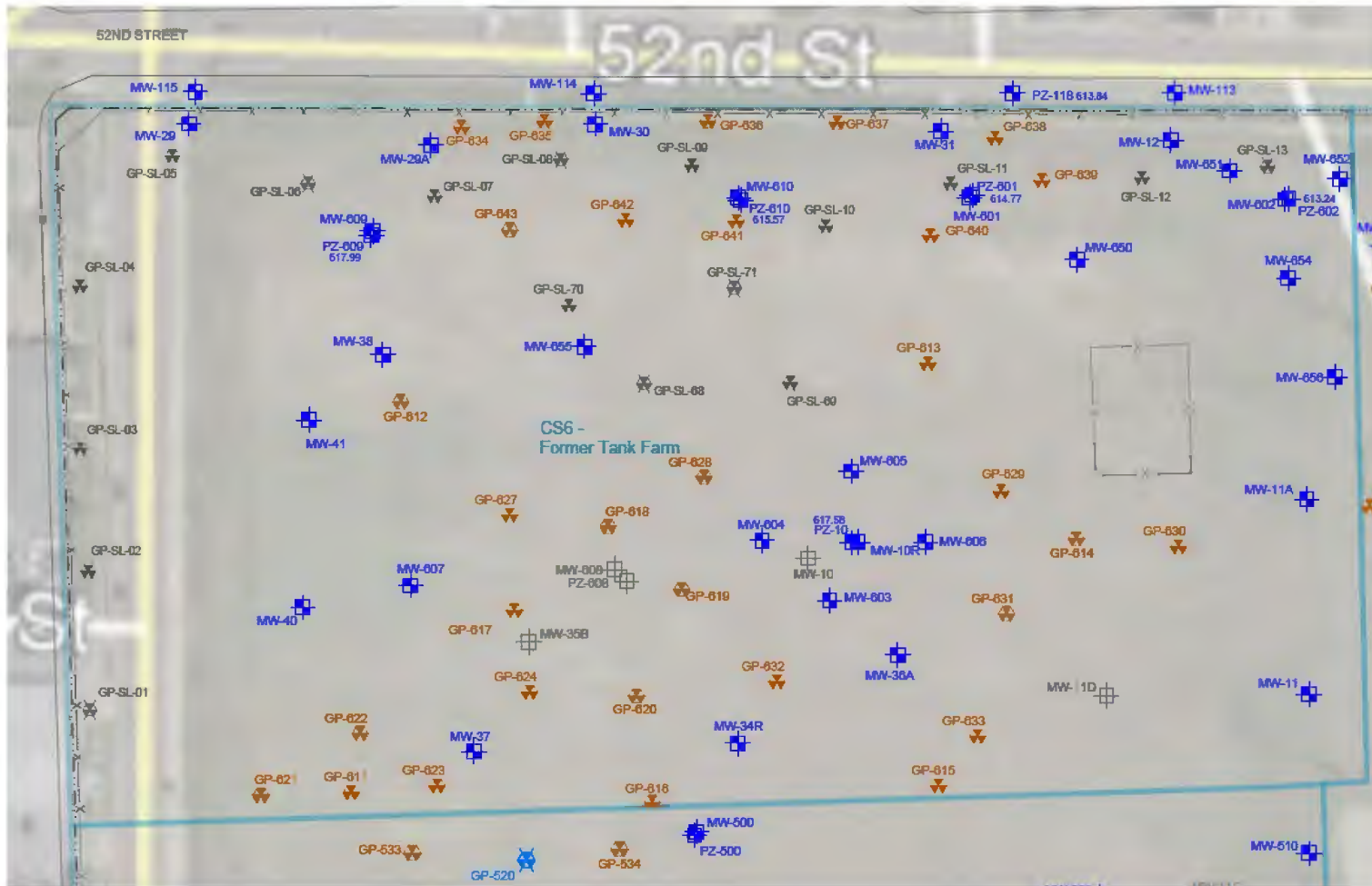
Drawn: Ila 1-23-2024

Checked: Ila 1-23-2024

Approved: Ila 1-23-2024

PROJECT NUMBER **60677460**

FIGURE NUMBER **CS6**



- MW-xxx EXISTING WATER TABLE MONITORING WELL (MW) OR PIEZOMETER (PZ)
- MW-xxx ABANDONED MONITORING WELL (MW) OR PIEZOMETER (PZ)
- ▲ GP-xxx SOIL PROBE
- ▲/ GP-xxx SOIL PROBE - REFUSAL
- GP-xxx SOIL PROBE / TEMPORARY MONITORING WELLS
- GP-xxx PHASE II INVESTIGATION
- GP-xxx INTERIM INVESTIGATION

Table 12a
CS6 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-SL-01	GP-SL-01	GP-SL-02	GP-SL-02	GP-SL-03	GP-SL-03	GP-SL-04	GP-SL-04	GP-SL-05	GP-SL-05	GP-SL-06	GP-SL-06
	Direct Contact Pathway		Groundwater Pathway	(2-3)	(16-17)	(1-2)	(15-16)	(2-3)	(15-16)	(2-3)	(14-15)	(1-2)	(16-17)	(2-3)	(21-22)
	Non-Industrial	Industrial		05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/16/11
VOCs (µg/kg)															
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethene	342,000	1,190,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Dichlorodifluoromethane	135,000	571,000	3,086.3	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	87.1^{Cb}	73.8^{Cb}	74.2^{Cb}	<25	<25	92.5^{Cb}	88.3^{Cb}	<25	74.7^{Cb}	<25	95.3^{Cb}	<25
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
n-Butylbenzene	108,000	108,000	----	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4
n-Propylbenzene	264,000	264,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75

Table 12a
CS6 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-SL-07	GP-SL-07	GP-SL-07	GP-SL-08	GP-SL-08	GP-SL-08	GP-SL-09	GP-SL-09	GP-SL-09	GP-SL-09	GP-SL-10	GP-SL-10	GP-SL-10
	Direct Contact Pathway		Groundwater Pathway	(2-3)	(6-7)	(22-23)	(2-3)	(11-12)	(22-23)	(2-3)	(11-12)	(11-12) DUP	(21-22)	(2-3)	(15-16)	(27-28)
	Non-Industrial	Industrial		05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/16/11
VOCs (µg/kg)																
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	1,150^C	<25	<25	39.6^J	<25	<25	31.6^J	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	53.5^J	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethene	342,000	1,190,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	152	<25	<25	140^C	127^C	<25	<25	<25	<25
Dichlorodifluoromethane	135,000	571,000	3,086.3	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	36.4^{CJb}	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	<25	<25	1,640^C	<25	<25	<25	<25	<25	<25
n-Butylbenzene	108,000	108,000	----	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4
n-Propylbenzene	264,000	264,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	46.1^{CJ}	8,460^C	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	34.1^{CJ}	1,450^{AC}	<25	32.6^{CJ}	731^C	<25	<25	3,710^{AC}	3,660^{AC}	<25	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75

Table 12a
CS6 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-SL-11	GP-SL-11	GP-SL-11	GP-SL-12	GP-SL-12	GP-SL-12	GP-SL-13	GP-SL-13	GP-SL-13	GP-SL-13	GP-SL-68	GP-SL-68	GP-SL-69
	Direct Contact Pathway		Groundwater Pathway	(2-3)	(15-16)	(23-24)	(2-3)	(16-17)	(25-26)	(3-4)	(6-7)	(6-7) D	(24-25)	(1-2)	(22-23)	(1-2)
	Non-Industrial	Industrial		05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/17/11	05/17/11	05/17/11	05/17/11	05/24/11	05/24/11
VOCs (µg/kg)																
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	46 ^J	<25	<25	<25	<25	<25	<200	<200	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	54.6 ^J	<25	<25	<25	<25	<25	<200	<200	<25	<25	<25	<25
1,1-Dichloroethene	342,000	1,190,000	5	<25	<25	<25	<25	<25	<25	<25	<200	<200	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	3,310	25,800 ^C	22,300 ^C	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	1,080	8,420 ^C	7,260 ^C	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	1,040 ^C	3,080 ^{AC}	2,380 ^{AC}	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	693 ^C	<25	<25	<25	<25	<25	<200	<200	<25	<25	<25	<25
Dichlorodifluoromethane	135,000	571,000	3,086.3	<25	<25	<25	<25	<25	<25	<25	<200	<200	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	636	24,300 ^{AC}	20,300 ^{AC}	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	<25	<25	<25	402	2,400	2,200	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	33.2 ^{CJb}	44.8 ^{CJb}	86.6 ^{Cb}	<25	<25	<25	<25	<200	<200	<25	32.4 ^{CJ}	<25	<25
Naphthalene	5,150	26,000	658.7	<25	226	<25	<25	<25	<25	270	5,890 ^{AC}	5,670 ^{AC}	<25	37.4 ^J	<25	156
n-Butylbenzene	108,000	108,000	----	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<323	<323	<40.4	<40.4	<40.4	<40.4
n-Propylbenzene	264,000	264,000	----	<25	<25	<25	<25	<25	<25	1,040	5,560	4,790	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	<25	<25	<25	214	1,490	1,450	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	<25	<25	<25	174	1,200	1,130	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25	<25	<25	<25	246	1,680	1,570	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	67.6 ^{CJ}	122	<25	<25	<25	<25	<25	<200	<200	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	38.5 ^J	607	492 ^J	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<200	<200	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	105 ^C	10,600 ^{ABC}	<25	<25	<25	<25	<25	<200	<200	<25	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<200	<200	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<75	<75	<75	5,390 ^C	45,500 ^C	38,700 ^C	<77.4	<77.4	<77.4	<77.4

Table 12a
CS6 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-SL-69 (7-8)	GP-SL-69 (23-24)	GP-SL-70 (2-3)	GP-SL-70 (2-3) DUP	GP-SL-70 (22-23)	GP-SL-71 (2-3)	GP-SL-71 (20-21)	GP-611 (1-2)	GP-612 (1-2)	GP-613 (1-2)	GP-613 (6-7)	GP-614 (1-2)	GP-614 (1-2) FD	
	Direct Contact Pathway		Groundwater	05/24/11	05/24/11	05/24/11	05/24/11	05/24/11	05/24/11	05/24/11	07/28/11	07/28/11	07/27/11	07/27/11	07/27/11	07/27/11	
	Non-Industrial	Industrial	Pathway														
VOCs (µg/kg)																	
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethene	342,000	1,190,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Dichlorodifluoromethane	135,000	571,000	3,086.3	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	33.8 ^{CJ}	29.2 ^{CJ}	<25	31 ^{CJ}	<25	<25	<25	<25	<25	<25	54.8 ^{JbC}	47.7 ^{JbC}	79.9 ^{bC}	79.9 ^{bC}
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	<25	<25	<25	46.3 ^J	<25	<25	36 ^J	1,160 ^C	1,370 ^C	<25
n-Butylbenzene	108,000	108,000	----	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<25	<25	<25	<25	<25	<25	<25
n-Propylbenzene	264,000	264,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	116.8 ^J	<75	<75	<75	<75	<75	<75

Table 12a
CS6 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-615	GP-616	GP-617	GP-617	GP-618	GP-618	GP-619	GP-620	GP-621	GP-622	GP-622	GP-623	GP-623
	Direct Contact Pathway		Groundwater	(1-2)	(1-2)	(1-2)	(8-9)	(1-2)	(6-7)	(1-2)	(1-2)	(2-3)	(3-4)	(7-7.5)	(3-4)	(6-7)
	Non-Industrial	Industrial	Pathway	07/27/11	07/28/11	07/28/11	07/28/11	07/28/11	07/28/11	07/28/11	07/28/11	04/14/14	04/14/14	04/14/14	04/14/14	04/14/14
VOCs (µg/kg)																
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<312	<25	<25	<25.8	<25	<25	128	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<312	<25	<25	<25.8	<25	<25	<25	<25	<25	<25
1,1-Dichloroethene	342,000	1,190,000	5	<25	<25	<25	<312	<25	<25	<25.8	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	53.4 ^J	46,300 ^C	84.2	178	1,060	118	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	13,300 ^C	28.8 ^J	69.3 ^J	337	34.1 ^J	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	1,740 ^{AC}	<25	79.5 ^C	39.4 ^{JC}	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<312	<25	<25	197 ^C	227 ^C	<25	<25	<25	<25	<25
Dichlorodifluoromethane	135,000	571,000	3,086.3	<25	<25	<25	<312	<25	<25	<25.8	<25	<25	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	97.3	20,600 ^{AC}	60.3 ^J	244	800	117	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	1,620	<25	131	55 ^{JC}	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	75.9 ^{bC}	55.4 ^{JbC}	34.7 ^{JbC}	1,920 ^C	<25	<25	<25.8	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	43.7 ^J	<25	138	5,820 ^{AC}	<25	439	242	<25	48.5 ^J	<40	<40	<40	<40
n-Butylbenzene	108,000	108,000	----	<25	<25	<25	<312	<25	<25	<25.8	<25	<25	<25	<25	<25	<25
n-Propylbenzene	264,000	264,000	----	<25	<25	<25	7,750	<25	37.6 ^J	214	28.2 ^J	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	472 ^J	<25	<25	<25.8	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	765 ^J	<25	<25	<25.8	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25	<312	<25	<25	<25.8	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<25	<25	<25	<312	<25	<25	<25.8	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	2,820 ^C	<25	72.5	148	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<312	<25	<25	37.2 ^J	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	42.8 ^{JC}	<25	<25	<312	<25	243 ^C	360 ^C	234 ^C	<25	<25	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<312	<25	<25	30.8 ^{JC}	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	408.1	103,600 ^C	270.4	1,875	3,773	492	<75	<75	<75	<75	<75

Table 12a
CS6 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-624	GP-624	GP-627	GP-627	GP-628	GP-629	GP-629	GP-630	GP-630	GP-630	GP-630	GP-631	GP-631
	Direct Contact Pathway		Groundwater Pathway	(3-4)	(7.5-8.5)	(3-4)	(8-9)	(3-4)	(3.5-4)	(9-10)	(3-4)	(11.5-12.5)	(13.5-14.2)	(14.2-15)	(3-4)	(11-12)
	Non-Industrial	Industrial		04/14/14	04/14/14	04/14/14	04/14/14	04/14/14	04/15/14	04/15/14	04/15/14	04/15/14	04/15/14	04/15/14	04/15/14	04/15/14
VOCs (µg/kg)																
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	30 ^J	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5
1,1-Dichloroethene	342,000	1,190,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	97.3	63.5 ^J	<25	<62.5
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	220 ^C	37.4 ^{JC}	<25	<62.5
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	89 ^C	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5
Dichlorodifluoromethane	135,000	571,000	3,086.3	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	145	513	<25	<62.5
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5
Naphthalene	5,150	26,000	658.7	<40	<40	<40	<40	<40	<40	<40	<40	<40	146 ^J	1900 ^C	<40	995 ^C
n-Butylbenzene	108,000	108,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	118	<25	211
n-Propylbenzene	264,000	264,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	192	1910	<25	<62.5
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	55.5 ^J	<25	<62.5
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	81.3	<25	<62.5
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	44.5 ^J	<25	<62.5
Tetrachloroethene	30,700	153,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	61.7 ^J	<25	<25	<62.5
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5
Trichloroethene	1,260	8,810	3.6	<25	<25	67.6 ^{JC}	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<75	<75	<75	<75	<75	<75	1806	123 ^J	<75	<187.5

Table 12a
CS6 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-632	GP-632	GP-633	GP-633	GP-634	GP-634	GP-634	GP-635	GP-635	GP-635	GP-636	GP-636	GP-636
	Direct Contact Pathway		Groundwater Pathway	(3-4)	(9-9.7)	(3-4)	(8-9)	(3-4)	(6-7)	(14-15)	(3-4)	(6-7)	(16-17)	(3-4)	(6-7)	(17.5-18)
	Non-Industrial	Industrial		04/15/14	04/15/14	04/15/14	04/15/14	05/01/14	05/01/14	05/01/14	05/01/14	05/01/14	05/01/14	05/01/14	05/01/14	05/01/14
VOCs (µg/kg)																
1,1,1-Trichloroethane	640,000	640,000	140.2	121	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethene	342,000	1,190,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Dichlorodifluoromethane	135,000	571,000	3,086.3	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
n-Butylbenzene	108,000	108,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
n-Propylbenzene	264,000	264,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	137 ^c	77.1 ^c	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75

Table 12a
CS6 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-637	GP-637	GP-637	GP-638	GP-638	GP-638	GP-639	GP-639	GP-639	GP-640	GP-640	GP-640	GP-641
	Direct Contact Pathway		Groundwater Pathway	(3-4)	(9-10)	(18-18.8)	(3-4)	(12-13)	(28-29)	(3-4)	(8-9)	(20)	(3-4)	(8-9)	(22-22.5)	(3-4)
	Non-Industrial	Industrial		05/01/14	05/01/14	05/01/14	04/24/14	04/24/14	04/24/14	05/01/14	05/01/14	05/01/14	04/30/14	04/30/14	04/30/14	04/30/14
VOCs (µg/kg)																
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	464^C	<25	50.4^J	<25	<25	<25	70.8^J	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	453	<25	<25	<25	<25	<25	38.4^J	<25	<25	<25	<25	<25
1,1-Dichloroethene	342,000	1,190,000	5	<25	73.2^C	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	96.7^C	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Dichlorodifluoromethane	135,000	571,000	3,086.3	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<40	<40	<40	<40	<40	<40	1,570^C	<40	<40	<40	<40	<40	<40
n-Butylbenzene	108,000	108,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
n-Propylbenzene	264,000	264,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<25	<25	<25	<25	<25	<25	<25	64.8^{JC}	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	33.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	6,740^{AC}	<25	<25	<25	<25	<25	1,920^{AC}	<25	<25	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	35.9^{JC}	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75

Table 12a
CS6 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-641	GP-641	GP-642	GP-642	GP-642	GP-643	GP-643	GP-643
	Direct Contact Pathway		Groundwater	(14-15)	(22-23)	(3-4)	(7-8)	(23-24)	(3-4)	(11-12)	(22-23)
	Non-Industrial	Industrial	Pathway	04/30/14	04/30/14	05/01/14	05/01/14	05/01/14	05/01/14	05/01/14	05/01/14
VOCs (µg/kg)											
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	98.4	608 ^C	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	332	<25
1,1-Dichloroethene	342,000	1,190,000	5	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<25	38.2	<25
Dichlorodifluoromethane	135,000	571,000	3,086.3	<25	<25	<25	<25	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<40	<40	<40	<40	<40	<40	<40	<40
n-Butylbenzene	108,000	108,000	----	<25	<25	<25	<25	<25	<25	<25	<25
n-Propylbenzene	264,000	264,000	----	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<25	<25	131 ^C	<25	<25	880 ^C	466 ^C	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	34.1	<25	<25	33
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	<25	1,550 ^{AC}	6,350 ^{AC}	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<75	<75	<75	<75	<75

Notes:

VOCs = Volatile Organic Compounds

mg/kg = Milligrams per kilogram. µg/kg = Micrograms per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

^b = Analyte was detected in the method blank.

-- = No gen DUP/D/FD = Field duplicate.

Generic RCLs June 2014 per WDNR PUB-RR-890.

Table 12b
CS6 Detected Volatile Organic Compounds in Soil from Monitoring Well and Piezometer Locations
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-10 (1-3)	PZ-10 (1-3) FD	PZ-10 (23-25)	MW-113 6-7'	MW-114 7-8'	MW-114 9.5-10.5'	MW-115 6-7'	PZ-118 (3-4)	PZ-118 (8-9)	PZ-118 (16.5-17)	MW-603 (1-2)	MW-603 (7.5-8.5)	MW-604 (2-3)	MW-605 (1-2)	
	Direct Contact Pathway		Groundwater Pathway															
	Non-Industrial	Industrial																
VOCs (µg/kg)																		
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	138	<25	<25	<25	<25	<25	
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
1,1-Dichloroethene	342,000	1,190,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	111	<25	<25	
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	142	<25	<25	
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
Dichlorodifluoromethane	135,000	571,000	3,086.3	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	77.6	<25	<25	
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	96.4	<25	<25	
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
Naphthalene	5,150	26,000	658.7	788 ^c	372	<25	<25	<25	<25	<25	<40	<40	<40	<25	45.4 ^J	97.2	<25	
n-Butylbenzene	108,000	108,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	157	<25	<25	
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	54.3 ^J	<25	<25	
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	67.4	<25	<25	
tert-Butylbenzene	183,000	183,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
Tetrachloroethene	30,700	153,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	151.8 ^J	<75	<75	

Table 12b
CS6 Detected Volatile Organic Compounds in Soil from Monitoring Well and Piezometer Locations
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			MW-606	MW-607	MW-607	PZ-608	PZ-608	PZ-608	PZ-608	PZ-608	PZ-609	PZ-609	PZ-609	PZ-609	PZ-610	PZ-610
	Direct Contact Pathway		Groundwater Pathway	(1-2)	(2-3)	(8-9)	(3-4)	(3-4) FD	(6-7)	(12-13)	(20-21)	(3-4)	(8-9)	(23-24) FD	(23-24)	(3-4)	(9-10)
	Non-Industrial	Industrial		07/25/11	04/25/14	04/25/14	04/28/14	04/28/14	04/28/14	04/28/14	04/28/14	04/28/14	04/25/14	04/25/14	04/25/14	04/25/14	04/28/14
VOCs (µg/kg)																	
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<2,000	<25	234 ^C	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<2,000	<25	<25	<25	<25	<25	<25	63.6 ^J
1,1-Dichloroethene	342,000	1,190,000	5	<25	<25	<25	<25	<25	<25	<2,000	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	29.9 ^J	<25	357,000 ^{ABC}	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	102,000 ^C	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	13,900 ^{ABC}	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<25	<2,000	<25	<25	<25	<25	<25	<25	<25
Dichlorodifluoromethane	135,000	571,000	3,086.3	<25	37.8 ^J	<25	<25	<25	<25	<2,000	<25	<25	<25	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	188,000 ^{ABC}	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	<25	<25	<25	15,700	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	<25	<2,000	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	107	<40	<40	1,520 ^C	2,510 ^{JC}	401 ^J	55,000 ^{ABC}	<40	53.3 ^J	<40	<40	<40	221 ^J	<40
n-Butylbenzene	108,000	108,000	--	<25	<25	<25	<25	<25	<25	33,200	<25	<25	<25	<25	<25	<25	<25
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	<25	<25	<25	63,000	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	<25	<25	<25	3,850 ^J	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<25	<25	<25	6,950	<25	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	--	<25	<25	<25	<25	<25	<25	<2,000	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<25	69.2 ^C	<25	<25	<25	<25	<2,000	<25	456 ^C	<25	<25	<25	72.9 ^C	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	254,000 ^C	47.4 ^J	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<2,000	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	<25	<25	<2,000	<25	82.4 ^C	<25	<25	<25	42.1 ^{JC}	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<2,000	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75

Table 12b
CS6 Detected Volatile Organic Compounds in Soil from Monitoring Well and Piezometer Locations
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-610 (9-10) FD 04/28/14	PZ-610 (24-25) (3-4) 04/28/14	MW-650 (3-4) (6-7) 04/30/14	MW-650 (6-7) 04/30/14	MW-651 (3-4) (3-4) 04/29/14	MW-651 (9-10) (9-10) 04/29/14	MW-651 (12-13) (3-4) 04/29/14	MW-652 (3-4) (3-4) 04/30/14	MW-652 (10-11) (10-11) 04/30/14	MW-652 (17-18) (17-18) 04/30/14	MW-653 (2-4) (2-4) 04/30/14	MW-653 (8-9) (8-9) 04/30/14	MW-653 (2-4) FD (2-4) FD 04/30/14	MW-653 (13-14) (13-14) 04/30/14	
	Direct Contact Pathway		Groundwater Pathway															
	Non-Industrial	Industrial																
VOCs (µg/kg)																		
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	76.1	<100	<50	<25	<100	<125	<25	<25	<25	<50	
1,1-Dichloroethane	4,720	23,700	482.8	84.6	<25	<25	<25	<25	<100	<50	<25	<100	<125	<25	<25	<25	<50	
1,1-Dichloroethene	342,000	1,190,000	5	<25	<25	<25	<25	<25	<100	<50	<25	<100	<125	<25	<25	<25	<50	
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	39.2 ^J	20,400 ^C	5,940 ^C	<25	22,400 ^C	2,780 ^C	<25	<25	<25	9,540 ^C	
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	34.1 ^J	14,300 ^C	1,980 ^C	<25	6,750 ^C	856	<25	<25	<25	3,890 ^C	
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<100	477 ^C	<25	786 ^C	1,840 ^{AC}	<25	<25	<25	<50	
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<100	<50	<25	<100	<125	<25	<25	<25	<50	
Dichlorodifluoromethane	135,000	571,000	3,086.3	<25	<25	<25	<25	<25	<100	<50	<25	<100	<125	<25	<25	<25	<50	
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	8,170 ^{AC}	10,900 ^{AC}	<25	20,100 ^{AC}	2,750 ^C	<25	<25	<25	12,900 ^{AC}	
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	<25	<25	5,490	461	<25	1,430	202 ^J	<25	<25	<25	1,170	
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	<100	<50	<25	<100	<125	<25	<25	<25	<50	
Naphthalene	5,150	26,000	658.7	<40	<40	<40	<40	48.8 ^J	2,410 ^C	547 ^J	<40	4,160 ^C	522 ^J	<40	<40	<40	3,210 ^C	
n-Butylbenzene	108,000	108,000	--	<25	<25	<25	<25	<25	<100	818	<25	1,900	296 ^J	<25	<25	<25	1,380	
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	<25	<25	21,800	1,490	<25	4,950	624	<25	<25	<25	3,960	
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	<25	<25	1,630	<50	<25	285	<125	<25	<25	<25	178	
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<25	<25	3,060	154	<25	411	<125	<25	<25	<25	329	
tert-Butylbenzene	183,000	183,000	--	<25	<25	<25	<25	<25	1,070	70.2 ^J	<25	169 ^J	<125	<25	<25	<25	107 ^J	
Tetrachloroethene	30,700	153,000	5	<25	<25	<25	<25	<25	<100	<25	<25	<100	<125	<25	<25	<25	<50	
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<100	1,590 ^C	<25	2,260 ^C	29,800 ^C	<25	<25	<25	85 ^J	
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<100	<50	<25	<100	<125	<25	<25	<25	<50	
Trichloroethene	1,260	8,810	3.6	<25	<25	83.5 ^C	<25	<25	<100	<50	<25	<100	<125	<25	<25	<25	<50	
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<100	<50	<25	<100	<125	<25	<25	<25	<50	
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<75	<75	6,266 ^C	24,180 ^C	<75	38,100 ^C	3,930	<75	<75	<75	7,010 ^C	

Table 12b
CS6 Detected Volatile Organic Compounds in Soil from Monitoring Well and Piezometer Locations
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			MW-654 (3-4) 04/28/14	MW-654 (9-9.8) 04/28/14	MW-654 (14-15) 04/28/14	MW-655 (2-3) 04/28/14	MW-655 (8-9) 04/28/14	MW-656 (3-4) 04/29/14	MW-656 (7-9) 04/29/14	MW-656 (11-12) 04/29/14
	Direct Contact Pathway		Groundwater Pathway								
	Non-Industrial	Industrial									
VOCs (µg/kg)											
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<312	<5,000	<25	<25	<25	<25	<62.5
1,1-Dichloroethane	4,720	23,700	482.8	<25	<312	<5,000	<25	<25	<25	<25	<62.5
1,1-Dichloroethene	342,000	1,190,000	5	<25	<312	<5,000	<25	<25	<25	<25	<62.5
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	40.2 ^J	41,500 ^C	197,000 ^{AC}	<25	<25	<25	207	12,400 ^C
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	35 ^J	13,600 ^C	57,300 ^C	<25	<25	<25	115	3,860 ^C
Benzene	1,490	7,410	5.1	897 ^C	4,840 ^{AC}	86,900 ^{ABC}	<25	<25	<25	<25	<62.5
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<312	<5,000	<25	<25	<25	<25	<62.5
Dichlorodifluoromethane	135,000	571,000	3,086.3	<25	<312	<5,000	<25	<25	<25	<25	<62.5
Ethylbenzene	7,470	37,000	1,570	313	44,900 ^{ABC}	192,000 ^{ABC}	<25	<25	<25	1180	13,500 ^{AC}
Isopropylbenzene (Cumene)	268,000	268,000	--	109	3,170	11,400 ^J	<25	<25	<25	774 ^{JA}	878
Methylene Chloride	60,700	1,070,000	2.6	<25	<312	<5,000	<25	<25	<25	<25	<62.5
Naphthalene	5,150	26,000	658.7	<40	6,100 ^{AC}	28,500 ^{JABC}	<40	<40	<40	2070 ^C	3,070 ^C
n-Butylbenzene	108,000	108,000	--	<25	4,510	16,600	<25	<25	<25	1250	1,050
n-Propylbenzene	264,000	264,000	--	309	9,810	37,500	<25	<25	<25	2590	2,810
p-Isopropyltoluene	162,000	162,000	--	<25	<312	<5,000	<25	<25	<25	222	148 ^J
sec-Butylbenzene	145,000	145,000	--	<25	912	<5,000	<25	<25	<25	387	214
tert-Butylbenzene	183,000	183,000	--	<25	914	<5,000	<25	<25	<25	223	103 ^J
Tetrachloroethene	30,700	153,000	5	<25	<312	<5,000	<25	<25	<25	<25	<62.5
Toluene	818,000	818,000	1107.2	54.3 ^J	26,700 ^C	478,000 ^C	<25	<25	<25	<25	<62.5
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<312	<5,000	<25	<25	<25	<25	<62.5
Trichloroethene	1,260	8,810	3.6	<25	<312	<5,000	<25	47.6 ^{JC}	<25	<25	<62.5
Vinyl chloride	67	2,030	0.1	<25	<312	<5,000	<25	<25	<25	<25	<62.5
Xylene (Total)	258,000	258,000	3,940	883	117,900 ^C	583,000 ^{ABC}	<75	<75	<75	161	28,530 ^C

Notes:

VOCs = Volatile Organic Compounds

mg/kg = Milligrams per kilogram. µg/kg = Micrograms per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

⁺ = Value estimated due to matrix effect (⁺ = biased high) (⁻ = biased low).

-- = No generic RCL established.

DUP/D/FD = Field duplicate.

Generic RCLs June 2014 per WDNR PUB-RR-890.

Table 12c
CS6 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-SL-01	GP-SL-02	GP-SL-03	GP-SL-04	GP-SL-05	GP-SL-05	GP-SL-06	GP-SL-07	GP-SL-08	GP-SL-09	GP-SL-10	GP-SL-11
	Direct Contact Pathway		Groundwater Pathway	(2-3)	(1-2)	(2-3)	(2-3)	(1-2)	(3-4)	(2-3)	(2-3)	(2-3)	(2-3)	(2-3)	(2-3)
	Non-Industrial	Industrial		05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/16/11
PAHs (µg/kg)															
1-Methylnaphthalene	15,600	53,100	23,000	<2.9	<2.9	<3.2	<3.1	<3.1	27.7	<2.9	<2.9	<3	352 ^J	44.5	<37.5
2-Methylnaphthalene	229,000	2,200,000	20,000	<2.9	<2.9	<3.2	<3.1	3.2 ^J	34.8	<2.9	<2.9	7.1 ^J	304 ^J	51.8	<37.5
Acenaphthene	3,440,000	33,000,000	38,000	<2.6	<2.7	<2.9	4.7 ^J	<2.8	3.3 ^J	<2.6	17.4 ^J	<2.8	2,590	<2.9	138 ^J
Acenaphthylene	18,000	360,000	700	<3	<3	<3.3	<3.3	<3.2	<2.8	<3	<3	<3.2	213 ^J	<3.3	<39.2
Anthracene	17,200,000	100,000,000	197,727.3	<4.4	<4.4	<4.8	13.3 ^J	6.8 ^J	22.4	<4.4	43.1	<4.6	4,780	<4.8	336
Benzo(a)anthracene	148	2,110	17,000	<2.7	<2.7	3.5 ^J	31.8	23.1	83.1	<2.7	178 ^A	3.4 ^J	8,940 ^{AB}	3.9 ^J	911 ^A
Benzo(a)pyrene	15	211	470	<3.1	<3.1	<3.4	33.5 ^A	22.1 ^A	73.2 ^A	<3.1	203 ^A	3.3 ^J	8,850 ^{ABC}	3.9 ^J	858 ^{ABC}
Benzo(b)fluoranthene	148	2,110	479.3	4 ^J	4.1 ^J	9.2 ^J	35.3	27.5	68.2	3.3 ^J	234 ^A	8.8 ^J	7,800 ^{ABC}	8.6 ^J	955 ^{AC}
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	<2.5	<2.5	<2.7	20.3 ^J	16.1 ^J	34.7	<2.5	132	3 ^J	5,510 ^A	3.9 ^J	655
Benzo(k)fluoranthene	1,480	21,100	870,000	<3.5	<3.5	<3.9	31.8	21.7	74.3	<3.5	169	5.3 ^J	8,680 ^A	5 ^J	760
Chrysene	14,800	211,000	144.6	<3.4	<3.4	5.9 ^J	38.4	25.1	92.2	<3.4	212	7.4 ^J	9,940 ^C	6.1 ^J	1,000
Dibenz(a,h)anthracene	15	211	38,000	<5.1	<5.2	<5.7	6.9 ^J	<5.5	14.4 ^J	<5.1	41.7 ^A	<5.4	1,650 ^{AB}	<5.6	184 ^{JA}
Fluoranthene	2,290,000	22,000,000	88,877.8	<9.4	<9.5	<10.4	71.1	55	177	<9.4	530	11.2 ^J	28,300	13 ^J	2480
Fluorene	2,290,000	22,000,000	14,802.7	<4.7	<4.7	<5.2	<5.1	<5	4.4 ^J	<4.7	13.6 ^J	<5	2,210	<5.1	121 ^J
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	<2.7	<2.7	<3	17.3 ^J	13.1 ^J	32.1	<2.7	114	<2.8	4,790 ^{AB}	3.2 ^J	548 ^A
Naphthalene	5,150	26,000	658.2	<3.3	<3.3	13.4 ^J	4.1 ^J	5.2 ^J	38.2	<3.3	<3.3	48.8	727 ^{JC}	22.3	46 ^J
Phenanthrene	18,000	390,000	1,800	<4.1	4.9 ^J	6.2 ^J	55.5	26.8	127	<4.1	252	7 ^J	17,300 ^C	15.7 ^J	1,610
Pyrene	1,720,000	16,500,000	54,132.2	<3.4	3.6 ^J	6.8 ^J	58.1	44.6	142	<3.4	431	7.4 ^J	22,400	11.1 ^J	2,000

Table 12c
CS6 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-SL-12	GP-SL-13	GP-SL-68	GP-SL-69	GP-SL-69	GP-SL-70	GP-SL-70	GP-SL-71	PZ-10	PZ-10	MW-113	MW-114
	Direct Contact Pathway		Groundwater Pathway	(2-3)	(3-4)	(1-2)	(1-2)	(7-8)	(2-3)	(2-3) DUP	(2-3)	(1-3)	(1-3) FD	(6-7)	(7-8)
	Non-Industrial	Industrial		05/16/11	05/17/11	05/24/11	05/24/11	05/24/11	05/24/11	05/24/11	05/24/11	07/25/11	07/25/11	11/30/10	11/30/10
PAHs (µg/kg)															
1-Methylnaphthalene	15,600	53,100	23,000	<3.2	19.8 ^J	17.5 ^J	25.6 ^J	43.9	13.7 ^J	16.7 ^J	6.1 ^J	69 ^J	20.1 ^J	5.4 ^J	159 ^J
2-Methylnaphthalene	229,000	2,200,000	20,000	<3.2	46.9	27.6 ^J	43.9 ^J	71.9	17.5 ^J	22 ^J	6.4 ^J	120	34.7 ^J	5.3 ^J	130 ^J
Acenaphthene	3,440,000	33,000,000	38,000	<2.9	<3.2	34.2 ^J	157	55.3	19.1	46 ^J	26.1	350	116	<2.9	1,150
Acenaphthylene	18,000	360,000	700	<3.3	<3.6	<9.5	<14.5	8.1 ^J	<2.9	<9.9	6.6 ^J	34.2 ^J	25.6 ^J	<3.2	<62.8
Anthracene	17,200,000	100,000,000	197,727.3	<4.8	5.8 ^J	48.1 ^J	310	80.6	34.9	92.6	59.4	816	306	<4.7	3,060
Benzo(a)anthracene	148	2,110	17,000	3.8 ^J	7.9 ^J	172 ^A	699 ^A	129	136	321 ^A	185 ^A	1,440 ^A	709 ^A	6.5 ^J	3,060 ^{AB}
Benzo(a)pyrene	15	211	470	3.6 ^J	6.3 ^J	106 ^A	581 ^{ABC}	115 ^A	152 ^A	382 ^{AB}	238 ^{AB}	1,090 ^{ABC}	675 ^{ABC}	4.0 ^J	2,550 ^{ABC}
Benzo(b)fluoranthene	148	2,110	479.3	13 ^J	11.4 ^J	173 ^A	631 ^{AC}	114 ^A	199 ^A	387 ^A	254 ^{Ab}	1,550 ^{AC}	895 ^{AC}	15.2 ^{Jb}	3,100 ^{ABbC}
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	3.8 ^J	7.9 ^J	119	424	73.7	128	306	200	412	280	<2.7	1,180
Benzo(k)fluoranthene	1,480	21,100	870,000	6.4 ^J	9.2 ^J	175	696	109	178	422	241	1,370	783	<3.8	1,940 ^A
Chrysene	14,800	211,000	144.6	13.1 ^J	12.1 ^J	235	761	146	180	377	239	1,960 ^C	906 ^C	7.2 ^J	3,470
Dibenz(a,h)anthracene	15	211	38,000	<5.6	<6.2	30.4 ^{JA}	132 ^A	22.6 ^A	39.3 ^A	89.2 ^A	50.2 ^A	177 ^A	108 ^A	<5.5	363 ^{JA}
Fluoranthene	2,290,000	22,000,000	88,877.8	15.3 ^J	27.2	964	2,860	448	344	873	587	3,880	1,900	<10.2	9,660
Fluorene	2,290,000	22,000,000	14,802.7	<5.2	<5.6	<14.8	99.8	72.4	14.7 ^J	41.4 ^J	21 ^J	147	56.9 ^J	<5.1	1,350
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	3.5 ^J	6.3 ^J	103	370 ^A	62.5	117	268 ^A	169 ^A	477 ^A	299 ^A	<2.9	978 ^A
Naphthalene	5,150	26,000	658.2	4.2 ^J	156	30.3 ^J	77.1 ^J	204	10 ^J	13.9 ^J	17.4 ^J	351	84.7	5.2 ^J	568
Phenanthrene	18,000	390,000	1,800	7.2 ^J	21.2 ^J	954	2,620 ^C	388	123	371	269	3,930 ^C	1,630	15.2 ^J	9,560 ^C
Pyrene	1,720,000	16,500,000	54,132.2	9.1 ^J	19.6 ^J	723	2,160	314	350	732	472	3,360	1,630	15.2 ^J	7,530

Table 12c
CS6 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			MW-114	MW-115	PZ-118	MW-603	MW-603	MW-604	MW-605	MW-606	MW-607	PZ-608	PZ-608	PZ-608	
	Direct Contact Pathway		Groundwater Pathway	(9.5-10.5)	(6-7)	(3-4)	(1-2)	(7.5-8.5)	(2-3)	(1-2)	(1-2)	(2-3)	(3-4)	(3-4) FD	(12-13)	
	Non-Industrial	Industrial		11/30/10	11/30/10	04/30/14	07/25/11	07/25/11	07/25/11	07/25/11	07/25/11	07/25/11	04/25/14	04/28/14	04/28/14	04/28/14
PAHs (µg/kg)																
1-Methylnaphthalene	15,600	53,100	23,000	456 ^J	<3.0	<10	<10.6	29 ^J	52.2 ^J	<2.7	15.7 ^J	<180	<1,480	<1,830	20,000^A	
2-Methylnaphthalene	229,000	2,200,000	20,000	458 ^J	<3.0	<10	<10.6	55.8 ^J	72.6 ^J	<2.7	26.8 ^J	<180	<1,480	<1,830	41,500^C	
Acenaphthene	3,440,000	33,000,000	38,000	2,900	7.9 ^J	<10	21.7 ^J	56.8 ^J	211	5 ^J	49.5 ^J	<180	2,830 ^J	2,960 ^J	<1,940	
Acenaphthylene	18,000	360,000	700	<266	<3.1	<9	<11.1	391	<13.7	3 ^J	10.7 ^J	<161	<1,320	<1,640	<1,740	
Anthracene	17,200,000	100,000,000	197,727.3	5,790	20.3	<10.4	94.1	733	356	33	177	678	8,760	9,400	<2,020	
Benzo(a)anthracene	148	2,110	17,000	10,200^{AB}	46.2	33.9	368^A	170^A	1,100^A	121^A	492^A	2,010^A	19,800^{ABC}	20,600^{ABC}	<1,350	
Benzo(a)pyrene	15	211	470	9,910^{ABC}	44.8^A	34.9^A	439^{AB}	155^A	567^{ABC}	148^A	430^{AB}	2,030^{ABC}	19,700^{ABC}	21,100^{ABC}	<1,390	
Benzo(b)fluoranthene	148	2,110	479.3	12,000^{ABbC}	67.9 ^b	34.8	603^{AC}	222^A	993^{AC}	202^A	483^{AC}	1,920^{AC}	18,900^{ABC}	20,900^{ABC}	<1,940	
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	6,980^A	21	20.4	201	317	612	111	338	1,360 ^J	10,700^{J-A}	11,600^{J-A}	<1,480	
Benzo(k)fluoranthene	1,480	21,100	870,000	5,640^A	20.8	32.7	460	127	948	155	535	2,050^A	20,600^A	19,400^A	<2,150	
Chrysene	14,800	211,000	144.6	12,200^C	53	37.6	545	201	1,270	186	709^C	2,390^C	23,400^{AC}	24,000^{AC}	<1,800	
Dibenz(a,h)anthracene	15	211	38,000	1,500^{JAB}	5.8 ^J	<7.3	65.4^{JA}	48.6^{JA}	200^A	31.4^A	124^A	445^{AB}	3,750^{AB}	4,110^{AB}	<1,430	
Fluoranthene	2,290,000	22,000,000	88,877.8	30,800	113	81.2	1,400	282	3,280	380	1,240	5,040	53,400	56,700	<1,940	
Fluorene	2,290,000	22,000,000	14,802.7	2,850	5.7 ^J	<10	33.4 ^J	67.3 ^J	66 ^J	6.2 ^J	23.2 ^J	<180	4,220	4,230	<1,940	
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	5,430^{AB}	17.4 ^J	18.6 ^J	209^A	237^A	582^A	104	339^A	1,250^A	10,100^{AB}	11,300^{AB}	<1,480	
Naphthalene	5,150	26,000	658.2	2,840^C	<3.4	<10	<12.2	110	68 ^J	<3	51.3 ^J	<180	<1,480	<1,830	40,500^{ABC}	
Phenanthrene	18,000	390,000	1,800	28,000^{AC}	66.4	37.3	902	294	2,760^C	196	946	2,020^C	31,500^{AC}	32,400^{AC}	<1,940	
Pyrene	1,720,000	16,500,000	54,132.2	25,700	83.7	64.9	1,190	491	2,840	317	1,040	4,050	41,600	40,900	<1,940	

Table 12c
CS6 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-609 (3-4) 04/25/14	PZ-610 (3-4) 04/28/14	GP-611 (1-2) 07/28/11	GP-612 (1-2) 07/28/11	GP-613 (1-2) 07/27/11	GP-613 (6-7) 07/27/11	GP-614 (1-2) 07/27/11	GP-614 (1-2) FD 07/27/11	GP-615 (1-2) 07/27/11	GP-616 (1-2) 07/28/11	GP-617 (1-2) 07/28/11	GP-617 (8-9) 07/28/11	
	Direct Contact Pathway		Groundwater Pathway													
	Non-Industrial	Industrial														
PAHs (µg/kg)																
1-Methylnaphthalene	15,600	53,100	23,000	<954	120	<118	<2.7	<2.6	32.9	130 ^J	78.2 ^J	6.6 ^J	<2.7	<56.5	2170	
2-Methylnaphthalene	229,000	2,200,000	20,000	<954	134	<118	<2.7	<2.6	72.6	208 ^J	112 ^J	4.9 ^J	<2.7	<56.5	4290	
Acenaphthene	3,440,000	33,000,000	38,000	<954	229	267 ^J	3 ^{JA}	3.3 ^J	8.2 ^J	489	471	3.4 ^J	<2.5	406	43 ^J	
Acenaphthylene	18,000	360,000	700	<853	<8.1	206 ^J	<2.8	<2.8	9.5 ^J	<58.6	58.3 ^J	<2.8	<2.8	239 ^J	<39.8	
Anthracene	17,200,000	100,000,000	197,727.3	6,880	197	1,500	9.8 ^J	17.2 ^J	41.6	988	1,180	8.8 ^J	12.6 ^J	1,910	<58.2	
Benzo(a)anthracene	148	2,110	17,000	11,900 ^{AB}	270	8,430 ^{AB}	39.2	84.4	130	2,940 ^{AB}	3,500 ^{AB}	37.5	86.1	7,920 ^{ABC}	41.6 ^J	
Benzo(a)pyrene	15	211	470	9,850 ^{ABC}	254 ^{AB}	7,390 ^{ABC}	47.3 ^A	100 ^A	184 ^A	2,740 ^{ABC}	3,450 ^{ABC}	42.8 ^A	110 ^A	7,640 ^{ABC}	<40.9	
Benzo(b)fluoranthene	148	2,110	479.3	9,950 ^{ABC}	235 ^A	8,010 ^{ABC}	51.5	107 ^A	362 ^A	2,530 ^{ABC}	2,970 ^{ABC}	38	100	7,370 ^{ABC}	<43.2	
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	5,110 ^{J-A}	158 ^J	5,450 ^A	43.4	85.4	122	1,860 ^A	2,420 ^A	38	88.8	5,100 ^A	50.2 ^J	
Benzo(k)fluoranthene	1,480	21,100	870,000	9,930 ^A	236	6,800 ^A	43.1	86	283	2,580 ^A	3,360 ^A	40.2	101	7,290 ^A	<46.4	
Chrysene	14,800	211,000	144.6	13,600 ^C	309 ^C	8,720 ^C	56.6	109	273 ^C	2,990 ^C	3,530 ^C	50	110	8,360 ^C	65.6 ^J	
Dibenz(a,h)anthracene	15	211	38,000	1,940 ^{AB}	52.6 ^A	1,920 ^{AB}	10.9 ^{JA}	22.5 ^A	47.3 ^A	632 ^{AB}	801 ^{AB}	10.1 ^J	24.5 ^A	1,770 ^{AB}	<68	
Fluoranthene	2,290,000	22,000,000	88,877.8	31,800	874	22,800	126	269	222	7,690	8,770	83.2	268	16,400	131 ^J	
Fluorene	2,290,000	22,000,000	14,802.7	1,380 ^J	179	<193	<4.4	<4.3	12.1 ^J	417	439	<4.4	<4.4	844	79.6 ^J	
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	5,130 ^{AB}	149 ^A	5,000 ^{AB}	34.6	71.3	133 ^A	1,720 ^A	2,230 ^A	28.9	73.6	4,780 ^{AB}	<35.5	
Naphthalene	5,150	26,000	658.2	<954	347	<136	<3.1	<3	73.3	385	194 ^J	3.9 ^J	3.1 ^J	91.7 ^J	6,300 ^C	
Phenanthrene	18,000	390,000	1,800	21,100 ^{AC}	806	5,030 ^C	65.3	123	137	4,000 ^C	4,740 ^C	45.4	102	7,250 ^C	200 ^J	
Pyrene	1,720,000	16,500,000	54,132.2	24,900	634	17,100	104	239	213	5,890	7,010	75.8	226	14,200	126 ^J	

Table 12c
CS6 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-618	GP-618	GP-619	GP-620	GP-621	GP-622	GP-623	GP-624	GP-627	GP-628	GP-629	GP-630
	Direct Contact Pathway		Groundwater Pathway	(1-2)	(6-7)	(1-2)	(1-2)	(2-3)	(3-4)	(3-4)	(3-4)	(3-4)	(3-4)	(3-5-4)	(3-4)
	Non-Industrial	Industrial		07/28/11	07/28/11	07/28/11	07/28/11	04/14/14	04/14/14	04/14/14	04/14/14	04/14/14	04/14/14	04/15/14	04/15/14
PAHs (µg/kg)															
1-Methylnaphthalene	15,600	53,100	23,000	<5.4	121 ^J	194 ^J	7.5 ^J	<915	<8.9	<10.1	100	<19.2	<8.6	<9.3	<193
2-Methylnaphthalene	229,000	2,200,000	20,000	<5.4	143 ^J	244 ^J	14.8 ^J	<915	<8.9	<10.1	<45.8	<19.2	<8.6	<9.3	<193
Acenaphthene	3,440,000	33,000,000	38,000	13 ^J	3,610	358	6.4 ^J	<915	<8.9	<10.1	62.1 ^J	<19.2	19.4	<9.3	<193
Acenaphthylene	18,000	360,000	700	<5.6	531	<56.4	<2.9	<819	<8	<9.1	58.9 ^J	<17.2	<7.7	<8.3	<173
Anthracene	17,200,000	100,000,000	197,727.3	47.5	3,860	420	32.6	3,130	<9.3	<10.5	129	<19.9	64.9	<9.7	420
Benzo(a)anthracene	148	2,110	17,000	223 ^A	3,120 ^{AB}	1,670 ^A	74.9	8,760 ^{AB}	<6.2	13.6 ^J	133	<13.3	295 ^A	11.9 ^J	1,470 ^A
Benzo(a)pyrene	15	211	470	288 ^{AB}	1,900 ^{ABC}	775 ^{ABC}	81.4 ^A	8,010 ^{ABC}	<6.4	14 ^J	447 ^{AB}	<13.7	345 ^{AB}	12.7 ^J	1,780 ^{ABC}
Benzo(b)fluoranthene	148	2,110	479.3	267 ^A	2,080 ^{AC}	1,540 ^{AC}	77.7	8,210 ^{ABC}	<8.9	14.8 ^J	453 ^A	<19.2	344 ^A	16.3 ^J	1,780 ^{AC}
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	247	993	888	64.2	5,100	<6.8	10.7 ^J	318	<14.6	347	12 ^J	1,230
Benzo(k)fluoranthene	1,480	21,100	870,000	269	1,830 ^A	1,420	78.1	6,990 ^A	<9.9	11.7 ^J	295	<21.2	343	<10.3	1,480 ^A
Chrysene	14,800	211,000	144.6	292	2,810 ^C	2,080 ^C	88	10,100 ^C	10.3 ^J	17.1 ^J	645 ^C	<17.7	368 ^C	15.1 ^J	1,810 ^C
Dibenz(a,h)anthracene	15	211	38,000	66.2 ^A	311 ^{JAB}	251 ^{JA}	19.9 ^A	1,690 ^{JAB}	<6.6	<7.4	111 ^A	<14.1	94.3 ^A	<6.8	394 ^{AB}
Fluoranthene	2,290,000	22,000,000	88,877.8	763	12,400	9,270	214	21,000	<8.9	24.1	578	<19.2	753	24.9	3,330
Fluorene	2,290,000	22,000,000	14,802.7	16.3 ^J	3,150	238 ^J	11.3 ^J	<915	<8.9	<10.1	83.8 ^J	<19.2	13.7 ^J	<9.3	<193
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	206 ^A	929 ^A	802 ^A	55	4,540 ^{AB}	<6.8	8.1 ^J	280 ^A	<14.6	292 ^A	9 ^J	1,110 ^A
Naphthalene	5,150	26,000	658.2	10.3 ^J	314 ^J	151 ^J	28.5	<915	<8.9	<10.1	52.7 ^J	<19.2	27.7	<9.3	<193
Phenanthrene	18,000	390,000	1,800	430	2,180 ^C	9,510 ^C	73.6	8,640 ^C	9.7 ^J	13.8 ^J	339	<19.2	355	<9.3	1,610
Pyrene	1,720,000	16,500,000	54,132.2	617	10,800	6,750	178	16,600	<8.9	18.5 ^J	1170	<19.2	554	19	2,810

Table 12c
CS6 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-631	GP-632	GP-633	GP-634	GP-635	GP-636	GP-637	GP-638	GP-639	GP-640	GP-641	GP-642
	Direct Contact Pathway		Groundwater	(3-4)	(3-4)	(3-4)	(3-4)	(3-4)	(3-4)	(3-4)	(3-4)	(3-4)	(3-4)	(3-4)	(3-4)
	Non-Industrial	Industrial	Pathway	04/15/14	04/15/14	04/15/14	05/01/14	05/01/14	05/01/14	05/01/14	04/24/14	05/01/14	04/30/14	04/30/14	05/01/14
PAHs (µg/kg)															
1-Methylnaphthalene	15,600	53,100	23,000	<171	20.7	<10.2	<9.6	<9.9	<10	<191	38.9	<3690	<10.1	<9.9	<9.8
2-Methylnaphthalene	229,000	2,200,000	20,000	<171	39.6	<10.2	<9.6	<9.9	<10	<191	62.4	4000 ^J	<10.1	11.2 ^J	<9.8
Acenaphthene	3,440,000	33,000,000	38,000	<171	<8.9	<10.2	<9.6	<9.9	15.5	371	<10	14,000	52.9	<9.9	<9.8
Acenaphthylene	18,000	360,000	700	<153	<8	<9.1	<8.6	<8.9	<9	<171	33.6	<3300	<9	<8.9	<8.8
Anthracene	17,200,000	100,000,000	197,727.3	550	<9.2	26.5	<10	<10.3	34.9	772	20.7	31,400	142	<10.3	<10.2
Benzo(a)anthracene	148	2,110	17,000	1,260 ^A	<6.2	82.8	<6.7	<6.9	90.4	2,390 ^{AB}	22.5	70,400 ^{ABC}	343 ^A	<6.9	<6.8
Benzo(a)pyrene	15	211	470	1,220 ^{ABC}	<6.4	111 ^A	<6.9	<7.1	91.1 ^A	2,610 ^{ABC}	14.6 ^J	68,700 ^{ABC}	367 ^{AB}	<7.1	<7
Benzo(b)fluoranthene	148	2,110	479.3	1,270 ^{AC}	<8.9	101	<9.6	<9.9	94	2,170 ^{ABC}	10.2 ^J	66,800 ^{ABC}	384 ^A	<9.9	<9.8
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	755	<6.8	94.2	<7.3	<7.6	66.1	1,780	<7.6	45,200 ^A	198	<7.6	<7.5
Benzo(k)fluoranthene	1,480	21,100	870,000	961	<9.9	109	<10.6	<11	84.3	2,590 ^A	13.6 ^J	62,200 ^{AB}	316	<11	<10.9
Chrysene	14,800	211,000	144.6	1,490 ^C	13.9 ^J	123	<8.9	<9.2	104	2,950 ^C	30.9	81,400 ^{AC}	383 ^C	<9.2	<9.1
Dibenz(a,h)anthracene	15	211	38,000	248 ^{JAB}	<6.5	19.1 ^{JA}	<7	<7.3	20.5 ^A	517 ^{AB}	<7.4	14,700 ^{AB}	73 ^A	<7.3	<7.2
Fluoranthene	2,290,000	22,000,000	88,877.8	3,320	12 ^J	267	<9.6	<9.9	264	7310	46.3	205,000 ^C	930	<9.9	<9.8
Fluorene	2,290,000	22,000,000	14,802.7	<171	<8.9	<10.2	<9.6	<9.9	12	328	<10	14,300	50	<9.9	<9.8
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	652 ^A	<6.8	74.3	<7.3	<7.5	57.5	1,500 ^A	<7.6	41,300 ^{AB}	201 ^A	<7.6	<7.5
Naphthalene	5,150	26,000	658.2	<171	107	10.8 ^J	<9.6	<9.9	<10	<191	132	7,850 ^{AC}	18.8 ^J	30.2	<9.8
Phenanthrene	18,000	390,000	1,800	2,220 ^C	28.1	97.7	<9.6	<9.9	151	4,530 ^C	117	124,000 ^{AC}	537	<9.9	<9.8
Pyrene	1,720,000	16,500,000	54,132.2	2,510	12.3 ^J	222	<9.6	<9.9	190	5,330	43.5	156,000 ^C	711	<9.9	<9.8

Table 12c
CS6 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-643 (3-4) 05/01/14	MW-650 (3-4) 04/30/14	MW-651 (3-4) 04/29/14	MW-652 (3-4) 04/30/14	MW-653 (2-4) 04/30/14	MW-653 (2-4) FD 04/30/14	MW-654 (3-4) 04/28/14	MW-655 (2-3) 04/28/14	MW-656 (3-4) 04/29/14
	Direct Contact Pathway		Groundwater Pathway									
	Non-Industrial	Industrial										
PAHs (µg/kg)												
1-Methylnaphthalene	15,600	53,100	23,000	<9.1	<185	78.3	<10.4	<9.9	<10	11.6 ^J	<8.7	<9.4
2-Methylnaphthalene	229,000	2,200,000	20,000	<9.1	<185	63.3	<10.4	<9.9	<10	12.7 ^J	<8.7	<9.4
Acenaphthene	3,440,000	33,000,000	38,000	<9.1	561	13.2 ^J	<10.4	<9.9	<10	46	<8.7	<9.4
Acenaphthylene	18,000	360,000	700	<8.2	<165	<8.2	<9.3	<8.8	<9	<10.1	<7.8	<8.4
Anthracene	17,200,000	100,000,000	197,727.3	<9.5	1,660	22.2	<10.8	<10.2	<10.4	13.5 ^J	<9	<9.7
Benzo(a)anthracene	148	2,110	17,000	<6.3	3,530 ^{AB}	52.1	<7.2	<6.8	<6.9	33.8	7.4 ^J	23.1
Benzo(a)pyrene	15	211	470	<6.5	3,460 ^{ABC}	40.6 ^A	<7.5	<7.1	<7.2	38.5 ^A	8.9 ^J	20.3 ^A
Benzo(b)fluoranthene	148	2,110	479.3	<9.1	3,510 ^{ABC}	36.1	<10.4	<9.9	<10	39.5	<8.7	18.6 ^J
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	<6.9	1,560	22.9	<8	<7.5	<7.6	35.4	7.3 ^J	12 ^J
Benzo(k)fluoranthene	1,480	21,100	870,000	<10.1	3,190 ^A	36.9	<11.6	<10.9	<11.1	45.2	<9.6	21.6
Chrysene	14,800	211,000	144.6	<8.4	4,080 ^C	63	<9.7	<9.1	<9.3	50.3	10.1 ^J	27.8
Dibenz(a,h)anthracene	15	211	38,000	<6.7	605 ^{AB}	7.8 ^J	<7.7	<7.2	<7.3	<8.3	<6.4	<6.9
Fluoranthene	2,290,000	22,000,000	88,877.8	<9.1	9,720	117	<10.4	<9.9	<10	100	22.1	59.6
Fluorene	2,290,000	22,000,000	14,802.7	<9.1	565	<9.2	<10.4	<9.9	<10	22.5 ^J	<8.7	<9.4
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	<6.9	1,630 ^A	18.6	<7.9	<7.5	<7.6	29	<6.6	10.7 ^J
Naphthalene	5,150	26,000	658.2	<9.1	<185	17.3 ^J	<10.4	<9.9	<10	117	<8.7	<9.4
Phenanthrene	18,000	390,000	1,800	<9.1	5,780 ^C	299	<10.4	<9.9	<10	49	9.1 ^J	42.8
Pyrene	1,720,000	16,500,000	54,132.2	<9.1	7,320	92.5	<10.4	<9.9	<10	81.1	17.6	45.4

Notes:

PAHs = Polycyclic Aromatic Hydrocarbons

mg/kg = Milligrams per kilogram. µg/kg = Micrograms per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

^b = Analyte was detected in the method blank.

^{*/} = Value estimated due to matrix effect (* = biased high) (/ = biased low).

**Table 12d
CS6 Metals in Soil
Kenosha Engine Plant**

Sample locations are presented numerically

Parameters	Generic RCLs			GP-SL-01	GP-SL-02	GP-SL-03	GP-SL-04	GP-SL-05	GP-SL-05	GP-SL-06	GP-SL-07	GP-SL-08
	Direct Contact Pathway		Groundwater Pathway	(2-3)	(1-2)	(2-3)	(2-3)	(1-2)	(3-4)	(2-3)	(2-3)	(2-3)
	Non-Industrial	Industrial		05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/16/11	05/16/11
Metals (mg/kg)												
Arsenic	0.6	2.4	0.584	7.6 ^{ABC}	8 ^{ABC}	9.6 ^{ABC}	8.4 ^{ABC}	7.4 ^{ABC}	1.2 ^{JAC}	7.6 ^{ABC}	7.6 ^{ABC}	9.7 ^{ABC}
Barium	15,300	100,000	164.8	56.1 ^{J+}	60.6 ^{J+}	112 ^{J+}	112 ^{J+}	109 ^{J+}	7.3 ^{J+}	56.2 ^{J+}	70.1 ^{J+}	96.6 ^{J+}
Cadmium	70	799	0.752	0.13 ^J	0.16 ^J	0.13 ^J	0.22 ^J	0.19 ^J	<0.027	0.15 ^J	0.14 ^J	0.075
Chromium	100,000	100,000	360	20	21.4	29.9	25.5	23.6	5.4	19.5	20.5	27.8
Copper	3,130	40,900	91.6	22.1	21.2	24.3	22.8	18.3	18.4	18.4	25.7	21.1
Lead	400	800	27	10.2	11.3	19.9	28	28.9	5.6	10	11.3	15.4
Mercury	3.13	3.13	0.208	0.021	0.02	0.05	0.054	0.042	0.0032 ^J	0.025	0.024	0.026
Nickel	1,550	19,800	13.1	25.4 ^C	26.9 ^C	26.9 ^C	24.7 ^C	20.7 ^C	3.2	22.6 ^C	18.7 ^C	25.5 ^C
Selenium	391	5,110	0.52	<0.16	<0.16	0.38 ^J	0.22 ^J	0.41 ^J	<0.17	<0.17	<0.16	0.27 ^J
Silver	391	5,110	0.85	<0.044	<0.045	<0.051	<0.048	<0.048	<0.047	<0.046	<0.044	0.091 ^J
Zinc	23,500	100,000	--	NT	NT	NT	NT	NT	NT	NT	NT	NT

**Table 12d
CS6 Metals in Soil
Kenosha Engine Plant**

Sample locations are presented numerically

Parameters	Generic RCLs			GP-SL-09	GP-SL-10	GP-SL-11	GP-SL-12	GP-SL-13	GP-SL-68	GP-SL-69	GP-SL-69	GP-SL-70
	Direct Contact Pathway		Groundwater Pathway	(2-3)	(2-3)	(2-3)	(2-3)	(3-4)	(1-2)	(1-2)	(7-8)	(2-3)
	Non-Industrial	Industrial		05/16/11	05/16/11	05/16/11	05/16/11	05/17/11	05/24/11	05/24/11	05/24/11	05/24/11
Metals (mg/kg)												
Arsenic	0.6	2.4	0.584	4.9 ^{ABC}	11.1 ^{ABC}	4 ^{ABC}	7.9 ^{ABC}	10.2 ^{ABC}	3.6 ^{ABC}	4.2 ^{ABC}	5.4 ^{ABC}	4.3 ^{ABC}
Barium	15,300	100,000	164.8	54.4 ^{J+}	86.9 ^{J+}	42.3 ^{J+}	125 ^{J+}	92.4	21.9	76.8	86.4	32.3
Cadmium	70	799	0.752	0.21 ^J	0.082 ^J	0.22 ^J	0.17 ^J	0.3 ^J	0.11 ^J	0.1 ^J	0.33 ^J	0.19 ^J
Chromium	100,000	100,000	360	13.3	30.5	12.4	25	26.8	7.7	10.3	20.6	11.2
Copper	3,130	40,900	91.6	14.6	22.1	16.5	18.9	26.7	9.7	9.9	21.4	12.9
Lead	400	800	27	14.7	14.9	16.1	18.3	19.5	4.1	9.7	30.6 ^C	8.9
Mercury	3.13	3.13	0.208	0.027	0.039	0.029	0.043	0.03	0.008 ^J	0.0099 ^J	0.034	0.011
Nickel	1,550	19,800	13.1	13.1 ^C	27.6 ^C	11.1	21.3 ^C	22.2 ^C	7.9	7	17.1 ^C	11.6
Selenium	391	5,110	0.52	0.18 ^J	0.42 ^J	<0.17	0.65 ^J	0.62 ^{Jb}	0.33 ^{Jb}	0.29 ^{Jb}	0.78 ^{Jb}	0.47 ^{Jb}
Silver	391	5,110	0.85	<0.047	0.16 ^J	<0.046	<0.052	0.15 ^J	<0.045	0.13 ^J	0.06 ^J	<0.048
Zinc	23,500	100,000	--	NT	NT	NT	NT	NT	NT	NT	NT	NT

**Table 12d
CS6 Metals in Soil
Kenosha Engine Plant**

Sample locations are presented numerically

Parameters	Generic RCLs			GP-SL-70 (2-3) DUP 05/24/11	GP-SL-71 (2-3) 05/24/11	PZ-10 (1-3) 07/25/11	PZ-10 (1-3) FD 07/25/11	PZ-10 (23-25) 07/25/11	GP-611 (1-2) 07/28/11	GP-612 (1-2) 07/28/11	GP-613 (1-2) 07/27/11	GP-614 (1-2) 07/27/11
	Direct Contact Pathway		Groundwater Pathway									
	Non-Industrial	Industrial										
Metals (mg/kg)												
Arsenic	0.6	2.4	0.584	4 ^{ABC}	6.2 ^{ABC}	6.8 ^{ABC}	1.9 ^{ABC}	6.9 ^{ABC}	3.2 ^{ABC}	2.4 ^{ABC}	2.4 ^{ABC}	3.6 ^{ABC}
Barium	15,300	100,000	164.8	31.8	59.2	75.5	6.2	55.5	133	6.7	8.4 ^J	51.2
Cadmium	70	799	0.752	0.14 ^J	0.17 ^J	0.13 ^J	0.061 ^J	0.13 ^J	0.29 ^J	0.051 ^J	0.052 ^J	0.17 ^J
Chromium	100,000	100,000	360	11	15.4	23.5	6.1	18.6	13.7	5.2	4.5	12.1
Copper	3,130	40,900	91.6	13.5	14	20.9	3.3	23.1	8.3	6.1	6.2	8.8
Lead	400	800	27	10.2	13.1	16.9	1.3	9.8	58.4 ^C	2.4	2.4	22.4
Mercury	3.13	3.13	0.208	0.012	0.045	0.016	0.0067 ^J	0.015	0.11	0.0063 ^J	0.0071 ^J	0.024
Nickel	1,550	19,800	13.1	11	13.8 ^C	23 ^C	3.7	23.2 ^C	5.7	5.1	4.6	8.9
Selenium	391	5,110	0.52	0.28 ^{Jb}	0.54 ^{JbC}	<0.29	<0.28	<0.33	0.63 ^{Jc}	0.31 ^J	<0.28	<0.31
Silver	391	5,110	0.85	<0.044	<0.051	<0.087	<0.085	<0.099	<0.1	<0.078	<0.083	<0.091
Zinc	23,500	100,000	--	NT	NT	51.7	3.4 ^J	41.4	98.9	9.5	9.3	40.4

**Table 12d
CS6 Metals in Soil
Kenosha Engine Plant**

Sample locations are presented numerically

Parameters	Generic RCLs			GP-614 (1-2) FD 07/27/11	GP-615 (1-2) 07/27/11	GP-616 (1-2) 07/28/11	GP-617 (1-2) 07/28/11	GP-618 (1-2) 07/28/11	GP-619 (1-2) 07/28/11	GP-620 (1-2) 07/28/11
	Direct Contact Pathway		Groundwater Pathway							
	Non-Industrial	Industrial								
Metals (mg/kg)										
Arsenic	0.6	2.4	0.584	3.7 ^{ABC}	6.4 ^{ABC}	4.9 ^{ABC}	3.5 ^{ABC}	2 ^{ABC}	3.9 ^{ABC}	4.5 ^{ABC}
Barium	15,300	100,000	164.8	70.8	32.2	6.9	76.5	8.9	71.9	35.9
Cadmium	70	799	0.752	0.29 ^J	0.22 ^J	0.049 ^J	0.37 ^J	0.068 ^J	0.19 ^J	0.11 ^J
Chromium	100,000	100,000	360	13.8	10.4	5.2	16.7	5.6	13.6	15.4
Copper	3,130	40,900	91.6	10.8	16.8	2.5	13.4	3.5	17	14.3
Lead	400	800	27	34.8 ^C	12.3	2.8	41.6 ^C	3.1	24.7	7.7
Mercury	3.13	3.13	0.208	0.025	0.012	0.0099 ^J	0.044	0.009 ^J	0.018	0.011
Nickel	1,550	19,800	13.1	8.2	14.3 ^C	3.9	9.8	4.5	12.4	15.7 ^C
Selenium	391	5,110	0.52	0.41 ^J	<0.3	<0.29	0.48 ^J	<0.29	<0.27	0.47 ^J
Silver	391	5,110	0.85	<0.085	<0.088	<0.086	<0.087	<0.086	<0.081	<0.092
Zinc	23,500	100,000	--	81.3	60.1	4.6	74.4	7.2	34.6	34.7

Notes:

mg/kg = Milligrams per kilogram. ug/kg = Micrograms per kilogram.

NT = Not Tested

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

^b = Analyte was detected in the method blank.

^{+/-} = Value estimated due to matrix effect (⁺ = biased high) (⁻ = biased low).

-- = No generic RCL estab DUP/D/FD = Field duplicate.

Generic RCLs June 2014 per WDNR PUB-RR-890.

Table 12e
CS6 Polychlorinated Biphenyls in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-SL-11	GP-SL-13	GP-SL-69
	Direct Contact Pathway		Groundwater Pathway	(15-16)	(3-4)	(7-8)
	Non-Industrial	Industrial		05/16/11	5/17/2011	05/24/11
PCBs (µg/kg)						
Aroclor 1016	3930	21200	9.4	<27.9	<31.9	<31.3
Aroclor 1221	159	589	9.4	<27.9	<31.9	<31.3
Aroclor 1232	159	589	9.4	<27.9	<31.9	<31.3
Aroclor 1242	221	744	9.4	<27.9	<31.9	<31.3
Aroclor 1248	221	744	9.4	<27.9	<31.9	<31.3
Aroclor 1254	221	744	9.4	<27.9	<31.9	<31.3
Aroclor 1260	221	744	9.4	<27.9	<31.9	<31.3
PCB, Total	--	--	--	<27.9	<31.9	<31.3

Notes:

PCBs = Polychlorinated Biphenyls

mg/kg = Milligrams per kilogram. ug/kg = Micrograms per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

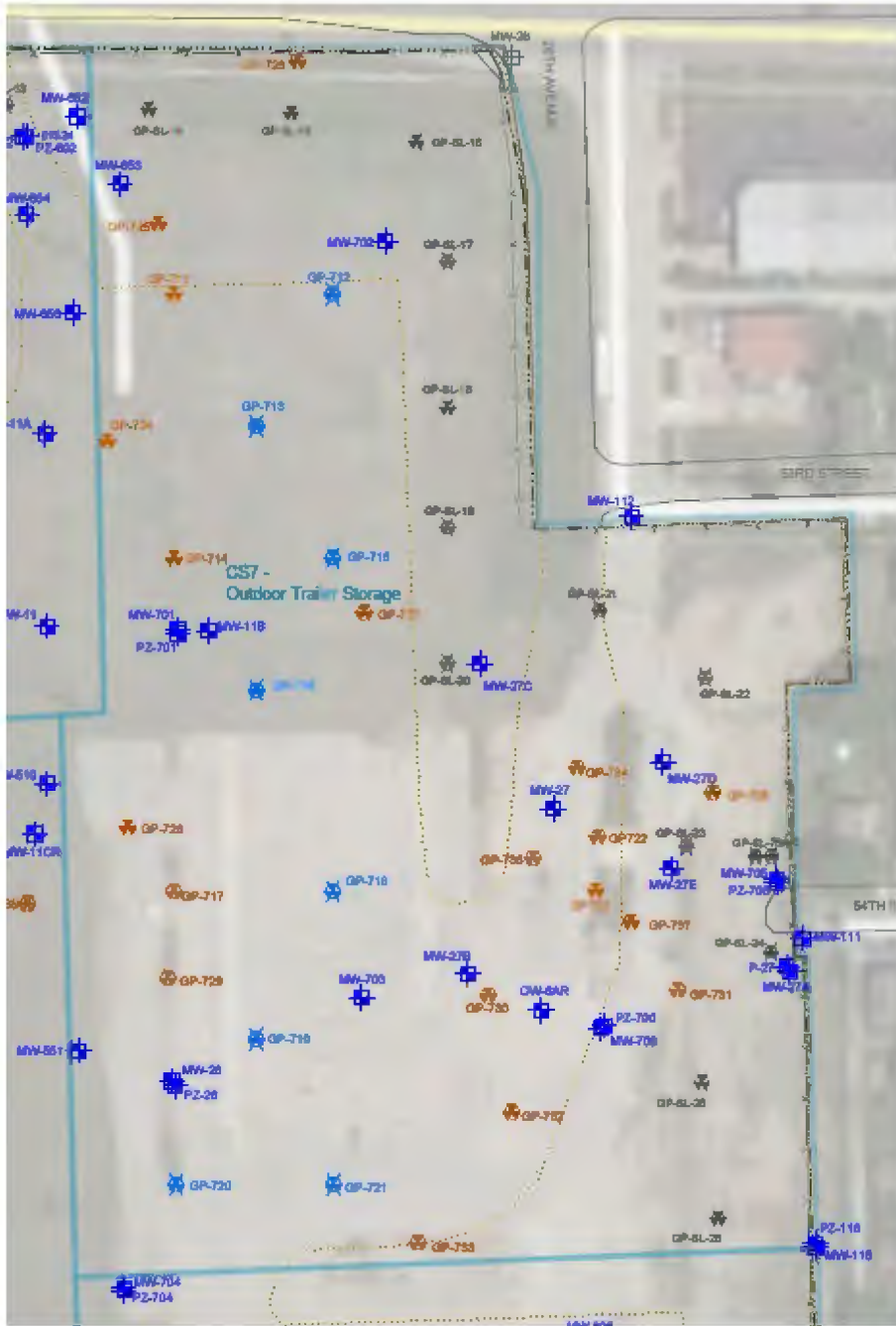
^C = Parameter exceeds Generic RCL for Groundwater Pathway.








^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

-- = No generic RCL established.

DUP/D/FD = Field duplicate.

Generic RCLs June 2014 per WDNR PUB-RR-890.



-  MW-XXX EXISTING WATER TABLE MONITORING WELL (MW) OR PIEZOMETER (PZ)
-  MW-XXX ABANDONED MONITORING WELL (MW) OR PIEZOMETER (PZ)
-  GP-XXX SOIL PROBE
-  GP-XXX SOIL PROBE - REFUSAL
-  GP-XXX SOIL PROBE / TEMPORARY MONITORING WELLS
-  GP-XXX PHASE II INVESTIGATION
-  GP-SL-XXX INTERIM INVESTIGATION


Kenosha Innovation Neighborhood	CS7 SOIL SAMPLE LOCATIONS FORMER KENOSHA ENGINE PLANT KENOSHA, WISCONSIN	 1555 N. RiverCenter Dr., Suite 214 Milwaukee, WI 53212 414-944-6080 www.aecom.com Copyright©2012, By: AECOM
City of Kenosha		
Project 60677460		
January 23, 2024		
		Figure CS7

Table 13a
CS7 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant I

Parameters	Generic RCLs			GP-SL-14	GP-SL-14	GP-SL-15	GP-SL-15	GP-SL-15	GP-SL-16	GP-SL-16	GP-SL-16	GP-SL-17	GP-SL-17	GP-SL-18	GP-SL-18
	Direct Contact Pathway		Groundwater Pathway	(2-3)	(22-23)	(2-3)	(2-3) D	(24-25)	(2-3)	(2-3) DUP	(28-29)	(2-3)	(27-28)	(2-3)	(29-30)
	Non-Industrial	Industrial		05/17/11	05/17/11	05/17/11	05/17/11	05/17/11	05/17/11	05/17/11	05/17/11	05/17/11	05/17/11	05/17/11	05/17/11
VOCs (µg/kg)															
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	47 ^J	59.9 ^J	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	31.2 ^J	33.6 ^J	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Chloroform	423	2,130	3.3	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	<25	<25	89.2	<25	<25	<25	<25	<25
n-Butylbenzene	108,000	108,000	----	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4
n-Propylbenzene	264,000	264,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<25	<25	215 ^C	268 ^C	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	47 ^{CJ}	63.1 ^{CJ}	<25	<25	<25	<25	<25	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4

Table 13a
CS7 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant I

Parameters	Generic RCLs			GP-SL-19	GP-SL-19	GP-SL-20	GP-SL-20	GP-SL-21	GP-SL-21	GP-SL-22	GP-SL-22	GP-SL-22	GP-SL-23	GP-SL-23	GP-SL-24
	Direct Contact Pathway		Groundwater	(0-1)	(29-30)	(2-3)	(29-30)	(2-3)	(21-22)	(2-3)	(26-27)	(30-31)	(2-3)	(14-15)	(2-3)
	Non-Industrial	Industrial	Pathway	05/17/11	05/17/11	05/17/11	05/17/11	05/17/11	05/17/11	05/17/11	05/18/11	05/18/11	05/18/11	05/18/11	05/18/11
VOCs (µg/kg)															
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	30.1 ^J	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Chloroform	423	2,130	3.3	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	39.3 ^J	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
n-Butylbenzene	108,000	108,000	----	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4
n-Propylbenzene	264,000	264,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	658 ^C	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4

Table 13a
CS7 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant I

Parameters	Generic RCLs			GP-SL-24	GP-SL-25	GP-SL-25	GP-SL-26	GP-SL-26	GP-SL-75	GP-SL-75	GP-711	GP-711	GP-712	GP-712	GP-712	
	Direct Contact Pathway		Groundwater Pathway	(24-25)	(2-3)	(22-23)	(1-2)	(25-26)	(2-3)	(22-23)	(5-6)	(7.5-8.5)	(2-3)	(25-27)	(25-27) FD	
	Non-Industrial	Industrial		05/18/11	05/18/11	05/18/11	05/18/11	05/18/11	05/26/11	05/26/11	10/04/11	10/04/11	10/05/11	10/05/11	10/05/11	
VOCs (µg/kg)																
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Chloroform	423	2,130	3.3	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<25	<25	524^C	38.5^J	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
n-Butylbenzene	108,000	108,000	----	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4
n-Propylbenzene	264,000	264,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	44.7^J	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	<25	<25	<25	54.3^{JC}	54^{JC}	<25	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<75	<75	<75	<75	<75	<75

Table 13a
CS7 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant I

Parameters	Generic RCLs			GP-713	GP-713	GP-714	GP-714	GP-715	GP-715	GP-716	GP-716	GP-717	GP-717	GP-718	GP-718
	Direct Contact Pathway		Groundwater Pathway	(2-3)	(26-27)	(3-4)	(7.5-8.5)	(1-2)	(25-26)	(6-7)	(24.5-25.5)	(1-2)	(3.5-4.5)	(4-5)	(18.5-19.5)
	Non-Industrial	Industrial		10/05/11	10/05/11	10/04/11	10/04/11	10/04/11	10/04/11	10/04/11	10/04/11	10/04/11	10/04/11	10/04/11	10/04/11
VOCs (µg/kg)															
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	500^C	189^C	<25	<25	<25	<25	77.5	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	243	72.3^J	<25	<25	<25	<25	<25.8	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	93.2	<25	<25	<25	274	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	80.7	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25.8	<25	<25	<25
Chloroform	423	2,130	3.3	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	58.7^{JC}	<25	<25	<25	<25	<25	<25.8	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	83.1	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	<25	<25	<25	<25	<25	61.1 ^J	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	31.7^{JC}	<25	<25	<25	<25	<25	<25	<25.8	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	1,840^C	<25	<25	<25	222	<25	<25	<25
n-Butylbenzene	108,000	108,000	----	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	58.5 ^J	<40.4	<40.4	<40.4
n-Propylbenzene	264,000	264,000	----	<25	<25	<25	<25	<25	<25	<25	<25	91.6	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	<25	<25	<25	<25	<25	35.2 ^J	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	<25	<25	<25	<25	<25	42.9 ^J	<25	<25	<25
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<25	<25	661^C	254^C	<25	<25	<25	<25	<25.8	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	56.5^J	<25	<25	<25	208	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25.8	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	<25	<25	<25	<25	<25.8	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25.8	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<75	<75	<75	<75	<75	687	<75	<75	<75

Table 13a
CS7 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant I

Parameters	Generic RCLs			GP-719	GP-719	GP-720	GP-720	GP-721	GP-721	GP-721	GP-722	GP-722	GP-723	GP-723	GP-724
	Direct Contact Pathway		Groundwater Pathway	(6-7)	(21.5-22.5)	(7-8)	(17.5-18.5)	(4-6)	(4-6) FD	(23-24)	(1-3)	(6-7)	(1-3)	(7.5-8.5)	(3-4)
	Non-Industrial	Industrial		10/03/11	10/03/11	10/03/11	10/03/11	10/03/11	10/03/11	10/03/11	10/03/11	10/03/11	10/03/11	10/03/11	10/03/11
VOCs (µg/kg)															
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Chloroform	423	2,130	3.3	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<46.4
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	129^{bc}	<25	<25	<25	125^{bc}	161^{bc}	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	<25	<25	<25	140	<25	<25	<25	<40
n-Butylbenzene	108,000	108,000	----	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<25
n-Propylbenzene	264,000	264,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	1,080^c	<25	<25	<25	<25	<25	<25	<25	225^c	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75

Table 13a
CS7 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant I

Parameters	Generic RCLs			GP-724	GP-725	GP-725	GP-726	GP-726	GP-727	GP-727	GP-728	GP-728	GP-729	GP-729
	Direct Contact Pathway		Groundwater Pathway	(9-10)	(3-4)	(5-6)	(2.5-3.5)	(8-9)	(2-4)	(7-8)	(2-3)	(7-8)	(3-4)	(10-11)
	Non-Industrial	Industrial		04/23/14	04/23/14	04/23/14	04/23/14	04/23/14	04/23/14	04/23/14	04/24/14	04/24/14	04/24/14	04/24/14
VOCs (µg/kg)														
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<500	<25	<25	<25	<25	525 ^C	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<500	<25	<25	<25	<25	904 ^C	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	784	654 ^J	<25	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	188	<500	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	141 ^C	<500	<25	<25	<25	<25	<25	<25	<25	<25
Chloroform	423	2,130	3.3	<46.4	<46.4	1,160 ^{JAC}	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<500	<25	<25	<25	<25	308 ^C	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	887	2,700 ^C	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	1,250	24,000	<25	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<500	<25	<25	<25	60.9 ^U	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<40	2,250 ^C	21,100 ^{AC}	<40	<40	<40	<40	<40	<40	<40	<40
n-Butylbenzene	108,000	108,000	----	<25	1,910	28,100	<25	<25	<25	<25	<25	<25	<25	<25
n-Propylbenzene	264,000	264,000	----	<25	5,060	90,000	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	----	<25	162	1,580	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	<25	728	10,700	<25	<25	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	----	<25	166	2,190	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<25	<25	<500	<25	<25	<25	<25	<25	<25	<25	33.2 ^{JC}
Toluene	818,000	818,000	1107.2	<25	214	703 ^J	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<500	<25	<25	<25	<25	43.2 ^J	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<500	<25	<25	<25	<25	978 ^C	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<500	<25	<25	<25	<25	39.1 ^{JC}	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<75	1,011	<1,900 ^J	<75	<75	<75	<75	<75	<75	<75	<75

Table 13a
CS7 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant I

Parameters	Generic RCLs			GP-730	GP-730	GP-730	GP-731	GP-731	GP-732	GP-732	GP-733	GP-733	GP-734	GP-734	GP-735
	Direct Contact Pathway		Groundwater Pathway	(2-3)	(4-5)	(9-10)	(2-3)	(11-12)	(2-3)	(6-7)	(3-4)	(7-8)	(2-3.5)	(7-8)	(3-4)
	Non-Industrial	Industrial		04/23/14	04/23/14	04/23/14	04/23/14	04/23/14	04/23/14	04/24/14	04/24/14	04/24/14	04/24/14	04/24/14	04/24/14
VOCs (µg/kg)															
1,1,1-Trichloroethane	640,000	640,000	140.2	<250	<25	<1,000	<25	<25	60.1 ^J	225 ^C	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<250	<25	<1,000	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	1,860 ^C	<25	<1,000	<25	<25	37.5 ^J	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	1,300	<25	<1,000	<25	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<250	<25	<1,000	<25	<25	38.4 ^{JC}	<25	<25	<25	<25	<25	<25
Chloroform	423	2,130	3.3	<464	<46.4	<1,860	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	2,980 ^C	<25	<1,000	<25	<25	<25	<25	33.9 ^J	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<250	<25	<1,000	<25	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<250	<25	<1,000	<25	<25	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<250	<25	<1,000	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	2,370 ^{JC}	<40	<1,600	<40	<40	93.2 ^J	<40	173 ^J	<40	<40	<40	<40
n-Butylbenzene	108,000	108,000	----	<250	<25	<1,000	<25	<25	<25	<25	<25	<25	<25	<25	<25
n-Propylbenzene	264,000	264,000	----	<250	<25	<1,000	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	----	722 ^J	<25	<1,000	<25	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	1170	<25	<1,000	<25	<25	<25	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	----	<250	<25	<1,000	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<250	33.6 ^{JC}	<1,000	<25	<25	79.4 ^C	82.1 ^C	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<250	<25	<1,000	<25	<25	123	55.9 ^J	35.2 ^J	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<250	<25	<1,000	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	42,600 ^{ABC}	4,320 ^{AC}	105,000 ^{ABC}	<25	<25	415 ^C	382 ^C	173 ^C	<25	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<250	<25	<1,000	<25	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<2,870	<75	<3,000	<75	<75	163.9 ^J	<75	<75	<75	<75	<75	<75

Table 13a
CS7 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant I

Parameters	Generic RCLs			GP-735	GP-736	GP-736	GP-736	GP-737	GP-737
	Direct Contact Pathway		Groundwater Pathway	(11-12)	(3-4)	(7-8)	(10-11)	(3-4)	(8-9)
	Non-Industrial	Industrial		04/23/14	04/24/14	04/24/14	04/24/14	04/24/14	04/24/14
VOCs (µg/kg)									
1,1,1-Trichloroethane	640,000	640,000	140.2	214 ^C	<25	<25	<100	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<100	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<100	33.2 ^J	183
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<100	<25	133
Benzene	1,490	7,410	5.1	<25	<25	<25	<100	2,030 ^{AC}	177 ^C
Chloroform	423	2,130	3.3	<46.4	<46.4	<46.4	<186	<46.4	<46.4
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<100	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	29.8 ^J	140	421	296	682
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	62.9 ^J	315	1,500	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<100	<25	<25
Naphthalene	5,150	26,000	658.7	<40	<40	91.2 ^J	558 ^J	<40	<40
n-Butylbenzene	108,000	108,000	----	<25	<25	139	852	<25	<25
n-Propylbenzene	264,000	264,000	----	<25	73.5	391	2,000	<25	<25
p-Isopropyltoluene	162,000	162,000	----	<25	<25	38.6 ^J	154 ^J	<25	<25
sec-Butylbenzene	145,000	145,000	----	<25	35.9 ^J	178	1,000	<25	<25
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25	<100	<25	<25
Tetrachloroethene	30,700	153,000	5	<25	<25	<25	<100	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<100	425	168
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<100	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<100	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<100	<25	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<300	729	2,803

Notes:

mg/kg = Milligrams per kilogram. µg/kg = Micrograms per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

^D = Analyte was detected in the method blank.

^U = Not detected, detection limit elevated based on lab QC; see data validation memo.

-- = No generic RCL established.

Generic RC DUP/D/FD = Field duplicate.

Table 13b
CS7 Detected Volatile Organic Compounds in Soil from Monitoring Well and Piezometer Locations
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-26 (2-3) 10/03/11	PZ-26 (7-8) 10/03/11	PZ-26 (19-20) 10/03/11	MW-111 5-6' 12/02/10	MW-112 6-7' 12/02/10	PZ-117 (3-4) 05/01/14	PZ-117 (8-9) 05/01/14	PZ-117 (21-22) 05/01/14	PZ-700 (1-2) 10/03/11	PZ-700 (7.5-8.5) 10/03/11	PZ-700 (23-24) 10/03/11	PZ-701 (3-4) 04/23/14	PZ-701 (6-7) 04/23/14
	Direct Contact Pathway		Groundwater Pathway													
	Non-Industrial	Industrial														
VOCs (µg/kg)																
1,1,1-Trichloroethane	640,000	640,000	140.2	41.7 ^J	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	43.2 ^{JC}	<25	28.8 ^{JC}	<25
Chloroform	423	2,130	3.3	<25	<25	<25	<25	<25	<46.4	<46.4	<46.4	<25	<25	<25	<46.4	<46.4
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	<25	<40	<40	<40	<25	<25	<25	3,970 ^C	<40
n-Butylbenzene	108,000	108,000	--	<40.4	<40.4	<40.4	<40.4	<40.4	<25	<25	<25	<40.4	<40.4	<40.4	<25	<25
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	81.2	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	102 ^C	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	38.4 ^{JC}	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940.0	<75	<75	<75	<75	<75	<75	<75	<75	<75	90.4 ^J	<75	<75	<75

Table 13b
CS7 Detected Volatile Organic Compounds in Soil from Monitoring Well and Piezometer Locations
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-701	MW-702	MW-702	MW-703	MW-703	PZ-704	PZ-704	PZ-704	PZ-704	PZ-705	PZ-705	PZ-705	PZ-705
	Direct Contact Pathway		Groundwater Pathway	(18-19)	(3-4)	(14-15)	(3-4)	(6-7)	(3-4)	(6-7)	(19-20)	(19-20) FD	(2-3)	(6-7)	(17.5-18.5)	(17.5-18.5) FD
	Non-Industrial	Industrial		04/23/14	04/24/14	04/24/14	04/22/14	04/22/14	04/22/14	04/22/14	04/22/14	04/22/14	04/22/14	04/23/14	04/23/14	04/23/14
VOCs (µg/kg)																
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Chloroform	423	2,130	3.3	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
n-Butylbenzene	108,000	108,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940.0	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75

Notes:

VOCs = Volatile Organic Compounds

mg/kg = Milligrams per kilogram. ug/kg = Micrograms per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

-- = No gene DUP/D/FD = Field duplicate.

Generic RCLs June 2014 per WDNR PUB-RR-890.

Table 13c
CS7 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-SL-14	GP-SL-15	GP-SL-15	GP-SL-16	GP-SL-16	GP-SL-17	GP-SL-18	GP-SL-19	GP-SL-20	GP-SL-21	GP-SL-22
	Direct Contact Pathway		Groundwater Pathway	(2-3)	(2-3)	(2-3) D	(2-3)	(2-3) D	(2-3)	(2-3)	(0-1)	(2-3)	(2-3)	(2-3)
	Non-Industrial	Industrial		05/17/11	05/17/11	05/17/11	05/17/11	05/17/11	05/17/11	05/17/11	05/17/11	05/17/11	05/17/11	05/18/11
PAHs (µg/kg)														
1-Methylnaphthalene	15,600	53,100	23,000	19.6 ^J	7.2 ^J	11 ^J	6.2 ^J	<3	<3.1	<2.9	<3.2	<2.9	<3	<2.9
2-Methylnaphthalene	229,000	2,200,000	20,000	21.1 ^J	8.6 ^J	13.1 ^J	8.6 ^J	<3	<3.1	<2.9	<3.2	3.4 ^J	<3	<2.9
Acenaphthene	3,440,000	33,000,000	38,000	<3.3	<2.7	4.3 ^J	14.8 ^J	<2.7	<2.8	<2.7	<2.9	<2.7	<2.8	<2.7
Acenaphthylene	18,000	360,000	700	4.8 ^J	4.5 ^J	3.2 ^J	4.4 ^J	<3.1	<3.2	<3	<3.3	<3.1	<3.2	<3
Anthracene	17,200,000	100,000,000	197,727.3	16.8 ^J	11.5 ^J	13.6 ^J	48.5	<4.5	<4.7	<4.4	<4.8	5.1 ^J	<4.6	<4.4
Benzo(a)anthracene	148	2,110	17,000	37.3	35	42.5	65.1	4.5 ^J	<2.9	<2.7	13.4 ^J	34.2	<2.8	<2.7
Benzo(a)pyrene	15	211	470	32.9 ^A	33.8 ^A	36.6 ^A	54 ^A	<3.2	<3.3	<3.1	12.9 ^{JA}	48.6 ^A	<3.2	<3.1
Benzo(b)fluoranthene	148	2,110	479.3	34	35.7	43.2	47.4	4.3 ^J	<3.5	<3.3	16.5 ^J	49.6	<3.4	<3.3
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	26.1	17.5 ^J	22.9	32.4	<2.6	<2.7	<2.5	11.6 ^J	45.1	<2.6	<2.5
Benzo(k)fluoranthene	1,480	21,100	870,000	33.6	32.6	27.6	53.5	<3.6	<3.7	<3.5	14.9 ^J	39.3	<3.7	<3.5
Chrysene	14,800	211,000	144.6	52	47.5	57.8	66	4.8 ^J	<3.7	<3.5	18.6 ^J	40.2	<3.6	<3.5
Dibenz(a,h)anthracene	15	211	38,000	7.7 ^J	6.2 ^J	7.1 ^J	10.6 ^J	<5.3	<5.5	<5.2	<5.7	11.7 ^J	<5.4	<5.2
Fluoranthene	2,290,000	22,000,000	88,877.8	89.1	70.4	76.2	166	<9.7	<10.1	<9.5	30.1	55.7	<9.9	<9.5
Fluorene	2,290,000	22,000,000	14,802.7	6.6 ^J	<4.8	5.1 ^J	23.2	<4.8	<5	<4.7	<5.2	<4.8	<4.9	<4.7
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	19.3 ^J	15.3 ^J	17.4 ^J	28.1	<2.8	<2.9	<2.7	8.9 ^J	33.2	<2.8	<2.7
Naphthalene	5,150	26,000	658.2	41.1	8.2 ^J	12.8 ^J	18.1 ^J	4.8 ^J	<3.5	<3.3	<3.6	3.4 ^J	34.2	<3.3
Phenanthrene	18,000	390,000	1,800	75.6	56.6	88	165	9 ^J	<4.4	<4.2	14.7 ^J	20.7	<4.4	<4.2
Pyrene	1,720,000	16,500,000	54,132.2	89.5	70.8	97.2	137	7.5 ^J	<3.7	<3.5	24.8	43.7	<3.6	<3.5
Diesel Range Organics (mg/kg)	--	--	--	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

Table 13c
CS7 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-SL-23	GP-SL-24	GP-SL-25	GP-SL-26	GP-SL-75	PZ-26	MW-111	MW-112	PZ-117	PZ-700	PZ-700
	Direct Contact Pathway		Groundwater Pathway	(2-3)	(2-3)	(2-3)	(1-2)	(2-3)	(2-3)	5-6'	5-6'	(3-4)	(1-2)	(7.5-8.5)
	Non-Industrial	Industrial		05/18/11	05/18/11	05/18/11	05/18/11	05/26/11	10/03/11	12/02/10	12/02/10	05/01/14	10/03/11	10/03/11
PAHs (µg/kg)														
1-Methylnaphthalene	15,600	53,100	23,000	<3	<3	<3	<2.9	3.7	270	<2.8	7.7 ^J	<9.2	3.3 ^J	<3
2-Methylnaphthalene	229,000	2,200,000	20,000	<3	<3	<3	<2.9	5.5	287	<2.8	9.9 ^J	<9.2	4.8 ^J	<3
Acenaphthene	3,440,000	33,000,000	38,000	<2.7	<2.8	<2.8	<2.7	<2.8	27.1	<2.6	<2.5	<9.2	<2.5	<2.8
Acenaphthylene	18,000	360,000	700	<3.1	<3.1	<3.2	<3	<3.1	48.5	<3.0	<2.8	<8.3	<2.8	<3.2
Anthracene	17,200,000	100,000,000	197,727.3	<4.5	<4.6	<4.6	<4.5	<4.6	58.8	<4.3	<4.2	<9.6	5.6 ^J	<4.6
Benzo(a)anthracene	148	2,110	17,000	<2.8	<2.8	<2.8	<2.7	3.8	78.1	<2.6	<2.5	<6.4	21.8	<2.8
Benzo(a)pyrene	15	211	470	<3.2	<3.2	<3.2	<3.1	3.5	59 ^A	<3.0	<2.9	<6.6	23.8 ^A	<3.2
Benzo(b)fluoranthene	148	2,110	479.3	<3.4	<3.4	<3.4	6.6 ^J	<3.4	88.9 ^b	10.1 ^{Jb}	10.3 ^{Jb}	<9.2	36.7	7.1 ^J
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	<2.6	<2.6	<2.6	<2.5	<2.6	19.2 ^J	<2.4	3.1 ^J	<7	13.6 ^J	<2.6
Benzo(k)fluoranthene	1,480	21,100	870,000	<3.6	<3.6	<3.7	<3.6	<3.7	53.6	<3.4	<3.3	<10.2	23.8	<3.7
Chrysene	14,800	211,000	144.6	<3.5	<3.6	<3.6	6 ^J	4.5	94.3	3.6 ^J	6.0 ^J	<8.5	27.2	<3.6
Dibenz(a,h)anthracene	15	211	38,000	<5.3	<5.3	<5.4	<5.2	<5.4	15.3 ^{JbA}	<5.0	<4.9	<6.8	11.5 ^J	7.9 ^J
Fluoranthene	2,290,000	22,000,000	88,877.8	<9.8	<9.8	<9.9	<9.6	<9.9	142	<9.3	<8.9	<9.2	42.9	<9.9
Fluorene	2,290,000	22,000,000	14,802.7	<4.9	<4.9	<4.9	<4.8	<4.9	14.8 ^J	<4.6	<4.4	<9.2	<4.4	<4.9
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	<2.8	<2.8	<2.8	<2.7	<2.8	17.2 ^J	<2.6	<2.5	<7	12 ^J	<2.8
Naphthalene	5,150	26,000	658.2	<3.4	<3.4	<3.5	<3.3	4.8	159	5.9 ^J	16.3 ^J	<9.2	9.1 ^J	<3.5
Phenanthrene	18,000	390,000	1,800	<4.3	<4.3	<4.4	6 ^J	6.6	539	<4.1	<3.9	<9.2	22.4	<4.4
Pyrene	1,720,000	16,500,000	54,132.2	<3.6	<3.6	<3.6	5.6	6.3	158	<3.4	3.3 ^J	<9.2	33.6	<3.6
Diesel Range Organics (mg/kg)	--	--	--	NT	NT	NT	NT	NT	47.2	19.2	8.2	NT	22.9	1.2 ^J

Table 13c
CS7 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-701	MW-702	MW-703	PZ-704	PZ-705	GP-711	GP-712	GP-712	GP-712	GP-713	GP-713
	Direct Contact Pathway		Groundwater	(3-4)	(3-4)	(3-4)	(3-4)	(2-3)	(7.5-8.5)	(2-3)	(25-27)	(25-27) FD	(2-3)	(26-27)
	Non-Industrial	Industrial	Pathway	04/23/14	04/24/14	04/22/14	04/22/14	04/23/14	10/04/11	10/05/11	10/05/11	10/05/11	10/05/11	10/05/11
PAHs (µg/kg)														
1-Methylnaphthalene	15,600	53,100	23,000	<362	<9.9	119	40.1	14 ^J	<3	<66.3	<2.9	<3.1	<2.7	<3
2-Methylnaphthalene	229,000	2,200,000	20,000	<362	<9.9	144	58.2	16.6 ^J	<3	<66.3	<2.9	<3.1	<2.7	<3
Acenaphthene	3,440,000	33,000,000	38,000	477 ^J	<9.9	<10.2	<9.4	<10.1	<2.8	91.9 ^J	<2.7	<2.8	<2.4	<2.8
Acenaphthylene	18,000	360,000	700	580 ^J	<8.8	<9.1	21	<9	<3.2	<69.1	<3	<3.2	4.3 ^J	<3.1
Anthracene	17,200,000	100,000,000	197,727.3	2,200	17.1 ^J	<10.5	46.9	18.2 ^J	<4.6	944	<4.4	<4.7	22.8	<4.6
Benzo(a)anthracene	148	2,110	17,000	4,530 ^{AB}	50.7	13 ^J	88.4	69.6	8.5 ^J	5,000 ^{AB}	<2.7	<2.9	56.5	<2.8
Benzo(a)pyrene	15	211	470	4,150 ^{ABC}	52.3 ^A	9.1 ^J	97.1 ^A	72.2 ^A	12.5 ^J	7,340 ^{ABC}	<3.1	<3.3	57.7 ^A	<3.2
Benzo(b)fluoranthene	148	2,110	479.3	3,480 ^{ABC}	39.5	<10.2	126	69.8	18.4 ^J	7,710 ^{ABCb}	7.7 ^{Jb}	6.1 ^{Jb}	49.5 ^b	6.3 ^{Jb}
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	2,280 ^A	27.6	<7.7	55.3	48.7	12 ^J	2,950 ^A	<2.5	<2.7	32.1	<2.6
Benzo(k)fluoranthene	1,480	21,100	870,000	4,050 ^A	51.1	<11.2	94.1	73.6	9.2 ^J	5,160 ^A	<3.5	<3.8	52.7	<3.7
Chrysene	14,800	211,000	144.6	4,720 ^C	57.4	16.8 ^J	121	83	13.2 ^J	5780 ^C	<3.5	<3.7	59.1	<3.6
Dibenz(a,h)anthracene	15	211	38,000	842 ^{AB}	7.7 ^J	<7.5	20.9 ^A	16.9 ^{JA}	10.6 ^J	1,200 ^{AB}	8 ^J	8.1 ^J	17 ^{JA}	7.9 ^J
Fluoranthene	2,290,000	22,000,000	88,877.8	11,400	121	20.1 ^J	195	164	12.1 ^J	12,000	<9.5	<10.1	136	<9.9
Fluorene	2,290,000	22,000,000	14,802.7	933	<9.9	<10.2	<9.4	<10.1	<5	185 ^J	<4.8	<5	<4.3	<4.9
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	2,180 ^{AB}	24	<7.7	53.7	45	7.6 ^J	2,820 ^{AB}	<2.7	<2.9	34.5	<2.8
Naphthalene	5,150	26,000	658.2	534 ^J	10.6 ^J	58.4	34	12 ^J	<3.5	<76	<3.3	<3.5	<3	<3.5
Phenanthrene	18,000	390,000	1,800	7,700 ^C	66.6	105	144	92.8	<4.4	3,440 ^C	<4.2	<4.5	60.8	<4.3
Pyrene	1,720,000	16,500,000	54,132.2	8,780	110	24.2	165	133	12.2 ^J	9,140	<3.5	<3.7	110	<3.6
Diesel Range Organics (mg/kg)	--	--	--	NT	12.1 ^J	NT	NT	NT	9.8	456	4.3	3.8	1.4 ^J	7.5

Table 13c
CS7 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-714	GP-714	GP-715	GP-715	GP716	GP-716	GP-717	GP-717	GP-718	GP718	GP-719
	Direct Contact Pathway		Groundwater	(3-4)	(7.5-8.5)	(1-2)	(25-26)	(6-7)	(24.5-25.5)	(1-2)	(3.5-4.5)	(4-5)	(18.5-19.5)	(6-7)
	Non-Industrial	Industrial	Pathway	10/04/11	10/04/11	10/04/11	10/04/11	10/04/11	10/04/11	10/04/11	10/04/11	10/04/11	10/04/11	10/03/11
PAHs (µg/kg)														
1-Methylnaphthalene	15,600	53,100	23,000	7.4 ^J	<3.3	<366	<3.1	<3	<3	565	13 ^J	<2.9	<3	23.4 ^J
2-Methylnaphthalene	229,000	2,200,000	20,000	6 ^J	<3.3	400 ^J	<3.1	<3	<3	690	16.8 ^J	<2.9	<3	46.3
Acenaphthene	3,440,000	33,000,000	38,000	<2.9	<3.1	2,040 ^J	<2.8	<2.7	<2.8	44.2	<2.7	<2.7	<2.8	5.6 ^J
Acenaphthylene	18,000	360,000	700	4.1 ^J	<3.5	<382	<3.2	<3.1	<3.1	259	<3	<3.1	<3.1	5.9 ^J
Anthracene	17,200,000	100,000,000	197,727.3	6.7 ^J	<5.1	4,800	<4.7	<4.5	<4.6	292	<4.4	<4.5	<4.6	13.5 ^J
Benzo(a)anthracene	148	2,110	17,000	20.7	<3.1	6,560 ^{AB}	<2.9	<2.8	<2.8	427 ^A	6.8 ^J	<2.7	<2.8	12.4 ^J
Benzo(a)pyrene	15	211	470	19.3 ^{JA}	<3.6	6,190 ^{ABC}	<3.3	<3.2	<3.2	466 ^{AB}	6.4 ^J	<3.2	<3.2	6.8 ^J
Benzo(b)fluoranthene	148	2,110	479.3	24.8 ^b	6.6 ^{Jb}	6,360 ^{ABC}	5.7 ^{Jb}	5.8 ^{Jb}	5.9 ^{Jb}	748 ^{Ab}	11 ^{Jb}	6.1 ^{Jb}	5.8 ^{Jb}	19.8 ^J
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	15.3 ^J	<2.9	3,960 ^A	<2.7	<2.6	<2.6	194	4.1 ^J	<2.5	<2.6	9.2 ^J
Benzo(k)fluoranthene	1,480	21,100	870,000	14.7 ^J	<4	5,130 ^A	<3.7	<3.6	<3.7	541	5.1 ^J	<3.6	<3.7	7.8 ^J
Chrysene	14,800	211,000	144.6	23.3	<3.9	6,780 ^C	<3.7	<3.5	<3.6	571 ^C	7.2 ^J	<3.5	<3.6	33.3
Dibenz(a,h)anthracene	15	211	38,000	11.7 ^{Jb}	8.6 ^{Jb}	2,110 ^{JAB}	<5.5	7.8 ^{Jb}	7.9 ^{Jb}	100 ^{bA}	<5.2 ^J	7.7 ^{Jb}	7.9 ^{Jb}	11.8 ^J
Fluoranthene	2,290,000	22,000,000	88,877.8	34.7	<10.9	21,600	<10.1	<9.7	<9.9	664	9.7 ^J	<9.6	<9.9	33
Fluorene	2,290,000	22,000,000	14,802.7	<5.1	<5.4	2,910	<5	<4.8	<4.9	38.1 ^J	<4.7	<4.8	<4.9	<6.2
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	11.2 ^J	<3.1	3,350 ^{AB}	<2.9	<2.8	<2.8	198 ^A	3.2 ^J	<2.7	<2.8	5.8 ^J
Naphthalene	5,150	26,000	658.2	5.2 ^J	<3.8	733 ^{JC}	<3.5	<3.4	<3.5	408	13 ^J	<3.4	<3.5	17.8 ^J
Phenanthrene	18,000	390,000	1,800	28.5	<4.8	20,200 ^{AC}	<4.4	<4.3	<4.3	872	15.8 ^J	<4.2	<4.3	55.4
Pyrene	1,720,000	16,500,000	54,132.2	36.8	<4	15,500	<3.7	<3.6	<3.6	659	11.1 ^J	<3.5	<3.6	27
Diesel Range Organics (mg/kg)	--	--	--	38.9	<1.2	1,430	1.5 ^J	6.5	9.2	62	3.4	<1.1	8.8	34.9

Table 13c
CS7 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-719 (21.5-22.5) 10/03/11	GP-720 (7-8) 10/03/11	GP-720 (17.5-18.5) 10/03/11	GP-721 (4-6) 10/03/11	GP721 (4-6) FD 10/03/11	GP-721 (23-24) 10/03/11	GP-722 (1-3) 10/03/11	GP-722 (6-7) 10/03/11	GP-723 (1-3) 10/03/11	GP-723 (7.5-8.5) 10/03/11
	Direct Contact Pathway		Groundwater Pathway										
	Non-Industrial	Industrial											
PAHs (µg/kg)													
1-Methylnaphthalene	15,600	53,100	23,000	<2.9	<2.9	<3	3.4 ^J	14 ^J	<3	<181	3.4 ^J	<52.4	<2.7
2-Methylnaphthalene	229,000	2,200,000	20,000	<2.9	<2.9	3.7 ^J	<2.8	14.9 ^J	<3	<181	3.2 ^J	<52.4	<2.7
Acenaphthene	3,440,000	33,000,000	38,000	<2.7	<2.7	<2.8	<2.6	9.2 ^J	<2.8	1,080 ^J	34.1	<48.3	<2.5
Acenaphthylene	18,000	360,000	700	<3.1	<3.1	<3.2	<3	6.3 ^J	<3.1	<189	<3	<54.7	<2.9
Anthracene	17,200,000	100,000,000	197,727.3	<4.5	<4.5	<4.6	6.1 ^J	33.8	<4.6	2,560	84.6	247 ^J	<4.2
Benzo(a)anthracene	148	2,110	17,000	<2.7	<2.7	<2.8	11.8 ^J	52.1	<2.8	4,340 ^{AB}	158 ^A	1,100 ^A	<2.6
Benzo(a)pyrene	15	211	470	<3.2	<3.1	<3.3	13.3 ^J	59.7 ^A	<3.2	4,530 ^{ABC}	167 ^A	1,580 ^{ABC}	<2.9
Benzo(b)fluoranthene	148	2,110	479.3	5.7 ^{Jb}	5.8 ^J	5.9 ^J	19.1	51.3	5.8 ^J	5,280 ^{ABC}	177 ^A	1,630 ^{ACb}	6.8 ^J
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	<2.5	<2.5	<2.6	7.2 ^J	24.3	<2.6	1,940 ^A	61.4	913	<2.4
Benzo(k)fluoranthene	1,480	21,100	870,000	<3.6	<3.6	<3.7	9.5 ^J	53.1	<3.7	3,760 ^A	156	1,270 ^A	<3.3
Chrysene	14,800	211,000	144.6	<3.5	<3.5	<3.6	12.8 ^J	55.3	<3.6	4,880 ^C	177 ^C	1,290 ^C	<3.3
Dibenz(a,h)anthracene	15	211	38,000	7.7 ^{Jb}	7.7 ^J	8 ^J	9.7 ^J	16.4 ^{JA}	7.9 ^J	1,190 ^{AB}	29.9 ^A	439 ^{AB}	7.5 ^J
Fluoranthene	2,290,000	22,000,000	88,877.8	<9.6	<9.6	<10	18.4 ^J	112	<9.9	14,800	596	2,760	<9
Fluorene	2,290,000	22,000,000	14,802.7	<4.8	<4.8	<5	<4.6	12.5 ^J	<4.9	1,180 ^J	33.7	<85.4	<4.5
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	<2.7	<2.7	<2.8	5.7 ^J	21.1	<2.8	1,890 ^A	58.9	817 ^A	<2.6
Naphthalene	5,150	26,000	658.2	<3.4	<3.4	<3.5	<3.3	17.8 ^J	<3.5	<208	<3.3	<60.1	<3.1
Phenanthrene	18,000	390,000	1,800	<4.2	<4.2	<4.4	23.4	155	<4.3	7,050 ^C	236	798	<3.9
Pyrene	1,720,000	16,500,000	54,132.2	<3.5	<3.5	<3.7	19.7	116	<3.6	10,300	421	2,230	<3.3
Diesel Range Organics (mg/kg)	--	--	--	8.5	<0.97	11.2	20.8	19.1	10.9	1,040	17.3	210	9.1

Table 13c
CS7 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-724	GP-725	GP-726	GP-727	GP-728	GP-734	GP-735	GP-736	GP-737
	Direct Contact Pathway		Groundwater Pathway	(3-4)	(3-4)	(2.5-3.5)	(2-4)	(2-3)	(2-3.5)	(3-4)	(3-4)	(3-4)
	Non-Industrial	Industrial		04/23/14	04/23/14	04/23/14	04/23/14	04/24/14	04/24/14	04/23/14	04/24/14	04/24/14
PAHs (µg/kg)												
1-Methylnaphthalene	15,600	53,100	23,000	<10.9	68.2	<10.8	<214	30.6	16.8 ^J	14.3 ^J	36.6	59.8
2-Methylnaphthalene	229,000	2,200,000	20,000	<10.9	54.7	<10.8	<214	30.2	26.9	20.4	21.4	75.1
Acenaphthene	3,440,000	33,000,000	38,000	<10.9	<10	<10.8	612	<10.3	<9.3	<8.9	89.1	<9.7
Acenaphthylene	18,000	360,000	700	<9.7	<9	<9.7	271 ^J	<9.2	8.4 ^J	<7.9	<8.8	<8.7
Anthracene	17,200,000	100,000,000	197,727.3	<11.3	<10.4	<11.2	2,020	<10.7	29.8	<9.2	59.3	12.9 ^J
Benzo(a)anthracene	148	2,110	17,000	<7.6	<6.9	12.4 ^J	4,160 ^{AB}	10.8 ^J	68.5	16.7 ^J	167 ^A	53.2
Benzo(a)pyrene	15	211	470	<7.8	<7.2	10.5 ^J	5,880 ^{ABC}	9 ^J	74.2 ^A	17.4 ^{JA}	134 ^A	80.9 ^A
Benzo(b)fluoranthene	148	2,110	479.3	<10.9	<10	<10.8	4,040 ^{ABC}	<10.3	80.3	18	143	73.5
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	<8.3	<7.6	<8.2	3,860 ^A	<7.8	42.9	14.4 ^J	77.7	46.1
Benzo(k)fluoranthene	1,480	21,100	870,000	<12.1	<11.1	<12	3,610 ^A	<11.4	66.7	16.2 ^J	135	72.6
Chrysene	14,800	211,000	144.6	<10.1	<9.3	14.5 ^J	4,670 ^C	15 ^J	91	21.8	258 ^C	71.4
Dibenz(a,h)anthracene	15	211	38,000	<8	<7.4	<7.9	1,120 ^{AB}	<7.6	15.4 ^{JA}	<6.5	32.5 ^A	15.5 ^{JA}
Fluoranthene	2,290,000	22,000,000	88,877.8	<10.9	<10	28.2	10,500	18.2 ^J	158	23	440	89.2
Fluorene	2,290,000	22,000,000	14,802.7	<10.9	<10	<10.8	774	<10.3	<9.3	<8.9	61.3	<9.7
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	<8.3	<7.6	<8.2	2,960 ^{AB}	<7.8	39.8	11.1 ^J	70	39.8
Naphthalene	5,150	26,000	658.2	<10.9	95	<10.8	454	12.4 ^J	25.3	20.7	20.8	65.9
Phenanthrene	18,000	390,000	1,800	<10.9	<10	19.6 ^J	6,930 ^C	70.9	111	27	338	62.7
Pyrene	1,720,000	16,500,000	54,132.2	<10.9	<10	24.2	12,300	16.8 ^J	130	20.9	323	152
Diesel Range Organics (mg/kg)	--	--	--	NT	NT	NT	101 ^J	NT	NT	NT	NT	NT

Notes:

PAHs = Polycyclic Aromatic Hydrocarbon NT = Not Tested

mg/kg = Milligrams per kilogram ug/kg = Micrograms per kilogram

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact

^B = Parameter exceeds Generic RCL for Industrial Direct Contact

^C = Parameter exceeds Generic RCL for Groundwater Pathway

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

^b = Analyte was detected in the method blank

-- = No generic RCL established DUP/D/FD = Field duplicate

Generic RCLs June 2014 per WDNR PUB-RR-890.

**Table 13d
CS7 Metals in Soil
Kenosha Engine Plant**

Sample locations are presented numerically

Parameters	Generic RCLs			GP-SL-14	GP-SL-15	GP-SL-15	GP-SL-16	GP-SL-16	GP-SL-17	GP-SL-18	GP-SL-19	GP-SL-20	GP-SL-21	GP-SL-22
	Direct Contact Pathway		Groundwater Pathway	(2-3)	(2-3)	(2-3) D	(2-3)	(2-3) D	(2-3)	(2-3)	(0-1)	(2-3)	(2-3)	(2-3)
	Non-Industrial	Industrial		05/17/11	05/17/11	05/17/11	05/17/11	05/17/11	05/17/11	05/17/11	05/17/11	05/17/11	05/17/11	05/18/11
Metals (mg/kg)														
Arsenic	0.613	2.39	0.584	6.6 ABC	4.8 ABC	5.9 ABC	6.7 ABC	6.5 ABC	5.6 ABC	6.7 ABC	8.4 ABC	6.6 ABC	4 ABC	8.7 ABC
Barium	15,300	100,000	164.8	107	80.4	52.6	59	57.7	44.4	56.1	113	92.4	70.2	53.7
Cadmium	70	799	0.752	0.3 ^J	0.47 ^J	0.45 ^J	0.15 ^J	0.049 ^J	0.049 ^J	0.13 ^J	<0.031	0.12 ^J	0.064 ^J	0.13 ^J
Chromium	100,000	100,000	360	30.2	9.5	11.1	20.6	25.3	25.2	25.6	38.3	24.6	23.6	19.8
Copper	3,130	40,900	91.6	28.7	550 C	414 C	19.3	19.9	19.2	20	27.3	20.4	15.4	21
Lead	400	800	27	21.3	249 C	68.7 C	16	10.1	9.1	9.8	18	13.6	8.1	11
Mercury	3.13	3.13	0.42	0.034	0.046	0.047	0.024	0.019	0.028	0.027	0.042	0.026	0.02	0.02
Nickel	1,550	19,800	13.1	26.7 C	10.9	13.4 C	22.5 C	31.6 C	24.9 C	25.1 C	36.3 C	24.2 C	19.6 C	22.3 C
Selenium	391	5,110	0.52	0.99 JbC	0.42 ^{Jb}	0.34 ^{Jb}	<0.19	0.36 ^{Jb}	<0.19	0.27 ^{Jb}	0.4 ^{Jb}	<0.18	<0.17	<0.17
Silver	391	5,110	0.85	0.19 ^J	0.092 ^J	0.12 ^J	0.1 ^J	0.078 ^J	0.1 ^J	0.05 ^J	0.1	<0.051	0.14 ^J	<0.047

**Table 13d
CS7 Metals in Soil
Kenosha Engine Plant**

Sample locations are presented numerically

Parameters	Generic RCLs			GP-SL-23	GP-SL-24	GP-SL-25	GP-SL-26	GP-SL-75	PZ26	PZ700	GP711	GP712	GP713	GP714
	Direct Contact Pathway		Groundwater Pathway	(2-3)	(2-3)	(2-3)	(1-2)	(2-3)	(2-3)	(1-2)	(5-6)	(2-3)	(2-3)	(3-4)
	Non-Industrial	Industrial		05/18/11	05/18/11	05/18/11	05/18/11	05/26/11	10/03/11	10/03/11	10/04/11	10/05/11	10/05/11	10/04/11
Metals (mg/kg)														
Arsenic	0.613	2.39	0.584	7.2 ^{ABC}	4.1 ^{ABC}	6.8 ^{ABC}	6.9 ^{ABC}	3.7 ^{ABC}	11.1 ^{ABC}	4.9 ^{ABC}	5.3 ^{ABC}	3.3 ^{ABC}	2.8 ^{ABC}	6.7 ^{ABC}
Barium	15,300	100,000	164.8	62.1	71	78.4	123	54.1	154	56.6	121	11	8.1	176
Cadmium	70	799	0.752	0.15 ^J	0.053 ^J	0.12 ^J	0.19 ^J	0.23	0.64	0.36 ^J	0.39 ^J	0.15 ^J	0.079 ^J	0.34 ^J
Chromium	100,000	100,000	360	21.7	24.1	26.7	25.2	20.1	14.9	15.9	34.6	6.7	4.5	31
Copper	3,130	40,900	91.6	19.3	15.4	20.6	19.4	14.4	638 ^C	22.8	31	NT	NT	217 ^C
Lead	400	800	27	10.1	7.7	12.4	22.8	12.9 ^M	66.5 ^C	20.5	15.4	12.5	2.6	406 ^{AC}
Mercury	3.13	3.13	0.42	0.023	0.015 ^J	0.025	0.021	0.027	0.024	0.012	0.027	0.0052	0.0055	0.034
Nickel	1,550	19,800	13.1	23.8 ^C	19.2 ^C	25 ^C	20.6 ^C	13.3 ^C	23.4 ^C	12.9	29.9 ^C	NA	NA	37.8 ^C
Selenium	391	5,110	0.52	<0.18	<0.19	0.32 ^J	0.39 ^J	0.59 ^C	<0.35	<0.3	<0.36	<0.3	<0.27	<0.33
Silver	391	5,110	0.85	<0.051	0.082 ^J	0.051 ^J	<0.046	<0.053	0.42 ^J	<0.089	0.15 ^J	<0.089	<0.08	0.12 ^J

**Table 13d
CS7 Metals in Soil
Kenosha Engine Plant**

Sample locations are presented numerically

Parameters	Generic RCLs			GP715	GP716	GP717	GP718	GP719	GP720	GP721	GP721	GP722	GP723
	Direct Contact Pathway		Groundwater Pathway	(1-2)	(6-7)	(1-2)	(4-5)	(6-7)	(7-8)	(4-6)	(4-6) FD	(1-3)	(1-3)
	Non-Industrial	Industrial		10/04/11	10/04/11	10/04/11	10/04/11	10/03/11	10/03/11	10/03/11	10/03/11	10/03/11	10/03/11
Metals (mg/kg)													
Arsenic	0.613	2.39	0.584	3 ^{ABC}	1.6 ^{JAC}	11 ^{ABC}	3.2 ^{ABC}	11.6 ^{ABC}	2 ^{JAC}	3 ^{ABC}	5.3 ^{ABC}	4 ^{ABC}	3.7 ^{ABC}
Barium	15,300	100,000	164.8	12.6	38.1	128	58.1	33.5	66.1	13.1	25.2	17.5	17
Cadmium	70	799	0.752	0.15 ^{Jb}	0.054 ^{Jb}	1.3 ^C	0.33 ^J	4.6 ^C	0.067 ^{Jb}	1.4 ^C	1.4 ^C	0.18 ^{Jb}	0.24 ^J
Chromium	100,000	100,000	360	7.4	19.6	22.9	17.8	27.1	15.1	4.4	6.7	7	8.1
Copper	3,130	40,900	91.6	8.4	16.5	340 ^C	18.6	1550 ^C	7.7	82.4	126 ^C	10.1	11.8
Lead	400	800	27	18.5	7.4	784 ^{AC}	7.5	172 ^C	5.8	33.6 ^C	49.6 ^C	15.4	26.2
Mercury	3.13	3.13	0.42	0.0078	0.012	0.1	0.017	0.017	0.018	0.006	0.0097	0.0069	0.009
Nickel	1,550	19,800	13.1	8.2	15.8 ^C	36.5 ^C	14.5 ^C	11.1	11.2	4.2	7.1	8.3	8
Selenium	391	5,110	0.52	<0.27	<0.31	<0.34	<0.3	<0.43	<0.33	<0.32	<0.33	<0.29	<0.27
Silver	391	5,110	0.85	<0.081	<0.092	0.32 ^J	<0.091	0.46 ^J	<0.099	<0.095	<0.098	<0.086	<0.08

Notes:

mg/kg = Milligrams per kilogram ug/kg = Micrograms per kilogram

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact

^B = Parameter exceeds Generic RCL for Industrial Direct Contact

^C = Parameter exceeds Generic RCL for Groundwater Pathway

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

^D = Analyte was detected in the method blank

DUP/D/FD = Field duplicate NT = Not Tested

Generic RCLs June 2014 per WDNR PUB-RR-890



- MW-xxxx EXISTING WATER TABLE MONITORING WELL (MW) OR PIEZOMETER (PZ)
- MW-xxxx ABANDONED MONITORING WELL (MW) OR PIEZOMETER (PZ)
- GP-xxxx SOIL PROBE
- GP-xxxx SOIL PROBE - REFUSAL
- GP-xxxx SOIL PROBE / TEMPORARY MONITORING WELLS
- GP-xxxx PHASE II INVESTIGATION
- GP-SL-xx INTERIM INVESTIGATION



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CS8 SOIL SAMPLE LOCATIONS
 FORMER KENOSHA ENGINE PLANT
 KENOSHA, WISCONSIN

Drawn: Ila 1-23-2024

Checked: Ila 1-23-2024

Approved: Ila 1-23-2024

PROJECT NUMBER 60677460

FIGURE NUMBER CS8

Table 14a
CS8 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-SL-27	GP-SL-27	GP-SL-28	GP-SL-28	GP-SL-28	GP-SL-29	GP-SL-29	GP-SL-30	GP-SL-30	GP-SL-31	GP-SL-31
	Direct Contact Pathway		Groundwater Pathway	(1-2)	(30-31)	(2-3)	(15-16)	(32-33)	(2-3)	(25-26)	(2-3)	(26-27)	(2-3)	(2-3) DUP
	Non-Industrial	Industrial		05/18/11	05/18/11	05/18/11	05/18/11	05/18/11	05/17/11	05/17/11	05/17/11	05/17/11	05/18/11	05/18/11
VOCs (µg/kg)														
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
n-Butylbenzene	108,000	108,000	--	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4

Table 14a
CS8 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-SL-31	GP-SL-32	GP-SL-32	GP-SL-33	GP-SL-33	GP-SL-33	GP-SL-33	GP-SL-34	GP-SL-34	GP-SL-35
	Direct Contact Pathway		Groundwater	(25-26)	(2-3)	(30-31)	(2-3)	(2-3) DUP	(12-13)	(25-26)	(1-2)	(28-29)	(2-3)
	Non-Industrial	Industrial	Pathway	05/18/11	05/18/11	05/18/11	05/19/11	05/19/11	05/19/11	05/19/11	05/19/11	05/19/11	05/19/11
VOCs (µg/kg)													
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25.5	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25.5	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25.5	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25.5	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25.5	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<25	<25.5	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25.5	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	<25	<25	<25	<25.5	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	38.3 ^{CJb}	43.5 ^{CJb}	52.3 ^{CJb}	<25.5	40.4 ^{CJb}	45.1 ^{CJb}	<25
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	<25	<25	<25.5	<25	<25	<25
n-Butylbenzene	108,000	108,000	--	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<41.2	<40.4	<40.4	<40.4
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	<25	<25	<25	<25.5	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	<25	<25	<25	<25.5	<25	<25	<25
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<25	<25	<25	<25.5	<25	<25	<25
tert-Butylbenzene	183,000	183,000	--	<25	<25	<25	<25	<25	<25	<25.5	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<25	<25	<25	<25	<25	<25	<25.5	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25.5	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25.5	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	<25	<25	<25.5	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25.5	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<79	<77.4	<77.4	<77.4

Table 14a
CS8 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-SL-35 (22-23)	GP-SL-36 (2-3)	GP-SL-36 (32-33)	GP-SL-37 (2-3)	GP-SL-37 (2-3) DUP	GP-SL-37 (31-32)	GP-811 (2-3)	GP-811 (5.5-6.5)	GP-812 (2-3)	GP-812 (6-7)
	Direct Contact Pathway		Groundwater Pathway	05/19/11	05/19/11	05/19/11	05/19/11	05/19/11	05/19/11	10/05/11	10/05/11	10/07/11	10/07/11
	Non-Industrial	Industrial		05/19/11	05/19/11	05/19/11	05/19/11	05/19/11	05/19/11	10/05/11	10/05/11	10/07/11	10/07/11
VOCs (µg/kg)													
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25	<25.5	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	29.3 ^J	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	52.5 ^{CJb}	<25	38.4 ^{CJb}	<25	<25	<25	56.3 ^{JbC}	32.4 ^{JbC}	<25	<25
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
n-Butylbenzene	108,000	108,000	--	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25.5	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	<25	<25	224 ^{AC}	<25	<25	43.2 ^{JC}
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<75	<75	<75	<75

Table 14a
CS8 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-813	GP-813	GP-813	GP-814	GP-814	GP-815	GP-815	GP-816	GP-816	GP-817	GP-817
	Direct Contact Pathway		Groundwater	(1-2)	(9-10)	(9-10) FD	(2-3)	(5.5-6.5)	(3-4)	(7-8)	(3-4)	(6-7)	(3-4)	(5-6)
	Non-Industrial	Industrial	Pathway	10/05/11	10/05/11	10/05/11	10/05/11	10/05/11	10/07/11	10/07/11	04/21/14	04/21/14	04/21/14	04/21/14
VOCs (µg/kg)														
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	1,180 ^C	429 ^C
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25.5	<25	<25	<25	<25	<25	39.1 ^J	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	890	682	<25	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	34.3 ^{Jbc}	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<25	327	102	<25	<25	42.8 ^J	<25	<40	<40	<40	<40
n-Butylbenzene	108,000	108,000	--	<40.4	378	<40.4	<40.4	<40.4	<40.4	<40.4	<25	<25	<25	<25
n-Propylbenzene	264,000	264,000	--	<25	1,630	1,470	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	--	<25	31.8 ^J	<25	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	--	<25	395	105	<25	<25	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25.5	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<75	<75	<75	<75	<77.4	<77.4	<77.4	<77.4

Notes:
VOCs = Volatile Organic Compounds
mg/kg = Milligrams per kilogram. ug/kg = Micrograms per kilogram.
^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.
^B = Parameter exceeds Generic RCL for Industrial Direct Contact.
^C = Parameter exceeds Generic RCL for Groundwater Pathway.
^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)
^D = Analyte was detected in the method blank.
-- = No generic RCL established.
DUP/D/FD = Field duplicate.
Generic RCLs June 2014 per WDNR PUB-RR-890.

Table 14b
CS8 Detected Volatile Organic Compounds in Soil from Monitoring Well and Piezometer Locations
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-61	PZ-61	PZ-61	PZ-69	PZ-69	PZ-69	MW-110	MW-110	MW-110
	Direct Contact Pathway		Groundwater Pathway	(3-4)	(7-8)	(22.5-23.5)	(2-3)	(5-6)	(28-29)	(4-5)	(6-7)	(6-7) DUP
	Non-Industrial	Industrial		10/05/11	10/05/11	10/05/11	10/06/11	10/06/11	10/06/11	12/03/10	12/03/10	12/03/10
VOCs (µg/kg)												
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	127^c	<25	<25	<25	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	<25	<25	<25	<25	<25
n-Butylbenzene	108,000	108,000	----	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<25	<25	<25
n-Propylbenzene	264,000	264,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	<25	<25	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	52.3^{JC}	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<75	<75	<75	<50	<50	<50

Table 14b
CS8 Detected Volatile Organic Compounds in Soil from Monitoring Well and Piezometer Locations
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-116 (1-2)	PZ-116 (6-7)	PZ-116 (28-29)	MW-800 (4-5)	MW-800 (7-8)	PZ-801 (3-4)	PZ-801 (8-9)	PZ-801 (8-9) FD	PZ-801 (24-25)
	Direct Contact Pathway		Groundwater Pathway	10/11/11	10/11/11	10/11/11	10/04/11	10/04/11	10/04/11	10/04/11	10/04/11	10/04/11
	Non-Industrial	Industrial										
VOCs (µg/kg)												
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	47.2 ^J	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<25	<25	<25	524 ^C
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	59.3 ^{JbC}	56.7 ^{JbC}	90.7 ^{bC}	<25	<25	179 ^{bC}
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	<25	<25	<25	<25	<25
n-Butylbenzene	108,000	108,000	----	<40.4	<40.4	<40.4	<40.4	158	<40.4	<40.4	<40.4	<40.4
n-Propylbenzene	264,000	264,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	<25	<25	<25	39 ^J	38 ^J	<25
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	<25	262	<25	112	116	<25
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	40.7 ^{JC}	<25	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	274 ^{AC}
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<75	<75	<75	<75	<75	<75

Table 14b
CS8 Detected Volatile Organic Compounds in Soil from Monitoring Well and Piezometer Locations
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			MW-802 (1.5-2.5)	MW-802 (6-7)	MW-803 (3-4)	MW-803 (6-7)	MW-803 (8-9)	PZ-804 (2-3)	PZ-804 (7-8)	PZ-804 (22-23)
	Direct Contact Pathway		Groundwater Pathway	10/05/11	10/05/11	10/05/11	10/05/11	10/05/11	10/04/11	10/04/11	10/04/11
	Non-Industrial	Industrial									
VOCs (µg/kg)											
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<125	<2,500	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<2,500	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	60.3 ^J	<25	<25	<125	181,000 ^{AC}	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<125	63,400 ^C	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	108 ^C	1,480 ^C	14,400 ^{ABC}	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<125	<2,500	40 ^J	<25	<25
Ethylbenzene	7,470	37,000	1,570	47.5 ^J	<25	45.9 ^J	9,110 ^{AC}	127,000 ^{ABC}	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	42.9 ^J	<25	1,130	16,500	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	27.9 ^{JbC}	49.3 ^{JbC}	460 ^{Cb}	7,590 ^{Cb}	63.3 ^{JbC}	45.5 ^{Jb}	35.6 ^{JbC}
Naphthalene	5,150	26,000	658.7	<25	<25	37.1 ^J	3,350 ^C	37,800 ^{ABC}	<25	<25	<25
n-Butylbenzene	108,000	108,000	----	<40.4	139	<40.4	1,300	<4,040	<40.4	<40.4	<40.4
n-Propylbenzene	264,000	264,000	----	<25	83.8	34.7 ^J	2,710	37,500	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	686	11,100	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	<25	161	<25	483	<2,500	<25	<25	<25
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25	197 ^J	<2,500	<25	<25	<25
Toluene	818,000	818,000	1107.2	47.7 ^J	<25	<25	172 ^J	9,770 ^C	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	170 ^C	<25	<25	<125	<2,500	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<125	<2,500	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	432.5	<75	<75	1,426 ^J	291,900 ^{ABC}	<75	<75	<75

Table 14b
CS8 Detected Volatile Organic Compounds in Soil from Monitoring Well and Piezometer Locations
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			MW-805	MW-805	PZ-806	PZ-806	PZ-806	PZ-806	PZ-806	MW-807	MW-807
	Direct Contact Pathway		Groundwater Pathway	(3-4)	(5-6)	(3-4)	(3-4) FD	(7-8)	(11-12)	(22-23)	(3-4)	(8-9)
	Non-Industrial	Industrial		04/21/14	04/21/14	04/21/14	04/21/14	04/21/14	04/21/14	04/21/14	04/21/14	04/21/14
VOCs (µg/kg)												
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<62.5	<62.5	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<62.5	<62.5	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<62.5	<62.5	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<62.5	<62.5	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25	<25	<62.5	193 ^C	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<62.5	<62.5	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<62.5	97.1 ^J	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	120 ^J	260 ^J	2,270	2,080	<25	<25	80.8
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<62.5	<62.5	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<40	<40	<40	97 ^J	4,760 ^C	4,030 ^C	<40	<40	116 ^J
n-Butylbenzene	108,000	108,000	----	<25	<25	<25 ^{UJ}	185 ^J	1,960	1,820	<25	<25	201
n-Propylbenzene	264,000	264,000	----	<25	<25	69.7 ^J	258 ^J	3,340	3,080	<25	<25	131
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	101	1,630	1,470	<25	<25	86.3
sec-Butylbenzene	145,000	145,000	----	<25	<25	70.9	157	1,050	972	<25	<25	242
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25	30.8 ^J	190	185	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<62.5	<62.5	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	237 ^C	851 ^{AC}	<25	<25	<62.5	<62.5	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<62.5	<62.5	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75	<75	<112.5	<112.5	<75	<75	<75

Table 14b
CS8 Detected Volatile Organic Compounds in Soil from Monitoring Well and Piezometer Locations
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			MW-807 (12-13)	MW-808 (3-4)	MW-808 (7-8)	MW-809 (3-4)	MW-809 (7-8)	MW-810 (3-4)	MW-810 (5-6)	MW-850 (2-4)
	Direct Contact Pathway		Groundwater Pathway	04/21/14	04/22/14	04/22/14	04/22/14	04/22/14	04/21/14	04/21/14	04/21/14
	Non-Industrial	Industrial									
VOCs (µg/kg)											
1,1,1-Trichloroethane	640,000	640,000	140.2	<50	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<50	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<50	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<50	<25	<25	<25	<25	<25	<25	<25
Benzene	1,490	7,410	5.1	<50	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<50	<25	<25	<25	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<50	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	586	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<50	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	937 ^c	<40	<40	<40	<40	<40	<40	<40
n-Butylbenzene	108,000	108,000	----	1,030	<25	<25	<25	<25	<25	<25	<25
n-Propylbenzene	264,000	264,000	----	1,180	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	----	278	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	674	<25	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	----	<50	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<50	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<50	<25	<25	<25	<25	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<50	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<100	<75	<75	<75	<75	<75	<75	<75

Table 14b
CS8 Detected Volatile Organic Compounds in Soil from Monitoring Well and Piezometer Locations
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			MW-850 (8-9)	MW-850 (8-9) FD	MW-850 (11-12)
	Direct Contact Pathway		Groundwater Pathway	04/21/14	04/21/14	04/21/14
	Non-Industrial	Industrial				
VOCs (µg/kg)						
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25
Benzene	1,490	7,410	5.1	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<40	<40	<40
n-Butylbenzene	108,000	108,000	----	<25	<25	<25
n-Propylbenzene	264,000	264,000	----	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25
tert-Butylbenzene	183,000	183,000	----	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<75	<75	<75

Notes:

VOCs = Volatile Organic Compounds DUP/D/FD = Field duplicate.

mg/kg = Milligrams per kilogram. ug/kg = Micrograms per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

^b = Analyte was detected in the method blank.

^U = Analyzed, but not detected, detection limit estimated based on QC

-- = No generic RCL established.

Generic RCLs June 2014 per WDNR PUB-RR-890.

Table 14c
CS8 Detected Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-SL-27 (1-2) 05/18/11	GP-SL-28 (2-3) 05/18/11	GP-SL-29 (2-3) 05/17/11	GP-SL-30 (2-3) 05/17/11	GP-SL-31 (2-3) 05/18/11	GP-SL-31 (2-3) D 05/18/11	GP-SL-32 (2-3) 05/18/11	GP-SL-33 (2-3) 05/19/11	GP-SL-33 (2-3) D 05/19/11	GP-SL-34 (1-2) 05/19/11
	Direct Contact Pathway		Groundwater Pathway										
	Non-Industrial	Industrial											
PAHs (µg/kg)													
1-Methylnaphthalene	15,600	53,100	23,000	5.2 ^J	8.6 ^J	7 ^J	5.9 ^J	7.2 ^J	7.3 ^J	25	39.9	45.7	27.9
2-Methylnaphthalene	229,000	2,200,000	20,000	7.3 ^J	9.3 ^J	11.1 ^J	7.5 ^J	8.3 ^J	9.1 ^J	29.8	59.7	49.6	43.8
Acenaphthene	3,440,000	33,000,000	38,000	8.1 ^J	5 ^J	3.4 ^J	4.7 ^J	<2.8	<2.8	<2.8	8.2 ^J	41.7	4.3 ^J
Acenaphthylene	18,000	360,000	700	4.1 ^J	4.3 ^J	4.8 ^J	7.5 ^J	<3.1	4.5 ^J	9.4 ^J	19.2 ^J	29.6	6.2 ^J
Anthracene	17,200,000	100,000,000	197,727.3	18.6 ^J	18.3 ^J	8.3 ^J	17.4 ^J	7.3 ^J	8.2 ^J	18.2 ^J	27.5	72.7	17.2 ^J
Benzo(a)anthracene	148	2,110	17,000	43.6	45.8	13.6 ^J	43.4	20.8	19.5 ^J	62.5	74.1	104	51.5
Benzo(a)pyrene	15	211	470	43.9^A	41.9^A	11 ^J	44.7^A	21.9^A	20.6^A	62.7^A	69^A	81^A	51.6^A
Benzo(b)fluoranthene	148	2,110	479.3	50.4	48.3	14.8 ^J	47.6	26.2	23.3	71.5	85.7	85.4	60
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	29.5	29.5	8.8 ^J	29.5	17.1 ^J	17.5 ^J	47.8	41.2	46.5	41.7
Benzo(k)fluoranthene	1,480	21,100	870,000	41	38.4	9.8 ^J	39	18.9 ^J	19.4 ^J	60	80.2	87.1	55.7
Chrysene	14,800	211,000	144.6	54.5	54	16.4 ^J	52.8	28.5	28.8	83	110	122	75.4
Dibenz(a,h)anthracene	15	211	38,000	9.5	8.9 ^J	<5.3	10 ^J	5.4 ^J	<5.4	15.2^{JA}	15.8^{JA}	18.8^{JA}	13.5 ^J
Fluoranthene	2,290,000	22,000,000	88,877.8	117	108	25.3	86.9	44.6	42.7	115	169	277	108
Fluorene	2,290,000	22,000,000	14,802.7	8.7 ^J	5.3 ^J	6.1 ^J	<4.8	<4.9	<4.9	<5	10.5 ^J	48.6	<4.8
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	24.7	23.4	6.6 ^J	24.1	12.7 ^J	13.3 ^J	36	35.5	41.5	30.7
Naphthalene	5,150	26,000	658.2	7.5 ^J	9.6 ^J	11.3 ^J	6.9 ^J	7 ^J	8.2 ^J	21.2	89.2	39.4	33.9
Phenanthrene	18,000	390,000	1,800	91.4	68.8	32	48.8	48.8	43.1	86.8	135	246	89.4
Pyrene	1,720,000	16,500,000	54,132.2	94.2	87.2	22.4	79.4	37.1	38.4	110	148	206	94.6
Diesel Range Organics (mg/kg)	--	--	--	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

Table 14c
CS8 Detected Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-SL-35 (2-3) 05/19/11	GP-SL-36 (2-3) 05/19/11	GP-SL-37 (2-3) 05/19/11	GP-SL-37 (2-3) D 05/19/11	PZ-61 (3-4) 10/05/11	PZ-61 (7-8) 10/05/11	PZ-69 (2-3) 10/06/11	PZ-69 (5-6) 10/06/11	MW-110 (4-5) 12/03/10	MW-110 (6-7) 12/03/10
	Direct Contact Pathway		Groundwater Pathway										
	Non-Industrial	Industrial											
PAHs (µg/kg)													
1-Methylnaphthalene	15,600	53,100	23,000	40.2	25	7.5 ^J	9.8 ^J	8.4 ^J	<3.2	7.5 ^J	<2.9	<2.7	<2.9
2-Methylnaphthalene	229,000	2,200,000	20,000	38.9	28.6	7 ^J	12 ^J	14 ^J	4.8 ^J	10.1 ^J	<2.9	<2.7	<2.9
Acenaphthene	3,440,000	33,000,000	38,000	21.9	7.5 ^J	6.6 ^J	18.8 ^J	3 ^J	<2.9	<2.8	<2.7	<2.5	<2.7
Acenaphthylene	18,000	360,000	700	13.1 ^J	9.3 ^J	3.9 ^J	5 ^J	9.9 ^J	<3.3	<3.1	<3	<2.8	<3.0
Anthracene	17,200,000	100,000,000	197,727.3	61.1	28.6	13 ^J	40.2	13.3 ^J	<4.9	<4.6	<4.4	<4.1	<4.4
Benzo(a)anthracene	148	2,110	17,000	193 ^A	76	43.9	89.1	44.1	<3	<2.8	<2.7	<2.5	<2.7
Benzo(a)pyrene	15	211	470	201 ^A	70.6 ^A	40.7 ^A	82.9 ^A	48.3 ^A	<3.4	<3.2	<3.1	<2.9	<3.1
Benzo(b)fluoranthene	148	2,110	479.3	208 ^A	85.4	51.6	77.9	76.9	9 ^J	8.1 ^J	8.2 ^J	9.7 ^{Jb}	10.1 ^{Jb}
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	110	48.8	29.1	59.7	43.6	<2.8	<2.6	<2.5	<2.4	<2.5
Benzo(k)fluoranthene	1,480	21,100	870,000	162	64.3	34.8	93.8	51.3	<3.9	<3.6	<3.5	<3.3	<3.6
Chrysene	14,800	211,000	144.6	227 ^C	98.4	59.5	109	81.8	<3.8	<3.6	<3.5	<3.2	<3.5
Dibenz(a,h)anthracene	15	211	38,000	35.6 ^A	15.6 ^A	8.9 ^J	18.3 ^{JA}	20 ^{JA}	8.3 ^J	7.7 ^J	7.6 ^J	<4.8	<5.2
Fluoranthene	2,290,000	22,000,000	88,877.8	395	157	104	247	105	<10.4	<9.8	<9.5	<8.9	<9.6
Fluorene	2,290,000	22,000,000	14,802.7	19.4	7.3 ^J	5.8 ^J	16.3 ^J	6.6 ^J	<5.2	<4.9	<4.7	<4.4	<4.8
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	94.7	41.3	23.5	48	42.1	7 ^J	6.4 ^J	6.3 ^J	<2.5	<2.7
Naphthalene	5,150	26,000	658.2	34.1	23.9	10.2 ^J	13.7 ^J	35.3	<3.7	<3.4	<3.3	<3.1	<3.3
Phenanthrene	18,000	390,000	1,800	259	133	88.8	202	58.9	<4.6	<4.3	<4.2	<3.9	<4.2
Pyrene	1,720,000	16,500,000	54,132.2	374	138	114	197	77.1	<3.8	<3.6	<3.5	<3.3	<3.5
Diesel Range Organics (mg/kg)	--	--	--	NT	NT	NT	NT	NT	2.4 ^J	NT	2.2 ^J	11.0	11.7

Table 14c
CS8 Detected Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			MW-110 (6-7) DUP 12/03/10	PZ-116 (1-2) 10/11/11	PZ-116 (6-7) 10/11/11	MW-800 (4-5) 10/04/11	MW-800 (7-8) 10/04/11	PZ-801 (8-9) 10/04/11	PZ-801 (8-9) FD 10/04/11	MW-802 (1.5-2.5) 10/05/11	MW-802 (6-7) 10/05/11	MW-803 (3-4) 10/05/11	MW-803 (6-7) 10/05/11
	Direct Contact Pathway		Groundwater Pathway											
	Non-Industrial	Industrial												
PAHs (µg/kg)														
1-Methylnaphthalene	15,600	53,100	23,000	<2.9	233	<2.8	<2.9	9.2 ^J	6.2 ^J	4.9 ^J	<19.2	26.7	140	815
2-Methylnaphthalene	229,000	2,200,000	20,000	<2.9	254	<2.8	<2.9	11.8 ^J	6.2 ^J	7.9 ^J	<19.2	5.6 ^J	85.3	1710
Acenaphthene	3,440,000	33,000,000	38,000	<2.7	24.9	<2.6	<2.6	<3	<2.6	<2.6	25.3 ^J	<2.6	<2.8	<14.7
Acenaphthylene	18,000	360,000	700	<3.0	29.7	<3	<3	<3.4	<3	<2.9	35.1 ^J	<3	<3.1	<16.6
Anthracene	17,200,000	100,000,000	197,727.3	<4.4	38.5	<4.3	<4.4	<4.9	<4.4	<4.3	185	6.6 ^J	<4.6	<24.3
Benzo(a)anthracene	148	2,110	17,000	<2.7	97.1	<2.6	<2.7	<3	<2.7	3.7 ^J	853 ^A	19.1	<2.8	<14.8
Benzo(a)pyrene	15	211	470	<3.1	66.5 ^A	<3	<3.1	<3.4	<3.1	3.9 ^J	735 ^{ABC}	14.4	<3.2	<17.1
Benzo(b)fluoranthene	148	2,110	479.3	10.1 ^{Jb}	129 ^A	<3.2	5.5 ^J	6.9 ^J	5.6 ^J	13.1 ^J	655 ^{AC}	19	10.6 ^J	44.6 ^J
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	<2.5	56.8	<2.5	<2.5	<2.8	<2.5	2.7 ^J	435	8.8 ^J	<2.6	<13.8
Benzo(k)fluoranthene	1,480	21,100	870,000	<3.5	84.1	<3.5	<3.5	<3.9	<3.5	5.6 ^J	710	12.2 ^J	<3.7	<19.4
Chrysene	14,800	211,000	144.6	<3.4	262 ^C	<3.4	<3.4	<3.8	<3.4	16.3 ^J	896 ^C	17.9 ^J	<3.6	<18.9
Dibenz(a,h)anthracene	15	211	38,000	<5.1	28.3 ^A	<5.1	<5.1	8.5 ^J	7.6 ^J	8 ^J	195 ^A	9.9 ^J	8.4 ^J	41.8 ^{JA}
Fluoranthene	2,290,000	22,000,000	88,877.8	<9.5	169	<9.3	<9.4	<10.5	<9.4	16.2 ^J	1890	38.1	<9.8	<52.2
Fluorene	2,290,000	22,000,000	14,802.7	<4.7	21.4	<4.6	<4.7	<5.2	<4.7	<4.6	<31.3	<4.6	<4.9	<26
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	<2.7	39.4	<2.6	<2.7	<3	<2.7	<2.6	422 ^A	13 ^J	8.3 ^J	34.3 ^J
Naphthalene	5,150	26,000	658.2	<3.3	177	<3.3	<3.3	30.1	62.5	43.2	<22	51	111	1980 ^C
Phenanthrene	18,000	390,000	1,800	<4.2	705	<4.1	<4.1	<4.6	<4.1	12.8 ^J	686	21.7	<4.3	28.8 ^J
Pyrene	1,720,000	16,500,000	54,132.2	<3.5	126	<3.4	<3.4	<3.9	<3.4	9.9 ^J	1,520	30.3	<3.6	<19.1
Diesel Range Organics (mg/kg)	--	--	--	11.6	NT	NT	NT	5.4	95	197	NT	16.5	NT	121

Table 14c
CS8 Detected Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			MW-803	PZ-804	PZ-804	MW-808	MW-809	MW-810	GP-811	GP-811	GP-812	GP-812
	Direct Contact Pathway		Groundwater Pathway	(8-9)	(2-3)	(7-8)	(3-4)	(3-4)	(3-4)	(2-3)	(5.5-6.5)	(2-3)	(6-7)
	Non-Industrial	Industrial		10/05/11	10/04/11	10/04/11	04/22/14	04/22/14	04/21/14	10/05/11	10/05/11	10/07/11	10/07/11
PAHs (µg/kg)													
1-Methylnaphthalene	15,600	53,100	23,000	8470	<2.9	<2.8	<9	<9.7	<9.1	24.1	<3.2	9.8 ^J	<3
2-Methylnaphthalene	229,000	2,200,000	20,000	20,500^C	3.1 ^J	3.8 ^J	<9	<9.7	<9.1	28.9	<3.2	8.3 ^J	<3
Acenaphthene	3,440,000	33,000,000	38,000	<159	<2.7	<2.6	<9	<9.7	<9.1	13.6 ^J	<3	46.4	<2.7
Acenaphthylene	18,000	360,000	700	<180	<3	<2.9	<8	<8.7	<8.1	29.6	<3.4	59.9	<3.1
Anthracene	17,200,000	100,000,000	197,727.3	<264	<4.4	<4.2	<9.3	<10.1	<9.4	71.1	<4.9	300	<4.5
Benzo(a)anthracene	148	2,110	17,000	<161	<2.7	<2.6	<6.2	<6.7	20.5	172^A	<3	441^A	<2.7
Benzo(a)pyrene	15	211	470	<185	<3.1	<3	<6.4	<7	20.2^A	200^A	<3.4	823^{ABC}	<3.2
Benzo(b)fluoranthene	148	2,110	479.3	479^{JAC}	6.9 ^J	5.4 ^J	<9	<9.7	21.3	192^A	9.2 ^J	530^{AC}	<3.3
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	<150	<2.5	<2.4	<6.8	<7.4	15.8 ^J	95	<2.8	555	<2.6
Benzo(k)fluoranthene	1,480	21,100	870,000	<210	<3.5	<3.4	<9.9	<10.8	19	187	<3.9	462	<3.6
Chrysene	14,800	211,000	144.6	<205	<3.4	<3.3	<8.3	<9	24.5	206^C	<3.8	476^C	4.5 ^J
Dibenz(a,h)anthracene	15	211	38,000	447^{JAB}	7.9 ^J	7.3 ^J	<6.6	<7.1	<6.7	39.5^A	8.4 ^J	187^A	<5.3
Fluoranthene	2,290,000	22,000,000	88,877.8	<566	<9.5	<9.1	<9	<9.7	48.2	434	<10.5	1,230	<9.7
Fluorene	2,290,000	22,000,000	14,802.7	<282	<4.7	<4.5	<9	<9.7	<9.1	13.2 ^J	<5.2	58.3	<4.8
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	374^{JA}	<2.7	<2.6	<6.8	<7.4	13.2 ^J	83.8	7.2 ^J	521^A	<2.7
Naphthalene	5,150	26,000	658.2	26000^{ABC}	<3.3	4.8 ^J	<9	<9.7	<9.1	20.4	<3.7	17 ^J	<3.4
Phenanthrene	18,000	390,000	1,800	<249	<4.2	<4	<9	<9.7	25.8	372	<4.6	653	<4.3
Pyrene	1,720,000	16,500,000	54,132.2	<207	<3.5	<3.3	<9	<9.7	37.9	356	<3.9	946	<3.5
Diesel Range Organics (mg/kg)	--	--	--	NT	NT	2.7	NT	NT	NT	NT	<1.2	NT	6.1

Table 14c
CS8 Detected Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-813 (1-2) 10/05/11	GP-813 (9-10) 10/05/11	GP-813 (9-10) FD 10/05/11	GP-814 (2-3) 10/05/11	GP-814 (5.5-6.5) 10/05/11	GP-815 (3-4) 10/07/11	GP-815 (7-8) 10/07/11	MW-850 (2-4) 04/21/14
	Direct Contact Pathway		Groundwater Pathway								
	Non-Industrial	Industrial									
PAHs (µg/kg)											
1-Methylnaphthalene	15,600	53,100	23,000	<2.7	83.6	295	4.9 ^J	10.2 ^J	76.2	<28.9	<8.9
2-Methylnaphthalene	229,000	2,200,000	20,000	<2.7	143	425	6.3 ^J	12.1 ^J	93.3	<28.9	<8.9
Acenaphthene	3,440,000	33,000,000	38,000	<2.5	<2.7	<2.7	<2.8	12.5 ^J	151	76.7 ^J	35.5
Acenaphthylene	18,000	360,000	700	<2.9	<3.1	<3.1	<3.2	33.9	19.2 ^J	<30.1	11.2 ^J
Anthracene	17,200,000	100,000,000	197,727.3	<4.2	<4.5	<4.5	<4.6	42.4	356	<44	56.2
Benzo(a)anthracene	148	2,110	17,000	<2.5	<2.8	<2.7	16.5 ^J	148^A	577^A	39.8 ^J	149^A
Benzo(a)pyrene	15	211	470	<2.9	<3.2	<3.1	13.7 ^J	199^A	522^{ABC}	<31	151^A
Benzo(b)fluoranthene	148	2,110	479.3	7.4 ^J	6.3 ^{Jb}	8.5 ^J	17.4 ^J	263^A	472^{AC}	<32.7	138
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	<2.4	<2.6	<2.5	12.1 ^J	114	311	<25	71.3
Benzo(k)fluoranthene	1,480	21,100	870,000	<3.3	<3.6	<3.6	9.9 ^J	192	430	<35.1	148
Chrysene	14,800	211,000	144.6	<3.2	<3.5	<3.5	16.4 ^J	243^C	594^C	48.3 ^J	169^C
Dibenz(a,h)anthracene	15	211	38,000	7.1 ^J	7.8 ^J	7.9 ^J	10.6 ^J	44.8^A	106^A	<51.5	29.6^A
Fluoranthene	2,290,000	22,000,000	88,877.8	<9	<9.7	<9.6	24.4	461	1540	<94.6	351
Fluorene	2,290,000	22,000,000	14,802.7	<4.5	<4.8	<4.8	<4.9	15.2 ^J	142	<47.1	24.1
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	5.9 ^J	<2.8	6.7 ^J	13.3 ^J	105 ^A	285^A	<26.9	72.6
Naphthalene	5,150	26,000	658.2	<3.1	94	236	<3.5	23.6	75.7	<33.1	<8.9
Phenanthrene	18,000	390,000	1,800	<3.9	<4.3	<4.2	12.4 ^J	259	1450	<41.6	206
Pyrene	1,720,000	16,500,000	54,132.2	<3.3	<3.5	<3.5	32.3	338	1230	61.5 ^J	281
Diesel Range Organics (mg/kg)	--	--	--	NT	9.6	99.5	NT	82.5	NT	6,320	NT

Notes:

PAHs = Polycyclic Aromatic Hydrocarbons; NT = Not Tested

mg/kg = Milligrams per kilogram ug/kg = Micrograms per kilogram

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact

^B = Parameter exceeds Generic RCL for Industrial Direct Contact

^C = Parameter exceeds Generic RCL for Groundwater Pathway

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

^b = Analyte was detected in the method blank

-- = No ger DUP/D/FD = Field duplicate

Generic RCLs June 2014 per WDNR PUB-RR-890

**Table 14d
CS8 Metals in Soil
Kenosha Engine Plant**

Sample locations are presented numerically

Parameters	Generic RCLs			GP-SL-27	GP-SL-28	GP-SL-29	GP-SL-30	GP-SL-31	GP-SL-31	GP-SL-32	GP-SL-33	GP-SL-33	GP-SL-34
	Direct Contact Pathway		Groundwater Pathway	(1-2)	(2-3)	(2-3)	(2-3)	(2-3)	(2-3) D	(2-3)	(2-3)	(2-3) D	(1-2)
	Non-Industrial	Industrial		05/18/11	05/18/11	05/17/11	05/17/11	05/18/11	05/18/11	05/18/11	05/18/11	05/19/11	05/19/11
Metals (mg/kg)													
Arsenic	0.613	2.39	0.58	6.7 ^{ABC}	8.2 ^{ABC}	6.1 ^{ABC}	8.7 ^{ABC}	4.5 ^{ABC}	4.3 ^{ABC}	7.5 ^{ABC}	5.1 ^{ABC}	4.6 ^{ABC}	8.2 ^{ABC}
Barium	15,300	100,000	164.8	88.2	78.1	75.4	168 ^C	71.9	80.1	142	111	90.9	123
Cadmium	70	799	0.752	0.29 ^J	0.34 ^J	0.23 ^J	0.57	0.42 ^J	0.52 ^J	0.79 ^C	0.62	0.48 ^J	0.85 ^C
Chromium	100,000	100,000	360	23.1	20.6	22.1	17.2	17.2	17.8	20.7	21	20	20.6
Copper	3,130	40,900	91.6	22.5	24.1	22.8	45.4	20.6	26.2	53	37.3	35.2	49.8
Lead	400	800	27	32.3 ^C	51 ^C	35.4 ^C	154 ^C	87.1 ^C	99.8 ^C	163 ^C	116 ^{CJ-}	179 ^{CJ-}	188 ^{CJ-}
Mercury	3.13	3.13	0.42	0.043	0.058	0.031	0.11	0.099	0.075	0.11	0.11	0.12	0.12
Nickel	1,550	19,800	13.1	21.8 ^C	17.9 ^C	21.2 ^C	15.7 ^C	13	13.3 ^C	18.8 ^C	18.3 ^C	16.1 ^C	19.9 ^C
Selenium	391	5,110	0.52	0.37 ^J	0.45 ^J	0.18 ^J	0.48 ^J	0.3 ^J	0.28 ^J	0.49 ^J	0.58 ^{CJ}	0.58 ^{CJ}	0.51 ^J
Silver	391	5,110	0.85	0.086 ^J	0.14 ^J	<0.049	0.27 ^J	0.095 ^J	0.12 ^J	0.31 ^J	0.11 ^J	<0.051	0.056 ^J
Zinc	23,500	100,000	--	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

**Table 14d
CS8 Metals in Soil
Kenosha Engine Plant**

Sample locations are presented numerically

Parameters	Generic RCLs			GP-SL-35 (2-3) 05/19/11	GP-SL-36 (2-3) 05/19/11	GP-SL-37 (2-3) 05/19/11	GP-SL-37 (2-3) D 05/19/11	PZ-61 (7-8) 10/05/11	PZ-69 (5-6) 10/06/11	MW-800 (7-8) 10/05/11	PZ-801 (8-9) 10/04/11	PZ-801 (8-9) FD 10/04/11	MW-802 (6-7) 10/05/11
	Direct Contact Pathway		Groundwater Pathway										
	Non-Industrial	Industrial											
Metals (mg/kg)													
Arsenic	0.613	2.39	0.58	4.7 ^{ABC}	6.2 ^{ABC}	4.9 ^{ABC}	5.1 ^{ABC}	8.9 ^{ABC}	1.4 ^{JAC}	2.9 ^{ABC}	1.7 ^{JAC}	1.9 ^{AC}	2.5 ^{ABC}
Barium	15,300	100,000	164.8	100	95.9	86.2	111	45.1	15.2	64.3	10.3	14.1	9.6
Cadmium	70	799	0.752	0.56	0.78 ^C	1.6 ^C	0.88 ^C	0.13 ^J	0.14 ^J	0.14 ^{Jb}	0.13 ^{Jb}	0.13 ^{Jb}	0.085 ^J
Chromium	100,000	100,000	360	17.5	18.8	21.1	17.8	20.9	11.2	26.4	8.4	11.3	8.4
Copper	3,130	40,900	91.6	30.1	42.5	25.5	28.3	19.7	11	19	9.2	9.7	8.6
Lead	400	800	27	88.5 ^{CJ-}	126 ^{CJ-}	114 ^{CJ-}	73.5 ^{CJ-}	12.1	6.7	9.8	4.3	4	5.7
Mercury	3.13	3.13	0.42	0.05	0.12	0.057	0.068	0.011	0.008	0.013	0.0069	0.0052	0.006
Nickel	1,550	19,800	13.1	14.9 ^C	16.4 ^C	14.6 ^C	18.1 ^C	22.5 ^C	8.7	24.2 ^C	7.5	7.4	7.4
Selenium	391	5,110	0.52	0.61 ^{CJ}	0.56 ^{CJ}	1.4 ^J	0.57 ^{CJ}	<0.34	<0.34	<0.33	<0.31	<0.28	<0.31
Silver	391	5,110	0.85	<0.05	0.13 ^J	0.41 ^J	<0.046	<0.1	<0.1	<0.099	<0.091	<0.083	<0.093
Zinc	23,500	100,000	--	NT	NT	NT	NT	50.2	43.1	NT	NT	NT	34.4

**Table 14d
CS8 Metals in Soil
Kenosha Engine Plant**

Sample locations are presented numerically

Parameters	Generic RCLs			MW-803	PZ-804	GP-811	GP-812	GP-813	GP-813	GP-814	GP-815
	Direct Contact Pathway		Groundwater Pathway	(6-7)	(7-8)	(5.5-6.5)	(6-7)	(9-10)	(9-10) FD	(5.5-6.5)	(7-8)
	Non-Industrial	Industrial		10/05/11	10/04/11	10/05/11	10/07/11	10/05/11	10/05/11	10/05/11	10/07/11
Metals (mg/kg)											
Arsenic	0.613	2.39	0.58	2.8 ^{ABC}	6.3 ^{ABC}	3.7 ^{ABC}	6.6 ^{ABC}	5.8 ^{ABC}	5.5 ^{ABC}	4.7 ^{ABC}	1.9 ^{JAC}
Barium	15,300	100,000	164.8	61.2	49.7	53.6	25.4	12.8	12.8	86.1	29.6
Cadmium	70	799	0.752	0.097 ^J	<0.019	0.21 ^J	0.1 ^J	0.13 ^J	0.13 ^J	1.1 ^C	1.3 ^C
Chromium	100,000	100,000	360	20.1	15.9	20.8	11	7.1	8.3	26.5	9.3
Copper	3,130	40,900	91.6	18.8	14.6	17.7	13.8	12.4	11.3	53.8	14.6
Lead	400	800	27	11	9.1	9.9	6.9	5.3	7.2	123 ^C	7
Mercury	3.13	3.13	0.42	0.016	0.017	0.017	0.006	0.006	0.006	0.035	0.007
Nickel	1,550	19,800	13.1	23.1 ^C	15.6 ^C	20.9 ^C	12	8.5	9.4	27.1 ^C	7.9
Selenium	391	5,110	0.52	<0.33	<0.32	<0.36	<0.31	<0.34	<0.32	<0.33	<0.32
Silver	391	5,110	0.85	<0.099	<0.096	<0.11	<0.093	<0.1	<0.096	<0.097	<0.094
Zinc	23,500	100,000	--	43.1	NT	46	36.3	39.6	36.6	235	69

Notes:

mg/kg = Milligrams per kilogram ug/kg = Micrograms per kilogram

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact

^B = Parameter exceeds Generic RCL for Industrial Direct Contact

^C = Parameter exceeds Generic RCL for Groundwater Pathway

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

^b = Analyte was detected in the method blank

^{+/-} = Value estimated due to matrix effect (⁺ = biased high) (⁻ = biased low)

-- = No generic RCL establ DUP/D/FD = Field duplicate.

Nt = Not Tested

Generic RCLs June 2014 per WDNR PUB-RR-890

**CS9 SOIL SAMPLE LOCATIONS
 FORMER KENOSHA ENGINE PLANT
 KENOSHA, WISCONSIN**



- MW-XXX EXISTING WATER TABLE MONITORING WELL (MW) OR PIEZOMETER (PZ)
- MW-XXX ABANDONED MONITORING WELL (MW) OR PIEZOMETER (PZ)
- GP-XXX SOIL PROBE
- GP-XXX SOIL PROBE - REFUSAL
- GP-XXX SOIL PROBE / TEMPORARY MONITORING WELLS
- GP-XXX PHASE II INVESTIGATION
- GP-SL-XXX INTERIM INVESTIGATION

Drawn: Ila 1-23-2024

Checked: Ila 1-23-2024

Approved: Ila 1-23-2024

PROJECT NUMBER **60677460**

FIGURE NUMBER **CS9**

Table 15a
CS9 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-SL-38 (2-3)	GP-SL-38 (13-14)	GP-SL-38 (25-26)	GP-SL-39 (1-2)	GP-SL-39 (11-12)	GP-SL-39 (11-12) DUP	GP-SL-39 (27-28)	GP-SL-40 (1-2)	GP-SL-40 (30-31)	GP-SL-41 (1-2)	GP-SL-41 (28-29)	GP-SL-42 (1-2)	GP-SL-42 (15-16)	
	Direct Contact Pathway		Groundwater Pathway	05/19/11	05/19/11	05/19/11	05/19/11	05/19/11	05/19/11	05/19/11	05/19/11	05/19/11	05/19/11	05/20/11	05/20/11	05/20/11	05/20/11
	Non-Industrial	Industrial															
VOCs (µg/kg)				<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
Tetrachloroethene	30,700	153,000	4.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	

Parameters	Generic RCLs			GP-SL-42 (15-16) DUP	GP-SL-42 (28-29)	GP-SL-43 (2-3)	GP-SL-43 (29-30)	GP-SL-44 (2-3)	GP-SL-44 (29.5-30.5)	GP-SL-44 (29.5-30.5) D	GP-SL-45 (1-2)	GP-SL-45 (25-26)	GP-SL-46 (2-3)	GP-SL-46 (2-3) DUP	GP-SL-46 (26-27)	
	Direct Contact Pathway		Groundwater Pathway	05/20/11	05/20/11	05/20/11	05/20/11	05/19/11	05/19/11	05/19/11	05/20/11	05/20/11	05/20/11	05/20/11	05/20/11	05/20/11
	Non-Industrial	Industrial														
VOCs (µg/kg)				<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
Tetrachloroethene	30,700	153,000	4.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	36.4 ^J	<25	<25	<25	<25	<25	<25	<25	

Table 15a
CS9 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-SL-47 (2-3)	GP-SL-47 (25.5-26.5)	GP-SL-48 (2-3)	GP-SL-48 (26-27)	GP-SL-48 (26-27) DUP	GP-911 (3-4)	GP-911 (5-6)	GP-912 (3-4)	GP-912 (3-4) FD	GP-912 (5-6)	GP-913 (3-4)	GP-913 (6-7)	GP-914 (1-2)
	Direct Contact Pathway		Groundwater Pathway	05/20/11	05/20/11	05/20/11	05/20/11	05/20/11	10/07/11	10/07/11	10/07/11	10/07/11	10/07/11	10/07/11	10/07/11	10/07/11
	Non-Industrial	Industrial														
VOCs (µg/kg)																
Naphthalene	5,150	26,000	658.7	<25	<25	207	<25	<25	<25	<25	<25	<25	<25	<25	<25	34.5 ^J
Tetrachloroethene	30,700	153,000	4.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	39.6 ^{JC}	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25

Parameters	Generic RCLs			GP-914 (7-8)	GP-915 (2-3)	GP-915 (7-8)	GP-915 (7-8) FD	GP-916 (1-2)	GP-916 (8-9)	GP-917 (2-3)	GP-917 (6-7)	GP-918 (2-3)	GP-918 (6-7)	GP-919 (3-4)	GP-919 (6-7)
	Direct Contact Pathway		Groundwater Pathway	10/07/11	10/07/11	10/07/11	10/07/11	10/07/11	10/07/11	10/10/11	10/10/11	10/10/11	10/10/11	10/10/11	10/10/11
	Non-Industrial	Industrial													
VOCs (µg/kg)															
Naphthalene	5,150	26,000	658.7	75.2	<25	87.8	<25	<25	156	<25	<25	<25	<25	34.8 ^J	<25
Tetrachloroethene	30,700	153,000	4.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25

Notes:

VOCs = Volatile Organic Compounds

mg/kg = Milligrams per kilogram. µg/kg = Micrograms per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

-- = No generic RCL established.

DUP/D/FD = Field duplicate.

Generic RCLs June 2014 per WDNR PUB-RR-890.

Table 15b
CS9 Detected Volatile Organic Compounds in Soil from Monitoring Well and Piezometer Locations
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			P-Z68 (6-7)	PZ-68 (25-26)	MW-109 (10-11)	MW-900 (1.5-2.5)	MW-900 (7-8)	MW-901 (3-4)	MW-901 (7-8)	MW-903 (1-2)	MW-903 (6-7)	PZ-904 (1-2)	PZ-904 (5.5-6.5)
	Direct Contact Pathway		Groundwater											
	Non-Industrial	Industrial	Pathway	10/10/11	10/10/11	12/01/10	10/06/11	10/06/11	10/06/11	10/06/11	10/10/11	10/10/11	10/07/11	10/07/11
VOCs (µg/kg)														
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	59.2 ^J	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	33.3 ^{Jbc}	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	4.5	<25	<25	<25	<25	181 ^C	<25	<25	<25	<25	<25	<25

Parameters	Generic RCLs			PZ-904 (25-26)	PZ-905 (1.5-3.5)	PZ-905 (1.5-3.5)FD	PZ-905 (5-6)	PZ-905 (25-26)	PZ-906 (3-4)	PZ-906 (7-8)	PZ-906 (23-24)	PZ-907 (3-4)	PZ-907 (6-7)	PZ-907 (6-7) FD
	Direct Contact Pathway		Groundwater											
	Non-Industrial	Industrial	Pathway	10/07/11	10/07/11	10/07/11	10/07/11	10/07/11	05/13/14	05/13/14	05/13/14	05/12/14	05/12/14	05/12/14
VOCs (µg/kg)														
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	<25	<40	<40	<40	<40	<40 ^{UJ}	<40 ^{UJ}
Tetrachloroethene	30,700	153,000	4.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25 ^{UJ}	<25 ^{UJ}

Parameters	Generic RCLs			PZ-907 (18-19)	PZ-908 (3-4)	PZ-908 (5-6)	PZ-908 (21-22)	MW-909 (3-4)	MW-909 (8-9)	PZ-906 (3-4)	PZ-910 (3-4)	PZ-910 (5-6)	PZ-910 (12-13)	PZ-910 (22-23)
	Direct Contact Pathway		Groundwater											
	Non-Industrial	Industrial	Pathway	05/12/14	05/12/14	05/12/14	05/12/14	05/13/14	05/13/14	05/13/14	05/13/14	05/13/14	05/13/14	05/13/14
VOCs (µg/kg)														
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<40	<40	<40	<40	<40	<40	<40	<40	<40	7,730 ^{AC}	<40
Tetrachloroethene	30,700	153,000	4.5	<25	<25	<25	<25	<25	94.4 ^C	<25	<25	<25	<62.5	<25

Notes:

VOCs = Volatile Organic Compounds

mg/kg = Milligrams per kilogram ug/kg = Micrograms per kilogram

DUP/D/FD = Field duplicate.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact

Generic RCLs June 2014 per WDNR PUB-RR-890.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact

^C = Parameter exceeds Generic RCL for Groundwater Pathway

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

^b = Analyte was detected in the method blank.

^U = Not detected, detection limit elevated based on lab QC; see data validation memo.

Table 15c
CS9 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-SL-38	GP-SL-39	GP-SL-40	GP-SL-41	GP-SL-42	GP-SL-43	GP-SL-44	GP-SL-45	GP-SL-46	GP-SL-46	GP-SL-47
	Direct Contact Pathway		Groundwater	(2-3)	(1-2)	(1-2)	(1-2)	(1-2)	(2-3)	(2-3)	(1-2)	(2-3)	(2-3) D	(2-3)
	Non-Industrial	Industrial	Pathway	05/19/11	05/19/11	05/19/11	05/20/11	05/20/11	05/20/11	05/19/11	05/20/11	05/20/11	05/20/11	05/20/11
PAHs (µg/kg)														
1-Methylnaphthalene	15,600	53,100	23,000	<3	17.5 ^J	10.9 ^J	6.7 ^J	6.9 ^J	12.4 ^J	50.1	30.3	523	5.6 ^J	15.1 ^J
2-Methylnaphthalene	229,000	2,200,000	20,000	<3	19.8 ^J	13.4 ^J	8.4 ^J	8.5 ^J	13.6 ^J	64.4	44.3	870	6.6 ^J	28.2
Acenaphthene	3,440,000	33,000,000	38,000	<2.7	20 ^J	7 ^J	4.3 ^J	3 ^J	6.9 ^J	18.4 ^J	<2.7	167	<2.9	42.9
Acenaphthylene	18,000	360,000	700	<3.1	5.8 ^J	5.2 ^J	3.9 ^J	<2.8	5.9 ^J	23.8	<3.1	91.7 ^J	<3.3	<3.1
Anthracene	17,200,000	100,000,000	197,727.3	<4.5	32.7	22.1	14.8 ^J	6.8 ^J	28.3	72.8	<4.5	95 ^J	<4.8	51.9
Benzo(a)anthracene	148	2,110	17,000	<2.7	97.9	74.6	49.5	26.4	77.3	178^A	8.2 ^J	27.2 ^J	6.8 ^J	121
Benzo(a)pyrene	15	211	470	<3.2	106^A	85.1^A	56.6^A	27.2^A	79.7^A	184^A	5.5 ^J	<20.9	6.3 ^J	120^A
Benzo(b)fluoranthene	148	2,110	479.3	<3.3	106	88.3	55.9	35.2	79.7	257^A	9.1 ^J	26 ^J	12.5 ^J	132
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	<2.6	71.6	62	40.3	21.1	53.3	120	6.4 ^J	<16.9	5.8 ^J	73.3
Benzo(k)fluoranthene	1,480	21,100	870,000	<3.6	91.5	86.7	50.1	23.5	74.7	179	4.9 ^J	<23.7	5.9 ^J	106
Chrysene	14,800	211,000	144.6	<3.5	123	98	64.5	34.8	89.8	260^C	16 ^J	31.7 ^J	14.2 ^J	141
Dibenz(a,h)anthracene	15	211	38,000	<5.3	21.2^A	20^A	12 ^J	6.1 ^J	17.6^{JA}	45.6^A	<5.2	36.6^{JA}	<5.6	25.6^A
Fluoranthene	2,290,000	22,000,000	88,877.8	<9.7	288	177	105	57.9	189	389	10.2 ^J	112 ^J	14 ^J	372
Fluorene	2,290,000	22,000,000	14,802.7	<4.8	16.7 ^J	6.6 ^J	<4.9	<4.4	6.8 ^J	17.5 ^J	<4.8	207	<5.1	37.4
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	<2.7	58.4	50.2	32.1	16.9 ^J	44.2	105	3.6 ^J	<18.1	4.8 ^J	65.3
Naphthalene	5,150	26,000	658.2	<3.4	21.1	11.8 ^J	9.8 ^J	14.1 ^J	12.7 ^J	58.1	38.9	2,330^C	8.3 ^J	30.7
Phenanthrene	18,000	390,000	1,800	<4.2	256	107	83.9	41.4	124	311	24.5	435	20.7	342
Pyrene	1,720,000	16,500,000	54,132.2	<3.5	253	150	97.7	48.3	153	324	12.7 ^J	104 ^J	10.7 ^J	291
Diesel Range Organics (mg/kg)	--	--	--	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

Table 15c
CS9 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-SL-48	PZ-68	MW-109	MW-900	MW-900	MW-901	MW-901	MW-903	MW-903	PZ-904	PZ-904
	Direct Contact Pathway		Groundwater	(2-3)	(6-7)	(10-11)	(1.5-2.5)	(7-8)	(3-4)	(7-8)	(1-2)	(6-7)	(1-2)	(5.5-6.5)
	Non-Industrial	Industrial	Pathway	05/20/11	10/10/11	12/01/10	10/06/11	10/06/11	10/06/11	10/06/11	10/10/11	10/10/11	10/07/11	10/07/11
PAHs (µg/kg)														
1-Methylnaphthalene	15,600	53,100	23,000	96.1 ^J	<2.7	<3.1	6.9 ^J	<2.8	5.2 ^J	<2.9	<2.7	<2.9	<2.9	99.8 ^J
2-Methylnaphthalene	229,000	2,200,000	20,000	116 ^J	<2.7	<3.1	8.3 ^J	<2.8	7.4 ^J	<2.9	<2.7	<2.9	<2.9	81.7 ^J
Acenaphthene	3,440,000	33,000,000	38,000	636	<2.5	<2.8	3.6 ^J	<2.6	<2.8	<2.7	<2.5	<2.7	<2.7	304 ^J
Acenaphthylene	18,000	360,000	700	61.8 ^J	<2.8	<3.2	4.4 ^J	<2.9	5.8 ^J	<3	<2.8	4.4 ^J	<3	145 ^J
Anthracene	17,200,000	100,000,000	197,727.3	1,120	<4.1	<4.7	12.9 ^J	<4.3	10.5 ^J	<4.4	<4.1	16 ^J	<4.4	838
Benzo(a)anthracene	148	2,110	17,000	2,370 ^{AB}	<2.5	<2.9	41.6	<2.6	27.8	<2.7	<2.5	12.9 ^J	<2.7	1,220 ^A
Benzo(a)pyrene	15	211	470	2,420 ^{ABC}	<2.9	<3.3	43.4 ^A	<3	30.3 ^A	<3.1	<2.9	14.3 ^J	<3.1	1,280 ^{ABC}
Benzo(b)fluoranthene	148	2,110	479.3	2,000 ^{AC}	<3.1	10.9 ^{Jb}	50.3	6.3 ^{Jb}	40.3 ^b	5.6 ^{Jb}	<3	4.8 ^J	<3.3	924 ^{AC}
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	1,360	<2.3	<2.7	32.6	<2.4	22.8	<2.5	<2.3	7.1 ^J	<2.5	773
Benzo(k)fluoranthene	1,480	21,100	870,000	2,400 ^A	<3.3	<3.7	38.8	<3.4	26.1	<3.5	<3.3	<3.5	<3.5	1,140 ^A
Chrysene	14,800	211,000	144.6	2,560 ^C	<3.2	4.1 ^J	48.6	<3.3	34.8	<3.5	<3.2	56.1	3.6 ^J	1,180 ^C
Dibenz(a,h)anthracene	15	211	38,000	517 ^{AB}	<4.8	<5.5	17.9 ^{JA}	7.5 ^{Jb}	14.3 ^{JA}	<5.2	<4.8	<5.2	<5.2	258 ^{JAB}
Fluoranthene	2,290,000	22,000,000	88,877.8	6,620	<8.9	<10.0	82.8	<9.2	45.7	<9.6	<8.8	<9.5	<9.5	3,240
Fluorene	2,290,000	22,000,000	14,802.7	631	<4.4	<5.0	<4.5	<4.6	<4.9	<4.8	<4.4	<4.7	<4.7	430
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	1,230 ^A	<2.5	<2.9	32.4	<2.6	25	<2.7	<2.5	4 ^J	<2.7	694 ^A
Naphthalene	5,150	26,000	658.2	250	<3.1	<3.5	5.8 ^J	<3.2	12.1 ^J	<3.3	<3.1	<3.3	<3.3	163 ^J
Phenanthrene	18,000	390,000	1,800	5,810 ^C	<3.9	<4.4	42.2	<4.1	32.8	<4.2	<3.8	6.8 ^J	<4.2	3,120 ^C
Pyrene	1,720,000	16,500,000	54,132.2	5,500	<3.3	<3.7	74.9	<3.4	41.9	<3.5	<3.2	22.1	<3.5	2,470
Diesel Range Organics (mg/kg)	--	--	--	NT	NT	16.6	NT	NT	NT	NT	NT	NT	NT	NT

Table 15c
CS9 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-905 (1.5-3.5) 10/07/11	PZ-905 (1.5-3.5) FD 10/07/11	PZ-905 (5-6) 10/07/11	PZ-906 (3-4) 05/13/14	PZ-907 (3-4) 05/12/14	PZ-908 (3-4) 05/12/14	MW-909 (3-4) 05/13/14	PZ-910 (3-4) 05/13/14	PZ-910 (12-13) 05/13/14	GP-911 (3-4) 10/07/11	GP-911 (5-6) 10/07/11
	Direct Contact Pathway		Groundwater Pathway											
	Non-Industrial	Industrial												
PAHs (µg/kg)														
1-Methylnaphthalene	15,600	53,100	23,000	44.5 ^J	<2.7	<2.9	<8.7	<17.3	<8.8	<8.7	<8.8	4,850	<3.1	3.3 ^J
2-Methylnaphthalene	229,000	2,200,000	20,000	48.3 ^J	<2.7	<2.9	<8.7	<17.3	<8.8	<8.7	<8.8	4,020 ^J	<3.1	4.9 ^J
Acenaphthene	3,440,000	33,000,000	38,000	113 ^J	<2.5	<2.7	<8.7	<17.3	<8.8	<8.7	<8.8	26,700	<2.9	<2.7
Acenaphthylene	18,000	360,000	700	<28.3	<2.8	<3	<7.8	<15.5	<7.8	<7.8	<7.9	<1,860	<3.3	<3.1
Anthracene	17,200,000	100,000,000	197,727.3	300	<4.1	<4.5	<9	<18	<9.1	<9	<9.1	45,900	<4.8	<4.5
Benzo(a)anthracene	148	2,110	17,000	479 ^A	<2.5	<2.7	13.7 ^J	<12	<6.1	<6	<6.1	46,000 ^{ABC}	<2.9	<2.7
Benzo(a)pyrene	15	211	470	447 ^{AB}	<2.9	<3.1	11.8 ^J	<12.4	<6.3	<6.2	<6.3	38,500 ^{ABC}	<3.3	<3.2
Benzo(b)fluoranthene	148	2,110	479.3	407 ^A	<3.1	<3.3	<8.7	<17.3	<8.8	<8.7	<8.8	32,600 ^{ABC}	<3.5	<3.3
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	284	<2.3	<2.5	<6.6	<13.2	<6.7	<6.6	<6.7	16,500 ^A	<2.7	<2.5
Benzo(k)fluoranthene	1,480	21,100	870,000	368	<3.3	<3.6	12.1 ^J	<19.2	<9.7	<9.6	<9.7	39,300 ^{AB}	<3.8	<3.6
Chrysene	14,800	211,000	144.6	490 ^C	<3.2	<3.5	15.5 ^J	<16	<8.1	<8.1	<8.1	48,900 ^{AC}	<3.7	3.6 ^J
Dibenz(a,h)anthracene	15	211	38,000	92.8 ^{JA}	<4.8	<5.2	<6.4	<12.7	<6.4	<6.4	<6.4	6,870 ^{AB}	<5.6	<5.3
Fluoranthene	2,290,000	22,000,000	88,877.8	1,180	<8.8	<9.6	19.4	<17.3	<8.8	<8.7	<8.8	133,000 ^C	<10.2	<9.6
Fluorene	2,290,000	22,000,000	14,802.7	106 ^J	<4.4	<4.8	<8.7	<17.3	<8.8	<8.7	<8.8	29,600 ^C	<5.1	<4.8
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	259 ^A	<2.5	<2.7	<6.6	<13.2	<6.7	<6.6	<6.7	17,000 ^{AB}	<2.9	<2.7
Naphthalene	5,150	26,000	658.2	37.8 ^J	<3.1	<3.3	<8.7	<17.3	<8.8	<8.7	<8.8	3,540 ^{JC}	<3.6	<3.4
Phenanthrene	18,000	390,000	1,800	1,170	<3.9	<4.2	<8.7	<17.3	<8.8	<8.7	<8.8	135,000 ^{AC}	<4.5	<4.2
Pyrene	1,720,000	16,500,000	54,132.2	1,020	<3.2	<3.5	13.9 ^J	<17.3	<8.8	<8.7	<8.8	98,400 ^C	<3.7	4.3 ^J
Diesel Range Organics (mg/kg)	--	--	--	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	8.1

Table 15c
CS9 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-912	GP-912	GP-912	GP-913	GP-913	GP-914	GP-914	GP-915	GP-915	GP-915	GP-916
	Direct Contact Pathway		Groundwater Pathway	(3-4)	(3-4) FD	(5-6)	(3-4)	(6-7)	(1-2)	(7-8)	(2-3)	(7-8)	(7-8) FD	(1-2)
	Non-Industrial	Industrial		10/07/11	10/07/11	10/07/11	10/07/11	10/07/11	10/07/11	10/07/11	10/07/11	10/07/11	10/07/11	10/07/11
PAHs (µg/kg)														
1-Methylnaphthalene	15,600	53,100	23,000	17.7 ^J	31.3	<3	3 ^J	<2.8	15.2 ^J	74.7 ^J	<2.7	106	74.7 ^J	<2.7
2-Methylnaphthalene	229,000	2,200,000	20,000	20.3	36.7	<3	4.8 ^J	<2.8	21.8	77.9 ^J	3 ^J	55.9 ^J	44.8 ^J	<2.7
Acenaphthene	3,440,000	33,000,000	38,000	<2.8	<2.8	<2.8	<2.6	<2.6	14.3 ^J	597	3.9 ^J	126	131	<2.5
Acenaphthylene	18,000	360,000	700	4 ^J	6.8 ^J	<3.1	<3	<2.9	20.7	62.9 ^J	<2.8	<16.7	16.6 ^J	<2.9
Anthracene	17,200,000	100,000,000	197,727.3	5 ^J	8.7 ^J	<4.6	<4.4	<4.3	69.2	1,080	7.5 ^J	189	205	<4.2
Benzo(a)anthracene	148	2,110	17,000	17.1 ^J	28.2	<2.8	3.4 ^J	<2.6	281 ^A	2,130 ^{AB}	26.5	240 ^A	223 ^A	19.4
Benzo(a)pyrene	15	211	470	16.1 ^{JA}	27.4 ^A	<3.2	3.7 ^J	<3	345 ^{AB}	2,030 ^{ABC}	26.9 ^A	222 ^{AB}	165 ^A	20.4 ^A
Benzo(b)fluoranthene	148	2,110	479.3	19.5 ^J	37.7	<3.4	3.8 ^J	<3.2	402 ^A	1,940 ^{AC}	27.2	194 ^A	170 ^A	18.2
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	11.9 ^J	23	<2.6	3.5 ^J	<2.4	201	1,250	22.8	126	94.9 ^J	15.4 ^J
Benzo(k)fluoranthene	1,480	21,100	870,000	16.1 ^J	23	<3.6	3.6 ^J	<3.4	238	1,840 ^A	23	143	134	17.3 ^J
Chrysene	14,800	211,000	144.6	21.3	35.4	<3.6	4.4 ^J	<3.4	400 ^C	2,230 ^C	31.8	340 ^C	254 ^C	22.2
Dibenz(a,h)anthracene	15	211	38,000	<5.4	7.3 ^J	<5.3	<5.1	<5	81.5 ^A	439 ^{AB}	7.2 ^J	37.1 ^{JA}	31.7 ^{JA}	<4.9
Fluoranthene	2,290,000	22,000,000	88,877.8	31.3	52.7	<9.8	<9.4	<9.2	722	6,330	52.3	505	524	36
Fluorene	2,290,000	22,000,000	14,802.7	<5	<4.9	<4.9	<4.7	<4.6	13.2 ^J	497	<4.4	289	209	<4.5
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	9.7 ^J	18 ^J	<2.8	2.7 ^J	<2.6	169 ^A	1,170 ^A	17 ^J	83.8 ^J	75.2 ^J	12 ^J
Naphthalene	5,150	26,000	658.2	14 ^J	35.5	<3.4	<3.3	<3.2	13.7 ^J	128 ^J	3.8 ^J	90.8 ^J	63 ^J	<3.1
Phenanthrene	18,000	390,000	1,800	29.7	56.8	<4.3	5.7 ^J	<4.1	322	2,940 ^C	33.8	627	464	15.8 ^J
Pyrene	1,720,000	16,500,000	54,132.2	26.9	46.3	<3.6	5.4 ^J	<3.4	494	4,670	45.5	623	407	29.5
Diesel Range Organics (mg/kg)	--	--	--	NT	NT	5	NT	1.9 ^J	NT	509	NT	1220	589	NT

Table 15c
CS9 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-916	GP-917	GP-917	GP-918	GP-918	GP-919	GP-919	GP-921	GP-922	GP-923
	Direct Contact Pathway		Groundwater Pathway	(8-9)	(2-3)	(6-7)	(2-3)	(6-7)	(3-4)	(6-7)	(6-7)	(6-7)	(6-7)
	Non-Industrial	Industrial		10/07/11	10/10/11	10/10/11	10/10/11	10/10/11	10/10/11	10/10/11	12/22/11	12/22/11	12/22/11
PAHs (µg/kg)													
1-Methylnaphthalene	15,600	53,100	23,000	176 ^J	<2.7	<2.7	3.6 ^J	<2.9	38	<2.9	<3	<3.1	<3
2-Methylnaphthalene	229,000	2,200,000	20,000	191 ^J	<2.7	<2.7	<3	<2.9	45.5	<2.9	<3	<3.1	<3
Acenaphthene	3,440,000	33,000,000	38,000	939	<2.5	<2.5	<2.8	<2.7	19.1 ^J	<2.7	<2.8	<2.8	<2.8
Acenaphthylene	18,000	360,000	700	109 ^J	<2.9	<2.8	<3.2	<3	9.8 ^J	<3	<3.1	<3.2	<3.2
Anthracene	17,200,000	100,000,000	197,727.3	2,560	<4.2	<4.1	<4.6	<4.4	30.7	<4.4	<4.6	<4.7	<4.6
Benzo(a)anthracene	148	2,110	17,000	7,110 ^{AB}	<2.6	<2.5	<2.8	<2.7	73.8	<2.7	3.3 ^J	<2.8	<2.8
Benzo(a)pyrene	15	211	470	6,530 ^{ABC}	<2.9	<2.9	<3.2	<3.1	86.4 ^A	<3.1	4.2 ^J	<3.3	<3.3
Benzo(b)fluoranthene	148	2,110	479.3	6,450 ^{ABC}	<3.1	<3	<3.4	<3.3	79.1	<3.3	3.8 ^J	<3.5	<3.4
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	3,720 ^A	<2.4	<2.3	<2.6	<2.5	52.5	<2.5	3.9 ^J	<2.6	<2.6
Benzo(k)fluoranthene	1,480	21,100	870,000	5,750 ^A	<3.3	<3.2	<3.7	<3.5	80.9	<3.5	5.4 ^J	<3.7	<3.7
Chrysene	14,800	211,000	144.6	7,780 ^C	<3.3	<3.2	<3.6	4.6 ^J	94.1	<3.4	5.8 ^J	<3.6	<3.6
Dibenz(a,h)anthracene	15	211	38,000	1,420 ^{AB}	<4.9	<4.8	<5.4	<5.2	20 ^A	<5.2	<5.3	<5.4	<5.4
Fluoranthene	2,290,000	22,000,000	88,877.8	17,700	<9	<8.7	<9.9	<9.5	165	<9.5	<9.8	<10	<9.9
Fluorene	2,290,000	22,000,000	14,802.7	906	<4.5	<4.4	<4.9	<4.7	18.3 ^J	<4.7	<4.9	<5	<4.9
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	3,590 ^{AB}	<2.6	<2.5	<2.8	<2.7	45.8	<2.7	2.9 ^J	<2.8	<2.8
Naphthalene	5,150	26,000	658.2	237 ^J	<3.1	<3.1	8.6 ^J	<3.3	34.8	<3.3	<3.4	<3.5	<3.5
Phenanthrene	18,000	390,000	1,800	10,400 ^C	<4	<3.8	4.4 ^J	<4.2	170	<4.2	5.7 ^J	<4.4	<4.4
Pyrene	1,720,000	16,500,000	54,132.2	15,400	<3.3	<3.2	<3.6	<3.5	118	<3.5	7.2 ^J	<3.7	<3.6
Diesel Range Organics (mg/kg)	--	--	--	333	NT	8.1	NT	11.1	NA	4.4	NT	NT	NT

Notes:

PAHs = Polycyclic Aromatic Hydrocarbons

mg/kg = Milligrams per kilogram. µg/kg = Micrograms per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

^D = Analyte was detected in the method blank.

-- = No generic RCL established.

DUP/D/FD = Field duplicate.

NA = Not Analyzed.

Generic RCLs June 2014 per WDNR PUB-RR-890.

**Table 15d
CS9 Metals in Soil
Kenosha Engine Plant**

Sample locations are presented numerically

Parameters	Generic RCLs			GP-SL-38	GP-SL-39	GP-SL-40	GP-SL-41	GP-SL-42	GP-SL-43	GP-SL-44	GP-SL-45	GP-SL-46	GP-SL-46	GP-SL-47	GP-SL-48
	Direct Contact Pathway		Groundwater	(2-3)	(1-2)	(1-2)	(1-2)	(1-2)	(2-3)	(2-3)	(1-2)	(2-3)	(2-3) D	(2-3)	(2-3)
	Non-Industrial	Industrial	Pathway	05/19/11	05/19/11	05/19/11	05/20/11	05/20/11	05/20/11	05/19/11	05/20/11	05/20/11	05/20/11	05/20/11	05/20/11
Metals (mg/kg)															
Arsenic	0.613	2.39	0.58	2 ^{JAC}	5 ^{ABC}	4.3 ^{ABC}	17.3 ^{ABC}	4.8 ^{ABC}	4.7 ^{ABC}	7.2 ^{ABC}	3.3 ^{ABC}	3.4 ^{ABC}	4.4 ^{ABC}	3.9 ^{ABC}	5 ^{ABC}
Barium	15,300	100,000	164.8	27.7	69.1	73.4	212 ^C	79.1	81.5	114	52.6	87.6	104	57.5	58.9
Cadmium	70	799	0.752	0.13 ^J	0.77 ^C	0.72	1.7 ^C	0.5	0.51 ^J	1.4 ^C	0.27 ^J	0.22 ^J	0.22 ^J	0.48 ^J	0.72
Chromium	100,000	100,000	360	12.7	16.6	14.9	20.3	17.8	17.7	20.5	13.3	24.8	23.5	12.8	16.5
Copper	3,130	40,900	91.6	9.2	41.8	38.2	37.3	31.2	30	72.9	15.3	15.7	15.1	25.1	139 ^C
Lead	400	800	27	5.8 ^{J-}	110 ^{J-C}	58.4 ^C	107 ^C	85.9 ^C	114 ^C	182 ^{J-C}	10.4	12.9	14.6	19.2	45.3 ^C
Mercury	3.13	3.13	0.42	0.018 ^J	0.074	0.026	0.06	0.08	0.05	0.16	0.015	0.029	0.04	0.073	0.038
Nickel	1,550	19,800	13.1	9.5	14.6 ^C	14.6 ^C	35.1 ^C	15.2 ^C	15.1 ^C	19.6 ^C	13.4 ^C	17.9 ^C	21.4 ^C	12.2	19 ^C
Selenium	391	5,110	0.52	<0.18	0.23 ^J	0.35 ^J	<0.84	0.45 ^J	0.38 ^J	0.59 ^{JC}	<0.19	0.35 ^J	0.41 ^J	<0.19	<0.18
Silver	78.2	5,110	0.85	<0.049	0.055 ^J	0.066 ^J	<0.23	<0.044	<0.053	0.057 ^J	<0.052	<0.05	<0.05	<0.052	<0.049
Zinc	23,500	100,000	--	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

**Table 15d
CS9 Metals in Soil
Kenosha Engine Plant**

Sample locations are presented numerically

Parameters	Generic RCLs			GP-911 (5-6)	GP-912 (5-6)	GP-913 (6-7)	GP-914 (7-8)	GP-915 (7-8)	GP-916 (8-9)	GP-917 (6-7)	GP-918 (6-7)	GP-919 (6-7)	GP-921 (6-7)	GP-922 (6-7)	GP-923 (6-7)	
	Direct Contact Pathway		Groundwater	10/07/11	10/07/11	10/07/11	10/07/11	10/07/11	10/07/11	10/07/11	10/10/11	10/10/11	10/10/11	12/22/11	12/22/11	12/22/11
	Non-Industrial	Industrial	Pathway													
Metals (mg/kg)																
Arsenic	0.613	2.39	0.58	1.8 ^{JAC}	2 ^{JAC}	1.9 ^{JAC}	5.3 ^{ABC}	4.1 ^{ABC}	5.1 ^{ABC}	1.7 ^{JAC}	4 ^{ABC}	2.6 ^{ABC}	10.2 ^{ABC}	6.5 ^{ABC}	2.2 ^{JAC}	
Barium	15,300	100,000	164.8	55.9	34.9	12.6	452 ^C	63.5	64.3	10.5	16.4	47.4	225 ^C	54.3	76	
Cadmium	70	799	0.752	0.083 ^{Jb}	0.11 ^{Jb}	0.18 ^{Jb}	0.77 ^C	0.38 ^J	0.59	0.22 ^J	0.19 ^J	0.22 ^J	0.13 ^J	0.21 ^J	0.08 ^J	
Chromium	100,000	100,000	360	18.8	20.8	7.7	18.3	27.1	16.7	7	10	11.5	23	20.6	20.3	
Copper	3,130	40,900	91.6	9.4	12.3	9.7	158 ^C	36.9	47.3	11.6	12.6	15	17.2	15.3	13.4	
Lead	400	800	27	5.7	7.1	4.8	33.1 ^C	10.8	50.8 ^C	5.2	6	6.9	12.1	8.8	7.8	
Mercury	3.13	3.13	0.42	0.0091	0.013	0.0036 ^{Jb}	0.049	0.01	0.033	0.0051	0.0054	0.0059	0.012	0.013	0.015	
Nickel	1,550	19,800	13.1	15.2 ^C	13.3 ^C	6.8	22.6 ^C	23.6 ^C	17.3 ^C	7.4	9.5	16.2 ^C	21.1 ^C	19.3 ^C	15.6 ^C	
Selenium	391	5,110	0.52	<0.29	<0.3	<0.3	<0.33	<0.36	<0.31	<0.31	0.3 ^J	<0.29	<0.35	<0.3	<0.33	
Silver	78.2	5,110	0.85	<0.086	<0.088	<0.089	<0.099	0.19 ^J	<0.093	<0.092	<0.087	<0.085	<0.1	0.095 ^J	0.11 ^J	
Zinc	23,500	100,000	--	32.5	38.1	36.4	242	127	105	47.4	38.2	44.4	39.7	37.7	38	

Notes:

mg/kg = Milligrams per kilogram. ug/kg = Micrograms per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

^b = Analyte was detected in the method blank.

^{+/-} = Value estimated due to matrix effect (⁺ = biased high) (⁻ = biased low).

-- = No generic RCL established.

DUP/D/FD = Field duplicate.

NA = Not Analyzed.

Generic RCLs June 2014 per WDNR PUB-RR-890.

Table 15e
CS9 Polychlorinated Biphenyls in Soil
Kenosha Engine Plant

Parameters	Generic RCLs			GP-SL-38	GP-SL-40	GP-SL-41	GP-SL-48
	Direct Contact Pathway		Groundwater Pathway	(2-3)	(1-2)	(1-2)	(2-3)
	Non-Industrial	Industrial		05/19/11	05/19/11	05/20/11	05/20/11
PCBs (µg/kg)							
Aroclor 1016	3930	21200	9.4	<27.4	<25.6	<28.1	<26.4
Aroclor 1221	159	589	9.4	<27.4	<25.6	<28.1	<26.4
Aroclor 1232	159	589	9.4	<27.4	<25.6	<28.1	<26.4
Aroclor 1242	221	744	9.4	<27.4	<25.6	<28.1	<26.4
Aroclor 1248	221	744	9.4	<27.4	<25.6	<28.1	<26.4
Aroclor 1254	221	744	9.4	<27.4	<25.6	<28.1	<26.4
Aroclor 1260	221	744	9.4	<27.4	<25.6	<28.1	<26.4
PCB, Total	--	--	--	<27.4	<25.6	<28.1	<26.4

Notes:

PCBs = Polychlorinated Biphenyls

mg/kg = Milligrams per kilogram. µg/kg = Micrograms per kilogram.

^a = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^b = Parameter exceeds Generic RCL for Industrial Direct Contact.

^c = Parameter exceeds Generic RCL for Groundwater Pathway.








^j = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

-- = No generic RCL established.

DUP/D/FD = Field duplicate.

Generic RCLs June 2014 per WDNR PUB-RR-890.



-  MW-XXX EXISTING WATER TABLE MONITORING WELL (MW) OR PIEZOMETER (PZ)
-  MW-XXX ABANDONED MONITORING WELL (MW) OR PIEZOMETER (PZ)
-  GP-XXX SOIL PROBE
-  GP-XXX SOIL PROBE - REFUSAL
-  GP-XXX SOIL PROBE / TEMPORARY MONITORING WELLS
-  GP-XXX PHASE II INVESTIGATION
-  GP-SL-XX INTERIM INVESTIGATION

**CS10 SOIL SAMPLE LOCATIONS
FORMER KENOSHA ENGINE PLANT
KENOSHA, WISCONSIN**

Drawn:	Ila	1-23-2024
Checked:	Ila	1-23-2024
Approved:	Ila	1-23-2024
PROJECT NUMBER	60677460	
FIGURE NUMBER	CS10	

Table 16a
CS10 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-SL-49	GP-SL-49	GP-SL-50	GP-SL-50	GP-SL-51	GP-SL-51	GP-SL-52	GP-SL-52	GP-SL-52	GP-SL-53	GP-SL-53	GP-SL-53
	Direct Contact Pathway		Groundwater Pathway	(2-3)	(26-27)	(1-2)	(22-23)	(1-2)	(25-26)	(1-2)	(1-2) DUP	(25-26)	(1-2)	(6-7)	(22-23)
	Non-Industrial	Industrial		05/23/11	05/23/11	05/20/11	05/20/11	05/23/11	05/23/11	05/23/11	05/23/11	05/23/11	05/23/11	05/23/11	05/23/11
VOCs (µg/kg)															
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	2,300 ^C	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	1,190	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	112 ^C	86.5 ^C	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	381	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	1,230	<25
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	34.6 ^J	<25	<25	<25	<25	38.3 ^J	2,270 ^C	<25
n-Butylbenzene	108,000	108,000	--	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<202	<40.4
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	2,200	<25
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	1,610	<25
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	3,100	<25
Tetrachloroethene	30,700	153,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25
Trichloroethene	1,260	8,810	3.6	469 ^C	97.3 ^C	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25
Xylene (Total)	258,000	258,000	3,940	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<387	<77.4

Table 16a
CS10 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-SL-54	GP-SL-54	GP-SL-54	GP-SL-55	GP-SL-55	GP-SL-55	GP-SL-56	GP-SL-56	GP-SL-56	GP-SL-57	GP-SL-57	GP-SL-57
	Direct Contact Pathway		Groundwater Pathway	(1-2)	(6-7)	(23-24)	(1-2)	(6-7)	(25-26)	(1-2)	(6-7)	(22-23)	(1-2)	(10-11)	(23-24)
	Non-Industrial	Industrial		05/23/11	05/23/11	05/23/11	05/23/11	05/23/11	05/23/11	05/23/11	05/23/11	05/23/11	05/23/11	05/23/11	05/23/11
VOCs (µg/kg)															
1,1,1-Trichloroethane	640,000	640,000	140.2	<27.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<27.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	41.2 ^J
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	293	<25	<25	40.9 ^J	50.5 ^J	<25	<25	<25	<25	<25	59.8 ^J	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	90.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<27.2	<25	<25	<25	<25	38.1 ^J	<25	<25	<25	318 ^C	<25	<25
Ethylbenzene	7,470	37,000	1,570	73.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	68.4 ^J	48.6 ^J	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	255	264	<25	62.3 ^J	64.7 ^J	<25	30.5 ^J	<25	<25	778 ^C	<25	<25
n-Butylbenzene	108,000	108,000	--	<43.9	125	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4
n-Propylbenzene	264,000	264,000	--	89.8	96.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	--	52.3 ^J	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	--	70.7 ^J	123	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	--	<27.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	73 ^J	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<27.2	<25	<25	<25	<25	<25	<25	<25	<25	44.2 ^J	<25	<25
Trichloroethene	1,260	8,810	3.6	40.5 ^{JC}	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	2,170 ^{AC}
Vinyl chloride	67	2,030	0.1	<27.2	<25	<25	<25	<25	<25	<25	<25	<25	48 ^{JC}	<25	<25
Xylene (Total)	258,000	258,000	3,940	343	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4

Table 16a
CS10 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-SL-58	GP-SL-58	GP-SL-58	GP-SL-58	GP-SL-58	GP-SL-72	GP-SL-72	GP-SL-72	GP-SL-73	GP-SL-73	GP-SL-73	GP-SL-73
	Direct Contact Pathway		Groundwater Pathway	(1-2)	(10-11)	(10-11) DUP	(23-24)	(23-24) DUP	(2-3)	(22-23)	(22-23) DUP	(2-3)	(6-7)	(6-7) DUP	(20-21)
	Non-Industrial	Industrial		05/23/11	05/23/11	05/23/11	05/23/11	05/23/11	05/24/11	05/24/11	05/24/11	05/24/11	05/24/11	05/24/11	05/24/11
VOCs (µg/kg)															
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<250	<500	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<250	<500	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<250	<500	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<250	<500	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<250	<500	<25	<25	<25	<25	<25	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<250	<500	<25	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	1,130	1,120	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	35.3 ^J	<250	<500	<25	<25	959 ^C	<25	<25	<25	201	179	<25
n-Butylbenzene	108,000	108,000	--	<40.4	2,700	2,960	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4
n-Propylbenzene	264,000	264,000	--	<25	2,390	2,400	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	--	<25	759	652 ^J	<25	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	--	<25	1,690	1,660	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	--	<25	<250	<500	<25	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<250	<500	<25	<25	<25	<25	<25	<25	<25	<25	36.2 ^J
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<250	<500	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<250	<500	<25	<25	<25	<25	<25	<25	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<250	<500	<25	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<77.4	<774	<1550	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4

Table 16a
CS10 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-SL-74 (1-2) 05/24/11	GP-SL-74 (18-19) 05/24/11	GP-SL-74 (18-19) DUP 05/24/11	GP-1011 (2-3) 05/02/12	GP-1011 (7-8) 05/02/12	GP-1011 (18-19) 05/02/12	GP-1012 (2-4) 05/02/12	GP-1012 (8-9) 05/02/12	GP-1012 (22-23) 05/02/12	GP-1013 (3-4) 05/02/12	GP-1013 (7-8) 05/02/12	GP-1013 (19-20) 05/02/12
	Direct Contact Pathway		Groundwater Pathway												
	Non-Industrial	Industrial													
VOCs (µg/kg)															
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<50	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	51.5 ^J	<50	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	124	<50	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	46.5 ^J	<50	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<25	<25	<50	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	30.7 ^J	<50	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	<25	<25	<25	50.3 ^J	89.3 ^J	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	<25	<25	216	<50	<25	55.6 ^J	<25	<25
n-Butylbenzene	108,000	108,000	--	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	130	556	<40.4	<40.4	<40.4	<40.4
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	<25	34.1 ^J	<25	136	202	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	<25	<25	<25	32.5 ^J	80.8 ^J	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<25	79.7	<25	45.7 ^J	279	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	--	<25	<25	<25	<25	<25	<25	<25	<50	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	74.4	<50	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<50	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	<25	<25	<25	<50	<25	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<50	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	225	<155	<77.4	<77.4	<77.4	<77.4

Table 16a
CS10 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-1014	GP-1014	GP-1014	GP-1015	GP-1015	GP-1015	GP-1016	GP-1016	GP-1016	GP-1016	GP-1017	GP-1017
	Direct Contact Pathway		Groundwater Pathway	(3-4)	(8-10)	(20-21)	(2-3)	(14-15)	(19-20)	(3-4)	(6.5-7.5)	(17-18)	(17-18) FD	(2-3)	(6-8)
	Non-Industrial	Industrial		05/02/12	05/02/12	05/02/12	05/02/12	05/02/12	05/02/12	05/02/12	05/03/12	05/03/12	05/03/12	05/03/12	05/03/12
VOCs (µg/kg)															
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	56.6 ^J	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	<25	<25	3,900 ^C	284	<25	<25	<25	<25
n-Butylbenzene	108,000	108,000	--	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	<25	<25	<25	46.5 ^J	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	--	<25	30.8 ^J	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	405 ^C	<25	<25	<25	<25	65.9 ^{CJ}	<25	<25	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4

Table 16a
CS10 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-1017	GP-1018	GP-1018	GP-1018	GP-1019	GP-1019	GP-1019	GP-1020	GP-1020	GP-1020	GP-1020	GP-1021	
	Direct Contact Pathway		Groundwater Pathway	(22-23)	(3-4)	(7-8)	(23-24)	(3-4)	(6-7)	(22-23)	(2-3)	(6-7)	(11-12)	(20-21)	(2-3)	
	Non-Industrial	Industrial		05/03/12	05/03/12	05/03/12	05/03/12	05/03/12	05/03/12	05/03/12	05/03/12	05/02/12	05/02/12	05/02/12	05/02/12	05/02/12
VOCs (µg/kg)																
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5	<250	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5	<250	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	32.1 ^J	<62.5	433 ^J	<25	198
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5	<250	<25	51.5
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5	<250	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5	<250	<25	40.8 ^J
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	181	1,470	<25	104
Naphthalene	5,150	26,000	658.7	<25	<25	<25	<25	578	<25	<25	136	<62.5	14,700 ^{AC}	<25	4,760 ^C	
n-Butylbenzene	108,000	108,000	--	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	1,000	3,740	<40.4	403
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	438	3,120	<25	233
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	122 ^J	<250	<25	128
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	410	1,580	<25	134
Tetrachloroethene	30,700	153,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5	<250	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5	<250	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5	<250	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5	<250	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<62.5	<250	<25	<25
Xylene (Total)	258,000	258,000	3,940	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<194	<774	<77.4	191 ^J

Table 16a
CS10 Detected Volatile Organic Compounds in Soil from Geoprobe Locations
Kenosha Engine Plant

Parameters	Generic RCLs			GP-1021 (6-7) 05/02/12	GP-1021 (11.5-12.5) 05/02/12	GP-1022 (2-3) 05/02/12	GP-1022 (5-6) 05/02/12	GP-1023 (2-3) 05/03/12	GP-1023 (7-8) 05/03/12	GP-1024 (3-4) 05/03/12	GP-1024 (6-7) 05/03/12	GP-1025 (3-4) 05/03/12	GP-1025 (6.5-7.5) 05/03/12	GP-1026 (3-4) 05/03/12	GP-1026 (8-10) 05/03/12	GP-1026 (11-12) 05/03/12	
	Direct Contact Pathway		Groundwater Pathway														
	Non-Industrial	Industrial															
VOCs (µg/kg)																	
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<50	<25	<25	<25	131	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	171	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	64.6 ^J	<25	<25	<25	<25	<25	<25	<25	55.1 ^J	<25	128	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	55.1 ^J	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	2,290 ^C
Ethylbenzene	7,470	37,000	1,570	<25	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	65.5 ^J	508	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	1,520 ^C	7,040 ^{AC}	<25	<25	<25	<25	2,060 ^C	<25	141	115	32.7 ^J	1,430 ^C	<25	<25
n-Butylbenzene	108,000	108,000	--	178	1,080	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	53.3 ^J	<40.4	<40.4	<40.4	<40.4
n-Propylbenzene	264,000	264,000	--	135	855	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	--	79	264	<25	<25	<25	<25	<25	<25	<25	44.4 ^J	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	--	77.7	583	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	--	<25	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	185 ^C
Trichloroethene	1,260	8,810	3.6	<25	<50	<25	<25	<25	<25	155 ^C	<25	<25	<25	<25	<25	<25	<25
Vinyl chloride	67	2,030	0.1	<25	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<77.4	<155	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	99.2 ^J	<77.4	<77.4

Notes:

VOCs = Volatile Organic Compounds

mg/kg = Milligrams per kilogram. ug/kg = Micrograms per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

-- = No generic RCL established.

DUP/D/FD = Field duplicate.

Generic RCLs June 2014 per WDNR PUB-RR-890.

Table 16b
CS10 Detected Volatile Organic Compounds in Soil from Monitoring Well and Piezometer Locations
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-63 (2-3)	PZ-63 (8-9)	PZ-63 (22.5-23.5)	PZ-65 (1.5-2.5)	PZ-65 (1.5-2.5) FD	PZ-65 (6-7)	PZ-65 (23-24)	PZ-78 (1.5-2.5)	PZ-78 (6.5-7.5)	PZ-78 (21-22)	MW-108 (6-7)	PZ-1000 (2-4)
	Direct Contact Pathway		Groundwater	05/02/12	05/02/12	05/02/12	05/01/12	05/01/12	05/01/12	05/01/12	05/01/12	05/01/12	05/01/12	12/01/10	05/02/12
	Non-Industrial	Industrial	Pathway												
VOCs (µg/kg)															
1,1,1-Trichloroethane	640,000	640,000	140.2	49.1 ^J	147 ^C	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	72.3	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	<25	<25	56.1 ^J	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Bromoform	61,500	218,000	2.3	<25.9	<25.9	<25.9	<25.9	<25.9	<25.9	<25.9	<25.9	246 ^C	<25.9	<25.9	<25.9
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	192 ^C	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	93.8 ^C	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<25	<25	<25	87	125	<25	<25	164	<25	<25	<25	44.2 ^J
n-Butylbenzene	108,000	108,000	----	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4
n-Propylbenzene	264,000	264,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	4.5	<25	99 ^C	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	113 ^C	6,210 ^{AC}	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<77.4	<75.0	<77.4

Table 16b
CS10 Detected Volatile Organic Compounds in Soil from Monitoring Well and Piezometer Locations
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-1000 (6-7) 05/02/12	PZ-1000 (11-12) 05/02/12	PZ-1000 (24-25) 05/02/12	PZ-1001 (1.5-2.5) 04/30/12	PZ-1001 (5.5-6.5) 04/30/12	PZ-1001 (19-20) 04/30/12	MW-1002 (2-3) 04/30/12	MW-1002 (7-8) 04/30/12	MW-1003 (1.5-2.5) 04/30/12	MW-1003 (6-7) 04/30/12	MW-1003 (6-7) FD 04/30/12	PZ-1004 (1.5-2.5) 05/01/12
	Direct Contact Pathway		Groundwater Pathway												
	Non-Industrial	Industrial													
VOCs (µg/kg)															
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	186^C	<312	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	52.4^J	<25	<25	<25	<25	<25	<312	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	163	<25	<25	<25	<25	<25	<312	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	61.7^J	<25	<25	<25	<25	<25	<312	<25	<25	<25	<25
Bromoform	61,500	218,000	2.3	<25.9	<25.9	<25.9	<25.9	<25.9	<25.9	<25.9	<324	<25.9	<25.9	<25.9	<25.9
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	202^J	<25	<25	<25	<25	<25	<312	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	58.3^J	<25	<25	<25	<25	<25	<312	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	145	<25	<25	<25	<25	<25	397^J	<25	<25	<25	<25
Methylene Chloride	60,700	1,070,000	2.6	<25	<25	<25	<25	<25	<25	<25	628^{JCb}	29^{JCb}	<25	<25	81.2^C
Naphthalene	5,150	26,000	658.7	<25	197	<25	<25	<25	<25	<25	2,530^C	<25	<25	<25	34.1^J
n-Butylbenzene	108,000	108,000	----	<40.4	287	<40.4	<40.4	<40.4	<40.4	<40.4	1,760	<40.4	<40.4	<40.4	<40.4
n-Propylbenzene	264,000	264,000	----	<25	175	<25	<25	<25	<25	<25	921	<25	<25	<25	<25
p-Isopropyltoluene	162,000	162,000	----	<25	195	<25	<25	<25	<25	<25	<312	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	----	<25	161	<25	<25	<25	<25	<25	875	<25	<25	<25	<25
Tetrachloroethene	30,700	153,000	4.5	<25	<25	<25	<25	<25	<25	46^{Jc}	<312	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	35.8^J	<25	<25	<25	<25	<25	<312	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25	<312	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	<25	<25	<25	<25	<25	<25	<25	<312	<25	<25	<25	49.4^{Jc}
Xylene (Total)	258,000	258,000	3,940	<77.4	305	<77.4	<77.4	<77.4	<77.4	<77.4	<968	<77.4	<77.4	<77.4	<77.4

Table 16b
CS10 Detected Volatile Organic Compounds in Soil from Monitoring Well and Piezometer Locations
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-1004	PZ-1004	MW-1005	MW-1005	MW-1006	MW-1006	MW-1006
	Direct Contact Pathway		Groundwater	(5.5-6.5)	(22-23)	(2-3)	(5-6)	(3-4)	(7-8)	(10.5-11.5)
	Non-Industrial	Industrial	Pathway	05/01/12	05/01/12	05/02/12	05/02/12	04/22/14	04/22/14	04/22/14
VOCs (µg/kg)										
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	4,720	23,700	482.8	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	89,800	219,000	1,382.10	<25	<25	29.8 ^J	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1,382.10	<25	<25	<25	<25	<25	<25	<25
Bromoform	61,500	218,000	2.3	<25.9	<25.9	<25.9	<25.9	<25	<25	<25
cis-1,2-Dichloroethene	156,000	2,040,000	41.2	<25	<25	<25	<25	<25	<25	<25
Ethylbenzene	7,470	37,000	1,570	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	----	<25	<25	<25	<25	<25	103	<25
Methylene Chloride	60,700	1,070,000	2.6	77 ^C	82 ^C	<25	<25	<25	<25	<25
Naphthalene	5,150	26,000	658.7	<25	<25	35.7 ^J	<25	<40	251 ^J	<40
n-Butylbenzene	108,000	108,000	----	<40.4	<40.4	<40.4	<40.4	<25	253	<25
n-Propylbenzene	264,000	264,000	----	<25	<25	<25	<25	<25	162	<25
p-Isopropyltoluene	162,000	162,000	----	<25	<25	<25	<25	<25	44.1 ^J	<25
sec-Butylbenzene	145,000	145,000	----	<25	<25	<25	<25	<25	125	<25
Tetrachloroethene	30,700	153,000	4.5	<25	<25	<25	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,670,000	58.8	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	8,810	3.6	35 ^{JC}	<25	<25	<25	<25	<25	<25
Xylene (Total)	258,000	258,000	3,940	<77.4	<77.4	<77.4	<77.4	<75	<75	<75

Notes:

VOCs = Volatile Organic Compounds

mg/kg = Milligrams per kilogram. µg/kg = Micrograms per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

^b = Analyte was detected in the method blank.

-- = No generic RCL established.

DUP/D/FD = Field duplicate.

Generic RCLs June 2014 per WDNR PUB-RR-890.

Table 16c
CS10 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-SL-49	GP-SL-50	GP-SL-51	GP-SL-52	GP-SL-52	GP-SL-53	GP-SL-53	GP-SL-54	GP-SL-54	GP-SL-55	GP-SL-56	GP-SL-57
	Direct Contact Pathway		Groundwater Pathway	(2-3)	(1-2)	(1-2)	(1-2)	(1-2) D	(1-2)	(6-7)	(1-2)	(6-7)	(1-2)	(1-2)	(1-2)
	Non-Industrial	Industrial		05/23/11	05/20/11	05/23/11	05/23/11	05/23/11	05/23/11	05/23/11	05/23/11	05/23/11	05/23/11	05/23/11	05/23/11
PAHs (µg/kg)															
1-Methylnaphthalene	15,600	53,100	23,000	13.2 ^J	<2.7	<2.7	<2.7	<2.7	40.8	8,670	727	4180	70.3 ^J	34.4 ^J	321 ^J
2-Methylnaphthalene	229,000	2,200,000	20,000	14.4 ^J	<2.7	<2.7	<2.7	<2.7	54.3	1,320	969	3430	105	61.5 ^J	532
Acenaphthene	3,440,000	33,000,000	38,000	46.8	<2.4	<2.5	<2.5	<2.5	17.8	2,440	24 ^J	456 ^J	<13.4	<28.1	1270
Acenaphthylene	18,000	360,000	700	6.1 ^J	<2.8	<2.9	<2.8	<2.8	4.2 ^J	369 ^J	57.3 ^J	225 ^J	<15.2	<31.9	<59.2
Anthracene	17,200,000	100,000,000	197,727.3	64.8	<4.1	<4.2	<4.1	<4.1	32.7	514 ^J	242	313 ^J	48.4 ^J	98.1 ^J	1260
Benzo(a)anthracene	148	2,110	17,000	172 ^A	9.3 ^J	<2.6	3.2 ^J	<2.5	71.2	210 ^{JA}	226 ^A	298 ^{JA}	171 ^A	304 ^A	1,390 ^A
Benzo(a)pyrene	15	211	470	195 ^A	10.1 ^J	<2.9	<2.9	<2.9	83.7 ^A	155 ^{JA}	134 ^A	<199	147 ^A	147 ^{JA}	1,150 ^{ABC}
Benzo(b)fluoranthene	148	2,110	479.3	223 ^A	11.2 ^J	<3.1	<3.1	<3.1	88.3	131 ^J	180 ^A	<211	143	122 ^J	1,370 ^{AC}
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	60.3	9.6 ^J	<2.4	<2.4	<2.3	56.8	107 ^J	104	<161	103	70.3 ^J	394
Benzo(k)fluoranthene	1,480	21,100	870,000	179	11.4 ^J	<3.3	<3.3	<3.3	65.7	<111	94.5	<226	137	146 ^J	1,060
Chrysene	14,800	211,000	144.6	203	11.7 ^J	<3.3	3.6 ^J	<3.2	75.4	345 ^{JC}	255 ^C	797 ^{JC}	192 ^C	619 ^C	1,480 ^C
Dibenz(a,h)anthracene	15	211	38,000	26.5 ^A	<4.7	<4.9	<4.9	<4.8	17.3 ^A	<162	34 ^{JA}	<332	27.6 ^{JA}	<54.5	134 ^{JA}
Fluoranthene	2,290,000	22,000,000	88,877.8	555	18.9	<9	<8.9	<8.9	189	469 ^J	343	757 ^J	348	212	6,880
Fluorene	2,290,000	22,000,000	14,802.7	46.5	<4.3	<4.5	<4.4	<4.4	14.3 ^J	1930	44.9 ^J	964 ^J	<23.8	<49.8	763
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	65.8	7.1 ^J	<2.6	<2.5	<2.5	46.7	<84.7	82.1 ^J	<173	80.4 ^J	66.6 ^J	391 ^A
Naphthalene	5,150	26,000	658.2	23.9	<3	<3.1	<3.1	<3.1	23.6	1,300 ^C	487	1,010 ^{JC}	65.8 ^J	56.3 ^J	1,240 ^C
Phenanthrene	18,000	390,000	1,800	274	9.7 ^J	<3.9	6.5 ^J	4.9 ^J	136	4,930 ^C	968	2,930 ^C	232	324	7,050 ^C
Pyrene	1,720,000	16,500,000	54,132.2	325	14.4 ^J	<3.3	5.9 ^J	4.2 ^J	148	787	609	631 ^J	252	578	5,050
Diesel Range Organics (mg/kg)	--	--	--	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

Table 16c
CS10 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-SL-58	GP-SL-72	GP-SL-73	GP-SL-74	PZ-63	PZ-63	PZ-65	PZ-65	PZ-65	PZ-78	PZ-78	MW-108
	Direct Contact Pathway		Groundwater Pathway	(1-2)	(2-3)	(2-3)	(1-2)	(2-3)	(8-9)	(1.5-2.5)	(1.5-2.5) FD	(6-7)	(1.5-2.5)	(6.5-7.5)	(6-7)
	Non-Industrial	Industrial		05/23/11	05/24/11	05/24/11	05/24/11	05/02/12	05/02/12	05/01/12	05/01/12	05/01/12	05/01/12	05/01/12	12/01/10
PAHs (µg/kg)															
1-Methylnaphthalene	15,600	53,100	23,000	30.5 ^J	337 ^J	23.4 ^J	<2.7	<2.7	<2.8	<55.7	73.5 ^J	68.5 ^J	332 ^J	<2.9	<2.9
2-Methylnaphthalene	229,000	2,200,000	20,000	34.8 ^J	497 ^J	<14.8	<2.7	<2.7	<2.8	<55.7	77.9 ^J	65.1 ^J	428	<2.9	<2.9
Acenaphthene	3,440,000	33,000,000	38,000	26.8 ^J	1010	15.8 ^J	<2.5	<2.5	7.1 ^J	167 ^J	377 ^J	454	2,150	13.6 ^J	<2.6
Acenaphthylene	18,000	360,000	700	44.9 ^J	187 ^J	17.8 ^J	<2.8	<2.8	<2.9	503	167 ^J	<63.3	92.2 ^J	<3	<3.0
Anthracene	17,200,000	100,000,000	197,727.3	47.7 ^J	1,710	<22.5	<4.1	<4.1	<4.3	2,580	1,150	996	3,600	37.1	<4.4
Benzo(a)anthracene	148	2,110	17,000	197 ^A	2,620 ^{AB}	17.3 ^J	<2.5	<2.5	3 ^J	5,000 ^{AB}	2,560 ^{AB}	1,580 ^A	6,790 ^{AB}	53.5	<2.7
Benzo(a)pyrene	15	211	470	453 ^{AB}	3,110 ^{ABC}	<15.9	<2.9	<2.9	<3	5,370 ^{ABC}	2,460 ^{ABC}	1,460 ^{ABC}	7,050 ^{ABC}	48.4 ^A	<3.1
Benzo(b)fluoranthene	148	2,110	479.3	329 ^A	3,170 ^{ABC}	<16.8	<3	<3	<3.2	5,540 ^{ABC}	2,560 ^{ABC}	1,360 ^{AC}	7,550 ^{ABC}	45.2	10 ^{Jb}
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	<13.5	975	<12.8	<2.3	<2.3	<2.4	2,730 ^A	1,700	882	4,440 ^A	19.2	<2.5
Benzo(k)fluoranthene	1,480	21,100	870,000	214	3,020 ^A	<18	<3.3	<3.3	<3.4	5,060 ^A	2,260 ^A	1,330	6,120 ^A	41.2	<3.5
Chrysene	14,800	211,000	144.6	383 ^C	3,140 ^C	105	3.3 ^J	4.1 ^J	6.9 ^J	6,190 ^C	2,710 ^C	1,730 ^C	7,610 ^C	57.4	<3.4
Dibenz(a,h)anthracene	15	211	38,000	<27.9	381 ^{AB}	<26.4	<4.8	<4.8	<5	1,090 ^{AB}	592 ^{AB}	319 ^{ABJ}	1,700 ^{AB}	8 ^J	<5.1
Fluoranthene	2,290,000	22,000,000	88,877.8	562	11,600	<48.5	<8.8	<8.8	<9.2	7,880	6,260	4,150	15,500	119	<9.4
Fluorene	2,290,000	22,000,000	14,802.7	<25.5	1,390	84.8 ^J	<4.4	<4.4	<4.6	235 ^J	407	458	1,930	8.7 ^J	<4.7
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	<14.6	1,080 ^A	<13.8	<2.5	<2.5	<2.6	2,700 ^{AB}	1,530 ^A	815 ^A	4,100 ^{AB}	19.2	<2.7
Naphthalene	5,150	26,000	658.2	37.7 ^J	1,270 ^C	<17	<3.1	<3.1	<3.2	111 ^J	114 ^J	83.1 ^J	588	<3.3	<3.3
Phenanthrene	18,000	390,000	1,800	235	13,000 ^C	177	5.7 ^J	<3.9	<4.1	2,570 ^C	4,340 ^C	2,900 ^C	13,600 ^C	51.4	<4.1
Pyrene	1,720,000	16,500,000	54,132.2	947	8,460	163	4.6 ^J	3.4 ^J	<3.4	7,910	5,230	3,310	13,400	110	<3.4
Diesel Range Organics (mg/kg)	--	--	--	NT	NT	NT	NT	16.9	35.8	NT	NT	NT	NT	NT	NT

Table 16c
CS10 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			PZ-1000	PZ-1000	PZ-1001	PZ-1001	MW-1002	MW-1002	MW-1003	MW-1003	MW-1003	PZ-1004	PZ-1004	MW-1005
	Direct Contact Pathway		Groundwater Pathway	(2-4)	(6-7)	(1.5-2.5)	(5.5-6.5)	(2-3)	(7-8)	(1.5-2.5)	(6-7)	(6-7) FD	(1.5-2.5)	(5.5-6.5)	(2-3)
	Non-Industrial	Industrial		05/02/12	05/02/12	04/30/12	04/30/12	04/30/12	04/30/12	04/30/12	04/30/12	04/30/12	04/30/12	05/01/12	05/01/12
PAHs (µg/kg)															
1-Methylnaphthalene	15,600	53,100	23,000	260 ^J	<29.3	<2.8	<5.4	3,700	24,800 ^C	8.4 ^J	<2.6	<2.6	63.9 ^J	<2.9	232
2-Methylnaphthalene	229,000	2,200,000	20,000	425	<29.3	<2.8	<5.4	4,420	8,760	3.2 ^J	<2.6	<2.6	69.7 ^J	<2.9	351
Acenaphthene	3,440,000	33,000,000	38,000	109 ^J	<27	<2.6	<5	2,620	3,100	<2.7	<2.4	<2.4	421	<2.7	28.6 ^J
Acenaphthylene	18,000	360,000	700	71.2 ^J	<30.6	<3	5.8 ^J	627	1,040 ^C	<3	<2.8	<2.8	70.9 ^J	<3	19 ^J
Anthracene	17,200,000	100,000,000	197,727.3	167 ^J	<44.7	<4.3	<8.2	855	1,140	<4.4	<4	<4	1,490	<4.4	71 ^J
Benzo(a)anthracene	148	2,110	17,000	618 ^{AB}	41.7 ^J	14 ^J	<5	164 ^{AJ}	<124	<2.7	<2.5	<2.5	2,680 ^{AB}	<2.7	164 ^A
Benzo(a)pyrene	15	211	470	303 ^{ABJ}	<31.5	7.6 ^J	152 ^A	94.1 ^{AJ}	<143	<3.1	<2.8	<2.8	2,400 ^{ABC}	3.2 ^J	135 ^A
Benzo(b)fluoranthene	148	2,110	479.3	381 ^A	<33.2	<3.2	<6.1	48.7 ^J	<151	<3.3	<3	<3	2,200 ^{ABC}	<3.3	186 ^A
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	189 ^J	<25.4	17.8 ^J	37.4	43.9 ^J	<115	<2.5	3 ^J	<2.3	1,080	3.1 ^J	101
Benzo(k)fluoranthene	1,480	21,100	870,000	240 ^J	<35.7	18.8	<6.5	49.1 ^J	<162	<3.5	<3.2	<3.2	2,410 ^A	<3.5	142
Chrysene	14,800	211,000	144.6	1,660 ^C	184 ^{JC}	90	248 ^C	209 ^C	<158	13.8 ^J	6.5 ^J	3.5 ^J	2,730 ^C	6 ^J	199 ^C
Dibenz(a,h)anthracene	15	211	38,000	<102	<52.3	8.9 ^J	<9.6	<47.8	<238	<5.2	<4.7	<4.7	481 ^{AB}	<5.1	35.1 ^{AJ}
Fluoranthene	2,290,000	22,000,000	88,877.8	342 ^J	<96.1	11.6 ^J	<17.6	199	<437	<9.5	<8.6	<8.7	6,120	<9.4	273
Fluorene	2,290,000	22,000,000	14,802.7	330 ^J	<47.8	<4.6	<8.8	3,240	3,200	<4.7	<4.3	<4.3	441	<4.7	<24.4
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	<53.2	<27.3	9 ^J	8.1 ^J	<24.9	<124	<2.7	<2.5	<2.5	1,140 ^A	<2.7	82.1 ^J
Naphthalene	5,150	26,000	658.2	229 ^J	<33.6	<3.2	<6.2	2,230 ^C	2,590 ^C	<3.3	<3	<3	89.8 ^J	<3.3	148
Phenanthrene	18,000	390,000	1,800	1,110	<42.2	12.6 ^J	16.8 ^J	1,140	8,870 ^C	8 ^J	4.6 ^J	<3.8	4,010 ^C	<4.1	309
Pyrene	1,720,000	16,500,000	54,132.2	1,120	<35.2	31.7	32.3 ^J	501	351 ^J	10.4 ^J	<3.2	<3.2	5,060	4.7 ^J	286
Diesel Range Organics (mg/kg)	--	--	--	1,890	3,260	795	2,330	NT	NT	9.4	52.4	54.9	41.9	19.2	388

Table 16c
CS10 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			MW-1005	MW-1006	GP-1011	GP-1011	GP-1012	GP-1012	GP-1013	GP-1013	GP-1014	GP-1014	GP-1015	GP-1016
	Direct Contact Pathway		Groundwater Pathway	(5-6)	(3-4)	(2-3)	(7-8)	(2-4)	(8-9)	(3-4)	(7-8)	(3-4)	(8-10)	(2-3)	(3-4)
	Non-Industrial	Industrial		05/02/12	04/22/14	05/02/12	05/02/12	05/02/12	05/02/12	05/02/12	05/02/12	05/02/12	05/02/12	05/02/12	05/03/12
PAHs (µg/kg)															
1-Methylnaphthalene	15,600	53,100	23,000	44 ^J	<9.4	<2.7	193 ^J	144	5,810	31	<2.7	<2.6	<2.8	<18.3	1,470
2-Methylnaphthalene	229,000	2,200,000	20,000	55.1 ^J	<9.4	<2.7	232	103	1,050	34.9	<2.7	<2.6	<2.8	21.5 ^J	1,250
Acenaphthene	3,440,000	33,000,000	38,000	58 ^J	<9.4	<2.5	317	37.8	1,500	53.4	<2.5	<2.4	<2.6	81.1 ^J	3,570
Acenaphthylene	18,000	360,000	700	31.2 ^J	<8.5	<2.9	208	16.7 ^J	495	5.9 ^J	<2.9	<2.8	<3	<19.1	203 ^J
Anthracene	17,200,000	100,000,000	197,727.3	72.5 ^J	<9.8	<4.2	211	25	503	46.4	<4.2	<4	<4.3	99.4 ^J	7,640
Benzo(a)anthracene	148	2,110	17,000	158 ^{AJ}	<6.6	<2.5	58.1 ^J	30.1	106 ^J	73.9	<2.6	7.7 ^J	<2.6	384 ^A	10,700 ^{AB}
Benzo(a)pyrene	15	211	470	137 ^{AJ}	<6.8	<2.9	<32.1	26.9 ^A	<65.8	69.4 ^A	<2.9	5.9 ^J	<3	323 ^{AB}	9,660 ^{ABC}
Benzo(b)fluoranthene	148	2,110	479.3	192 ^A	<9.4	<3.1	36.8 ^J	31.8	<69.5	92.7	<3.1	5.9 ^J	<3.2	362 ^A	9,360 ^{ABC}
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	318	<7.2	<2.4	52 ^J	19.3	<53.1	28.3	<2.4	2.7 ^J	<2.5	127	5,080 ^A
Benzo(k)fluoranthene	1,480	21,100	870,000	135 ^J	<10.5	<3.3	<36.5	27.2	<74.7	79.5	<3.3	5.9 ^J	<3.5	314	9,610 ^A
Chrysene	14,800	211,000	144.6	536 ^C	<8.7	<3.2	320 ^C	63	216 ^{JC}	93.3	<3.3	8.1 ^J	<3.4	449 ^C	11,400 ^C
Dibenz(a,h)anthracene	15	211	38,000	305 ^{AB}	<6.9	<4.9	<53.4	6.4 ^J	<109	11 ^J	<4.9	<4.7	<5.1	51.5 ^{AJ}	1,980 ^{AB}
Fluoranthene	2,290,000	22,000,000	88,877.8	154 ^J	<9.4	<9	<98.2	29	<201	175	<9	19.1	<9.3	1370	29,900
Fluorene	2,290,000	22,000,000	14,802.7	168 ^J	<9.4	<4.5	861	34.5	1320	46.4	<4.5	<4.3	<4.6	<29.8	2,240
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	338 ^A	<7.2	<2.5	<27.9	13.2	<57.1	27.8	<2.6	2.6 ^J	<2.6	125	5,020 ^{AB}
Naphthalene	5,150	26,000	658.2	37.4 ^J	<9.4	<3.1	118 ^J	62	496	39.5	<3.2	<3	<3.3	24.9 ^J	1,820 ^C
Phenanthrene	18,000	390,000	1,800	64 ^J	<9.4	<3.9	<43.2	83.6	2,800 ^C	202	<4	12.9 ^J	<4.1	267	27,300 ^{AC}
Pyrene	1,720,000	16,500,000	54,132.2	573	10.9 ^J	<3.3	301	83.3	614	197	<3.3	15.1 ^J	<3.4	1,100	22,300
Diesel Range Organics (mg/kg)	--	--	--	4,590	NT	<1.6	3,940	1,050	2,840	NT	NT	3.8	52.8	350	NT

Table 16c
CS10 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-1016	GP-1017	GP-1017	GP-1018	GP-1018	GP-1019	GP-1019	GP-1020	GP-1020	GP-1021	GP-1021	GP-1022
	Direct Contact Pathway		Groundwater	(6.5-7.5)	(2-3)	(6-8)	(3-4)	(7-8)	(3-4)	(6-7)	(2-3)	(6-7)	(2-3)	(6-7)	(2-3)
	Non-Industrial	Industrial	Pathway	05/03/12	05/03/12	05/03/12	05/03/12	05/03/12	05/03/12	05/03/12	05/02/12	05/02/12	05/02/12	05/02/12	05/02/12
PAHs (µg/kg)															
1-Methylnaphthalene	15,600	53,100	23,000	160	24.8 ^J	5.2 ^J	9.8 ^J	<3	193 ^J	4.9 ^J	2,030	23,300 ^C	8,180	1,820	<2.6
2-Methylnaphthalene	229,000	2,200,000	20,000	255	33.5 ^J	6.5 ^J	10.4 ^J	<3	256 ^J	7.2 ^J	3,780	612 ^J	5,110	1,100	<2.6
Acenaphthene	3,440,000	33,000,000	38,000	340	24.7 ^J	20.7 ^J	55.2	<2.7	432	25.9 ^J	191 ^J	1,920	752	118	<2.4
Acenaphthylene	18,000	360,000	700	<11.8	8.1 ^J	3.9 ^J	16.1	<3.1	<57.5	5.3 ^J	218	614 ^J	372 ^J	47.3 ^J	<2.8
Anthracene	17,200,000	100,000,000	197,727.3	474	99.4	102	164	<4.5	881	87.7	425	1,160	541	69.6 ^J	<4
Benzo(a)anthracene	148	2,110	17,000	433 ^{AB}	211 ^A	245 ^A	383 ^A	<2.8	1,050 ^A	273 ^A	343 ^A	218 ^{AJ}	171 ^{AJ}	15.3 ^J	<2.5
Benzo(a)pyrene	15	211	470	384 ^{AB}	273 ^{AB}	228 ^{AB}	410 ^{AB}	<3.2	876 ^{ABC}	307 ^{AB}	544 ^{ABC}	157 ^A	91.6 ^{AJ}	<13.6	<2.8
Benzo(b)fluoranthene	148	2,110	479.3	374 ^A	297 ^A	224 ^A	456 ^A	<3.3	885 ^{AC}	317 ^A	201 ^{AJ}	<130	<75.1	<14.4	<3
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	161	120	132	236	<2.6	293 ^J	190	1,490	116 ^J	<57.3	<11	<2.3
Benzo(k)fluoranthene	1,480	21,100	870,000	348	230	227	343	<3.6	909	281	141 ^J	<140	<80.6	<15.4	<3.2
Chrysene	14,800	211,000	144.6	464 ^C	284 ^C	278 ^C	448 ^C	<3.5	1,120 ^C	301 ^C	1,450 ^C	478 ^{JC}	334 ^{JC}	40.1 ^J	<3.1
Dibenz(a,h)anthracene	15	211	38,000	67.8 ^{AJ}	44.9 ^A	54.2 ^A	88.5 ^A	<5.3	130 ^{AJ}	73.8 ^A	163 ^{AJ}	<205	<118	<22.6	<4.7
Fluoranthene	2,290,000	22,000,000	88,877.8	1,160	535	514	960	<9.7	2,880	447	246	<376	<217	<41.6	<8.7
Fluorene	2,290,000	22,000,000	14,802.7	319	18	27.7	30.3	<4.8	460	24.6	323	2,640	856	126	<4.3
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	162 ^A	93.7	125	221 ^A	<2.8	308 ^{AJ}	171 ^A	422 ^A	<107	<61.7	<11.8	<2.5
Naphthalene	5,150	26,000	658.2	802 ^C	11.1 ^J	11 ^J	11	<3.4	477	11.4 ^J	1,130 ^C	1,730 ^C	1,660 ^C	245	<3
Phenanthrene	18,000	390,000	1,800	1,400	353	326	510	<4.3	2,980 ^C	279	880	6,850 ^C	1,920 ^C	314	<3.8
Pyrene	1,720,000	16,500,000	54,132.2	886	452	457	787	<3.5	2,280	500	2,890	1,450	771	102	<3.2
Diesel Range Organics (mg/kg)	--	--	--	NT	314	25.6	284	15.5	245	12.1	NT	NT	3410	2,440	NT

Table 16c
CS10 Polycyclic Aromatic Hydrocarbons in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			GP-1022	GP-1023	GP-1023	GP-1024	GP-1024	GP-1025	GP-1025	GP-1026	GP-1026
	Direct Contact Pathway		Groundwater Pathway	(5-6)	(2-3)	(7-8)	(3-4)	(6-7)	(3-4)	(6.5-7.5)	(3-4)	(8-10)
	Non-Industrial	Industrial		05/02/12	05/03/12	05/03/12	05/03/12	05/03/12	05/03/12	05/03/12	05/03/12	05/03/12
PAHs (µg/kg)												
1-Methylnaphthalene	15,600	53,100	23,000	<2.6	<3	<2.9	418	<2.8	157 ^J	310	<2.7	556
2-Methylnaphthalene	229,000	2,200,000	20,000	<2.6	<3	<2.9	567	4.6 ^J	166 ^J	302	<2.7	893
Acenaphthene	3,440,000	33,000,000	38,000	<2.4	6 ^J	<2.7	1,300	51.7	1,190	494	<2.5	832
Acenaphthylene	18,000	360,000	700	<2.8	<3.1	<3	135 ^J	<2.9	451	218	<2.8	52.4 ^J
Anthracene	17,200,000	100,000,000	197,727.3	<4	26.3	<4.5	5,020	10.7 ^J	5,380	537	<4.1	924
Benzo(a)anthracene	148	2,110	17,000	<2.5	91.5	<2.7	5,830 ^{AB}	17.9 ^J	6,730 ^{AB}	1,550 ^A	10.9 ^J	712 ^A
Benzo(a)pyrene	15	211	470	<2.8	98.2 ^A	<3.1	5,020 ^{ABC}	19.4 ^A	5,790 ^{ABC}	856 ^{ABC}	10.1 ^{AJ}	539 ^{ABC}
Benzo(b)fluoranthene	148	2,110	479.3	<3	103	<3.3	5,170 ^{ABC}	17.4 ^J	6,770 ^{ABC}	1,090 ^{AC}	8.9 ^J	625 ^{AC}
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	<2.3	70	2.9 ^J	1,490	12.5 ^J	1,830 ^A	940	6.9 ^J	321
Benzo(k)fluoranthene	1,480	21,100	870,000	<3.2	84	<3.6	5,130 ^A	17.4 ^J	5,390 ^A	770	9.3 ^J	596
Chrysene	14,800	211,000	144.6	<3.1	104	6.5 ^J	5,920 ^C	21.5	8,000 ^C	1,840 ^C	11.1 ^J	927 ^C
Dibenz(a,h)anthracene	15	211	38,000	<4.7	26.2 ^A	<5.2	724 ^{AB}	<5	838 ^{AB}	256 ^{AB}	<4.8	108 ^{AJ}
Fluoranthene	2,290,000	22,000,000	88,877.8	<8.7	179	<9.6	13,800	39.2	16,800	1,440	21	2,440
Fluorene	2,290,000	22,000,000	14,802.7	<4.3	<4.8	<4.8	1,580	13.5 ^J	2,090	736	<4.4	1,270
Indeno(1,2,3-cd)pyrene	148	2,110	680,000	<2.5	61.6	<2.7	1,690 ^A	10.9 ^J	2,030 ^A	121 ^J	5.9 ^J	323 ^A
Naphthalene	5,150	26,000	658.2	<3	<3.4	<3.3	894 ^C	21.1	112 ^J	287	<3.1	1,870 ^C
Phenanthrene	18,000	390,000	1,800	<3.8	70.3	4.8 ^J	13,900 ^C	32.6	14,100 ^C	2,320 ^C	12.3 ^J	4,800 ^C
Pyrene	1,720,000	16,500,000	54,132.2	4.3 ^J	154	4.9 ^J	11,500	34	16,100	4,950	17.7	2,960
Diesel Range Organics (mg/kg)	--	--	--	NT	NT	NT	741	NT	120	9,040	4.3	1,900

Notes:

PAHs = Polycyclic Aromatic Hydrocarbons

mg/kg = Milligrams per kilogram. µg/kg = Micrograms per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

^D = Analyte was detected in the method blank.

-- = No generic RCL established.

DUP/D/FD = Field duplicate.

NA = Not Analyzed.

Generic RCLs June 2014 per WDNR PUB-RR-890.

**Table 16d
CS10 Metals in Soil
Kenosha Engine Plant**

Sample locations are presented numerically

Parameters	Generic RCLs			GP-SL-49	GP-SL-50	GP-SL-51	GP-SL-52	GP-SL-52	GP-SL-53	GP-SL-53	GP-SL-54	GP-SL-54	GP-SL-55	GP-SL-56	GP-SL-57
	Direct Contact Pathway		Groundwater Pathway	(2-3)	(1-2)	(1-2)	(1-2)	(1-2) D	(1-2)	(6-7)	(1-2)	(6-7)	(1-2)	(1-2)	(1-2)
	Non-Industrial	Industrial		05/23/11	05/20/11	05/23/11	05/23/11	05/23/11	05/23/11	05/23/11	05/23/11	05/23/11	05/23/11	05/23/11	05/23/11
Metals (mg/kg)															
Arsenic	0.613	2.39	0.584	4.5 ^{ABC}	3.2 ^{ABC}	3.2 ^{ABC}	2.8 ^{ABC}	2.9 ^{ABC}	2.5 ^{ABC}	1.5 ^{JAC}	7.6 ^{ABC}	2.1 ^{AC}	7.5 ^{ABC}	4 ^{ABC}	6.8 ^{ABC}
Barium	15,300	100,000	164.8	46.9	17.1	21.2	12.2	10.2	11.5	10.3	73.3	18.6	79.1	120	45.4
Cadmium	70	799	0.752	0.41 ^J	0.12 ^J	0.18 ^J	0.063 ^J	0.068 ^J	0.11 ^J	0.12 ^J	1.5 ^C	0.26 ^J	0.44 ^J	0.23 ^J	2.1 ^C
Chromium	100,000	100,000	360,000	11.8	6.3	6.9	5.6	5.4	5.5	7.5	11.9	7.9	28.2	27.1	16.5
Copper	3,130	40,900	91.6	22.6	13.7	28.5	7.8	6.9	10.8	11.3	1840 ^C	181 ^C	61.5	55.8	2510 ^C
Lead	400	800	27	15.8	4.3	14.9	3	3	5.1	4.8	181 ^C	18.7	48 ^C	220 ^C	118 ^C
Mercury	3.13	3.13	0.208	0.026	0.0067 ^J	0.018	0.006 ^J	0.0057 ^J	0.008 ^J	0.0058 ^J	0.039	0.012	0.097	0.059	0.028
Nickel	1,550	19,800	13.1	12.6	6.7	7	5.4	5.1	5.5	9.2	26.8 ^C	12.1	38 ^C	30.5 ^C	18.7 ^C
Selenium	391	5,110	0.52	0.27 ^{Jb}	<0.16	<0.15	0.2 ^{Jb}	0.25 ^{Jb}	0.56 ^{JCb}	0.31 ^{Jb}	0.94 ^{JCb}	0.27 ^{Jb}	0.4 ^{Jb}	0.26 ^{Jb}	0.28 ^{Jb}
Silver	391	5,110	0.85	<0.046	<0.043	<0.042	<0.042	<0.043	<0.046	<0.043	0.69 ^J	<0.045	0.17 ^J	0.14 ^J	0.75 ^{Jb}
Zinc	23,500	100,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Table 16d
CS10 Metals in Soil
Kenosha Engine Plant**

Sample locations are presented numerically

Parameters	Generic RCLs			GP-SL-58 (1-2)	GP-SL-72 (2-3)	GP-SL-73 (2-3)	GP-SL-74 (1-2)	PZ-63 (2-3)	PZ-63 (6-7)	PZ-65 (1.5-2.5)	PZ-65 (1.5-2.5) FD	PZ-78 (1.5-2.5)	PZ-1000 (2-4)	PZ-1001 (1.5-2.5)	MW-1002 (2-3)
	Direct Contact Pathway		Groundwater Pathway	05/23/11	05/24/11	05/24/11	05/24/11	05/02/12	05/01/12	05/01/12	05/01/12	05/01/12	05/02/12	04/30/12	04/30/12
	Non-Industrial	Industrial													
Metals (mg/kg)															
Arsenic	0.613	2.39	0.584	7.1 ABC	3.4 ABC	2.3 A	2.9 ABC	5.1 ABC	5.2 ABC	11.3 ABC	6.8 ABC	4.3 ABC	14.4 ABC	2.2 AC	11.8 ABC
Barium	15,300	100,000	164.8	32.6	41.2	28.8	12	16.4	54.5	166 C	79.3	35.3	85.3	61.8	61.3
Cadmium	70	799	0.752	0.45 Jb	0.21 J	0.12 J	0.068 J	<0.031	0.72	1.3 C	0.49 J	0.41 J	0.45 Jb	0.42 J	1.6 C
Chromium	100,000	100,000	360,000	15.4	12.8	11.9	6	8.5	14.3	29.3	17.5	11.9	154	17	16.7
Copper	3,130	40,900	91.6	17.1	25.5	12.4	8.3	15.4	162 C	217 C	86.1	29.1	621 C	24.5	20.7
Lead	400	800	27	30.2 C	25.3	5.3	3.4	7.9	55.2 C	127 C	64 C	31.2 C	109 C	11.1	47 C
Mercury	3.13	3.13	0.208	0.059	0.025	0.012	0.0058 J	0.012	0.024	0.12	0.051	0.052	0.019	0.024	0.49 C
Nickel	1,550	19,800	13.1	51 C	11	10.4	6.6	11.6	29.8 C	43.4 C	23.7 C	12.7	249 C	13.6 C	18.7 C
Selenium	391	5,110	0.52	0.36 Jb	0.22 Jb	0.42 Jb	<0.17	<0.48	<0.55	<0.53	<0.54	<0.51	<2.7	<0.51	1.6 Jc
Silver	391	5,110	0.85	0.096 Jb	<0.047	<0.048	<0.047	<0.22	<0.25	0.36 J	0.32 J	<0.23	<1.2	0.27 J	0.35 J
Zinc	23,500	100,000	--	NA	NA	NA	NA	42.4	289	315	148	73.8	414	56.6	123

Table 16d
CS10 Metals in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters	Generic RCLs			MW-1003 (1.5-2.5)	PZ-1004 (1.5-2.5)	MW-1005 (2-3)	GP-1011 (2-3)	GP-1012 (2-4)	GP-1013 (3-4)	GP-1014 (3-4)	GP-1014 (8-10)	GP-1015 (2-3)	GP-1016 (3-4)	GP-1017 (6-8)	
	Direct Contact Pathway		Groundwater Pathway	04/30/12	05/01/12	05/02/12	05/02/12	05/02/12	05/02/12	05/02/12	05/02/12	05/02/12	05/02/12	05/03/12	05/03/12
	Non-Industrial	Industrial													
Metals (mg/kg)															
Arsenic	0.613	2.39	0.584	3.7 ^{ABC}	3.5 ^{ABC}	8.7 ^{ABC}	2.7 ^{ABC}	5.7 ^{ABC}	4.9 ^{ABC}	2.6 ^{ABC}	4.4 ^{ABC}	4.4 ^{ABC}	4.7 ^{ABC}	4.6 ^{ABC}	
Barium	15,300	100,000	164.8	13.8	40.8	78	11.3	16.8	31.5	9.9	12.8	67.5	57.7	44.3	
Cadmium	70	799	0.752	0.17 ^J	0.21 ^J	0.44 ^{Jb}	<0.03	<0.031	<0.032	0.033 ^{Jb}	<0.03	0.21 ^{Jb}	0.17 ^{Jb}	<0.037	
Chromium	100,000	100,000	360,000	8.9	14	34.5	5.1	9.4	9.1	4.9	7.7	17	19.2	13.2	
Copper	3,130	40,900	91.6	12.6	29.2	89.9	6.1	20.9	52.5	6.2	9.1	31.8	36.3	12.3	
Lead	400	800	27	7.9	11.6	76.2 ^C	1.9	13.5	14.2	3.5	5	45.4 ^C	38.6 ^C	7.8	
Mercury	3.13	3.13	0.208	0.0084	0.016	0.096	0.0081	0.0095	0.045	0.0052 ^J	0.008	0.22	0.043	0.012	
Nickel	1,550	19,800	13.1	10.5	16.2 ^C	48.6 ^C	5.1	12.3	10.8	5.7	115 ^C	13.4 ^C	28.3 ^C	10.4	
Selenium	391	5,110	0.52	<0.51	<1.1	<0.51	<0.46	<0.49	<0.49	<0.49	<0.47	<0.53	<0.53	<0.57	
Silver	391	5,110	0.85	<0.23	<0.51	0.42 ^J	<0.21	<0.22	<0.22	<0.22	0.34 ^J	<0.24	<0.24	<0.26	
Zinc	23,500	100,000	--	28.7	66.8	225	12.7	38.7	45.4	14	43.8	66.5	74.5	32.2	

**Table 16d
CS10 Metals in Soil
Kenosha Engine Plant**

Sample locations are presented numerically

Parameters	Generic RCLs			GP-1018 (3-4)	GP-1019 (3-4)	GP-1020 (2-3)	GP-1021 (2-3)	GP-1022 (2-3)	GP-1023 (2-3)	GP-1024 (3-4)	GP-1024 (6-7)	GP-1025 (3-4)	GP-1026 (3-4)
	Direct Contact Pathway		Groundwater Pathway	05/03/12	05/03/12	05/02/12	05/02/12	05/02/12	05/02/12	05/03/12	05/03/12	05/03/12	05/03/12
	Non-Industrial	Industrial											
Metals (mg/kg)													
Arsenic	0.613	2.39	0.584	3.8 ^{ABC}	4 ^{ABC}	2.8 ^{ABC}	3.2 ^{ABC}	2.5 ^{ABC}	2.3 ^{AC}	4.8 ^{ABC}	2.8 ^{ABC}	3.5 ^{ABC}	3.1 ^{ABC}
Barium	15,300	100,000	164.8	88.6	45.3	509 ^C	93.8	33.2	47	41.6	11.7	17.4	14.2
Cadmium	70	799	0.752	<0.032	0.17 ^{Jb}	<0.037	0.099 ^{Jb}	<0.031	<0.034	0.2 ^{Jb}	0.05 ^{Jb}	0.075 ^{Jb}	<0.033
Chromium	100,000	100,000	360,000	22.8	11.2	22.9	21.9	11.8	16.3	11	7.5	5.4	6.4
Copper	3,130	40,900	91.6	19.8	37.3	29.6	25.6	7.2	7.9	42.6	10.1	10.8	8.2
Lead	400	800	27	18.4	36.1 ^C	14.2	28.2 ^C	3.4	4.9	27.3 ^C	5.2	8.9	4
Mercury	3.13	3.13	0.208	0.046	0.066	0.019	0.026	0.0058	0.016	0.11	0.0079	0.029	0.0069
Nickel	1,550	19,800	13.1	24.4 ^C	10.7	21.8 ^C	19.8 ^C	9.4	12	11.1	9.7	5.7	6.2
Selenium	391	5,110	0.52	<0.49	<0.47	<0.57	<0.6	<0.47	<0.53	<0.44	<0.47	<0.49	<0.5
Silver	391	5,110	0.85	<0.22	<0.21	<0.26	<0.27	<0.22	<0.24	<0.2	<0.22	<0.22	<0.23
Zinc	23,500	100,000	--	43.9	57.8	62.1	59.5	23.4	28.2	86.3	197	22	16.5

Notes:

mg/kg = Milligrams per kilogram. ug/kg = Micrograms per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

^b = Analyte was detected in the method blank

-- = No generic RCL established.

DUP/D/FD = Field duplicate.

Generic RCLs June 2014 per WDNR PUB-RR-890.

Table 16e
CS10 Polychlorinated Biphenyls in Soil
Kenosha Engine Plant

Sample locations are presented numerically

Parameters				GP-SL-53	GP-SL-54	GP-SL-75	MW-1002	MW-1002	MW-1003	MW-1003	MW-1003	MW-1005
	Direct Contact Pathway		Groundwater	(6-7)	(6-7)	(2-3)	(2-3)	(7-8)	(1.5-2.5)	(6-7)	(6-7) FD	(2-3)
	Non-Industrial	Industrial	Pathway	05/23/11	05/23/11	05/26/11	04/30/12	04/30/12	04/30/12	04/30/12	04/30/12	05/02/12
PCBs (µg/kg)												
Aroclor 1016	3930	21200	9.4	<50.8	<130	<28	<31.1	<24.8	<26.9	<24.5	<24.5	<83.3
Aroclor 1221	159	589	9.4	<50.8	<130	<28	<31.1	<24.8	<26.9	<24.5	<24.5	<83.3
Aroclor 1232	159	589	9.4	<50.8	<130	<28	<31.1	<24.8	<26.9	<24.5	<24.5	<83.3
Aroclor 1242	221	744	9.4	<50.8	<130	<28	<31.1	<24.8	<26.9	<24.5	<24.5	<83.3
Aroclor 1248	221	744	9.4	427 ^{AC}	2,250 ^{ABC}	<28	<31.1	<24.8	<26.9	<24.5	<24.5	<83.3
Aroclor 1254	221	744	9.4	443 ^{AC}	<130	<28	<31.1	<24.8	<26.9	<24.5	<24.5	1,840 ^{ABC}
Aroclor 1260	221	744	9.4	<50.8	134 ^{JC}	<28	<31.1	<24.8	<26.9	<24.5	<24.5	<83.3
PCB, Total	--	--	--	871	2,390	<28	<31.1	<24.8	<26.9	<24.5	<24.5	1,840

Parameters				MW-1005	GP-1011	GP-1011	GP-1017	GP-1017	GP-1018	GP-1018	GP-1024	GP-1024
	Direct Contact Pathway		Groundwater	(5-6)	(2-3)	(7-8)	(2-3')	(6-8)	(3-4)	(7-8)	(3-4)	(6-7)
	Non-Industrial	Industrial	Pathway	05/02/12	05/02/12	05/02/12	05/03/12	05/03/12	05/03/12	05/03/12	05/03/12	05/03/12
PCBs (µg/kg)												
Aroclor 1016	3930	21200	9.4	<98.6	<25.4	<27.8	<24.6	<27.7	<26.8	<27.5	<25.9	<26
Aroclor 1221	159	589	9.4	<98.6	<25.4	<27.8	<24.6	<27.7	<26.8	<27.5	<25.9	<26
Aroclor 1232	159	589	9.4	<98.6	<25.4	<27.8	<24.6	<27.7	<26.8	<27.5	<25.9	<26
Aroclor 1242	221	744	9.4	<98.6	<25.4	<27.8	<24.6	<27.7	<26.8	<27.5	<25.9	<26
Aroclor 1248	221	744	9.4	2,590 ^{ABC}	<25.4	<27.8	<24.6	<27.7	50.6 ^{JC}	<27.5	57 ^{JC}	<26
Aroclor 1254	221	744	9.4	<98.6	<25.4	<27.8	33.7 ^{JC}	<27.7	123 ^C	<27.5	150 ^C	<26
Aroclor 1260	221	744	9.4	120 ^{JC}	<25.4	<27.8	<24.6	<27.7	<26.8	<27.5	<25.9	<26
PCB, Total	--	--	--	2,710	<25.4	<27.8	33.7	<27.7	174	<27.5	207	<26

Notes:

PCBs = Polychlorinated Biphenyls

mg/kg = Milligrams per kilogram. ug/kg = Micrograms per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated concentration between the Method Detection Limit (MDL) and Reporting Limit (RL)

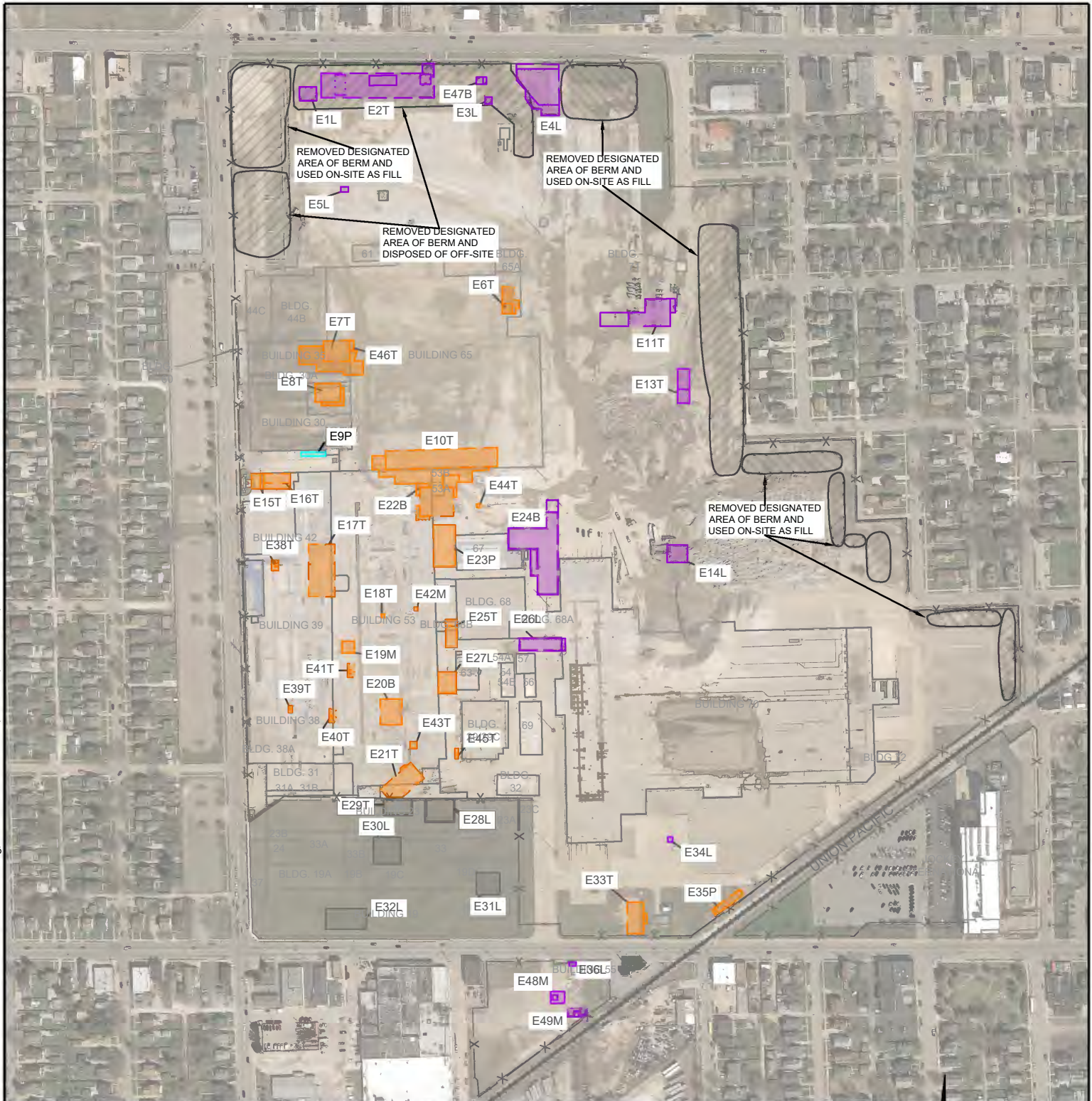
-- = No generic RCL established.

DUP/D/FD = Field duplicate.

Generic RCLs June 2014 per WDNR PUB-RR-890.

Appendix B Soil Excavation Location Figures and Post-Excavation Results Tables

C:\Users\l.zachary\Documents\Projects\KWP - Stewie Remediation\CAD\KWP - Results - ZA.dwg; 5/30/2018 12:13:49 PM; ALBERT, ZACHARY; ---

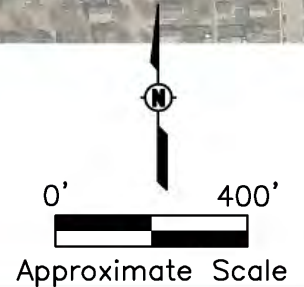


LEGEND

- APPROXIMATE SITE BOUNDARY
- RAILROAD
- EXISTING FENCE
- HISTORIC BUILDING OUTLINE
- GROUP A EXCAVATIONS
- GROUP B EXCAVATIONS
- GROUP K EXCAVATIONS
- PRIOR EXCAVATIONS

NOTES

1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH PRO, IMAGE DATED 4/6/2017; DOWNLOADED ON 6/5/2017.
2. BORDER DISCONTINUITIES ARE DUE TO ANGLE OF 2017 AERIAL.
3. UNFILLED AREAS NOT EXCAVATED
4. IRREGULAR SHAPES SHOW WHERE EXCAVATIONS WERE EXTENDED



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**GROUP A AND GROUP B EXCAVATION LOCATIONS
 KENOSHA ENGINE PLANT
 CITY OF KENOSHA
 KENOSHA, WISCONSIN**

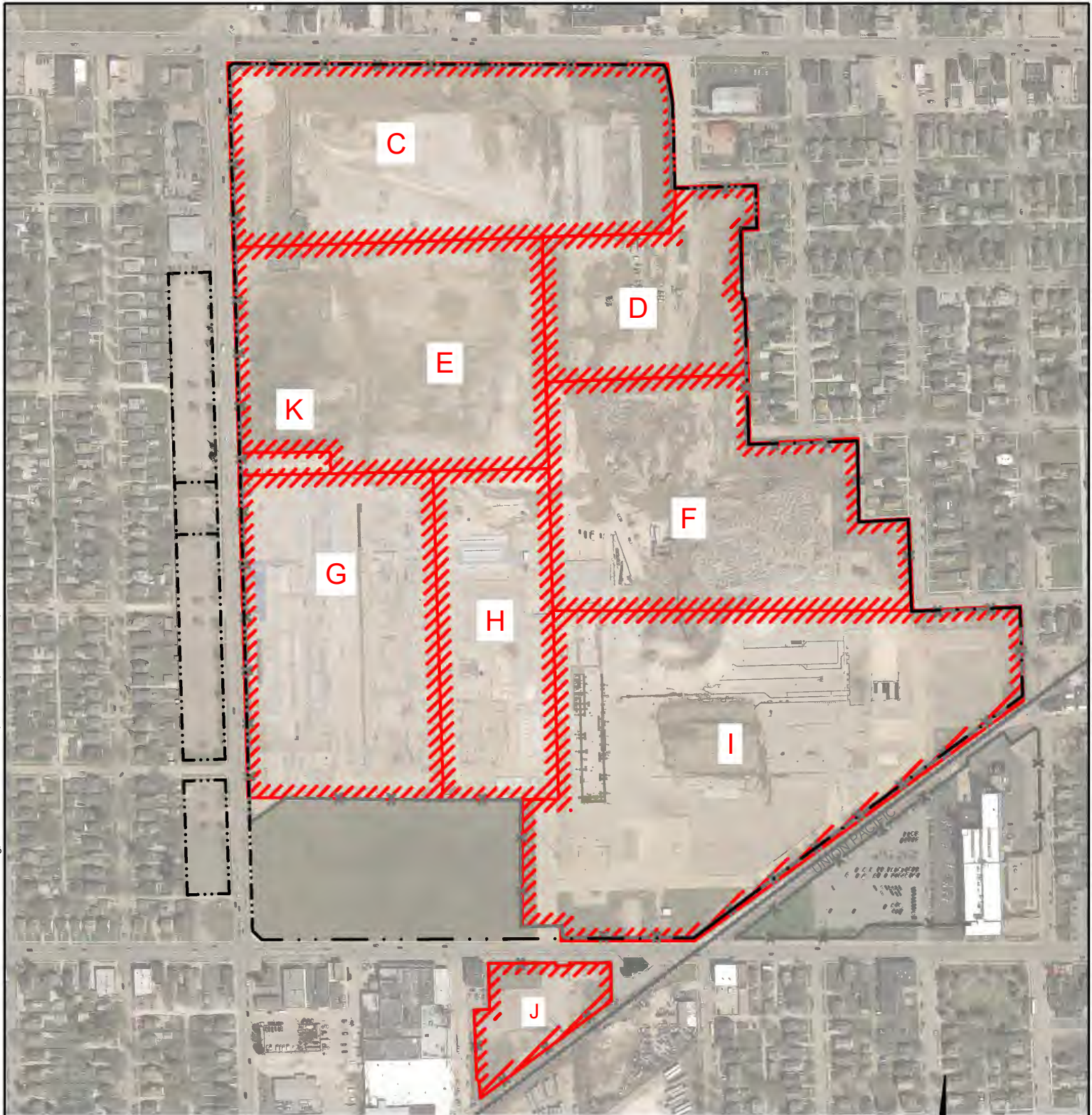
Drawn : ZPA 3/14/2018

Checked: PL 1/31/2017

Approved: LLA 1/31/2017

PROJECT NUMBER 60523016

FIGURE NUMBER 3

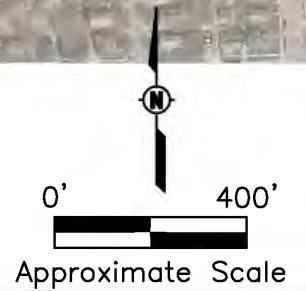


LEGEND

- APPROXIMATE SITE BOUNDARY
- RAILROAD
- EXISTING FENCE
- ▨ INVESTIGATION AREA

NOTES

1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH PRO, IMAGE DATED 4/6/2017; DOWNLOADED ON 6/5/2017.
2. BORDER DISCONTINUITIES ARE DUE TO ANGLE OF 2017 AERIAL.



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**SITE-WIDE REMEDIATION GROUPS
 KENOSHA ENGINE PLANT
 CITY OF KENOSHA
 KENOSHA, WISCONSIN**

Drawn : ZPA 3/14/2018

Checked: PL 1/31/2017

Approved: LLA 1/31/2017

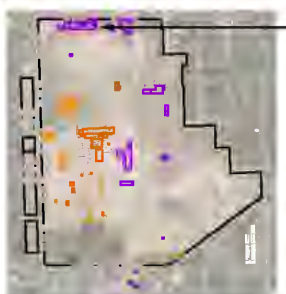
PROJECT NUMBER 60523016

FIGURE NUMBER 4

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VERIFICATION SAMPLE RESULTS FOR EXCAVATIONS E1L AND E2T PLAN VIEW
 KENOSHA ENGINE PLANT
 CITY OF KENOSHA
 KENOSHA, WISCONSIN

Drawn: ZPA 4/3/2018
 Checked: PL 1/31/2017
 Approved: LLA 1/31/2017
 PROJECT NUMBER: 60523016
 FIGURE NUMBER: 5a



E1L and E2T

Excavations E1L and E2T Plan View

LEGEND

- Property Boundary
- Fence
- - - Excavation Perimeter
- - - Excavation Extension
- SW-# Sidewall Sample Location
- B-# Bottom Sample Location
- B-# Excavated Bottom Sample Location

VOCs Volatile Organic Compounds
 PAHs Polycyclic Aromatic Hydrocarbons
 Cis-DCE Cis-1,2-Dichloroethene
 Trans-DCE Trans-1,2-Dichloroethene
 1,1,1-TCA 1,1,1-Trichloroethane
 MC Methylene chloride
 TCE Trichloroethene
 PCE Tetrachloroethene
 VC Vinyl Chloride
 RCL Residual Contaminant Level
 ND No Detects
 NE No Exceedances

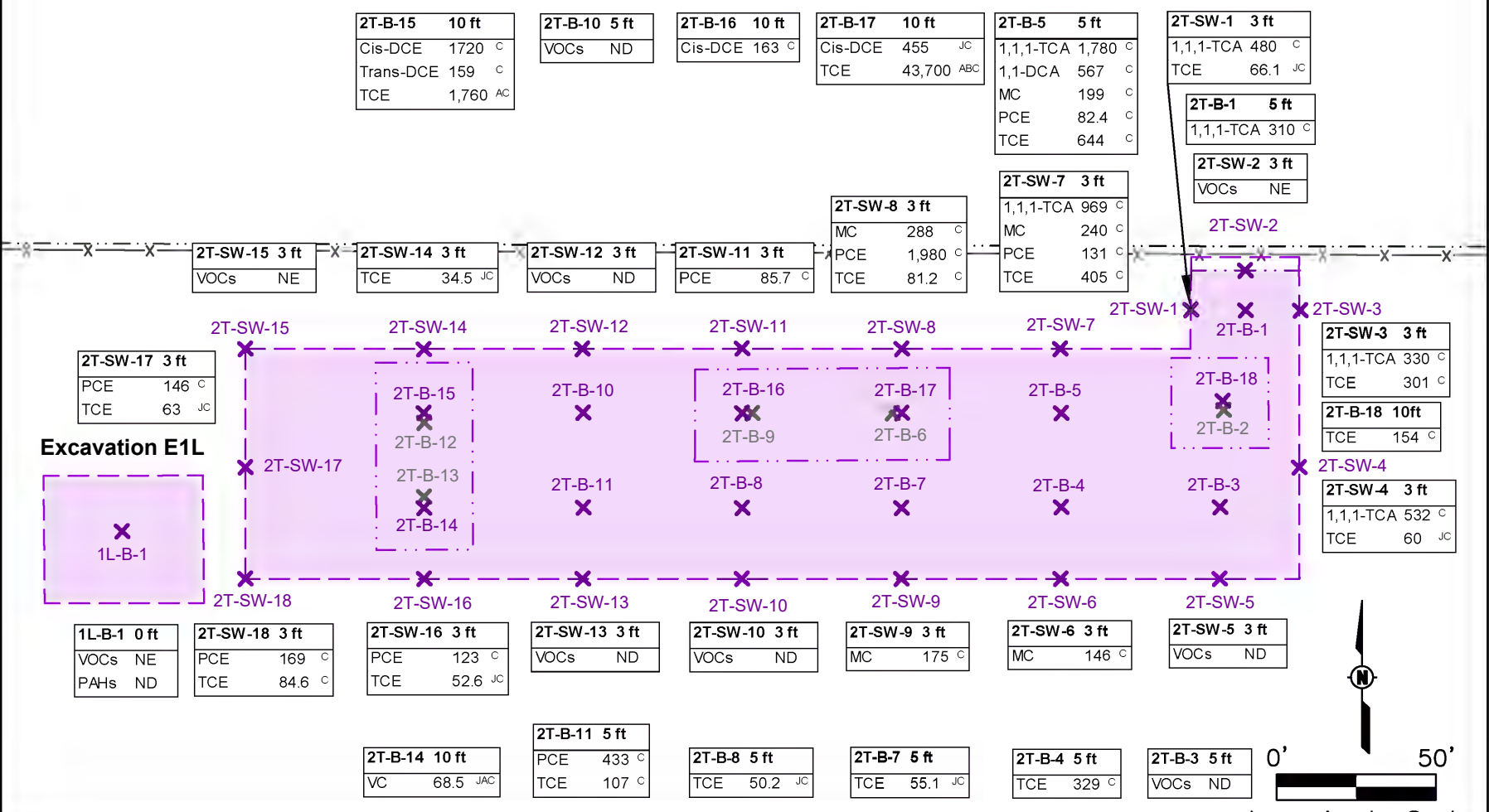
Qualifiers:

- A Exceeds NR720 Non-industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit

Notes:

1. Where Naphthalene was detected as both VOC and PAH, the PAH results are shown because they are analysis specific.

Excavation E2T



Approximate Scale

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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E2T CROSS-SECTION
 KENOSHA ENGINE PLANT
 CITY OF KENOSHA
 KENOSHA, WISCONSIN



E1L and E2T

Excavation E2T Typical Cross-Section Looking North

LEGEND

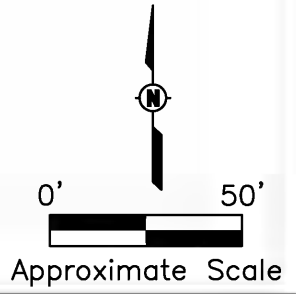
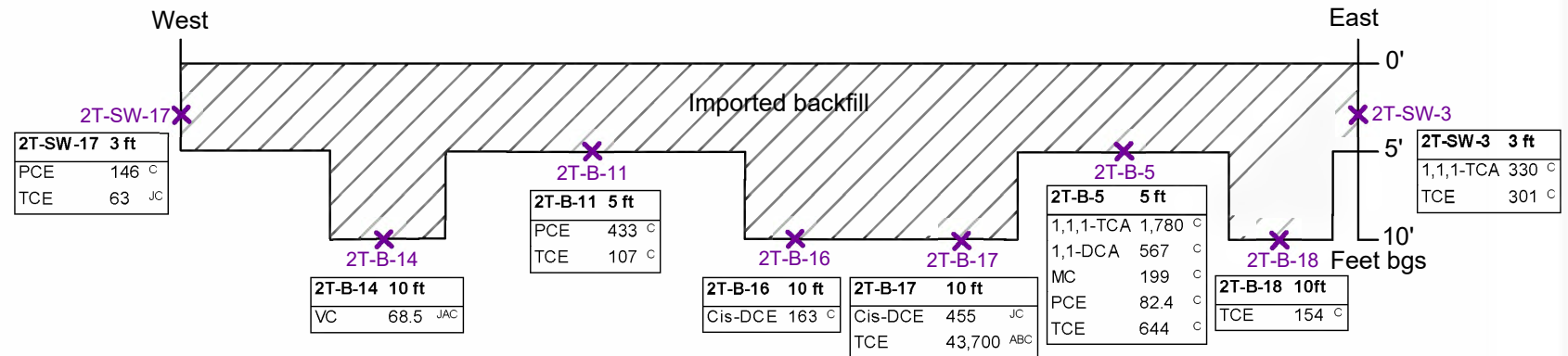
- SW-# Sidewall Sample Location
- B-# Bottom Sample Location
- Cis-DCE Cis-1,2-Dichloroethene
- 1,1,1-TCA 1,1,1-Trichloroethane
- MC Methylene chloride
- TCE Trichloroethene
- PCE Tetrachloroethene
- VC Vinyl Chloride
- RCL Residual Contaminant Level

Notes:

1. Where Naphthalene was detected as both VOC and PAH, the PAH results are shown because they are analysis specific.
2. This is only cross section representation, refer to Figure 5a for additional details.
3. Sample from Excavation E1L taken at grade, no cross section necessary.

Qualifiers:

- A Exceeds NR720 Non-industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit



Drawn: ZPA 4/3/2018
 Checked: PL 1/31/2017
 Approved: LLA 1/31/2017
 PROJECT NUMBER: 60523016
 FIGURE NUMBER: 5b

C:\Users\lachary.albert\Documents\Projects\KEP - Stewie Excavations - Results - ZA.dwg; 5/30/2018 2:00:35 PM; ALBERT, ZACHARY, -



E3L and E47B

Excavations E3L and E47B

Excavation E47B Plan View

47B-SW-1 5 ft	
TCE	223 ^C
PAHs	NE

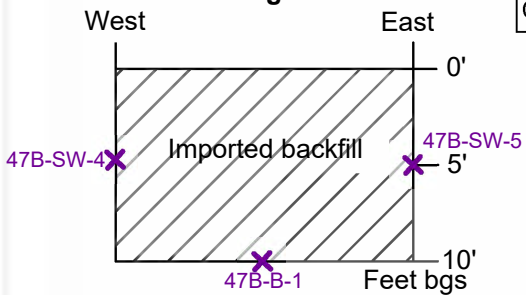
47B-B-1 10 ft	
VOCs	ND
PAHs	NE

47B-SW-4 5 ft	
VOCs	ND
PAHs	NE

47B-SW-3 5 ft	
VOCs	ND
B(a)P	119 ^A
CHR	260 ^C

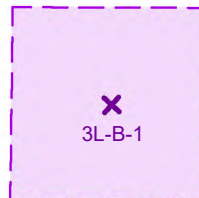
47B-SW-5 5 ft	
VOCs	ND
PAHs	NE

Excavation E47B Typical Cross-Section Looking North



3L-B-1 0 ft	
TCE	30.7 ^{JC}
PAHs	NE

Excavation E3L Plan View



LEGEND

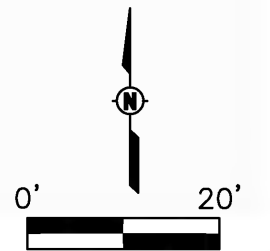
- Property Boundary
- Fence
- Excavation Perimeter
- Excavation Extension
- SW-# Sidewall Sample Location
- B-# Bottom Sample Location
- SW-# Excavated Sidewall Sample Location
- VOCs Volatile Organic Compounds
- PAHs Polycyclic Aromatic Hydrocarbons
- TCE Trichloroethene
- B(a)P Benzo(a)pyrene
- CHR Crysenes
- RCL Residual Contaminant Level
- ND No Detects
- NE No Exceedances

Qualifiers:

- A Exceeds NR720 Non-industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit

Notes:

1. Where Naphthalene was detected as both VOC and PAH, the PAH results are shown because they are analysis specific.
2. Sample from Excavation E3L taken at grade, no cross section necessary.



Approximate Scale



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VERIFICATION SAMPLE RESULTS FOR EXCAVATIONS E3L AND E47B
KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

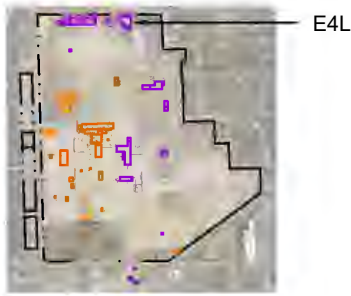
Drawn : ZPA 4/3/2018

Checked: PL 1/31/2017

Approved: LLA 1/31/2017

PROJECT NUMBER 60523016

FIGURE NUMBER 6



Excavation E4L Plan View

LEGEND

- Property Boundary
- Fence
- - - Excavation Perimeter
- - - Excavation Extension
- - - Underground Electric Utility
- ATC overhead electric pole
- - - Abandoned Gas Main
- SW-# Sidewall Sample Location
- B-# Bottom Sample Location
- SW-# Excavated Sidewall Sample Location
- VOCs Volatile Organic Compounds
- PAHs Polycyclic Aromatic Hydrocarbons
- BEN BenZene
- ETH EthylbenZene
- TOL Toluene
- XYL Total Xylenes
- NAP Naphthalene
- 1,1-DCA 1,1-Dichloroethane
- 1,2,4-TMB 1,2,4-TrimethylbenZene
- 1,3,5-TMB 1,3,5-TrimethylbenZene

- RCL Residual Contaminant Level
- ND No Detects
- NE No Exceedances

Qualifiers:

- A Exceeds NR720 Non-industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit

Notes:

1. Where Naphthalene was detected as both VOC and PAH, the PAH results are shown because they are analysis specific.

4L-B-5	12 ft
1,2,4-TMB	1,770 C
BEN	4,160 AC
ETH	7,600 C
TOL	21,200 C
XYL	20,900 C
PAHs	NE

4L-SW-10	6 ft
1,2,4-TMB	19,900 C
1,3,5-TMB	6,530 C
BEN	1,170 C
ETH	14,900 AC
XYL	30,200 C
NAP	1,130 C

4L-SW-9	6 ft
1,2,4-TMB	20,100 C
1,3,5-TMB	6,600 C
BEN	197 JC
ETH	13,400 AC
XYL	7,630 C
NAP	2,170 C

4L-SW-11	6 ft
VOCs	ND
PAHs	ND

4L-SW-1	6 ft
1,2,4-TMB	20,900 C
1,3,5-TMB	6,300 C
BEN	160 JC
ETH	16,700 AC
TOL	1,200 C
XYL	28,000 C
NAP	1,210 C

4L-B-6	12 ft
1,2,4-TMB	3,680 C
BEN	4,030 AC
ETH	5,170 C
NAP	704 C
TOL	12,000 C
XYL	15,600 C
PAHs	NE

4L-SW-4	6 ft
VOCs	ND
PAHs	ND

4L-B-7	12 ft
BEN	3,530 AC
TOL	27,700 C
PAHs	NE

4L-SW-5	6 ft
NAP	2,160 C
PAHs	NE

4L-B-4	12 ft
1,2,4-TMB	323,000 ABC
1,3,5-TMB	100,000 C
ETH	6,300 C
TOL	4,440 C
XYL	11,600 C
NAP	699 C

4L-SW-15	6 ft
1,2,4-TMB	37,900 C
1,3,5-TMB	12,300 C
BEN	421 JC
CHF	570 JAC
ETH	29,900 AC
XYL	67,000 C
NAP	2,870 C

4L-B-8	12 ft
1,2,4-TMB	244,000 ABC
1,2-DCA	3,910 JABC
1,3,5-TMB	77,800 C
BEN	141,000 ABC
ETH	220,000 ABC
TOL	444,000 C
XYL	628,000 ABC
NAP	14,500 AC

4L-SW-16	6 ft
1,2,4-TMB	21,900 C
1,3,5-TMB	6,300 C
BEN	230 C
CHF	276 JC
ETH	26,100 AC
TOL	2,280 C
XYL	67,100 C
NAP	1,370 C

4L-B-11	12 ft
1,2,4-TMB	314,000 ABC
1,3,5-TMB	100,000 C
BEN	208,000 ABC
ETH	245,000 ABC
TOL	464,000 C
XYL	678,000 ABC
NAP	16,900 AC

4L-SW-12	6 ft
NAP	1,560 C

4L-SW-13	6 ft
VOCs	NE
PAHs	NE

4L-B-9	12 ft
BEN	80.6 JC
ETH	11,200 AC
TOL	2,660 C
XYL	26,700 C
PAHs	NE

4L-B-10	12 ft
BEN	827 C
ETH	3,120 C
TOL	19,200 C
XYL	5,780 C
PAHs	NE

4L-SW-2	12 ft
1,2,4-TMB	4,270 C
BEN	2,240 AC
ETH	15,000 AC
TOL	5,620 C
XYL	37,600 C
PAHs	NE

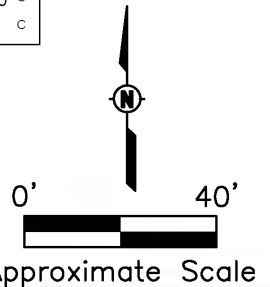
4L-B-1	12 ft
BEN	4,050 AC
ETH	9,500 AC
TOL	18,500 C
XYL	19,800 C
PAHs	ND

4L-B-2	12 ft
BEN	1,970 AC
ETH	13,900 AC
TOL	5,940 C
XYL	35,300 C
PAHs	ND

4L-SW-3	6 ft
BEN	72.3 JC
ETH	11,000 AC
XYL	20,700 C
PAHs	NE

4L-B-3	12 ft
1,2,4-TMB	1,790 C
BEN	799 C
ETH	10,000 AC
TOL	13,700 C
XYL	27,700 C
PAHs	NE

4L-SW-14	6 ft
1,2,4-TMB	30,600 C
1,3,5-TMB	11,900 C
ETH	32,100 AC
XYL	35,700 C
NAP	1,740 C



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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E4L PLANVIEW KENOSHA ENGINE PLANT CITY OF KENOSHA KENOSHA, WISCONSIN

Drawn : ZPA 4/3/2018
Checked: PL 1/31/2017
Approved: LLA 1/31/2017

PROJECT NUMBER 60523016
FIGURE NUMBER 7a

LEGEND

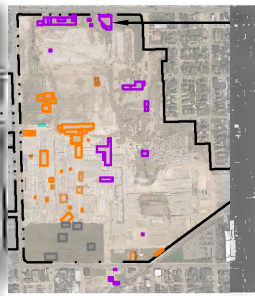
- SW-# Sidewall Sample Location
- B-# Bottom Sample Location
- VOCs Volatile Organic Compounds
- PAHs Polycyclic Aromatic Hydrocarbons
- BEN Benzene
- ETH Ethylbenzene
- TOL Toluene
- XYL Total Xylenes
- NAP Naphthalene
- 1,2,4-TMB 1,2,4-Trimethylbenzene
- 1,3,5-TMB 1,3,5-Trimethylbenzene
- RCL Residual Contaminant Level
- ND No Detects
- NE No Exceedances

Qualifiers:

- A Exceeds NR720 Non-industrial direct contact RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit

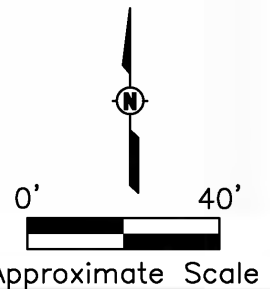
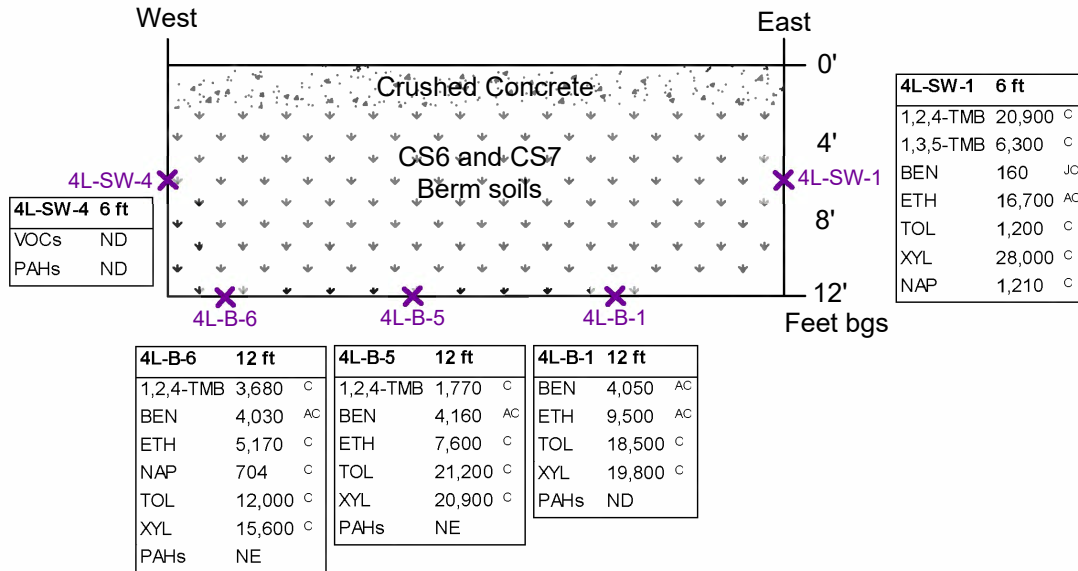
Notes:

1. Where Naphthalene was detected as both VOC and PAH, the PAH results are shown because they are analysis specific.
2. This is only cross section representation, refer to Figure 7a for additional details.



E4L

Excavation E4L Typical Cross-Section Looking North



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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E4L CROSS-SECTION
KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn :	ZPA 4/3/2018
Checked:	PL 1/31/2017
Approved:	LLA 1/31/2017
PROJECT NUMBER	60523016
FIGURE NUMBER	7b



E5L

Excavation E5L

LEGEND

- Excavation Perimeter
- - - Excavation Extension
- * SW-# Sidewall Sample Location
- * B-# Bottom Sample Location
- VOCs Volatile Organic Compounds
- PAHs Polycyclic Aromatic Hydrocarbons
- B(a)P Benzo(a)Pyrene
- CHR Crystene
- RCL Residual Contaminant Level
- ND No Detects
- NE No Exceedances

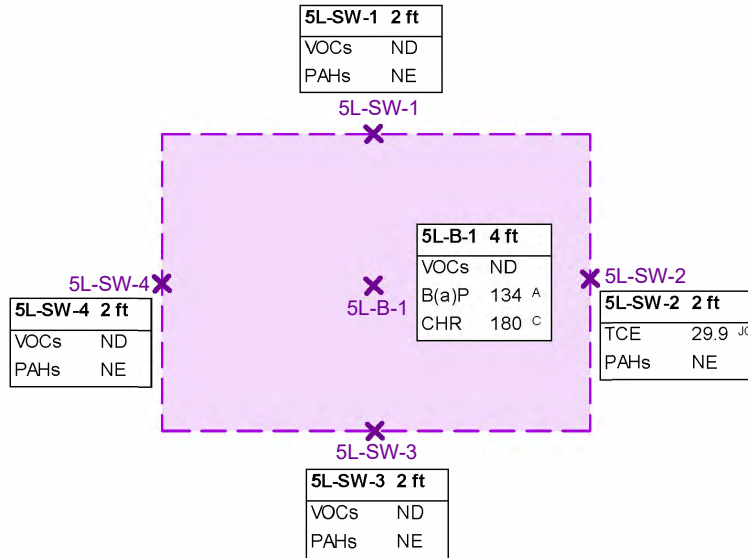
Qualifiers:

- A Exceeds NR720 Non-industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit

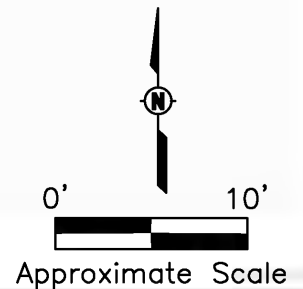
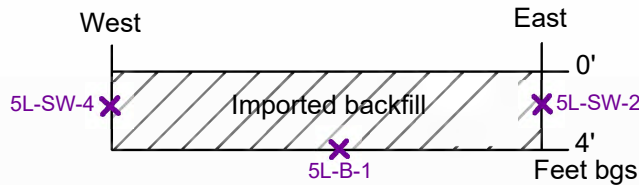
Notes:

1. Where Naphthalene was detected as both VOC and PAH, the PAH results are shown because they are analysis specific.

Plan View



Typical Cross-Section Looking North



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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E5L
KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn : ZPA 4/3/2018

Checked: PL 1/31/2017

Approved: LLA 1/31/2017

PROJECT NUMBER 60523016

FIGURE NUMBER 8



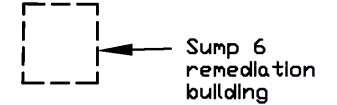
E11T

Excavation E11T

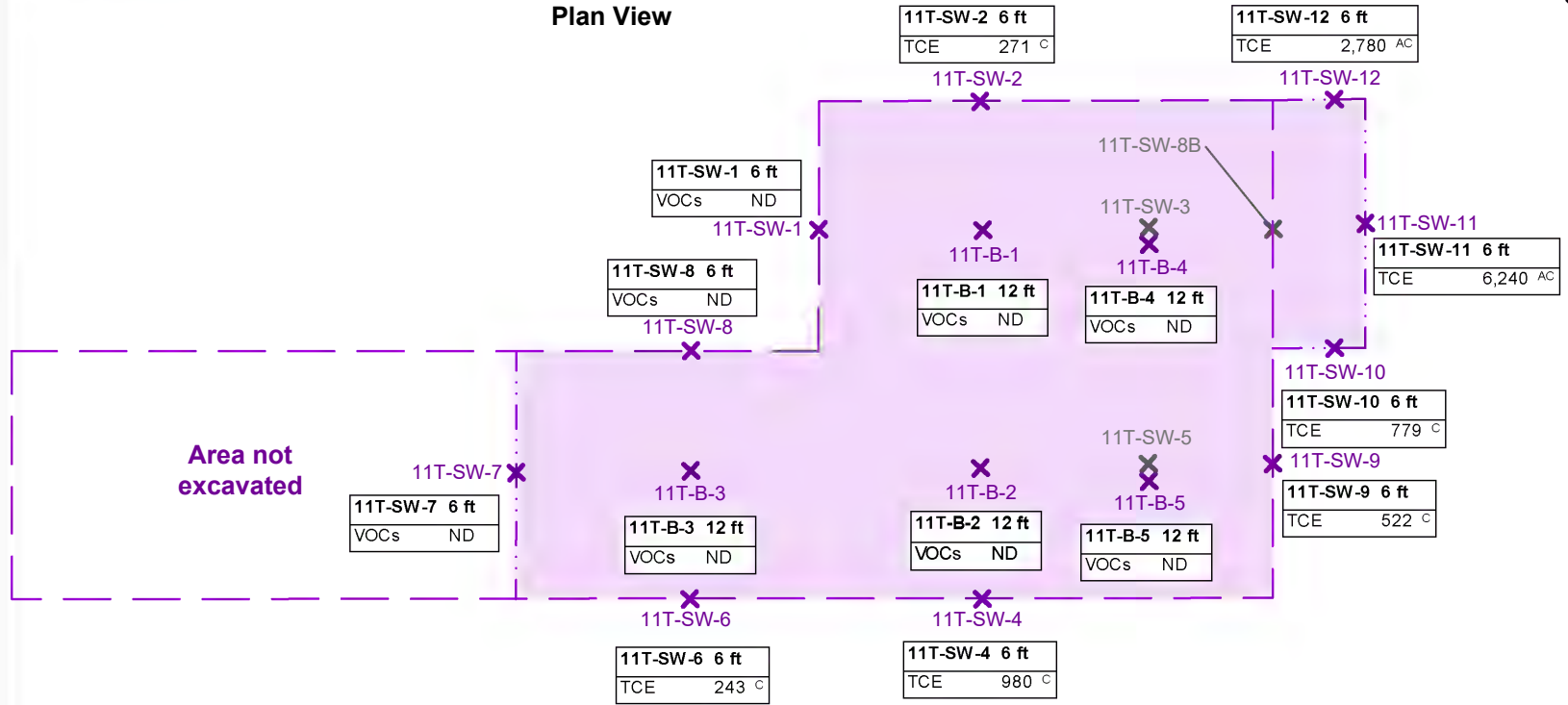
LEGEND

- [] Building
- - - Excavation Perimeter
- - - Excavation Extension
- SW-# Sidewall Sample Location
- B-# Bottom Sample Location
- SW-# Excavated Sidewall Sample Location
- VOCs Volatile Organic Compounds
- TCE Trichloroethene
- RCL Residual Contaminant Level
- ND No Detects

- Qualifiers:
- A Exceeds NR720 Non-industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
 - B Exceeds NR720 Industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
 - C Exceeds NR720 Groundwater pathway RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
 - J Concentration is estimated because it was detected below the practical quantitation limit

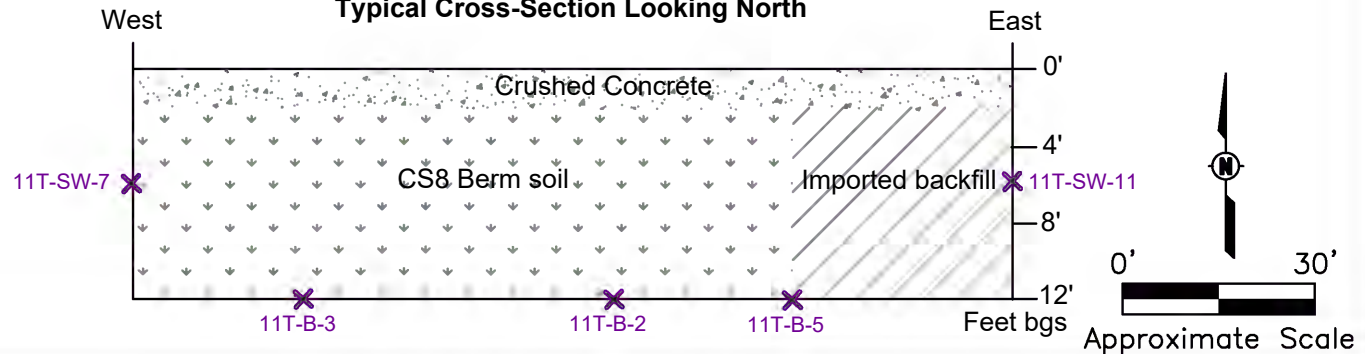


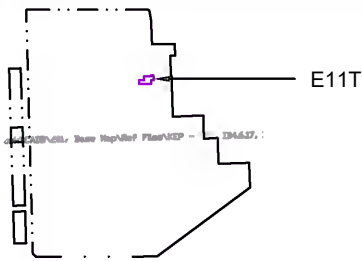
Plan View



Area not excavated

Typical Cross-Section Looking North





Excavation E11T

Original and 2019 Extension

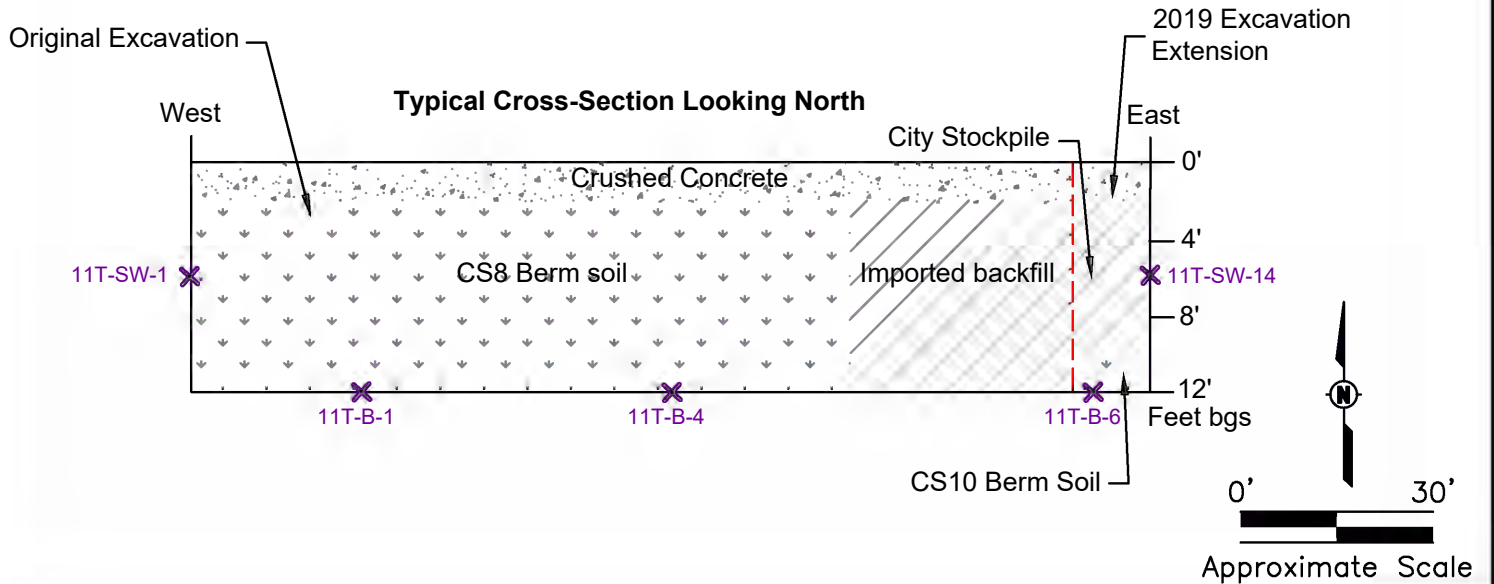
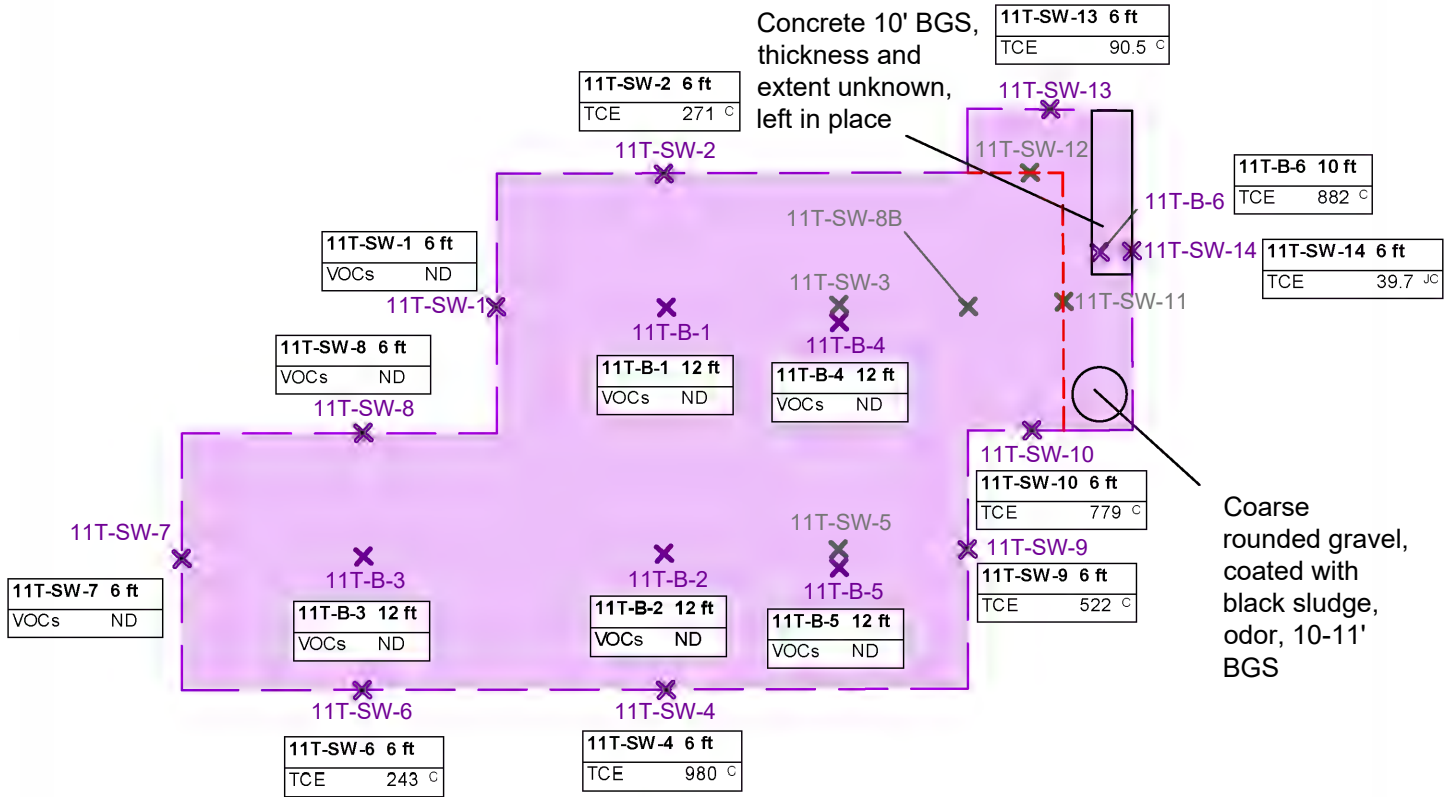
LEGEND

- Building
- Excavation Perimeter
- Excavation Extension
- SW-# Sidewall Sample Location
- B-# Bottom Sample Location
- SW-# Excavated Sidewall Sample Location
- TCE Trichloroethene
- RCL Residual Contaminant Level

Qualifiers:

- A Exceeds NR720 Non-industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit

Plan View

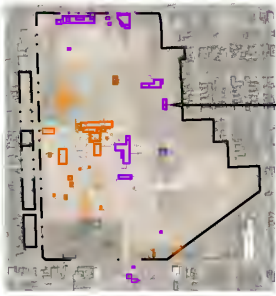


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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E11T
 KENOSHA ENGINE PLANT
 CITY OF KENOSHA
 KENOSHA, WISCONSIN

Drawn:	ZPA	3/4/19
Checked:	PL	1/31/2017
Approved:	LLA	1/31/2017
PROJECT NUMBER	60571099	
FIGURE NUMBER	9A	

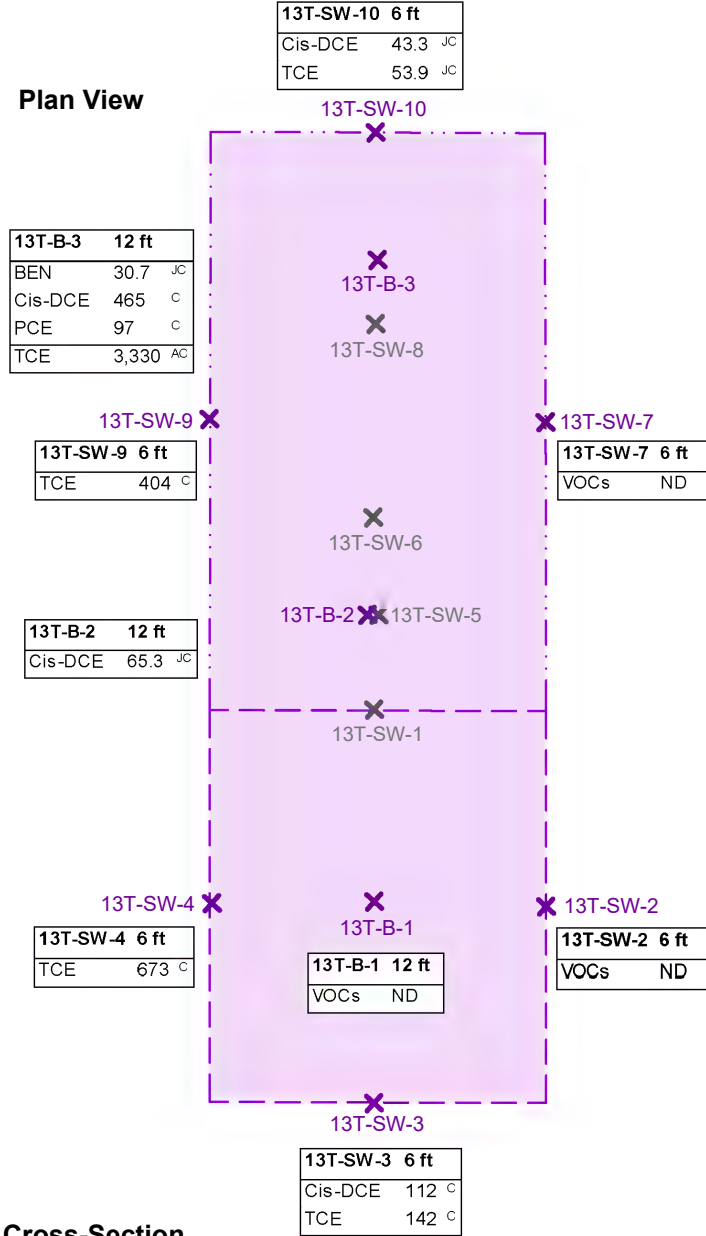
C:\Users\lachary.albert\Documents\Projects\KEP - Stewide Excavations - Results - ZA.dwg; 5/30/2018 2:01:00 PM; ALBERT, ZACHARY, ----



E13T

Excavation E13T

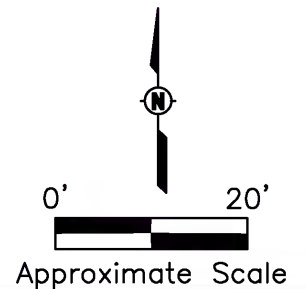
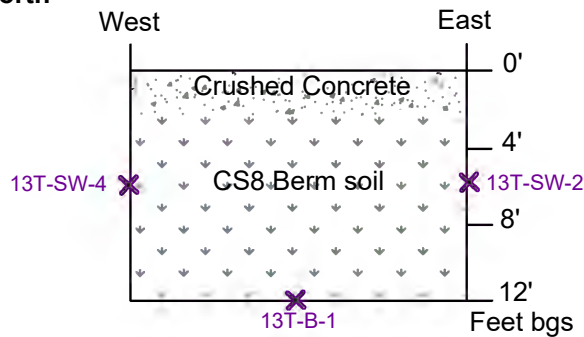
Plan View



- LEGEND**
- Excavation Perimeter
 - - - Excavation Extension
 - SW-# Sidewall Sample Location
 - B-# Bottom Sample Location
 - SW-# Excavated Sidewall Sample Location
 - VOCs Volatile Organic Compounds
 - BEN Benzene
 - Cis-DCE Cis-1,2-Dichloroethene
 - TCE Trichloroethene
 - PCE Tetrachloroethene
 - RCL Residual Contaminant Level
 - ND No Detects

- Qualifiers:**
- A Exceeds NR720 Non-industrial direct contact RCL
WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
 - B Exceeds NR720 Industrial direct contact RCL
WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
 - C Exceeds NR720 Groundwater pathway RCL
WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
 - J Concentration is estimated because it was detected below the practical quantitation limit

Typical Cross-Section Looking North



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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E13T
KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn :	ZPA	4/3/2018
Checked:	PL	1/31/2017
Approved:	LLA	1/31/2017
PROJECT NUMBER	60523016	
FIGURE NUMBER	10	



E14L

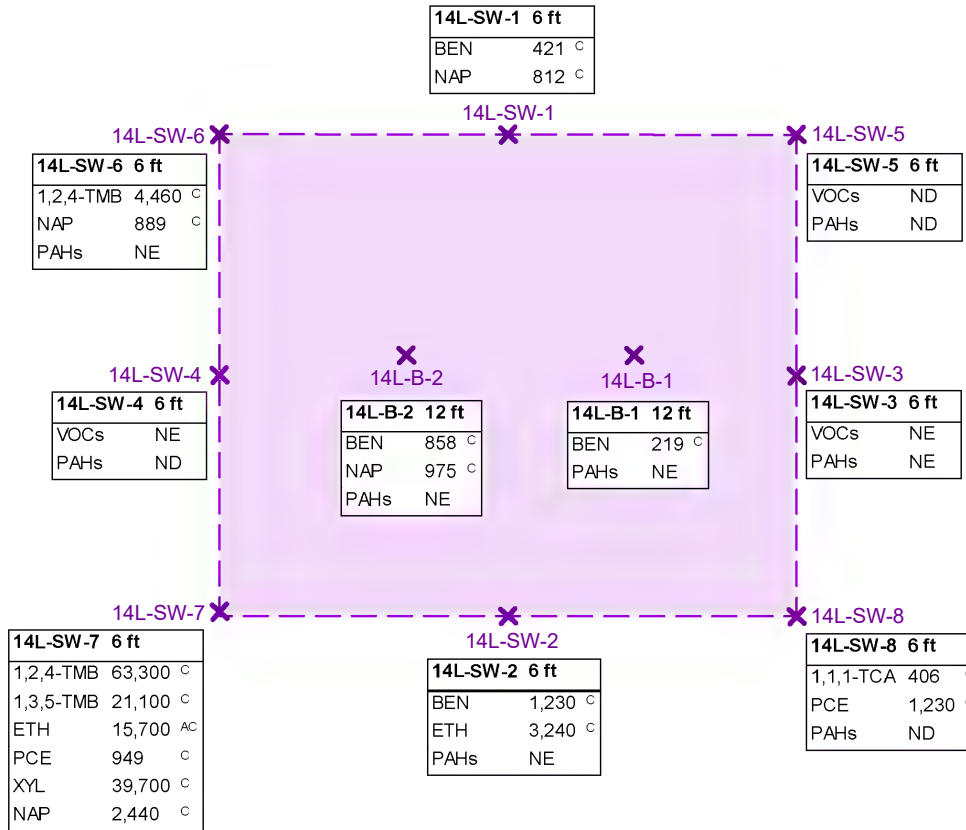
Excavation E14L

LEGEND

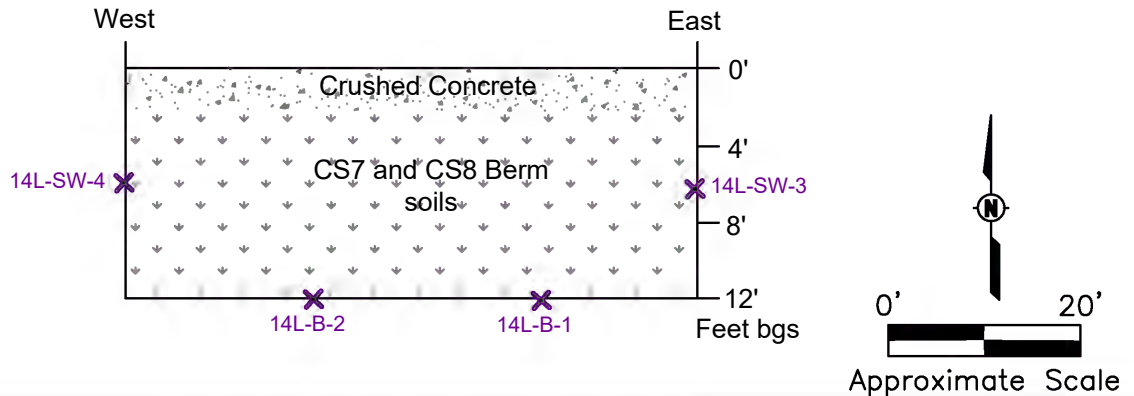
- Excavation Perimeter
- - - Excavation Extension
- SW-# Sidewall Sample Location
- B-# Bottom Sample Location
- SW-# Excavated Sidewall Sample Location
- VOCs Volatile Organic Compounds
- PAHs Polycyclic Aromatic Hydrocarbons
- BEN Benzene
- 1,2,4-TMB 1,2,4-Trimethylbenzene
- 1,3,5-TMB 1,3,5-Trimethylbenzene
- ETH Ethylbenzene
- XYL Total Xylenes
- NAP Naphthalene
- 1,1,1-TCA 1,1,1-Trichloroethane
- PCE Tetrachloroethene
- RCL Residual Contaminant Level
- ND No Detects
- NE No Exceedances

- Qualifiers:
- A Exceeds NR720 Non-industrial direct contact RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
 - B Exceeds NR720 Industrial direct contact RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
 - C Exceeds NR720 Groundwater pathway RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
 - J Concentration is estimated because it was detected below the practical quantitation limit

Plan View



Typical Cross-Section Looking North



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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E14L KENOSHA ENGINE PLANT CITY OF KENOSHA KENOSHA, WISCONSIN

Drawn :	ZPA 4/3/2018
Checked:	PL 1/31/2017
Approved:	LLA 1/31/2017
PROJECT NUMBER	60523016
FIGURE NUMBER	11

Excavation E24B Plan View

E24B

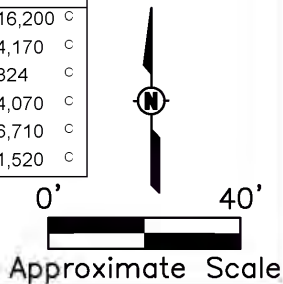
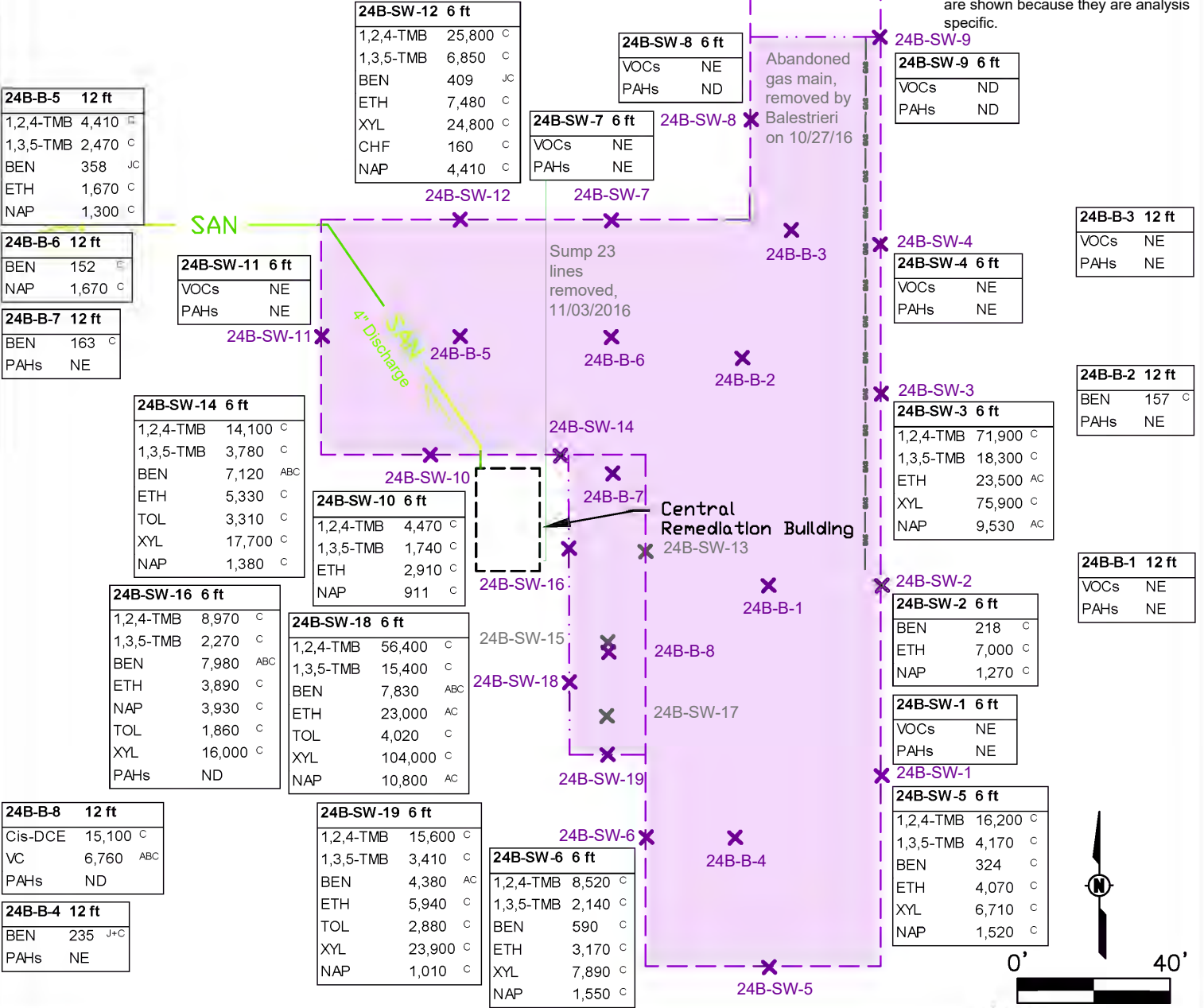
LEGEND

- [] Building
- Excavation Perimeter
- Excavation Extension
- SW-# Sidewall Sample Location
- B-# Bottom Sample Location
- SW-# Excavated Sidewall Sample Location
- SAN — Sanitary Sewer
- Sump Line
- Abandoned Sump Line
- Abandoned Gas Main
- VOCs Volatile Organic Compounds
- PAHs Polycyclic Aromatic Hydrocarbons
- BEN Benzene
- ETH Ethylbenzene
- TOL Toluene
- XYL Total Xylenes

- NAP Naphthalene
- CHF Chloroform
- 1,2,4-TMB 1,2,4-Trimethylbenzene
- 1,3,5-TMB 1,3,5-Trimethylbenzene
- RCL Residual Contaminant Level
- ND No Detects
- NE No Exceedances

Qualifiers:
 A Exceeds NR720 Non-industrial direct contact RCL
 WDNr RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
 B Exceeds NR720 Industrial direct contact RCL
 WDNr RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
 C Exceeds NR720 Groundwater pathway RCL
 WDNr RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
 J Concentration is estimated because it was detected below the practical quantitation limit

Notes:
 1. Where Naphthalene was detected as both VOC and PAH, the PAH results are shown because they are analysis specific.

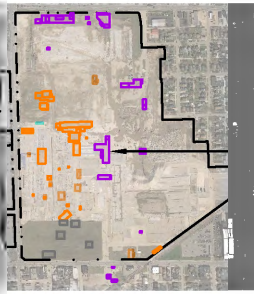


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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E24B PLAN VIEW KENOSHA ENGINE PLANT CITY OF KENOSHA KENOSHA, WISCONSIN

Drawn :	ZPA 4/3/2018
Checked:	PL 1/31/2017
Approved:	LLA 1/31/2017
PROJECT NUMBER	60523016
FIGURE NUMBER	12a

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E24B

Excavation E24B

Typical Cross-Section Looking North

LEGEND

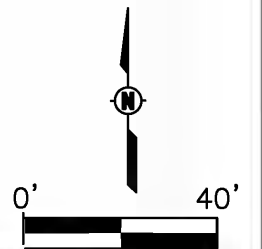
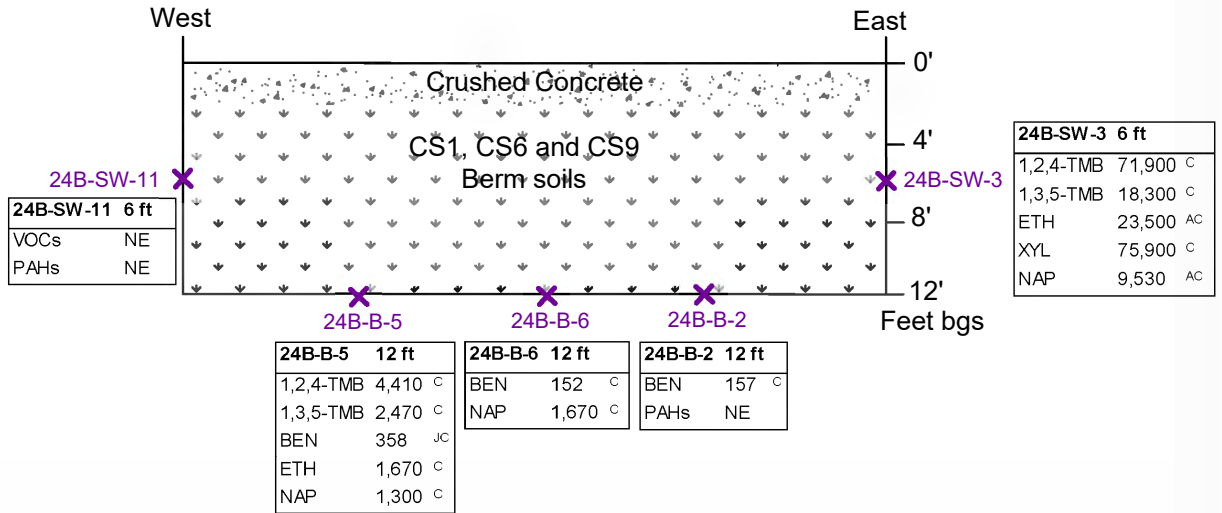
SW-#	Sidewall Sample Location
B-#	Bottom Sample Location
VOCs	Volatile Organic Compounds
PAHs	Polycyclic Aromatic Hydrocarbons
BEN	Benzene
ETH	Ethylbenzene
XYL	Total Xylenes
NAP	Naphthalene
1,2,4-TMB	1,2,4-Trimethylbenzene
1,3,5-TMB	1,3,5-Trimethylbenzene
RCL	Residual Contaminant Level
NE	No Exceedances

Qualifiers:

- A Exceeds NR720 Non-industrial direct contact RCL
WDNR RCL Calculator worksheet updated March 2017,
per WDNR PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL WDNR
RCL Calculator worksheet updated March 2017, per
WDNR PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL WDNR
RCL Calculator worksheet updated March 2017, per
WDNR PUB-RR-890
- J Concentration is estimated because it was detected
below the practical quantitation limit

Notes:

1. This is only cross section representation.
refer to Figure 12a for additional details.
2. Where Naphthalene was detected as both
VOC and PAH, the PAH results are shown
because they are analysis specific.



Approximate Scale

C:\Users\l.zachary\Documents\Projects\KCP - Stewwide Excavations - Results - ZA.dwg; 5/30/2018 2:01:15 PM; ALBERT, ZACHARY, -



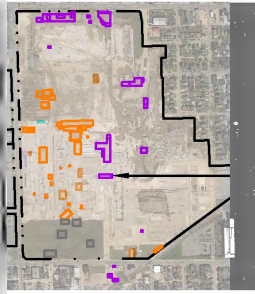
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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E24B CROSS-SECTION
KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn :	ZPA 4/3/2018
Checked:	PL 1/31/2017
Approved:	LLA 1/31/2017
PROJECT NUMBER	60523016
FIGURE NUMBER	12b

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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E26L
 KENOSHA ENGINE PLANT
 CITY OF KENOSHA
 KENOSHA, WISCONSIN



E26L

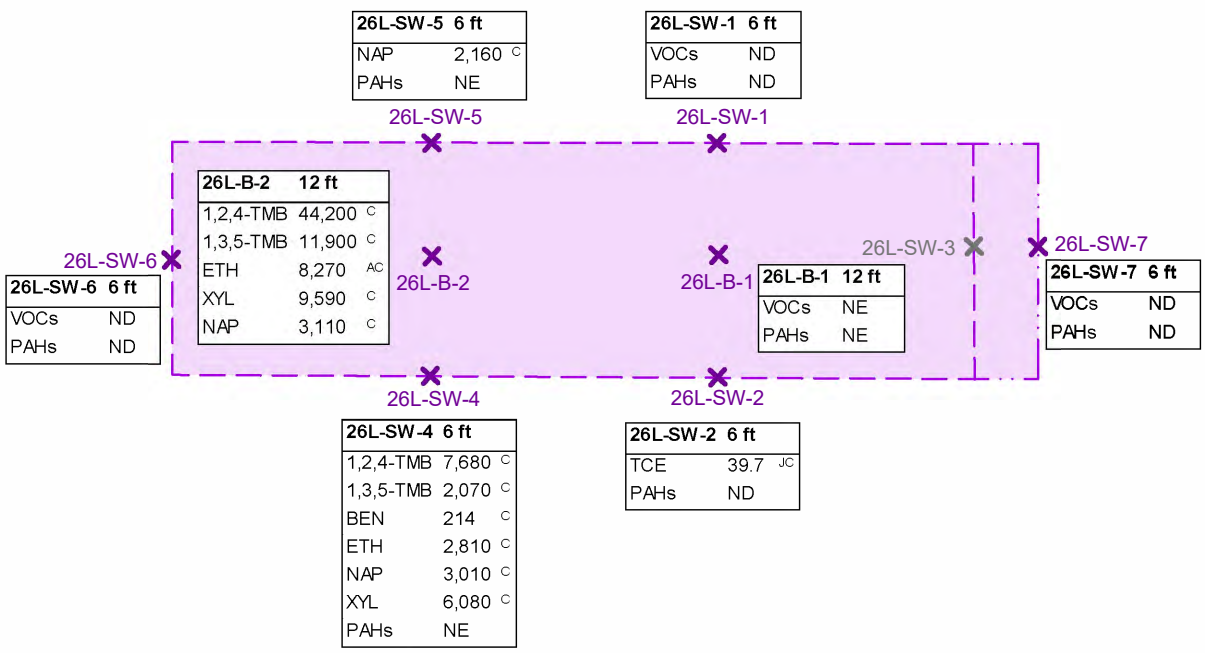
Excavation E26L

- LEGEND**
- Excavation Perimeter
 - - - Excavation Extension
 - SW-# Sidewall Sample Location
 - B-# Bottom Sample Location
 - SW-# Excavated Sidewall Sample Location
- VOCs Volatile Organic Compounds
 PAHs Polycyclic Aromatic Hydrocarbons
 BEN Ben_zene
 ETH Ethylben_zene
 XYL Total Xylenes
 NAP Naphthalene
 1,2,4-TMB 1,2,4-Trimethylben_zene
 1,3,5-TMB 1,3,5-Trimethylben_zene
 RCL Residual Contaminant Level
 ND No Detects
 NE No Exceedances

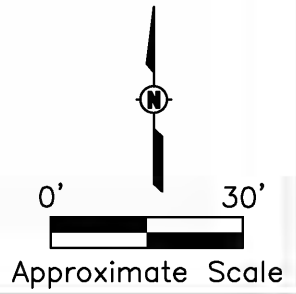
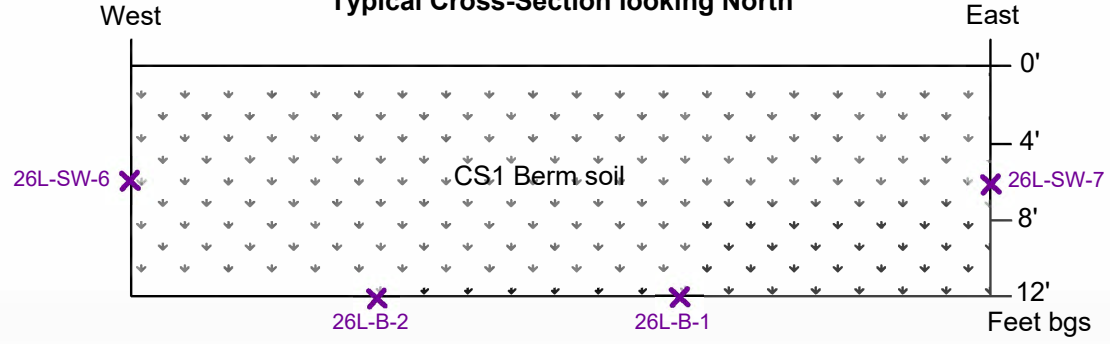
- Qualifiers:**
- A Exceeds NR720 Non-industrial direct contact RCL
 WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
 - B Exceeds NR720 Industrial direct contact RCL
 WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
 - C Exceeds NR720 Groundwater pathway RCL WDNr
 RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
 - J Concentration is estimated because it was detected below the practical quantitation limit

- Notes:**
- Where Naphthalene was detected as both VOC and PAH, the PAH results are shown because they are analysis specific.

Plan View

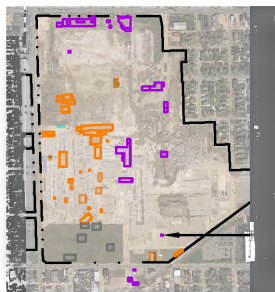


Typical Cross-Section looking North



Drawn: ZPA 4/3/2018
 Checked: PL 1/31/2017
 Approved: LLA 1/31/2017
 PROJECT NUMBER 60523016
 FIGURE NUMBER 13

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E34L

Excavation E34L

LEGEND

- Excavation Perimeter
- Excavation Extension
- SW-# Sidewall Sample Location
- B-# Bottom Sample Location
- VOCs Volatile Organic Compounds
- PAHs Polycyclic Aromatic Hydrocarbons
- CHR Crystalline
- RCL Residual Contaminant Level
- ND No Detects
- NE No Exceedances

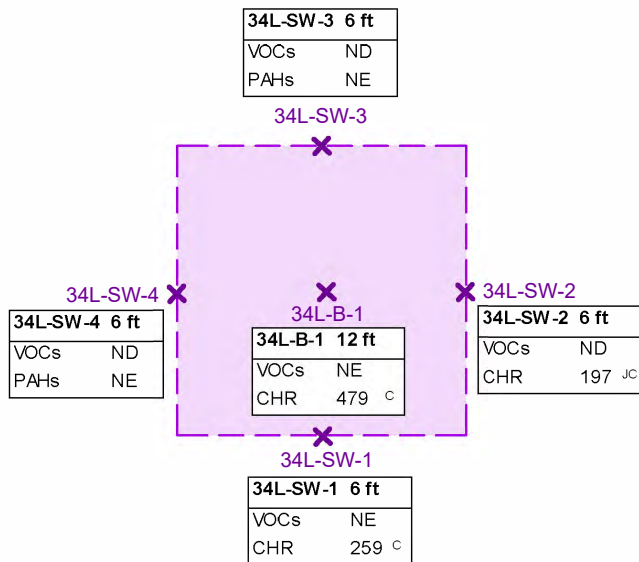
Qualifiers:

- A Exceeds NR720 Non-industrial direct contact RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit

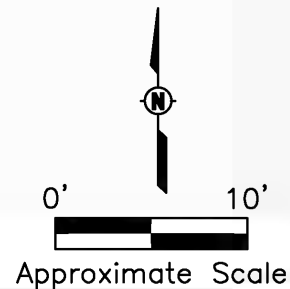
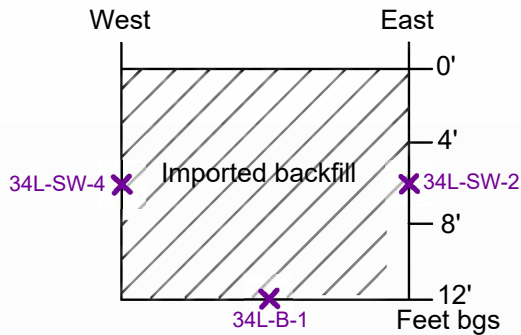
Notes:

1. Where Naphthalene was detected as both VOC and PAH, the PAH results are shown because they are analysis specific.

Plan View



Typical Cross-Section Looking North



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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E34L
KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn : ZPA 4/3/2018

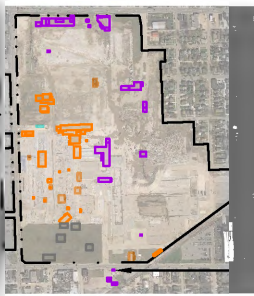
Checked: PL 1/31/2017

Approved: LLA 1/31/2017

PROJECT NUMBER 60523016

FIGURE NUMBER 14

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E36L

Excavation E36L

LEGEND

- X — Fence
- - - Excavation Perimeter
- - - Excavation Extension
- SW-# Sidewall Sample Location
- B-# Bottom Sample Location
- SW-# Excavated Sidewall Sample Location
- VOCs Volatile Organic Compounds
- PAHs Polycyclic Aromatic Hydrocarbons
- CHR Chrysene
- B(a)P Benzo(a)pyrene
- B(b)F Benzo(b)fluoranthene
- RCL Residual Contaminant Level
- ND No Detects
- NE No Exceedances

Qualifiers:

- A Exceeds NR720 Non-industrial direct contact RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit

Notes:

1. Where Naphthalene was detected as both VOC and PAH, the PAH results are shown because they are analysis specific.

Plan View

36L-SW-3 2 ft	
TCE	40.1 ^{J C}
PAHs	NE

36L-SW-3

36L-SW-4 2 ft	
VOCs	ND
PAHs	NE

36L-SW-4

36L-SW-1 2 ft	
VOCs	NE
B(a)P	817 ^{AC}
B(b)F	1,140 ^C

36L-SW-1

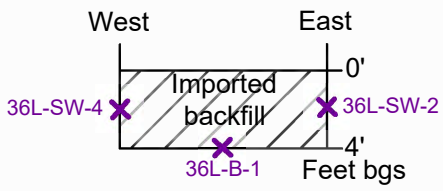
36L-SW-2 2 ft	
VOCs	ND
PAHs	NE

36L-SW-2

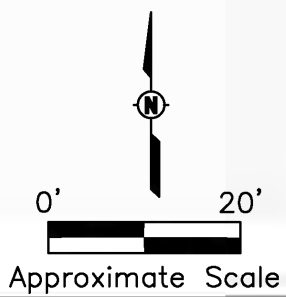
36L-B-1 4 ft	
VOCs	ND
B(a)P	179 ^A
CHR	173 ^C

36L-B-1

Typical Cross-Section Looking North



Excavation E48M



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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E36L
KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn :	ZPA 4/3/2018
Checked:	PL 1/31/2017
Approved:	LLA 1/31/2017
PROJECT NUMBER	60523016
FIGURE NUMBER	15

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E48M and E49M

Excavations E48M and E49M

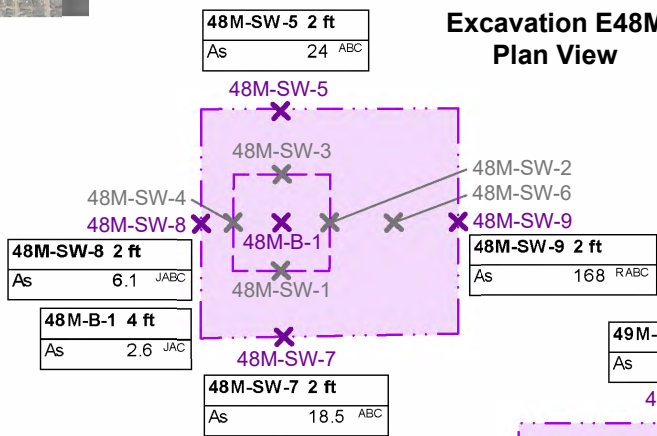
LEGEND

- Fence
- - - Excavation Perimeter
- - - Excavation Extension
- SW-# Sidewall Sample Location
- B-# Bottom Sample Location
- SW-# Excavated Sidewall Sample Location
- As Arsenic
- RCL Residual Contaminant Level

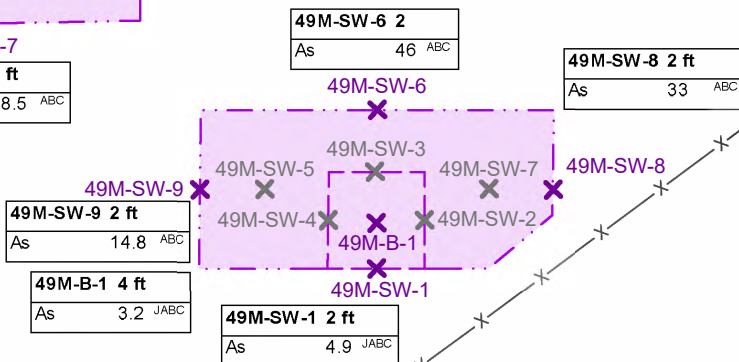
Qualifiers:

- A Exceeds NR720 Non-industrial direct contact RCL
WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL
WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL
WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit.
- R Rejected Lab QA/QC indicates data did not meet required quality control measurements

Excavation E48M Plan View



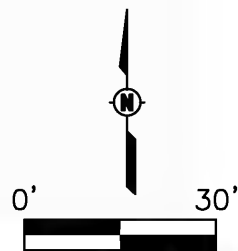
Excavation E49M Plan View



Excavation E48M Typical Cross-Section Looking North



Excavation E49M Typical Cross-Section Looking North



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VERIFICATION SAMPLE RESULTS FOR EXCAVATIONS E48M AND E49M
KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn : ZPA 4/3/2018

Checked: PL 1/31/2017

Approved: LLA 1/31/2017

PROJECT NUMBER 60523016

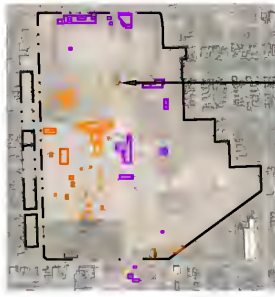
FIGURE NUMBER 16

LEGEND

- Excavation Perimeter
- - - Excavation Extension
- SW-# Sidewall Sample Location
- B-# Bottom Sample Location
- SW-# Excavated Sidewall Sample Location
- VOCs Volatile Organic Compounds
- BEN Benzene
- NAP Naphthalene
- 1,1-DCA 1,1-Dichloroethane
- 1,1-DCE 1,1-Dichloroethene
- Cis-DCE Cis-1,2-Dichloroethene
- Trans-DCE Trans-1,2-Dichloroethene
- TCE Trichloroethene
- VC Vinyl Chloride
- RCL Residual Contaminant Level

Qualifiers:

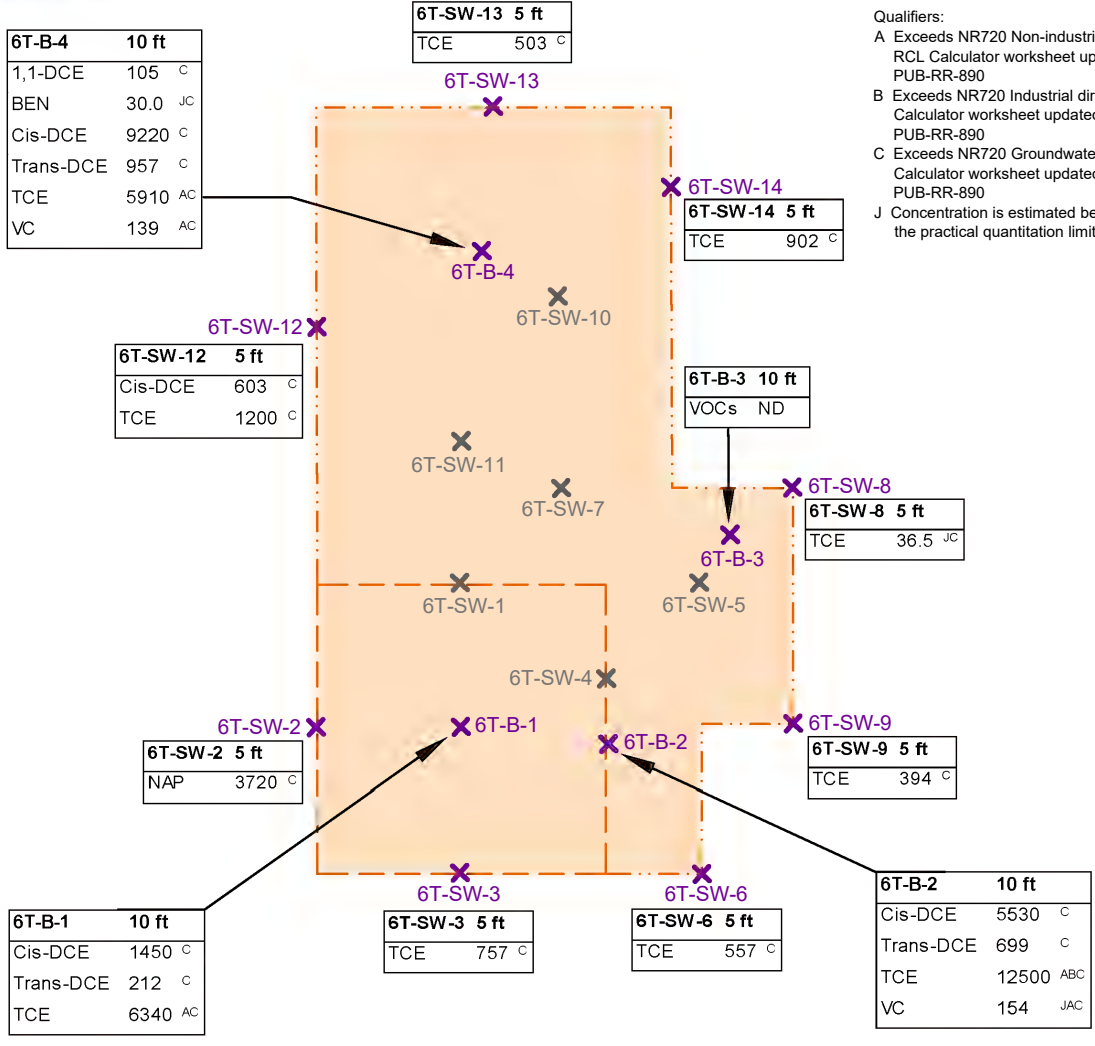
- A Exceeds NR720 Non-industrial direct contact RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit



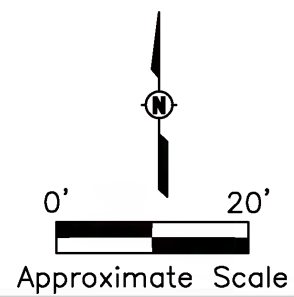
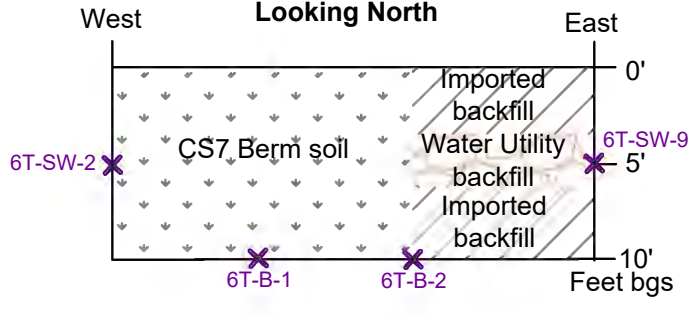
E6T

Excavation E6T

Plan View



Typical Cross-Section Looking North



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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E6T KENOSHA ENGINE PLANT CITY OF KENOSHA KENOSHA, WISCONSIN

Drawn :	ZPA	4/3/2018
Checked:	PL	1/31/2017
Approved:	LLA	1/31/2017
PROJECT NUMBER	60523016	
FIGURE NUMBER	17	

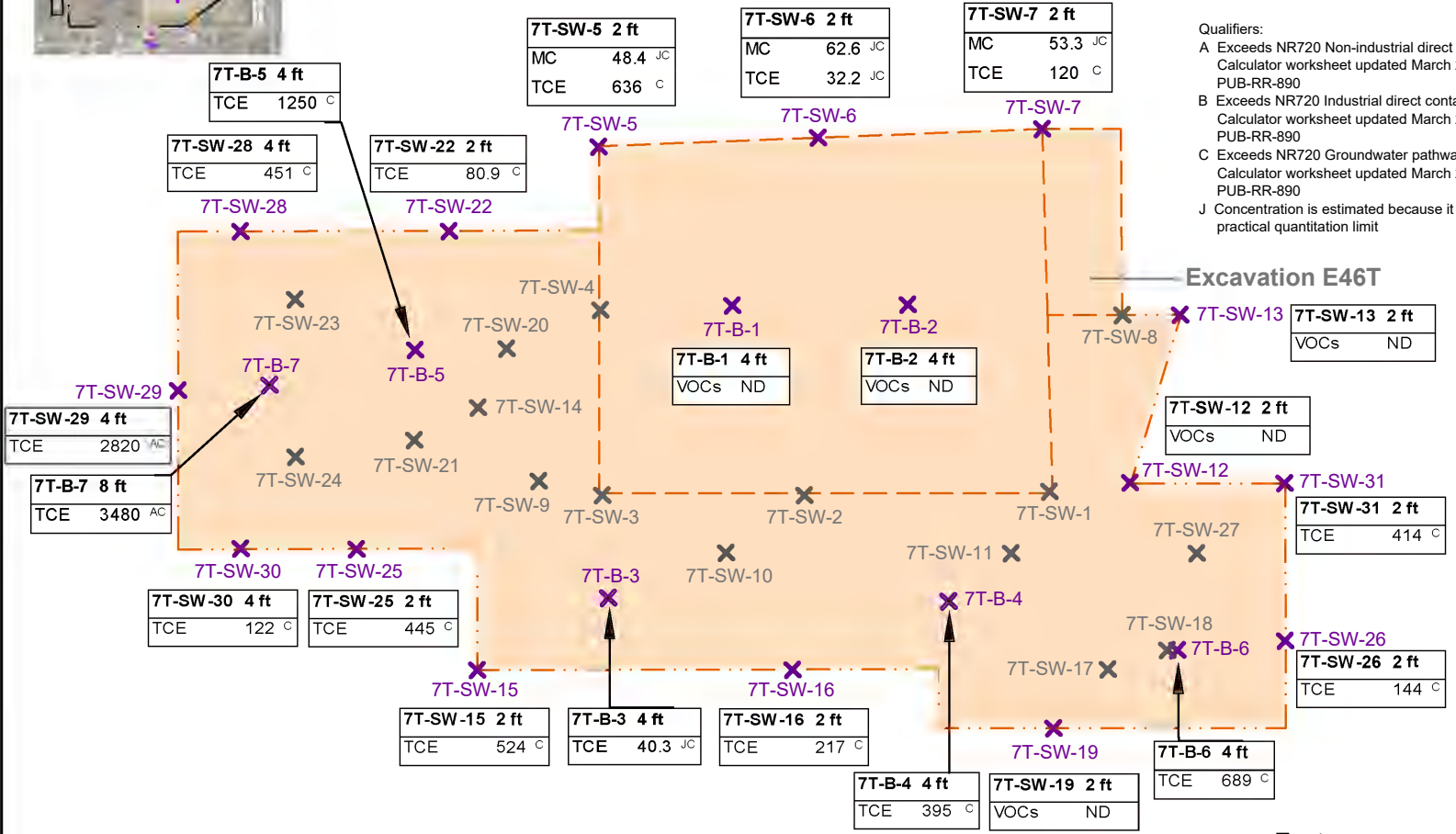
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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E7T
 KENOSHA ENGINE PLANT
 CITY OF KENOSHA
 KENOSHA, WISCONSIN



Excavation E7T

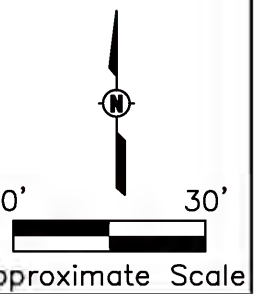
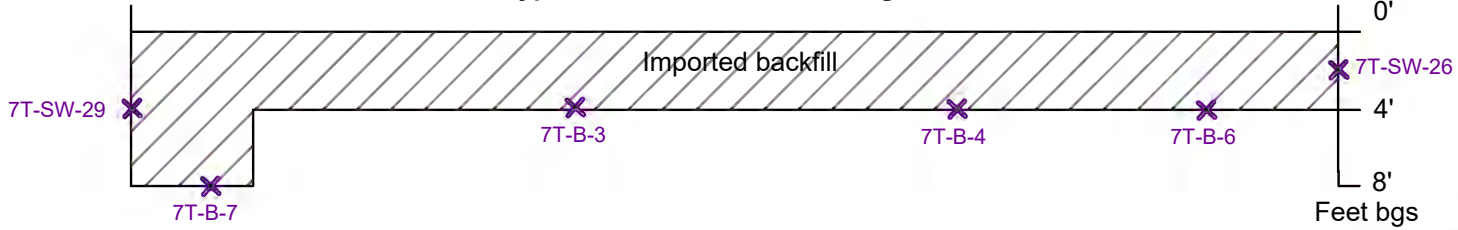
Plan View



- LEGEND**
- Excavation Perimeter
 - Excavation Extension
 - SW-# Sidewall Sample Location
 - B-# Bottom Sample Location
 - SW-# Excavated Sidewall Sample Location
 - VOCs Volatile Organic Compounds
 - MC Methylene chloride
 - TCE Trichloroethene
 - RCL Residual Contaminant Level
 - ND No Detects

- Qualifiers:**
- A Exceeds NR720 Non-industrial direct contact RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
 - B Exceeds NR720 Industrial direct contact RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
 - C Exceeds NR720 Groundwater pathway RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
 - J Concentration is estimated because it was detected below the practical quantitation limit

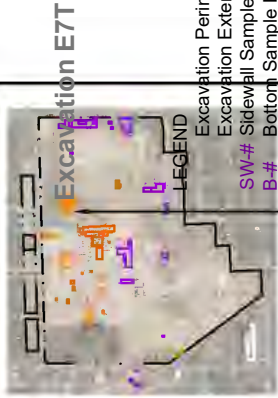
Typical Cross-Section Looking North



Drawn: ZPA 4/3/2018
 Checked: PL 1/31/2017
 Approved: LLA 1/31/2017
 PROJECT NUMBER: 605230716
 FIGURE NUMBER: 18

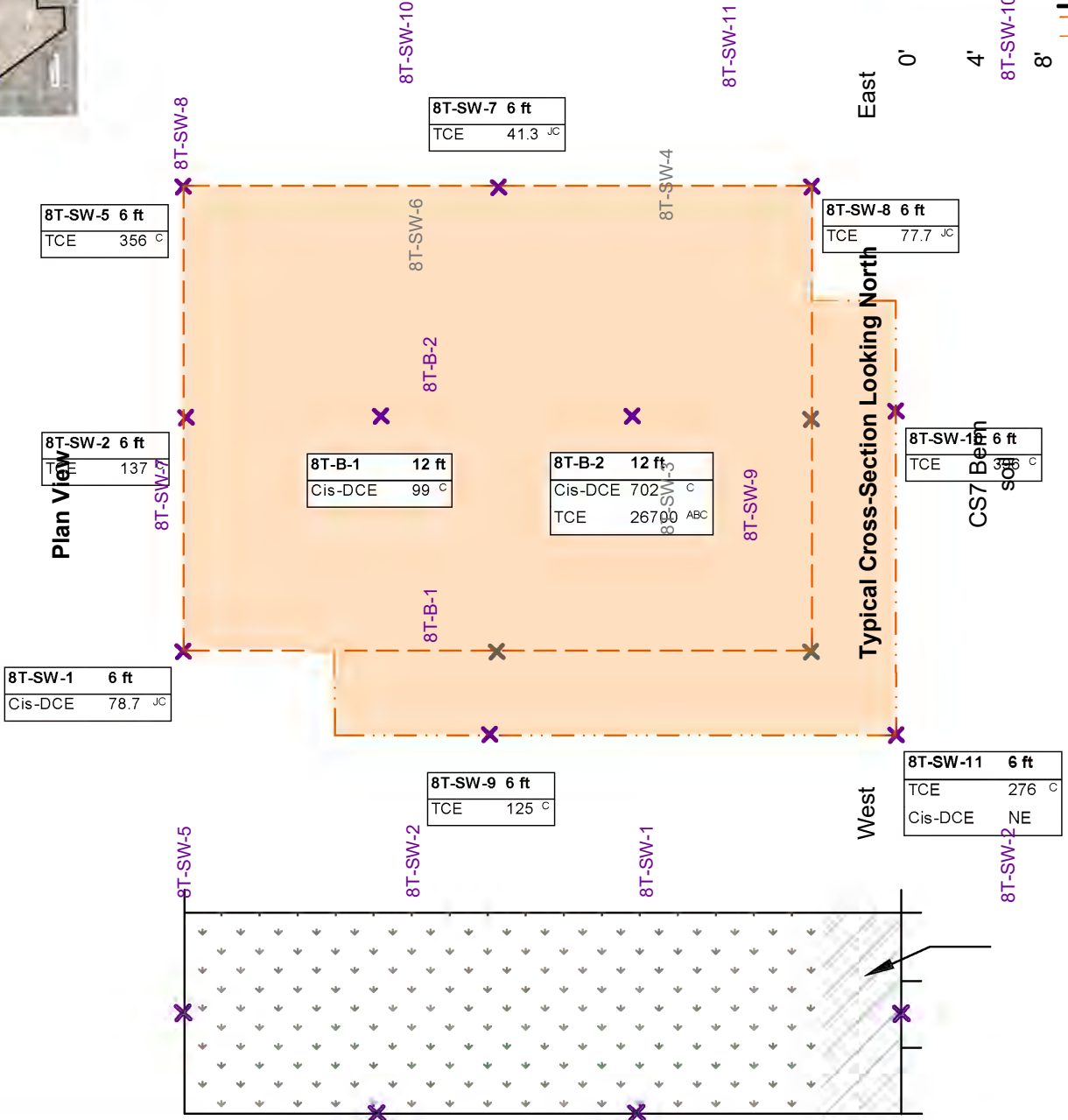
Excavation E8T

E8T



- LEGEND**
- Excavation Perimeter
 - Excavation Extension
 - Excavation Sidewall Sample Location
 - SW-# Sidewall Sample Location
 - B-# Bottom Sample Location
 - SW-# Excavated Sidewall Sample Location
 - 1,1-DCA 1,1-Dichloroethane
 - Cis-DCE Cis-1,2-Dichloroethene
 - TCE Trichloroethene
 - RCL Residual Contaminant Level
 - NE No Exceedances

- Qualifiers:**
- A Exceeds NRI720 Non-industrial direct contact RCL
 - WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
 - B Exceeds NRI720 Industrial direct contact RCL
 - WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
 - C Exceeds NRI720 Groundwater pathway RCL
 - WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
 - J Concentration is estimated because it was detected below the practical quantitation limit



Imported backfill

East

West

0' 4' 8' 12'

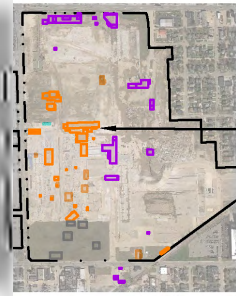
8T-B-2

8T-B-1

0'

Approx

VERIFICATION SAMPLE RESULTS FOR EXCAVATION E8T KENOSHA ENGINE PLANT CITY OF KENOSHA KENOSHA, WISCONSIN



E10T and E22B

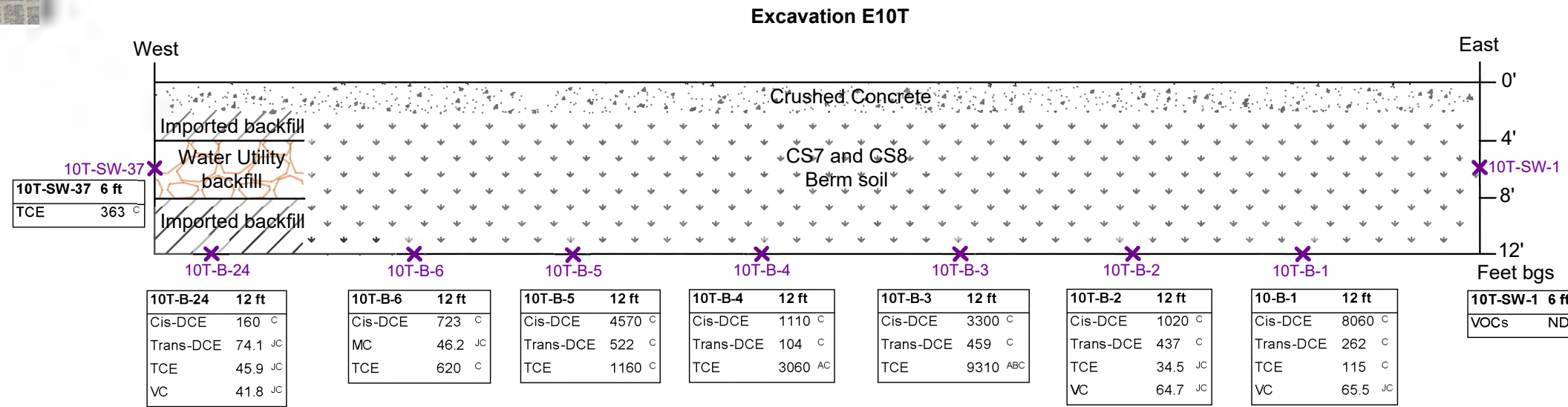
Excavations E10T and E22B Typical Cross-Sections Looking North

LEGEND

- SW-# Sidewall Sample Location
- B-# Bottom Sample Location
- VOCs Volatile Organic Compounds
- PAHs Polycyclic Aromatic Hydrocarbons
- BEN Benzene
- ETH Ethylbenzene
- XYL Total Xylenes
- NAP Naphthalene
- Cis-DCE Cis-1,2-Dichloroethene
- Trans-DCE Trans-1,2-Dichloroethene
- MC Methylene chloride
- TCE Trichloroethene
- VC Vinyl Chloride
- 1,2,4-TMB 1,2,4-Trimethylbenzene
- 1,3,5-TMB 1,3,5-Trimethylbenzene
- RCL Residual Contaminant Level
- ND No Detects
- NE No Exceedances



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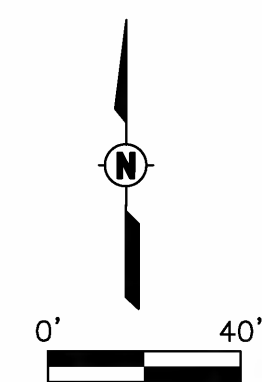
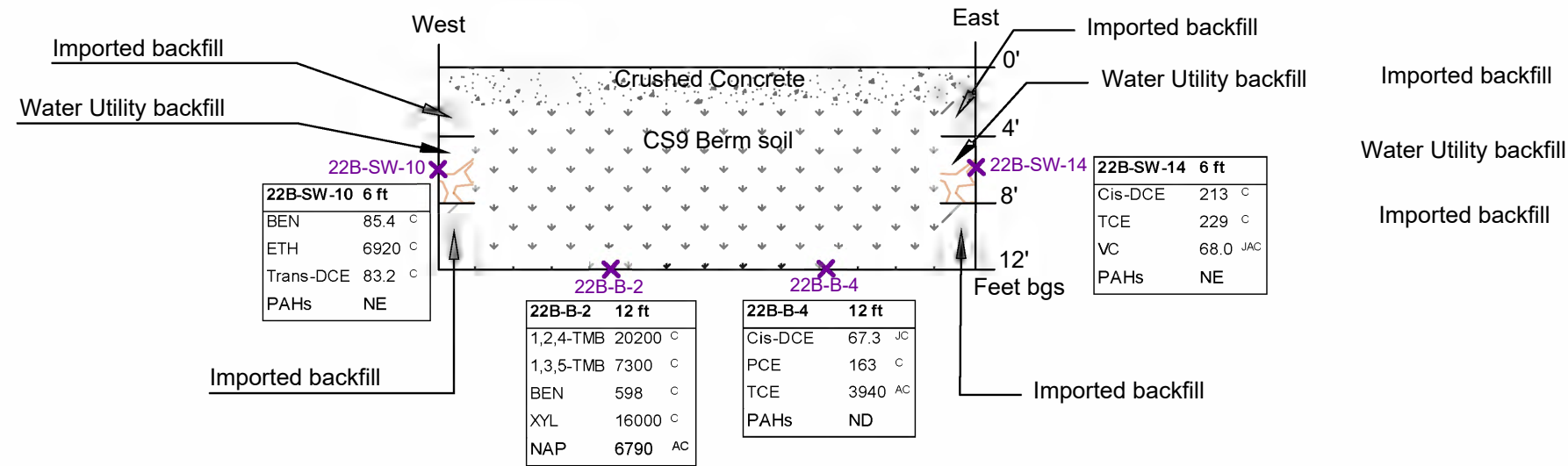
Qualifiers:

- A Exceeds NR720 Non-industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit

Notes:

1. This is only cross section representation, refer to Figure 20a for additional details.
2. Where Naphthalene was detected as both VOC and PAH, the PAH results are shown because they are analysis specific.

Excavation E22B



VERIFICATION SAMPLE RESULTS FOR EXCAVATIONS E10T AND E22B CROSS-SECTION
KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn : ZPA 4/3/2018

Checked: LLA 12/3/2014

Approved: KWB 12/3/2014

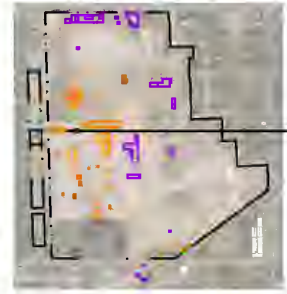
PROJECT NUMBER 60328684

FIGURE NUMBER 20b

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VERIFICATION RESULTS FOR EXCAVATIONS E15T AND E16T
 KENOSHA ENGINE PLANT
 CITY OF KENOSHA
 KENOSHA, WISCONSIN



E15T and E16T

Excavations E15T and E16T

- LEGEND**
- Fence
 - Excavation Perimeter
 - - - Excavation Extension
 - SW-# Sidewall Sample Location
 - B-# Bottom Sample Location
 - SW-# Excavated Sidewall Sample Location
 - VOCs Volatile Organic Compounds
 - BEN Benzene
 - ETH Ethylbenzene
 - XYL Total Xylenes
 - NAP Naphthalene
 - Cis-DCE Cis-1,2-Dichloroethene
 - Trans-DCE Trans-1,2-Dichloroethene
 - TCE Trichloroethene
 - VC Vinyl Chloride
 - 1,2,4-TMB 1,2,4-Trimethylbenzene
 - 1,3,5-TMB 1,3,5-Trimethylbenzene
 - RCL Residual Contaminant Level
 - ND No Detects
 - NE No Exceedances

15T-B-1 6 ft

1,2,4-TMB	6970	°
1,3,5-TMB	1850	°
BEN	65.7	JC
EYL	2240	°
NAP	2670	°
XYL	4830	°

16T-B-1 12 ft

BEN	405	°
Cis-DCE	15800	°
TCE	21500	ABC
VC	304	JAC

16T-B-2 12 ft

Cis-DCE	2670	°
TCE	30600	ABC

15T-SW-2 3 ft

VOCs	ND
------	----

16T-SW-9 6 ft

VOCs	NE
------	----

15T-SW-1 3 ft

VOCs	ND
------	----

16T-SW-2 6 ft

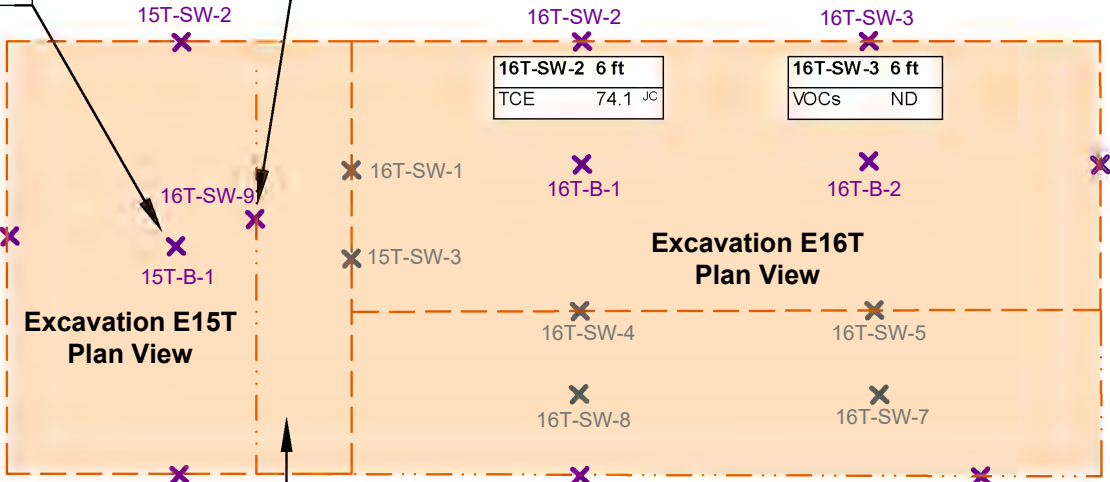
TCE	74.1	JC
-----	------	----

16T-SW-3 6 ft

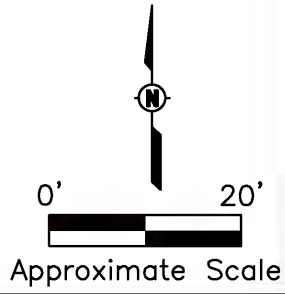
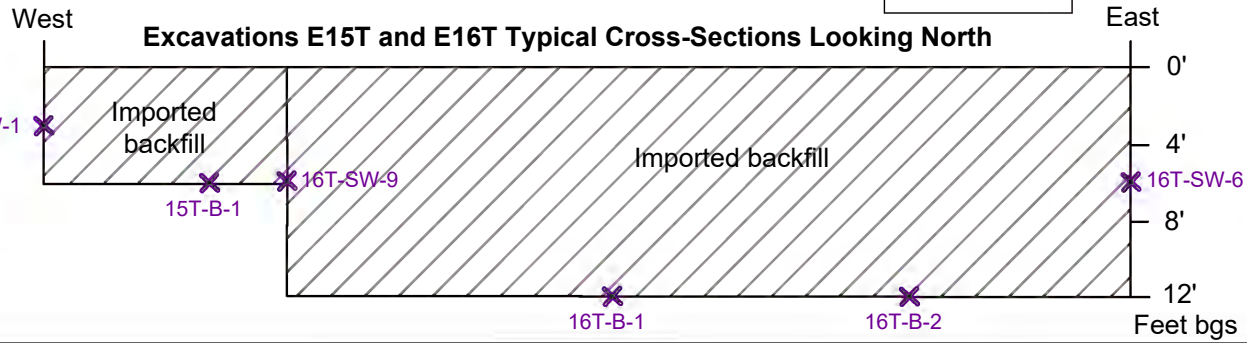
VOCs	ND
------	----

16T-SW-6 6 ft

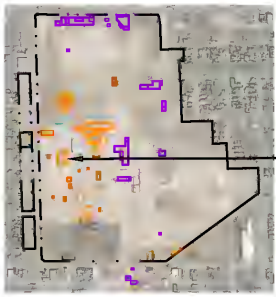
VOCs	ND
------	----



- Qualifiers:**
- A Exceeds NR720 Non-industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
 - B Exceeds NR720 Industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
 - C Exceeds NR720 Groundwater pathway RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
 - J Concentration is estimated because it was detected below the practical quantitation limit



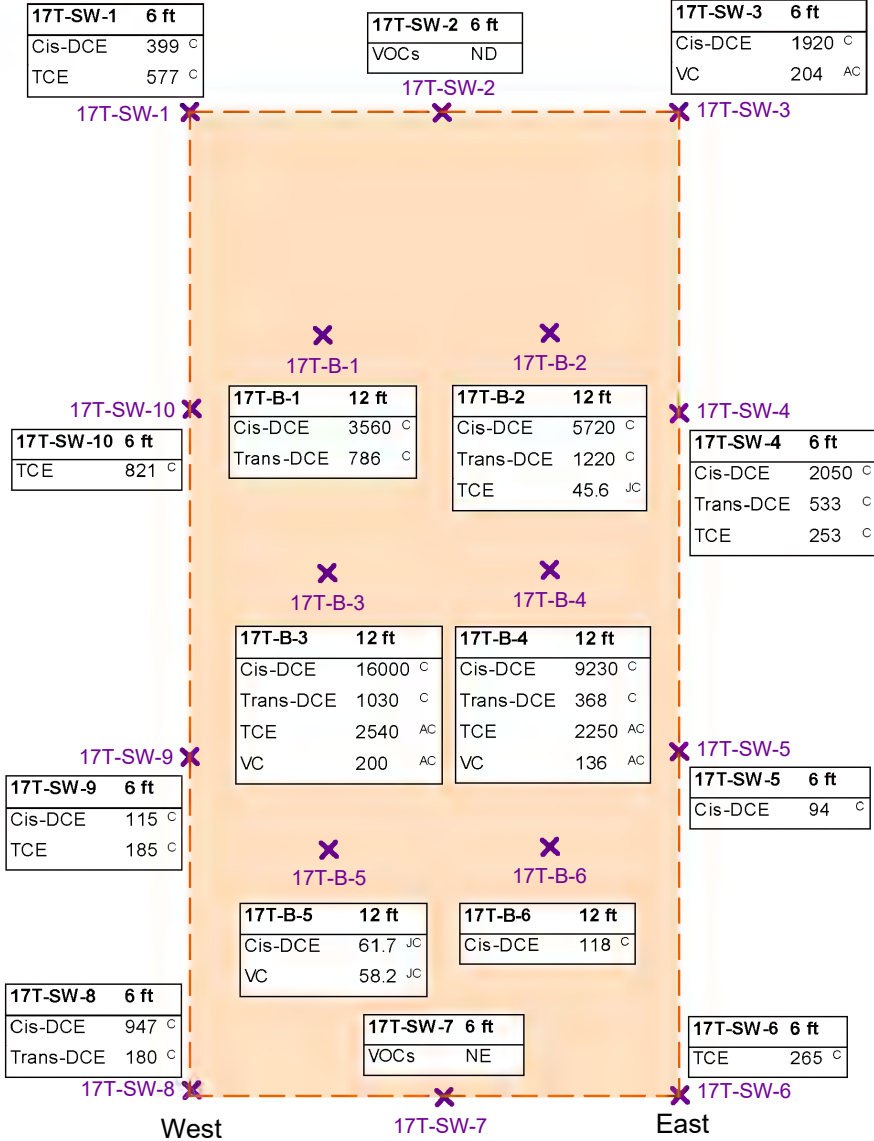
Drawn: ZPA 4/3/2018
 Checked: PL 1/31/2017
 Approved: LLA 1/31/2017
 PROJECT NUMBER: 605230716
 FIGURE NUMBER: 21



E17T

Excavation E17T

Plan View



LEGEND

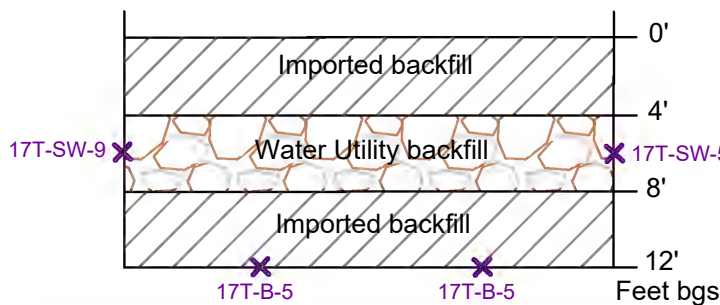
- Excavation Perimeter
- Excavation Extension
- SW-# Sidewall Sample Location
- B-# Bottom Sample Location
- VOCs Volatile Organic Compounds
- NAP Naphthalene
- Cis-DCE Cis-1,2-Dichloroethene
- Trans-DCE Trans-1,2-Dichloroethene
- TCE Trichloroethene
- VC Vinyl Chloride
- RCL Residual Contaminant Level
- ND No Detects
- NE No Exceedances

Qualifiers:

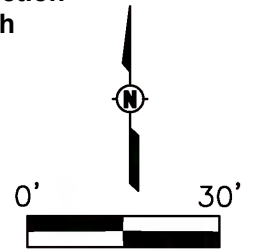
- A Exceeds NR720 Non-industrial direct contact RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit

West

East



Typical Cross-Section Looking North



Approximate Scale



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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E17T
KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn : ZPA 4/3/2018

Checked: PL 1/31/2017

Approved: LLA 1/31/2017

PROJECT NUMBER 60523016

FIGURE NUMBER 22

C:\Users\l.zachary\albert\Documents\Projects\KEP - Stewide Excavations - Results - ZA.dwg; 5/30/2018 2:02:16 PM; ALBERT, ZACHARY, -----



E18T

Excavation E18T

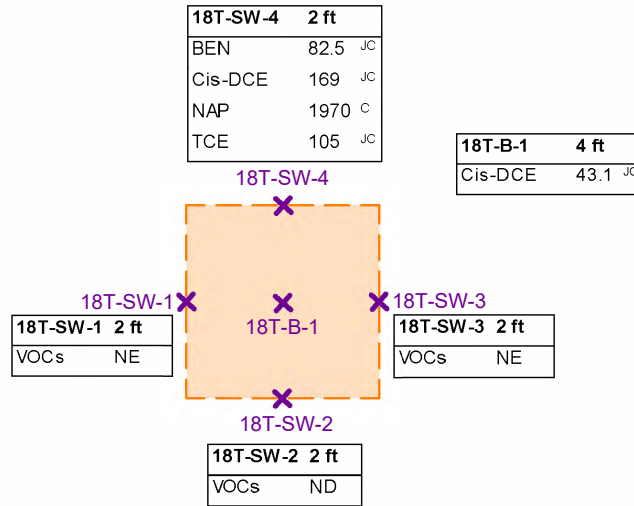
LEGEND

- Excavation Perimeter
- Excavation Extension
- Sidewall Sample Location
- Bottom Sample Location
- VOCs Volatile Organic Compounds
- BEN Benzene
- NAP Naphthalene
- Cis-DCE Cis-1,2-Dichloroethene
- TCE Trichloroethene
- RCL Residual Contaminant Level
- ND No Detects
- NE No Exceedances

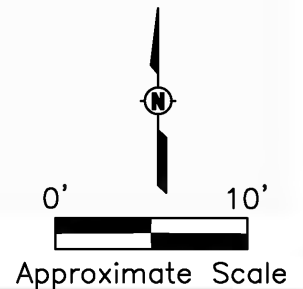
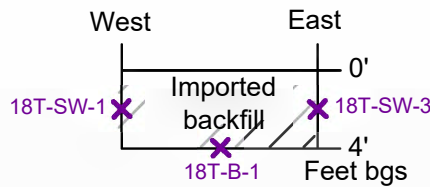
Qualifiers:

- A Exceeds NR720 Non-industrial direct contact RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit

Plan View



Typical Cross-Section looking North



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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E18T
KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn : ZPA 4/3/2018

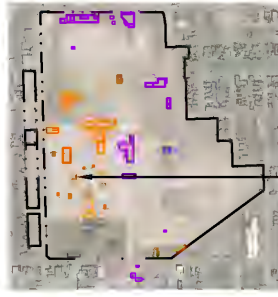
Checked: PL 1/31/2017

Approved: LLA 1/31/2017

PROJECT NUMBER 60523016

FIGURE NUMBER 23

C:\Users\l.zachary\Documents\Projects\KWP - Stewie Remediation\CAD\KWP - Stewie Remediation\Excavations - Results - ZA.dwg; 5/30/2018 2:02:21 PM; ALBERT, ZACHARY, -



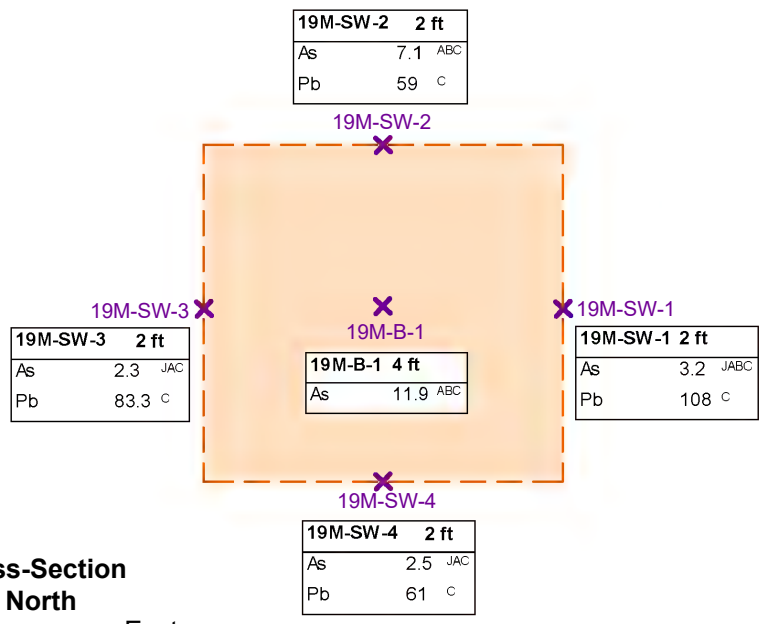
E19M

Excavation E19M

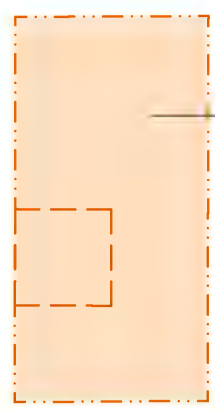
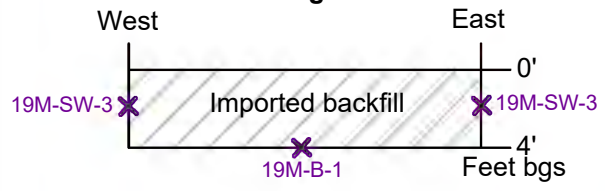
- LEGEND**
- Excavation Perimeter
 - Excavation Extension
 - x SW-# Sidewall Sample Location
 - x B-# Bottom Sample Location
 - As Arsenic
 - Pb Lead
 - RCL Residual Contaminant Level

- Qualifiers:**
- A Exceeds NR720 Non-industrial direct contact RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
 - B Exceeds NR720 Industrial direct contact RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
 - C Exceeds NR720 Groundwater pathway RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
 - J Concentration is estimated because it was detected below the practical quantitation limit

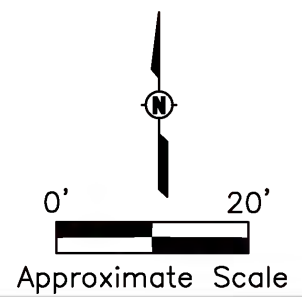
Plan View



Typical Cross-Section Looking North



Excavation E41T

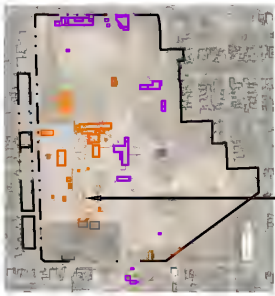


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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E19M
 KENOSHA ENGINE PLANT
 CITY OF KENOSHA
 KENOSHA, WISCONSIN

Drawn :	ZPA	4/3/2018
Checked:	PL	1/31/2017
Approved:	LLA	1/31/2017
PROJECT NUMBER	60523016	
FIGURE NUMBER	24	

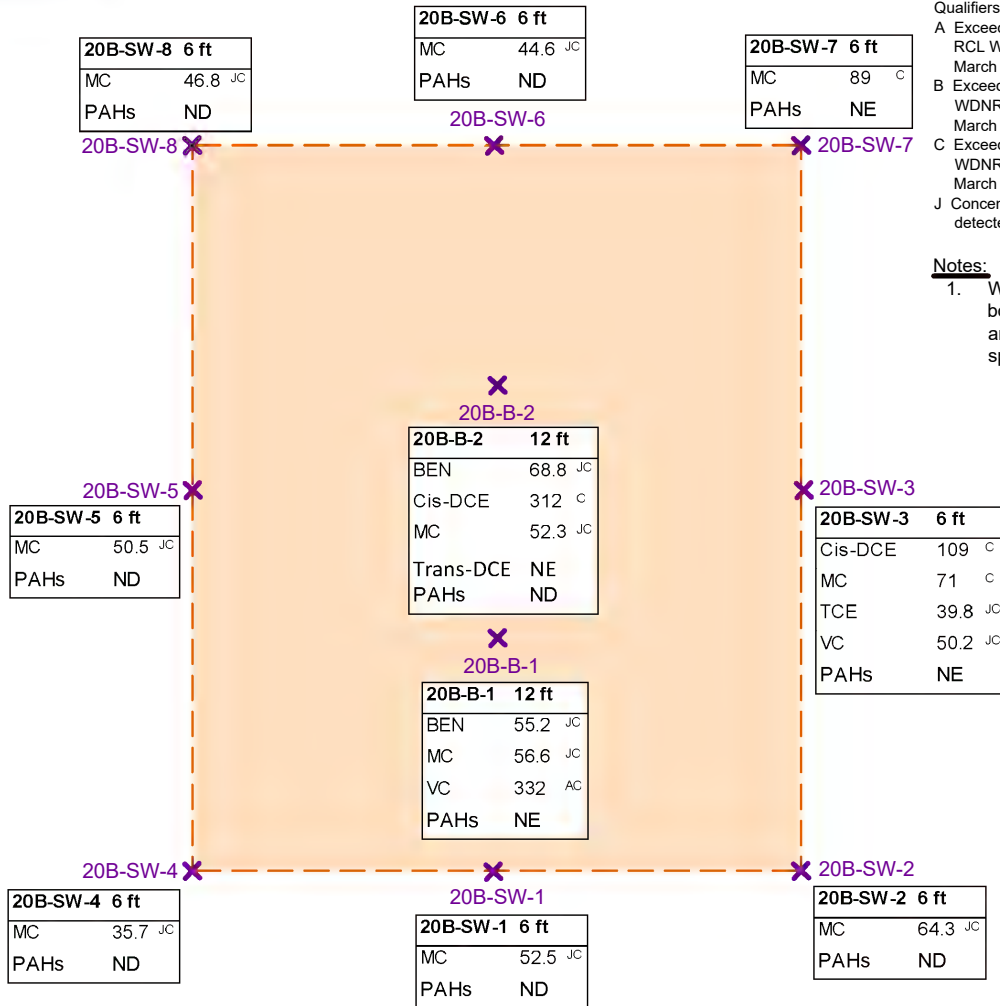
C:\Users\lachary.albert\Documents\Projects\KEMP - Stewie Excavations - Results - ZA.dwg; 5/30/2018 2:02:26 PM; ALBERT, ZACHARY, -----



E20B

Excavation E20B

Plan View



LEGEND

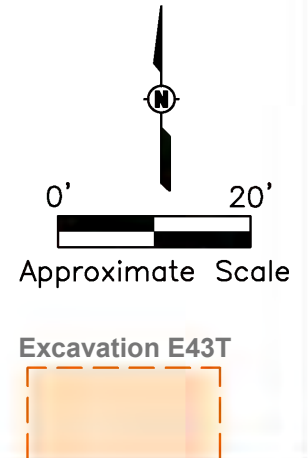
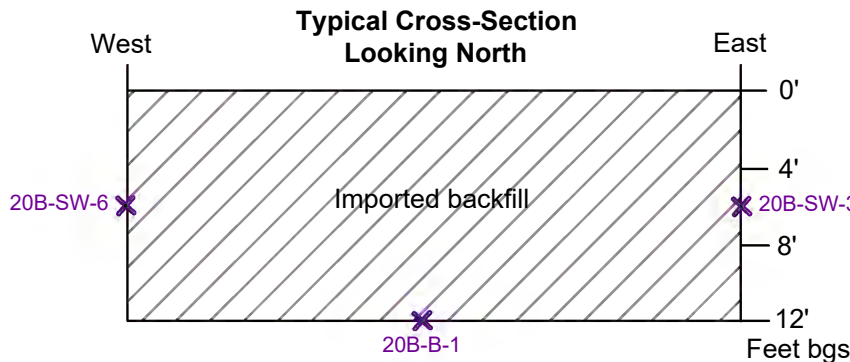
- Excavation Perimeter
- Excavation Extension
- SW-# Sidewall Sample Location
- B-# Bottom Sample Location
- PAHs Polycyclic Aromatic Hydrocarbons
- BEN Benzene
- TOL Toluene
- Cis-DCE Cis-1,2-Dichloroethene
- Trans-DCE Trans-1,2-Dichloroethene
- MC Methylene chloride
- TCE Trichloroethene
- VC Vinyl Chloride
- RCL Residual Contaminant Level
- ND No Detects
- NE No Exceedances

Qualifiers:

- A Exceeds NR720 Non-industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit

Notes:

1. Where Naphthalene was detected as both VOC and PAH, the PAH results are shown because they are analysis specific.



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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E20B KENOSHA ENGINE PLANT CITY OF KENOSHA KENOSHA, WISCONSIN

Drawn :	ZPA	4/3/2018
Checked:	PL	1/31/2017
Approved:	LLA	1/31/2017
PROJECT NUMBER	60523016	
FIGURE NUMBER	25	



Excavation E21T

E21T

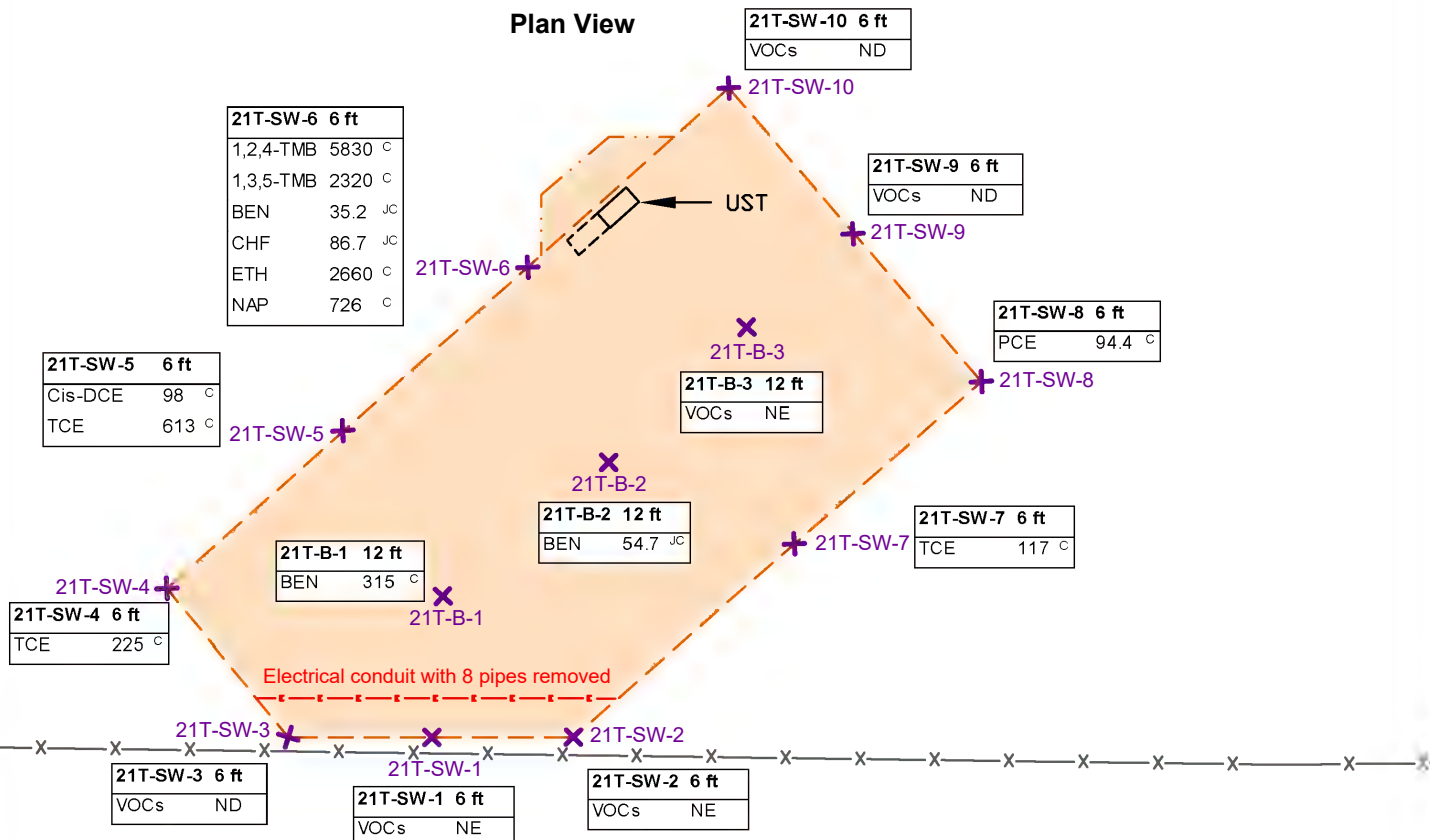
LEGEND

- Fence
- Excavation Perimeter
- Excavation Extension
- Electrical
- Underground Storage Tank
- SW-#** Sidewall Sample Location
- B-#** Bottom Sample Location
- VOCs Volatile Organic Compounds
- BEN Benzene
- ETH Ethylbenzene
- NAP Naphthalene
- Cis-DCE Cis-1,2-Dichloroethene
- TCE Trichloroethene
- PCE Tetrachloroethene
- CHF Chloroform
- 1,2,4-TMB 1,2,4-Trimethylbenzene
- 1,3,5-TMB 1,3,5-Trimethylbenzene
- RCL Residual Contaminant Level
- ND No Detects
- NE No Exceedances

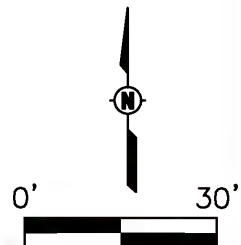
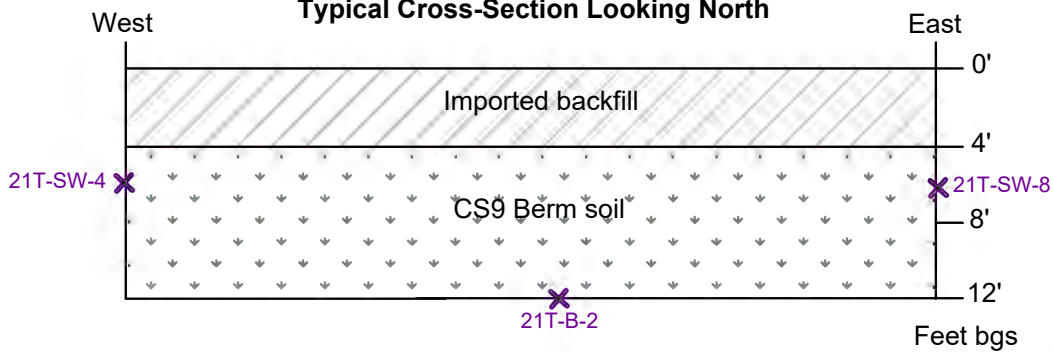
Qualifiers:

- A Exceeds NR720 Non-industrial direct contact RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit

Plan View



Typical Cross-Section Looking North



Approximate Scale



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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E21T
KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn : ZPA 4/3/2018

Checked: PL 1/31/2017

Approved: LLA 1/31/2017

PROJECT NUMBER 60523016

FIGURE NUMBER 26



Excavation E22B

E23P

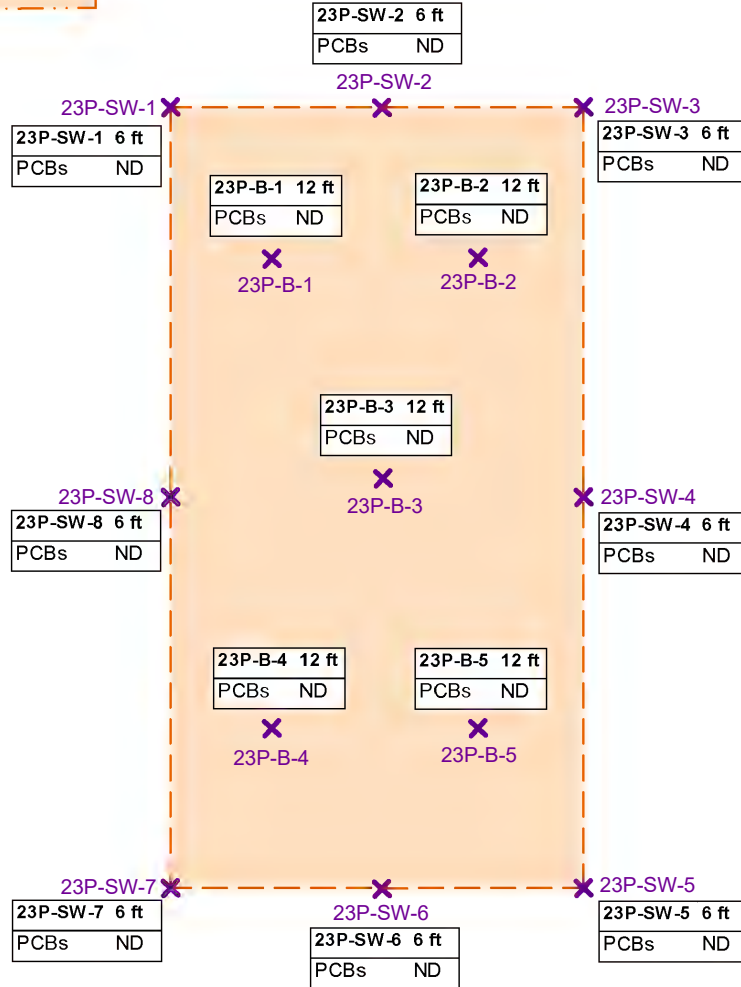
LEGEND

- Excavation Perimeter
- Excavation Extension
- SW-# Sidewall Sample Location
- B-# Bottom Sample Location
- PCB Polychlorinated Biphenyls
- RCL Residual Contaminant Level
- ND No Detects

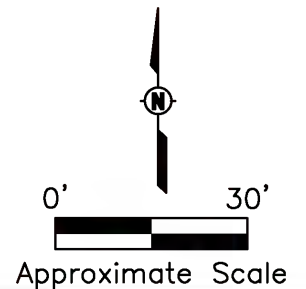
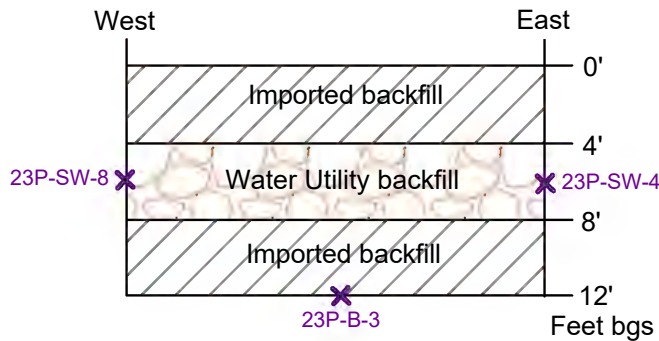
Qualifiers:

- A Exceeds NR720 Non-industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit

**Excavation E23P
Plan View**



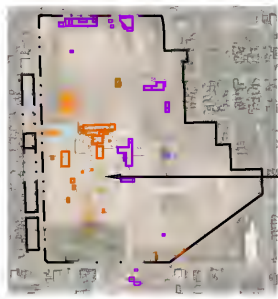
**Typical Cross-Section
Looking North**



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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E23P
KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

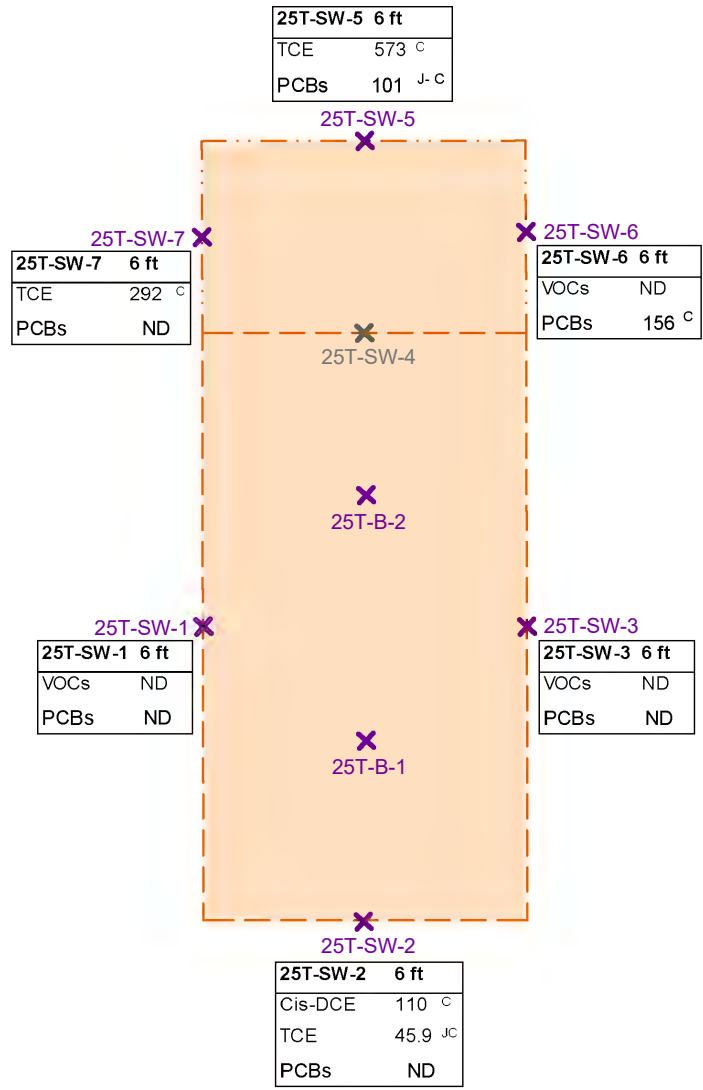
Drawn :	ZPA	4/3/2018
Checked:	PL	1/31/2017
Approved:	LLA	1/31/2017
PROJECT NUMBER	60523016	
FIGURE NUMBER	27	



E25T

Excavation E25T

Plan View



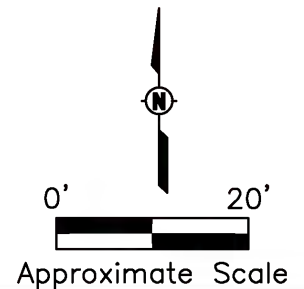
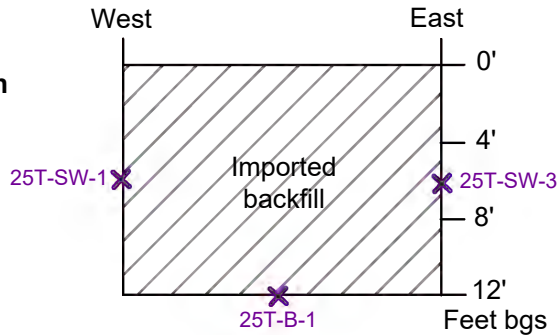
LEGEND

- Excavation Perimeter
- Excavation Extension
- SW-# Sidewall Sample Location
- B-# Bottom Sample Location
- SW-# Excavated Sidewall Sample Location
- VOCs Volatile Organic Compounds
- Cis-DCE Cis-1,2-Dichloroethene
- TCE Trichloroethene
- VC Vinyl Chloride
- PCB Polychlorinated Biphenyls
- RCL Residual Contaminant Level
- ND No Detects

Qualifiers:

- A Exceeds NR720 Non-industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit

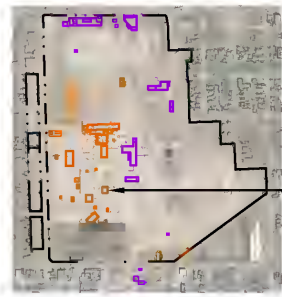
Typical Cross-Section Looking North



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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E25T
 KENOSHA ENGINE PLANT
 CITY OF KENOSHA
 KENOSHA, WISCONSIN

Drawn :	ZPA 4/3/2018
Checked:	PL 1/31/2017
Approved:	LLA 1/31/2017
PROJECT NUMBER	60523016
FIGURE NUMBER	28



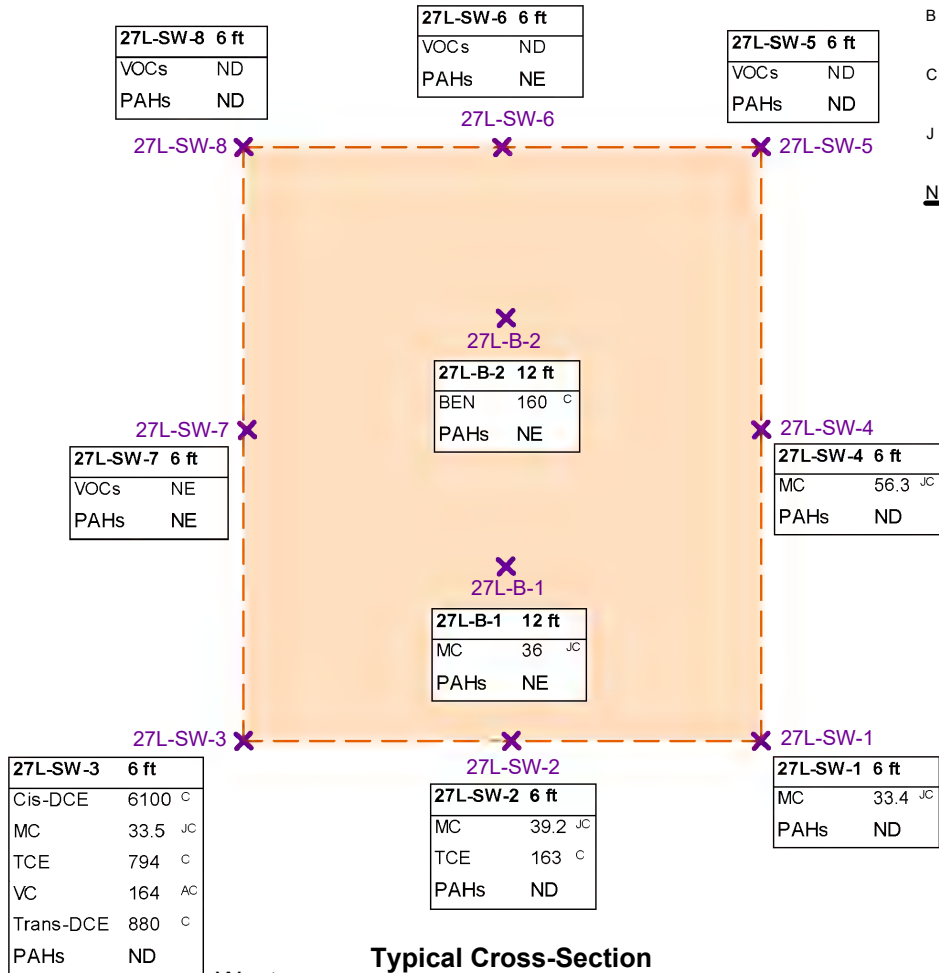
E27L

Excavation E27L

LEGEND

- Excavation Perimeter
- Excavation Extension
- SW-# Sidewall Sample Location
- B-# Bottom Sample Location
- VOCs Volatile Organic Compounds
- PAHs Polycyclic Aromatic Hydrocarbons
- BEN Benzene
- 1,1-DCA 1,1-Dichloroethane
- Cis-DCE Cis-1,2-Dichloroethane
- Trans-DCE Trans-1,2-Dichloroethane
- MC Methylene chloride
- TCE Trichloroethane
- VC Vinyl Chloride
- RCL Residual Contaminant Level
- ND No Detects
- NE No Exceedances

Plan View



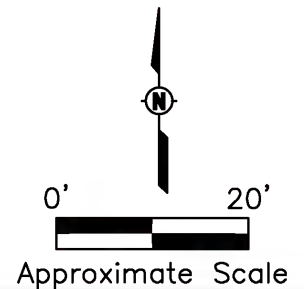
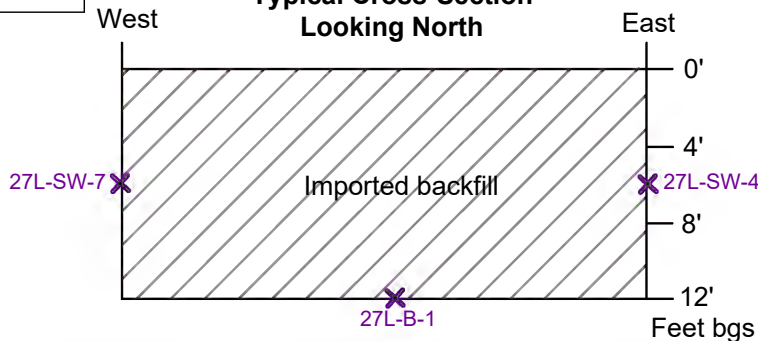
Qualifiers:

- A Exceeds NR720 Non-industrial direct contact RCL
WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL
WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL
WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit

Notes:

1. Where Naphthalene was detected as both VOC and PAH, the PAH results are shown because they are analysis specific.

Typical Cross-Section Looking North



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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E27L
KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn :	ZPA	4/3/2018
Checked:	PL	1/31/2017
Approved:	LLA	1/31/2017
PROJECT NUMBER	60523016	
FIGURE NUMBER	29	

Excavation E33T



Plan View

33T-SW-8 6 ft	
VOCs	ND

33T-SW-8

33T-SW-7 6 ft	
MC	43.9 ^{JC}
NAP	1150 ^C

33T-SW-7

33T-SW-6 6 ft	
MC	34.2 ^{JC}
TCE	31.8 ^{JC}

33T-SW-6

Sump 15 lines removed, 11/17/2016

33T-B-3

33T-B-3 12 ft	
Cis-DCE	662 ^C

33T-SW-5 6 ft	
VOCs	ND

33T-SW-5

33T-B-2

33T-B-2 12 ft	
1,1-DCA	661 ^C
Cis-DCE	1050 ^C
Trans-DCE	150 ^C

33T-SW-4

33T-SW-9

33T-SW-9 6 ft	
VOCs	ND

33T-B-1 12 ft	
1,1-DCA	1030 ^C
1,1-DCE	49 ^{JC}
Cis-DCE	694 ^C
Trans-DCE	86.4 ^C
TCE	95.6 ^C

33T-B-1

SUMP 17R

33T-SW-2 6 ft	
VOCs	ND

33T-SW-2

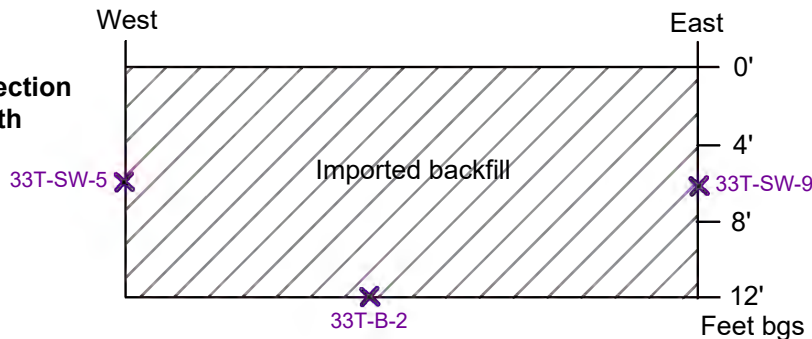
33T-SW-3 6 ft	
VOCs	ND

33T-SW-3

33T-SW-1

33T-SW-1 6 ft	
VOCs	NE

Typical Cross-Section Looking North



Approximate Scale

LEGEND

- Building
 - Property Boundary
 - Fence
 - Excavation Perimeter
 - Excavation Extension
 - Groundwater Sump
 - Sump Line
 - Abandoned Sump Line
 - SW-# Sidewall Sample Location
 - B-# Bottom Sample Location
 - SW-# Excavated Sidewall Sample Location
- VOCs Volatile Organic Compounds
 NAP Naphthalene
 1,1-DCA 1,1-Dichloroethane
 Cis-DCE Cis-1,2-Dichloroethane
 Trans-DCE Trans-1,2-Dichloroethane
 1,1,1-TCA 1,1,1-Trichloroethane
 MC Methylene chloride
 TCE Trichloroethane
 RCL Residual Contaminant Level
 ND No Detects
 NE No Exceedances

Southern remediation building

Qualifiers:

- A Exceeds NR720 Non-industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit



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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E33T
 KENOSHA ENGINE PLANT
 CITY OF KENOSHA
 KENOSHA, WISCONSIN

Drawn :	ZPA 4/3/2018
Checked:	PL 1/31/2017
Approved:	LLA 1/31/2017
PROJECT NUMBER	60523016
FIGURE NUMBER	30

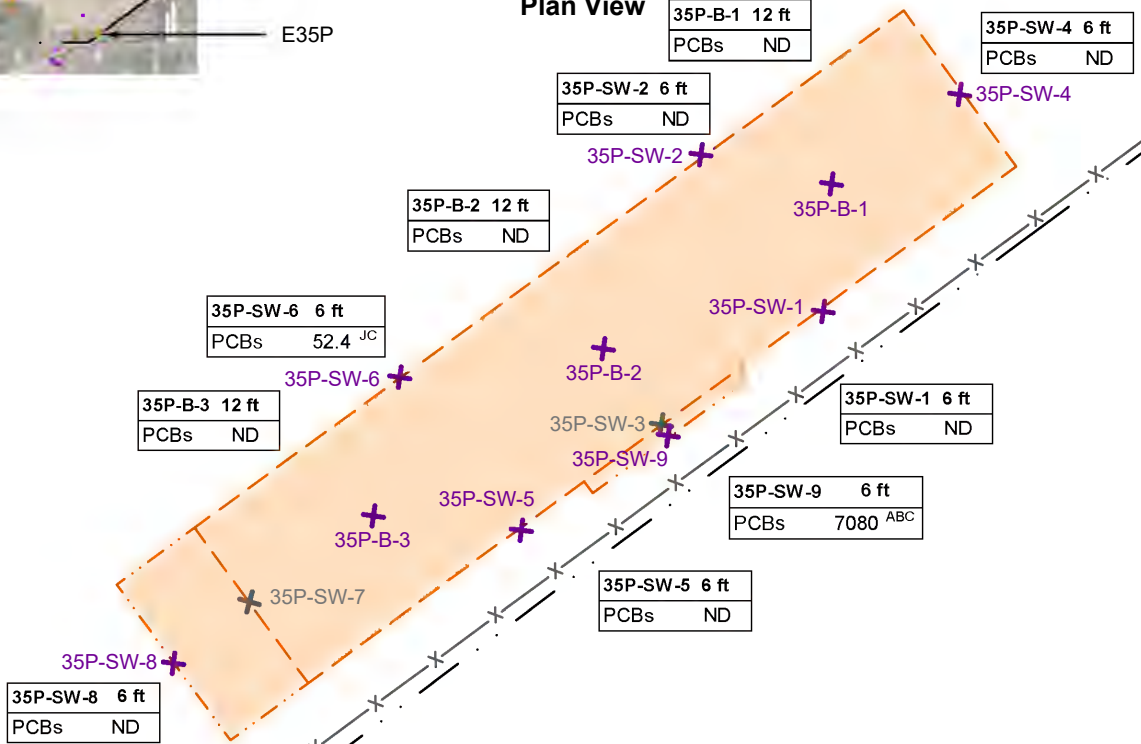
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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E35P
 KENOSHA ENGINE PLANT
 CITY OF KENOSHA
 KENOSHA, WISCONSIN



Excavation E35P

Plan View



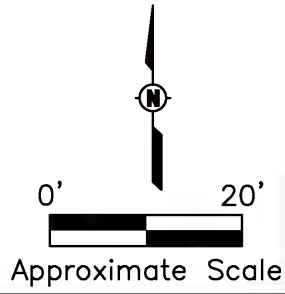
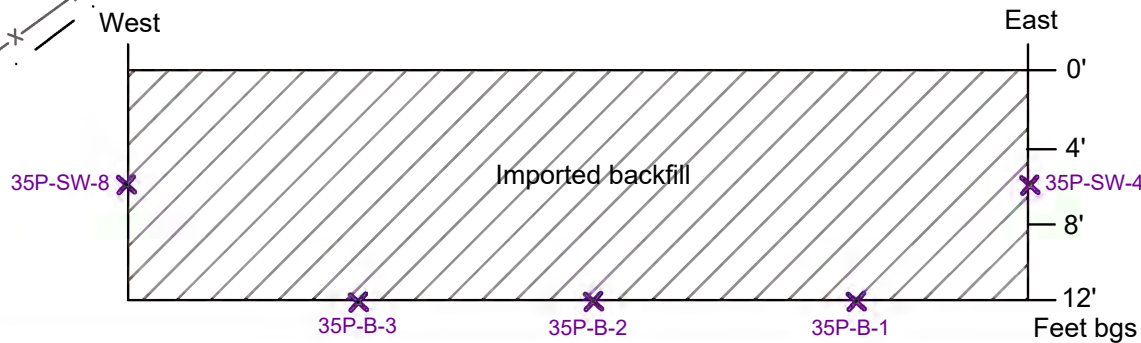
LEGEND

- Property Boundary
- - - Fence
- Excavation Perimeter
- - - Excavation Extension
- SW-# Sidewall Sample Location
- B-# Bottom Sample Location
- SW-# Excavated Sidewall Sample Location
- PCB Polychlorinated Biphenyls
- RCL Residual Contaminant Level
- ND No Detects

Qualifiers:

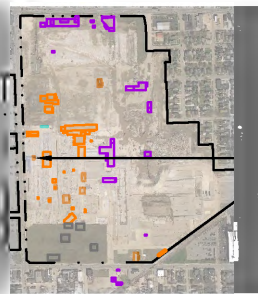
- A Exceeds NR720 Non-industrial direct contact RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit

Typical Cross-Section Looking North



Drawn: ZPA 4/3/2018
 Checked: PL 1/31/2017
 Approved: LLA 1/31/2017
 PROJECT NUMBER: 60523016
 FIGURE NUMBER: 31

C:\Users\lachary.albert\Documents\Projects\K&E\Soil Remediation\CAD\KEP - Stewide Excavations - Results - ZA.dwg; 5/30/2018 2:10:40 PM; ALBERT, ZACHARY, ----



E38T

Excavation E38T

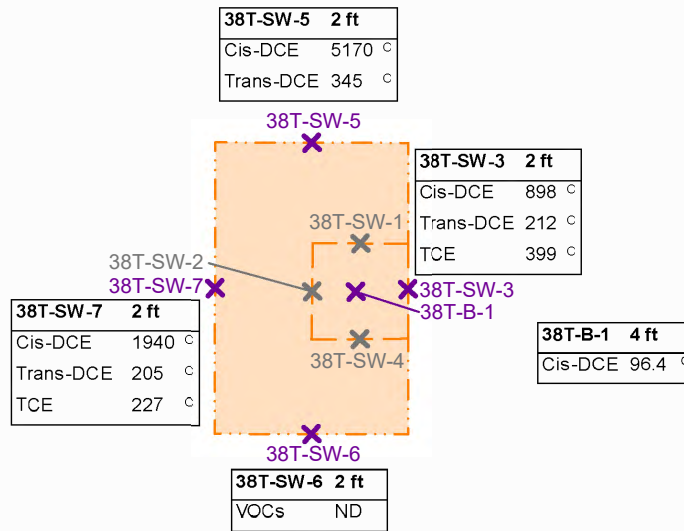
LEGEND

- Excavation Perimeter
- Excavation Extension
- X SW-# Sidewall Sample Location
- X B-# Bottom Sample Location
- X SW-# Excavated Sidewall Sample Location
- VOCs Volatile Organic Compounds
- Cis-DCE Cis-1,2-Dichloroethene
- Trans-DCE Trans-1,2-Dichloroethene
- TCE Trichloroethene
- RCL Residual Contaminant Level
- ND No Detects

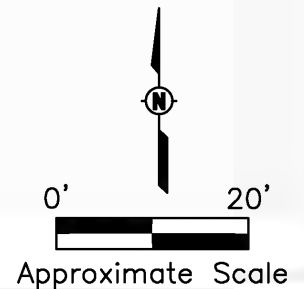
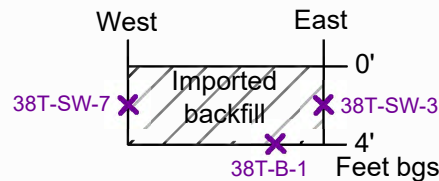
Qualifiers:

- A Exceeds NR720 Non-industrial direct contact RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit

Plan View



Typical Cross-Section Looking North



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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E38T KENOSHA ENGINE PLANT CITY OF KENOSHA KENOSHA, WISCONSIN

Drawn : ZPA 4/3/2018

Checked: PL 1/31/2017

Approved: LLA 1/31/2017

PROJECT NUMBER 60523016

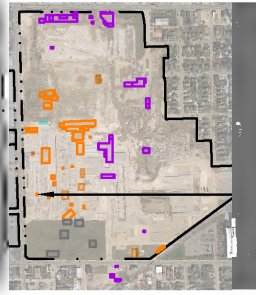
FIGURE NUMBER 32

LEGEND

- Excavation Perimeter
- - - Excavation Extension
- SW-# Sidewall Sample Location
- B-# Bottom Sample Location
- SW-# Excavated Sidewall Sample Location
- VOCs Volatile Organic Compounds
- Cis-DCE Cis-1,2-Dichloroethene
- TCE Trichloroethene
- PCE Tetrachloroethene
- RCL Residual Contaminant Level
- ND No Detects

Qualifiers:

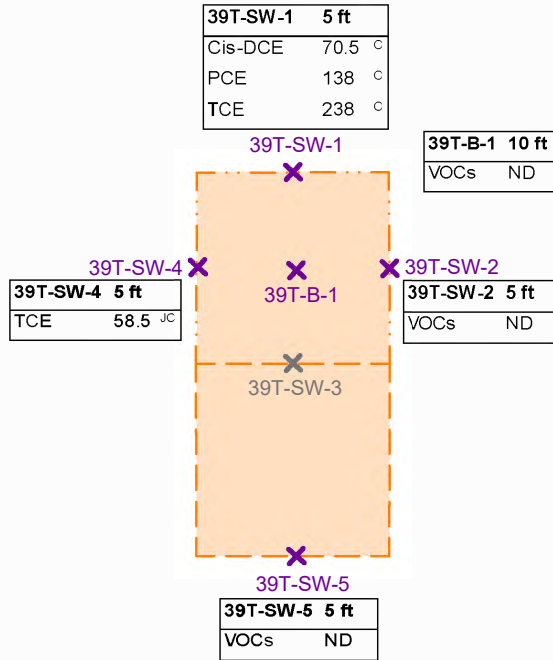
- A Exceeds NR720 Non-industrial direct contact RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit



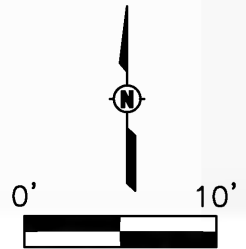
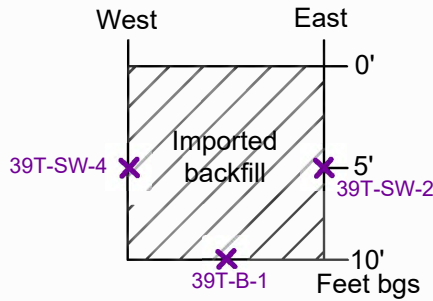
E39T

Excavation E39T

Plan View



Typical Cross-Section Looking North



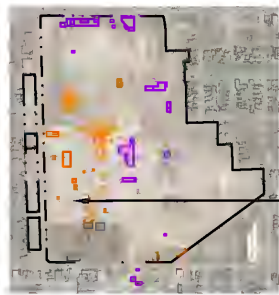
Approximate Scale



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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E39T KENOSHA ENGINE PLANT CITY OF KENOSHA KENOSHA, WISCONSIN

Drawn :	ZPA	4/3/2018
Checked:	PL	1/31/2017
Approved:	LLA	1/31/2017
PROJECT NUMBER	60523016	
FIGURE NUMBER	33	



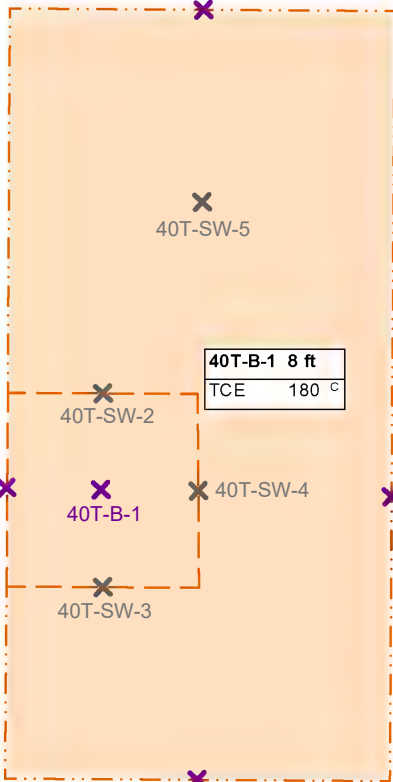
E40T

Excavation E40T

Plan View

40T-SW-8	4 ft
VOCs	ND

40T-SW-8



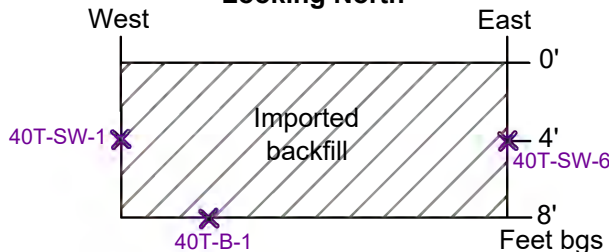
40T-B-1	8 ft
TCE	180 °

40T-SW-1	4 ft
TCE	160 °

40T-SW-6	4 ft
VOCs	ND

40T-SW-7	4 ft
VOCs	ND

Typical Cross-Section Looking North

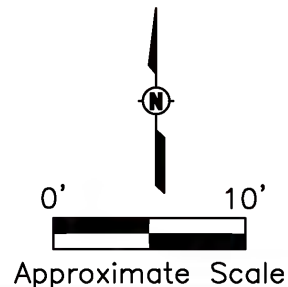


LEGEND

- Excavation Perimeter
- Excavation Extension
- SW-# Sidewall Sample Location
- B-# Bottom Sample Location
- SW-# Excavated Sidewall Sample Location
- VOCs Volatile Organic Compounds
- TCE Trichloroethene
- RCL Residual Contaminant Level
- ND No Detects

Qualifiers:

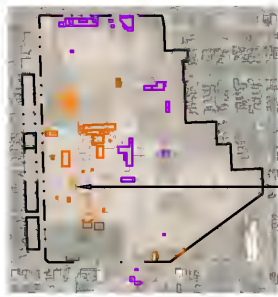
- A Exceeds NR720 Non-industrial direct contact RCL
WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL
WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL
WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit



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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E40T
KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn :	ZPA	4/3/2018
Checked:	PL	1/31/2017
Approved:	LLA	1/31/2017
PROJECT NUMBER	60523016	
FIGURE NUMBER	34	



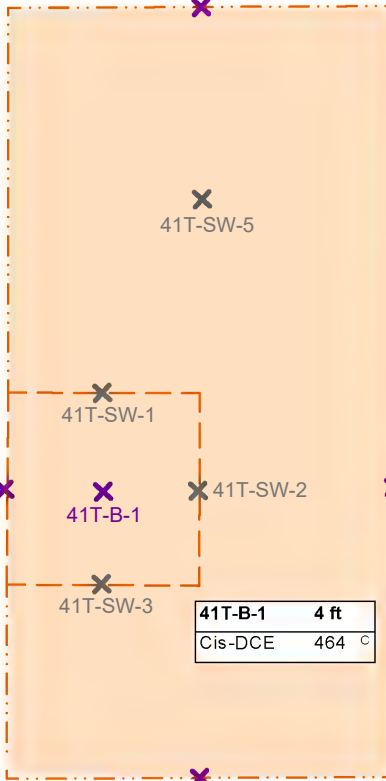
E41T

Excavation E41T

Plan View

41T-SW-8	2 ft
Cis-DCE	86.3 °
TCE	295 °

41T-SW-8



41T-SW-4	2 ft
Cis-DCE	26600 °
Trans-DCE	3910 °
TCE	318 °
VC	203 JAC

41T-SW-4

41T-SW-1

41T-B-1

41T-SW-2

41T-SW-3

41T-SW-6

41T-SW-6	2 ft
Cis-DCE	3470 °
Trans-DCE	477 °

41T-SW-7

41T-SW-7	2 ft
Cis-DCE	352 °
Trans-DCE	204 °
VC	57.0 JAC

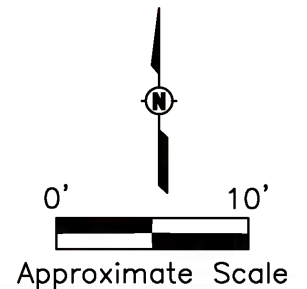
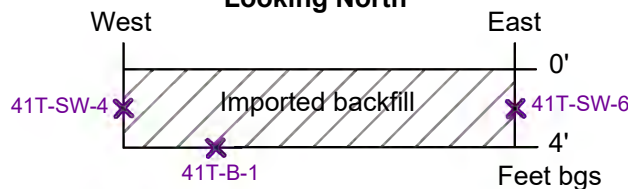
41T-B-1

Cis-DCE 464 °

- LEGEND**
- Excavation Perimeter
 - Excavation Extension
 - SW-# Sidewall Sample Location
 - B-# Bottom Sample Location
 - SW-# Excavated Sidewall Sample Location
 - Cis-DCE Cis-1,2-Dichloroethene
 - Trans-DCE Trans-1,2-Dichloroethene
 - TCE Trichloroethene
 - VC Vinyl Chloride
 - RCL Residual Contaminant Level

- Qualifiers:**
- A Exceeds NR720 Non-industrial direct contact RCL
WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
 - B Exceeds NR720 Industrial direct contact RCL
WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
 - C Exceeds NR720 Groundwater pathway RCL
WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
 - J Concentration is estimated because it was detected below the practical quantitation limit

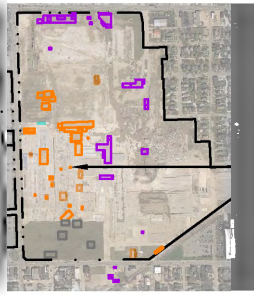
Typical Cross-Section Looking North



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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E41T
KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn :	ZPA 4/3/2018
Checked:	PL 1/31/2017
Approved:	LLA 1/31/2017
PROJECT NUMBER	60523016
FIGURE NUMBER	35



E42M

Excavation E42M

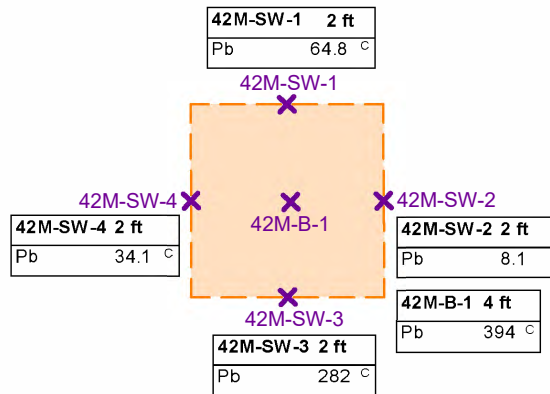
LEGEND

- Excavation Perimeter
- Excavation Extension
- SW-# Sidewall Sample Location
- B-# Bottom Sample Location
- Pb Lead
- RCL Residual Contaminant Level

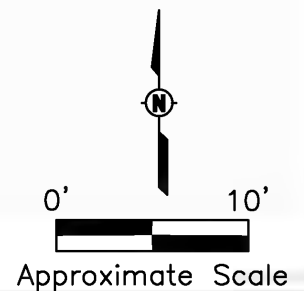
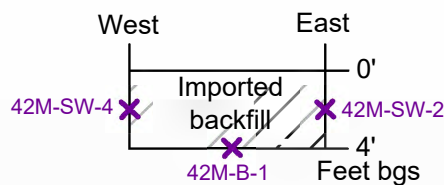
Qualifiers:

- A Exceeds NR720 Non-industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit

Plan View



Typical Cross-Section Looking North



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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E42M
 KENOSHA ENGINE PLANT
 CITY OF KENOSHA
 KENOSHA, WISCONSIN

Drawn : ZPA 4/3/2018

Checked: PL 1/31/2017

Approved: LLA 1/31/2017

PROJECT NUMBER 60523016

FIGURE NUMBER 36

C:\Users\l.zachary\Documents\Projects\K&E\Soil Remediation\CAD\KEP - Stewide Excavations - Results -ZA.dwg; 5/30/2018 2:11:07 PM; ALBERT, ZACHARY, -



Excavation E43T

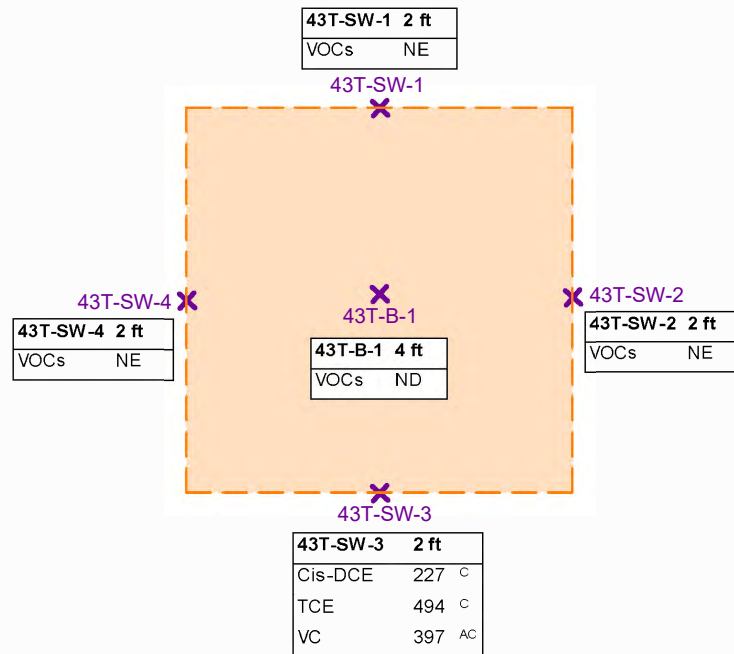
LEGEND

- Excavation Perimeter
- Excavation Extension
- SW-# Sidewall Sample Location
- B-# Bottom Sample Location
- VOCs Volatile Organic Compounds
- Cis-DCE Cis-1,2-Dichloroethene
- TCE Trichloroethene
- VC Vinyl Chloride
- ND No Detects
- NE No Exceedances

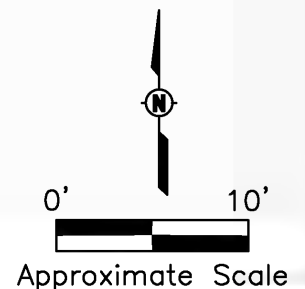
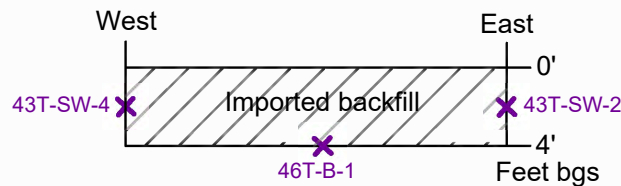
Qualifiers:

- A Exceeds NR720 Non-industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit

Plan View



Typical Cross-Section Looking North



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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E43T
KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

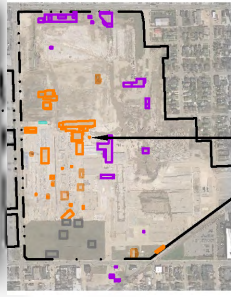
Drawn : ZPA 4/3/2018

Checked: PL 1/31/2017

Approved: LLA 1/31/2017

PROJECT NUMBER 60523016

FIGURE NUMBER 37



E44T

Excavation E44T

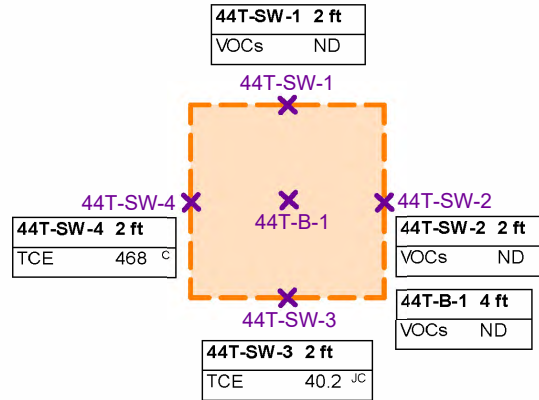
LEGEND

- Excavation Perimeter
- Excavation Extension
- SW-# Sidewall Sample Location
- B-# Bottom Sample Location
- VOCs Volatile Organic Compounds
- TCE Trichloroethene
- ND No Detects

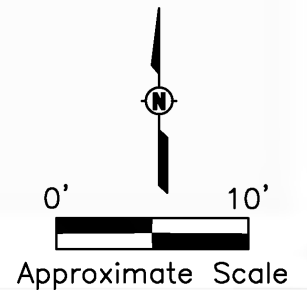
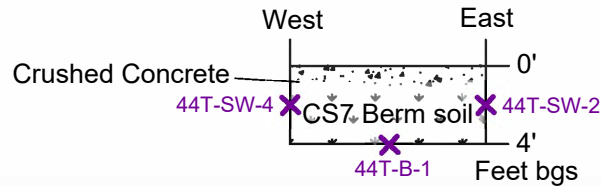
Qualifiers:

- A Exceeds NR720 Non-industrial direct contact RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit

Plan View



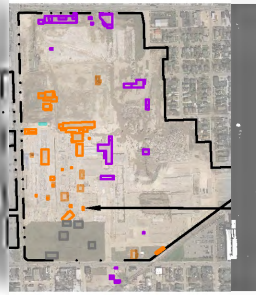
Typical Cross-Section Looking North



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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E44T KENOSHA ENGINE PLANT CITY OF KENOSHA KENOSHA, WISCONSIN

Drawn :	ZPA 4/3/2018
Checked:	PL 1/31/2017
Approved:	LLA 1/31/2017
PROJECT NUMBER	60523016
FIGURE NUMBER	38



E45T

Excavation E45T

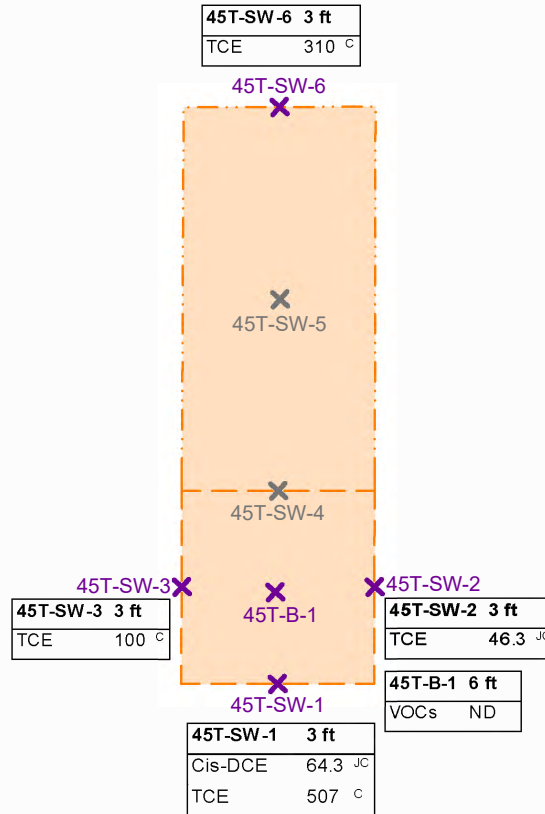
LEGEND

- Excavation Perimeter
- Excavation Extension
- SW-# Sidewall Sample Location
- B-# Bottom Sample Location
- SW-# Excavated Sidewall Sample Location
- VOCs Volatile Organic Compounds
- Cis-DCE Cis-1,2-Dichloroethene
- TCE Trichloroethene
- RCL Residual Contaminant Level
- ND No Detects

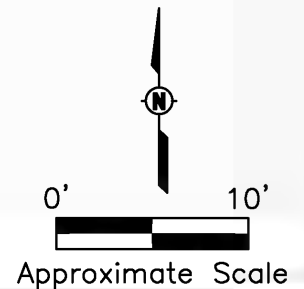
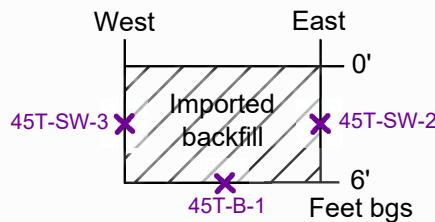
Qualifiers:

- A Exceeds NR720 Non-industrial direct contact RCL
WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL
WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL
WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit

Plan View



Typical Cross-Section Looking North



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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E45T KENOSHA ENGINE PLANT CITY OF KENOSHA KENOSHA, WISCONSIN

Drawn :	ZPA 4/3/2018
Checked:	PL 1/31/2017
Approved:	LLA 1/31/2017
PROJECT NUMBER	60523016
FIGURE NUMBER	39

C:\Users\lachary.albert\Documents\Projects\KEP - Stewie Remediation\CAD\KEP - Results -ZA.dwg; 5/30/2018 2:15:16 PM; ALBERT, ZACHARY, ----



E46T

Excavation E46T

LEGEND

- Excavation Perimeter
- Excavation Extension
- SW-# Sidewall Sample Location
- B-# Bottom Sample Location
- TCE Trichloroethene
- RCL Residual Contaminant Level

Qualifiers:

- A Exceeds NR720 Non-industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL WDNr RCL Calculator worksheet updated March 2017, per WDNr PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit

Plan View

46T-SW-2	6 ft
TCE	28.2 ^{JC}

46T-SW-2

Excavation E46T

46T-SW-1 X

46T-SW-1	6 ft
TCE	241 ^C

46T-B-1 X

46T-B-1	12 ft
TCE	64 ^{JC}

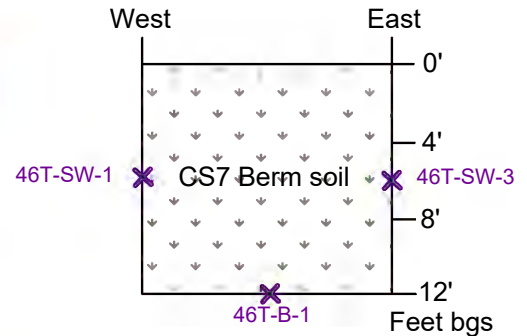
46T-SW-3 X

46T-SW-3	6 ft
TCE	187 ^C

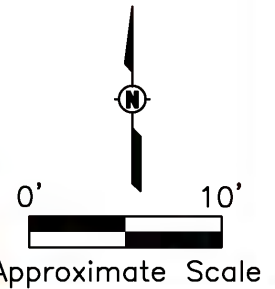
46T-SW-4 X

46T-SW-4	6 ft
TCE	359 ^C

Typical Cross-Section Looking North



Excavation E7T



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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E46T KENOSHA ENGINE PLANT CITY OF KENOSHA KENOSHA, WISCONSIN

Drawn :	ZPA	4/3/2018
Checked:	PL	1/31/2017
Approved:	LLA	1/31/2017
PROJECT NUMBER	60523016	
FIGURE NUMBER	40	

LEGEND

- Excavation Perimeter
- Excavation Extension
- B-#** Bottom Sample Location
- PCB Polychlorinated Biphenyls
- ND No Detects

Qualifiers:

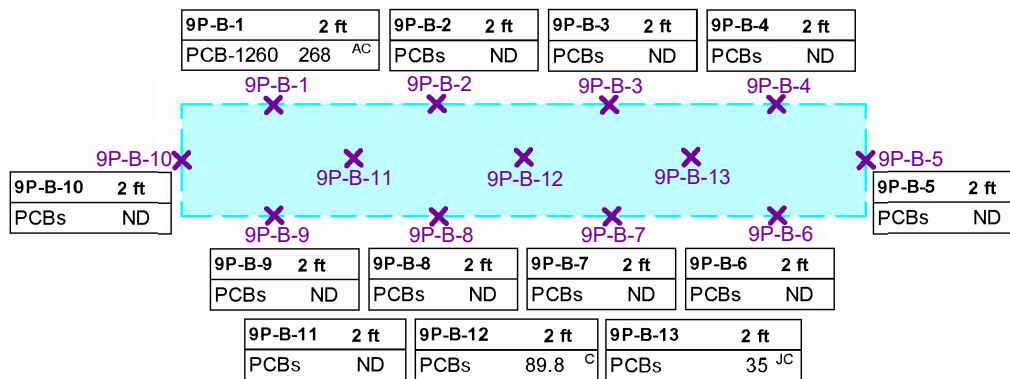
- A Exceeds NR720 Non-industrial direct contact RCL
WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- B Exceeds NR720 Industrial direct contact RCL
WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- C Exceeds NR720 Groundwater pathway RCL
WDNR RCL Calculator worksheet updated March 2017, per WDNR PUB-RR-890
- J Concentration is estimated because it was detected below the practical quantitation limit



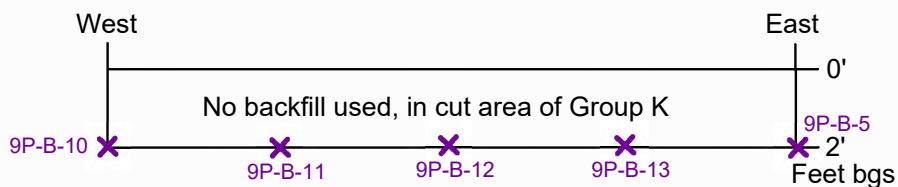
E9P

Excavation E9P

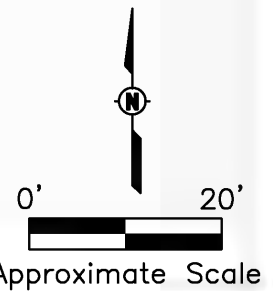
Plan View



Typical Cross-Section Looking North



Excavation E16T



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VERIFICATION SAMPLE RESULTS FOR EXCAVATION E9P
KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn :	ZPA	4/3/2018
Checked:	PL	1/31/2017
Approved:	LLA	1/31/2017
PROJECT NUMBER	60523016	
FIGURE NUMBER	41	



LEGEND

- 18" ~~~~~ 002 SANITARY OUTFALL 024
- 15" ~~~~~ 200
- 12" ~~~~~ 024
- CB C-02
- CB C-03

APPROXIMATE SITE BOUNDARY

EXISTING FENCE

STORMWATER SEWER

ASSUMED FLOW DIRECTION WITHIN SEWERS

OVERHEAD ELECTRIC LINE (TRANSMISSION LINE)

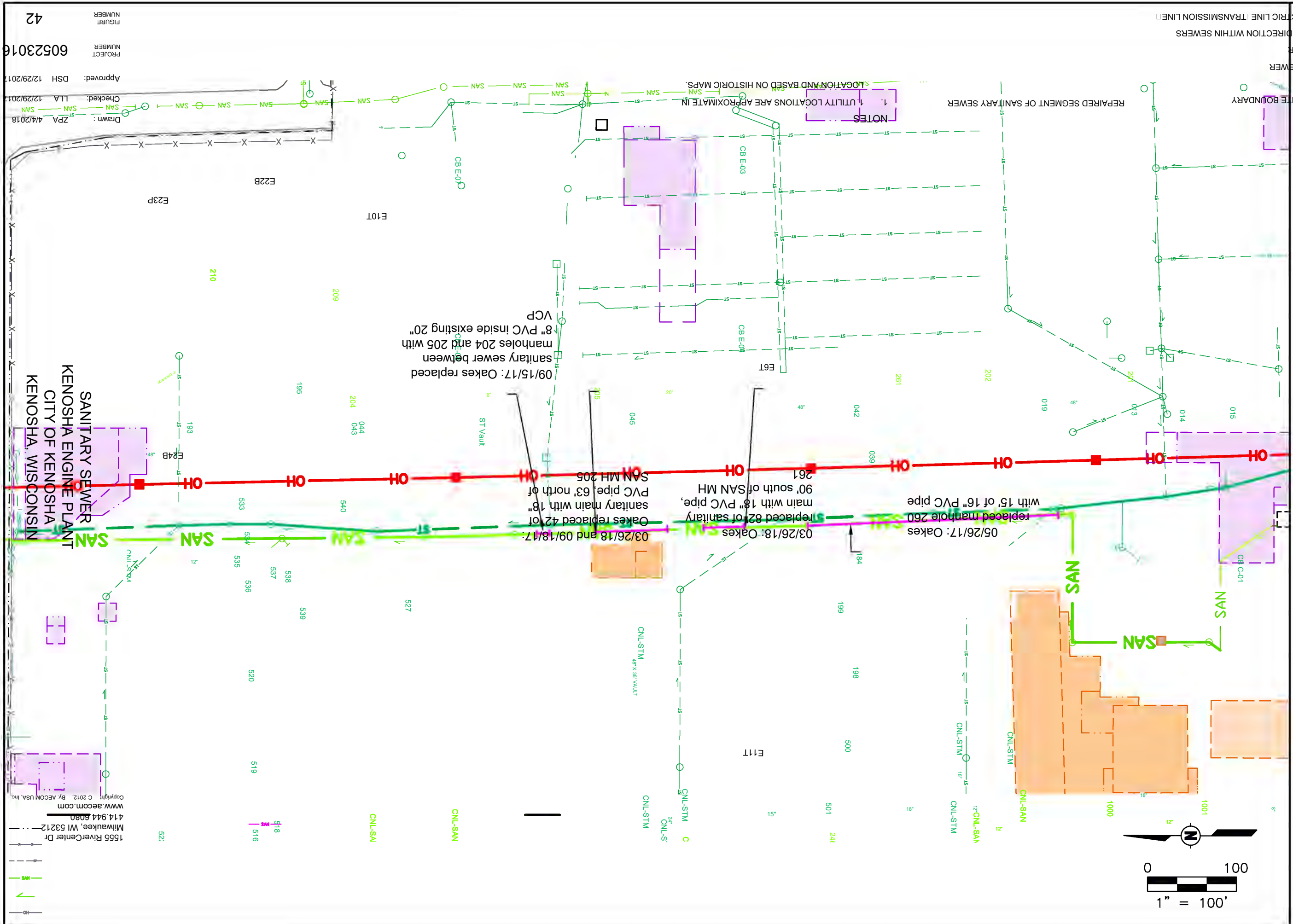
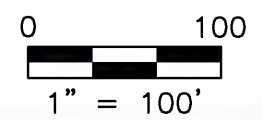


Table 4A
Group A Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E1L	E2T									
	Direct Contact Pathway		Groundwater Pathway	1L-B-1	2T-B-1	2T-B-2	2T-B-3	2T-B-4	2T-B-5	2T-B-6	2T-B-7	2T-B-8	2T-B-9	2T-B-10
	Non-Industrial	Industrial		0 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft
			11/18/2016	12/1/2016	12/1/2016	12/1/2016	12/1/2016	12/1/2016	12/1/2016	12/1/2016	12/2/2016	12/2/2016	12/2/2016	
VOCs (µg/kg)						Excavated 12-7-16				Excavated 12-7-16			Excavated 12-7-16	
1,1,1-Trichloroethane	640,000	640,000	140.2	<26.9	310^C	1,230^C	<25	75.7	1,780^C	979^C	<26	<25.3	538^C	<25
1,1-Dichloroethane	5,060	22,200	483.40	86.4	<25	<25.8	<25	<25.3	567^C	175	<26	<25.3	50.4 ^J	<25
1,1-Dichloroethene	320,000	1,190,000	5	<26.9	<25	<25.8	<25	<25.3	<25	<25.8	<26	<25.3	<25	<25
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<26.9	<25	<25.8	<25	<25.3	<25	<25.8	<26	<25.3	<25	<25
1,2-Dichloroethane	652	2,870	2.8	<26.9	<25	<25.8	<25	<25.3	<25	<25.8	<26	<25.3	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<26.9	<25	<25.8	<25	<25.3	<25	<25.8	<26	<25.3	<25	<25
Benzene	1,600	7,070	5.1	<26.9	<25	<25.8	<25	<25.3	<25	<25.8	<26	<25.3	<25	<25
Chloroform	454	1,980	3.3	<49.9	<46.4	<47.9	<46.4	<46.9	<46.4	<47.9	<48.4	<46.9	<46.4	<46.4
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<26.9	<25	<25.8	<25	<25.3	<25	122^C	<26	<25.3	<25	<25
Ethylbenzene	8,020	35,400	1570	<26.9	<25	<25.8	<25	<25.3	<25	<25.8	<26	<25.3	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<26.9	<25	<25.8	<25	<25.3	<25	<25.8	<26	<25.3	<25	<25
Methylene Chloride	61,800	1,150,000	2.6	<26.9	<25	<25.8	<25	<25.3	199^C	306^C	<26	<25.3	<25	<25
n-Butylbenzene	108,000	108,000	--	<26.9	<25	<25.8	<25	<25.3	<25	<25.8	<26	<25.3	<25	<25
n-Propylbenzene	264,000	264,000	--	<26.9	<25	<25.8	<25	<25.3	<25	<25.8	<26	<25.3	<25	<25
Naphthalene	5,520	24,100	658	55.4^J	<40	<41.3	<40	<40.4	<40	<41.3	<41.7	<40.4	<40	<40
p-Isopropyltoluene	162,000	162,000	--	<26.9	<25	<25.8	<25	<25.3	<25	<25.8	<26	<25.3	<25	<25
sec-Butylbenzene	145,000	145,000	--	<26.9	<25	<25.8	<25	<25.3	<25	<25.8	<26	<25.3	<25	<25
Styrene	867,000	867,000	220	<26.9	<25	<25.8	<25	<25.3	<25	<25.8	<26	<25.3	<25	<25
tert-Butylbenzene	183,000	183,000	--	<26.9	<25	<25.8	<25	<25.3	<25	<25.8	<26	<25.3	<25	<25
Tetrachloroethene	33,000	145,000	4.5	<26.9	<25	<25.8	<25	<25.3	82.4^C	6,010^C	<26	<25.3	3,070^C	<25
Toluene	818,000	818,000	1,107	<26.9	<25	<25.8	<25	<25.3	<25	<25.8	<26	<25.3	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<26.9	<25	<25.8	<25	<25.3	<25	<25.8	<26	<25.3	<25	<25
Trichloroethene	1,300	8,410	3.6	<26.9	<25	2,140^{AC}	<25	329^{JC}	644^C	1,420^{AC}	55.1^{JC}	50.2^{JC}	1,510^{AC}	<25
Vinyl chloride	67	2,080	0	<26.9	<25	<25.8	<25	<25.3	<25	<25.8	<26	<25.3	<25	<25
Xylene (Total)	260,000	260,000	3,960	<80.6	<75	<77.3	<75	<75.8	<75	<77.3	<78.1	<75.8	<75	<75

VOCs = Volatile Organic Compounds ^J = Estimated value.

ug/kg = Micrograms per kilogram -- = No generic RCL established.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Samples collected & analyzed for VOCs are included on this table. Where excavations were extended and the area of a sample result was removed, it is shown in half-tone and labeled with the excavation date.

Table 4A
Group A Excavations
Detected VOCS in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E2T										
	Direct Contact Pathway		Groundwater Pathway	2T-B-11	2T-B-12	2T-B-13	2T-B-14	2T-B-15	2T-B-16	2T-B-17	2T-B-18	2T-SW-1	2T-SW-2	2T-SW-3
	Non-Industrial	Industrial		5 ft 12/7/2016	5 ft 12/7/2016	5 ft 12/8/2016	10 ft 4/21/2017	10 ft 4/21/2017	10 ft 4/21/2017	10 ft 4/21/2017	10 ft 4/21/2017	3 ft 12/1/2016	3 ft 12/1/2016	3 ft 12/1/2016
VOCs (µg/kg)					Excavated 04-21-17	Excavated 04-21-17								
1,1,1-Trichloroethane	640,000	640,000	140.2	110	<100	53.3 ^J	<25.0	<25.0	<25.0	<200	<25.0	480^C	83	330^C
1,1-Dichloroethane	5,060	22,200	483.40	<26	<100	<25	<25.0	<25.0	<25.0	<200	<25.0	<25	<27.5	<28.1
1,1-Dichloroethene	320,000	1,190,000	5	<26	<100	<25	<25.0	<25.0	<25.0	<200	<25.0	<25	<27.5	<28.1
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<26	<100	<25	<25.0	<25.0	<25.0	<200	<25.0	<25	<27.5	<28.1
1,2-Dichloroethane	652	2,870	2.8	<26	<100	<25	<25.0	<25.0	<25.0	<200	<25.0	<25	<27.5	<28.1
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<26	<100	<25	<25.0	<25.0	<25.0	<200	<25.0	<25	<27.5	<28.1
Benzene	1,600	7,070	5.1	<26	<100	<25	<25.0	<25.0	<25.0	<200	<25.0	<25	<27.5	<28.1
Chloroform	454	1,980	3.3	<48.4	<186	<46.4	<46.4	<46.4	<46.4	<372	<46.4	<46.4	<51	<52.2
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<26	186^{JC}	148^C	<25.0	1720^C	163^C	455^{JC}	<25.0	<25	<27.5	<28.1
Ethylbenzene	8,020	35,400	1570	<26	<100	<25	<25.0	<25.0	<25.0	<200	<25.0	<25	<27.5	<28.1
Isopropylbenzene (Cumene)	268,000	268,000	--	<26	<100	<25	<25.0	<25.0	<25.0	<200	<25.0	<25	<27.5	<28.1
Methylene Chloride	61,800	1,150,000	2.6	<26	<100	<25	<25.0	<25.0	<25.0	<200	<25.0	<25	<27.5	<28.1
n-Butylbenzene	108,000	108,000	--	<26	<100	<25	<25.0	<25.0	<25.0	<200	<25.0	<25	<27.5	<28.1
n-Propylbenzene	264,000	264,000	--	<26	<100	<25	<25.0	<25.0	<25.0	<200	<25.0	<25	<27.5	<28.1
Naphthalene	5,520	24,100	658	<41.7	<160	53.3 ^J	<40.0	<40.0	<40.0	<320	<40.0	<40	<44	<45
p-Isopropyltoluene	162,000	162,000	--	<26	<100	<25	<25.0	<25.0	<25.0	<200	<25.0	<25	<27.5	<28.1
sec-Butylbenzene	145,000	145,000	--	<26	<100	<25	<25.0	<25.0	<25.0	<200	<25.0	<25	<27.5	<28.1
Styrene	867,000	867,000	220	<26	<100	<25	<25.0	<25.0	<25.0	<200	<25.0	<25	<27.5	<28.1
tert-Butylbenzene	183,000	183,000	--	<26	<100	<25	<25.0	<25.0	<25.0	<200	<25.0	<25	<27.5	<28.1
Tetrachloroethene	33,000	145,000	4.5	433^C	<100	330^C	<25.0	<25.0	<25.0	<200	<25.0	<25	<27.5	<28.1
Toluene	818,000	818,000	1,107	<26	<100	<25	<25.0	<25.0	<25.0	<200	<25.0	<25	<27.5	<28.1
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<26	<100	<25	<25.0	159^C	<25.0	<200	<25.0	<25	<27.5	<28.1
Trichloroethene	1,300	8,410	3.6	107^C	12,700^{ABC}	1,760^{AC}	<25.0	1,760^{AC}	<25.0	43,700^{ABC}	154^C	66.1^{JC}	<27.5	301^C
Vinyl chloride	67	2,080	0	<26	<100	<25	68.5^{JAC}	<25.0	<25.0	<200	<25.0	<25	<27.5	<28.1
Xylene (Total)	260,000	260,000	3,960	<78.1	< 300	<75	<75.0	<75.0	<75.0	<600	<75.0	<75	<82.4	<84.3

VOCs = Volatile Organic Compounds ^J = Estimated value.

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^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Samples collected & analyzed for VOCs are included on this table. Where excavations were extended and the area of a sample result was removed, it is shown in half-tone and labeled with the excavation date.

Table 4A
Group A Excavations
Detected VOCS in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E2T											
	Direct Contact Pathway		Groundwater Pathway	2T-SW-4	2T-SW-5	2T-SW-6	2T-SW-7	2T-SW-8	2T-SW-9	2T-SW-10	2T-SW-11	2T-SW-12	2T-SW-13	2T-SW-14	
	Non-Industrial	Industrial		3 ft 12/1/2016	3 ft 12/1/2016	3 ft 12/1/2016	3 ft 12/1/2016	3 ft 12/1/2016	3 ft 12/2/2016	3 ft 12/2/2016	3 ft 12/2/2016	3 ft 12/2/2016	3 ft 12/2/2016	3 ft 12/7/2016	3 ft 12/7/2016
VOCs (µg/kg)															
1,1,1-Trichloroethane	640,000	640,000	140.2	532^C	<25	<25	969^C	108	<26	<26.9	<25	<25.8	<27.8	<25	
1,1-Dichloroethane	5,060	22,200	483.40	<29.1	<25	<25	455	<26.6	<26	<26.9	<25	<25.8	<27.8	<25	
1,1-Dichloroethene	320,000	1,190,000	5	<29.1	<25	<25	<28.1	<26.6	<26	<26.9	<25	<25.8	<27.8	<25	
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<29.1	<25	<25	<28.1	<26.6	<26	<26.9	<25	<25.8	<27.8	<25	
1,2-Dichloroethane	652	2,870	2.8	<29.1	<25	<25	<28.1	<26.6	<26	<26.9	<25	<25.8	<27.8	<25	
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<29.1	<25	<25	<28.1	<26.6	<26	<26.9	<25	<25.8	<27.8	<25	
Benzene	1,600	7,070	5.1	<29.1	<25	<25	<28.1	<26.6	<26	<26.9	<25	<25.8	<27.8	<25	
Chloroform	454	1,980	3.3	<54	<46.4	<46.4	<52.2	<49.4	<48.4	<49.9	<46.4	<47.9	<51.6	<46.4	
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<29.1	<25	<25	<28.1	<26.6	<26	<26.9	<25	<25.8	<27.8	<25	
Ethylbenzene	8,020	35,400	1570	<29.1	<25	<25	<28.1	<26.6	<26	<26.9	<25	<25.8	<27.8	<25	
Isopropylbenzene (Cumene)	268,000	268,000	--	<29.1	<25	<25	<28.1	<26.6	<26	<26.9	<25	<25.8	<27.8	<25	
Methylene Chloride	61,800	1,150,000	2.6	<29.1	<25	146^C	240^C	288^C	175^C	<26.9	<25	<25.8	<27.8	<25	
n-Butylbenzene	108,000	108,000	--	<29.1	<25	<25	<28.1	<26.6	<26	<26.9	<25	<25.8	<27.8	<25	
n-Propylbenzene	264,000	264,000	--	<29.1	<25	<25	<28.1	<26.6	<26	<26.9	<25	<25.8	<27.8	<25	
Naphthalene	5,520	24,100	658	<46.6	<40	<40	<45	<42.6	<41.7	<43.1	<40	<41.3	<44.5	<40	
p-Isopropyltoluene	162,000	162,000	--	<29.1	<25	<25	<28.1	<26.6	<26	<26.9	<25	<25.8	<27.8	<25	
sec-Butylbenzene	145,000	145,000	--	<29.1	<25	<25	<28.1	<26.6	<26	<26.9	<25	<25.8	<27.8	<25	
Styrene	867,000	867,000	220	<29.1	<25	<25	<28.1	<26.6	<26	<26.9	<25	<25.8	<27.8	<25	
tert-Butylbenzene	183,000	183,000	--	<29.1	<25	<25	<28.1	<26.6	<26	<26.9	<25	<25.8	<27.8	<25	
Tetrachloroethene	33,000	145,000	4.5	<29.1	<25	<25	131^C	1,980^C	<26	<26.9	85.7^C	<25.8	<27.8	<25	
Toluene	818,000	818,000	1,107	<29.1	<25	<25	<28.1	<26.6	<26	<26.9	<25	<25.8	<27.8	<25	
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<29.1	<25	<25	<28.1	<26.6	<26	<26.9	<25	<25.8	<27.8	<25	
Trichloroethene	1,300	8,410	3.6	60^{JC}	<25	<25	405^C	81.2^C	<26	<26.9	<25	<25.8	<27.8	34.5^{JC}	
Vinyl chloride	67	2,080	0	<29.1	<25	<25	<28.1	<26.6	<26	<26.9	<25	<25.8	<27.8	<25	
Xylene (Total)	260,000	260,000	3,960	<87.2	<75	<75	<84.3	<79.8	<78.1	<80.6	<75	<77.3	<83.3	<75	

VOCs = Volatile Organic Compounds ^J = Estimated value.

ug/kg = Micrograms per kilogram -- = No generic RCL established.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Samples collected & analyzed for VOCs are included on this table. Where excavations were extended and the area of a sample result was removed, it is shown in half-tone and labeled with the excavation date.

Table 4A
Group A Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E2T				E3L	E4L					
	Direct Contact Pathway		Groundwater Pathway	2T-SW-15	2T-SW-16	2T-SW-17	2T-SW-18	3L-B-1	4L-B-1	4L-B-2	4L-B-3	4L-B-4	4L-B-5	4L-B-6
	Non-Industrial	Industrial		3 ft 12/7/2016	3 ft 12/8/2016	3 ft 12/8/2016	3 ft 12/8/2016	0 ft 11/17/2016	12 ft 10/14/2016	12 ft 10/17/2016	12 ft 10/17/2016	12 ft 10/17/2016	12 ft 10/17/2016	12 ft 10/18/2016
VOCs (µg/kg)														
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	58.7 ^J	35.9 ^J	<25	<91.9	<73.5	<62.5	<1100	<112	<61.7
1,1-Dichloroethane	5,060	22,200	483.40	<25	<25	38.2 ^J	<25	<25	<91.9	<73.5	<62.5	<1100	<112	<61.7
1,1-Dichloroethene	320,000	1,190,000	5	<25	<25	<25.5	<25	<25	<91.9	<73.5	<62.5	<1100	<112	<61.7
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<25	<25	<25.5	<25	<25	117 ^J	<73.5	1,790 ^C	323,000 ^{ABC}	1,770 ^C	3,680 ^C
1,2-Dichloroethane	652	2,870	2.8	<25	<25	<25.5	<25	<25	<91.9	<73.5	<62.5	<1100	<112	<61.7
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<25	<25	<25.5	<25	<25	<91.9	<73.5	409	100,000 ^C	473	1,020
Benzene	1,600	7,070	5.1	<25	<25	<25.5	<25	<25	4,050 ^{AC}	1,970 ^{AC}	799 ^C	<1100	4,160 ^{AC}	4,030 ^{AC}
Chloroform	454	1,980	3.3	<46.4	<46.4	<47.4	<46.4	<46.4	<171	<137	<116	<2040	<209	<115
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<25	<25	<25.5	<25	<25	<91.9	<73.5	<62.5	<1100	<112	<61.7
Ethylbenzene	8,020	35,400	1570	<25	<25	<25.5	390	<25	9,500 ^{AC}	13,900 ^{AC}	10,000 ^{AC}	6,300 ^C	7,600 ^C	5,170 ^C
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25.5	<25	<25	<91.9	<73.5	183	21,300	<112	274
Methylene Chloride	61,800	1,150,000	2.6	<25	<25	<25.5	<25	<25	<91.9	<73.5	<62.5	<1100	<112	<61.7
n-Butylbenzene	108,000	108,000	--	<25	<25	<25.5	<25	<25	<91.9	<73.5	<62.5	30,000	184 ^J	238
n-Propylbenzene	264,000	264,000	--	<25	<25	<25.5	<25	<25	<91.9	<73.5	293	73,800	373	753
Naphthalene	5,520	24,100	658	274	<40	<40.9	47.1 ^J	102 ^{JC}	<147	<118	340 ^J	2,180 ^{JC}	219 ^J	704 ^C
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25.5	<25	<25	<91.9	<73.5	<62.5	3,430	<112	<61.7
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25.5	<25	<25	<91.9	<73.5	<62.5	6,410	<112	<61.7
Styrene	867,000	867,000	220	<25	<25	<25.5	<25	<25	<91.9	<73.5	<62.5	<1100	<112	<61.7
tert-Butylbenzene	183,000	183,000	--	<25	<25	<25.5	<25	<25	<91.9	<73.5	<62.5	2,160 ^{JC}	<112	<61.7
Tetrachloroethene	33,000	145,000	4.5	<25	123 ^C	146 ^C	169 ^C	<25	<91.9	<73.5	<62.5	<1100	<112	<61.7
Toluene	818,000	818,000	1,107	<25	<25	<25.5	<25	<25	18,500 ^C	5,940 ^C	13,700 ^C	4,440 ^C	21,200 ^C	12,000 ^C
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<25	<25	<25.5	<25	<25	<91.9	<73.5	<62.5	<1100	<112	<61.7
Trichloroethene	1,300	8,410	3.6	<25	52.6 ^{JC}	63 ^{JC}	84.6 ^C	30.7 ^{JC}	<91.9	<73.5	<62.5	<1100	<112	<61.7
Vinyl chloride	67	2,080	0	<25	<25	<25.5	<25	<25	<91.9	<73.5	<62.5	<1100	<112	<61.7
Xylene (Total)	260,000	260,000	3,960	<75	<75	<76.5	2950	<75	19,800 ^C	35,300 ^C	27,700 ^C	11,600 ^C	20,900 ^C	15,600 ^C

VOCs = Volatile Organic Compounds ^J = Estimated value.

ug/kg = Micrograms per kilogram -- = No generic RCL established.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Samples collected & analyzed for VOCs are included on this table. Where excavations were extended and the area of a sample result was removed, it is shown in half-tone and labeled with the excavation date.

Table 4A
Group A Excavations
Detected VOCS in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E4L										
	Direct Contact Pathway		Groundwater Pathway	4L-B-7	4L-B-8	4L-B-9	4L-B-10	4L-B-11	4L-SW-1	4L-SW-2	4L-SW-3	4L-SW-4	4L-SW-5	4L-SW-6
	Non-Industrial	Industrial		12 ft	12 ft	12 ft	12 ft	12 ft	6 ft	12 ft	6 ft	6 ft	6 ft	6 ft
			10/18/2016	10/19/2016	11/21/2016	11/21/2016	11/21/2016	10/17/2016	10/17/2016	10/17/2016	10/18/2016	10/18/2016	10/19/2016	
VOCs (µg/kg)														Excavated 11-21-16
1,1,1-Trichloroethane	640,000	640,000	140.2	<100	<2440	<50	<100	<1870	<82.2	<68.7	<26.9	<25	<26	<1100
1,1-Dichloroethane	5,060	22,200	483.40	<100	<2440	<50	<100	<1870	<82.2	<68.7	<26.9	<25	<26	<1100
1,1-Dichloroethene	320,000	1,190,000	5	<100	<2440	<50	<100	<1870	<82.2	<68.7	<26.9	<25	<26	<1100
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<100	244,000 ^{ABC}	<50	163 J	314,000 ^{ABC}	20,900 ^C	4,270 ^C	685	<25	64.1 J	85,500 ^C
1,2-Dichloroethane	652	2,870	2.8	<100	3,910 ^{JABC}	<50	<100	<1870	<82.2	<68.7	<26.9	<25	<26	<1100
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<100	77,800 ^C	<50	<100	100,000 ^C	6,300 ^C	1120	210	<25	43.1 J	28,300 ^C
Benzene	1,600	7,070	5.1	3,530 ^{AC}	141,000 ^{ABC}	80.6 ^{JC}	827 ^C	208,000 ^{ABC}	160 ^{JC}	2,240 ^{AC}	72.3 ^{JC}	<25	<26	16,300 ^{ABC}
Chloroform	454	1,980	3.3	<186	<4530	<92.9	<186	<3470	<153	<128	<49.9	<46.4	<48.4	<2040
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<100	<2440	<50	<100	<1870	<82.2	<68.7	<26.9	<25	<26	<1100
Ethylbenzene	8,020	35,400	1570	<100	220,000 ^{ABC}	11,200 ^{AC}	3,120 ^C	245,000 ^{ABC}	16,700 ^{AC}	15,000 ^{AC}	11,000 ^{AC}	<25	191	89,400 ^{ABC}
Isopropylbenzene (Cumene)	268,000	268,000	--	<100	17,800	<50	<100	21100	1,360	424	105	<25	627	6,620
Methylene Chloride	61,800	1,150,000	2.6	<100	<2440	<50	<100	<1870	<82.2	<68.7	<26.9	<25	<26	<1100
n-Butylbenzene	108,000	108,000	--	<100	25,800	<50	<100	<1870	2,050	125 J	75.9	<25	1,450	8,730
n-Propylbenzene	264,000	264,000	--	<100	59,300	<50	<100	76700	4,580	960	200	<25	2,350	20,700
Naphthalene	5,520	24,100	658	<160	27,100 ^{JABC}	<80.1	<160	40200 ^{ABC}	4,140 ^C	509 J	135 J	<40	2,160 ^C	10,500 ^{JAC}
p-Isopropyltoluene	162,000	162,000	--	<100	3,010 J	<50	<100	10500	238	<68.7	<26.9	<25	188	1,330 J
sec-Butylbenzene	145,000	145,000	--	<100	5,740 J	<50	<100	<1870	403	<68.7	<26.9	<25	432	2,010 J
Styrene	867,000	867,000	220	<100	<2440	<50	<100	<1870	<82.2	<68.7	<26.9	<25	<26	<1100
tert-Butylbenzene	183,000	183,000	--	<100	<2440	<50	<100	<1870	<82.2	<68.7	<26.9	<25	255	1,700 J
Tetrachloroethene	33,000	145,000	4.5	<100	<2440	<50	<100	<1870	<82.2	<68.7	<26.9	<25	<26	<1100
Toluene	818,000	818,000	1,107	27,700 ^C	444,000 ^C	2,660 ^C	19,200 ^C	464,000 ^C	1,200 ^C	5,620 ^C	184	<25	<26	164,000 ^C
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<100	<2440	<50	<100	<1870	<82.2	<68.7	<26.9	<25	<26	<1100
Trichloroethene	1,300	8,410	3.6	<100	<2440	<50	<100	<1870	<82.2	<68.7	<26.9	<25	<26	<1100
Vinyl chloride	67	2,080	0	<100	<2440	<50	<100	<1870	<82.2	<68.7	<26.9	<25	<26	<1100
Xylene (Total)	260,000	260,000	3,960	<300	628,000 ^{ABC}	26,700 ^C	5,780 ^C	678,000 ^{ABC}	28,000 ^C	37,600 ^C	20,700 ^C	<75	126 J	253,000 ^C

VOCs = Volatile Organic Compounds J = Estimated value.

ug/kg = Micrograms per kilogram -- = No generic RCL established.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Samples collected & analyzed for VOCs are included on this table. Where excavations were extended and the area of a sample result was removed, it is shown in half-tone and labeled with the excavation date.

Table 4A
Group A Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E4L										E5L
	Direct Contact Pathway		Groundwater Pathway	4L-SW-7	4L-SW-8	4L-SW-9	4L-SW-10	4L-SW-11	4L-SW-12	4L-SW-13	4L-SW-14	4L-SW-15	4L-SW-16	5L-B-1
	Non-Industrial	Industrial		6 ft	6 ft	6 ft	6 ft	6 ft	6 ft	6 ft	6 ft	6 ft	6 ft	4 ft
VOCs (µg/kg)				Excavated 10/19/2016	Excavated 10/19/2016	10/20/2016	10/20/2016	10/20/2016	11/21/2016	11/21/2016	11/21/2016	11/21/2016	11/21/2016	11/21/2016
1,1,1-Trichloroethane	640,000	640,000	140.2	<154	<556	<125	<118	<27.5	<62.5	<26	<125	<200	<64.4	<25
1,1-Dichloroethane	5,060	22,200	483.40	<154	<556	<125	<118	<27.5	<62.5	<26	<125	<200	<64.4	<25
1,1-Dichloroethene	320,000	1,190,000	5	<154	<556	<125	<118	<27.5	<62.5	<26	<125	<200	<64.4	<25
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	47,600 ^C	81,900 ^C	20,100 ^C	19,900 ^C	<27.5	373	<26	30,600 ^C	37,900 ^C	21,900 ^C	<25
1,2-Dichloroethane	652	2,870	2.8	<154	<556	<125	<118	<27.5	<62.5	<26	<125	<200	<64.4	<25
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	16,200 ^C	26,600 ^C	6,600 ^C	6,530 ^C	<27.5	156 ^J	<26	11,900 ^C	12,300 ^C	6,300 ^C	<25
Benzene	1,600	7,070	5.1	1,190 ^C	<556	197 ^{JC}	1,170 ^C	<27.5	<62.5	<26	<125	421 ^{JC}	230 ^C	<25
Chloroform	454	1,980	3.3	<287	<1030	<232	<219	<51	<116	<48.4	<232	570 ^{JAC}	276 ^{JC}	<46.4
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<154	<556	<125	<118	<27.5	<62.5	<26	<125	<200	<64.4	<25
Ethylbenzene	8,020	35,400	1570	43,000 ^{ABC}	80,500 ^{ABC}	13,400 ^{AC}	14,900 ^{AC}	<27.5	596	334	32,100 ^{AC}	29,900 ^{AC}	26,100 ^{AC}	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	4,410	6,210	1820	1,320	<27.5	2,500	165	2,570	3,280	1,440	<25
Methylene Chloride	61,800	1,150,000	2.6	<154	<556	<125	<118	<27.5	<62.5	<26	<125	<200	<64.4	<25
n-Butylbenzene	108,000	108,000	--	6,970	8,990	2,980	2,010	<27.5	3,810	<26	<125	4,590	1,810	<25
n-Propylbenzene	264,000	264,000	--	14,000	19,400	5,670	4,390	<27.5	9,900	440	8,690	11,300	4,860	<25
Naphthalene	5,520	24,100	658	6,890 ^{AC}	10,700 ^{AC}	5,410 ^C	3,620 ^C	<44	8,760 ^{AC}	209 ^J	5,920 ^{AC}	6,980 ^{AC}	3,010 ^C	<40
p-Isopropyltoluene	162,000	162,000	--	1,140	1,310 ^J	486	329 ^J	<27.5	478	<26	<125	710	181	<25
sec-Butylbenzene	145,000	145,000	--	1,470	1,850	572	438	<27.5	1,130	48.5 ^J	<125	1,100	314	<25
Styrene	867,000	867,000	220	<154	<556	<125	<118	<27.5	<62.5	<26	<125	<200	<64.4	<25
tert-Butylbenzene	183,000	183,000	--	1,700	1,760	305 ^J	381	<27.5	1,200	132	993	822	136 ^J	<25
Tetrachloroethene	33,000	145,000	4.5	<154	<556	<125	<118	<27.5	<62.5	<26	<125	<200	<64.4	<25
Toluene	818,000	818,000	1,107	933	8,950 ^C	<125	180 ^J	<27.5	79 ^J	<26	617	1,000	2,280 ^C	<25
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<154	<556	<125	<118	<27.5	<62.5	<26	<125	<200	<64.4	<25
Trichloroethene	1,300	8,410	3.6	<154	<556	<125	<118	<27.5	<62.5	<26	<125	<200	<64.4	<25
Vinyl chloride	67	2,080	0	<154	<556	<125	<118	<27.5	<62.5	<26	<125	<200	<64.4	<25
Xylene (Total)	260,000	260,000	3,960	38,400 ^C	222,000 ^C	7,630 ^C	30,200 ^C	<82.4	688	<78.1	35,700 ^C	67,000 ^C	67,100 ^C	<75

VOCs = Volatile Organic Compounds ^J = Estimated value.

ug/kg = Micrograms per kilogram -- = No generic RCL established.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Samples collected & analyzed for VOCs are included on this table. Where excavations were extended and the area of a sample result was removed, it is shown in half-tone and labeled with the excavation date.

Table 4A
Group A Excavations
Detected VOCS in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E5L				E11T						
	Direct Contact Pathway		Groundwater Pathway	5L-SW-1	5L-SW-2	5L-SW-3	5L-SW-4	11T-B-1	11T-B-2	11T-B-3	11T-B-4	11T-B-5	11T-SW-1	11T-SW-2
	Non-Industrial	Industrial		2 ft	2 ft	2 ft	2 ft	12 ft	12 ft	12 ft	12 ft	12 ft	6 ft	6 ft
			11/21/2016	11/21/2016	11/21/2016	11/21/2016	10/13/2016	10/13/2016	10/13/2016	5/9/2017	5/9/2017	10/13/2016	10/13/2016	
VOCs (µg/kg)														
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<27.2	<31.6	<30.1	<43.1	<30.5	<25.0	<25.0	<25	<32.9
1,1-Dichloroethane	5,060	22,200	483.40	<25	<25	<27.2	<31.6	<30.1	<43.1	<30.5	<25.0	<25.0	<25	<32.9
1,1-Dichloroethene	320,000	1,190,000	5	<25	<25	<27.2	<31.6	<30.1	<43.1	<30.5	<25.0	<25.0	<25	<32.9
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<25	<25	<27.2	<31.6	<30.1	<43.1	<30.5	<25.0	<25.0	<25	<32.9
1,2-Dichloroethane	652	2,870	2.8	<25	<25	<27.2	<31.6	<30.1	<43.1	<30.5	<25.0	<25.0	<25	<32.9
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<25	<25	<27.2	<31.6	<30.1	<43.1	<30.5	<25.0	<25.0	<25	<32.9
Benzene	1,600	7,070	5.1	<25	<25	<27.2	<31.6	<30.1	<43.1	<30.5	<25.0	<25.0	<25	<32.9
Chloroform	454	1,980	3.3	<46.4	<46.4	<50.5	<58.8	<56	<80.1	<56.6	<46.4	<46.4	<46.4	<61.1
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<25	<25	<27.2	<31.6	<30.1	<43.1	<30.5	<25.0	<25.0	<25	<32.9
Ethylbenzene	8,020	35,400	1570	<25	<25	<27.2	<31.6	<30.1	<43.1	<30.5	<25.0	<25.0	<25	<32.9
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<27.2	<31.6	<30.1	<43.1	<30.5	<25.0	<25.0	<25	<32.9
Methylene Chloride	61,800	1,150,000	2.6	<25	<25	<27.2	<31.6	<30.1	<43.1	<30.5	<25.0	<25.0	<25	<32.9
n-Butylbenzene	108,000	108,000	--	<25	<25	<27.2	<31.6	<30.1	<43.1	<30.5	<25.0	<25.0	<25	<32.9
n-Propylbenzene	264,000	264,000	--	<25	<25	<27.2	<31.6	<30.1	<43.1	<30.5	<25.0	<25.0	<25	<32.9
Naphthalene	5,520	24,100	658	<40	<40	<43.5	<50.7	<48.2	<69	<48.8	<40.0	<40.0	<40	<52.7
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<27.2	<31.6	<30.1	<43.1	<30.5	<25.0	<25.0	<25	<32.9
sec-Butylbenzene	145,000	145,000	--	<25	<25	<27.2	<31.6	<30.1	<43.1	<30.5	<25.0	<25.0	<25	<32.9
Styrene	867,000	867,000	220	<25	<25	<27.2	<31.6	<30.1	<43.1	<30.5	<25.0	<25.0	<25	<32.9
tert-Butylbenzene	183,000	183,000	--	<25	<25	<27.2	<31.6	<30.1	<43.1	<30.5	<25.0	<25.0	<25	<32.9
Tetrachloroethene	33,000	145,000	4.5	<25	<25	<27.2	<31.6	<30.1	<43.1	<30.5	<25.0	<25.0	<25	<32.9
Toluene	818,000	818,000	1,107	<25	<25	<27.2	<31.6	<30.1	<43.1	<30.5	<25.0	<25.0	<25	<32.9
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<25	<25	<27.2	<31.6	<30.1	<43.1	<30.5	<25.0	<25.0	<25	<32.9
Trichloroethene	1,300	8,410	3.6	<25	29.9 ^{JC}	<27.2	<31.6	<30.1	<43.1	<30.5	<25.0	<25.0	<25	271 ^C
Vinyl chloride	67	2,080	0	<25	<25	<27.2	<31.6	<30.1	<43.1	<30.5	<25.0	<25.0	<25	<32.9
Xylene (Total)	260,000	260,000	3,960	<75	<75	<81.5	<94.9	<90.3	<129	<91.5	<75.0	<75.0	<75	<98.7

VOCs = Volatile Organic Compounds ^J = Estimated value.

ug/kg = Micrograms per kilogram -- = No generic RCL established.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Samples collected & analyzed for VOCs are included on this table. Where excavations were extended and the area of a sample result was removed, it is shown in half-tone and labeled with the excavation date.

**Table 4A
Group A Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant**

Parameters	Generic RCLs			E11T										
	Direct Contact Pathway		Groundwater Pathway	11T-SW-3	11T-SW-4	11T-SW-5	11T-SW-6	11T-SW-7	11T-SW-8	11T-SW-8B	11T-SW-9	11T-SW-12	11T-SW-11	11T-SW-10
	Non-Industrial	Industrial		6 ft	6 ft	6 ft	6 ft	6 ft	6 ft	6 ft	6 ft	6 ft	6 ft	6 ft
			10/13/2016	10/13/2016	10/13/2016	10/13/2016	10/13/2016	10/13/2016	10/13/2016	5/9/2017	5/9/2017	6/28/2017	6/28/2017	6/28/2017
VOCs (µg/kg)				Excavated 05-09-17		Excavated 05-09-17				Excavated 05-09-17				
1,1,1-Trichloroethane	640,000	640,000	140.2	<35.2	<31.2	<27.8	<25	<39.1	<29.1	<25.0	107	<25.0	35.7 ^J	127
1,1-Dichloroethane	5,060	22,200	483.40	<35.2	<31.2	<27.8	<25	<39.1	<29.1	<25.0	<25.0	<25.0	<25.0	<25.0
1,1-Dichloroethene	320,000	1,190,000	5	<35.2	<31.2	<27.8	<25	<39.1	<29.1	<25.0	<25.0	<25.0	<25.0	<25.0
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<35.2	<31.2	<27.8	<25	<39.1	<29.1	<25.0	<25.0	<25.0	<25.0	<25.0
1,2-Dichloroethane	652	2,870	2.8	<35.2	<31.2	<27.8	<25	<39.1	<29.1	<25.0	<25.0	<25.0	<25.0	<25.0
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<35.2	<31.2	<27.8	<25	<39.1	<29.1	<25.0	<25.0	<25.0	<25.0	<25.0
Benzene	1,600	7,070	5.1	<35.2	<31.2	<27.8	<25	<39.1	<29.1	<25.0	<25.0	<25.0	<25.0	<25.0
Chloroform	454	1,980	3.3	<65.4	<58.1	<51.6	<46.4	<72.6	<54	<46.4	<46.4	<46.4	<46.4	<46.4
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<35.2	<31.2	<27.8	<25	<39.1	<29.1	<25.0	<25.0	<25.0	<25.0	<25.0
Ethylbenzene	8,020	35,400	1570	<35.2	<31.2	<27.8	<25	<39.1	<29.1	<25.0	<25.0	<25.0	<25.0	<25.0
Isopropylbenzene (Cumene)	268,000	268,000	--	<35.2	<31.2	<27.8	<25	<39.1	<29.1	<25.0	<25.0	<25.0	<25.0	<25.0
Methylene Chloride	61,800	1,150,000	2.6	<35.2	<31.2	<27.8	<25	<39.1	<29.1	<25.0	<25.0	<25.0	<25.0	<25.0
n-Butylbenzene	108,000	108,000	--	<35.2	<31.2	<27.8	<25	<39.1	<29.1	<25.0	<25.0	<25.0	<25.0	<25.0
n-Propylbenzene	264,000	264,000	--	<35.2	<31.2	<27.8	<25	<39.1	<29.1	<25.0	<25.0	<25.0	<25.0	<25.0
Naphthalene	5,520	24,100	658	<56.4	<50.1	<44.5	<40	<62.6	<46.6	<40.0	<40.0	<40.0	<40.0	<40.0
p-Isopropyltoluene	162,000	162,000	--	<35.2	<31.2	<27.8	<25	<39.1	<29.1	<25.0	<25.0	<25.0	<25.0	<25.0
sec-Butylbenzene	145,000	145,000	--	<35.2	<31.2	<27.8	<25	<39.1	<29.1	<25.0	<25.0	<25.0	<25.0	<25.0
Styrene	867,000	867,000	220	<35.2	<31.2	<27.8	<25	<39.1	<29.1	<25.0	<25.0	<25.0	<25.0	<25.0
tert-Butylbenzene	183,000	183,000	--	<35.2	<31.2	<27.8	<25	<39.1	<29.1	<25.0	<25.0	<25.0	<25.0	<25.0
Tetrachloroethene	33,000	145,000	4.5	<35.2	<31.2	<27.8	<25	<39.1	<29.1	<25.0	<25.0	<25.0	<25.0	<25.0
Toluene	818,000	818,000	1,107	<35.2	<31.2	<27.8	<25	<39.1	<29.1	<25.0	<25.0	<25.0	<25.0	<25.0
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<35.2	<31.2	<27.8	<25	<39.1	<29.1	<25.0	<25.0	<25.0	<25.0	<25.0
Trichloroethene	1,300	8,410	3.6	3,000 ^{AC}	980 ^C	1,300 ^{AC}	243 ^C	<39.1	<29.1	2,740 ^{AC}	522 ^C	2,780 ^{AC}	6,240 ^{AC}	779 ^C
Vinyl chloride	67	2,080	0	<35.2	<31.2	<27.8	<25	<39.1	<29.1	<25.0	<25.0	<25.0	<25.0	<25.0
Xylene (Total)	260,000	260,000	3,960	<105.6	<93.8	<83.3	<75	<117	<87.2	<75.0	<75.0	<75.0	<75.0	<75.0

VOCs = Volatile Organic Compounds ^J = Estimated value.

ug/kg = Micrograms per kilogram -- = No generic RCL established.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Samples collected & analyzed for VOCs are included on this table. Where excavations were extended and the area of a sample result was removed, it is shown in half-tone and labeled with the excavation date.

**Table 4A
Group A Excavations
Detected VOCS in Verification Soil Samples
Former Kenosha Engine Plant**

Parameters	Generic RCLs			E13T										
	Direct Contact Pathway		Groundwater Pathway	13T-B-1	13T-B-2	13T-B-3	13T-SW-1	13T-SW-2	13T-SW-3	13T-SW-4	13T-SW-5	13T-SW-6	13T-SW-7	13T-SW-8
	Non-Industrial	Industrial		12 ft 10/12/2016	12 ft 4/24/2017	12 ft 5/31/2017	6 ft 10/12/2016	6 ft 10/12/2016	6 ft 10/12/2016	6 ft 10/12/2016	6 ft 11/30/2016	6 ft 4/24/2017	6 ft 5/9/2017	6 ft 5/9/2017
VOCs (µg/kg)							Excavated 11-30-16				Excavated 04-24-17	Excavated 05-09-17		Excavated 05-31-17
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25.0	<25.0	<290	<25	<25	<30.9	<25	<53.8	<25.0	<25.0
1,1-Dichloroethane	5,060	22,200	483.40	<25	<25.0	113	<290	<25	<25	<30.9	<25	<53.8	<25.0	971 ^C
1,1-Dichloroethene	320,000	1,190,000	5	<25	<25.0	<25.0	<290	<25	<25	<30.9	<25	<53.8	<25.0	43.9 ^{JC}
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<25	<25.0	30.4 ^J	<290	<25	<25	<30.9	<25	<53.8	<25.0	<25.0
1,2-Dichloroethane	652	2,870	2.8	<25	<25.0	<25.0	<290	<25	<25	<30.9	<25	<53.8	<25.0	<25.0
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<25	<25.0	<25.0	<290	<25	<25	<30.9	<25	<53.8	<25.0	<25.0
Benzene	1,600	7,070	5.1	<25	<25.0	30.7 ^{JC}	<290	<25	<25	<30.9	<25	<53.8	<25.0	354 ^C
Chloroform	454	1,980	3.3	<46.4	<46.4	<46.4	<538	<46.4	<46.4	<57.3	<46.4	<99.9	<46.4	<46.4
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<25	65.3 ^{JC}	465 ^C	1,530 ^C	<25	112 ^C	<30.9	125 ^C	390 ^C	<25.0	5,600 ^C
Ethylbenzene	8,020	35,400	1570	<25	<25.0	<25.0	<290	<25	<25	<30.9	<25	<53.8	<25.0	<25.0
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25.0	<25.0	<290	<25	<25	<30.9	<25	<53.8	<25.0	<25.0
Methylene Chloride	61,800	1,150,000	2.6	<25	<25.0	<25.0	<290	<25	<25	<30.9	<25	<53.8	<25.0	<25.0
n-Butylbenzene	108,000	108,000	--	<25	<25.0	<25.0	<290	<25	<25	<30.9	<25	<53.8	<25.0	<25.0
n-Propylbenzene	264,000	264,000	--	<25	<25.0	<25.0	<290	<25	<25	<30.9	<25	<53.8	<25.0	<25.0
Naphthalene	5,520	24,100	658	<40	<40.0	<40.0	<464	<40	<40	<49.4	<40	<86.1	<40.0	<40.0
p-Isopropyltoluene	162,000	162,000	--	<25	<25.0	<25.0	<290	<25	<25	<30.9	<25	<53.8	<25.0	<25.0
sec-Butylbenzene	145,000	145,000	--	<25	<25.0	<25.0	<290	<25	<25	<30.9	<25	<53.8	<25.0	<25.0
Styrene	867,000	867,000	220	<25	<25.0	<25.0	<290	<25	<25	<30.9	<25	<53.8	<25.0	<25.0
tert-Butylbenzene	183,000	183,000	--	<25	<25.0	<25.0	<290	<25	<25	<30.9	<25	<53.8	<25.0	<25.0
Tetrachloroethene	33,000	145,000	4.5	<25	<25.0	97 ^C	<290	<25	<25	<30.9	<25	<53.8	<25.0	<25.0
Toluene	818,000	818,000	1,107	<25	<25.0	31.3 ^J	<290	<25	<25	<30.9	<25	<53.8	<25.0	713
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<25	<25.0	<25.0	<290	<25	39.1 ^J	<30.9	70.1 ^C	<53.8	<25.0	79.8 ^C
Trichloroethene	1,300	8,410	3.6	<25	<25.0	3,330 ^{AC}	68,300 ^{ABC}	<25	142 ^C	<30.9	5,320 ^{AC}	13,200 ^{ABC}	<25.0	1,510 ^{AC}
Vinyl chloride	67	2,080	0	<25	<25.0	<25.0	<290	<25	<25	<30.9	<25	<53.8	<25.0	46.1 ^{JC}
Xylene (Total)	260,000	260,000	3,960	<75.0	<75.0	<75.0	<870	<75	<75	<92.6	<75	<161	<75.0	<75.0

VOCs = Volatile Organic Compounds ^J = Estimated value.

µg/kg = Micrograms per kilogram -- = No generic RCL established.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Samples collected & analyzed for VOCs are included on this table. Where excavations were extended and the area of a sample result was removed, it is shown in half-tone and labeled with the excavation date.

**Table 4A
Group A Excavations
Detected VOCS in Verification Soil Samples
Former Kenosha Engine Plant**

Parameters	Generic RCLs			E13T		E14L								
	Direct Contact Pathway		Groundwater Pathway	13T-SW-9	13T-SW-10	14L-B-1	14L-B-2	14L-SW-1	14L-SW-2	14L-SW-3	14L-SW-4	14L-SW-5	14L-SW-6	14L-SW-7
	Non-Industrial	Industrial		6 ft	6 ft	12 ft	12 ft	6 ft	6 ft	6 ft	6 ft	6 ft	6 ft	6 ft
			5/9/2017	5/31/2017	10/14/2016	10/14/2016	10/11/2016	10/11/2016	10/12/2016	10/12/2016	10/14/2016	10/14/2016	10/14/2016	
VOCs (µg/kg)														
1,1,1-Trichloroethane	640,000	640,000	140.2	<25.0	<25.0	<36.2	<35.7	<31.2	<26.9	<25.5	<29.8	<27.5	<31.6	<287
1,1-Dichloroethane	5,060	22,200	483.40	<25.0	<25.0	<36.2	<35.7	<31.2	<26.9	<25.5	<29.8	<27.5	<31.6	<287
1,1-Dichloroethene	320,000	1,190,000	5	<25.0	<25.0	<36.2	<35.7	<31.2	<26.9	<25.5	<29.8	<27.5	<31.6	<287
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<25.0	39.1 ^J	377	155	<31.2	200	<25.5	<29.8	<27.5	4,460 ^C	63,300 ^C
1,2-Dichloroethane	652	2,870	2.8	<25.0	<25.0	<36.2	<35.7	<31.2	<26.9	<25.5	<29.8	<27.5	<31.6	<287
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<25.0	<25.0	143	82.8 ^J	52.1 ^J	205	<25.5	<29.8	<27.5	811	21,100 ^C
Benzene	1,600	7,070	5.1	<25.0	<25.0	219 ^C	858 ^C	421 ^C	1,230 ^C	<25.5	<29.8	<27.5	<31.6	<287
Chloroform	454	1,980	3.3	<46.4	<46.4	<67.3	<66.3	<58.1	<49.9	<47.4	<55.3	<51	<58.8	<534
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<25.0	43.3 ^{JC}	<36.2	<35.7	<31.2	<26.9	<25.5	<29.8	<27.5	<31.6	<287
Ethylbenzene	8,020	35,400	1570	<25.0	<25.0	396	229	1390	3,240 ^C	36.5 ^J	<29.8	<27.5	1480	15,700 ^{AC}
Isopropylbenzene (Cumene)	268,000	268,000	--	<25.0	<25.0	66.2 ^J	813	261	168	<25.5	<29.8	<27.5	582	4,010
Methylene Chloride	61,800	1,150,000	2.6	<25.0	<25.0	<36.2	<35.7	<31.2	<26.9	<25.5	<29.8	<27.5	<31.6	<287
n-Butylbenzene	108,000	108,000	--	<25.0	<25.0	95.5 ^J	<35.7	216	<26.9	48.1 ^U	<29.8	<27.5	611	11,900
n-Propylbenzene	264,000	264,000	--	<25.0	<25.0	136	400	454	261	<25.5	<29.8	<27.5	1170	8,970
Naphthalene	5,520	24,100	658	<40.0	<40.0	315 ^J	975 ^C	630	<43.1	<40.9	<47.7	<44	889 ^C	10,200 ^{AC}
p-Isopropyltoluene	162,000	162,000	--	<25.0	<25.0	48.8 ^J	<35.7	104	<26.9	<25.5	<29.8	<27.5	312	3,910
sec-Butylbenzene	145,000	145,000	--	<25.0	<25.0	<36.2	<35.7	105	<26.9	33.3 ^U	<29.8	<27.5	293	2,570
Styrene	867,000	867,000	220	<25.0	<25.0	<36.2	<35.7	<31.2	<26.9	<25.5	<29.8	<27.5	<31.6	<287
tert-Butylbenzene	183,000	183,000	--	<25.0	<25.0	<36.2	<35.7	<31.2	<26.9	<25.5	<29.8	<27.5	118	1,270
Tetrachloroethene	33,000	145,000	4.5	<25.0	<25.0	<36.2	<35.7	<31.2	<26.9	<25.5	<29.8	<27.5	<31.6	949 ^C
Toluene	818,000	818,000	1,107	<25.0	<25.0	126	106 ^J	57.7 ^J	130	<25.5	<29.8	<27.5	<31.6	<287
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<25.0	<25.0	<36.2	<35.7	<31.2	<26.9	<25.5	<29.8	<27.5	<31.6	<287
Trichloroethene	1,300	8,410	3.6	404 ^C	53.9 ^{JC}	<36.2	<35.7	<31.2	<26.9	<25.5	<29.8	<27.5	<31.6	<287
Vinyl chloride	67	2,080	0	<25.0	<25.0	<36.2	<35.7	<31.2	<26.9	<25.5	<29.8	<27.5	<31.6	<287
Xylene (Total)	260,000	260,000	3,960	<75.0	<75.0	769	3,190	459.9	1269.4	<76.5	89.3	<82.4	1680	39,700 ^C

VOCs = Volatile Organic Compounds ^J = Estimated value.

ug/kg = Micrograms per kilogram -- = No generic RCL established.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Samples collected & analyzed for VOCs are included on this table. Where excavations were extended and the area of a sample result was removed, it is shown in half-tone and labeled with the excavation date.

Table 4A
Group A Excavations
Detected VOCS in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E14L	E24B									
	Direct Contact Pathway		Groundwater Pathway	14L-SW-8	24B-B-1	24B-B-2	24B-B-3	24B-B-4	24B-B-5	24B-B-6	24B-B-7	24B-B-8	24B-SW-1	24B-SW-2
	Non-Industrial	Industrial		6 ft 10/14/2016	12 ft 10/24/2016	12 ft 10/24/2016	12 ft 10/25/2016	12 ft 10/25/2016	12 ft 10/27/2016	12 ft 11/3/2016	12 ft 11/30/2016	12 ft 4/20/2017	6 ft 10/24/2016	6 ft 10/24/2016
VOCs (µg/kg)														
1,1,1-Trichloroethane	640,000	640,000	140.2	406^C	<25	<25.8	<25	<26	<167	<26.3	<25	<62.5	<26.6	<25
1,1-Dichloroethane	5,060	22,200	483.40	<29.1	<25	<25.8	<25	<26	<167	<26.3	<25	<62.5	<26.6	<25
1,1-Dichloroethene	320,000	1,190,000	5	<29.1	<25	<25.8	<25	<26	<167	<26.3	<25	<62.5	<26.6	<25
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<29.1	<25	<25.8	<25	<26	4,410^C	309	77.5	<62.5	<26.6	48.2^J
1,2-Dichloroethane	652	2,870	2.8	<29.1	<25	<25.8	<25	<26	<167	<26.3	<25	<62.5	<26.6	<25
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<29.1	<25	<25.8	<25	<26	2,470^C	418	53.5^J	<62.5	<26.6	266
Benzene	1,600	7,070	5.1	<29.1	<25	157^C	<25	235^{J+C}	358^{JC}	152^C	163^C	<62.5	<26.6	218^C
Chloroform	454	1,980	3.3	<54	<46.4	<47.9	<46.4	<48.4	<310	<48.9	<46.4	<116	<49.4	<46.4
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<29.1	<25	<25.8	<25	<26	<167	<26.3	<25	15,100^C	<26.6	<25
Ethylbenzene	8,020	35,400	1570	<29.1	<25	<25.8	<25	<26	1,670^C	149	<25	<62.5	<26.6	7,000^C
Isopropylbenzene (Cumene)	268,000	268,000	--	<29.1	109	345	<25	89.2^{J+}	638	836	147	<62.5	<26.6	1,100
Methylene Chloride	61,800	1,150,000	2.6	<29.1	<25	<25.8	<25	<26	<167	<26.3	<25	<62.5	<26.6	<25
n-Butylbenzene	108,000	108,000	--	<29.1	<25	305	<25	<26	<167	<26.3	<25	<62.5	142	1,160
n-Propylbenzene	264,000	264,000	--	<29.1	<25	151	<25	<26	898	2,280	90.9	<62.5	<26.6	3,600
Naphthalene	5,520	24,100	658	<46.6	65.6^J	96.9^J	<40	<41.7	1,930^C	3,290^C	72.2^J	<100	<42.6	4,630^C
p-Isopropyltoluene	162,000	162,000	--	<29.1	<25	94.1	<25	<26	5,710	67^J	<25	<62.5	<26.6	580
sec-Butylbenzene	145,000	145,000	--	<29.1	<25	319	<25	<26	490	61.2^J	<25	<62.5	294	527
Styrene	867,000	867,000	220	<29.1	<25	<25.8	<25	<26	<167	<26.3	<25	<62.5	<26.6	<25
tert-Butylbenzene	183,000	183,000	--	<29.1	<25	<25.8	<25	<26	<167	<26.3	<25	<62.5	<26.6	<25
Tetrachloroethene	33,000	145,000	4.5	1,230^C	<25	<25.8	<25	<26	<167	<26.3	<25	<62.5	<26.6	<25
Toluene	818,000	818,000	1,107	<29.1	<25	369	<25	<26	<167	47^J	<25	<62.5	<26.6	124
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<29.1	<25	<25.8	<25	<26	<167	<26.3	<25	<62.5	<26.6	<25
Trichloroethene	1,300	8,410	3.6	<29.1	<25	<25.8	<25	<26	<167	<26.3	<25	<62.5	<26.6	<25
Vinyl chloride	67	2,080	0	<29.1	<25	<25.8	<25	<26	<167	<26.3	<25	6,760^{ABC}	<26.6	<25
Xylene (Total)	260,000	260,000	3,960	<87.2	<75	<77.3	98.2^J	148^{J+}	1,130^J	1,030	751	<188	<79.8	967

VOCs = Volatile Organic Compounds ^J = Estimated value.

ug/kg = Micrograms per kilogram -- = No generic RCL established.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Samples collected & analyzed for VOCs are included on this table. Where excavations were extended and the area of a sample result was removed, it is shown in half-tone and labeled with the excavation date.

Table 4A
Group A Excavations
Detected VOCS in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E24B										
	Direct Contact Pathway		Groundwater Pathway	24B-SW-3	24B-SW-4	24B-SW-5	24B-SW-6	24B-SW-7	24B-SW-8	24B-SW-9	24B-SW-10	24B-SW-11	24B-SW-12	24B-SW-13
	Non-Industrial	Industrial		6 ft 10/24/2016	6 ft 10/25/2016	6 ft 10/25/2016	6 ft 10/25/2016	6 ft 10/25/2016	6 ft 10/25/2016	6 ft 10/25/2016	6 ft 10/25/2016	6 ft 10/27/2016	6 ft 10/27/2016	6 ft 10/27/2016
VOCs (µg/kg)														Excavated 11-30-17
1,1,1-Trichloroethane	640,000	640,000	140.2	<269	<25	<68.5	<50	<29.4	<25	<25	<25	<27.8	<174	<62.5
1,1-Dichloroethane	5,060	22,200	483.40	<269	<25	<68.5	<50	<29.4	<25	<25	<25	<27.8	<174	<62.5
1,1-Dichloroethene	320,000	1,190,000	5	<269	<25	<68.5	<50	<29.4	<25	<25	<25	<27.8	<174	<62.5
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	71,900^C	<25	16,200^C	8,520^C	<29.4	<25	<25	4,470^C	<27.8	25,800^C	4,420^C
1,2-Dichloroethane	652	2,870	2.8	<269	<25	<68.5	<50	<29.4	<25	<25	<25	<27.8	<174	<62.5
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	18,300^C	<25	4,170^C	2,140^C	<29.4	<25	<25	1,740^C	<27.8	6,850^C	2,630^C
Benzene	1,600	7,070	5.1	<269	<25	324^C	590^C	<29.4	<25	<25	<25	<27.8	409^{JC}	5,300^{AC}
Chloroform	454	1,980	3.3	<499	<46.4	<127	<92.9	<54.6	<46.4	<46.4	<46.4	<51.6	<323	<116
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<269	<25	<68.5	<50	<29.4	<25	<25	<25	<27.8	<174	<62.5
Ethylbenzene	8,020	35,400	1570	23,500^{AC}	<25	4,070^C	3,170^C	182	<25	<25	2,910^C	<27.8	7,480^C	6,100^C
Isopropylbenzene (Cumene)	268,000	268,000	--	3,870	<25	1,330	732	205	<25	<25	975	178	1,130	1,690
Methylene Chloride	61,800	1,150,000	2.6	<269	<25	<68.5	<50	<29.4	<25	<25	<25	<27.8	<174	<62.5
n-Butylbenzene	108,000	108,000	--	<269	<25	1,830	958	196	<25	<25	1,120	466	2,620	2,370
n-Propylbenzene	264,000	264,000	--	11,500	<25	2,420	1,450	388	<25	<25	1,770	448	4,110	3,160
Naphthalene	5,520	24,100	658	14,700^{AC}	<40	9,690^{AC}	4,330^C	284 ^J	<40	<40	4,700^C	<44.5	8,680^{AC}	5,740^{AC}
p-Isopropyltoluene	162,000	162,000	--	2,780	<25	1,060	539	277	<25	<25	752	52 ^J	910	1,370
sec-Butylbenzene	145,000	145,000	--	2,250	58.9 ^J	693	392	211	38.1 ^J	<25	475	365	650	1,030
Styrene	867,000	867,000	220	<269	<25	<68.5	<50	<29.4	<25	<25	<25	<27.8	<174	<62.5
tert-Butylbenzene	183,000	183,000	--	<269	<25	<68.5	<50	<29.4	<25	<25	<25	<27.8	<174	<62.5
Tetrachloroethene	33,000	145,000	4.5	<269	<25	<68.5	<50	<29.4	<25	<25	<25	<27.8	<174	<62.5
Toluene	818,000	818,000	1,107	1,030	<25	245	475	<29.4	<25	<25	<25	<27.8	197 ^J	1,200^C
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<269	<25	<68.5	<50	<29.4	<25	<25	<25	<27.8	<174	<62.5
Trichloroethene	1,300	8,410	3.6	<269	<25	<68.5	<50	<29.4	<25	<25	<25	<27.8	<174	<62.5
Vinyl chloride	67	2,080	0	<269	<25	<68.5	<50	<29.4	<25	<25	<25	<27.8	<174	<62.5
Xylene (Total)	260,000	260,000	3,960	75,900^C	<75	6,710^C	7,890^C	<88.2	<75	<75	1,570	<83.3	24,800^C	10,400^C

VOCs = Volatile Organic Compounds ^J = Estimated value.

ug/kg = Micrograms per kilogram -- = No generic RCL established.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Samples collected & analyzed for VOCs are included on this table. Where excavations were extended and the area of a sample result was removed, it is shown in half-tone and labeled with the excavation date.

Table 4A
Group A Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E24B						E26L				
	Direct Contact Pathway		Groundwater Pathway	24B-SW-14	24B-SW-15	24B-SW-16	24B-SW-17	24B-SW-18	24B-SW-19	26L-B-1	26-B-2	26-SW-1	26-SW-2	26-SW-3
	Non-Industrial	Industrial		6 ft	6 ft	6 ft	6 ft	6 ft	6 ft	12 ft	12 ft	6 ft	6 ft	6 ft
VOCs (µg/kg)				11/3/2016	Excavated 04-20-17 11/29/2016	11/30/2016	Excavated 05-12-17 4/20/2017	4/20/2017	5/12/2017	10/27/2016	10/28/2016	10/27/2016	10/27/2016	Excavated 11-30-16 10/27/2016
1,1,1-Trichloroethane	640,000	640,000	140.2	<63.8	<100	<50	<208	<204	<25.0	<25.5	<250	<25	<25	<125
1,1-Dichloroethane	5,060	22,200	483.40	<63.8	<100	<50	<208	<204	<25.0	<25.5	<250	<25	<25	<125
1,1-Dichloroethene	320,000	1,190,000	5	<63.8	<100	<50	<208	<204	<25.0	<25.5	<250	<25	<25	<125
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	14,100^C	23,500^C	8,970^C	28,400^C	56,400^C	15,600^C	32.7 ^J	44,200^C	<25	<25	24,500^C
1,2-Dichloroethane	652	2,870	2.8	<63.8	<100	<50	<208	<204	<25.0	<25.5	<250	<25	<25	<125
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	3,780^C	6,040^C	2,270^C	7,450^C	15,400^C	3,410^C	31.9 ^J	11,900^C	<25	<25	6,640^C
Benzene	1,600	7,070	5.1	7,120^{ABC}	13,600^{ABC}	7,980^{ABC}	7,810^{ABC}	7,830^{ABC}	4,380^{AC}	<25.5	<250	<25	<25	<125
Chloroform	454	1,980	3.3	<118	<186	<92.9	<387	<379	<46.4	<47.4	<464	<46.4	<46.4	<232
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<63.8	<100	<50	<208	<204	<25.0	<25.5	<250	<25	<25	<125
Ethylbenzene	8,020	35,400	1570	5,330^C	8,750^{AC}	3,890^C	12,200^{AC}	23,000^{AC}	5,940^C	<25.5	8,270^{AC}	<25	<25	65,600^{ABC}
Isopropylbenzene (Cumene)	268,000	268,000	--	1,530	974	746	2,810	2,960	1,530	1090	5,340	<25	<25	1,350
Methylene Chloride	61,800	1,150,000	2.6	<63.8	<100	<50	<208	<204	<25.0	<25.5	<250	<25	<25	<125
n-Butylbenzene	108,000	108,000	--	2,100	<100	<50	3,470	5,620	1,860	<25.5	8,030	<25	<25	<125
n-Propylbenzene	264,000	264,000	--	2,680	3,230	1,430	4,580	9,320	2,420	1,120	8,570	<25	<25	3,480
Naphthalene	5,520	24,100	658	5,490^C	8,710^{AC}	3,930^C	7,000^{AC}	11,500^{AC}	3,820^C	<40.9	3,660^C	<40	<40	6,670^{AC}
p-Isopropyltoluene	162,000	162,000	--	1,270	493	486	1,940	1,300	1,120	<25.5	5,120	<25	<25	874
sec-Butylbenzene	145,000	145,000	--	891	392	378	1,570	1,390	873	632	3,360	<25	<25	448
Styrene	867,000	867,000	220	<63.8	<100	<50	<208	<204	<25.0	<25.5	<250	<25	<25	<125
tert-Butylbenzene	183,000	183,000	--	<63.8	<100	<50	<208	<204	<25.0	37.1 ^J	<250	<25	<25	<125
Tetrachloroethene	33,000	145,000	4.5	<63.8	<100	<50	<208	<204	<25.0	<25.5	<250	<25	<25	<125
Toluene	818,000	818,000	1,107	3,310^C	3,190^C	1,860^C	8,760^C	4,020^C	2,880^C	<25.5	362 ^J	<25	<25	859
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<63.8	<100	<50	<208	<204	<25.0	<25.5	<250	<25	<25	<125
Trichloroethene	1,300	8,410	3.6	<63.8	<100	<50	<208	<204	<25.0	<25.5	<250	<25	39.7^{JC}	<125
Vinyl chloride	67	2,080	0	<63.8	<100	<50	<208	<204	<25.0	<25.5	<250	<25	<25	<125
Xylene (Total)	260,000	260,000	3,960	17,700^C	36,700^C	16,000^C	47,800^C	104,000^C	23,900^C	417	9,590^C	<75	<75	443,000^{ABC}

VOCs = Volatile Organic Compounds ^J = Estimated value.

ug/kg = Micrograms per kilogram -- = No generic RCL established.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Samples collected & analyzed for VOCs are included on this table. Where excavations were extended and the area of a sample result was removed, it is shown in half-tone and labeled with the excavation date.

Table 4A
Group A Excavations
Detected VOCS in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E26L				E34L					E36L	
	Direct Contact Pathway		Groundwater Pathway	26-SW-4	26-SW-5	26-SW-6	26L-SW-7	34L-B-1	34L-SW-1	34L-SW-2	34L-SW-3	34L-SW-4	36L-B-1	36L-SW-1
	Non-Industrial	Industrial		6 ft 10/28/2016	6 ft 10/28/2016	6 ft 10/28/2016	6 ft 11/30/2016	12 ft 11/16/2016	6 ft 11/16/2016	6 ft 11/16/2016	6 ft 11/16/2016	6 ft 11/16/2016	4 ft 11/10/2016	2 ft 11/10/2016
VOCs (µg/kg)														
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25.3	<26	<25	<25	<25	<25	<25	<25.3	<41
1,1-Dichloroethane	5,060	22,200	483.40	<25	<25	<25.3	<26	<25	<25	<25	<25	<25	<25.3	<41
1,1-Dichloroethene	320,000	1,190,000	5	<25	<25	<25.3	<26	<25	<25	<25	<25	<25	<25.3	<41
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	7,680 ^C	<25	<25.3	<26	<25	<25	<25	<25	<25	<25.3	61.1 ^J
1,2-Dichloroethane	652	2,870	2.8	<25	<25	<25.3	<26	<25	<25	<25	<25	<25	<25.3	<41
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	2,070 ^C	<25	<25.3	<26	<25	<25	<25	<25	<25	<25.3	<41
Benzene	1,600	7,070	5.1	214 ^C	<25	<25.3	<26	<25	<25	<25	<25	<25	<25.3	<41
Chloroform	454	1,980	3.3	<46.4	<46.4	<46.9	<48.4	<46.4	<46.4	<46.4	<46.4	<46.4	<46.9	<76.1
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<25	<25	<25.3	<26	<25	<25	<25	<25	<25	<25.3	<41
Ethylbenzene	8,020	35,400	1570	2,810 ^C	933	<25.3	<26	<25	<25	<25	<25	<25	<25.3	<41
Isopropylbenzene (Cumene)	268,000	268,000	--	835	842	<25.3	<26	42.5 ^J	41.7 ^J	<25	<25	<25	<25.3	<41
Methylene Chloride	61,800	1,150,000	2.6	<25	<25	<25.3	<26	<25	<25	<25	<25	<25	<25.3	<41
n-Butylbenzene	108,000	108,000	--	1,000	1,200	<25.3	<26	145	135	<25	<25	<25	<25.3	<41
n-Propylbenzene	264,000	264,000	--	1,320	1,480	<25.3	<26	70.7	54.6 ^J	<25	<25	<25	<25.3	<41
Naphthalene	5,520	24,100	658	3,010 ^C	2,160 ^C	<40.4	<41.7	<40	<40	<40	<40	<40	<40.4	<65.6
p-Isopropyltoluene	162,000	162,000	--	569	831	<25.3	<26	50.4 ^J	38.1 ^J	<25	<25	<25	<25.3	<41
sec-Butylbenzene	145,000	145,000	--	346	599	<25.3	<26	91.6	88.7	<25	<25	<25	<25.3	<41
Styrene	867,000	867,000	220	32.6 ^J	<25	<25.3	<26	<25	<25	<25	<25	<25	<25.3	<41
tert-Butylbenzene	183,000	183,000	--	<25	<25	<25.3	<26	<25	<25	<25	<25	<25	<25.3	<41
Tetrachloroethene	33,000	145,000	4.5	<25	<25	<25.3	<26	<25	<25	<25	<25	<25	<25.3	<41
Toluene	818,000	818,000	1,107	953	<25	<25.3	<26	<25	<25	<25	<25	<25	<25.3	<41
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<25	<25	<25.3	<26	<25	<25	<25	<25	<25	<25.3	<41
Trichloroethene	1,300	8,410	3.6	<25	<25	<25.3	<26	<25	<25	<25	<25	<25	<25.3	<41
Vinyl chloride	67	2,080	0	<25	<25	<25.3	<26	<25	<25	<25	<25	<25	<25.3	<41
Xylene (Total)	260,000	260,000	3,960	6,080 ^C	<75	<75.8	<78.1	<75	<75	<75	<75	<75	<75.8	<123

VOCs = Volatile Organic Compounds ^J = Estimated value.

ug/kg = Micrograms per kilogram -- = No generic RCL established.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Samples collected & analyzed for VOCs are included on this table. Where excavations were extended and the area of a sample result was removed, it is shown in half-tone and labeled with the excavation date.

Table 4A
Group A Excavations
Detected VOCS in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E36L			E47B					
	Direct Contact Pathway		Groundwater Pathway	36L-SW-2	36L-SW-3	36L-SW-4	47B-B-1	47B-SW-1	47B-SW-2	47B-SW-3	47B-SW-4	47B-SW-5
	Non-Industrial	Industrial		2 ft	2 ft	2 ft	10 ft	5 ft	5 ft	5 ft	5 ft	5 ft
			11/10/2016	11/10/2016	11/10/2016	12/8/2016	12/8/2016	12/8/2016	12/8/2016	12/8/2016	12/8/2016	4/21/2017
VOCs (µg/kg)									Excavated 04-21-17			
1,1,1-Trichloroethane	640,000	640,000	140.2	<44.6	<29.4	<26.3	<25	130	<26	<29.4	<27.2	<36.2
1,1-Dichloroethane	5,060	22,200	483.40	<44.6	<29.4	<26.3	<25	<28.7	<26	<29.4	<27.2	<36.2
1,1-Dichloroethene	320,000	1,190,000	5	<44.6	<29.4	<26.3	<25	<28.7	<26	<29.4	<27.2	<36.2
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<44.6	<29.4	<26.3	<25	<28.7	<26	<29.4	<27.2	<36.2
1,2-Dichloroethane	652	2,870	2.8	<44.6	<29.4	<26.3	<25	<28.7	<26	<29.4	<27.2	<36.2
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<44.6	<29.4	<26.3	<25	<28.7	<26	<29.4	<27.2	<36.2
Benzene	1,600	7,070	5.1	<44.6	<29.4	<26.3	<25	<28.7	<26	<29.4	<27.2	<36.2
Chloroform	454	1,980	3.3	<82.9	<54.6	<48.9	<46.4	<53.4	<48.4	<54.6	<50.5	<67.3
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<44.6	<29.4	<26.3	<25	<28.7	<26	<29.4	<27.2	<36.2
Ethylbenzene	8,020	35,400	1570	<44.6	<29.4	<26.3	<25	<28.7	<26	<29.4	<27.2	<36.2
Isopropylbenzene (Cumene)	268,000	268,000	--	<44.6	<29.4	<26.3	<25	<28.7	<26	<29.4	<27.2	<36.2
Methylene Chloride	61,800	1,150,000	2.6	<44.6	<29.4	<26.3	<25	<28.7	<26	<29.4	<27.2	<36.2
n-Butylbenzene	108,000	108,000	--	<44.6	<29.4	<26.3	<25	<28.7	<26	<29.4	<27.2	<36.2
n-Propylbenzene	264,000	264,000	--	<44.6	<29.4	<26.3	<25	<28.7	<26	<29.4	<27.2	<36.2
Naphthalene	5,520	24,100	658	<71.5	<47.1	<42.2	<40	130^J	119 ^J	<47.1	<43.5	<58.0
p-Isopropyltoluene	162,000	162,000	--	<44.6	<29.4	<26.3	<25	<28.7	<26	<29.4	<27.2	<36.2
sec-Butylbenzene	145,000	145,000	--	<44.6	<29.4	<26.3	<25	<28.7	<26	<29.4	<27.2	<36.2
Styrene	867,000	867,000	220	<44.6	<29.4	<26.3	<25	<28.7	<26	<29.4	<27.2	<36.2
tert-Butylbenzene	183,000	183,000	--	<44.6	<29.4	<26.3	<25	<28.7	<26	<29.4	<27.2	<36.2
Tetrachloroethene	33,000	145,000	4.5	<44.6	<29.4	<26.3	<25	<28.7	<26	<29.4	<27.2	<36.2
Toluene	818,000	818,000	1,107	<44.6	<29.4	<26.3	<25	<28.7	<26	<29.4	<27.2	<36.2
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<44.6	<29.4	<26.3	<25	<28.7	<26	<29.4	<27.2	<36.2
Trichloroethene	1,300	8,410	3.6	<44.6	40.1^{JC}	<26.3	<25	223^C	449^C	<29.4	<27.2	<36.2
Vinyl chloride	67	2,080	0	<44.6	<29.4	<26.3	<25	<28.7	<26	<29.4	<27.2	<36.2
Xylene (Total)	260,000	260,000	3,960	<134	<88.2	<78.9	<75	<86.2	<78.1	<88.2	<81.5	<109

VOCs = Volatile Organic Compounds ^J = Estimated value.

ug/kg = Micrograms per kilogram -- = No generic RCL established.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Samples collected & analyzed for VOCs are included on this table. Where excavations were extended and the area of a sample result was removed, it is shown in half-tone and labeled with the excavation date.

Table 4B
Group A Excavations
PAHs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E1L	E3L	E4L						
	Direct Contact Pathway		Groundwater Pathway	1L-B-1	3L-B-1	4L-B-1	4L-B-2	4L-B-3	4L-B-4	4L-B-5	4L-B-6	4L-B-7
	Non-Industrial	Industrial		0 ft 11/18/2016	0 ft 11/17/2016	12 ft 10/14/2016	12 ft 10/17/2016	12 ft 10/17/2016	12 ft 10/17/2016	12 ft 10/17/2016	12 ft 10/18/2016	12 ft 10/18/2016
PAHs (µg/kg)												
1-Methylnaphthalene	17,600	72,700	--	<4.9	19.7	<4.5	<4.5	<4.5	3230	4.7 ^J	68	<4.5
2-Methylnaphthalene	239,000	3,010,000	--	<6.1	16.5 ^U	<5.5	<5.5	<5.6	7590	9.9 ^J	149	<5.7
Acenaphthene	3,590,000	45,200,000	--	<4.8	6.5 ^J	<4.3	<4.3	<4.4	<90.6	<4.4	<4.4	<4.4
Acenaphthylene	--	--	--	<4	<3.9	<3.6	<3.6	<3.7	<77	<3.7	<3.8	<3.7
Anthracene	17,900,000	100,000,000	196949.2	<7	<6.7	<6.3	<6.3	<6.4	<133	<6.4	<6.5	<6.5
Benzo(a)anthracene	1,140	20,800	--	<3.9	4.1 ^J	<3.5	<3.5 ^{UJ}	<3.6 ^{UJ}	<74.1 ^{UJ}	<3.6 ^{UJ}	<3.6 ^{UJ}	<3.6
Benzo(a)pyrene	115	2,110	470	<3.1	<3	<2.8	<2.8	<2.8	<58.7	<2.8	<2.9	<2.8
Benzo(b)fluoranthene	1,150	21,100	479.3	<3.5	6 ^J	<3.1	<3.1	<3.2	<65.9	<3.2	<3.2	<3.2
Benzo(g,h,i)perylene	--	--	--	<2.5	5 ^J	<2.2	<2.2	<2.3	<47.5	<2.3	<2.3	<2.3
Benzo(k)fluoranthene	11,500	211,000	--	<3.1	3 ^J	<2.8	<2.8	<2.8	<58.6	<2.8	<2.9	<2.8
Chrysene	115,000	2,110,000	144.6	<4.1	9.4 ^J	<3.7	<3.7	4 ^J	<78.7	<3.8	<3.8	6.8 ^J
Dibenz(a,h)anthracene	115	2,110	--	<2.7	<2.6	<2.5	<2.5	<2.5	<52.2	<2.5	<2.6	<2.5
Fluoranthene	2,390,000	30,100,000	88877.8	<6.4	11.4 ^J	<5.8	<5.8	<5.9	<122	<5.9	<5.9	<5.9
Fluorene	2,390,000	30,100,000	14829.9	<5.1	7 ^J	<4.6	<4.6	<4.7	<96.7	<4.7	<4.7	<4.7
Indeno(1,2,3-cd)pyrene	1,150	21,100	--	<2.7	2.9 ^J	<2.4	<2.4	<2.5	<51.4	<2.5	<2.5	<2.5
Naphthalene	5,520	24,100	658.2	<10.3	54.4	<9.3	<9.3	253	699 ^C	31.8	360	<9.5
Phenanthrene	--	--	--	<14.3	26.4 ^J	<12.9	<12.9	<13.1	<272	<13.1	<13.3	<13.2
Pyrene	1,790,000	22,600,000	54,546	<5.5	10 ^J	<5	<5	<5.1	<105	<5.1	<5.1	<5.1

Notes:

PAHs =Polynuclear Aromatic Hydrocarbons

ug/kg = Micrograms per kilogram. ^J = Estimated value.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

-- = No generic RCL established.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Planned PAH samples collected & analyzed from selected excavations are included on this table. Where excavations were extended and a sample area was removed the removed sample result is depicted in half-tone and labeled with the excavation date.

Table 4B
Group A Excavations
PAHs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E4L								
	Direct Contact Pathway		Groundwater Pathway	4L-B-8	4L-B-9	4L-B-10	4L-B-11	4L-SW-1	4L-SW-2	4L-SW-3	4L-SW-4	4L-SW-5
	Non-Industrial	Industrial		12 ft 10/19/2016	12 ft 11/21/2016	12 ft 11/21/2016	12 ft 11/21/2016	6 ft 10/17/2016	12 ft 10/17/2016	6 ft 10/17/2016	6 ft 10/18/2016	6 ft 10/18/2016
PAHs (µg/kg)												
1-Methylnaphthalene	17,600	72,700	--	4410	<4.5	<4.5	5620	391	76.6	24.9	<4.8	109
2-Methylnaphthalene	239,000	3,010,000	--	10500	<5.6	<5.5	12700	899	164	54.9	<5.9	226
Acenaphthene	3,590,000	45,200,000	--	<184	<4.3	<4.3	<91.3	<17.6	<4.5	<4.5	<4.6	<4.7
Acenaphthylene	--	--	--	<157	<3.7	<3.7	<77.5	<15	<3.8	<3.8	<3.9	<4
Anthracene	17,900,000	100,000,000	196949.2	<271	<6.4	<6.3	<134	<25.9	<6.6	<6.6	<6.8	<6.9
Benzo(a)anthracene	1,140	20,800	--	<151	<3.5	<3.5	<74.6	<14.4 ^{UJ}	<3.7	<3.7	<3.8	<3.9
Benzo(a)pyrene	115	2,110	470	<119	<2.8	<2.8	<59.1	<11.4	<2.9	<2.9	<3	<3.1
Benzo(b)fluoranthene	1,150	21,100	479.3	<134	<3.2	<3.1	<66.4	<12.8	<3.3	3.4 ^J	<3.4	<3.4
Benzo(g,h,i)perylene	--	--	--	<96.6	<2.3	<2.3	<47.8	<9.2	4 ^J	<2.4	<2.4	<2.5
Benzo(k)fluoranthene	11,500	211,000	--	<119	<2.8	<2.8	<59	<11.4	<2.9	<2.9	<3	<3.1
Chrysene	115,000	2,110,000	144.6	<160	4.3 ^J	4.3 ^J	<79.3	<15.3	9.1 ^J	4.1 ^J	<4	<4.1
Dibenz(a,h)anthracene	115	2,110	--	<106	<2.5	<2.5	<52.6	<10.1	<2.6	<2.6	<2.7	<2.7
Fluoranthene	2,390,000	30,100,000	88877.8	<247	<5.8	<5.8	<123	<23.6	<6	<6	<6.2	<6.3
Fluorene	2,390,000	30,100,000	14829.9	<197	<4.6	<4.6	<97.4	<18.8	<4.8	<4.8	<4.9	<5
Indeno(1,2,3-cd)pyrene	1,150	21,100	--	<104	<2.5	<2.4	<51.7	<10	<2.5	<2.5	<2.6	<2.7
Naphthalene	5,520	24,100	658.2	14,500 ^{AC}	<9.4	10.8 ^J	16,900 ^{AC}	1,210 ^C	381	143	<10	170
Phenanthrene	--	--	--	<554	<13	<12.9	<274	<52.8	<13.5	<13.5	<13.8	<14.2
Pyrene	1,790,000	22,600,000	54,546	<214	<5	<5	<106	<20.5	<5.2	<5.2	<5.4	<5.5

Notes:

PAHs =Polynuclear Aromatic Hydrocarbons

ug/kg = Micrograms per kilogram. ^J = Estimated value.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

-- = No generic RCL established.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Planned PAH samples collected & analyzed from selected excavations are included on this table. Where excavations were extended and a sample area was removed the removed sample result is depicted in half-tone and labeled with the excavation date.

Table 4B
Group A Excavations
PAHs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E4L								
	Direct Contact Pathway		Groundwater Pathway	4L-SW-6	4L-SW-7	4L-SW-8	4L-SW-9	4L-SW-10	4L-SW-11	4L-SW-12	4L-SW-13	4L-SW-14
	Non-Industrial	Industrial		6 ft 10/19/2016	6 ft 10/19/2016	6 ft 10/19/2016	6 ft 10/20/2016	6 ft 10/20/2016	6 ft 10/20/2016	6 ft 11/21/2016	6 ft 11/21/2016	6 ft 11/21/2016
PAHs (µg/kg)				Excavated 11-21-16	Excavated 11-21-16	Excavated 11-21-16						
1-Methylnaphthalene	17,600	72,700	--	2460	704	1750	703	388	<4.8	709	10.5 ^J	583
2-Methylnaphthalene	239,000	3,010,000	--	5520	1550	3950	1570	847	<6	1360	<6.1	1200
Acenaphthene	3,590,000	45,200,000	--	<87.4	<35	<43.9	<34.7	<19	<4.6	<18.1	12.1 ^J	<18.5
Acenaphthylene	--	--	--	<74.2	<29.7	<37.3	<29.5	<16.1	<3.9	<15.4	<4	<15.7
Anthracene	17,900,000	100,000,000	196949.2	<129	<51.5	<64.6	<51.1	<27.9	<6.8	<26.7	<7	<27.2
Benzo(a)anthracene	1,140	20,800	--	<71.4	<28.6	<35.9	<28.4	<15.5	<3.8	<14.8	<3.9	<15.1
Benzo(a)pyrene	115	2,110	470	<56.6	<22.6	<28.4	<22.5	<12.3	<3	<11.7	<3.1	<12
Benzo(b)fluoranthene	1,150	21,100	479.3	<63.6	<25.4	<32	<25.3	<13.8	<3.4	<13.2	<3.4	<13.5
Benzo(g,h,i)perylene	--	--	--	<45.8	<18.3	<23	<18.2	<9.9	<2.4	<9.5	2.6 ^J	<9.7
Benzo(k)fluoranthene	11,500	211,000	--	<56.5	<22.6	<28.4	<22.5	<12.3	<3	<11.7	<3.1	<12
Chrysene	115,000	2,110,000	144.6	<76	<30.4	<38.2	<30.2	<16.5	<4	<15.8	<4.1	<16.1
Dibenz(a,h)anthracene	115	2,110	--	<50.4	<20.2	<25.3	<20	<10.9	<2.7	<10.4	<2.7	<10.7
Fluoranthene	2,390,000	30,100,000	88877.8	<117	<46.9	<58.9	<46.6	<25.4	<6.2	<24.3	<6.3	<24.8
Fluorene	2,390,000	30,100,000	14829.9	<93.2	<37.3	<46.8	<37.1	<20.2	<4.9	<19.3	7.9 ^J	<19.7
Indeno(1,2,3-cd)pyrene	1,150	21,100	--	<49.5	<19.8	<24.9	<19.7	<10.7	<2.6	<10.3	<2.7	<10.5
Naphthalene	5,520	24,100	658.2	8,050 ^{AC}	2,260 ^C	5,680 ^{AC}	2,170 ^C	1,130 ^C	<10	1,560 ^C	23.6 ^J	1,740 ^C
Phenanthrene	--	--	--	<262	<105	<132	<104	<56.9	<13.9	<54.4	<14.2	<55.6
Pyrene	1,790,000	22,600,000	54,546	<102	<40.7	<51.1	<40.4	<22	<5.4	<21.1	<5.5	<21.5

Notes:

PAHs =Polynuclear Aromatic Hydrocarbons

µg/kg = Micrograms per kilogram. ^J = Estimated value.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

-- = No generic RCL established.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Planned PAH samples collected & analyzed from selected excavations are included on this table. Where excavations were extended and a sample area was removed the removed sample result is depicted in half-tone and labeled with the excavation date.

Table 4B
Group A Excavations
PAHs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E4L		E5L					E14L	
	Direct Contact Pathway		Groundwater Pathway	4L-SW-15	4L-SW-16	5L-B-1	5L-SW-1	5L-SW-2	5L-SW-3	5L-SW-4	14L-B-1	14L-B-2
	Non-Industrial	Industrial		6 ft 11/21/2016	6 ft 11/21/2016	4 ft 11/21/2016	2 ft 11/21/2016	2 ft 11/21/2016	2 ft 11/21/2016	2 ft 11/21/2016	12 ft 10/14/2016	12 ft 10/14/2016
PAHs (µg/kg)												
1-Methylnaphthalene	17,600	72,700	--	1260	282	<4.3	<4.3	19.8	<4.2	<4.2	15.5 ^J	8.8 ^J
2-Methylnaphthalene	239,000	3,010,000	--	2380	540	<5.4	<5.3	10.4 ^J	<5.2	<5.3	28.1	17.2 ^J
Acenaphthene	3,590,000	45,200,000	--	<44.1	<17.6	5.1 ^J	<4.1	<4.4	<4.1	<4.1	<4.7	<4.9
Acenaphthylene	--	--	--	<37.4	<15	6.8 ^J	<3.5	<3.7	<3.5	<3.5	<4	<4.2
Anthracene	17,900,000	100,000,000	196949.2	<64.8	<25.9	26.8	<6	<6.5	<6	<6	<6.9	<7.2
Benzo(a)anthracene	1,140	20,800	--	<36	<14.4	113	<3.4	7.2 ^J	4.6 ^J	25.3	11.5 ^J	<4
Benzo(a)pyrene	115	2,110	470	<28.5	<11.4	134 ^A	<2.7	6 ^J	5.2 ^J	41.7	11.2	<3.2
Benzo(b)fluoranthene	1,150	21,100	479.3	<32.1	<12.8	245	5.9 ^J	13.4	14	74.2	17.5	<3.6
Benzo(g,h,i)perylene	--	--	--	<23.1	<9.2	77.6	4.8 ^J	9.2	7.8	68.1	9.3	<2.6
Benzo(k)fluoranthene	11,500	211,000	--	<28.5	<11.4	87.6	3.2 ^J	5 ^J	5.8 ^J	31.1	8.7 ^J	<3.2
Chrysene	115,000	2,110,000	144.6	<38.3	<15.3	180 ^C	6 ^J	13.6	13.3	56.5	18.1	<4.3
Dibenz(a,h)anthracene	115	2,110	--	<25.4	<10.2	27.8	<2.4	<2.5	<2.3	12	<2.7	<2.8
Fluoranthene	2,390,000	30,100,000	88877.8	<59.1	<23.6	234	5.7 ^J	16.1 ^J	14 ^J	70.3	24.1	<6.6
Fluorene	2,390,000	30,100,000	14829.9	<47	<18.8	5.8 ^J	<4.4	<4.7	<4.3	<4.4	<5	<5.2
Indeno(1,2,3-cd)pyrene	1,150	21,100	--	<25	<10	81	3.8 ^J	6.3 ^J	5.4 ^J	48	7.2 ^J	<2.8
Naphthalene	5,520	24,100	658.2	2,870 ^C	1,370 ^C	<9.1	<8.9	<9.5	<8.8	<8.9	31.2 ^J	142
Phenanthrene	--	--	--	<132	<52.9	97.3	<12.3	27.8 ^J	<12.2	18 ^J	17.7 ^J	<14.7
Pyrene	1,790,000	22,600,000	54,546	<51.2	<20.5	198	<4.8	15.1 ^J	11.8 ^J	63.3	21.1	<5.7

Notes:

PAHs =Polynuclear Aromatic Hydrocarbons

ug/kg = Micrograms per kilogram. ^J = Estimated value.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

-- = No generic RCL established.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Planned PAH samples collected & analyzed from selected excavations are included on this table. Where excavations were extended and a sample area was removed the removed sample result is depicted in half-tone and labeled with the excavation date.

Table 4B
Group A Excavations
PAHs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E14L								E24B
	Direct Contact Pathway		Groundwater Pathway	14L-SW-1	14L-SW-2	14L-SW-3	14L-SW-4	14L-SW-5	14L-SW-6	14L-SW-7	14L-SW-8	24B-B-1
	Non-Industrial	Industrial		6 ft 10/11/2016	6 ft 10/11/2016	6 ft 10/12/2016	6 ft 10/12/2016	6 ft 10/14/2016	6 ft 10/14/2016	6 ft 10/14/2016	6 ft 10/14/2016	6 ft 10/14/2016
PAHs (µg/kg)												
1-Methylnaphthalene	17,600	72,700	--	375	<4.9	<4.9	<5	<5	484	1300	<4.9	5 ^J
2-Methylnaphthalene	239,000	3,010,000	--	784	<6.1	<6.1	<6.3	<6.2	624	2240	<6	9.7 ^J
Acenaphthene	3,590,000	45,200,000	--	<4.8	<4.7	<4.7	<4.8	<4.8	6 ^J	<35.4	<4.7	<4.7
Acenaphthylene	--	--	--	<4.1	<4	<4	<4.1	<4.1	<3.9	<30.1	<4	<4
Anthracene	17,900,000	100,000,000	196949.2	<7.1	<7	<6.9	<7.1	<7.1	<6.8	<52.1	<6.9	<6.9
Benzo(a)anthracene	1,140	20,800	--	<3.9	<3.9	<3.8	<4	<3.9	<3.8	<28.9	<3.8	<3.8
Benzo(a)pyrene	115	2,110	470	<3.1	<3.1	<3	<3.1	<3.1	<3	<22.9	<3	<3
Benzo(b)fluoranthene	1,150	21,100	479.3	<3.5	3.8 ^J	<3.4	<3.5	<3.5	<3.4	<25.8	<3.4	<3.4
Benzo(g,h,i)perylene	--	--	--	<2.5	3.2 ^J	<2.5	<2.5	<2.5	<2.4	<18.5	<2.5	<2.5
Benzo(k)fluoranthene	11,500	211,000	--	<3.1	<3.1	<3	<3.1	<3.1	<3	<22.9	<3	<3
Chrysene	115,000	2,110,000	144.6	<4.2	6.5 ^J	<4.1	<4.2	<4.2	<4	<30.8	<4.1	<4.1
Dibenz(a,h)anthracene	115	2,110	--	<2.8	<2.7	<2.7	<2.8	<2.8	<2.7	<20.4	<2.7	<2.7
Fluoranthene	2,390,000	30,100,000	88877.8	<6.5	<6.4	<6.3	<6.5	<6.5	<6.2	<47.5	<6.3	<6.3
Fluorene	2,390,000	30,100,000	14829.9	<5.1	<5.1	<5	<5.2	<5.1	5.1 ^J	<37.8	<5	<5
Indeno(1,2,3-cd)pyrene	1,150	21,100	--	<2.7	<2.7	<2.7	<2.7	<2.7	<2.6	<20.1	<2.7	<2.7
Naphthalene	5,520	24,100	658.2	812 ^C	<10.3	13.1 ^J	<10.5	<10.5	500	2,440 ^C	<10.2	20.9 ^J
Phenanthrene	--	--	--	<14.5	<14.2	<14.1	<14.6	<14.5	18.1 ^J	<106	<14.1	<14.1
Pyrene	1,790,000	22,600,000	54,546	<5.6	<5.5	<5.5	<5.6	<5.6	<5.4	<41.2	<5.5	<5.4

Notes:

PAHs =Polynuclear Aromatic Hydrocarbons

ug/kg = Micrograms per kilogram. ^J = Estimated value.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

-- = No generic RCL established.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Planned PAH samples collected & analyzed from selected excavations are included on this table. Where excavations were extended and a sample area was removed the removed sample result is depicted in half-tone and labeled with the excavation date.

Table 4B
Group A Excavations
PAHs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E24B								
	Direct Contact Pathway		Groundwater Pathway	24B-B-2	24B-B-3	24B-B-4	24B-B-5	24B-B-6	24B-B-7	24B-B-8	24B-SW-1	24B-SW-2
	Non-Industrial	Industrial		12 ft 10/24/2016	12 ft 10/25/2016	12 ft 10/25/2016	12 ft 10/27/2016	12 ft 11/3/2016	12 ft 11/30/2016	12 ft 4/20/2017	6 ft 10/24/2016	6 ft 10/24/2016
PAHs (µg/kg)												
1-Methylnaphthalene	17,600	72,700	--	413	<4.6	9.4 ^J	415	122	<5	<5.0	21.3	484
2-Methylnaphthalene	239,000	3,010,000	--	37.9	<5.7	14.7 ^J	196	105	<6.3	<6.3	<5.8	1060
Acenaphthene	3,590,000	45,200,000	--	<4.9	<4.4	<4.7	44.5 ^J	<18.4	<4.9	<4.9	<4.5	<18.6
Acenaphthylene	--	--	--	<4.1	<3.8	<4	<19	<15.6	<4.1	<4.1	<3.8	<15.8
Anthracene	17,900,000	100,000,000	196949.2	<7.2	<6.5	<7	<32.9	<27	<7.2	<7.2	<6.6	<27.4
Benzo(a)anthracene	1,140	20,800	--	<4	<3.6	<3.9	<18.3	<15	<4	<4.0	<3.7	<15.2
Benzo(a)pyrene	115	2,110	470	<3.1	<2.9	<3.1	<14.5	<11.9	<3.2	<3.1	<2.9	<12
Benzo(b)fluoranthene	1,150	21,100	479.3	<3.5	<3.2	<3.4	<16.3	<13.4	<3.5	<3.5	<3.3	<13.5
Benzo(g,h,i)perylene	--	--	--	<2.5	<2.3	<2.5	<11.7	<9.6	<2.6	<2.5	<2.4	<9.7
Benzo(k)fluoranthene	11,500	211,000	--	<3.1	<2.9	<3.1	<14.5	<11.9	<3.1	<3.1	<2.9	<12
Chrysene	115,000	2,110,000	144.6	<4.2	4.7 ^J	9.1 ^J	<19.4	<16	<4.2	<4.2	<3.9	<16.2
Dibenz(a,h)anthracene	115	2,110	--	<2.8	<2.6	<2.7	<12.9	<10.6	<2.8	<2.8	<2.6	<10.7
Fluoranthene	2,390,000	30,100,000	88877.8	<6.5	<6	<6.3	35.5 ^J	<24.7	<6.5	<6.5	<6.1	<25
Fluorene	2,390,000	30,100,000	14829.9	<5.2	<4.7	<5	31.3 ^J	<19.6	<5.2	<5.2	<4.8	<19.9
Indeno(1,2,3-cd)pyrene	1,150	21,100	--	<2.8	<2.5	<2.7	<12.7	<10.4	<2.8	<2.8	<2.6	<10.5
Naphthalene	5,520	24,100	658.2	117	<9.6	14.3 ^J	1,300 ^C	1,670 ^C	27.3 ^J	<10.5	15.6 ^J	1,270 ^C
Phenanthrene	--	--	--	<14.6	<13.3	<14.2	<67.1	<55.2	<14.6	<14.6	<13.6	<55.9
Pyrene	1,790,000	22,600,000	54,546	<5.6	<5.2	<5.5	28.3 ^J	<21.4	<5.7	<5.7	<5.3	<21.6

Notes:

PAHs =Polynuclear Aromatic Hydrocarbons

ug/kg = Micrograms per kilogram. ^J = Estimated value.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

-- = No generic RCL established.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Planned PAH samples collected & analyzed from selected excavations are included on this table. Where excavations were extended and a sample area was removed the removed sample result is depicted in half-tone and labeled with the excavation date.

Table 4B
Group A Excavations
PAHs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E24B								
	Direct Contact Pathway		Groundwater Pathway	24B-SW-3	24B-SW-4	24B-SW-5	24B-SW-6	24B-SW-7	24B-SW-8	24B-SW-9	24B-SW-10	24B-SW-11
	Non-Industrial	Industrial		6 ft 10/24/2016	6 ft 10/25/2016	6 ft 10/25/2016	6 ft 10/25/2016	6 ft 10/25/2016	6 ft 10/25/2016	6 ft 10/25/2016	6 ft 10/25/2016	6 ft 10/27/2016
PAHs (µg/kg)												
1-Methylnaphthalene	17,600	72,700	--	4010	5.7 ^J	283	422	81.1	<4.9	<4.9	127	34.3
2-Methylnaphthalene	239,000	3,010,000	--	9040	<6.2	741	954	17.8 ^J	<6.1	<6.1	335	<5.9
Acenaphthene	3,590,000	45,200,000	--	<174	<4.8	<19.8	<23.5	<5	<4.8	<4.7	<4.8	<4.5
Acenaphthylene	--	--	--	<148	<4.1	<16.8	<19.9	<4.2	<4	<4	<4	<3.9
Anthracene	17,900,000	100,000,000	196949.2	<256	<7	<29.2	<34.5	<7.4	<7	<6.9	<7	<6.7
Benzo(a)anthracene	1,140	20,800	--	<142	<3.9	<16.2	<19.2	<4.1	<3.9	<3.9	<3.9	<3.7
Benzo(a)pyrene	115	2,110	470	<113	<3.1	<12.8	<15.2	<3.2	<3.1	<3.1	<3.1	<2.9
Benzo(b)fluoranthene	1,150	21,100	479.3	<127	<3.5	<14.4	<17.1	<3.6	<3.5	<3.4	<3.5	<3.3
Benzo(g,h,i)perylene	--	--	--	<91.1	<2.5	<10.4	<12.3	<2.6	<2.5	<2.5	<2.5	<2.4
Benzo(k)fluoranthene	11,500	211,000	--	<113	<3.1	<12.8	<15.2	<3.2	<3.1	<3.1	<3.1	<2.9
Chrysene	115,000	2,110,000	144.6	<151	<4.2	<17.2	<20.4	<4.3	<4.1	<4.1	<4.1	<4
Dibenz(a,h)anthracene	115	2,110	--	<100	<2.8	<11.4	<13.5	<2.9	<2.7	<2.7	<2.7	<2.6
Fluoranthene	2,390,000	30,100,000	88877.8	<234	<6.4	<26.6	<31.5	<6.7	<6.4	<6.3	<6.4	<6.1
Fluorene	2,390,000	30,100,000	14829.9	<186	<5.1	<21.2	<25	<5.3	<5.1	<5	<5.1	<4.8
Indeno(1,2,3-cd)pyrene	1,150	21,100	--	<98.6	<2.7	<11.2	<13.3	<2.8	<2.7	<2.7	<2.7	<2.6
Naphthalene	5,520	24,100	658.2	9,530^{AC}	47.1	1,520^C	1,550^C	39.7	<10.3	<10.2	911^C	21.4 ^J
Phenanthrene	--	--	--	<522	<14.4	<59.5	<70.5	<15	<14.3	<14.2	<14.3	<13.6
Pyrene	1,790,000	22,600,000	54,546	<202	<5.6	<23.1	<27.3	<5.8	<5.5	<5.5	<5.5	<5.3

Notes:

PAHs =Polynuclear Aromatic Hydrocarbons

ug/kg = Micrograms per kilogram. ^J = Estimated value.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

-- = No generic RCL established.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Planned PAH samples collected & analyzed from selected excavations are included on this table. Where excavations were extended and a sample area was removed the removed sample result is depicted in half-tone and labeled with the excavation date.

Table 4B
Group A Excavations
PAHs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E24B								E26L
	Direct Contact Pathway		Groundwater Pathway	24B-SW-12	24B-SW-13	24B-SW-14	24B-SW-15	24B-SW-16	24B-SW-17	24B-SW-18	24B-SW-19	26L-B-1
	Non-Industrial	Industrial		6 ft 10/27/2016	6 ft 11/2/2016	6 ft 11/3/2016	6 ft 11/29/2016	6 ft 11/30/2016	6 ft 4/20/2017	6 ft 4/20/2017	6 ft 5/12/2017	12 ft 10/27/2016
PAHs (µg/kg)					Excavated 04-20-17		Excavated 04-20-17		Excavated 05-12-17			
1-Methylnaphthalene	17,600	72,700	--	1590	224	370	451	<5.1	233	4600	305	5.3 ^J
2-Methylnaphthalene	239,000	3,010,000	--	3640	579	903	828	<6.4	549	10100	708	<6
Acenaphthene	3,590,000	45,200,000	--	<42.3	<4.8	<19.3	<10.1	<5	<4.9	<115	<9.5	<4.7
Acenaphthylene	--	--	--	<36	<4.1	<16.4	<8.6	<4.2	<4.2	<97.6	<8.0	<4
Anthracene	17,900,000	100,000,000	196949.2	90.1 ^J	<7.1	<28.4	<14.9	<7.3	<7.2	<169	<13.9	<6.9
Benzo(a)anthracene	1,140	20,800	--	154	<4	<15.8	<8.3	<4.1	<4.0	<93.9	<7.7	<3.8
Benzo(a)pyrene	115	2,110	470	97.8	<3.1	<12.5	<6.5	<3.2	<3.2	<74.4	<6.1	<3
Benzo(b)fluoranthene	1,150	21,100	479.3	111	<3.5	<14	<7.4	<3.6	<3.6	<83.6	<6.9	<3.4
Benzo(g,h,i)perylene	--	--	--	30.2 ^J	<2.5	<10.1	8.9 ^J	<2.6	<2.6	<60.2	<5.0	<2.5
Benzo(k)fluoranthene	11,500	211,000	--	56.8 ^J	<3.1	<12.5	<6.5	<3.2	<3.2	<74.3	<6.1	<3
Chrysene	115,000	2,110,000	144.6	160 ^C	<4.2	<16.8	<8.8	<4.3	<4.3	<99.9	<8.2	<4.1
Dibenz(a,h)anthracene	115	2,110	--	<24.4	<2.8	<11.1	<5.8	<2.9	<2.8	<66.2	<5.5	<2.7
Fluoranthene	2,390,000	30,100,000	88877.8	339	<6.5	<25.9	<13.6	<6.7	<6.6	<154	<12.7	<6.3
Fluorene	2,390,000	30,100,000	14829.9	64 ^J	<5.2	<20.6	<10.8	<5.3	<5.2	<123	<10.1	<5
Indeno(1,2,3-cd)pyrene	1,150	21,100	--	29.6 ^J	<2.7	<10.9	6.5 ^J	<2.8	<2.8	<65.1	<5.4	<2.7
Naphthalene	5,520	24,100	658.2	4,410 ^C	917 ^C	1,380 ^C	1,230 ^C	<10.8	871 ^C	10,800 ^{AC}	1,010 ^C	70.6
Phenanthrene	--	--	--	374 ^J	<14.5	<57.9	<30.4	<14.9	<14.7	<345	<28.4	<14.1
Pyrene	1,790,000	22,600,000	54,546	296	<5.6	<22.4	<11.8	<5.8	<5.7	<134	<11.0	<5.5

Notes:

PAHs =Polynuclear Aromatic Hydrocarbons

ug/kg = Micrograms per kilogram. ^J = Estimated value.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

-- = No generic RCL established.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Planned PAH samples collected & analyzed from selected excavations are included on this table. Where excavations were extended and a sample area was removed the removed sample result is depicted in half-tone and labeled with the excavation date.

Table 4B
Group A Excavations
PAHs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E26L								E34L
	Direct Contact Pathway		Groundwater Pathway	26-B-2	26-SW-1	26-SW-2	26-SW-3	26-SW-4	26-SW-5	26-SW-6	26L-SW-7	34L-B-1
	Non-Industrial	Industrial		12 ft 10/28/2016	6 ft 10/27/2016	6 ft 10/27/2016	6 ft 10/27/2016	6 ft 10/28/2016	6 ft 10/28/2016	6 ft 10/28/2016	6 ft 11/30/2016	12 ft 11/16/2016
PAHs (µg/kg)							Excavated 11-30-17					
1-Methylnaphthalene	17,600	72,700	--	997	<5	<5	178	49.7	95.9	<5.3	<5	837
2-Methylnaphthalene	239,000	3,010,000	--	1670	<6.2	<6.3	321	116	283	<6.6	<6.2	<58
Acenaphthene	3,590,000	45,200,000	--	<45.4	<4.8	<4.9	<5.1	<4.9	<4.8	<5.1	<4.8	205
Acenaphthylene	--	--	--	<38.6	<4.1	<4.1	<4.3	<4.2	<4.1	<4.3	<4.1	71.1 ^U
Anthracene	17,900,000	100,000,000	196949.2	<66.9	<7	<7.2	<7.5	<7.3	<7	<7.5	<7	366
Benzo(a)anthracene	1,140	20,800	--	<37.1	<3.9	<4	<4.2	<4	<3.9	<4.2	<3.9	91.9 ^J
Benzo(a)pyrene	115	2,110	470	<29.4	<3.1	<3.1	<3.3	<3.2	<3.1	<3.3	<3.1	31.7 ^J
Benzo(b)fluoranthene	1,150	21,100	479.3	<33.1	<3.5	<3.5	<3.7	<3.6	<3.5	<3.7	<3.5	52 ^J
Benzo(g,h,i)perylene	--	--	--	<23.8	<2.5	<2.5	<2.7	<2.6	<2.5	<2.7	<2.5	37.2 ^J
Benzo(k)fluoranthene	11,500	211,000	--	<29.4	<3.1	<3.1	<3.3	<3.2	<3.1	<3.3	<3.1	<29.1
Chrysene	115,000	2,110,000	144.6	<39.5	<4.2	<4.2	<4.4	<4.3	<4.2	<4.4	<4.1	479 ^C
Dibenz(a,h)anthracene	115	2,110	--	<26.2	<2.8	<2.8	<2.9	<2.8	<2.8	<2.9	<2.8	<25.9
Fluoranthene	2,390,000	30,100,000	88877.8	<61	<6.4	<6.5	<6.9	<6.6	<6.4	<6.8	<6.4	220
Fluorene	2,390,000	30,100,000	14829.9	<48.5	<5.1	<5.2	<5.5	<5.3	<5.1	<5.4	<5.1	317
Indeno(1,2,3-cd)pyrene	1,150	21,100	--	<25.7	<2.7	<2.8	<2.9	<2.8	<2.7	<2.9	<2.7	<25.5
Naphthalene	5,520	24,100	658.2	3,110 ^C	<10.4	<10.5	234	273	298	<11	<10.4	183 ^J
Phenanthrene	--	--	--	<136	<14.3	<14.6	<15.3	<14.8	<14.4	<15.3	<14.3	995
Pyrene	1,790,000	22,600,000	54,546	<52.8	<5.6	<5.7	<5.9	<5.7	<5.6	<5.9	<5.6	482

Notes:

PAHs =Polynuclear Aromatic Hydrocarbons

ug/kg = Micrograms per kilogram. ^J = Estimated value.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

-- = No generic RCL established.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Planned PAH samples collected & analyzed from selected excavations are included on this table. Where excavations were extended and a sample area was removed the removed sample result is depicted in half-tone and labeled with the excavation date.

Table 4B
Group A Excavations
PAHs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E34L				E36L				
	Direct Contact Pathway		Groundwater Pathway	34L-SW-1	34L-SW-2	34L-SW-3	34L-SW-4	36L-B-1	36L-SW-1	36L-SW-2	36L-SW-3	36L-SW-4
	Non-Industrial	Industrial		6 ft 11/16/2016	6 ft 11/16/2016	6 ft 11/16/2016	6 ft 11/16/2016	4 ft 11/10/2016	2 ft 11/10/2016	2 ft 11/10/2016	2 ft 11/10/2016	2 ft 11/10/2016
PAHs (µg/kg)												
1-Methylnaphthalene	17,600	72,700	--	<47.7	<108	52.6 ^U	<23.9	19.9	74.7	<6.7	<4.3	<4.4
2-Methylnaphthalene	239,000	3,010,000	--	<59.3	<134	<29.4	<29.7	23.8	59.7 ^J	<8.3	<5.3	<5.5
Acenaphthene	3,590,000	45,200,000	--	76.7 ^J	<104	<22.8	<23	5.6 ^J	34.1 ^J	<6.5	<4.1	<4.3
Acenaphthylene	--	--	--	<39.1	<88.5	<19.3	<19.6	67.9	168	<5.5	<3.5	<3.6
Anthracene	17,900,000	100,000,000	196949.2	148 ^J	<153	<33.5	<33.9	62.5	285	<9.5	<6.1	<6.3
Benzo(a)anthracene	1,140	20,800	--	61.6 ^J	<85.1	<18.6	<18.8	175	913	20.9	3.7 ^J	6.3 ^J
Benzo(a)pyrene	115	2,110	470	<29.8	<67.4	<14.7	<14.9	179 ^A	817 ^{AC}	16.1	<2.7	6.1 ^J
Benzo(b)fluoranthene	1,150	21,100	479.3	<33.5	<75.8	<16.6	<16.8	295	1,140 ^C	26.1	4.5 ^J	11.7
Benzo(g,h,i)perylene	--	--	--	27.4 ^J	56.4 ^J	<11.9	<12.1	125	439	10.1 ^J	3.8 ^J	6.5 ^J
Benzo(k)fluoranthene	11,500	211,000	--	<29.8	<67.3	<14.7	<14.9	111	398	10.8 ^J	<2.7	5.5 ^J
Chrysene	115,000	2,110,000	144.6	259 ^C	197 ^{JC}	<19.8	<20	173 ^C	777 ^C	22.6	6.4 ^J	7.3 ^J
Dibenz(a,h)anthracene	115	2,110	--	<26.5	<60	<13.1	<13.3	45	146 ^A	<3.7	<2.4	<2.5
Fluoranthene	2,390,000	30,100,000	88877.8	<61.8	<140	<30.6	<30.9	256	1,710	36.7	<5.6	8.1 ^J
Fluorene	2,390,000	30,100,000	14829.9	108 ^J	<111	27.1 ^J	<24.6	7.6 ^J	29.3 ^J	<6.9	<4.4	<4.6
Indeno(1,2,3-cd)pyrene	1,150	21,100	--	<26.1	<59	<12.9	<13.1	117	397	8.1 ^J	<2.3	4.4 ^J
Naphthalene	5,520	24,100	658.2	<99.9	<226	<49.4	<50	22 ^J	46.2 ^J	<14	<9	<9.3
Phenanthrene	--	--	--	<138	<313	<68.4	<69.2	113	734	<19.4	<12.4	<12.9
Pyrene	1,790,000	22,600,000	54,546	279	159 ^J	<26.5	29.5 ^J	243	1,250	30.9	5.1 ^J	6.7 ^J

Notes:

PAHs =Polynuclear Aromatic Hydrocarbons

µg/kg = Micrograms per kilogram. ^J = Estimated value.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

-- = No generic RCL established.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Planned PAH samples collected & analyzed from selected excavations are included on this table. Where excavations were extended and a sample area was removed the removed sample result is depicted in half-tone and labeled with the excavation date.

Table 4B
Group A Excavations
PAHs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E47B					
	Direct Contact Pathway		Groundwater Pathway	47B-B-1	47B-SW-1	47B-SW-2	47B-SW-3	47B-SW-4	47B-SW-5
	Non-Industrial	Industrial		10 ft 12/8/2016	5 ft 12/8/2016	5 ft 12/8/2016	5 ft 12/8/2016	5 ft 12/8/2016	5 ft 4/21/2017
PAHs (µg/kg)						Excavated 04-21-17			
1-Methylnaphthalene	17,600	72,700	--	<4.7	<4.9	181 ^J	11.8 ^J	<4.8	<4.8
2-Methylnaphthalene	239,000	3,010,000	--	<5.9	<6.1	204 ^J	<5.9	<5.9	<6.0
Acenaphthene	3,590,000	45,200,000	--	<4.5	<4.8	2,120	135	<4.6	<4.7
Acenaphthylene	--	--	--	<3.9	<4	<83.2	<3.9	<3.9	<4.0
Anthracene	17,900,000	100,000,000	196949.2	<6.7	<7	3,250	207	7.5 ^J	<6.8
Benzo(a)anthracene	1,140	20,800	--	<3.7	27.4	4,090 ^A	172	9.3 ^J	6.6 ^J
Benzo(a)pyrene	115	2,110	470	<2.9	20.8	4,690 ^{ABC}	119 ^A	<3	6.3 ^J
Benzo(b)fluoranthene	1,150	21,100	479.3	<3.3	49.6	6,650 ^{AC}	247	15.8	5.5 ^J
Benzo(g,h,i)perylene	--	--	--	<2.4	29.9	3,040	108	10.4	<2.4
Benzo(k)fluoranthene	11,500	211,000	--	<2.9	21.4	2,640	96.7	8.4 ^J	6.7 ^J
Chrysene	115,000	2,110,000	144.6	4.4 ^J	38.1	5,480 ^C	260 ^C	18.9	7.4 ^J
Dibenz(a,h)anthracene	115	2,110	--	<2.6	7.4 ^J	813 ^A	28.4	<2.6	<2.7
Fluoranthene	2,390,000	30,100,000	88877.8	<6.1	49	13,400	859	31.1	16.3 ^J
Fluorene	2,390,000	30,100,000	14829.9	<4.8	<5.1	2,100	187	<4.9	<5.0
Indeno(1,2,3-cd)pyrene	1,150	21,100	--	<2.6	24.9	2,710 ^A	94.5	7.5 ^J	<2.6
Naphthalene	5,520	24,100	658.2	<9.9	<10.3	808 ^C	<9.9	<9.9	<10.1
Phenanthrene	--	--	--	<13.6	17.4 ^J	13,000	973	27.5 ^J	<14.0
Pyrene	1,790,000	22,600,000	54,546	<5.3	35.8	9300	706	19.9	13 ^J

Notes:

PAHs =Polynuclear Aromatic Hydrocarbons

ug/kg = Micrograms per kilogram. ^J = Estimated value.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

-- = No generic RCL established.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Planned PAH samples collected & analyzed from selected excavations are included on this table. Where excavations were extended and a sample area was removed the removed sample result is depicted in half-tone and labeled with the excavation date.

Table 4C
Group A Excavations
Arsenic in Verification Soil Samples
Former Kenosha Engine Plant

				Arsenic (mg/kg)
Direct Contact Pathway Non-Industrial				0.677
Direct Contact Pathway Industrial				3.0
Groundwater Pathway				0.6
Background Threshold Value				8
Location	Field ID	Depth	Sample Date	
E48M	48M-B-1	4 ft	11/10/2016	2.6 ^{JAC}
Excavated 5/12/17	48M-SW-1	2 ft	11/10/2016	36.7 ^{ABC}
	48M-SW-2	2 ft	11/10/2016	70.7 ^{ABC}
	48M-SW-3	2 ft	11/10/2016	8.0 ^{ABC}
	48M-SW-4	2 ft	11/10/2016	12.3 ^{ABC}
	48M-SW-5	2 ft	5/12/2017	24 ^{ABC}
Excavated 6/2/17	48M-SW-6	2 ft	5/12/2017	518 ^{ABC}
	48M-SW-7	2 ft	5/12/2017	18.5 ^{ABC}
	48M-SW-8	2 ft	5/12/2017	6.1 ^{JABC}
	48M-SW-9	2 ft	6/2/2017	168 ^{RABC}
E49M	49M-B-1	4 ft	11/10/2016	3.2 ^{JABC}
	49M-SW-1	2 ft	11/10/2016	4.9 ^{JABC}
Excavated 5/12/17	49M-SW-2	2 ft	11/10/2016	9.2 ^{ABC}
	49M-SW-3	2 ft	11/10/2016	26.6 ^{ABC}
	49M-SW-4	2 ft	11/10/2016	32.5 ^{ABC}
Excavated 6/2/17	49M-SW-5	2 ft	5/12/2017	326 ^{ABC}
	49M-SW-6	2 ft	5/12/2017	46 ^{ABC}
	49M-SW-7	2 ft	5/12/2017	423 ^{ABC}
	49M-SW-8	2 ft	6/2/2017	33.3 ^{ABC}
	49M-SW-9	2 ft	6/2/2017	14.8 ^{ABC}

Notes:

mg/kg = Milligrams per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated value.

^R = Rejected value; see data validation memo.

-- = No generic RCL established.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Table 2
E11T Laboratory Analytical Results
Detected VOCS in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E11T										
	Direct Contact Pathway		Groundwater Pathway	11T-B-1	11T-B-2	11T-B-3	11T-B-4	11T-B-5	11T-B-6	11T-SW-1	11T-SW-2	11T-SW-3	11T-SW-4	11T-SW-5
	Non-Industrial	Industrial		12 ft	12 ft	12 ft	12 ft	12 ft	10 ft	6 ft	6 ft	6 ft	6 ft	6 ft
			10/13/2016	10/13/2016	10/13/2016	5/9/2017	5/9/2017	7/23/2018	10/13/2016	10/13/2016	10/13/2016	10/13/2016	10/13/2016	
VOCs (µg/kg)											Excavated 05-09-17		Excavated 05-09-17	
1,1,1-Trichloroethane	640,000	640,000	140.2	<30.1	<43.1	<30.5	<25.0	<25.0	<25.0	<25	<32.9	<35.2	<31.2	<27.8
Methylene Chloride	61,800	1,150,000	2.6	<30.1	<43.1	<30.5	<25.0	<25.0	44.9 ^{JbC}	<25	<32.9	<35.2	<31.2	<27.8
Trichloroethene	1,300	8,410	3.6	<30.1	<43.1	<30.5	<25.0	<25.0	882 ^C	<25	271^C	3,000^{AC}	980^C	1,300^{AC}

VOCs = Volatile Organic Compounds µg/kg = Micrograms per kilogram

-- = No generic RCL established.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated value.

^{Jb} = Also detected in the method blank.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Samples collected & analyzed for VOCs are included on this table.

Where excavations were extended and the area of a sample result was removed, it is shown in half-tone and labeled with the excavation date.

Table 2
E11T Laboratory Analytical Results
Detected VOCS in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E11T									
	Direct Contact Pathway		Groundwater Pathway	11T-SW-6	11T-SW-7	11T-SW-8	11T-SW-8B	11T-SW-9	11T-SW-10	11T-SW-11	11T-SW-12	11T-SW-13	11T-SW-14
	Non-Industrial	Industrial		6 ft 10/13/2016	6 ft 10/13/2016	6 ft 10/13/2016	6 ft 5/9/2017	6 ft 5/9/2017	6 ft 6/28/2017	6 ft 6/28/2017	6 ft 6/28/2017	6 ft 6/28/2017	6 ft 7/23/2018
VOCs (µg/kg)							Excavated 05-09-17			Excavated 09-12-18	Excavated 09-12-18		
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<39.1	<29.1	<25.0	107	127	35.7 ^J	<25.0	<25.0	<25.0
Methylene Chloride	61,800	1,150,000	2.6	<25	<39.1	<29.1	<25.0	<25.0	<25.0	<25.0	<25.0	53.7 ^{JbC}	50.1 ^{JbC}
Trichloroethene	1,300	8,410	3.6	243^C	<39.1	<29.1	2,740^{AC}	522^C	779^C	6,240^{AC}	2,780^{AC}	90.5 ^C	39.7 ^{JC}

VOCs = Volatile Organic Compounds µg/kg = Micrograms per kiloc

-- = No generic RCL established.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contac

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated value.

^{Jb} = Also detected in the method blank.

Generic RCLs March 2017 per WDNR PUB-RR-890.

Samples collected & analyzed for VOCs are included on this table. Where excavations were extended and the area of a sample result was removed, it is shown in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E6T									
	Direct Contact Pathway		Groundwater Pathway	6T-B-1	6T-B-2	6T-B-3	6T-B-4	6T-SW-1	6T-SW-2	6T-SW-3	6T-SW-4	6T-SW-5	6T-SW-6
	Non-Industrial	Industrial		10 ft 10/21/2016	10 ft 12/9/2016	10 ft 4/21/2017	10 ft 5/31/2017	5 ft 10/21/2016	5 ft 10/21/2016	5 ft 10/21/2016	5 ft 10/24/2016	5 ft 12/9/2016	5 ft 12/9/2016
VOCs (µg/kg)								Excavated 12-9-16			Excavated 12-7-16	Excavated 04-21-17	
1,1,1-Trichloroethane	640,000	640,000	140.2	<62.5	<100	<25.0	<25.0	<25	<33.3	<25	<241	<125	<25
1,1,2-Trichloroethane	1,590	7,010	3.2	<62.5	<100	<25.0	<25.0	<25	<33.3	<25	<241	<125	<25
1,1-Dichloroethane	5,060	22,200	483.40	<62.5	<100	<25.0	<25.0	<25	<33.3	<25	<241	<125	<25
1,1-Dichloroethene	320,000	1,190,000	5	<62.5	<100	<25.0	105^C	<25	<33.3	<25	<241	<125	<25
1,2,4-Trichlorobenzene	24,000	113,000	408	<119	<190	<47.6	<47.6	<47.6	<63.4	<47.6	<458	<238	<47.6
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<62.5	<100	<25.0	<25.0	<25	<33.3	<25	<241	<125	<25
1,2-Dichlorobenzene	376,000	376,000	1168	<62.5	<100	<25.0	<25.0	<25	<33.3	<25	<241	<125	<25
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<62.5	<100	<25.0	<25.0	<25	<33.3	<25	<241	<125	<25
1,3-Dichlorobenzene	297,000	297,000	1152.8	<62.5	<100	<25.0	<25.0	<25	<33.3	<25	<241	<125	<25
1,4-Dichlorobenzene	3,740	16,400	144	<62.5	<100	<25.0	<25.0	<25	<33.3	<25	<241	<125	<25
Benzene	1,600	7,070	5.1	<62.5	<100	<25.0	30.0^{JC}	<25	<33.3	<25	<241	<125	<25
Chlorobenzene	370,000	761,000	136	<62.5	<100	<25.0	<25.0	<25	<33.3	<25	<241	<125	<25
Chloroform	454	1,980	3.3	<116	<186	<46.4	<46.4	<46.4	<61.9	<46.4	<448	<232	<46.4
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	1450^C	5530^C	<25.0	9220^C	<25	<33.3	<25	<241	<125	<25
Ethylbenzene	8,020	35,400	1570	<62.5	<100	<25.0	<25.0	<25	<33.3	<25	<241	<125	<25
Hexachlorobutadiene	1,630	7,190	--	<62.5	<100	<25.0	<25.0	<25	<33.3	<25	<241	<125	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<62.5	<100	<25.0	<25.0	<25	<33.3	<25	<241	<125	<25
Methylene Chloride	61,800	1,150,000	2.6	<62.5	<100	<25.0	<25.0	<25	<33.3	<25	<241	<125	<25
n-Butylbenzene	108,000	108,000	--	<62.5	<100	<25.0	<25.0	<25	<33.3	<25	<241	<125	<25
n-Propylbenzene	264,000	264,000	--	<62.5	<100	<25.0	<25.0	<25	<33.3	<25	<241	<125	<25
Naphthalene	5,520	24,100	658.2	<100	<160	<40.0	<40.0	<40	3720^C	<40	<386	319 ^J	<40
p-Isopropyltoluene	162,000	162,000	--	<62.5	<100	<25.0	<25.0	<25	<33.3	<25	<241	<125	<25
sec-Butylbenzene	145,000	145,000	--	<62.5	<100	<25.0	<25.0	<25	<33.3	<25	<241	<125	<25
tert-Butylbenzene	183,000	183,000	--	<62.5	<100	<25.0	<25.0	<25	<33.3	<25	<241	<125	<25
Tetrachloroethene	33,000	145,000	4.5	<62.5	<100	<25.0	<25.0	<25	<33.3	<25	<241	172^{JBC}	<25
Toluene	818,000	818,000	1107.2	<62.5	<100	<25.0	<25.0	<25	<33.3	<25	<241	<125	<25
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	212^C	699^C	<25.0	957^C	<25	<33.3	<25	<241	<125	<25
Trichloroethene	1,300	8,410	3.6	6340^{AC}	12500^{ABC}	<25.0	5910^{AC}	36.6^{JC}	<33.3	757^C	29300^{ABC}	18200^{ABC}	557^C
Vinyl chloride	67	2,080	0.1	<62.5	154^{JAC}	<25.0	139^{AC}	<25	<33.3	<25	<241	<125	<25
Xylene (Total)	260,000	260,000	3,960	<188	<300	<75.0	<75.0	<75	<100	<75	<723	<375	<75

Notes: VOCs = Volatile Organic Compounds

ug/kg = Micrograms per kilogram. -- = No generic RCL established.

^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E6T								E7T	
	Direct Contact Pathway		Groundwater Pathway	6T-SW-7	6T-SW-8	6T-SW-9	6T-SW-10	6T-SW-11	6T-SW-12	6T-SW-13	6T-SW-14	7T-B-1	7T-B-2
	Non-Industrial	Industrial		5 ft 4/21/2017	5 ft 4/21/2017	5 ft 4/21/2017	5 ft 5/10/2017	5 ft 5/10/2017	5 ft 5/31/2017	5 ft 5/31/2017	5 ft 5/31/2017	5 ft 5/31/2017	4 ft 10/21/2016
VOCs (µg/kg)				Excavated 05-10-17			Excavated 05-31-17	Excavated 05-31-17					
1,1,1-Trichloroethane	640,000	640,000	140.2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25	<25
1,1,2-Trichloroethane	1,590	7,010	3.2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25	<25
1,1-Dichloroethane	5,060	22,200	483.40	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25	<25
1,1-Dichloroethene	320,000	1,190,000	5	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25	<25
1,2,4-Trichlorobenzene	24,000	113,000	408	<47.6	<47.6	<47.6	<47.6	<47.6	<47.6	<47.6	<47.6	<47.6	<47.6
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25	<25
1,2-Dichlorobenzene	376,000	376,000	1168	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25	<25
1,3-Dichlorobenzene	297,000	297,000	1152.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25	<25
1,4-Dichlorobenzene	3,740	16,400	144	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25	<25
Benzene	1,600	7,070	5.1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25	<25
Chlorobenzene	370,000	761,000	136	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25	<25
Chloroform	454	1,980	3.3	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	63.2 ^{JC}	<25.0	<25.0	<25.0	<25.0	603 ^C	<25.0	<25.0	<25	<25
Ethylbenzene	8,020	35,400	1570	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0 ^{UJ}	<25.0	<25	<25
Hexachlorobutadiene	1,630	7,190	--	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25	<25
Methylene Chloride	61,800	1,150,000	2.6	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25	<25
n-Butylbenzene	108,000	108,000	--	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25	<25
n-Propylbenzene	264,000	264,000	--	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25	<25
Naphthalene	5,520	24,100	658.2	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40	<40
p-Isopropyltoluene	162,000	162,000	--	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25	<25
sec-Butylbenzene	145,000	145,000	--	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25	<25
tert-Butylbenzene	183,000	183,000	--	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25	<25
Tetrachloroethene	33,000	145,000	4.5	117 ^C	<25.0	<25.0	52.3 ^{JC}	47.5 ^{JC}	<25.0	<25.0	<25.0	<25	<25
Toluene	818,000	818,000	1107.2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25	<25
Trichloroethene	1,300	8,410	3.6	9690 ^{ABC}	36.5 ^{JC}	394 ^C	4620 ^{AC}	5080 ^{AC}	1200 ^C	503 ^C	902 ^C	<25	<25
Vinyl chloride	67	2,080	0.1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25	<25
Xylene (Total)	260,000	260,000	3,960	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	<75	<75

Notes: VOCs = Volatile Organic Compounds

ug/kg = Micrograms per kilogram. -- = No generic RCL established.

^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E7T									
	Direct Contact Pathway		Groundwater Pathway	7T-B-3	7T-B-4	7T-B-5	7T-B-6	7T-B-7	7T-SW-1	7T-SW-2	7T-SW-3	7T-SW-4	7T-SW-5
	Non-Industrial	Industrial		4 ft 4/18/2017	4 ft 4/18/2017	4 ft 6/1/2017	4 ft 6/2/2017	8 ft 6/27/2017	2 ft 10/21/2016	2 ft 10/21/2016	2 ft 10/21/2016	2 ft 10/21/2016	2 ft 10/21/2016
VOCs (µg/kg)									Excavated 11-29-16	Excavated 11-29-16	Excavated 11-29-16	Excavated 11-29-16	
1,1,1-Trichloroethane	640,000	640,000	140.2	<25.3	<25.0	<25.0	<25.0	<25.0	<30.1	<26	<25	<25	<28.1
1,1,2-Trichloroethane	1,590	7,010	3.2	<25.3	<25.0	<25.0	<25.0	<25.0	<30.1	<26	<25	<25	<28.1
1,1-Dichloroethane	5,060	22,200	483.40	<25.3	<25.0	<25.0	<25.0	<25.0	<30.1	<26	<25	<25	<28.1
1,1-Dichloroethene	320,000	1,190,000	5	<25.3	<25.0	<25.0	<25.0	<25.0	<30.1	<26	<25	<25	<28.1
1,2,4-Trichlorobenzene	24,000	113,000	408	<48.0	<47.6	<47.6	<47.6	<47.6	<57.3	<49.5	<47.6	<47.6	<53.4
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<25.3	79.8	<25.0	<25.0	<25.0	<30.1	<26	<25	<25	<28.1
1,2-Dichlorobenzene	376,000	376,000	1168	<25.3	<25.0	<25.0	<25.0	<25.0	<30.1	<26	<25	<25	<28.1
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<25.3	53.8^J	<25.0	<25.0	<25.0	<30.1	<26	<25	<25	<28.1
1,3-Dichlorobenzene	297,000	297,000	1152.8	<25.3	<25.0	<25.0	<25.0	<25.0	<30.1	<26	<25	<25	<28.1
1,4-Dichlorobenzene	3,740	16,400	144	<25.3	<25.0	<25.0	<25.0	<25.0	<30.1	<26	<25	<25	<28.1
Benzene	1,600	7,070	5.1	<25.3	<25.0	<25.0	<25.0	<25.0	<30.1	<26	<25	<25	<28.1
Chlorobenzene	370,000	761,000	136	<25.3	<25.0	<25.0	<25.0	<25.0	<30.1	<26	<25	<25	<28.1
Chloroform	454	1,980	3.3	<46.9	<46.4	<46.4	<46.4	<46.4	<56	<48.4	<46.4	<46.4	<52.2
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<25.3	<25.0	<25.0	<25.0	<25.0	<30.1	<26	<25	<25	<28.1
Ethylbenzene	8,020	35,400	1570	<25.3	<25.0	<25.0	<25.0	<25.0	<30.1	<26	<25	<25	<28.1
Hexachlorobutadiene	1,630	7,190	--	<25.3	<25.0	<25.0	<25.0	<25.0	<30.1	<26	<25	<25	<28.1
Isopropylbenzene (Cumene)	268,000	268,000	--	<25.3	<25.0	<25.0	<25.0	<25.0	<30.1	<26	<25	<25	<28.1
Methylene Chloride	61,800	1,150,000	2.6	<25.3	<25.0	<25.0	<25.0	<25.0	<30.1	<26	<25	<25	48.4^{JC}
n-Butylbenzene	108,000	108,000	--	<25.3	92.1	<25.0	<25.0	<25.0	<30.1	<26	<25	<25	<28.1
n-Propylbenzene	264,000	264,000	--	<25.3	34.2^J	<25.0	<25.0	<25.0	<30.1	<26	<25	<25	<28.1
Naphthalene	5,520	24,100	658.2	<40.4	<40.0	<40.0	<40.0	<40.0	<48.2	<41.7	<40	59 ^J	154^J
p-Isopropyltoluene	162,000	162,000	--	<25.3	172	<25.0	<25.0	<25.0	<30.1	<26	<25	<25	<28.1
sec-Butylbenzene	145,000	145,000	--	<25.3	42.8^J	<25.0	<25.0	<25.0	<30.1	<26	<25	<25	<28.1
tert-Butylbenzene	183,000	183,000	--	<25.3	<25.0	<25.0	<25.0	<25.0	<30.1	<26	<25	<25	<28.1
Tetrachloroethene	33,000	145,000	4.5	<25.3	<25.0	<25.0	<25.0	<25.0	<30.1	<26	<25	<25	<28.1
Toluene	818,000	818,000	1107.2	<25.3	<25.0	<25.0	<25.0	<25.0	<30.1	<26	<25	<25	<28.1
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<25.3	<25.0	<25.0	<25.0	<25.0	<30.1	<26	<25	<25	<28.1
Trichloroethene	1,300	8,410	3.6	40.3^{JC}	395^C	1250^C	689^C	3480^{AC}	3130^{AC}	5680^{AC}	6920^{AC}	281^C	636^C
Vinyl chloride	67	2,080	0.1	<25.3	<25.0	<25.0	<25.0	<25.0	<30.1	<26	<25	<25	<28.1
Xylene (Total)	260,000	260,000	3,960	<75.8	<75.0	<75.0	<75.0	<75.0	<90.4	<78.1	<75	<75	<84.3

Notes: VOCs = Volatile Organic Compounds

µg/kg = Micrograms per kilogram. -- = No generic RCL established.

^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E7T									
	Direct Contact Pathway		Groundwater Pathway	7T-SW-6	7T-SW-7	7T-SW-8	7T-SW-9	7T-SW-10	7T-SW-11	7T-SW-12	7T-SW-13	7T-SW-14	7T-SW-15
	Non-Industrial	Industrial		2 ft 10/21/2016	2 ft 10/21/2016	2 ft 10/21/2016	2 ft 11/29/2016	2 ft 11/29/2016	2 ft 11/29/2016	2 ft 11/29/2016	2 ft 11/29/2016	2 ft 4/18/2017	2 ft 4/18/2017
VOCs (µg/kg)							Excavated 04-18-17	Excavated 04-18-17	Excavated 04-18-17			Excavated 05-11-17	
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<30.5	<28.4	<50	<28.7	<25.3	<25	<25	<25.3	<25.0
1,1,2-Trichloroethane	1,590	7,010	3.2	<25	<30.5	<28.4	<50	<28.7	<25.3	<25	<25	<25.3	<25.0
1,1-Dichloroethane	5,060	22,200	483.40	<25	<30.5	<28.4	<50	<28.7	<25.3	<25	<25	<25.3	<25.0
1,1-Dichloroethene	320,000	1,190,000	5	<25	<30.5	<28.4	<50	<28.7	<25.3	<25	<25	<25.3	<25.0
1,2,4-Trichlorobenzene	24,000	113,000	408	<47.6	<58	<54	<95.1	<54.7	<48	<47.6	<47.6	<48.0	<47.6
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<25	<30.5	60.9 ^J	<50	<28.7	<25.3	<25	<25	<25.3	<25.0
1,2-Dichlorobenzene	376,000	376,000	1168	<25	<30.5	<28.4	<50	<28.7	<25.3	<25	<25	<25.3	<25.0
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<25	<30.5	<28.4	<50	<28.7	<25.3	<25	<25	<25.3	<25.0
1,3-Dichlorobenzene	297,000	297,000	1152.8	<25	<30.5	<28.4	<50	<28.7	<25.3	<25	<25	<25.3	<25.0
1,4-Dichlorobenzene	3,740	16,400	144	<25	<30.5	<28.4	<50	<28.7	<25.3	<25	<25	<25.3	<25.0
Benzene	1,600	7,070	5.1	<25	<30.5	<28.4	<50	<28.7	<25.3	<25	<25	<25.3	<25.0
Chlorobenzene	370,000	761,000	136	<25	<30.5	<28.4	<50	<28.7	<25.3	<25	<25	<25.3	<25.0
Chloroform	454	1,980	3.3	<46.4	<56.6	<52.8	<92.9	<53.4	<46.9	<46.4	<46.4	<46.9	<46.4
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<25	<30.5	<28.4	<50	290 ^{JC}	<25.3	<25	<25	<25.3	<25.0
Ethylbenzene	8,020	35,400	1570	<25	<30.5	<28.4	<50	<28.7	<25.3	<25	<25	<25.3	<25.0
Hexachlorobutadiene	1,630	7,190	--	<25	<30.5	<28.4	<50	<28.7	<25.3	<25	<25	<25.3	<25.0
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<30.5	<28.4	<50	<28.7	<25.3	<25	<25	<25.3	<25.0
Methylene Chloride	61,800	1,150,000	2.6	62.6 ^{JC}	53.3 ^{JC}	43.6 ^{JC}	<50	<28.7	<25.3	<25	<25	<25.3	<25.0
n-Butylbenzene	108,000	108,000	--	<25	<30.5	<28.4	<50	<28.7	<25.3	<25	<25	<25.3	<25.0
n-Propylbenzene	264,000	264,000	--	<25	<30.5	<28.4	<50	<28.7	<25.3	<25	<25	<25.3	<25.0
Naphthalene	5,520	24,100	658.2	52.6 ^J	<48.8	91.8 ^J	<80.1	<46	<40.4	<40	<40	<40.4	<40.0
p-Isopropyltoluene	162,000	162,000	--	<25	<30.5	<28.4	<50	<28.7	<25.3	<25	<25	<25.3	<25.0
sec-Butylbenzene	145,000	145,000	--	<25	<30.5	<28.4	<50	<28.7	<25.3	<25	<25	<25.3	<25.0
tert-Butylbenzene	183,000	183,000	--	<25	<30.5	<28.4	<50	<28.7	<25.3	<25	<25	<25.3	<25.0
Tetrachloroethene	33,000	145,000	4.5	<25	<30.5	<28.4	<50	<28.7	<25.3	<25	<25	<25.3	<25.0
Toluene	818,000	818,000	1107.2	<25	<30.5	<28.4	<50	<28.7	<25.3	<25	<25	<25.3	<25.0
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<25	<30.5	<28.4	<50	387 ^{JC}	<25.3	<25	<25	<25.3	<25.0
Trichloroethene	1,300	8,410	3.6	32.2 ^{JC}	120 ^C	1210 ^C	8810 ^{ABC}	60900 ^{ABC}	4350 ^{AC}	<25	<25	3380 ^{AC}	524 ^C
Vinyl chloride	67	2,080	0.1	<25	<30.5	<28.4	<50	<28.7	<25.3	<25	<25	<25.3	<25.0
Xylene (Total)	260,000	260,000	3,960	<75	<91.5	<85.2	<150	<86.2	<75.8	<75	<75	<75.8	<75.0

Notes: VOCs = Volatile Organic Compounds

ug/kg = Micrograms per kilogram. -- = No generic RCL established.

^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E7T									
	Direct Contact Pathway		Groundwater Pathway	7T-SW-16	7T-SW-17	7T-SW-18	7T-SW-19	7T-SW-20	7T-SW-21	7T-SW-22	7T-SW-23	7T-SW-24	7T-SW-25
	Non-Industrial	Industrial		2 ft 4/18/2017	2 ft 4/18/2017	2 ft 5/11/2017	2 ft 5/11/2017	2 ft 5/11/2017	2 ft 5/11/2017	2 ft 6/1/2017	2 ft 6/1/2017	2 ft 6/2/2017	2 ft 6/2/2017
VOCs (µg/kg)					Excavated 05-11-17	Excavated 05-11-17		Excavated 06-02-17	Excavated 06-02-17		Excavated 06-27-17	Excavated 06-27-17	
1,1,1-Trichloroethane	640,000	640,000	140.2	<31.6	<25.8	<25.0	<25.0	<25.0	133	<25.0	<25.0	<50.0	<25.5
1,1,2-Trichloroethane	1,590	7,010	3.2	<31.6	<25.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.5
1,1-Dichloroethane	5,060	22,200	483.40	<31.6	<25.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.5
1,1-Dichloroethene	320,000	1,190,000	5	<31.6	<25.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.5
1,2,4-Trichlorobenzene	24,000	113,000	408	<60.2	<49.0	<47.6	<47.6	<47.6	<47.6	<47.6	<47.6	<95.1	<48.5
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<31.6	<25.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.5
1,2-Dichlorobenzene	376,000	376,000	1168	<31.6	<25.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.5
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<31.6	<25.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.5
1,3-Dichlorobenzene	297,000	297,000	1152.8	<31.6	<25.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.5
1,4-Dichlorobenzene	3,740	16,400	144	<31.6	<25.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.5
Benzene	1,600	7,070	5.1	<31.6	<25.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.5
Chlorobenzene	370,000	761,000	136	<31.6	<25.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.5
Chloroform	454	1,980	3.3	<58.8	<47.9	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4	<92.9	<47.4
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<31.6	58.2 ^{JC}	<25.0	<25.0	<25.0	183 ^C	<25.0	<25.0	382 ^C	<25.5
Ethylbenzene	8,020	35,400	1570	<31.6	<25.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	230	<25.5
Hexachlorobutadiene	1,630	7,190	--	<31.6	<25.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.5
Isopropylbenzene (Cumene)	268,000	268,000	--	<31.6	<25.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.5
Methylene Chloride	61,800	1,150,000	2.6	<31.6	<25.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.5
n-Butylbenzene	108,000	108,000	--	<31.6	<25.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.5
n-Propylbenzene	264,000	264,000	--	<31.6	<25.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.5
Naphthalene	5,520	24,100	658.2	<50.7	<41.3	55.9 ^J	<40.0	<40.0	616	<40.0	<40.0	600	<40.9
p-Isopropyltoluene	162,000	162,000	--	<31.6	<25.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.5
sec-Butylbenzene	145,000	145,000	--	<31.6	<25.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.5
tert-Butylbenzene	183,000	183,000	--	<31.6	<25.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.5
Tetrachloroethene	33,000	145,000	4.5	<31.6	<25.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.5
Toluene	818,000	818,000	1107.2	<31.6	<25.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.5
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<31.6	<25.8	<25.0	<25.0	<25.0	89.4 ^C	<25.0	<25.0	<50.0	<25.5
Trichloroethene	1,300	8,410	3.6	217 ^C	4710 ^{AC}	1850 ^{AC}	<25.0	2210 ^{AC}	11000 ^{ABC}	80.9 ^C	2860 ^{AC}	12500 ^{ABC}	445 ^C
Vinyl chloride	67	2,080	0.1	<31.6	<25.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.5
Xylene (Total)	260,000	260,000	3,960	<94.9	<77.3	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	<150	<76.5

Notes: VOCs = Volatile Organic Compounds

ug/kg = Micrograms per kilogram. -- = No generic RCL established.

^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E7T						E8T			
	Direct Contact Pathway		Groundwater Pathway	7T-SW-26	7T-SW-27	7T-SW-28	7T-SW-29	7T-SW-30	7T-SW-31	8T-B-1	8T-B-2	8T-SW-1	8T-SW-2
	Non-Industrial	Industrial		2 ft 6/2/2017	2 ft 6/2/2017	4 ft 6/27/2017	4 ft 6/27/2017	4 ft 6/27/2017	2 ft 6/27/2017	12 ft 10/20/2016	12 ft 10/20/2016	6 ft 10/20/2016	6 ft 10/20/2016
VOCs (µg/kg)					Excavated 06-27-17								
1,1,1-Trichloroethane	640,000	640,000	140.2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<29.4	<222	<28.1	<27.2
1,1,2-Trichloroethane	1,590	7,010	3.2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<29.4	<222	<28.1	<27.2
1,1-Dichloroethane	5,060	22,200	483.40	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<29.4	<222	<28.1	<27.2
1,1-Dichloroethene	320,000	1,190,000	5	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<29.4	<222	<28.1	<27.2
1,2,4-Trichlorobenzene	24,000	113,000	408	<47.6	<47.6	<47.6	<47.6	<47.6	<47.6	<55.9	<423	<53.4	<51.7
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<29.4	<222	<28.1	<27.2
1,2-Dichlorobenzene	376,000	376,000	1168	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<29.4	<222	<28.1	<27.2
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<29.4	<222	<28.1	<27.2
1,3-Dichlorobenzene	297,000	297,000	1152.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<29.4	<222	<28.1	<27.2
1,4-Dichlorobenzene	3,740	16,400	144	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<29.4	<222	<28.1	<27.2
Benzene	1,600	7,070	5.1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<29.4	<222	<28.1	<27.2
Chlorobenzene	370,000	761,000	136	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<29.4	<222	<28.1	<27.2
Chloroform	454	1,980	3.3	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4	<54.6	<413	<52.2	<50.5
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<25.0	186 ^C	<25.0	<25.0	<25.0	<25.0	99 ^C	702 ^C	78.7 ^{JC}	<27.2
Ethylbenzene	8,020	35,400	1570	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<29.4	<222	<28.1	<27.2
Hexachlorobutadiene	1,630	7,190	--	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<29.4	<222	<28.1	<27.2
Isopropylbenzene (Cumene)	268,000	268,000	--	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<29.4	<222	<28.1	<27.2
Methylene Chloride	61,800	1,150,000	2.6	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<29.4	<222	<28.1	<27.2
n-Butylbenzene	108,000	108,000	--	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<29.4	<222	<28.1	<27.2
n-Propylbenzene	264,000	264,000	--	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<29.4	<222	<28.1	<27.2
Naphthalene	5,520	24,100	658.2	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<47.1	<356	<45	<43.5
p-Isopropyltoluene	162,000	162,000	--	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<29.4	<222	<28.1	<27.2
sec-Butylbenzene	145,000	145,000	--	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<29.4	<222	<28.1	<27.2
tert-Butylbenzene	183,000	183,000	--	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<29.4	<222	<28.1	<27.2
Tetrachloroethene	33,000	145,000	4.5	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<29.4	<222	<28.1	<27.2
Toluene	818,000	818,000	1107.2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<29.4	<222	<28.1	<27.2
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<29.4	<222	<28.1	<27.2
Trichloroethene	1,300	8,410	3.6	144 ^C	2030 ^{AC}	451 ^C	2820 ^{AC}	122 ^C	414 ^C	<29.4	26700 ^{ABC}	<28.1	137 ^C
Vinyl chloride	67	2,080	0.1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<29.4	<222	<28.1	<27.2
Xylene (Total)	260,000	260,000	3,960	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	<88.2	<667	<84.3	<81.5

Notes: VOCs = Volatile Organic Compounds

ug/kg = Micrograms per kilogram. -- = No generic RCL established.

^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E8T										E10T
	Direct Contact Pathway		Groundwater Pathway	8T-SW-3	8T-SW-4	8T-SW-5	8T-SW-6	8T-SW-7	8T-SW-8	8T-SW-9	8T-SW-10	8T-SW-11	10-B-1	
	Non-Industrial	Industrial		6 ft	6 ft	6 ft	6 ft	6 ft	6 ft	6 ft	6 ft	6 ft	12 ft	
			10/20/2016	10/20/2016	10/20/2016	10/20/2016	10/21/2016	10/21/2016	11/29/2016	11/29/2016	11/29/2016	10/28/2016		
VOCs (µg/kg)				Excavated 11-29-16	Excavated 11-29-16		Excavated 11-29-16							
1,1,1-Trichloroethane	640,000	640,000	140.2	<25.5	<26.3	<25	<25	<25	<26.9	<25	<25.8	<25	<26.9	
1,1,2-Trichloroethane	1,590	7,010	3.2	<25.5	<26.3	<25	<25	<25	<26.9	<25	<25.8	<25	<26.9	
1,1-Dichloroethane	5,060	22,200	483.40	<25.5	<26.3	<25	<25	<25	<26.9	<25	<25.8	<25	<26.9	
1,1-Dichloroethene	320,000	1,190,000	5	<25.5	<26.3	<25	<25	<25	<26.9	<25	<25.8	<25	<26.9	
1,2,4-Trichlorobenzene	24,000	113,000	408	<48.5	<50.1	<47.6	<47.6	<47.6	<51.1	<47.6	<49	<47.6	<51.1	
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<25.5	<26.3	<25	<25	<25	<26.9	<25	<25.8	<25	<26.9	
1,2-Dichlorobenzene	376,000	376,000	1168	<25.5	<26.3	<25	<25	<25	<26.9	<25	<25.8	<25	<26.9	
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<25.5	<26.3	<25	<25	<25	<26.9	<25	<25.8	<25	<26.9	
1,3-Dichlorobenzene	297,000	297,000	1152.8	<25.5	<26.3	<25	<25	<25	<26.9	<25	<25.8	<25	<26.9	
1,4-Dichlorobenzene	3,740	16,400	144	<25.5	<26.3	<25	<25	<25	<26.9	<25	<25.8	<25	<26.9	
Benzene	1,600	7,070	5.1	<25.5	<26.3	<25	<25	<25	<26.9	<25	<25.8	<25	<26.9	
Chlorobenzene	370,000	761,000	136	<25.5	<26.3	<25	<25	<25	<26.9	<25	<25.8	<25	<26.9	
Chloroform	454	1,980	3.3	<47.4	<48.9	<46.4	<46.4	<46.4	<49.9	<46.4	<47.9	<46.4	<49.9	
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<25.5	<26.3	<25	<25	<25	<26.9	<25	<25.8	37.7 ^J	8060 ^C	
Ethylbenzene	8,020	35,400	1570	<25.5	<26.3	<25	<25	<25	<26.9	<25	<25.8	<25	<26.9	
Hexachlorobutadiene	1,630	7,190	--	<25.5	<26.3	<25	<25	<25	<26.9	<25	<25.8	<25	<26.9	
Isopropylbenzene (Cumene)	268,000	268,000	--	<25.5	<26.3	<25	<25	<25	<26.9	<25	<25.8	<25	<26.9	
Methylene Chloride	61,800	1,150,000	2.6	<25.5	<26.3	<25	<25	<25	<26.9	<25	<25.8	<25	<26.9	
n-Butylbenzene	108,000	108,000	--	<25.5	<26.3	<25	<25	<25	<26.9	<25	<25.8	<25	<26.9	
n-Propylbenzene	264,000	264,000	--	<25.5	<26.3	<25	<25	<25	<26.9	<25	<25.8	<25	<26.9	
Naphthalene	5,520	24,100	658.2	<40.9	<42.2	<40	<40	<40	<43.1	<40	<41.3	<40	<43.1	
p-Isopropyltoluene	162,000	162,000	--	<25.5	<26.3	<25	<25	<25	<26.9	<25	<25.8	<25	<26.9	
sec-Butylbenzene	145,000	145,000	--	<25.5	<26.3	<25	<25	<25	<26.9	<25	<25.8	<25	<26.9	
tert-Butylbenzene	183,000	183,000	--	<25.5	<26.3	<25	<25	<25	<26.9	<25	<25.8	<25	<26.9	
Tetrachloroethene	33,000	145,000	4.5	<25.5	<26.3	<25	<25	<25	<26.9	<25	<25.8	<25	<26.9	
Toluene	818,000	818,000	1107.2	<25.5	<26.3	<25	<25	<25	<26.9	<25	<25.8	<25	<26.9	
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<25.5	<26.3	<25	<25	<25	<26.9	<25	<25.8	<25	262 ^C	
Trichloroethene	1,300	8,410	3.6	1600 ^{AC}	1130 ^C	356 ^C	5050 ^{AC}	41.3 ^{JC}	77.7 ^{JC}	125 ^C	396 ^C	276 ^C	115 ^C	
Vinyl chloride	67	2,080	0.1	<25.5	<26.3	<25	<25	<25	<26.9	<25	<25.8	<25	65.5 ^{JC}	
Xylene (Total)	260,000	260,000	3,960	<76.5	<78.9	<75	<75	<75	<80.6	<75	<77.3	<75	<80.6	

Notes: VOCs = Volatile Organic Compounds

ug/kg = Micrograms per kilogram. -- = No generic RCL established.

^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E10T									
	Direct Contact Pathway		Groundwater Pathway	10T-B-2	10T-B-3	10T-B-4	10T-B-5	10T-B-6	10T-B-7	10T-B-8	10T-B-9	10T-B-10	10T-B-11
	Non-Industrial	Industrial		12 ft 11/1/2016	12 ft 11/3/2016	12 ft 11/3/2016	12 ft 11/4/2016	12 ft 11/4/2016	12 ft 11/22/2016	12 ft 11/22/2016	12 ft 11/22/2016	12 ft 11/22/2016	12 ft 11/22/2016
VOCs (µg/kg)													
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25.5	<26.3	<25	<25	<208	<200	<125	<25	<125
1,1,2-Trichloroethane	1,590	7,010	3.2	<25	<25.5	<26.3	<25	<25	<208	<200	<125	<25	<125
1,1-Dichloroethane	5,060	22,200	483.40	<25	111	145	<25	<25	<208	<200	<125	<25	<125
1,1-Dichloroethene	320,000	1,190,000	5	<25	<25.5	<26.3	<25	<25	<208	<200	<125	<25	<125
1,2,4-Trichlorobenzene	24,000	113,000	408	<47.6	<48.5	<50.1	<47.6	<47.6	<396	<380	<238	<47.6	<238
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<25	<25.5	<26.3	<25	<25	<208	<200	<125	<25	<125
1,2-Dichlorobenzene	376,000	376,000	1168	<25	<25.5	<26.3	<25	<25	<208	<200	<125	<25	<125
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<25	<25.5	<26.3	<25	<25	<208	<200	<125	<25	<125
1,3-Dichlorobenzene	297,000	297,000	1152.8	<25	<25.5	<26.3	<25	<25	<208	<200	<125	<25	<125
1,4-Dichlorobenzene	3,740	16,400	144	<25	<25.5	<26.3	<25	<25	<208	<200	<125	<25	<125
Benzene	1,600	7,070	5.1	<25	<25.5	<26.3	<25	<25	<208	<200	<125	<25	<125
Chlorobenzene	370,000	761,000	136	<25	<25.5	<26.3	<25	<25	<208	<200	<125	<25	<125
Chloroform	454	1,980	3.3	<46.4	<47.4	<48.9	<46.4	<46.4	<387	<372	<232	<46.4	<232
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	1020^C	3300^C	1110^C	4570^C	723^C	7960^C	9290^C	3080^C	6000^C	976^C
Ethylbenzene	8,020	35,400	1570	<25	<25.5	<26.3	<25	<25	<208	<200	<125	<25	<125
Hexachlorobutadiene	1,630	7,190	--	<25	<25.5	<26.3	<25	<25	<208	<200	<125	<25	<125
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25.5	<26.3	<25	<25	<208	<200	<125	<25	<125
Methylene Chloride	61,800	1,150,000	2.6	<25	<25.5	<26.3	<25	46.2^J	<208	<200	<125	<25	<125
n-Butylbenzene	108,000	108,000	--	<25	<25.5	<26.3	<25	<25	<208	<200	<125	<25	<125
n-Propylbenzene	264,000	264,000	--	<25	<25.5	<26.3	<25	<25	<208	<200	<125	<25	<125
Naphthalene	5,520	24,100	658.2	<40	<40.9	<42.2	<40	<40	<334	<320	<200	<40	<200
p-Isopropyltoluene	162,000	162,000	--	<25	<25.5	<26.3	<25	<25	<208	<200	<125	<25	<125
sec-Butylbenzene	145,000	145,000	--	<25	<25.5	<26.3	<25	<25	<208	<200	<125	<25	<125
tert-Butylbenzene	183,000	183,000	--	<25	<25.5	<26.3	<25	<25	<208	<200	<125	<25	<125
Tetrachloroethene	33,000	145,000	4.5	<25	<25.5	<26.3	<25	<25	<208	<200	<125	<25	<125
Toluene	818,000	818,000	1107.2	<25	<25.5	<26.3	<25	<25	<208	<200	<125	<25	<125
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	437^C	459^C	104^C	522^C	<25	418^{JC}	608^C	242^{JC}	149^C	<125
Trichloroethene	1,300	8,410	3.6	34.5^{JC}	9310^{ABC}	3060^{AC}	1160^C	620^C	43400^{ABC}	25400^{ABC}	24000^{ABC}	9700^{ABC}	18400^{ABC}
Vinyl chloride	67	2,080	0.1	64.7^{JC}	<25.5	<26.3	<25	<25	<208	<200	<125	<25	<125
Xylene (Total)	260,000	260,000	3,960	<75	<76.5	<78.9	<75	<75	<625	<600	<375	<75	<375

Notes: VOCs = Volatile Organic Compounds

ug/kg = Micrograms per kilogram. -- = No generic RCL established.

^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E10T									
	Direct Contact Pathway		Groundwater Pathway	10T-B-12	10T-B-13	10T-B-14	10T-B-15	10T-B-16	10T-B-17	10T-B-18	10T-B-19	10T-B-20	10T-B-21
	Non-Industrial	Industrial		12 ft 11/22/2016	12 ft 11/29/2016	12 ft 4/18/2017	12 ft 4/18/2017	12 ft 4/19/2017	12 ft 4/19/2017	12 ft 4/19/2017	12 ft 4/19/2017	12 ft 4/19/2017	12 ft 5/8/2017
VOCs (µg/kg)													
1,1,1-Trichloroethane	640,000	640,000	140.2	<100	<25	<25.0	<50.0	<25.0	<25.0	<25.3	<25.0	<25.0	<25.0
1,1,2-Trichloroethane	1,590	7,010	3.2	<100	<25	<25.0	<50.0	<25.0	<25.0	<25.3	<25.0	<25.0	<25.0
1,1-Dichloroethane	5,060	22,200	483.40	<100	<25	<25.0	<50.0	<25.0	<25.0	<25.3	<25.0	<25.0	<25.0
1,1-Dichloroethene	320,000	1,190,000	5	<100	<25	<25.0	<50.0	<25.0	<25.0	<25.3	<25.0	<25.0	<25.0
1,2,4-Trichlorobenzene	24,000	113,000	408	<190	<47.6	<47.6	<95.1	<47.6	<47.6	<48.0	<47.6	<47.6	<47.6
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<100	<25	<25.0	<50.0	<25.0	<25.0	<25.3	<25.0	<25.0	<25.0
1,2-Dichlorobenzene	376,000	376,000	1168	<100	<25	<25.0	<50.0	<25.0	<25.0	<25.3	<25.0	<25.0	<25.0
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<100	<25	<25.0	<50.0	<25.0	<25.0	<25.3	<25.0	<25.0	<25.0
1,3-Dichlorobenzene	297,000	297,000	1152.8	<100	<25	<25.0	<50.0	<25.0	<25.0	<25.3	<25.0	<25.0	<25.0
1,4-Dichlorobenzene	3,740	16,400	144	<100	<25	<25.0	<50.0	<25.0	<25.0	<25.3	<25.0	<25.0	<25.0
Benzene	1,600	7,070	5.1	<100	<25	<25.0	<50.0	<25.0	<25.0	<25.3	<25.0	<25.0	<25.0
Chlorobenzene	370,000	761,000	136	<100	<25	<25.0	<50.0	<25.0	<25.0	<25.3	<25.0	<25.0	<25.0
Chloroform	454	1,980	3.3	<186	<46.4	<46.4	<92.9	<46.4	<46.4	<46.9	<46.4	<46.4	<46.4
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	20200 ^C	2840 ^C	829 ^C	14700 ^C	5260 ^C	4990 ^C	12200 ^C	3740 ^C	4800 ^C	3340 ^C
Ethylbenzene	8,020	35,400	1570	<100	<25	<25.0	<50.0	<25.0	<25.0	<25.3	<25.0	<25.0	<25.0
Hexachlorobutadiene	1,630	7,190	--	<100	<25	<25.0	<50.0	<25.0	<25.0	<25.3	<25.0	<25.0	<25.0
Isopropylbenzene (Cumene)	268,000	268,000	--	<100	<25	<25.0	<50.0	<25.0	<25.0	<25.3	<25.0	<25.0	<25.0
Methylene Chloride	61,800	1,150,000	2.6	<100	<25	<25.0	<50.0	<25.0	<25.0	<25.3	<25.0	<25.0	<25.0
n-Butylbenzene	108,000	108,000	--	<100	<25	<25.0	<50.0	<25.0	<25.0	<25.3	<25.0	<25.0	<25.0
n-Propylbenzene	264,000	264,000	--	<100	<25	<25.0	<50.0	<25.0	<25.0	<25.3	<25.0	<25.0	<25.0
Naphthalene	5,520	24,100	658.2	<160	<40	<40.0	<80.1	<40.0	<40.0	<40.4	<40.0	<40.0	<40.0
p-Isopropyltoluene	162,000	162,000	--	<100	<25	<25.0	<50.0	<25.0	<25.0	<25.3	<25.0	<25.0	<25.0
sec-Butylbenzene	145,000	145,000	--	<100	<25	<25.0	<50.0	<25.0	<25.0	<25.3	<25.0	<25.0	<25.0
tert-Butylbenzene	183,000	183,000	--	<100	<25	<25.0	<50.0	<25.0	<25.0	<25.3	<25.0	<25.0	<25.0
Tetrachloroethene	33,000	145,000	4.5	<100	<25	<25.0	<50.0	<25.0	<25.0	<25.3	<25.0	<25.0	<25.0
Toluene	818,000	818,000	1107.2	<100	<25	<25.0	<50.0	<25.0	<25.0	<25.3	<25.0	<25.0	<25.0
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	670 ^C	<25	87.4 ^C	224 ^C	115 ^C	<25.0	264 ^C	627 ^C	912 ^C	281 ^C
Trichloroethene	1,300	8,410	3.6	11800 ^{ABC}	<25	473 ^C	171 ^C	139 ^C	<25.0	<25.3	201 ^C	233 ^C	<25.0
Vinyl chloride	67	2,080	0.1	<100	352 ^{AC}	<25.0	85.8 ^{JAC}	200 ^{AC}	234 ^{AC}	594 ^{AC}	220 ^{AC}	191 ^{AC}	42.9 ^{JC}
Xylene (Total)	260,000	260,000	3,960	<300	<75	<75.0	<150	<75.0	<75.0	<75.8	<75.0	<75.0	<75.0

Notes: VOCs = Volatile Organic Compounds

ug/kg = Micrograms per kilogram. -- = No generic RCL established.

^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E10T									
	Direct Contact Pathway		Groundwater Pathway	10T-B-22	10T-B-23	10T-B-24	10T-B-25	10-SW-1	10-SW-2	10T-SW-3	10-SW-4	10T-SW-5	10T-SW-6
	Non-Industrial	Industrial		12 ft 5/8/2017	12 ft 5/8/2017	12 ft 5/11/2017	12 ft 5/9/2017	6 ft 10/28/2016	6 ft 10/28/2016	6 ft 10/31/2016	6 ft 10/28/2016	6 ft 10/31/2016	6 ft 10/31/2016
VOCs (µg/kg)									Excavated 11-22-16	Excavated 11-22-16		Excavated 11-22-16	Excavated 11-22-16
1,1,1-Trichloroethane	640,000	640,000	140.2	<25.0	<25.0	<28.4	<50.0	<39.1	<25.8	372^C	<32.5	<25.5	<126
1,1,2-Trichloroethane	1,590	7,010	3.2	<25.0	<25.0	<28.4	<50.0	<39.1	<25.8	<29.1	<32.5	<25.5	<126
1,1-Dichloroethane	5,060	22,200	483.40	<25.0	<25.0	<28.4	<50.0	<39.1	<25.8	<29.1	<32.5	<25.5	<126
1,1-Dichloroethene	320,000	1,190,000	5	<25.0	<25.0	<28.4	<50.0	<39.1	<25.8	<29.1	<32.5	<25.5	<126
1,2,4-Trichlorobenzene	24,000	113,000	408	<47.6	<47.6	<54.0	<95.1	<74.3	<49	<55.3	<61.8	<48.5	<240
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<25.0	<25.0	<28.4	<50.0	<39.1	<25.8	<29.1	<32.5	<25.5	<126
1,2-Dichlorobenzene	376,000	376,000	1168	<25.0	<25.0	<28.4	<50.0	<39.1	<25.8	<29.1	<32.5	<25.5	<126
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<25.0	<25.0	<28.4	<50.0	<39.1	<25.8	<29.1	<32.5	<25.5	<126
1,3-Dichlorobenzene	297,000	297,000	1152.8	<25.0	<25.0	<28.4	<50.0	<39.1	<25.8	<29.1	<32.5	<25.5	<126
1,4-Dichlorobenzene	3,740	16,400	144	<25.0	<25.0	<28.4	<50.0	<39.1	<25.8	<29.1	<32.5	<25.5	<126
Benzene	1,600	7,070	5.1	<25.0	<25.0	<28.4	<50.0	<39.1	<25.8	<29.1	<32.5	<25.5	<126
Chlorobenzene	370,000	761,000	136	<25.0	<25.0	<28.4	<50.0	<39.1	<25.8	<29.1	<32.5	<25.5	<126
Chloroform	454	1,980	3.3	<46.4	<46.4	<52.8	<92.9	<72.6	<47.9	<54	<60.3	<47.4	<235
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	242^C	4940^C	160^C	11800^C	<39.1	<25.8	<29.1	<32.5	<25.5	<126
Ethylbenzene	8,020	35,400	1570	<25.0	<25.0	<28.4	<50.0	<39.1	<25.8	<29.1	<32.5	<25.5	<126
Hexachlorobutadiene	1,630	7,190	--	<25.0	<25.0	<28.4	<50.0	<39.1	<25.8	<29.1	<32.5	<25.5	<126
Isopropylbenzene (Cumene)	268,000	268,000	--	<25.0	<25.0	<28.4	<50.0	<39.1	<25.8	<29.1	<32.5	<25.5	<126
Methylene Chloride	61,800	1,150,000	2.6	<25.0	<25.0	<28.4	<50.0	<39.1	<25.8	<29.1	<32.5	<25.5	<126
n-Butylbenzene	108,000	108,000	--	<25.0	<25.0	<28.4	<50.0	<39.1	<25.8	<29.1	<32.5	<25.5	<126
n-Propylbenzene	264,000	264,000	--	<25.0	<25.0	<28.4	<50.0	<39.1	<25.8	<29.1	<32.5	<25.5	<126
Naphthalene	5,520	24,100	658.2	<40.0	<40.0	<45.5	<80.1	<62.6	<41.3	<46.6	<52	<40.9	<202
p-Isopropyltoluene	162,000	162,000	--	<25.0	<25.0	<28.4	<50.0	<39.1	<25.8	<29.1	<32.5	<25.5	<126
sec-Butylbenzene	145,000	145,000	--	<25.0	<25.0	<28.4	<50.0	<39.1	<25.8	<29.1	<32.5	<25.5	<126
tert-Butylbenzene	183,000	183,000	--	<25.0	<25.0	<28.4	<50.0	<39.1	<25.8	<29.1	<32.5	<25.5	<126
Tetrachloroethene	33,000	145,000	4.5	278^C	<25.0	<28.4	<50.0	<39.1	<25.8	<29.1	<32.5	<25.5	255^{JC}
Toluene	818,000	818,000	1107.2	<25.0	<25.0	<28.4	<50.0	<39.1	<25.8	<29.1	<32.5	<25.5	<126
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	32.9^J	206^C	74.1^{JC}	77.5^{JC}	<39.1	<25.8	<29.1	<32.5	<25.5	<126
Trichloroethene	1,300	8,410	3.6	898^C	<25.0	45.9^{JC}	<50.0	<39.1	1360^{AC}	4570^{AC}	<32.5	5480^{AC}	30800^{ABC}
Vinyl chloride	67	2,080	0.1	<25.0	200^{AC}	41.8^{JC}	<50.0	<39.1	<25.8	<29.1	<32.5	<25.5	<126
Xylene (Total)	260,000	260,000	3,960	<75.0	<75.0	<85.2	<150	<117	<77.3	<87.2	<97.4	<76.5	<379

Notes: VOCs = Volatile Organic Compounds

ug/kg = Micrograms per kilogram. -- = No generic RCL established.

^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E10T									
	Direct Contact Pathway		Groundwater Pathway	10T-SW-7	10T-SW-8	10T-SW-9	10T-SW-10	10T-SW-11	10T-SW-12	10T-SW-13	10T-SW-14	10T-SW-15	10T-SW-16
	Non-Industrial	Industrial		6 ft 11/1/2016	6 ft 11/1/2016	6 ft 11/1/2016	6 ft 11/1/2016	6 ft 11/1/2016	6 ft 11/1/2016	6 ft 11/1/2016	6 ft 11/3/2016	6 ft 11/3/2016	6 ft 11/4/2016
VOCs (µg/kg)				Excavated 11-22-16	Excavated 11-22-16	Excavated 11-22-16							
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<30.1	<25	<30.1	<25	<28.1	<25	<25	47.4 ^J	54.6 ^J
1,1,2-Trichloroethane	1,590	7,010	3.2	<25	<30.1	<25	<30.1	<25	<28.1	<25	<25	<25	<25
1,1-Dichloroethane	5,060	22,200	483.40	<25	<30.1	<25	<30.1	<25	<28.1	<25	<25	<25	<25
1,1-Dichloroethene	320,000	1,190,000	5	<25	<30.1	<25	<30.1	<25	<28.1	<25	<25	<25	<25
1,2,4-Trichlorobenzene	24,000	113,000	408	<47.6	<57.3	<47.6	<57.3	<47.6	<53.4	<47.6	<47.6	<47.6	<47.6
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<25	<30.1	<25	<30.1	<25	<28.1	<25	<25	<25	<25
1,2-Dichlorobenzene	376,000	376,000	1168	<25	<30.1	<25	<30.1	<25	<28.1	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<25	<30.1	<25	<30.1	<25	<28.1	<25	<25	<25	<25
1,3-Dichlorobenzene	297,000	297,000	1152.8	<25	<30.1	<25	<30.1	<25	<28.1	<25	<25	<25	<25
1,4-Dichlorobenzene	3,740	16,400	144	<25	<30.1	<25	<30.1	<25	<28.1	<25	<25	<25	<25
Benzene	1,600	7,070	5.1	<25	<30.1	<25	<30.1	<25	<28.1	<25	<25	<25	<25
Chlorobenzene	370,000	761,000	136	<25	<30.1	<25	<30.1	<25	<28.1	<25	<25	<25	<25
Chloroform	454	1,980	3.3	<46.4	<56	<46.4	<56	<46.4	<52.2	<46.4	<46.4	<46.4	<46.4
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<25	<30.1	49.4 ^{JC}	<30.1	<25	<28.1	<25	<25	<25	<25
Ethylbenzene	8,020	35,400	1570	<25	<30.1	<25	<30.1	<25	<28.1	<25	<25	<25	<25
Hexachlorobutadiene	1,630	7,190	--	<25	<30.1	<25	<30.1	<25	<28.1	<25	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<30.1	<25	<30.1	<25	<28.1	<25	<25	<25	<25
Methylene Chloride	61,800	1,150,000	2.6	<25	<30.1	<25	<30.1	<25	<28.1	<25	<25	<25	58.2 ^{JC}
n-Butylbenzene	108,000	108,000	--	<25	<30.1	<25	<30.1	<25	<28.1	<25	<25	<25	<25
n-Propylbenzene	264,000	264,000	--	<25	<30.1	<25	<30.1	<25	<28.1	<25	<25	<25	<25
Naphthalene	5,520	24,100	658.2	<40	<48.2	<40	<48.2	<40	<45	<40	<40	<40	<40
p-Isopropyltoluene	162,000	162,000	--	<25	<30.1	<25	<30.1	<25	<28.1	<25	<25	<25	<25
sec-Butylbenzene	145,000	145,000	--	<25	<30.1	<25	<30.1	<25	<28.1	<25	<25	<25	<25
tert-Butylbenzene	183,000	183,000	--	<25	<30.1	<25	<30.1	<25	<28.1	<25	<25	<25	<25
Tetrachloroethene	33,000	145,000	4.5	<25	<30.1	<25	<30.1	<25	<28.1	<25	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25	<30.1	<25	<30.1	<25	<28.1	<25	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<25	<30.1	<25	<30.1	<25	<28.1	<25	<25	<25	<25
Trichloroethene	1,300	8,410	3.6	2920 ^{AC}	5390 ^{AC}	1460 ^{AC}	60.5 ^{JC}	58.6 ^{JC}	<28.1	<25	76.5 ^C	<25	128 ^C
Vinyl chloride	67	2,080	0.1	<25	<30.1	<25	<30.1	<25	<28.1	<25	<25	<25	<25
Xylene (Total)	260,000	260,000	3,960	<75	<90.4	<75	<90.4	<75	<84.3	<75	<75	<75	<75

Notes: VOCs = Volatile Organic Compounds

ug/kg = Micrograms per kilogram. -- = No generic RCL established.

^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E10T									
	Direct Contact Pathway		Groundwater Pathway	10T-SW-17	10T-SW-18	10T-SW-19	10T-SW-20	10T-SW-21	10T-SW-22	10T-SW-23	10T-SW-24	10T-SW-25	10T-SW-26
	Non-Industrial	Industrial		6 ft 11/4/2016	6 ft 11/4/2016	6 ft 11/22/2016	6 ft 11/22/2016	6 ft 11/22/2016	6 ft 11/22/2016	6 ft 11/22/2016	6 ft 11/22/2016	6 ft 11/22/2016	6 ft 11/22/2016
VOCs (µg/kg)					Excavated 04-18-17	Excavated 04-18-17	Excavated 04-18-17	Excavated 04-18-17	Excavated 04-18-17	Excavated 04-18-17	Excavated 04-18-17	Excavated 04-18-17	
1,1,1-Trichloroethane	640,000	640,000	140.2	272 ^C	74.3 ^J	61 ^J	<206	<25	62.1 ^J	<26	<25	<29.8	<27.2
1,1,2-Trichloroethane	1,590	7,010	3.2	<25	<31.6	<29.8	273 ^{JC}	<25	<25	<26	<25	<29.8	<27.2
1,1-Dichloroethane	5,060	22,200	483.40	<25	<31.6	<29.8	<206	<25	<25	<26	<25	<29.8	<27.2
1,1-Dichloroethene	320,000	1,190,000	5	<25	<31.6	<29.8	<206	<25	<25	<26	<25	<29.8	<27.2
1,2,4-Trichlorobenzene	24,000	113,000	408	<47.6	<60.2	<56.6	<392	<47.6	<47.6	<49.5	<47.6	<56.6	<51.7
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<25	<31.6	<29.8	<206	<25	<25	<26	<25	<29.8	<27.2
1,2-Dichlorobenzene	376,000	376,000	1168	<25	<31.6	<29.8	<206	<25	<25	<26	<25	<29.8	<27.2
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<25	<31.6	<29.8	<206	<25	<25	<26	<25	<29.8	<27.2
1,3-Dichlorobenzene	297,000	297,000	1152.8	<25	<31.6	<29.8	<206	<25	<25	<26	<25	<29.8	<27.2
1,4-Dichlorobenzene	3,740	16,400	144	<25	<31.6	<29.8	<206	<25	<25	<26	<25	<29.8	84.9 ^J
Benzene	1,600	7,070	5.1	<25	<31.6	<29.8	<206	<25	<25	<26	<25	109 ^C	<27.2
Chlorobenzene	370,000	761,000	136	<25	<31.6	<29.8	<206	<25	<25	<26	<25	<29.8	<27.2
Chloroform	454	1,980	3.3	<46.4	<58.8	<55.3	<383	<46.4	<46.4	<48.4	<46.4	<55.3	<50.5
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<25	<31.6	73.3 ^{JC}	<206	2300 ^C	<25	<26	4660 ^C	718 ^C	<27.2
Ethylbenzene	8,020	35,400	1570	<25	<31.6	<29.8	<206	<25	<25	<26	<25	<29.8	48.1 ^J
Hexachlorobutadiene	1,630	7,190	--	<25	<31.6	<29.8	<206	<25	<25	<26	<25	<29.8	<27.2
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<31.6	<29.8	<206	<25	<25	<26	<25	<29.8	<27.2
Methylene Chloride	61,800	1,150,000	2.6	<25	<31.6	<29.8	<206	<25	<25	<26	<25	<29.8	<27.2
n-Butylbenzene	108,000	108,000	--	<25	<31.6	<29.8	<206	<25	<25	<26	<25	<29.8	<27.2
n-Propylbenzene	264,000	264,000	--	<25	<31.6	<29.8	<206	<25	<25	<26	<25	<29.8	<27.2
Naphthalene	5,520	24,100	658.2	<40	<50.7	<47.7	<330	<40	<40	<41.7	<40	<47.7	90.8 ^J
p-Isopropyltoluene	162,000	162,000	--	<25	<31.6	<29.8	<206	<25	<25	<26	<25	<29.8	<27.2
sec-Butylbenzene	145,000	145,000	--	<25	<31.6	<29.8	<206	<25	<25	<26	<25	<29.8	<27.2
tert-Butylbenzene	183,000	183,000	--	<25	<31.6	<29.8	<206	<25	<25	<26	<25	<29.8	<27.2
Tetrachloroethene	33,000	145,000	4.5	<25	<31.6	<29.8	333 ^{JC}	<25	<25	<26	<25	<29.8	<27.2
Toluene	818,000	818,000	1107.2	<25	<31.6	<29.8	<206	<25	<25	<26	<25	<29.8	79.7 ^J
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<25	<31.6	<29.8	<206	122 ^C	<25	<26	203 ^C	71.6 ^{JC}	<27.2
Trichloroethene	1,300	8,410	3.6	595 ^C	712 ^C	4790 ^{AC}	22200 ^{ABC}	4670 ^{AC}	7990 ^{AC}	5640 ^{AC}	9090 ^{ABC}	7300 ^{AC}	747 ^C
Vinyl chloride	67	2,080	0.1	<25	<31.6	<29.8	<206	<25	<25	<26	<25	<29.8	<27.2
Xylene (Total)	260,000	260,000	3,960	<75	<94.9	<89.3	<619	<75	<75	<78.1	<75	<89.3	265

Notes: VOCs = Volatile Organic Compounds

ug/kg = Micrograms per kilogram. -- = No generic RCL established.

^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E10T									
	Direct Contact Pathway		Groundwater Pathway	10T-SW-27	10T-SW-28	10T-SW-29	10T-SW-30	10T-SW-31	10T-SW-32	10T-SW-33	10T-SW-34	10T-SW-35	10T-SW-36
	Non-Industrial	Industrial		6 ft 11/29/2016	6 ft 4/18/2017	6 ft 4/18/2017	6 ft 4/19/2017	6 ft 4/19/2017	6 ft 4/19/2017	6 ft 4/19/2017	6 ft 4/19/2017	6 ft 4/19/2017	6 ft 4/19/2017
VOCs (µg/kg)					Excavated 05-11-17	Excavated 05-11-17	Excavated 05-11-17	Excavated 05-11-17	Excavated 05-11-17	Excavated 05-11-17		Excavated 06-01-17	
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25.8	<25.0	<25.0	<26.0	<52.1	<110	<25.0	<26.3	<25.0
1,1,2-Trichloroethane	1,590	7,010	3.2	<25	<25.8	<25.0	<25.0	<26.0	<52.1	<110	<25.0	<26.3	<25.0
1,1-Dichloroethane	5,060	22,200	483.40	<25	<25.8	<25.0	<25.0	<26.0	<52.1	<110	<25.0	<26.3	<25.0
1,1-Dichloroethene	320,000	1,190,000	5	<25	<25.8	<25.0	<25.0	<26.0	<52.1	<110	<25.0	<26.3	<25.0
1,2,4-Trichlorobenzene	24,000	113,000	408	<47.6	<49.0	<47.6	<47.6	<49.5	<99.1	<209	<47.6	<50.1	<47.6
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<25	<25.8	<25.0	<25.0	<26.0	<52.1	<110	<25.0	<26.3	<25.0
1,2-Dichlorobenzene	376,000	376,000	1168	<25	<25.8	<25.0	<25.0	<26.0	<52.1	<110	<25.0	<26.3	<25.0
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<25	<25.8	<25.0	<25.0	<26.0	<52.1	<110	<25.0	<26.3	<25.0
1,3-Dichlorobenzene	297,000	297,000	1152.8	<25	<25.8	<25.0	<25.0	<26.0	<52.1	<110	<25.0	<26.3	<25.0
1,4-Dichlorobenzene	3,740	16,400	144	<25	<25.8	<25.0	<25.0	<26.0	<52.1	<110	<25.0	<26.3	<25.0
Benzene	1,600	7,070	5.1	<25	<25.8	<25.0	<25.0	<26.0	<52.1	<110	<25.0	<26.3	<25.0
Chlorobenzene	370,000	761,000	136	<25	<25.8	<25.0	<25.0	<26.0	<52.1	<110	<25.0	<26.3	<25.0
Chloroform	454	1,980	3.3	<46.4	<47.9	<46.4	<46.4	<48.4	<96.8	<204	<46.4	<48.9	<46.4
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<25	719 ^C	<25.0	<25.0	<26.0	1620 ^C	27500 ^C	90.1 ^C	35.8 ^J	<25.0
Ethylbenzene	8,020	35,400	1570	<25	<25.8	<25.0	<25.0	<26.0	<52.1	<110	<25.0	<26.3	<25.0
Hexachlorobutadiene	1,630	7,190	--	<25	<25.8	<25.0	<25.0	<26.0	<52.1	<110	<25.0	<26.3	<25.0
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25.8	<25.0	<25.0	<26.0	<52.1	<110	<25.0	<26.3	<25.0
Methylene Chloride	61,800	1,150,000	2.6	<25	<25.8	<25.0	<25.0	<26.0	<52.1	<110	<25.0	<26.3	<25.0
n-Butylbenzene	108,000	108,000	--	<25	<25.8	<25.0	<25.0	<26.0	<52.1	<110	<25.0	<26.3	<25.0
n-Propylbenzene	264,000	264,000	--	<25	<25.8	<25.0	<25.0	<26.0	<52.1	<110	<25.0	<26.3	<25.0
Naphthalene	5,520	24,100	658.2	53.3 ^J	<41.3	<40.0	<40.0	<41.7	<83.4	<176	<40.0	<42.2	<40.0
p-Isopropyltoluene	162,000	162,000	--	<25	<25.8	<25.0	<25.0	<26.0	<52.1	<110	<25.0	<26.3	<25.0
sec-Butylbenzene	145,000	145,000	--	<25	<25.8	<25.0	<25.0	<26.0	<52.1	<110	<25.0	<26.3	<25.0
tert-Butylbenzene	183,000	183,000	--	<25	<25.8	<25.0	<25.0	<26.0	<52.1	<110	<25.0	<26.3	<25.0
Tetrachloroethene	33,000	145,000	4.5	<25	<25.8	<25.0	<25.0	<26.0	<52.1	<110	<25.0	56.2 ^{JC}	<25.0
Toluene	818,000	818,000	1107.2	<25	<25.8	<25.0	<25.0	<26.0	<52.1	<110	<25.0	<26.3	<25.0
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<25	75.2 ^C	<25.0	<25.0	<26.0	214 ^C	2470 ^C	107 ^C	<26.3	<25.0
Trichloroethene	1,300	8,410	3.6	<25	3000 ^{AC}	916 ^C	8740 ^{ABC}	4180 ^{AC}	16200 ^{ABC}	341 ^C	454 ^C	5840 ^{AC}	<25.0
Vinyl chloride	67	2,080	0.1	<25	<25.8	<25.0	<25.0	<26.0	<52.1	244 ^{JAC}	<25.0	<26.3	<25.0
Xylene (Total)	260,000	260,000	3,960	<75	<77.3	<75.0	<75.0	<78.1	<156	<330	<75.0	<78.9	<75.0

Notes: VOCs = Volatile Organic Compounds

µg/kg = Micrograms per kilogram. -- = No generic RCL established.

^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E10T									E15T
	Direct Contact Pathway		Groundwater Pathway	10T-SW-37	10T-SW-38	10T-SW-39	10T-SW-40	10T-SW-41	10T-SW-42	10T-SW-43	10T-SW-43B	10T-SW-44	15T-B-1
	Non-Industrial	Industrial		6 ft 5/11/2017	6 ft 5/8/2017	6 ft 5/8/2017	6 ft 5/9/2017	6 ft 5/9/2017	6 ft 5/8/2017	6 ft 5/8/2017	6 ft 6/1/2017	6 ft 6/1/2017	6 ft 11/9/2016
VOCs (µg/kg)						Excavated 06-01-17			Excavated 06-01-17	Excavated 06-01-17			
1,1,1-Trichloroethane	640,000	640,000	140.2	<25.0	<25.0	39.4 ^J	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.3
1,1,2-Trichloroethane	1,590	7,010	3.2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.3
1,1-Dichloroethane	5,060	22,200	483.40	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.3
1,1-Dichloroethene	320,000	1,190,000	5	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.3
1,2,4-Trichlorobenzene	24,000	113,000	408	<47.6	<47.6	<47.6	<47.6	<47.6	<47.6	<47.6	<47.6	<47.6	<48
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	6970^C
1,2-Dichlorobenzene	376,000	376,000	1168	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.3
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1850^C
1,3-Dichlorobenzene	297,000	297,000	1152.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.3
1,4-Dichlorobenzene	3,740	16,400	144	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.3
Benzene	1,600	7,070	5.1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	65.7^{JC}
Chlorobenzene	370,000	761,000	136	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.3
Chloroform	454	1,980	3.3	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4	<46.9
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<25.0	<25.0	172^C	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	35.0^J
Ethylbenzene	8,020	35,400	1570	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	2240^C
Hexachlorobutadiene	1,630	7,190	--	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.3
Isopropylbenzene (Cumene)	268,000	268,000	--	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	611
Methylene Chloride	61,800	1,150,000	2.6	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.3
n-Butylbenzene	108,000	108,000	--	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	699
n-Propylbenzene	264,000	264,000	--	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1040
Naphthalene	5,520	24,100	658.2	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	2670^C
p-Isopropyltoluene	162,000	162,000	--	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	497
sec-Butylbenzene	145,000	145,000	--	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	167
tert-Butylbenzene	183,000	183,000	--	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.3
Tetrachloroethene	33,000	145,000	4.5	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.3
Toluene	818,000	818,000	1107.2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	173
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.3
Trichloroethene	1,300	8,410	3.6	363^C	<25.0	2990^{AC}	209^C	292^C	3510^{AC}	578^C	84.8^C	<25.0	<25.3
Vinyl chloride	67	2,080	0.1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.3
Xylene (Total)	260,000	260,000	3,960	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	4830^C

Notes: VOCs = Volatile Organic Compounds

ug/kg = Micrograms per kilogram. -- = No generic RCL established.

^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E15T				E16T					
	Direct Contact Pathway		Groundwater Pathway	15T-SW-1	15T-SW-2	15T-SW-3	15T-SW-4	16T-B-1	16T-B-2	16T-SW-1	16T-SW-2	16T-SW-3	16T-SW-4
	Non-Industrial	Industrial		3 ft 11/9/2016	3 ft 11/9/2016	3 ft 11/9/2016	3 ft 11/9/2016	12 ft 11/10/2016	12 ft 11/10/2016	6 ft 11/9/2016	6 ft 11/10/2016	6 ft 11/10/2016	6 ft 11/10/2016
VOCs (µg/kg)						Removed with adjacent excavation				Excavated 04-11-17			Excavated 04-11-17
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<27.2	<26.6	<26	<125	<255	<25	<26.3	<25	<625
1,1,2-Trichloroethane	1,590	7,010	3.2	<25	<27.2	<26.6	<26	<125	<255	<25	<26.3	<25	<625
1,1-Dichloroethane	5,060	22,200	483.40	<25	<27.2	<26.6	<26	<125	<255	<25	<26.3	<25	<625
1,1-Dichloroethene	320,000	1,190,000	5	<25	<27.2	<26.6	<26	<125	<255	<25	<26.3	<25	<625
1,2,4-Trichlorobenzene	24,000	113,000	408	<47.6	<51.7	<50.6	<49.5	<238	<485	<47.6	<50.1	<47.6	<1190
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<25	<27.2	<26.6	<26	<125	<255	<25	<26.3	<25	<625
1,2-Dichlorobenzene	376,000	376,000	1168	<25	<27.2	<26.6	<26	<125	<255	<25	<26.3	<25	<625
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<25	<27.2	<26.6	<26	<125	<255	<25	<26.3	<25	<625
1,3-Dichlorobenzene	297,000	297,000	1152.8	<25	<27.2	<26.6	<26	<125	<255	<25	<26.3	<25	<625
1,4-Dichlorobenzene	3,740	16,400	144	<25	<27.2	<26.6	<26	<125	<255	<25	<26.3	<25	<625
Benzene	1,600	7,070	5.1	<25	<27.2	<26.6	<26	405^C	<255	<25	<26.3	<25	<625
Chlorobenzene	370,000	761,000	136	<25	<27.2	<26.6	<26	<125	<255	<25	<26.3	<25	<625
Chloroform	454	1,980	3.3	<46.4	<50.5	<49.4	<48.4	<232	<474	<46.4	<48.9	<46.4	<1160
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<25	<27.2	<26.6	<26	15800^C	2670^C	269^C	<26.3	<25	795^{JC}
Ethylbenzene	8,020	35,400	1570	<25	<27.2	<26.6	<26	<125	<255	<25	<26.3	<25	<625
Hexachlorobutadiene	1,630	7,190	--	<25	<27.2	<26.6	<26	<125	<255	<25	<26.3	<25	<625
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<27.2	<26.6	<26	<125	<255	<25	<26.3	<25	<625
Methylene Chloride	61,800	1,150,000	2.6	<25	<27.2	<26.6	<26	<125	<255	<25	<26.3	<25	<625
n-Butylbenzene	108,000	108,000	--	<25	<27.2	<26.6	<26	<125	<255	<25	<26.3	<25	<625
n-Propylbenzene	264,000	264,000	--	<25	<27.2	<26.6	<26	<125	<255	<25	<26.3	<25	<625
Naphthalene	5,520	24,100	658.2	<40	<43.5	62.8 ^J	<41.7	<200	<409	<40	<42.2	<40	<1000
p-Isopropyltoluene	162,000	162,000	--	<25	<27.2	<26.6	<26	<125	<255	<25	<26.3	<25	<625
sec-Butylbenzene	145,000	145,000	--	<25	<27.2	<26.6	<26	<125	<255	<25	<26.3	<25	<625
tert-Butylbenzene	183,000	183,000	--	<25	<27.2	<26.6	<26	<125	<255	<25	<26.3	<25	<625
Tetrachloroethene	33,000	145,000	4.5	<25	<27.2	<26.6	<26	<125	<255	<25	<26.3	<25	<625
Toluene	818,000	818,000	1107.2	<25	<27.2	<26.6	<26	<125	<255	<25	<26.3	<25	<625
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<25	<27.2	<26.6	<26	<125	<255	88.3^C	<26.3	<25	<625
Trichloroethene	1,300	8,410	3.6	<25	<27.2	2060^{AC}	28.1^{JC}	21500^{ABC}	30600^{ABC}	6560^{AC}	74.1^{JC}	<25	68200^{ABC}
Vinyl chloride	67	2,080	0.1	<25	<27.2	<26.6	<26	304^{JAC}	<255	<25	<26.3	<25	<625
Xylene (Total)	260,000	260,000	3,960	<75	<81.5	<79.8	<78.1	<375	<765	<75	<78.9	<75	<1880

Notes: VOCs = Volatile Organic Compounds

ug/kg = Micrograms per kilogram. -- = No generic RCL established.

^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E16T							E17T		
	Direct Contact Pathway		Groundwater Pathway	16T-SW-5	16T-SW-6	16T-SW-7	16T-SW-8	16T-SW-9	16T-SW-10	16T-SW-11	17T-B-1	17T-B-2	17T-B-3
	Non-Industrial	Industrial		6 ft 11/10/2016	6 ft 11/10/2016	6 ft 4/11/2017	6 ft 4/11/2017	6 ft 4/18/2017	6 ft 4/24/2017	6 ft 4/24/2017	12 ft 4/17/2017	12 ft 4/17/2017	12 ft 4/12/2017
VOCs (µg/kg)				Excavated 04-11-17		Excavated 04-24-17	Excavated 04-24-17						
1,1,1-Trichloroethane	640,000	640,000	140.2	<52.1	<27.5	<25.0	<32.1	<50.0	<32.9	<25.0	<25.0	<25.0	<62.5
1,1,2-Trichloroethane	1,590	7,010	3.2	<52.1	<27.5	<25.0	<32.1	<50.0	<32.9	<25.0	<25.0	<25.0	<62.5
1,1-Dichloroethane	5,060	22,200	483.40	<52.1	<27.5	<25.0	<32.1	<50.0	<32.9	<25.0	<25.0	<25.0	<62.5
1,1-Dichloroethene	320,000	1,190,000	5	<52.1	<27.5	<25.0	<32.1	<50.0	<32.9	<25.0	<25.0	<25.0	<62.5
1,2,4-Trichlorobenzene	24,000	113,000	408	<99.1	<52.3	<47.6	<61.0	<95.1	<62.6	<47.6	<47.6	<47.6	<119
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<52.1	<27.5	<25.0	<32.1	1320	<32.9	<25.0	<25.0	<25.0	<62.5
1,2-Dichlorobenzene	376,000	376,000	1168	<52.1	<27.5	<25.0	<32.1	<50.0	<32.9	<25.0	<25.0	<25.0	<62.5
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<52.1	<27.5	<25.0	<32.1	186	<32.9	<25.0	<25.0	<25.0	<62.5
1,3-Dichlorobenzene	297,000	297,000	1152.8	<52.1	<27.5	<25.0	<32.1	<50.0	<32.9	<25.0	<25.0	<25.0	<62.5
1,4-Dichlorobenzene	3,740	16,400	144	<52.1	<27.5	<25.0	<32.1	<50.0	<32.9	<25.0	<25.0	<25.0	<62.5
Benzene	1,600	7,070	5.1	<52.1	<27.5	<25.0	<32.1	<50.0	<32.9	<25.0	<25.0	<25.0	<62.5
Chlorobenzene	370,000	761,000	136	<52.1	<27.5	<25.0	<32.1	<50.0	<32.9	<25.0	<25.0	<25.0	<62.5
Chloroform	454	1,980	3.3	<96.8	<51	<46.4	<59.5	<92.9	<61.1	<46.4	<46.4	<46.4	<116
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	95 ^{JC}	<27.5	<25.0	<32.1	<50.0	<32.9	487 ^C	3560 ^C	5720 ^C	16000 ^C
Ethylbenzene	8,020	35,400	1570	<52.1	<27.5	<25.0	<32.1	981	<32.9	<25.0	<25.0	<25.0	<62.5
Hexachlorobutadiene	1,630	7,190	--	<52.1	<27.5	<25.0	<32.1	<50.0	<32.9	<25.0	<25.0	<25.0	<62.5
Isopropylbenzene (Cumene)	268,000	268,000	--	<52.1	<27.5	<25.0	<32.1	1020	<32.9	<25.0	<25.0	<25.0	<62.5
Methylene Chloride	61,800	1,150,000	2.6	<52.1	<27.5	<25.0	<32.1	<50.0	<32.9	<25.0	<25.0	<25.0	<62.5
n-Butylbenzene	108,000	108,000	--	<52.1	<27.5	<25.0	<32.1	677	<32.9	<25.0	<25.0	<25.0	<62.5
n-Propylbenzene	264,000	264,000	--	<52.1	<27.5	<25.0	<32.1	1760	<32.9	<25.0	<25.0	<25.0	<62.5
Naphthalene	5,520	24,100	658.2	<83.4	<44	<40.0	<51.3	162 ^J	<52.7	<40.0	<40.0	<40.0	<100
p-Isopropyltoluene	162,000	162,000	--	<52.1	<27.5	<25.0	<32.1	389	<32.9	<25.0	<25.0	<25.0	<62.5
sec-Butylbenzene	145,000	145,000	--	<52.1	<27.5	<25.0	<32.1	434	<32.9	<25.0	<25.0	<25.0	<62.5
tert-Butylbenzene	183,000	183,000	--	<52.1	<27.5	<25.0	<32.1	<50.0	<32.9	<25.0	<25.0	<25.0	<62.5
Tetrachloroethene	33,000	145,000	4.5	<52.1	<27.5	<25.0	<32.1	<50.0	<32.9	<25.0	<25.0	<25.0	<62.5
Toluene	818,000	818,000	1107.2	<52.1	<27.5	<25.0	<32.1	<50.0	<32.9	<25.0	<25.0	<25.0	<62.5
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<52.1	<27.5	<25.0	<32.1	<50.0	<32.9	63.8 ^{JC}	786 ^C	1220 ^C	1030 ^C
Trichloroethene	1,300	8,410	3.6	9020 ^{ABC}	<27.5	2540 ^{AC}	8820 ^{ABC}	<50.0	733 ^C	248 ^C	<25.0	45.6 ^{JC}	2540 ^{AC}
Vinyl chloride	67	2,080	0.1	<52.1	<27.5	<25.0	<32.1	<50.0	<32.9	<25.0	<25.0	<25.0	200 ^{AC}
Xylene (Total)	260,000	260,000	3,960	<156	<82.4	<75.0	<96.2	<150	<98.7	<75.0	<75.0	<75.0	<187.5

Notes: VOCs = Volatile Organic Compounds

ug/kg = Micrograms per kilogram. -- = No generic RCL established.

^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E17T									
	Direct Contact Pathway		Groundwater Pathway	17T-B-4	17T-B-5	17T-B-6	17T-SW-1	17T-SW-2	17T-SW-3	17T-SW-4	17T-SW-5	17T-SW-6	17T-SW-7
	Non-Industrial	Industrial		12 ft	12 ft	12 ft	6 ft	6 ft	6 ft	6 ft	6 ft	6 ft	6 ft
			4/12/2017	4/12/2017	4/12/2017	4/18/2017	4/17/2017	4/17/2017	4/17/2017	4/17/2017	4/12/2017	4/12/2017	4/12/2017
VOCs (µg/kg)													
1,1,1-Trichloroethane	640,000	640,000	140.2	<25.0	<25.0	<25.0	<26.3	<25.8	<25.0	<30.1	<25.0	<27.8	<25.0
1,1,2-Trichloroethane	1,590	7,010	3.2	<25.0	<25.0	<25.0	<26.3	<25.8	<25.0	<30.1	<25.0	<27.8	<25.0
1,1-Dichloroethane	5,060	22,200	483.40	<25.0	<25.0	<25.0	<26.3	<25.8	<25.0	<30.1	<25.0	<27.8	<25.0
1,1-Dichloroethene	320,000	1,190,000	5	<25.0	<25.0	<25.0	<26.3	<25.8	<25.0	<30.1	<25.0	<27.8	<25.0
1,2,4-Trichlorobenzene	24,000	113,000	408	<47.6	<47.6	<47.6	<50.1	<49.0	<47.6	<57.3	<47.6	<52.8	<47.6
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<25.0	<25.0	<25.0	<26.3	<25.8	<25.0	<30.1	<25.0	<27.8	<25.0
1,2-Dichlorobenzene	376,000	376,000	1168	<25.0	<25.0	<25.0	<26.3	<25.8	<25.0	<30.1	<25.0	<27.8	50.4^J
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<25.0	<25.0	<25.0	<26.3	<25.8	<25.0	<30.1	<25.0	<27.8	<25.0
1,3-Dichlorobenzene	297,000	297,000	1152.8	<25.0	<25.0	<25.0	<26.3	<25.8	<25.0	<30.1	<25.0	<27.8	<25.0
1,4-Dichlorobenzene	3,740	16,400	144	<25.0	<25.0	<25.0	<26.3	<25.8	<25.0	<30.1	<25.0	<27.8	<25.0
Benzene	1,600	7,070	5.1	<25.0	<25.0	<25.0	<26.3	<25.8	<25.0	<30.1	<25.0	<27.8	<25.0
Chlorobenzene	370,000	761,000	136	<25.0	<25.0	<25.0	<26.3	<25.8	<25.0	<30.1	<25.0	<27.8	<25.0
Chloroform	454	1,980	3.3	<46.4	<46.4	<46.4	<48.9	<47.9	<46.4	<56.0	<46.4	<51.6	<46.4
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	9230^C	61.7^{JC}	118^C	399^C	<25.8	1920^C	2050^C	93.7^C	<27.8	<25.0
Ethylbenzene	8,020	35,400	1570	<25.0	<25.0	<25.0	<26.3	<25.8	<25.0	<30.1	<25.0	<27.8	<25.0
Hexachlorobutadiene	1,630	7,190	--	<25.0	<25.0	<25.0	<26.3	<25.8	<25.0	<30.1	<25.0	<27.8	<25.0
Isopropylbenzene (Cumene)	268,000	268,000	--	<25.0	<25.0	<25.0	<26.3	<25.8	<25.0	<30.1	<25.0	<27.8	<25.0
Methylene Chloride	61,800	1,150,000	2.6	<25.0	<25.0	<25.0	<26.3	<25.8	<25.0	<30.1	<25.0	<27.8	<25.0
n-Butylbenzene	108,000	108,000	--	<25.0	<25.0	<25.0	<26.3	<25.8	<25.0	<30.1	<25.0	<27.8	<25.0
n-Propylbenzene	264,000	264,000	--	<25.0	<25.0	<25.0	<26.3	<25.8	<25.0	<30.1	<25.0	<27.8	<25.0
Naphthalene	5,520	24,100	658.2	<40.0	<40.0	<40.0	<42.2	<41.3	<40.0	<48.2	<40.0	<44.5	<40.0
p-Isopropyltoluene	162,000	162,000	--	<25.0	<25.0	<25.0	<26.3	<25.8	<25.0	<30.1	<25.0	<27.8	<25.0
sec-Butylbenzene	145,000	145,000	--	<25.0	<25.0	<25.0	<26.3	<25.8	<25.0	<30.1	<25.0	<27.8	<25.0
tert-Butylbenzene	183,000	183,000	--	<25.0	<25.0	<25.0	<26.3	<25.8	<25.0	<30.1	<25.0	<27.8	<25.0
Tetrachloroethene	33,000	145,000	4.5	<25.0	<25.0	<25.0	<26.3	<25.8	<25.0	<30.1	<25.0	<27.8	<25.0
Toluene	818,000	818,000	1107.2	<25.0	<25.0	<25.0	<26.3	<25.8	<25.0	<30.1	<25.0	<27.8	<25.0
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	368^C	<25.0	<25.0	<26.3	<25.8	<25.0	533^C	<25.0	<27.8	<25.0
Trichloroethene	1,300	8,410	3.6	2250^{AC}	<25.0	<25.0	577^C	<25.8	<25.0	253^C	<25.0	265^C	<25.0
Vinyl chloride	67	2,080	0.1	136^{AC}	58.2^{JC}	<25.0	<26.3	<25.8	204^{AC}	<30.1	<25.0	<27.8	<25.0
Xylene (Total)	260,000	260,000	3,960	<75.0	<75.0	<75.0	<78.9	<77.3	<75.0	<90.4	<75.0	<83.4	<75.0

Notes: VOCs = Volatile Organic Compounds

µg/kg = Micrograms per kilogram. -- = No generic RCL established.

^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

**Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant**

Parameters	Generic RCLs			E17T			E18T					E20B	
	Direct Contact Pathway		Groundwater Pathway	17T-SW-8	17T-SW-9	17T-SW-10	18T-B-1	18T-SW-1	18T-SW-2	18T-SW-3	18T-SW-4	20B-B-1	20B-B-2
	Non-Industrial	Industrial		6 ft 4/17/2017	6 ft 4/17/2017	6 ft 4/17/2017	4 ft 11/16/2016	2 ft 11/16/2016	2 ft 11/16/2016	2 ft 11/16/2016	2 ft 11/16/2016	12 ft 11/10/2016	12 ft 11/10/2016
VOCs (µg/kg)													
1,1,1-Trichloroethane	640,000	640,000	140.2	<25.0	<25.0	<25.0	<25	<25.3	<26.3	<25.3	<62.5	<25.8	<27.2
1,1,2-Trichloroethane	1,590	7,010	3.2	<25.0	<25.0	<25.0	<25	<25.3	<26.3	<25.3	<62.5	<25.8	<27.2
1,1-Dichloroethane	5,060	22,200	483.40	<25.0	<25.0	<25.0	38.3 ^J	<25.3	<26.3	<25.3	<62.5	<25.8	<27.2
1,1-Dichloroethene	320,000	1,190,000	5	<25.0	<25.0	<25.0	<25	<25.3	<26.3	<25.3	<62.5	<25.8	<27.2
1,2,4-Trichlorobenzene	24,000	113,000	408	<47.6	<47.6	<47.6	<47.6	<48	<50.1	<48	<119	<49	<51.7
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<25.0	<25.0	<25.0	108	52.9 ^J	<26.3	185	996	<25.8	<27.2
1,2-Dichlorobenzene	376,000	376,000	1168	<25.0	<25.0	<25.0	<25	<25.3	<26.3	<25.3	<62.5	<25.8	<27.2
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<25.0	<25.0	<25.0	88.1	<25.3	<26.3	171	742	<25.8	<27.2
1,3-Dichlorobenzene	297,000	297,000	1152.8	<25.0	<25.0	<25.0	<25	<25.3	<26.3	<25.3	<62.5	<25.8	<27.2
1,4-Dichlorobenzene	3,740	16,400	144	<25.0	<25.0	<25.0	<25	<25.3	<26.3	<25.3	<62.5	<25.8	<27.2
Benzene	1,600	7,070	5.1	<25.0	<25.0	<25.0	<25	<25.3	<26.3	<25.3	82.5 ^{JC}	55.2 ^{JC}	68.8 ^{JC}
Chlorobenzene	370,000	761,000	136	<25.0	<25.0	<25.0	<25	<25.3	<26.3	<25.3	<62.5	<25.8	<27.2
Chloroform	454	1,980	3.3	<46.4	<46.4	<46.4	<46.4	<46.9	<48.9	<46.9	<116	<47.9	<50.5
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	947 ^C	115 ^C	<25.0	43.1 ^{JC}	<25.3	<26.3	<25.3	169 ^{JC}	<25.8	312 ^C
Ethylbenzene	8,020	35,400	1570	<25.0	<25.0	<25.0	<25	38.5 ^J	<26.3	<25.3	175	<25.8	<27.2
Hexachlorobutadiene	1,630	7,190	--	<25.0	<25.0	<25.0	<25	<25.3	<26.3	<25.3	<62.5	<25.8	<27.2
Isopropylbenzene (Cumene)	268,000	268,000	--	<25.0	<25.0	<25.0	<25	<25.3	<26.3	<25.3	93.3 ^J	<25.8	<27.2
Methylene Chloride	61,800	1,150,000	2.6	<25.0	<25.0	<25.0	<25	<25.3	<26.3	<25.3	<62.5	56.6 ^{JC}	52.3 ^{JC}
n-Butylbenzene	108,000	108,000	--	<25.0	<25.0	<25.0	<25	<25.3	<26.3	<25.3	<62.5	<25.8	<27.2
n-Propylbenzene	264,000	264,000	--	<25.0	<25.0	<25.0	<25	<25.3	<26.3	<25.3	172 ^J	<25.8	<27.2
Naphthalene	5,520	24,100	658.2	<40.0	<40.0	<40.0	113 ^J	74.5 ^J	<42.2	<40.4	1970 ^C	<41.3	<43.5
p-Isopropyltoluene	162,000	162,000	--	<25.0	<25.0	<25.0	<25	<25.3	<26.3	<25.3	168 ^J	<25.8	<27.2
sec-Butylbenzene	145,000	145,000	--	<25.0	<25.0	<25.0	<25	<25.3	<26.3	34.5 ^J	155 ^J	<25.8	<27.2
tert-Butylbenzene	183,000	183,000	--	<25.0	<25.0	<25.0	<25	<25.3	<26.3	<25.3	<62.5	<25.8	<27.2
Tetrachloroethene	33,000	145,000	4.5	<25.0	<25.0	<25.0	<25	<25.3	<26.3	<25.3	<62.5	<25.8	<27.2
Toluene	818,000	818,000	1107.2	<25.0	<25.0	<25.0	<25	46.2 ^J	<26.3	<25.3	144 ^J	<25.8	<27.2
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	180 ^C	<25.0	<25.0	<25	<25.3	<26.3	<25.3	<62.5	<25.8	40.2 ^J
Trichloroethene	1,300	8,410	3.6	<25.0	185 ^C	821 ^C	<25	<25.3	<26.3	<25.3	105 ^{JC}	<25.8	<27.2
Vinyl chloride	67	2,080	0.1	<25.0	<25.0	<25.0	<25	<25.3	<26.3	<25.3	<62.5	332 ^{AC}	<27.2
Xylene (Total)	260,000	260,000	3,960	<75.0	<75.0	<75.0	234	123 ^J	<78.9	123 ^J	625	<77.3	<81.5

Notes: VOCs = Volatile Organic Compounds
µg/kg = Micrograms per kilogram. -- = No generic RCL established.
^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E20B								E21T	
	Direct Contact Pathway		Groundwater Pathway	20B-SW-1	20B-SW-2	20B-SW-3	20B-SW-4	20B-SW-5	20B-SW-6	20B-SW-7	20B-SW-8	21T-B-1	21T-B-2
	Non-Industrial	Industrial		6 ft 11/10/2016	6 ft 11/10/2016	6 ft 11/10/2016	6 ft 11/10/2016	6 ft 11/10/2016	6 ft 11/11/2016	6 ft 11/11/2016	6 ft 11/11/2016	12 ft 11/8/2016	12 ft 11/8/2016
VOCs (µg/kg)													
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<26.6	<25.3	<27.2	<28.4	<27.5	<25.8	<25	<27.8	<25
1,1,2-Trichloroethane	1,590	7,010	3.2	<25	<26.6	<25.3	<27.2	<28.4	<27.5	<25.8	<25	<27.8	<25
1,1-Dichloroethane	5,060	22,200	483.40	<25	<26.6	29.5 ^J	<27.2	<28.4	<27.5	<25.8	<25	129	<25
1,1-Dichloroethene	320,000	1,190,000	5	<25	<26.6	<25.3	<27.2	<28.4	<27.5	<25.8	<25	<27.8	<25
1,2,4-Trichlorobenzene	24,000	113,000	408	<47.6	<50.6	<48	<51.7	<54	<52.3	<49	<47.6	<52.8	<47.6
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<25	<26.6	<25.3	<27.2	<28.4	<27.5	<25.8	<25	<27.8	<25
1,2-Dichlorobenzene	376,000	376,000	1168	<25	<26.6	<25.3	<27.2	<28.4	<27.5	<25.8	<25	<27.8	<25
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<25	<26.6	<25.3	<27.2	<28.4	<27.5	<25.8	<25	<27.8	<25
1,3-Dichlorobenzene	297,000	297,000	1152.8	<25	<26.6	<25.3	<27.2	<28.4	<27.5	<25.8	<25	<27.8	<25
1,4-Dichlorobenzene	3,740	16,400	144	<25	<26.6	<25.3	<27.2	<28.4	<27.5	<25.8	<25	<27.8	<25
Benzene	1,600	7,070	5.1	<25	<26.6	<25.3	<27.2	<28.4	<27.5	<25.8	<25	315 ^C	54.7 ^{JC}
Chlorobenzene	370,000	761,000	136	<25	<26.6	<25.3	<27.2	<28.4	<27.5	<25.8	<25	<27.8	<25
Chloroform	454	1,980	3.3	<46.4	<49.4	<46.9	<50.5	<52.8	<51	<47.9	<46.4	<51.6	<46.4
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<25	<26.6	109 ^C	<27.2	<28.4	<27.5	<25.8	<25	<27.8	<25
Ethylbenzene	8,020	35,400	1570	<25	<26.6	<25.3	<27.2	<28.4	<27.5	<25.8	<25	45.7 ^J	<25
Hexachlorobutadiene	1,630	7,190	--	<25	<26.6	<25.3	<27.2	<28.4	<27.5	<25.8	<25	<27.8	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<26.6	<25.3	<27.2	<28.4	<27.5	<25.8	<25	<27.8	<25
Methylene Chloride	61,800	1,150,000	2.6	52.5 ^{JC}	64.3 ^{JC}	71 ^C	35.7 ^{JC}	50.5 ^{JC}	44.6 ^{JC}	88.5 ^C	46.8 ^{JC}	<27.8	<25
n-Butylbenzene	108,000	108,000	--	<25	<26.6	<25.3	<27.2	<28.4	<27.5	<25.8	<25	<27.8	<25
n-Propylbenzene	264,000	264,000	--	<25	<26.6	<25.3	<27.2	<28.4	<27.5	<25.8	<25	<27.8	<25
Naphthalene	5,520	24,100	658.2	<40	<42.6	54 ^J	<43.5	<45.5	<44	<41.3	<40	<44.5	<40
p-Isopropyltoluene	162,000	162,000	--	<25	<26.6	<25.3	<27.2	<28.4	<27.5	<25.8	<25	<27.8	<25
sec-Butylbenzene	145,000	145,000	--	<25	<26.6	<25.3	<27.2	<28.4	<27.5	<25.8	<25	<27.8	<25
tert-Butylbenzene	183,000	183,000	--	<25	<26.6	<25.3	<27.2	<28.4	<27.5	<25.8	<25	<27.8	<25
Tetrachloroethene	33,000	145,000	4.5	<25	<26.6	<25.3	<27.2	<28.4	<27.5	<25.8	<25	<27.8	<25
Toluene	818,000	818,000	1107.2	<25	<26.6	48.7 ^J	<27.2	69.3 ^J	<27.5	<25.8	<25	<27.8	<25
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<25	<26.6	<25.3	<27.2	<28.4	<27.5	<25.8	<25	<27.8	<25
Trichloroethene	1,300	8,410	3.6	<25	<26.6	39.8 ^{JC}	<27.2	<28.4	<27.5	<25.8	<25	<27.8	<25
Vinyl chloride	67	2,080	0.1	<25	<26.6	50.2 ^{JC}	<27.2	<28.4	<27.5	<25.8	<25	<27.8	<25
Xylene (Total)	260,000	260,000	3,960	<75	<79.8	<75.8	<81.5	<85.2	<82.4	<77.3	<75	<83.3	<75

Notes: VOCs = Volatile Organic Compounds

ug/kg = Micrograms per kilogram. -- = No generic RCL established.

^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E21T									
	Direct Contact Pathway		Groundwater Pathway	21T-B-3	21T-SW-1	21T-SW-2	21T-SW-3	21T-SW-4	21T-SW-5	21T-SW-6	21T-SW-7	21T-SW-8	21T-SW-9
	Non-Industrial	Industrial		12 ft 11/9/2016	6 ft 11/8/2016	6 ft 11/8/2016	6 ft 11/8/2016	6 ft 11/8/2016	6 ft 11/8/2016	6 ft 11/8/2016	6 ft 11/8/2016	6 ft 11/9/2016	6 ft 11/9/2016
VOCs (µg/kg)													
1,1,1-Trichloroethane	640,000	640,000	140.2	<30.5	36.8 ^J	<25	<25	<26.3	<25	<25	<27.2	<25.3	<27.8
1,1,2-Trichloroethane	1,590	7,010	3.2	<30.5	<25	<25	<25	<26.3	<25	<25	<27.2	<25.3	<27.8
1,1-Dichloroethane	5,060	22,200	483.40	<30.5	<25	<25	<25	<26.3	<25	<25	<27.2	<25.3	<27.8
1,1-Dichloroethene	320,000	1,190,000	5	<30.5	<25	<25	<25	<26.3	<25	<25	<27.2	<25.3	<27.8
1,2,4-Trichlorobenzene	24,000	113,000	408	<58	<47.6	<47.6	<47.6	<50.1	<47.6	<47.6	<51.7	<48	<52.8
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<30.5	<25	<25	<25	<26.3	<25	5830 ^C	<27.2	<25.3	<27.8
1,2-Dichlorobenzene	376,000	376,000	1168	<30.5	<25	<25	<25	<26.3	<25	<25	<27.2	<25.3	<27.8
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<30.5	<25	<25	<25	<26.3	<25	2320 ^C	<27.2	<25.3	<27.8
1,3-Dichlorobenzene	297,000	297,000	1152.8	<30.5	<25	<25	<25	<26.3	<25	<25	<27.2	<25.3	<27.8
1,4-Dichlorobenzene	3,740	16,400	144	<30.5	<25	<25	<25	<26.3	<25	<25	<27.2	<25.3	<27.8
Benzene	1,600	7,070	5.1	<30.5	<25	<25	<25	<26.3	<25	35.2 ^{JC}	<27.2	<25.3	<27.8
Chlorobenzene	370,000	761,000	136	<30.5	<25	<25	<25	<26.3	<25	<25	<27.2	<25.3	<27.8
Chloroform	454	1,980	3.3	<56.6	<46.4	<46.4	<46.4	<48.9	<46.4	86.7 ^{JC}	<50.5	<46.9	<51.6
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<30.5	<25	<25	<25	<26.3	98 ^C	<25	<27.2	<25.3	<27.8
Ethylbenzene	8,020	35,400	1570	236	<25	<25	<25	<26.3	<25	2660 ^C	<27.2	<25.3	<27.8
Hexachlorobutadiene	1,630	7,190	--	<30.5	<25	34.5 ^J	<25	<26.3	<25	<25	<27.2	<25.3	<27.8
Isopropylbenzene (Cumene)	268,000	268,000	--	381	<25	<25	<25	<26.3	<25	585	<27.2	<25.3	<27.8
Methylene Chloride	61,800	1,150,000	2.6	<30.5	<25	<25	<25	<26.3	<25	<25	<27.2	<25.3	<27.8
n-Butylbenzene	108,000	108,000	--	<30.5	<25	<25	<25	<26.3	<25	1010	<27.2	<25.3	<27.8
n-Propylbenzene	264,000	264,000	--	221	<25	<25	<25	<26.3	<25	1040	<27.2	<25.3	<27.8
Naphthalene	5,520	24,100	658.2	<48.8	<40	<40	<40	<42.2	<40	726 ^C	<43.5	<40.4	<44.5
p-Isopropyltoluene	162,000	162,000	--	<30.5	<25	<25	<25	<26.3	<25	383	<27.2	<25.3	<27.8
sec-Butylbenzene	145,000	145,000	--	40.6 ^J	<25	<25	<25	<26.3	<25	228	<27.2	<25.3	<27.8
tert-Butylbenzene	183,000	183,000	--	<30.5	<25	<25	<25	<26.3	<25	<25	<27.2	<25.3	<27.8
Tetrachloroethene	33,000	145,000	4.5	<30.5	<25	<25	<25	<26.3	<25	<25	<27.2	94.4 ^C	<27.8
Toluene	818,000	818,000	1107.2	<30.5	<25	<25	<25	<26.3	<25	47 ^J	<27.2	<25.3	<27.8
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<30.5	<25	<25	<25	<26.3	<25	<25	<27.2	<25.3	<27.8
Trichloroethene	1,300	8,410	3.6	<30.5	<25	<25	<25	225 ^C	613 ^C	<25	117 ^C	<25.3	<27.8
Vinyl chloride	67	2,080	0.1	<30.5	<25	<25	<25	<26.3	<25	<25	<27.2	<25.3	<27.8
Xylene (Total)	260,000	260,000	3,960	163 ^J	<75	<75	<75	<78.9	<75	3410	<81.5	<75.8	<83.3

Notes: VOCs = Volatile Organic Compounds

ug/kg = Micrograms per kilogram. -- = No generic RCL established.

^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E21T	E22B								
	Direct Contact Pathway		Groundwater Pathway	21T-SW-10 6 ft 11/9/2016	22B-B-1 12 ft 11/7/2016	22B-B-2 12 ft 11/7/2016	22B-B-3 12 ft 11/7/2016	22B-B-4 12 ft 11/7/2016	22B-B-5 12 ft 5/8/2017	22B-SW-1 6 ft 11/7/2016	22B-SW-2 6 ft 11/7/2016	22B-SW-3 6 ft 11/7/2016	22B-SW-4 6 ft 11/7/2016
	Non-Industrial	Industrial		Excavated 04-19-17	Excavated 04-19-17	Excavated 04-19-17							
VOCs (µg/kg)													
1,1,1-Trichloroethane	640,000	640,000	140.2	<28.1	<25.5	<109	<25.3	112	<25.0	<32.5	<27.2	<27.2	<25
1,1,2-Trichloroethane	1,590	7,010	3.2	<28.1	<25.5	<109	<25.3	<25	<25.0	<32.5	<27.2	<27.2	<25
1,1-Dichloroethane	5,060	22,200	483.40	<28.1	<25.5	<109	<25.3	<25	62.6 ^J	<32.5	<27.2	<27.2	<25
1,1-Dichloroethene	320,000	1,190,000	5	<28.1	<25.5	<109	<25.3	<25	<25.0	<32.5	<27.2	<27.2	<25
1,2,4-Trichlorobenzene	24,000	113,000	408	<53.4	<48.5	<207	<48	<47.6	<47.6	<61.8	<51.7	<51.7	<47.6
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<28.1	<25.5	20200 ^C	<25.3	<25	181	<32.5	<27.2	<27.2	2570 ^C
1,2-Dichlorobenzene	376,000	376,000	1168	<28.1	<25.5	<109	<25.3	<25	<25.0	<32.5	<27.2	<27.2	<25
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<28.1	<25.5	7300 ^C	<25.3	<25	74.7	<32.5	<27.2	<27.2	861
1,3-Dichlorobenzene	297,000	297,000	1152.8	<28.1	<25.5	<109	<25.3	<25	<25.0	<32.5	<27.2	<27.2	<25
1,4-Dichlorobenzene	3,740	16,400	144	<28.1	<25.5	<109	<25.3	<25	<25.0	<32.5	<27.2	<27.2	<25
Benzene	1,600	7,070	5.1	<28.1	<25.5	598 ^C	87.6 ^C	<25	<25.0	<32.5	<27.2	<27.2	<25
Chlorobenzene	370,000	761,000	136	<28.1	<25.5	<109	<25.3	<25	<25.0	<32.5	<27.2	<27.2	<25
Chloroform	454	1,980	3.3	<52.2	<47.4	<202	<46.9	<46.4	<46.4	<60.3	<50.5	<50.5	<46.4
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<28.1	2530 ^C	<109	<25.3	67.3 ^{JC}	876 ^C	<32.5	<27.2	<27.2	1010 ^C
Ethylbenzene	8,020	35,400	1570	<28.1	<25.5	156 ^J	<25.3	<25	88.3	<32.5	<27.2	<27.2	2370 ^C
Hexachlorobutadiene	1,630	7,190	--	<28.1	<25.5	<109	<25.3	<25	<25.0	<32.5	<27.2	<27.2	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<28.1	<25.5	19100	<25.3	<25	36.8 ^J	<32.5	<27.2	<27.2	939
Methylene Chloride	61,800	1,150,000	2.6	<28.1	<25.5	<109	<25.3	<25	<25.0	52.6 ^{JC}	<27.2	<27.2	<25
n-Butylbenzene	108,000	108,000	--	<28.1	<25.5	5700	<25.3	<25	<25.0	<32.5	<27.2	<27.2	1060
n-Propylbenzene	264,000	264,000	--	<28.1	<25.5	2560	<25.3	<25	<25.0	<32.5	<27.2	<27.2	198
Naphthalene	5,520	24,100	658.2	<45	<40.9	6900 ^{AC}	<40.4	<40	<40.0	<52	<43.5	<43.5	<40
p-Isopropyltoluene	162,000	162,000	--	<28.1	<25.5	2600	<25.3	<25	<25.0	<32.5	<27.2	<27.2	463
sec-Butylbenzene	145,000	145,000	--	<28.1	<25.5	2230	<25.3	<25	<25.0	<32.5	<27.2	<27.2	301
tert-Butylbenzene	183,000	183,000	--	<28.1	<25.5	<109	<25.3	<25	<25.0	<32.5	<27.2	<27.2	40.5 ^J
Tetrachloroethene	33,000	145,000	4.5	<28.1	<25.5	<109	<25.3	163 ^C	<25.0	<32.5	<27.2	<27.2	<25
Toluene	818,000	818,000	1107.2	<28.1	<25.5	<109	<25.3	<25	33.0 ^J	<32.5	<27.2	<27.2	171
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<28.1	37.2 ^J	<109	<25.3	<25	<25.0	<32.5	<27.2	<27.2	<25
Trichloroethene	1,300	8,410	3.6	<28.1	<25.5	<109	87.6 ^C	3940 ^{AC}	<25.0	1160 ^C	462 ^C	145 ^C	1070 ^C
Vinyl chloride	67	2,080	0.1	<28.1	53.3 ^{JC}	<109	<25.3	<25	219 ^{AC}	<32.5	<27.2	<27.2	427 ^{AC}
Xylene (Total)	260,000	260,000	3,960	<84.3	<76.5	16000 ^C	<75.8	<75	707	<97.4	<81.5	<81.5	236

Notes: VOCs = Volatile Organic Compounds

ug/kg = Micrograms per kilogram. -- = No generic RCL established.

^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E22B									
	Direct Contact Pathway		Groundwater Pathway	22B-SW-5	22B-SW-6	22B-SW-7	22B-SW-8	22B-SW-9	22B-SW-10	22B-SW-11	22B-SW-12	22B-SW-13	22B-SW-14
	Non-Industrial	Industrial		6 ft 11/7/2016	6 ft 11/7/2016	6 ft 11/8/2016	6 ft 11/8/2016	6 ft 4/19/2017	6 ft 4/19/2017	6 ft 4/20/2017	6 ft 4/20/2017	6 ft 4/21/2017	6 ft 4/20/2017
VOCs (µg/kg)					Excavated 04-19-17						Excavated 04-19-17	Excavated 05-09-17	
1,1,1-Trichloroethane	640,000	640,000	140.2	<27.5	<26	<25	<25	<100	<25.3	<25.0	<25.8	<50.0	<25.0
1,1,2-Trichloroethane	1,590	7,010	3.2	<27.5	60.6 ^{JC}	<25	<25	<100	<25.3	<25.0	<25.8	<50.0	<25.0
1,1-Dichloroethane	5,060	22,200	483.40	<27.5	<26	<25	<25	<100	<25.3	<25.0	<25.8	<50.0	<25.0
1,1-Dichloroethene	320,000	1,190,000	5	<27.5	<26	<25	<25	<100	<25.3	<25.0	<25.8	<50.0	<25.0
1,2,4-Trichlorobenzene	24,000	113,000	408	<52.3	<49.5	<47.6	<47.6	<190	<48.0	<47.6	<49.0	<95.1	<47.6
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	130	<26	<25	<25	4660 ^C	235	<25.0	<25.8	<50.0	<25.0
1,2-Dichlorobenzene	376,000	376,000	1168	140	<26	<25	<25	<100	<25.3	<25.0	<25.8	<50.0	<25.0
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	163	<26	<25	<25	1820 ^C	74.5	<25.0	<25.8	<50.0	<25.0
1,3-Dichlorobenzene	297,000	297,000	1152.8	<27.5	<26	<25	<25	<100	<25.3	<25.0	<25.8	<50.0	<25.0
1,4-Dichlorobenzene	3,740	16,400	144	78 ^J	<26	<25	<25	<100	<25.3	<25.0	<25.8	<50.0	<25.0
Benzene	1,600	7,070	5.1	<27.5	<26	<25	<25	<100	85.4 ^C	<25.0	<25.8	<50.0	<25.0
Chlorobenzene	370,000	761,000	136	150 ^C	<26	<25	<25	<100	<25.3	<25.0	<25.8	<50.0	<25.0
Chloroform	454	1,980	3.3	<51	<48.4	<46.4	<46.4	<186	<46.9	<46.4	<47.9	<92.9	<46.4
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<27.5	150 ^C	<25	<25	2010 ^C	<25.3	<25.0	<25.8	<50.0	213 ^C
Ethylbenzene	8,020	35,400	1570	<27.5	<26	<25	<25	380	6920 ^C	<25.0	<25.8	<50.0	58.9 ^J
Hexachlorobutadiene	1,630	7,190	--	<27.5	<26	<25	<25	<100	<25.3	<25.0	<25.8	<50.0	<25.0
Isopropylbenzene (Cumene)	268,000	268,000	--	66.3 ^J	<26	<25	<25	2170	188	<25.0	<25.8	<50.0	<25.0
Methylene Chloride	61,800	1,150,000	2.6	<27.5	<26	<25	<25	<100	<25.3	<25.0	<25.8	<50.0	<25.0
n-Butylbenzene	108,000	108,000	--	403	<26	<25	<25	1190	<25.3	<25.0	<25.8	<50.0	<25.0
n-Propylbenzene	264,000	264,000	--	<27.5	<26	<25	<25	637	32.7 ^J	<25.0	<25.8	<50.0	<25.0
Naphthalene	5,520	24,100	658.2	<44	<41.7	<40	<40	1630 ^C	136 ^J	<40.0	<41.3	<80.1	<40.0
p-Isopropyltoluene	162,000	162,000	--	99.3	<26	<25	<25	601	<25.3	<25.0	<25.8	<50.0	<25.0
sec-Butylbenzene	145,000	145,000	--	73.5 ^J	<26	<25	<25	520	<25.3	<25.0	<25.8	<50.0	<25.0
tert-Butylbenzene	183,000	183,000	--	<27.5	<26	<25	<25	<100	<25.3	<25.0	<25.8	<50.0	<25.0
Tetrachloroethene	33,000	145,000	4.5	<27.5	160 ^C	<25	<25	<100	<25.3	<25.0	<25.8	471 ^C	<25.0
Toluene	818,000	818,000	1107.2	<27.5	<26	<25	<25	193 ^J	251	<25.0	<25.8	<50.0	<25.0
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<27.5	<26	<25	<25	<100	83.2 ^C	<25.0	<25.8	<50.0	<25.0
Trichloroethene	1,300	8,410	3.6	<27.5	9440 ^{ABC}	194 ^C	92.3 ^C	<100	<25.3	123 ^C	55.9 ^{JC}	17500 ^{ABC}	229 ^C
Vinyl chloride	67	2,080	0.1	<27.5	<26	<25	<25	<100	<25.3	<25.0	<25.8	<50.0	68.0 ^{JAC}
Xylene (Total)	260,000	260,000	3,960	<82.4	<78.1	<75	<75	<300	284	<75.0	<77.3	<150	<75.0

Notes: VOCs = Volatile Organic Compounds

µg/kg = Micrograms per kilogram. -- = No generic RCL established.

^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E22B			E25T						
	Direct Contact Pathway		Groundwater Pathway	22B-SW-15	22B-SW-16	22B-SW-17	25T-B-1	25T-B-2	25T-SW-1	25T-SW-2	25T-SW-3	25T-SW-4	25T-SW-5
	Non-Industrial	Industrial		6 ft 5/8/2017	6 ft 5/9/2017	6 ft 5/9/2017	12 ft 11/14/2016	12 ft 11/14/2016	6 ft 11/14/2016	6 ft 11/14/2016	6 ft 11/14/2016	6 ft 11/14/2016	6 ft 4/11/2017
VOCs (µg/kg)				Removed with adjacent excavation	Removed with adjacent excavation							Excavated 04-11-17	
1,1,1-Trichloroethane	640,000	640,000	140.2	<25.0	57.4 ^J	<25.0	<25	<25	<25	<25	<25.5	<25.3	<25.0
1,1,2-Trichloroethane	1,590	7,010	3.2	<25.0	<25.0	<25.0	<25	<25	<25	<25	<25.5	<25.3	<25.0
1,1-Dichloroethane	5,060	22,200	483.40	<25.0	<25.0	<25.0	<25	<25	<25	<25	<25.5	<25.3	<25.0
1,1-Dichloroethene	320,000	1,190,000	5	<25.0	<25.0	<25.0	<25	<25	<25	<25	<25.5	<25.3	<25.0
1,2,4-Trichlorobenzene	24,000	113,000	408	<47.6	<47.6	<47.6	<47.6	<47.6	<47.6	<47.6	<48.5	<48	<47.6
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<25.0	<25.0	<25.0	<25	<25	<25	<25	<25.5	<25.3	<25.0
1,2-Dichlorobenzene	376,000	376,000	1168	<25.0	<25.0	<25.0	<25	<25	<25	<25	<25.5	364	<25.0
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<25.0	<25.0	<25.0	<25	<25	<25	<25	<25.5	<25.3	<25.0
1,3-Dichlorobenzene	297,000	297,000	1152.8	<25.0	<25.0	<25.0	<25	<25	<25	<25	<25.5	728	<25.0
1,4-Dichlorobenzene	3,740	16,400	144	<25.0	<25.0	<25.0	<25	<25	<25	<25	<25.5	2260 ^C	<25.0
Benzene	1,600	7,070	5.1	<25.0	<25.0	<25.0	158 ^C	378 ^C	<25	<25	<25.5	<25.3	<25.0
Chlorobenzene	370,000	761,000	136	<25.0	<25.0	<25.0	<25	<25	<25	<25	<25.5	9710 ^C	<25.0
Chloroform	454	1,980	3.3	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4	<47.4	<46.9	<46.4
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	33.9 ^J	<25.0	<25.0	4130 ^C	678 ^C	<25	110 ^C	<25.5	<25.3	<25.0
Ethylbenzene	8,020	35,400	1570	<25.0	<25.0	<25.0	<25	146	<25	<25	<25.5	<25.3	<25.0
Hexachlorobutadiene	1,630	7,190	--	<25.0	<25.0	<25.0	<25	<25	<25	<25	<25.5	<25.3	<25.0
Isopropylbenzene (Cumene)	268,000	268,000	--	<25.0	<25.0	<25.0	<25	<25	<25	<25	<25.5	<25.3	<25.0
Methylene Chloride	61,800	1,150,000	2.6	<25.0	<25.0	<25.0	<25	<25	<25	<25	<25.5	<25.3	<25.0
n-Butylbenzene	108,000	108,000	--	<25.0	<25.0	<25.0	<25	<25	<25	<25	<25.5	<25.3	<25.0
n-Propylbenzene	264,000	264,000	--	<25.0	<25.0	<25.0	<25	<25	<25	<25	<25.5	<25.3	<25.0
Naphthalene	5,520	24,100	658.2	<40.0	<40.0	<40.0	<40	<40	<40	<40	<40.9	63.6 ^J	<40.0
p-Isopropyltoluene	162,000	162,000	--	<25.0	<25.0	<25.0	<25	<25	<25	<25	<25.5	<25.3	<25.0
sec-Butylbenzene	145,000	145,000	--	<25.0	<25.0	<25.0	<25	<25	<25	<25	<25.5	<25.3	<25.0
tert-Butylbenzene	183,000	183,000	--	<25.0	<25.0	<25.0	<25	<25	<25	<25	<25.5	<25.3	<25.0
Tetrachloroethene	33,000	145,000	4.5	<25.0	153 ^C	<25.0	<25	<25	<25	<25	<25.5	<25.3	<25.0
Toluene	818,000	818,000	1107.2	<25.0	<25.0	<25.0	<25	<25	<25	<25	<25.5	<25.3	<25.0
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<25.0	<25.0	<25.0	<25	<25	<25	<25	<25.5	<25.3	<25.0
Trichloroethene	1,300	8,410	3.6	1570 ^{AC}	6390 ^{AC}	549 ^C	<25	<25	<25	45.9 ^{JC}	<25.5	<25.3	573 ^C
Vinyl chloride	67	2,080	0.1	<25.0	<25.0	<25.0	1000 ^{AC}	661 ^{AC}	<25	<25	<25.5	<25.3	<25.0
Xylene (Total)	260,000	260,000	3,960	<75.0	<75.0	<75.0	<75	136 ^J	<75	<75	<76.5	<75.8	<75.0

Notes: VOCs = Volatile Organic Compounds

ug/kg = Micrograms per kilogram. -- = No generic RCL established.

^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E25T		E27L							
	Direct Contact Pathway		Groundwater Pathway	25T-SW-6	25T-SW-7	27L-B-1	27L-B-2	27L-SW-1	27L-SW-2	27L-SW-3	27L-SW-4	27L-SW-5	27L-SW-6
	Non-Industrial	Industrial		6 ft 4/11/2017	6 ft 4/11/2017	12 ft 11/11/2016	12 ft 11/11/2016	6 ft 11/11/2016	6 ft 11/11/2016	6 ft 11/11/2016	6 ft 11/11/2016	6 ft 11/11/2016	6 ft 11/11/2016
VOCs (µg/kg)													
1,1,1-Trichloroethane	640,000	640,000	140.2	<25.0	<27.2	<25	<25.8	<25	<25	<25.3	<25	<25	<25
1,1,2-Trichloroethane	1,590	7,010	3.2	<25.0	<27.2	<25	<25.8	<25	<25	<25.3	<25	<25	<25
1,1-Dichloroethane	5,060	22,200	483.40	<25.0	<27.2	<25	<25.8	<25	<25	<25.3	<25	<25	<25
1,1-Dichloroethene	320,000	1,190,000	5	<25.0	<27.2	<25	<25.8	<25	<25	<25.3	<25	<25	<25
1,2,4-Trichlorobenzene	24,000	113,000	408	<47.6	<51.7	<47.6	<49	<47.6	<47.6	<48	<47.6	<47.6	<47.6
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<25.0	<27.2	<25	<25.8	<25	<25	<25.3	117	<25	<25
1,2-Dichlorobenzene	376,000	376,000	1168	<25.0	<27.2	<25	<25.8	<25	<25	<25.3	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<25.0	<27.2	<25	<25.8	<25	<25	<25.3	37.8 ^J	<25	<25
1,3-Dichlorobenzene	297,000	297,000	1152.8	<25.0	<27.2	<25	<25.8	<25	<25	<25.3	<25	<25	<25
1,4-Dichlorobenzene	3,740	16,400	144	<25.0	<27.2	<25	<25.8	<25	<25	<25.3	<25	<25	<25
Benzene	1,600	7,070	5.1	<25.0	<27.2	<25	160 ^C	<25	<25	<25.3	<25	<25	<25
Chlorobenzene	370,000	761,000	136	<25.0	<27.2	<25	<25.8	<25	<25	<25.3	<25	<25	<25
Chloroform	454	1,980	3.3	<46.4	<50.5	<46.4	<47.9	<46.4	<46.4	<46.9	<46.4	<46.4	<46.4
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<25.0	35.9 ^J	<25	<25.8	<25	<25	6100 ^C	<25	<25	<25
Ethylbenzene	8,020	35,400	1570	<25.0	<27.2	<25	<25.8	<25	<25	120	<25	<25	<25
Hexachlorobutadiene	1,630	7,190	--	<25.0	<27.2	<25	<25.8	<25	<25	<25.3	<25	<25	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<25.0	<27.2	<25	75.2	<25	<25	<25.3	61.4 ^J	<25	<25
Methylene Chloride	61,800	1,150,000	2.6	<25.0	<27.2	36 ^{JC}	<25.8	33.4 ^{JC}	39.2 ^{JC}	33.5 ^{JC}	56.3 ^{JC}	<25	<25
n-Butylbenzene	108,000	108,000	--	<25.0	<27.2	<25	<25.8	<25	<25	<25.3	<25	<25	<25
n-Propylbenzene	264,000	264,000	--	<25.0	<27.2	<25	<25.8	<25	<25	<25.3	52.9 ^J	<25	<25
Naphthalene	5,520	24,100	658.2	<40.0	<43.5	<40	57.1 ^J	<40	<40	<40.4	54.9 ^J	<40	<40
p-Isopropyltoluene	162,000	162,000	--	<25.0	<27.2	<25	<25.8	<25	<25	<25.3	<25	<25	<25
sec-Butylbenzene	145,000	145,000	--	<25.0	<27.2	<25	<25.8	<25	<25	<25.3	<25	<25	<25
tert-Butylbenzene	183,000	183,000	--	<25.0	<27.2	<25	<25.8	<25	<25	<25.3	<25	<25	<25
Tetrachloroethene	33,000	145,000	4.5	<25.0	<27.2	<25	<25.8	<25	<25	<25.3	<25	<25	<25
Toluene	818,000	818,000	1107.2	<25.0	<27.2	<25	<25.8	<25	<25	259	<25	<25	<25
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<25.0	<27.2	<25	<25.8	<25	<25	880 ^C	<25	<25	<25
Trichloroethene	1,300	8,410	3.6	<25.0	292 ^C	<25	<25.8	<25	163 ^C	794 ^C	<25	<25	<25
Vinyl chloride	67	2,080	0.1	<25.0	<27.2	<25	<25.8	<25	<25	164 ^{AC}	<25	<25	<25
Xylene (Total)	260,000	260,000	3,960	<75.0	<81.5	<75	<77.3	<75	<75	612	574	<75	<75

Notes: VOCs = Volatile Organic Compounds

µg/kg = Micrograms per kilogram. -- = No generic RCL established.

^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E27L		E33T							
	Direct Contact Pathway		Groundwater Pathway	27L-SW-7	27L-SW-8	33T-B-1	33T-B-2	33T-B-3	33T-SW-1	33T-SW-2	33T-SW-3	33T-SW-4	33T-SW-5
	Non-Industrial	Industrial		6 ft	6 ft	12 ft	12 ft	12 ft	6 ft	6 ft	6 ft	6 ft	6 ft
			11/11/2016	11/11/2016	11/15/2016	11/15/2016	11/16/2016	11/15/2016	11/15/2016	11/15/2016	11/15/2016	11/15/2016	11/15/2016
VOCs (µg/kg)												Excavated 04-25-17	
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<25	<25	<25	<25	<25	<139	<125
1,1,2-Trichloroethane	1,590	7,010	3.2	<25	<25	<25	<25	<25	<25	<25	<25	<139	<125
1,1-Dichloroethane	5,060	22,200	483.40	<25	<25	1030 ^C	661 ^C	38.6 ^J	<25	<25	<25	<139	<125
1,1-Dichloroethene	320,000	1,190,000	5	<25	<25	49 ^{JC}	<25	<25	<25	<25	<25	<139	<125
1,2,4-Trichlorobenzene	24,000	113,000	408	<47.6	<47.6	<47.6	<47.6	<47.6	<47.6	<47.6	<47.6	<264	<238
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	910	<25	<25	<25	<25	<25	<25	<25	<139	<125
1,2-Dichlorobenzene	376,000	376,000	1168	<25	<25	<25	<25	<25	<25	<25	<25	<139	<125
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	612	<25	<25	<25	<25	<25	<25	<25	<139	<125
1,3-Dichlorobenzene	297,000	297,000	1152.8	<25	<25	<25	<25	<25	<25	<25	<25	<139	<125
1,4-Dichlorobenzene	3,740	16,400	144	<25	<25	<25	<25	<25	<25	<25	<25	<139	<125
Benzene	1,600	7,070	5.1	<25	<25	<25	<25	<25	<25	<25	<25	<139	<125
Chlorobenzene	370,000	761,000	136	<25	<25	<25	<25	<25	<25	<25	<25	<139	<125
Chloroform	454	1,980	3.3	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4	<46.4	<258	<232
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<25	<25	694 ^C	1050 ^C	662 ^C	<25	<25	<25	<139	<125
Ethylbenzene	8,020	35,400	1570	340	<25	<25	<25	<25	<25	<25	<25	<139	<125
Hexachlorobutadiene	1,630	7,190	--	<25	<25	<25	<25	<25	<25	<25	<25	<139	<125
Isopropylbenzene (Cumene)	268,000	268,000	--	80.6	<25	<25	<25	<25	<25	<25	<25	<139	<125
Methylene Chloride	61,800	1,150,000	2.6	<25	<25	<25	<25	<25	<25	<25	<25	<139	<125
n-Butylbenzene	108,000	108,000	--	47.8 ^J	<25	<25	<25	<25	<25	<25	<25	<139	<125
n-Propylbenzene	264,000	264,000	--	123	<25	<25	<25	<25	<25	<25	<25	<139	<125
Naphthalene	5,520	24,100	658.2	121 ^J	<40	<40	<40	<40	<40	<40	<40	<222	<200
p-Isopropyltoluene	162,000	162,000	--	114	<25	<25	<25	<25	<25	<25	<25	<139	<125
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<139	<125
tert-Butylbenzene	183,000	183,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<139	<125
Tetrachloroethene	33,000	145,000	4.5	<25	<25	<25	<25	<25	<25	<25	<25	<139	<125
Toluene	818,000	818,000	1107.2	<25	<25	<25	<25	<25	<25	<25	<25	<139	<125
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<25	<25	86.4 ^C	150 ^C	<25	<25	<25	<25	<139	<125
Trichloroethene	1,300	8,410	3.6	<25	<25	95.6 ^C	<25	<25	<25	<25	<25	1790 ^{AC}	<125
Vinyl chloride	67	2,080	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<139	<125
Xylene (Total)	260,000	260,000	3,960	989	<75	<75	<75	<75	94.1 ^J	<75	<75	<417	<375

Notes: VOCs = Volatile Organic Compounds
 ug/kg = Micrograms per kilogram. -- = No generic RCL established.
^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E33T				E38T					
	Direct Contact Pathway		Groundwater Pathway	33T-SW-6	33T-SW-7	33T-SW-8	33T-SW-9	38T-B-1	38T-SW-1	38T-SW-2	38T-SW-3	38T-SW-4	38T-SW-5
	Non-Industrial	Industrial		6 ft 11/16/2016	6 ft 11/16/2016	6 ft 11/17/2016	6 ft 4/25/2017	4 ft 11/14/2016	2 ft 11/14/2016	2 ft 11/14/2016	2 ft 11/14/2016	2 ft 11/14/2016	2 ft 4/11/2017
VOCs (µg/kg)									Excavated 04-11-17	Excavated 04-11-17		Excavated 04-11-17	
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	122	<28.4	<25.0	<25	<25.5	<26.9	<25	<26.3	<25.0
1,1,2-Trichloroethane	1,590	7,010	3.2	<25	<26.9	<28.4	<25.0	<25	<25.5	<26.9	<25	<26.3	<25.0
1,1-Dichloroethane	5,060	22,200	483.40	<25	182	<28.4	<25.0	<25	<25.5	<26.9	<25	<26.3	<25.0
1,1-Dichloroethene	320,000	1,190,000	5	<25	<26.9	<28.4	<25.0	<25	<25.5	<26.9	<25	<26.3	<25.0
1,2,4-Trichlorobenzene	24,000	113,000	408	<47.6	<51.1	<54	<47.6	<47.6	<48.5	<51.1	<47.6	<50.1	<47.6
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<25	302	<28.4	<25.0	<25	<25.5	<26.9	<25	85	<25.0
1,2-Dichlorobenzene	376,000	376,000	1168	<25	<26.9	<28.4	<25.0	<25	<25.5	<26.9	<25	475	<25.0
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<25	57.4 ^J	<28.4	<25.0	<25	<25.5	<26.9	<25	52.5 ^J	<25.0
1,3-Dichlorobenzene	297,000	297,000	1152.8	<25	<26.9	<28.4	<25.0	<25	<25.5	<26.9	<25	<26.3	<25.0
1,4-Dichlorobenzene	3,740	16,400	144	<25	<26.9	<28.4	<25.0	<25	<25.5	<26.9	<25	170 ^C	<25.0
Benzene	1,600	7,070	5.1	<25	<26.9	<28.4	<25.0	<25	<25.5	<26.9	<25	<26.3	<25.0
Chlorobenzene	370,000	761,000	136	<25	<26.9	<28.4	<25.0	<25	<25.5	<26.9	<25	47.9 ^J	<25.0
Chloroform	454	1,980	3.3	<46.4	<49.9	<52.8	<46.4	<46.4	83.4 ^{JC}	184 ^{JC}	<46.4	<48.9	<46.4
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<25	<26.9	<28.4	<25.0	96.4 ^C	1870 ^C	7490 ^C	898 ^C	919 ^C	5170 ^C
Ethylbenzene	8,020	35,400	1570	<25	102	<28.4	<25.0	<25	<25.5	109	<25	<26.3	<25.0
Hexachlorobutadiene	1,630	7,190	--	<25	<26.9	<28.4	<25.0	<25	<25.5	<26.9	<25	<26.3	<25.0
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<26.9	<28.4	<25.0	<25	<25.5	<26.9	<25	<26.3	<25.0
Methylene Chloride	61,800	1,150,000	2.6	34.2 ^{JC}	43.9 ^{JC}	<28.4	<25.0	<25	<25.5	<26.9	<25	<26.3	<25.0
n-Butylbenzene	108,000	108,000	--	<25	<26.9	<28.4	<25.0	<25	<25.5	<26.9	<25	<26.3	<25.0
n-Propylbenzene	264,000	264,000	--	<25	83.3	<28.4	<25.0	<25	<25.5	<26.9	<25	<26.3	<25.0
Naphthalene	5,520	24,100	658.2	<40	1150 ^C	<45.5	<40.0	<40	<40.9	<43.1	<40	103 ^J	<40.0
p-Isopropyltoluene	162,000	162,000	--	<25	<26.9	<28.4	<25.0	<25	<25.5	<26.9	<25	<26.3	<25.0
sec-Butylbenzene	145,000	145,000	--	<25	39.8 ^J	<28.4	<25.0	<25	<25.5	<26.9	<25	<26.3	<25.0
tert-Butylbenzene	183,000	183,000	--	<25	<26.9	<28.4	<25.0	<25	<25.5	<26.9	<25	<26.3	<25.0
Tetrachloroethene	33,000	145,000	4.5	<25	<26.9	<28.4	<25.0	<25	<25.5	<26.9	<25	<26.3	<25.0
Toluene	818,000	818,000	1107.2	<25	<26.9	<28.4	<25.0	<25	<25.5	<26.9	<25	40.1 ^J	<25.0
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<25	<26.9	<28.4	<25.0	<25	452 ^C	883 ^C	212 ^C	301 ^C	345 ^C
Trichloroethene	1,300	8,410	3.6	31.8 ^{JC}	<26.9	<28.4	<25.0	<25	1820 ^{AC}	2770 ^{AC}	399 ^C	1080 ^C	<25.0
Vinyl chloride	67	2,080	0.1	<25	<26.9	<28.4	<25.0	<25	<25.5	<26.9	<25	<26.3	<25.0
Xylene (Total)	260,000	260,000	3,960	<75	106 ^J	<85.2	<75.0	<75	105 ^J	546	<75	<78.9	<75.0

Notes: VOCs = Volatile Organic Compounds
ug/kg = Micrograms per kilogram. -- = No generic RCL established.
^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.
^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.
^B = Parameter exceeds Generic RCL for Industrial Direct Contact.
^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E38T		E39T					E40T		
	Direct Contact Pathway		Groundwater Pathway	38T-SW-6	38T-SW-7	39T-B-1	39T-SW-1	39T-SW-2	39T-SW-3	39T-SW-4	39T-SW-5	40T-B-1	40T-SW-1
	Non-Industrial	Industrial		2 ft 4/11/2017	2 ft 4/11/2017	10 ft 11/14/2016	5 ft 11/14/2016	5 ft 11/14/2016	5 ft 11/14/2016	5 ft 11/14/2016	5 ft 11/14/2016	8 ft 11/14/2016	4 ft 11/14/2016
VOCs (µg/kg)									Excavated 04-11-17				
1,1,1-Trichloroethane	640,000	640,000	140.2	<25.3	<25.0	<25	<25	<25	115	<25	<25.0	<25	<26
1,1,2-Trichloroethane	1,590	7,010	3.2	<25.3	<25.0	<25	<25	<25	<26.3	<25	<25.0	<25	<26
1,1-Dichloroethane	5,060	22,200	483.40	<25.3	<25.0	<25	45.9 ^J	<25	70.1	<25	<25.0	<25	<26
1,1-Dichloroethene	320,000	1,190,000	5	<25.3	<25.0	<25	<25	<25	<26.3	<25	<25.0	<25	<26
1,2,4-Trichlorobenzene	24,000	113,000	408	<48.0	<47.6	<47.6	<47.6	<47.6	<50.1	<47.6	<47.6	<47.6	<49.5
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<25.3	<25.0	<25	<25	<25	<26.3	<25	<25.0	<25	<26
1,2-Dichlorobenzene	376,000	376,000	1168	<25.3	<25.0	<25	<25	<25	<26.3	<25	<25.0	<25	<26
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<25.3	<25.0	<25	<25	<25	<26.3	<25	<25.0	<25	<26
1,3-Dichlorobenzene	297,000	297,000	1152.8	<25.3	<25.0	<25	<25	<25	<26.3	<25	<25.0	<25	<26
1,4-Dichlorobenzene	3,740	16,400	144	<25.3	<25.0	<25	<25	<25	<26.3	<25	<25.0	<25	<26
Benzene	1,600	7,070	5.1	<25.3	<25.0	<25	<25	<25	<26.3	<25	<25.0	<25	<26
Chlorobenzene	370,000	761,000	136	<25.3	<25.0	<25	<25	<25	<26.3	<25	<25.0	<25	<26
Chloroform	454	1,980	3.3	<46.9	<46.4	<46.4	<46.4	<46.4	<48.9	<46.4	<46.4	<46.4	<48.4
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<25.3	1940^C	<25	70.5^C	<25	<26.3	<25	<25.0	<25	<26
Ethylbenzene	8,020	35,400	1570	<25.3	<25.0	<25	<25	<25	<26.3	<25	<25.0	<25	<26
Hexachlorobutadiene	1,630	7,190	--	<25.3	<25.0	<25	<25	<25	<26.3	<25	<25.0	<25	<26
Isopropylbenzene (Cumene)	268,000	268,000	--	<25.3	<25.0	<25	<25	<25	<26.3	<25	<25.0	<25	<26
Methylene Chloride	61,800	1,150,000	2.6	<25.3	<25.0	<25	<25	<25	<26.3	<25	<25.0	<25	<26
n-Butylbenzene	108,000	108,000	--	<25.3	<25.0	<25	<25	<25	<26.3	<25	<25.0	<25	<26
n-Propylbenzene	264,000	264,000	--	<25.3	<25.0	<25	<25	<25	<26.3	<25	<25.0	<25	<26
Naphthalene	5,520	24,100	658.2	<40.4	<40.0	<40	<40	<40	51.8 ^J	<40	<40.0	<40	<41.7
p-Isopropyltoluene	162,000	162,000	--	<25.3	<25.0	<25	<25	<25	<26.3	<25	<25.0	<25	<26
sec-Butylbenzene	145,000	145,000	--	<25.3	<25.0	<25	<25	<25	<26.3	<25	<25.0	<25	<26
tert-Butylbenzene	183,000	183,000	--	<25.3	<25.0	<25	<25	<25	<26.3	<25	<25.0	<25	<26
Tetrachloroethene	33,000	145,000	4.5	<25.3	<25.0	<25	138^C	<25	765^C	<25	<25.0	<25	<26
Toluene	818,000	818,000	1107.2	<25.3	<25.0	<25	<25	<25	<26.3	<25	<25.0	<25	<26
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<25.3	205^C	<25	<25	<25	<26.3	<25	<25.0	<25	<26
Trichloroethene	1,300	8,410	3.6	<25.3	227^C	<25	238^C	<25	2590^{AC}	58.5^{JC}	<25.0	180^C	160^C
Vinyl chloride	67	2,080	0.1	<25.3	<25.0	<25	<25	<25	<26.3	<25	<25.0	<25	<26
Xylene (Total)	260,000	260,000	3,960	<75.8	<75.0	<75	<75	<75	<78.9	<75	<75.0	<75	<78.1

Notes: VOCs = Volatile Organic Compounds

ug/kg = Micrograms per kilogram. -- = No generic RCL established.

^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E40T								E41T		
	Direct Contact Pathway		Groundwater Pathway	40T-SW-2	40T-SW-3	40T-SW-4	40T-SW-5	40T-SW-6	40T-SW-7	40T-SW-8	41T-B-1	41T-SW-1	41T-SW-2	
	Non-Industrial	Industrial		4 ft 11/14/2016	4 ft 11/14/2016	4 ft 11/14/2016	4 ft 4/11/2017	4 ft 4/11/2017	4 ft 4/11/2017	4 ft 4/25/2017	4 ft 11/14/2016	2 ft 11/14/2016	2 ft 11/14/2016	
VOCs (µg/kg)				Excavated 04-11-17	Excavated 04-11-17	Excavated 04-11-17	Excavated 04-11-17					Excavated 04-11-17	Excavated 04-11-17	
1,1,1-Trichloroethane	640,000	640,000	140.2	142 ^C	144 ^C	172 ^C	1090 ^C	<35.2	<35.7	<25.0	<25	<29.8	<30.1	
1,1,2-Trichloroethane	1,590	7,010	3.2	<26.6	<26.6	<30.5	<28.7	<35.2	<35.7	<25.0	<25	<29.8	<30.1	
1,1-Dichloroethane	5,060	22,200	483.40	<26.6	<26.6	<30.5	<28.7	<35.2	<35.7	<25.0	<25	<29.8	<30.1	
1,1-Dichloroethene	320,000	1,190,000	5	<26.6	<26.6	<30.5	<28.7	<35.2	<35.7	<25.0	<25	<29.8	<30.1	
1,2,4-Trichlorobenzene	24,000	113,000	408	<50.6	66.3 ^J	<58	<54.7	<67.0	<67.9	<47.6	<47.6	<56.6	<57.3	
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<26.6	71.9	39.6 ^J	38.1 ^J	<35.2	<35.7	<25.0	<25	<29.8	<30.1	
1,2-Dichlorobenzene	376,000	376,000	1168	<26.6	<26.6	<30.5	<28.7	<35.2	<35.7	<25.0	<25	<29.8	<30.1	
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<26.6	<26.6	<30.5	<28.7	<35.2	<35.7	<25.0	<25	<29.8	<30.1	
1,3-Dichlorobenzene	297,000	297,000	1152.8	<26.6	<26.6	<30.5	<28.7	<35.2	<35.7	<25.0	<25	<29.8	<30.1	
1,4-Dichlorobenzene	3,740	16,400	144	<26.6	<26.6	<30.5	<28.7	<35.2	<35.7	<25.0	<25	<29.8	<30.1	
Benzene	1,600	7,070	5.1	<26.6	<26.6	<30.5	<28.7	<35.2	<35.7	<25.0	<25	<29.8	<30.1	
Chlorobenzene	370,000	761,000	136	<26.6	<26.6	<30.5	<28.7	<35.2	<35.7	<25.0	<25	<29.8	<30.1	
Chloroform	454	1,980	3.3	<49.4	<49.4	<56.6	<53.4	<65.4	<66.3	<46.4	<46.4	<55.3	62.7 ^{JC}	
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<26.6	<26.6	<30.5	<28.7	<35.2	<35.7	<25.0	464 ^C	11800 ^C	8130 ^C	
Ethylbenzene	8,020	35,400	1570	<26.6	<26.6	<30.5	<28.7	<35.2	<35.7	<25.0	<25	<29.8	<30.1	
Hexachlorobutadiene	1,630	7,190	--	<26.6	<26.6	<30.5	<28.7	<35.2	<35.7	<25.0	<25	<29.8	<30.1	
Isopropylbenzene (Cumene)	268,000	268,000	--	<26.6	<26.6	<30.5	<28.7	<35.2	<35.7	<25.0	<25	<29.8	<30.1	
Methylene Chloride	61,800	1,150,000	2.6	<26.6	<26.6	<30.5	<28.7	<35.2	<35.7	<25.0	<25	<29.8	<30.1	
n-Butylbenzene	108,000	108,000	--	<26.6	<26.6	<30.5	<28.7	<35.2	<35.7	<25.0	<25	<29.8	<30.1	
n-Propylbenzene	264,000	264,000	--	<26.6	<26.6	<30.5	<28.7	<35.2	<35.7	<25.0	<25	<29.8	<30.1	
Naphthalene	5,520	24,100	658.2	68.4 ^J	93 ^J	<48.8	<46.0	<56.4	<57.2	<40.0	<40	<47.7	<48.2	
p-Isopropyltoluene	162,000	162,000	--	<26.6	<26.6	<30.5	<28.7	<35.2	<35.7	<25.0	<25	<29.8	<30.1	
sec-Butylbenzene	145,000	145,000	--	<26.6	<26.6	<30.5	<28.7	<35.2	<35.7	<25.0	<25	<29.8	<30.1	
tert-Butylbenzene	183,000	183,000	--	<26.6	<26.6	<30.5	<28.7	<35.2	<35.7	<25.0	<25	<29.8	<30.1	
Tetrachloroethene	33,000	145,000	4.5	<26.6	<26.6	<30.5	<28.7	<35.2	<35.7	<25.0	<25	<29.8	<30.1	
Toluene	818,000	818,000	1107.2	<26.6	39 ^J	<30.5	<28.7	<35.2	<35.7	<25.0	<25	<29.8	<30.1	
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<26.6	<26.6	<30.5	<28.7	<35.2	<35.7	<25.0	54.5 ^J	2590 ^C	2620 ^C	
Trichloroethene	1,300	8,410	3.6	4020 ^{AC}	10300 ^{ABC}	2640 ^{AC}	1030 ^C	<35.2	<35.7	<25.0	<25	4430 ^{AC}	11400 ^{ABC}	
Vinyl chloride	67	2,080	0.1	<26.6	<26.6	<30.5	<28.7	<35.2	<35.7	<25.0	<25	<29.8	<30.1	
Xylene (Total)	260,000	260,000	3,960	<79.8	141 ^J	<91.5	<86.2	<106	<107	<75.0	<75	<89.3	<90.4	

Notes: VOCs = Volatile Organic Compounds

ug/kg = Micrograms per kilogram. -- = No generic RCL established.

^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E41T						E43T			
	Direct Contact Pathway		Groundwater Pathway	41T-SW-3	41T-SW-4	41T-SW-5	41T-SW-6	41T-SW-7	41T-SW-8	43T-B-1	43T-SW-1	43T-SW-2	43T-SW-3
	Non-Industrial	Industrial		2 ft 11/14/2016	2 ft 11/14/2016	2 ft 4/11/2017	2 ft 4/11/2017	2 ft 4/11/2017	2 ft 4/25/2017	4 ft 11/14/2016	2 ft 11/14/2016	2 ft 11/14/2016	2 ft 11/14/2016
VOCs (µg/kg)				Excavated 04-11-17		Excavated 04-25-17							
1,1,1-Trichloroethane	640,000	640,000	140.2	<119	<116	<42.4	<41.7	<28.4	<25.0	<25.3	<25	<26.6	<27.8
1,1,2-Trichloroethane	1,590	7,010	3.2	<119	<116	<42.4	<41.7	<28.4	<25.0	<25.3	<25	<26.6	<27.8
1,1-Dichloroethane	5,060	22,200	483.40	<119	<116	<42.4	<41.7	<28.4	<25.0	<25.3	<25	<26.6	<27.8
1,1-Dichloroethene	320,000	1,190,000	5	<119	<116	<42.4	<41.7	<28.4	<25.0	<25.3	<25	<26.6	<27.8
1,2,4-Trichlorobenzene	24,000	113,000	408	<226	<221	<80.6	<79.3	<54.0	<47.6	<48	<47.6	<50.6	<52.8
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<119	<116	<42.4	<41.7	<28.4	<25.0	<25.3	<25	<26.6	181
1,2-Dichlorobenzene	376,000	376,000	1168	<119	<116	<42.4	<41.7	<28.4	<25.0	<25.3	<25	<26.6	<27.8
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<119	<116	<42.4	<41.7	<28.4	<25.0	<25.3	<25	<26.6	90.3
1,3-Dichlorobenzene	297,000	297,000	1152.8	<119	<116	<42.4	<41.7	<28.4	<25.0	<25.3	<25	<26.6	<27.8
1,4-Dichlorobenzene	3,740	16,400	144	<119	<116	<42.4	<41.7	<28.4	<25.0	<25.3	<25	<26.6	<27.8
Benzene	1,600	7,070	5.1	<119	<116	<42.4	<41.7	<28.4	<25.0	<25.3	<25	<26.6	<27.8
Chlorobenzene	370,000	761,000	136	<119	<116	<42.4	<41.7	<28.4	<25.0	<25.3	<25	<26.6	<27.8
Chloroform	454	1,980	3.3	<221	<216	<78.7	<77.4	<52.8	<46.4	<46.9	<46.4	<49.4	<51.6
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	22200 ^C	26600 ^C	<42.4	3470 ^C	352 ^C	86.3 ^C	<25.3	<25	<26.6	227 ^C
Ethylbenzene	8,020	35,400	1570	<119	<116	<42.4	<41.7	<28.4	<25.0	<25.3	<25	<26.6	39 ^J
Hexachlorobutadiene	1,630	7,190	--	<119	<116	<42.4	<41.7	<28.4	<25.0	<25.3	<25	<26.6	<27.8
Isopropylbenzene (Cumene)	268,000	268,000	--	<119	<116	<42.4	<41.7	<28.4	<25.0	<25.3	<25	<26.6	36.7 ^J
Methylene Chloride	61,800	1,150,000	2.6	<119	<116	<42.4	<41.7	<28.4	<25.0	<25.3	<25	<26.6	<27.8
n-Butylbenzene	108,000	108,000	--	<119	<116	<42.4	<41.7	<28.4	<25.0	<25.3	<25	<26.6	<27.8
n-Propylbenzene	264,000	264,000	--	<119	<116	<42.4	<41.7	<28.4	<25.0	<25.3	<25	<26.6	<27.8
Naphthalene	5,520	24,100	658.2	<191	<186	<67.9	<66.7	<45.5	<40.0	<40.4	223 ^J	56.8 ^J	107 ^J
p-Isopropyltoluene	162,000	162,000	--	<119	<116	<42.4	<41.7	<28.4	<25.0	<25.3	<25	<26.6	<27.8
sec-Butylbenzene	145,000	145,000	--	<119	<116	<42.4	<41.7	<28.4	<25.0	<25.3	<25	<26.6	<27.8
tert-Butylbenzene	183,000	183,000	--	<119	<116	<42.4	<41.7	<28.4	<25.0	<25.3	<25	<26.6	<27.8
Tetrachloroethene	33,000	145,000	4.5	<119	<116	<42.4	<41.7	<28.4	<25.0	<25.3	<25	<26.6	<27.8
Toluene	818,000	818,000	1107.2	<119	<116	<42.4	<41.7	<28.4	<25.0	<25.3	<25	<26.6	79.6
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	3410 ^C	3910 ^C	121 ^{JC}	477 ^C	204 ^C	<25.0	<25.3	<25	<26.6	48.7 ^J
Trichloroethene	1,300	8,410	3.6	1910 ^{AC}	318 ^C	1140 ^C	<41.7	<28.4	295 ^C	<25.3	<25	<26.6	494 ^C
Vinyl chloride	67	2,080	0.1	<119	203 ^{JAC}	<42.4	<41.7	57.0 ^{JC}	<25.0	<25.3	<25	<26.6	397 ^{AC}
Xylene (Total)	260,000	260,000	3,960	<357	<349	<127	<125	<85.2	<75.0	<75.8	<75	<79.8	155 ^J

Notes: VOCs = Volatile Organic Compounds

µg/kg = Micrograms per kilogram. -- = No generic RCL established.

^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E43T	E44T					E45T			
	Direct Contact Pathway		Groundwater Pathway	43T-SW-4	44T-B-1	44T-SW-1	44T-SW-2	44T-SW-3	44T-SW-4	45T-B-1	45T-SW-1	45T-SW-2	45T-SW-3
	Non-Industrial	Industrial		2 ft 11/14/2016	4 ft 11/3/2016	2 ft 11/3/2016	2 ft 11/3/2016	2 ft 11/3/2016	2 ft 11/3/2016	6 ft 11/14/2016	3 ft 11/14/2016	3 ft 11/14/2016	3 ft 11/14/2016
VOCs (µg/kg)													
1,1,1-Trichloroethane	640,000	640,000	140.2	<25	<25	<25	<28.7	<28.7	<25	<25	<27.8	<26.6	<25.5
1,1,2-Trichloroethane	1,590	7,010	3.2	<25	<25	<25	<28.7	<28.7	<25	<25	<27.8	<26.6	<25.5
1,1-Dichloroethane	5,060	22,200	483.40	<25	<25	<25	<28.7	<28.7	<25	<25	<27.8	<26.6	<25.5
1,1-Dichloroethene	320,000	1,190,000	5	<25	<25	<25	<28.7	<28.7	<25	<25	<27.8	<26.6	<25.5
1,2,4-Trichlorobenzene	24,000	113,000	408	<47.6	<47.6	<47.6	<54.7	<54.7	<47.6	<47.6	<52.8	<50.6	<48.5
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<25	<25	<25	<28.7	<28.7	62.2 ^J	<25	<27.8	<26.6	<25.5
1,2-Dichlorobenzene	376,000	376,000	1168	<25	<25	<25	<28.7	<28.7	<25	<25	<27.8	<26.6	<25.5
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<25	<25	<25	<28.7	<28.7	36.5 ^J	<25	<27.8	<26.6	<25.5
1,3-Dichlorobenzene	297,000	297,000	1152.8	<25	<25	<25	<28.7	<28.7	<25	<25	<27.8	<26.6	<25.5
1,4-Dichlorobenzene	3,740	16,400	144	<25	<25	<25	<28.7	<28.7	<25	<25	<27.8	<26.6	<25.5
Benzene	1,600	7,070	5.1	<25	<25	<25	<28.7	<28.7	<25	<25	<27.8	<26.6	<25.5
Chlorobenzene	370,000	761,000	136	<25	<25	<25	<28.7	<28.7	<25	<25	<27.8	<26.6	<25.5
Chloroform	454	1,980	3.3	<46.4	<46.4	<46.4	<53.4	<53.4	<46.4	<46.4	<51.6	<49.4	<47.4
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	<25	<25	<25	<28.7	<28.7	<25	<25	64.3 ^{JC}	<26.6	<25.5
Ethylbenzene	8,020	35,400	1570	<25	<25	<25	<28.7	<28.7	<25	<25	<27.8	<26.6	<25.5
Hexachlorobutadiene	1,630	7,190	--	<25	<25	<25	<28.7	<28.7	<25	<25	<27.8	<26.6	<25.5
Isopropylbenzene (Cumene)	268,000	268,000	--	<25	<25	<25	<28.7	<28.7	<25	<25	<27.8	<26.6	<25.5
Methylene Chloride	61,800	1,150,000	2.6	<25	<25	<25	<28.7	<28.7	<25	<25	<27.8	<26.6	<25.5
n-Butylbenzene	108,000	108,000	--	<25	<25	<25	<28.7	<28.7	<25	<25	<27.8	<26.6	<25.5
n-Propylbenzene	264,000	264,000	--	<25	<25	<25	<28.7	<28.7	<25	<25	<27.8	<26.6	<25.5
Naphthalene	5,520	24,100	658.2	52.8 ^J	<40	<40	<46	<46	59.7 ^J	<40	<44.5	<42.6	<40.9
p-Isopropyltoluene	162,000	162,000	--	<25	<25	<25	<28.7	<28.7	<25	<25	<27.8	<26.6	<25.5
sec-Butylbenzene	145,000	145,000	--	<25	<25	<25	<28.7	<28.7	<25	<25	<27.8	<26.6	<25.5
tert-Butylbenzene	183,000	183,000	--	<25	<25	<25	<28.7	<28.7	<25	<25	<27.8	<26.6	<25.5
Tetrachloroethene	33,000	145,000	4.5	<25	<25	<25	<28.7	<28.7	<25	<25	<27.8	<26.6	<25.5
Toluene	818,000	818,000	1107.2	<25	<25	<25	<28.7	<28.7	<25	<25	<27.8	<26.6	<25.5
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<25	<25	<25	<28.7	<28.7	<25	<25	<27.8	<26.6	<25.5
Trichloroethene	1,300	8,410	3.6	<25	<25	<25	<28.7	40.2 ^{JC}	468 ^C	<25	507 ^C	46.3 ^{JC}	100 ^C
Vinyl chloride	67	2,080	0.1	<25	<25	<25	<28.7	<28.7	<25	<25	<27.8	<26.6	<25.5
Xylene (Total)	260,000	260,000	3,960	<75	<75	<75	<86.2	<86.2	<75	<75	<83.3	<79.8	<76.5

Notes: VOCs = Volatile Organic Compounds

ug/kg = Micrograms per kilogram. -- = No generic RCL established.

^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5A
Group B Excavations
Detected VOCs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E45T			E46T				
	Direct Contact Pathway		Groundwater Pathway	45T-SW-4	45T-SW-5	45T-SW-6	46T-B-1	46T-SW-1	46T-SW-2	46T-SW-3	46T-SW-4
	Non-Industrial	Industrial		3 ft 11/14/2016	3 ft 4/11/2017	3 ft 4/25/2017	12 ft 10/21/2016	6 ft 10/21/2016	6 ft 10/21/2016	6 ft 10/21/2016	6 ft 10/21/2016
VOCs (µg/kg)				Excavated 04-11-17	Excavated 04-25-17						
1,1,1-Trichloroethane	640,000	640,000	140.2	<29.4	<29.4	<25.0	<25	<26	<25	<29.8	<25
1,1,2-Trichloroethane	1,590	7,010	3.2	<29.4	<29.4	<25.0	<25	<26	<25	<29.8	<25
1,1-Dichloroethane	5,060	22,200	483.40	<29.4	<29.4	<25.0	<25	<26	<25	<29.8	<25
1,1-Dichloroethene	320,000	1,190,000	5	<29.4	<29.4	<25.0	<25	<26	<25	<29.8	<25
1,2,4-Trichlorobenzene	24,000	113,000	408	<55.9	<55.9	<47.6	<47.6	<49.5	<47.6	<56.6	<47.6
1,2,4-Trimethylbenzene	219,000	219,000	1382.1	<29.4	<29.4	<25.0	<25	<26	<25	<29.8	<25
1,2-Dichlorobenzene	376,000	376,000	1168	<29.4	<29.4	<25.0	<25	<26	<25	<29.8	<25
1,3,5-Trimethylbenzene	182,000	182,000	1382.1	<29.4	<29.4	<25.0	<25	<26	<25	<29.8	<25
1,3-Dichlorobenzene	297,000	297,000	1152.8	<29.4	<29.4	<25.0	<25	<26	<25	<29.8	<25
1,4-Dichlorobenzene	3,740	16,400	144	<29.4	<29.4	<25.0	<25	<26	<25	<29.8	<25
Benzene	1,600	7,070	5.1	<29.4	<29.4	<25.0	<25	<26	<25	<29.8	<25
Chlorobenzene	370,000	761,000	136	<29.4	<29.4	<25.0	<25	<26	<25	<29.8	<25
Chloroform	454	1,980	3.3	<54.6	<54.6	<46.4	<46.4	<48.4	<46.4	<55.3	<46.4
cis-1,2-Dichloroethene	156,000	2,340,000	41.2	37.5 ^J	<29.4	<25.0	<25	<26	<25	<29.8	<25
Ethylbenzene	8,020	35,400	1570	36.8 ^J	<29.4	<25.0	<25	<26	<25	<29.8	<25
Hexachlorobutadiene	1,630	7,190	--	<29.4	<29.4	<25.0	<25	<26	<25	<29.8	<25
Isopropylbenzene (Cumene)	268,000	268,000	--	<29.4	<29.4	<25.0	<25	<26	<25	<29.8	<25
Methylene Chloride	61,800	1,150,000	2.6	<29.4	<29.4	<25.0	<25	<26	<25	<29.8	<25
n-Butylbenzene	108,000	108,000	--	<29.4	<29.4	<25.0	<25	<26	<25	<29.8	<25
n-Propylbenzene	264,000	264,000	--	<29.4	<29.4	<25.0	<25	<26	<25	<29.8	<25
Naphthalene	5,520	24,100	658.2	<47.1	<47.1	<40.0	<40	<41.7	<40	<47.7	<40
p-Isopropyltoluene	162,000	162,000	--	<29.4	<29.4	<25.0	<25	<26	<25	<29.8	<25
sec-Butylbenzene	145,000	145,000	--	<29.4	<29.4	<25.0	<25	<26	<25	<29.8	<25
tert-Butylbenzene	183,000	183,000	--	<29.4	<29.4	<25.0	<25	<26	<25	<29.8	<25
Tetrachloroethene	33,000	145,000	4.5	<29.4	<29.4	<25.0	<25	<26	<25	<29.8	<25
Toluene	818,000	818,000	1107.2	46.5 ^J	<29.4	<25.0	<25	<26	<25	<29.8	<25
trans-1,2-Dichloroethene	1,560,000	1,850,000	63	<29.4	<29.4	<25.0	<25	<26	<25	<29.8	<25
Trichloroethene	1,300	8,410	3.6	2540 ^{AC}	1320 ^{AC}	310 ^C	64 ^{JC}	241 ^C	28.2 ^{JC}	187 ^C	359 ^C
Vinyl chloride	67	2,080	0.1	<29.4	<29.4	<25.0	<25	<26	<25	<29.8	<25
Xylene (Total)	260,000	260,000	3,960	126 ^J	<88.2	<75.0	<75	<78.1	<75	<89.3	<75

Notes: VOCs = Volatile Organic Compounds

µg/kg = Micrograms per kilogram. -- = No generic RCL established.

^b = result attributable to blank contamination. ^J = Estimated value.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

All samples sampled & analyzed for VOCs from B excavations are included on this table. Where excavations were extended, the sample result shown was removed and thus, is depicted in half-tone and labeled with the excavation date.

Table 5B
Group B Excavations
PAHs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E20B							
	Direct Contact Pathway		Groundwater Pathway	20B-B-1	20B-B-2	20B-SW-1	20B-SW-2	20B-SW-3	20B-SW-4	20B-SW-5	20B-SW-6
	Non-Industrial	Industrial		12 ft 11/10/2016	12 ft 11/10/2016	6 ft 11/10/2016	6 ft 11/10/2016	6 ft 11/10/2016	6 ft 11/10/2016	6 ft 11/10/2016	6 ft 11/11/2016
PAHs (µg/kg)											
1-Methylnaphthalene	17,600	72,700	--	<4.9	<4.9	<4.7	<4.9	85.6	<4.9	<5	<5
2-Methylnaphthalene	239,000	3,010,000	--	<6.1	<6.1	<5.9	<6.1	77.7 ^J	<6.1	<6.2	<6.2
Acenaphthene	3,590,000	45,200,000	--	<4.7	<4.7	<4.6	<4.7	57.2 ^J	<4.7	<4.8	<4.8
Acenaphthylene	--	--	--	<4	<4	<3.9	<4	<19	<4	<4.1	<4.1
Anthracene	17,900,000	100,000,000	196949.2	<6.9	<6.9	<6.7	<7	401	<7	<7.1	<7.1
Benzo(a)anthracene	1,140	20,800	--	<3.8	<3.8	<3.7	<3.9	25.5 ^J	<3.9	<3.9	<3.9
Benzo(a)pyrene	115	2,110	470	<3	<3	<3	<3.1	<14.5	<3.1	<3.1	<3.1
Benzo(b)fluoranthene	1,150	21,100	479.3	<3.4	<3.4	<3.3	<3.5	<16.3	<3.4	<3.5	<3.5
Benzo(g,h,i)perylene	--	--	--	3.6 ^J	<2.5	<2.4	<2.5	<11.7	<2.5	<2.5	<2.5
Benzo(k)fluoranthene	11,500	211,000	--	<3	<3	<3	<3.1	<14.5	<3.1	<3.1	<3.1
Chrysene	115,000	2,110,000	144.6	5 ^J	<4.1	<4	<4.1	118	<4.1	<4.2	<4.2
Dibenz(a,h)anthracene	115	2,110	--	<2.7	<2.7	<2.6	<2.7	<12.9	<2.7	<2.8	<2.8
Fluoranthene	2,390,000	30,100,000	88877.8	<6.3	<6.3	<6.1	<6.4	389	<6.3	<6.4	<6.4
Fluorene	2,390,000	30,100,000	14829.9	<5	<5	<4.9	<5.1	380	<5	<5.1	<5.1
Indeno(1,2,3-cd)pyrene	1,150	21,100	--	<2.7	<2.7	<2.6	<2.7	<12.7	<2.7	<2.7	<2.7
Naphthalene	5,520	24,100	658.2	<10.2	<10.2	<9.9	<10.3	<48.6	<10.2	<10.4	<10.4
Phenanthrene	--	--	--	<14.1	<14.1	<13.7	<14.2	610	<14.2	<14.4	<14.4
Pyrene	1,790,000	22,600,000	54,546	<5.5	<5.5	<5.3	<5.5	375	<5.5	<5.6	<5.6

Notes:

PAHs =Polynuclear Aromatic Hydrocarbons

ug/kg = Micrograms per kilogram.

^J = Estimated value (+ indicates high bias).

-- = No generic RCL established.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

Table 5B
Group B Excavations
PAHs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E20B		E22B					
	Direct Contact Pathway		Groundwater Pathway	20B-SW-7	20B-SW-8	22B-B-1	22B-B-2	22B-B-3	22B-B-4	22B-B-5	22B-SW-1
	Non-Industrial	Industrial		6 ft	6 ft	12 ft	12 ft	12 ft	12 ft	12 ft	6 ft
				11/11/2016	11/11/2016	11/7/2016	11/7/2016	11/7/2016	11/7/2016	11/7/2016	5/8/2017
PAHs (µg/kg)											Excavated 04-19-17
1-Methylnaphthalene	17,600	72,700	--	<4.8	<4.8	<5.1	8820	5.1 ^J	<5.2	7.5 ^J	<5.6
2-Methylnaphthalene	239,000	3,010,000	--	<6	<5.9	<6.4	8260	<5.8	<6.4	<5.8	<6.9
Acenaphthene	3,590,000	45,200,000	--	<4.6	<4.6	<4.9	502 ^J	<4.5	<5	<4.5	<5.4
Acenaphthylene	--	--	--	<3.9	<3.9	<4.2	300 ^J	<3.8	<4.2	<3.8	<4.6
Anthracene	17,900,000	100,000,000	196949.2	<6.8	<6.8	<7.3	<263	<6.7	<7.3	<6.7	<7.9
Benzo(a)anthracene	1,140	20,800	--	<3.8	<3.7	<4	<146	<3.7	<4.1	<3.7	8.6 ^J
Benzo(a)pyrene	115	2,110	470	<3	<3	<3.2	<116	<2.9	<3.2	<2.9	6.3 ^J
Benzo(b)fluoranthene	1,150	21,100	479.3	<3.4	<3.3	<3.6	<130	<3.3	<3.6	<3.3	16.5
Benzo(g,h,i)perylene	--	--	--	<2.4	<2.4	<2.6	<93.7	<2.4	<2.6	<2.4	7.9 ^J
Benzo(k)fluoranthene	11,500	211,000	--	<3	<3	<3.2	<116	<2.9	<3.2	<2.9	7.2 ^J
Chrysene	115,000	2,110,000	144.6	<4	<4	<4.3	<156	<3.9	<4.3	5.2 ^J	15.6
Dibenz(a,h)anthracene	115	2,110	--	<2.7	<2.6	<2.9	<103	<2.6	<2.9	<2.6	<3.1
Fluoranthene	2,390,000	30,100,000	88877.8	<6.2	<6.2	<6.6	353 ^J	<6.1	<6.7	<6.1	21.7 ^J
Fluorene	2,390,000	30,100,000	14829.9	6.7 ^J	<4.9	<5.3	430 ^J	<4.8	<5.3	<4.8	<5.7
Indeno(1,2,3-cd)pyrene	1,150	21,100	--	<2.6	<2.6	<2.8	<101	<2.6	<2.8	<2.6	5.3 ^J
Naphthalene	5,520	24,100	658.2	<10.1	<10	<10.7	6790 ^{AC}	<9.8	<10.8	19.9 ^J	<11.6
Phenanthrene	--	--	--	<13.9	<13.8	<14.9	1200 ^J	<13.6	<15	<13.6	<16.1
Pyrene	1,790,000	22,600,000	54,546	<5.4	<5.3	<5.8	323 ^J	<5.3	<5.8	<5.3	14.8 ^J

Notes:

PAHs =Polynuclear Aromatic Hydrocarbons

ug/kg = Micrograms per kilogram.

^J = Estimated value (+ indicates high bias).

-- = No generic RCL established.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

**Table 5B
Group B Excavations
PAHs in Verification Soil Samples
Former Kenosha Engine Plant**

Parameters	Generic RCLs			E22B							
	Direct Contact Pathway		Groundwater Pathway	22B-SW-2	22B-SW-3	22B-SW-4	22B-SW-5	22B-SW-6	22B-SW-7	22B-SW-8	22B-SW-9
	Non-Industrial	Industrial		6 ft 11/7/2016	6 ft 11/7/2016	6 ft 11/7/2016	6 ft 11/7/2016	6 ft 11/7/2016	6 ft 11/8/2016	6 ft 11/8/2016	6 ft 4/19/2017
PAHs (µg/kg)					Excavated 04-19-17	Excavated 04-19-17		Excavated 04-19-17			
1-Methylnaphthalene	17,600	72,700	--	<4.9	<5	1170	123	7.5 ^J	<4.7	<4.6	887
2-Methylnaphthalene	239,000	3,010,000	--	<6.1	<6.3	<61.5	<6.4	6.5 ^J	<5.9	<5.8	857
Acenaphthene	3,590,000	45,200,000	--	<4.7	<4.9	76.2 ^J	7 ^J	<4.2	<4.6	<4.5	59
Acenaphthylene	--	--	--	<4	<4.1	<40.5	4.5 ^J	<3.6	<3.9	<3.8	26.1
Anthracene	17,900,000	100,000,000	196949.2	<6.9	<7.1	<70.2	8.4 ^J	<6.2	<6.7	<6.6	21.5 ^J
Benzo(a)anthracene	1,140	20,800	--	<3.8	<4	<39	<4.1	9.6 ^J	<3.7	<3.7	20.4 ^J
Benzo(a)pyrene	115	2,110	470	<3	<3.1	<30.9	<3.2	8.2 ^J	<3	<2.9	14.8 ^J
Benzo(b)fluoranthene	1,150	21,100	479.3	<3.4	<3.5	<34.7	<3.6	15.4	3.5 ^J	<3.3	23.2
Benzo(g,h,i)perylene	--	--	--	<2.5	<2.5	<25	<2.6	6.3 ^J	<2.4	<2.3	<4.8
Benzo(k)fluoranthene	11,500	211,000	--	<3	<3.1	<30.8	<3.2	4.5 ^J	<3	<2.9	7.4 ^J
Chrysene	115,000	2,110,000	144.6	<4.1	<4.2	<41.4	<4.3	15.9	<4	<3.9	23.4 ^J
Dibenz(a,h)anthracene	115	2,110	--	<2.7	<2.8	<27.5	<2.9	<2.4	<2.6	<2.6	<5.3
Fluoranthene	2,390,000	30,100,000	88877.8	<6.3	<6.5	70.8 ^J	9.6 ^J	14.8 ^J	<6.1	<6	48.5
Fluorene	2,390,000	30,100,000	14829.9	<5	<5.2	80.6 ^J	17.3 ^J	<4.5	<4.9	<4.8	51.2
Indeno(1,2,3-cd)pyrene	1,150	21,100	--	<2.7	<2.8	<27	<2.8	4.6 ^J	<2.6	<2.5	<5.2
Naphthalene	5,520	24,100	658.2	<10.2	<10.5	224 ^J	50.4	<9.1	<9.9	<9.7	752 ^C
Phenanthrene	--	--	--	<14.1	<14.6	257 ^J	61.9	15.9 ^J	<13.7	<13.4	140
Pyrene	1,790,000	22,600,000	54,546	<5.5	<5.6	68.1 ^J	11.4 ^J	11.9 ^J	<5.3	<5.2	45.9

Notes:

PAHs =Polynuclear Aromatic Hydrocarbons

ug/kg = Micrograms per kilogram.

^J = Estimated value (+ indicates high bias).

-- = No generic RCL established.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

Table 5B
Group B Excavations
PAHs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E22B							
	Direct Contact Pathway		Groundwater Pathway	22B-SW-10	22B-SW-11	22B-SW-12	22B-SW-13	22B-SW-14	22B-SW-15	22B-SW-16	22B-SW-17
	Non-Industrial	Industrial		6 ft	6 ft	6 ft	6 ft	6 ft	6 ft	6 ft	6 ft
				4/19/2017	4/20/2017	4/20/2017	4/21/2017	4/20/2017	5/8/2017	5/9/2017	5/9/2017
PAHs (µg/kg)							Excavated 05-09-17		Excavated 05-09-17	Excavated 05-09-17	
1-Methylnaphthalene	17,600	72,700	--	111	<4.4	<5.0	<4.7	5.0 ^J	<4.6	<4.9	<4.9
2-Methylnaphthalene	239,000	3,010,000	--	109 ^{J+}	<5.5	<6.3	<5.9	8.4 ^J	<5.7	<6.1	<6.1
Acenaphthene	3,590,000	45,200,000	--	12.3 ^J	<4.2	<4.9	<4.6	<4.7	<4.4	9.6 ^J	<4.7
Acenaphthylene	--	--	--	5.5 ^J	<3.6	<4.1	<3.9	<4.0	<3.8	<4.0	<4.0
Anthracene	17,900,000	100,000,000	196949.2	<6.9	<6.3	<7.1	<6.7	<6.9	<6.5	20.7 ^J	<7.0
Benzo(a)anthracene	1,140	20,800	--	11.7 ^J	<3.5	<4.0	<3.7	<3.8	11.7 ^J	72.4	<3.9
Benzo(a)pyrene	115	2,110	470	9.9 ^J	<2.7	<3.1	<3.0	<3.0	12.4	93.4	<3.1
Benzo(b)fluoranthene	1,150	21,100	479.3	16.8	<3.1	<3.5	<3.3	<3.4	16.9	124	5.2 ^J
Benzo(g,h,i)perylene	--	--	--	7.1 ^J	<2.2	<2.5	<2.4	<2.4	7.0 ^J	72	2.8 ^J
Benzo(k)fluoranthene	11,500	211,000	--	3.7 ^J	<2.7	<3.1	<3.0	<3.0	6.8 ^J	45.4	<3.1
Chrysene	115,000	2,110,000	144.6	26.9 ^{J+}	<3.7	<4.2	<4.0	6.0 ^J	14.7	82.3	<4.1
Dibenz(a,h)anthracene	115	2,110	--	<2.7	<2.4	<2.8	<2.6	<2.7	<2.5	13.6	<2.7
Fluoranthene	2,390,000	30,100,000	88877.8	26.1	<5.7	<6.5	<6.1	<6.3	21.3	195	6.9 ^J
Fluorene	2,390,000	30,100,000	14829.9	12.5 ^J	<4.5	<5.2	<4.9	<5.0	<4.7	6.5 ^J	<5.1
Indeno(1,2,3-cd)pyrene	1,150	21,100	--	4.2 ^J	<2.4	<2.8	<2.6	<2.6	6.6 ^J	59.1	<2.7
Naphthalene	5,520	24,100	658.2	98.2	<9.2	<10.5	<9.9	<10.1	<9.6	<10.2	<10.3
Phenanthrene	--	--	--	57.8 ^{J+}	<12.7	<14.6	<13.7	<14.0	14.9 ^J	98.2	<14.2
Pyrene	1,790,000	22,600,000	54,546	37.9 ^{J+}	<4.9	<5.6	<5.3	<5.4	17.8	167	<5.5

Notes:

PAHs =Polynuclear Aromatic Hydrocarbons

ug/kg = Micrograms per kilogram.

^J = Estimated value (+ indicates high bias).

-- = No generic RCL established.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

Table 5B
Group B Excavations
PAHs in Verification Soil Samples
Former Kenosha Engine Plant

Parameters	Generic RCLs			E27L									
	Direct Contact Pathway		Groundwater Pathway	27L-B-1	27L-B-2	27L-SW-1	27L-SW-2	27L-SW-3	27L-SW-4	27L-SW-5	27L-SW-6	27L-SW-7	27L-SW-8
	Non-Industrial	Industrial		12 ft 11/11/2016	12 ft 11/11/2016	6 ft 11/11/2016	6 ft 11/11/2016	6 ft 11/11/2016	6 ft 11/11/2016	6 ft 11/11/2016	6 ft 11/11/2016	6 ft 11/11/2016	6 ft 11/11/2016
PAHs (µg/kg)													
1-Methylnaphthalene	17,600	72,700	--	<5	18.9	<5.1	<5	<5	<5	<4.9	7.1 ^J	<5.1	<5.1
2-Methylnaphthalene	239,000	3,010,000	--	<6.2	15.6 ^J	<6.4	<6.2	<6.2	<6.2	<6.1	<6.3	<6.3	<6.4
Acenaphthene	3,590,000	45,200,000	--	<4.8	<4.5	<4.9	<4.8	<4.8	<4.8	<4.8	6.6 ^J	<4.9	<4.9
Acenaphthylene	--	--	--	<4.1	<3.8	<4.2	<4.1	<4.1	<4.1	<4	<4.1	<4.2	<4.2
Anthracene	17,900,000	100,000,000	196949.2	<7.1	<6.6	<7.3	<7.1	<7.1	<7.1	<7	<7.2	<7.2	<7.3
Benzo(a)anthracene	1,140	20,800	--	<3.9	<3.7	<4	<4	<3.9	<4	<3.9	<4	<4	<4
Benzo(a)pyrene	115	2,110	470	<3.1	<2.9	<3.2	<3.1	<3.1	<3.1	<3.1	<3.2	<3.2	<3.2
Benzo(b)fluoranthene	1,150	21,100	479.3	4.7 ^J	<3.3	<3.6	<3.5	<3.5	<3.5	<3.5	<3.5	<3.6	<3.6
Benzo(g,h,i)perylene	--	--	--	3.7 ^J	<2.4	<2.6	<2.5	<2.5	<2.5	<2.5	<2.6	<2.6	<2.6
Benzo(k)fluoranthene	11,500	211,000	--	<3.1	<2.9	<3.2	<3.1	<3.1	<3.1	<3.1	<3.2	<3.2	<3.2
Chrysene	115,000	2,110,000	144.6	5.4 ^J	5.1 ^J	<4.3	<4.2	<4.2	<4.2	<4.1	5.9 ^J	<4.3	<4.3
Dibenz(a,h)anthracene	115	2,110	--	<2.8	<2.6	<2.8	<2.8	<2.8	<2.8	<2.7	<2.8	<2.8	<2.8
Fluoranthene	2,390,000	30,100,000	88877.8	<6.5	<6.1	<6.6	<6.5	<6.5	<6.5	<6.4	<6.5	<6.6	<6.6
Fluorene	2,390,000	30,100,000	14829.9	<5.1	<4.8	<5.3	<5.2	<5.2	<5.2	<5.1	6.9 ^J	<5.2	<5.3
Indeno(1,2,3-cd)pyrene	1,150	21,100	--	<2.7	<2.6	<2.8	<2.7	<2.7	<2.7	<2.7	<2.8	<2.8	<2.8
Naphthalene	5,520	24,100	658.2	<10.4	<9.8	<10.7	<10.5	<10.5	<10.5	<10.3	<10.6	66	<10.7
Phenanthrene	--	--	--	<14.4	<13.6	<14.8	<14.5	<14.5	<14.5	<14.3	20.1 ^J	<14.8	<14.8
Pyrene	1,790,000	22,600,000	54,546	<5.6	<5.3	<5.7	<5.6	<5.6	<5.6	<5.5	<5.7	<5.7	<5.7

Notes:

PAHs =Polynuclear Aromatic Hydrocarbons

ug/kg = Micrograms per kilogram.

^J = Estimated value (+ indicates high bias).

-- = No generic RCL established.

Generic RCLs March 2017 per WDNR PUB-RR-890.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

Table 5C
Group B Excavations
Arsenic and Lead in Verification Soil Samples
Former Kenosha Engine Plant

				Arsenic	Lead
Direct Contact Pathway Non-Industrial				0.677	400
Direct Contact Pathway Industrial				3	800
Groundwater Pathway				0.584	27
Background Threshold Value				8	52
Location	Field ID	Depth	Sample Date		
E19M	19M-B-1	4 ft	11/14/2016	11.9 ^{ABC}	13.9
	19M-SW-1	2 ft	11/14/2016	3.2 ^{JABC}	108 ^C
	19M-SW-2	2 ft	11/14/2016	7.1 ^{ABC}	59 ^C
	19M-SW-3	2 ft	11/14/2016	2.3 ^{JAC}	83.3 ^C
	19M-SW-4	2 ft	11/14/2016	2.5 ^{JAC}	61 ^C
E42M	42M-B-1	4 ft	11/16/2016	NA	394 ^C
	42M-SW-1	2 ft	11/16/2016	NA	64.8 ^C
	42M-SW-2	2 ft	11/16/2016	NA	8.1
	42M-SW-3	2 ft	11/16/2016	NA	282 ^C
	42M-SW-4	2 ft	11/16/2016	NA	34.1 ^C

Notes:

mg/kg = Milligrams per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated value.

-- = No generic RCL established.

Generic RCLs March 2017 per WDNR PUB-RR-890.

**Table 5D
Group B Excavations
PCBs in Verification Soil Samples
Former Kenosha Engine Plant**

Parameters	Generic RCLs			E25T									E35P	
	Direct Contact Pathway		Groundwater Pathway	25T-B-1	25T-B-2	25T-SW-1	25T-SW-2	25T-SW-3	25T-SW-4	25T-SW-5	25T-SW-6	25T-SW-7	35P-B-1	35P-B-2
	Non-Industrial	Industrial		12 ft 11/14/2016	12 ft 11/14/2016	6 ft 11/14/2016	6 ft 11/14/2016	6 ft 11/14/2016	6 ft 11/14/2016	6 ft 11/14/2016	6 ft 4/11/2017	6 ft 4/11/2017	6 ft 4/11/2017	12 ft 11/30/2016
PCBs (µg/kg)									Excavated 04-11-17					
Aroclor 1016	4,110	28,000	9.4	<30.7	<31.8	<30.3	<28.5	<30	<157	<28.6 ^{UJ}	<27.0	<31.5	<30.7	<30.3 ^{UJ}
Aroclor 1221	213	883	9.4	<30.7	<31.8	<30.3	<28.5	<30	<157	<28.6 ^{UJ}	<27.0	<31.5	<30.7	<30.3 ^{UJ}
Aroclor 1232	190	792	9	<30.7	<31.8	<30.3	<28.5	<30	<157	<28.6 ^{UJ}	<27.0	<31.5	<30.7	<30.3 ^{UJ}
Aroclor 1242	235	972	9.4	<30.7	<31.8	<30.3	<28.5	<30	<157	<28.6 ^{UJ}	<27.0	<31.5	<30.7	<30.3 ^{UJ}
Aroclor 1248	236	975	9.4	<30.7	<31.8	<30.3	<28.5	<30	<157	<28.6 ^{UJ}	<27.0	<31.5	<30.7	<30.3 ^{UJ}
Aroclor 1254	239	988	9	<30.7	<31.8	<30.3	<28.5	<30	<157	<28.6 ^{UJ}	<27.0	<31.5	<30.7	<30.3 ^{UJ}
Aroclor 1260	243	1,000	9.4	<30.7	<31.8	<30.3	<28.5	<30	3390 ^{ABC}	101 ^{J-C}	156 ^C	<31.5	<30.7	<30.3 ^{UJ}
PCB, Total	234	967	9.4	<30.7	<31.8	<30.3	<28.5	<30	3390 ^{ABC}	101 ^{J-C}	156 ^C	<31.5	<30.7	<30.3 ^{UJ}

Notes:

PCBs = Polychlorinated Biphenyls

ug/kg = Micrograms per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact.

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^J = Estimated value (- indicates low bias).

Generic RCLs March 2017 per WDNR PUB-RR-890.

**Table 5D
Group B Excavations
PCBs in Verification Soil Samples
Former Kenosha Engine Plant**

Parameters	Generic RCLs			E35P									
	Direct Contact Pathway		Groundwater Pathway	35P-B-3	35P-SW-1	35P-SW-2	35P-SW-3	35P-SW-4	35P-SW-5	35P-SW-6	35P-SW-7	35P-SW-8	35P-SW-9
	Non-Industrial	Industrial		12 ft 11/30/2016	6 ft 11/30/2016	6 ft 11/30/2016	6 ft 11/30/2016	6 ft 11/30/2016	6 ft 11/30/2016	6 ft 11/30/2016	6 ft 11/30/2016	6 ft 11/30/2016	6 ft 4/25/2017
PCBs (µg/kg)													
Aroclor 1016	4,110	28,000	9.4	<30.3	<28.3	<28.5 ^{UJ}	<81.9 ^{UJ}	<26.4	<29.8	<29.4	<60.1	<28.7	<434
Aroclor 1221	213	883	9.4	<30.3	<28.3	<28.5 ^{UJ}	<81.9 ^{UJ}	<26.4	<29.8	<29.4	<60.1	<28.7	<434
Aroclor 1232	190	792	9	<30.3	<28.3	<28.5 ^{UJ}	<81.9 ^{UJ}	<26.4	<29.8	<29.4	<60.1	<28.7	<434
Aroclor 1242	235	972	9.4	<30.3	<28.3	<28.5 ^{UJ}	<81.9 ^{UJ}	<26.4	<29.8	52.4 ^{JC}	<60.1	<28.7	<434
Aroclor 1248	236	975	9.4	<30.3	<28.3	<28.5 ^{UJ}	1140 ^{J-ABC}	<26.4	<29.8	<29.4	921 ^{AC}	<28.7	6610 ^{ABC}
Aroclor 1254	239	988	9	<30.3	<28.3	<28.5 ^{UJ}	<81.9 ^{UJ}	<26.4	<29.8	<29.4	415 ^{AC}	<28.7	<434
Aroclor 1260	243	1,000	9.4	<30.3	<28.3	<28.5 ^{UJ}	<81.9 ^{UJ}	<26.4	<29.8	<29.4	93 ^{JC}	<28.7	464 ^{JAC}
PCB, Total	234	967	9.4	<30.3	<28.3	<28.5 ^{UJ}	1140 ^{J-ABC}	<26.4	<29.8	52.4 ^{JC}	1430 ^{ABC}	<28.7	7080 ^{ABC}

Notes:

PCBs = Polychlorinated Biphenyls

ug/kg = Micrograms per kilogram.

^A = Parameter exceeds Generic RCL for Non-Industrial D

^B = Parameter exceeds Generic RCL for Industrial Direct

^C = Parameter exceeds Generic RCL for Groundwater P:

^J = Estimated value (- indicates low bias).

Generic RCLs March 2017 per WDNR PUB-RR-890.

Table A-2
Groups A and B Excavation Details
Location Coordinates, Dimensions and Documentation
Former Kenosha Engine Plant, Kenosha, Wisconsin

Group	Excavation	GPS Coordinates			Start Date	End Date	Extended?	Extention Date Start	Extention Date Finish	Estimated Excavation Volumes (Tons)	Final Dimensions			Actual Excavation Volumes (Tons)	Backfill Sources	Comments	Number of Sidewall Samples	Number of Bottom Samples	Verification Sample Analytical Parameters	Wells Abandoned
		Direction	Latitude	Longitude							X (ft)	Y (ft)	Depth (ft)							
A	Berm E1L	MW-609	42.587752	-87.844604	11/18/2016	11/18/2016	No	--	--	30,336	--	--	Berm	Offsite Clay (Festival)	Actual tonnage includes berm soil that was disposed concurrently with these two excavations.	0	1	VOCs, PAHs, and dry weight	MW-609, PZ-609	
	Berm E3L	MW-650	42.587641	-87.842648	11/17/2016	11/17/2016	No	--	--		--	--	Berm			Offsite Clay (Festival)	0	1	VOCs, PAHs, and dry weight	MW-650
	E2T	NW1	42.587934	-87.84445	11/30/2016	12/8/2016	Yes	4/21/2017	4/21/2017	7,384	24,924	5	12,661.87	Offsite Clay (Festival)	Depth extended to 10'	18	18 (13 initial) (5 additional)	VOCs and dry weight	MW-610, PZ-610	
		NW2	42.58796	-87.843283																
		SW	42.587711	-87.844455																
		SE	42.58765	-87.843215																
		NE	42.587954	-87.8432																
	INS-COR	42.587866	-87.843301																	
	E4L	NW	42.587827	-87.842292	10/17/2016	10/19/2016	Yes	11/21/2016	11/21/2016	9,520	13,400	12	9,517.22	CS6, CS7 Berm Soil	Extended to south and southwest	16 (11 initial) (5 additional)	11 (8 initial) (3 additional)	VOCs, PAHs, and dry weight	MW-651, MW-652, MW-602, PZ-602, MW-654	
		SW	42.587603	-87.842151																
		SE	42.587507	-87.841861																
		NE	42.587837	-87.841893																
		S-Side	42.587527	-87.842005																
		W-Side	42.587716	-87.842275																
	SW-COR2	42.587553	-87.842138																	
	E5L	NW	42.586939	-87.84432	11/21/2016	11/21/2016	No	--	--	78.4	22	15	4	77.46	Offsite Clay (Festival)	--	4	1	VOCs, PAHs, and dry weight	None
		SW	42.586896	-87.844345																
		SE	42.586896	-87.844246																
		NE	42.586932	-87.844227																
	E11T	NW	42.585924	-87.841227	10/12/2016	5/10/2017	Yes	5/9/2017	6/28/2017	8,526	8,500	12	5,300.31	CS8 Berm Soil, Offiste Clay (Festival)	Shortened on west end, extended to east (more excavation needed to east)	13 (10 initial) (3 additional)	5	VOCs and dry weight	MW-27B	
		SW	42.585813	-87.8412																
		SE	42.583449	-87.723683																
		NE	42.583669	-87.723675																
	E13T	NW	42.5831016	-87.723643	10/12/2016	10/12/2016	Yes	11/30/2016	5/31/2017	622	35	100	12	3,269.53	CS8 Berm Soil, Offiste Clay (Festival, KWU)	Extended to north in four increments	10 (4 initial) (6 additional)	3 (1 initial) (2 additional)	VOCs and dry weight	MW-805
		SW	42.585155	-87.840706																
		SE	42.58515	-87.840564																
		NE	42.583099	-87.723518																
	E14L	NW	42.584054	-87.840901	10/11/2016	10/15/2016	No	--	--	2,133	63	52	12	3,947.25	CS8 Berm Soil	--	4	1	VOCs, PAHs, and dry weight	MW-803
		SW	42.583884	-87.840915																
		SE	42.583881	-87.840573																
NE		42.584064	-87.840549																	
E24B	NW1	42.584197	-87.842569	10/21/2016	11/3/2016	Yes	11/29/2016	5/12/2017	14,258	20,427	12	11,865.81	CS1, CS6 Berm Soil, Offiste Clay (Festival)	--	19 (14 initial) (5 additional)	8 (7 initial) (1 additional)	VOCs, PAHs, and dry weight	MW-410, MW-406, MW-75, MW-419, ERD8-TW-SW15		
	NW2	42.584219	-87.842109																	
	SW1	42.583636	-87.842244																	
	SW2	42.584001	-87.842576																	
	SE	42.583655	-87.841991																	
	NE	42.584207	-87.842025																	
	I-COR1	42.584179	-87.842132																	
I-COR2	42.583982	-87.84227																		
E26L	SW	42.583201	-87.842498	10/27/2016	10/28/2016	Yes	11/30/2016	11/30/2016	3,110	135	36	12	2,673.59	CS1 Berm Soil	Extended to the east	7 (6 initial) (1 additional)	2	VOCs, PAHs, and dry weight	MW-416	
	SE	42.583201	-87.841994																	
	NE	42.583317	-87.841994																	
	NW	42.583301	-87.842529																	
E34L	NW	42.581686	-87.840956	11/16/2016	11/16/2016	No	--	--	160	15	15	12	51.09	Offsite Clay (Festival)	--	4	1	VOCs, PAHs, and dry weight	MW-1006	
	SW	42.581645	-87.840934																	
	SE	42.581632	-87.840896																	
	NE	42.581681	-87.840896																	
E36L	NW	42.580716	-87.842018	11/10/2016	11/10/2016	No	--	--	48	22	12	4	33.21	Offsite Clay (Festival)	--	4	1	VOCs, PAHs, and dry weight	None	
	SW	42.580694	-87.842389																	
	SE	42.580663	-87.841899																	
	NE	42.580701	-87.841892																	
E47B	NW	42.585488	-87.725748	12/8/2016	12/8/2016	Yes	4/21/2017	4/21/2017	240	30	20	10	833.23	Offsite Clay (Festival)	Extended to the east	5 (4 initial) (1 additional)	1	VOCs, PAHs, and dry weight	None	
	SW	42.585432	-87.725750																	
	SE	42.585431	-87.725635																	
	NE	42.585486	-87.725634																	
E48M	NW	42.578133	-87.725208	11/10/2016	11/10/2016	Yes	5/12/2017	6/2/2017	24	30	40	4	332.30	Offsite Clay (Festival)	Extended in all directions	9 (4 initial) (5 additional)	1	Metals	None	
	SW	42.578033	-87.725212																	
	SE	42.578031	-87.725062																	
	NE	42.578129	-87.725058																	
E49M	NW	42.577995	-87.72503	11/10/2016	11/10/2016	Yes	5/12/2017	6/2/2017	24	55	20	4	138.39	Offsite Clay (Festival)	Extended in all directions	9 (4 initial) (5 additional)	1	Metals	None	
	SW	42.577926	-87.725034																	
	SE	42.577922	-87.724832																	
	NE	42.577989	-87.724822																	

Table A-2
Groups A and B Excavation Details
Location Coordinates, Dimensions and Documentation
Former Kenosha Engine Plant, Kenosha, Wisconsin

Group	Excavation	GPS Coordinates			Start Date	End Date	Extended?	Extention Date Start	Extention Date Finish	Estimated Excavation Volumes (Tons)	Final Dimensions			Actual Excavation Volumes (Tons)	Backfill Sources	Comments	Number of Sidewall Samples	Number of Bottom Samples	Verification Sample Analytical Parameters	Wells Abandoned
		Direction	Latitude	Longitude							X (ft)	Y (ft)	Depth (ft)							
B	E6T	NW	42.583618	-87.725511	10/21/2016	10/24/2016	Yes	12/9/2016	5/31/2017	533	3,297	10	3,533.58	CS7 Berm Soil/Offsite Clay (Festival, KWU)	Extended to the north and east	14 (4 initial) (10 additional)	4 (2 initial) (2 additional)	VOCs and dry weight	MW-508	
		SW	42.585944	-87.842564																
		SE	42.585933	-87.842422																
		NE	42.583796	-87.725394																
	E7T	NW	42.583386	-87.727753	10/21/2016	10/21/2016	Yes	11/29/2016	6/27/2017	1,067	13,565	4	5,118.38	CS7 Berm Soil, Offsite Clay (Festival)	Depth extended to 8' and extended to east, south and west	31 (8 initial) (23 additional)	7 (2 initial) (5 additional)	VOCs and dry weight	None	
		SW	42.583204	-87.727756																
		SE	42.583124	-87.727065																
		NE	42.5834	-87.844269																
	E8T	NW	42.585445	-87.844702	10/21/2016	10/21/2016	Yes	11/29/2016	11/29/2016	2,933	5,216	12	4,253.86	CS7 Berm Soil	Extended to east and south	11 (8 initial) (3 additional)	2	VOCs and dry weight	MW-503, PZ-503	
		SW	42.585271	-87.844686																
		SE	42.585299	-87.844397																
		NE	42.585468	-87.844385																
	E10T	NW	42.582495	-87.726922	10/28/2016	11/4/2016	Yes	11/22/2016	6/1/2017	12,907	30,411	12	21,982.90	CS7, CS8 Berm Soil, Offsite Clay (Festival, KWU)	Volume difference is concrete & storm sewer Extended to south and west	45 (18 initial) (27 additional)	25 (6 initial) (19 additional)	VOCs and dry weight	MW-554, PZ-554, MW-555, PZ-555	
		SW	42.582284	-87.726896																
		SE	42.582356	-87.725634																
		NE	42.582508	-87.725623																
	E15T	NW	42.584648	-87.845331	11/9/2016	11/9/2016	No	--	--	373	36	45	6	475.23	Offsite Clay (Festival)	--	4	1	VOCs and dry weight	PZ-315
		SW	42.584534	-87.845348																
		SE	42.584531	-87.845217																
		NE	42.584639	-87.845212																
	E16T	NW	42.584654	-87.845218	11/9/2016	11/10/2016	Yes	4/11/2017	4/24/2017	1,600	85	45	12	3,250.84	Offsite Clay (Festival)	Extended to south and west West end joined to E15T	11 (6 initial) (5 additional)	2	VOCs and dry weight	None
		SW	42.584567	-87.845234																
		SE	42.58458	-87.844904																
		NE	42.584662	-87.844923																
	E17T	NW	42.581773	-87.727708	4/11/2017	4/18/2017	No	--	--	8,267	75	155	12	6,506.19	Offsite Clay (Festival, KWU)	--	10	6	VOCs and dry weight	None
		SW	42.581352	-87.727723																
		SE	42.581346	-87.727723																
		NE	42.037782	-87.747314																
	E18T	NW	42.583553	-87.843983	11/16/2016	11/16/2016	No	--	--	24	10	10	4	16.92	Offsite Clay (Festival)	--	4	1	VOCs and dry weight	MW-319, PZ-319
		SW	42.583512	-87.843982																
		SE	42.583507	-87.843933																
		NE	42.58353	-87.843937																
	E19M	NW	42.583337	-87.844405	11/14/2016	11/14/2016	No	--	--	290	37	35	4	313.78	Offsite Clay (Festival)	--	4	1	Metals	MW-307, PZ-307
SW		42.583221	-87.844403																	
SE		42.583208	-87.844275																	
NE		42.583297	-87.844271																	
E20B	NW	42.582883	-87.844021	11/10/2016	11/11/2016	No	--	--	3,467	75	63	12	2,942.23	Offsite Clay (Festival)	Difference between volumes is concrete	8	2	VOCs, PAHs, and dry weight	MW-351, PZ-351	
	SW	42.582663	-87.844036																	
	SE	42.582649	-87.843815																	
	NE	42.582879	-87.843814																	
E21T	NW	42.582303	-87.843713	11/8/2016	11/9/2016	No	--	--	4,658	6,552	12	3,736.34	Offsite Clay (Festival)	--	10	3	VOCs and dry weight	None		
	SW	42.582029	-87.843944																	
	SE	42.582024	-87.843746																	
	NE	42.582165	-87.843553																	
	W	42.582117	-87.844005																	
E22B	NW	42.582236	-87.726524	11/4/2016	11/8/2016	Yes	4/20/2017	6/1/2017	6,045	17,044	12	7,237.50	CS7 Berm Soil, Offsite Clay (Festival, KWU)	Extended at southwest corner, northwest corner and northeast corner until joined to E10T	17 (8 initial) (9 additional)	5 (4 initial) (1 additional)	VOCs, PAHs, and dry weight	MW-350, PZ-350		
	SW	42.581947	-87.726535																	
	SE	42.581968	-87.726122																	
	NE	42.582299	-87.726058																	
E23P	NW	42.581900	-87.726346	6/29/2017	6/29/2017	No	--	--	5,547	65	120	12	5,521.88	Offsite Clay (Festival, KWU)	--	8	5	PCBs		
	SW	42.581567	-87.726359																	
	SE	42.581564	-87.726118																	
	NE	42.581897	-87.726107																	
E25T	NW	42.583418	-87.843298	11/14/2016	11/14/2016	Yes	4/11/2017	4/11/2017	1,493	35	80	12	1,710.95	Offsite Clay (Festival)	Extended to north	7 (4 initial) (3 additional)	2	VOCs and dry weight	MW-410	
	SW	42.583246	-87.843275																	
	SE	42.583244	-87.843168																	
	NE	42.583415	-87.843165																	
E27L	NW	42.583045	-87.843342	11/11/2016	11/11/2016	No	--	--	2,347	54	62	12	1,750.69	Offsite Clay (Festival)	--	8	2	VOCs, PAHs, and dry weight	MW-417	
	SW	42.582889	-87.843326																	
	SE	42.582877	-87.843154																	
	NE	42.583059	-87.843128																	
E33T	NW	42.581191	-87.841438	11/15/2016	11/17/2016	Yes	4/25/2017	4/25/2017	3,733	5,550	12	4,196.06	Offsite Clay (Festival)	Small extension to east at 33T-SW-4	9 (8 initial) (1 additional)	3	VOCs and dry weight	MW-63		
	SW	42.580918	-87.841412																	
	SE	42.580901	-87.841254																	
	NE	42.581191	-87.841234																	

Table A-2
Groups A and B Excavation Details
Location Coordinates, Dimensions and Documentation
Former Kenosha Engine Plant, Kenosha, Wisconsin

Group	Excavation	GPS Coordinates			Start Date	End Date	Extended?	Extention Date Start	Extention Date Finish	Estimated Excavation Volumes (Tons)	Final Dimensions			Actual Excavation Volumes (Tons)	Backfill Sources	Comments	Number of Sidewall Samples	Number of Bottom Samples	Verification Sample Analytical Parameters	Wells Abandoned
		Direction	Latitude	Longitude							X (ft)	Y (ft)	Depth (ft)							
B	E35P	NW	42.581087	-87.840419	11/30/2016	11/30/2016	Yes	4/25/2017	4/25/2017	1,280	1,830	12	1,988.43	Offsite Clay (Festival)	Extended to southwest and a small area to southeast	9 (7 initial) (2 additional)	3	PCBs	MW-1005	
		SW	42.581067	-87.840354																
		SE	42.581183	-87.840085																
		NE	42.581234	-87.840114																
	E38T	NW	42.583968	-87.845114	11/14/2016	11/14/2016	No	--	--	24	10	10	4	137.26	Offsite Clay (Festival)	--	4	1	VOCs and dry weight	MW-354, PZ-354
		SW	42.583931	-87.845115																
		SE	42.58392	-87.845091																
		NE	42.583958	-87.845074																
	E39T	NW	42.582821	-87.845025	11/14/2016	11/14/2016	No	--	--	59	10	10	10	111.38	Offsite Clay (Festival)	--	4	1	VOCs and dry weight	None
		SW	42.582796	-87.845039																
		SE	42.582793	-87.845004																
		NE	42.582807	-87.844983																
	E40T	NW	42.580450	-87.727534	11/14/2016	11/14/2016	Yes	4/11/2017	4/25/2017	48	20	40	8	411.54	Offsite Clay (Festival)	Extended to north, east and south	8 (4 initial) (4 additional)	1	VOCs and dry weight	MW-310, PZ-310
		SW	42.580339	-87.727539																
		SE	42.580337	-87.727464																
		NE	42.580447	-87.727459																
	E41T	NW	42.580808	-87.727319	11/14/2016	11/14/2016	Yes	4/11/2017	4/25/2017	24	20	40	4	240.83	Offsite Clay (Festival)	Extended to north, east and south	8 (4 initial) (4 additional)	1	VOCs and dry weight	MW-320, PZ-320
		SW	42.580808	-87.727324																
		SE	42.580697	-87.727324																
		NE	42.580695	-87.727245																
	E42M	NW	42.583594	-87.843615	11/16/2016	11/16/2016	No	--	--	24	10	10	4	29.71	Offsite Clay (Festival)	--	4	1	Metals	None
SW		42.583585	-87.843592																	
SE		42.583552	-87.843589																	
NE		42.583574	-87.843572																	
E43T	NW	42.582521	-87.843726	11/14/2016	11/14/2016	No	--	--	94	20	20	4	68.94	Offsite Clay (Festival)	--	4	1	VOCs and dry weight	None	
	SW	42.582447	-87.843712																	
	SE	42.582456	-87.843641																	
	NE	42.582529	-87.843637																	
E44T	NW	42.584375	-87.842894	11/3/2016	11/3/2016	No	--	--	24	10	10	4	20.60	CS7 Berm Soil	--	4	1	VOCs and dry weight	None	
	SW	42.582033	-87.725905																	
	SE	42.582032	-87.842855																	
	NE	42.584371	-87.842846																	
E45T	NW	42.580103	-87.726176	11/14/2016	11/14/2016	Yes	4/11/2017	4/25/2017	35	10	30	6	59.62	Offsite Clay (Festival)	Extended to the north in two increments	6 (4 initial) (2 additional)	1	VOCs and dry weight	PZ-412	
	SW	42.582338	-87.843244																	
	SE	42.582341	-87.843197																	
	NE	42.580102	87.726141																	
E46T	NW	42.583404	87.727207	10/21/2016	10/21/2016	No	--	--	320	13	32	12	247.30	Offsite Clay (Festival)	--	4	1	VOCs and dry weight	MW-504, PZ-504	
	SW	42.585659	-87.844283																	
	SE	42.585662	-87.844184																	
	NE	42.583404	-87.727155																	
K	E9P	NW	42.582514	-87.727762	7/3/2017	7/3/2017	No	--	--	166	70	10	2	117.01	Not backfilled, in cut area of group K	--	0	13	PCBs	None
		SW	42.597294	-87.727215																
		SE	42.582479	-87.727499																
		NE	42.582511	-87.727497																

Notes: -- = Excavation not extended and therefore, no comments.

Excavations numbered E28 through E32 were removed as part of an early remediation activity documented in the *CS2 Remedial Action Documentation Report*, December 2015.

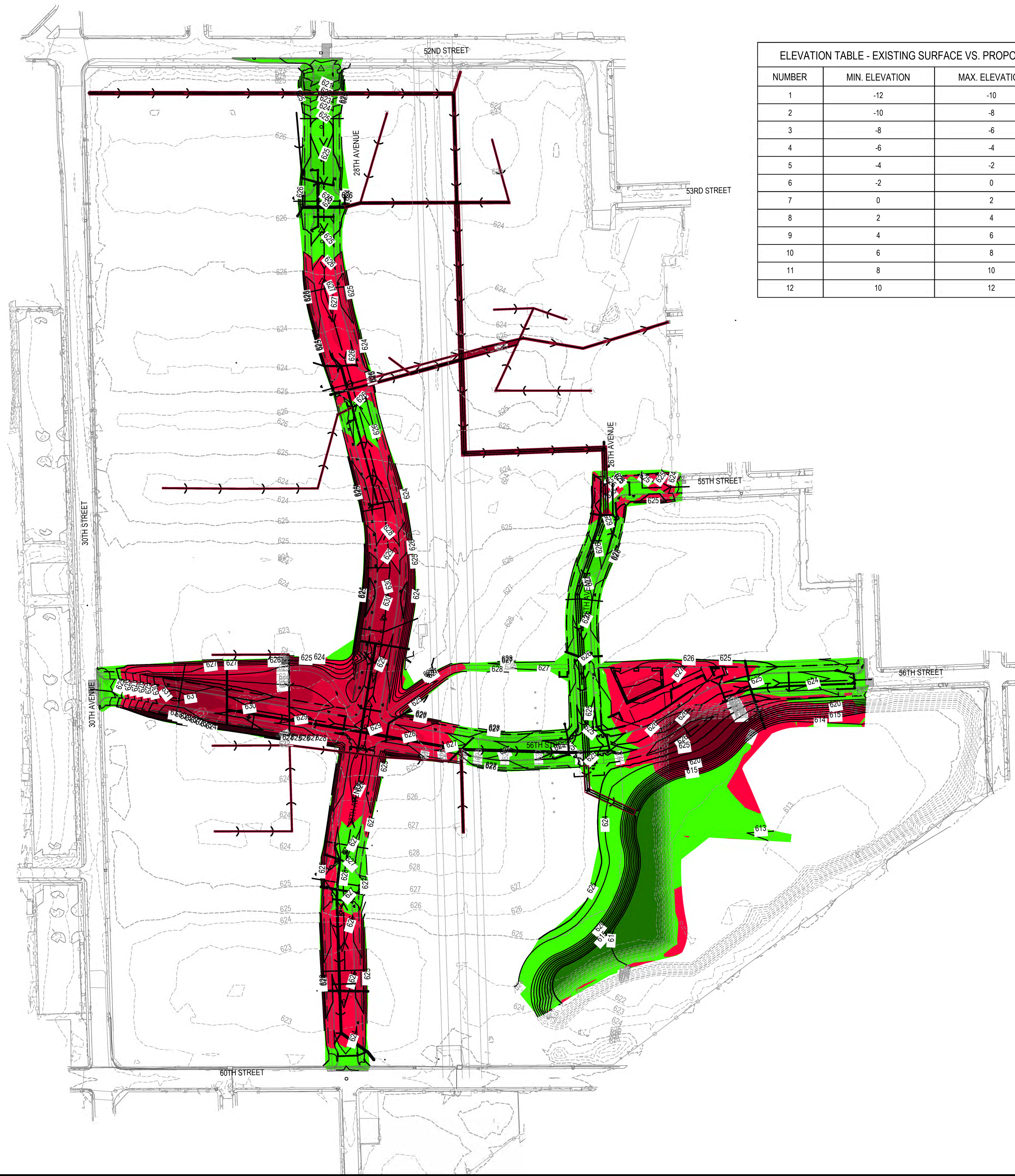
Excavations E12 and E37 were removed from the remediation program after reconsideration of the data for these planned areas.

The difference in the volume in tons between estimated and actual is due to either a different weight soil (than the weight used for the conversion from cubic yards to tons or the presence of subsurface concrete (footings, machine bases, support columns, etc.). Subsurface concrete was removed and recycled.

Estimated excavation volume in tons was calculated from the estimated cubic yards in the "Technical Specifications and Plans to the Kenosha Engine Plant Site Wide Soil Remediation" dated August 5, 2016 times a 1.6 cubic yards to tons conversion factor.

Appendix C Infrastructure Layout, Utility Drawings, Cut/Fill Map

FILE: C:\Users\dushman\SmithGroup Companies Inc\PRJ - 12900 - SmithGroup - SmithGroup\CAD\05 Civil\STUDIES\2024-0103 CUT FILL EXHIBIT\2900-P1-06100.dwg USER: dushman DATE: Jan, 05 2024 TIME: 09:59 am



ELEVATION TABLE - EXISTING SURFACE VS. PROPOSED SURFACE			
NUMBER	MIN. ELEVATION	MAX. ELEVATION	COLOR
1	-12	-10	█
2	-10	-8	█
3	-8	-6	█
4	-6	-4	█
5	-4	-2	█
6	-2	0	█
7	0	2	█
8	2	4	█
9	4	6	█
10	6	8	█
11	8	10	█
12	10	12	█

SHEET NOTES

- THIS EXHIBIT IS FOR REFERENCE PURPOSES TO CONVEY GENERAL LOCATIONS OF CUT AND FILL AND SHALL NOT BE USED FOR EARTHWORK CALCULATIONS.
- THIS EXHIBIT IS NOT PART OF THE CONTRACT DOCUMENTS AND SHALL NOT BE RELIED UPON BY THE CONTRACTOR.
- ASSUMPTIONS FOR EXCAVATION VOLUME CALCULATIONS INCLUDE:
 - EXISTING SURFACE TO BE STRIPPED OF 4" TOPSOIL
 - ROADWAY PROPOSED GRADE IS TO ROAD SUBGRADE

EXCAVATION COMMON (ENTIRE SITE)	
	CY
CUT	69397
FILL	48781
NET	20616
GRANT QUALIFYING	55145
NON-GRANT QUALIFYING	14252

BREAKDOWN	
CUT	(CY)
EX SURFACE VS	
PROPOSED SURFACE	11870
UTILITY TRENCH BACKFILL	32431
POND IMPROVEMENTS	25096
FILL	(CY)
EX SURFACE VS	
PROPOSED SURFACE	42137
POND IMPROVEMENTS	6644

KENOSHA INNOVATION NEIGHBORHOOD PHASE 1

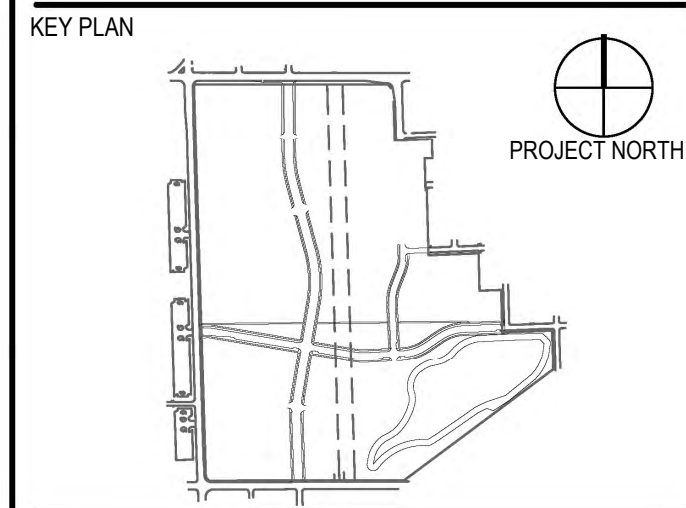
KENOSHA, WI
 Owner:
CITY OF KENOSHA

SMITHGROUP

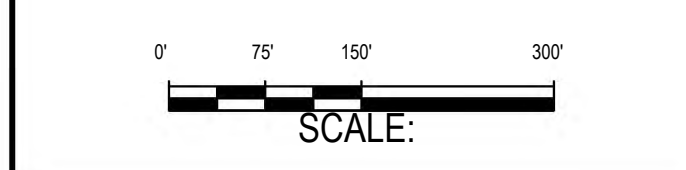
233 NORTH WATER STREET
 SUITE 502
 MILWAUKEE, WI 53202
 414.615.9570
 www.smithgroup.com

ISSUED FOR	REV	DATE

SEALS AND SIGNATURES



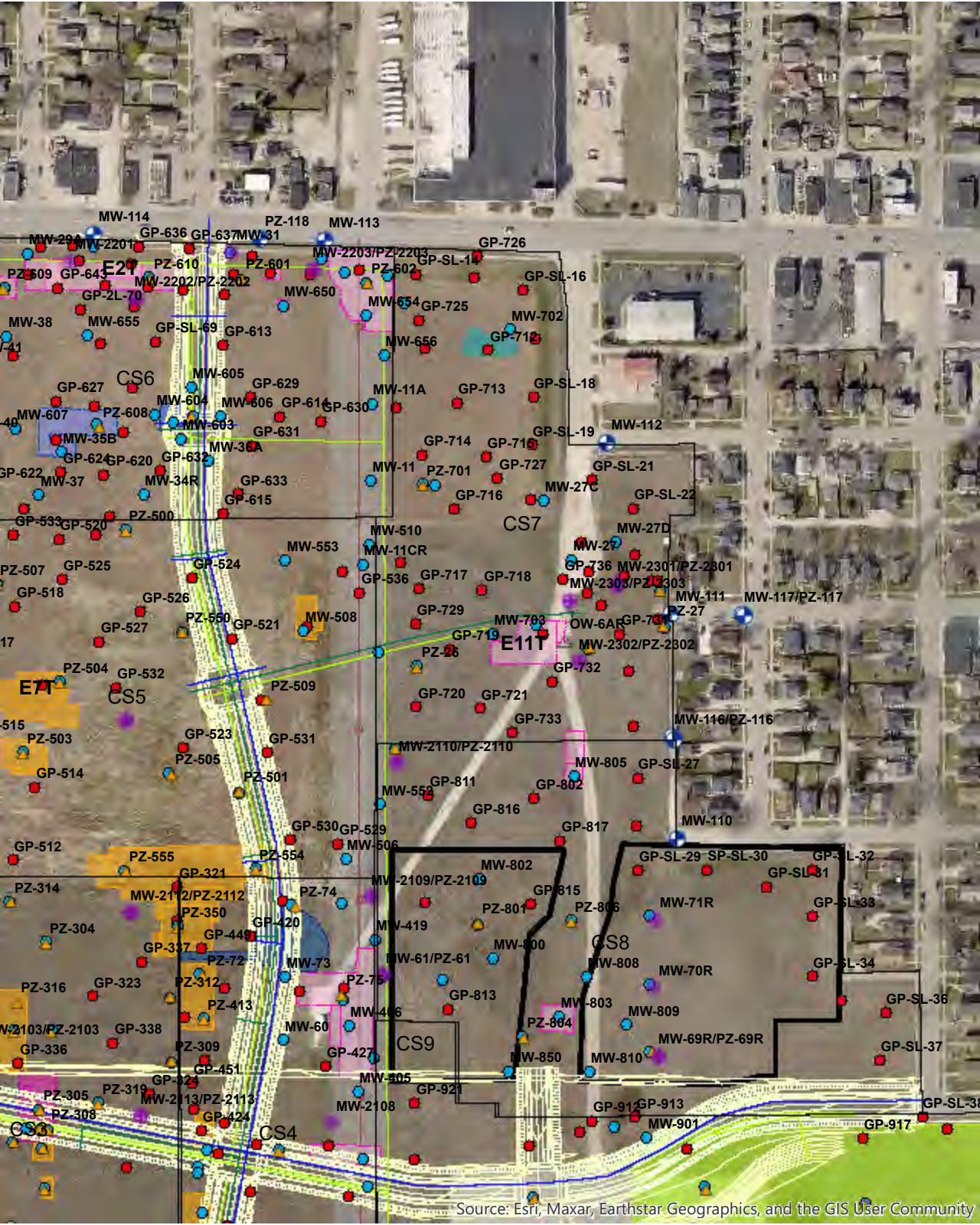
DRAWING TITLE
GRADING EXHIBIT - CUT/FILL SUMMARY

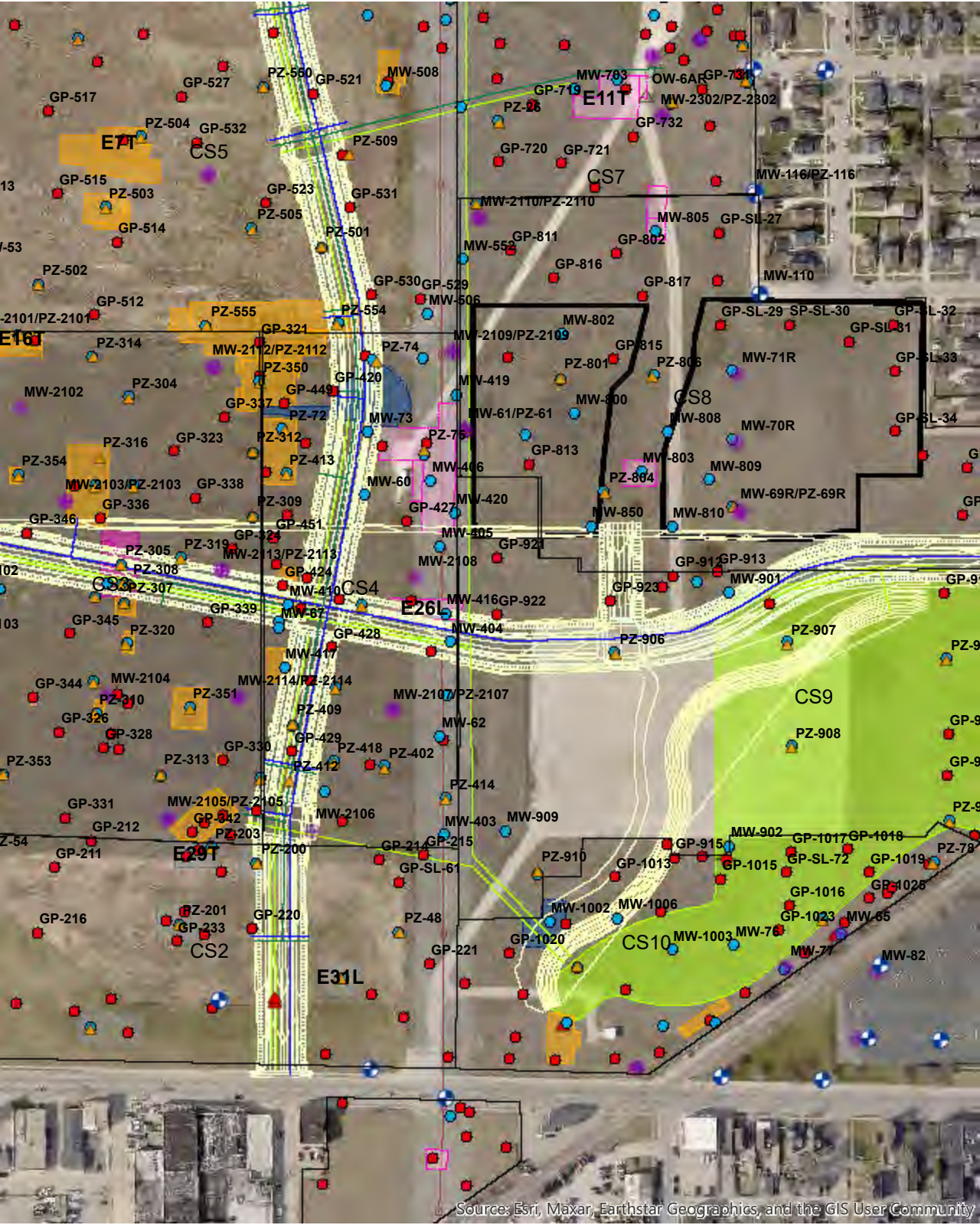


SCALE: _____ 12900

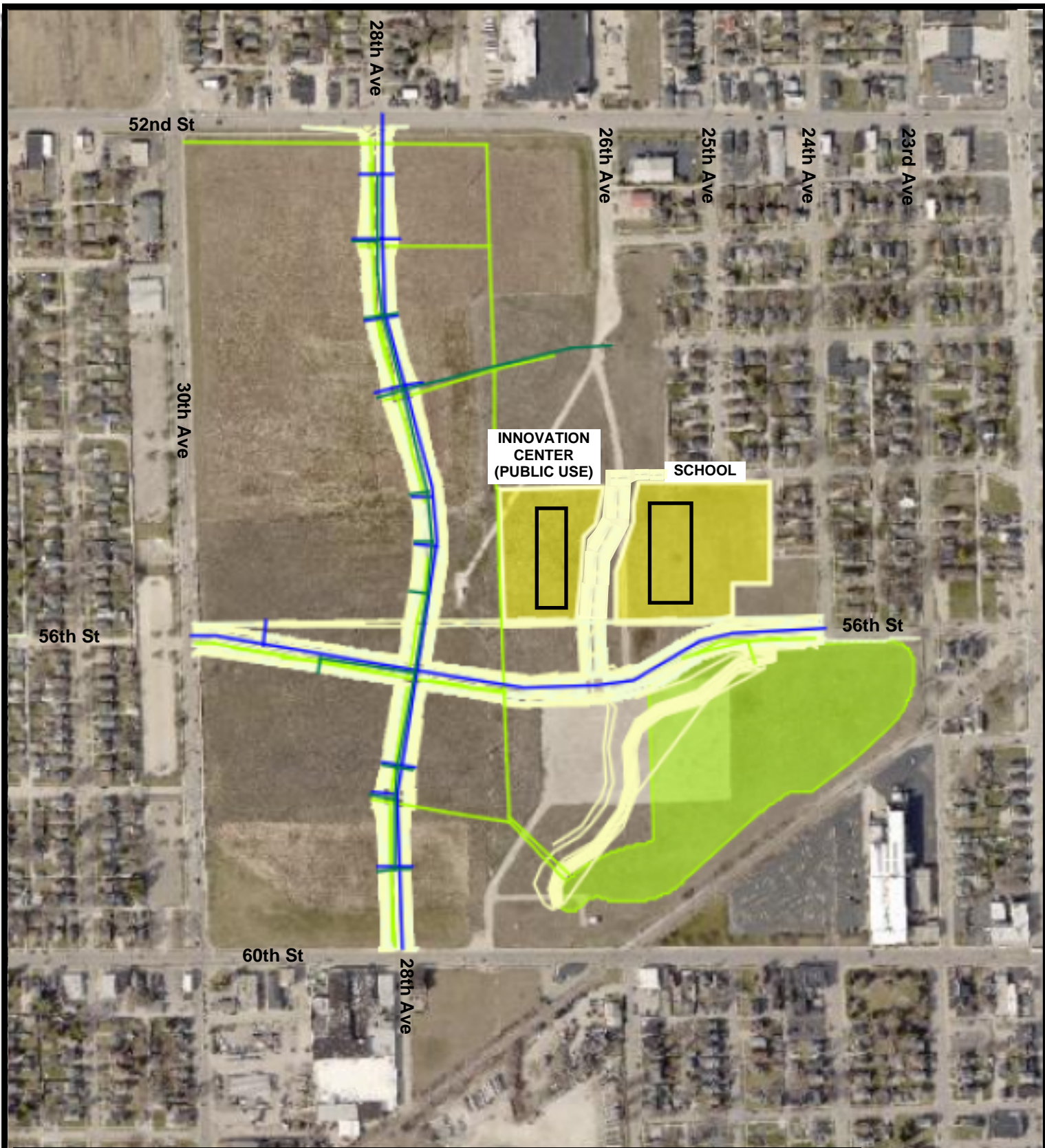
PROJECT NUMBER: _____

DRAWING NUMBER: _____





Appendix D Proposed Layout KIC and Cut/Fill Map

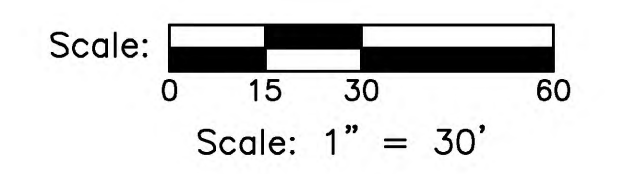


Base map is from 2020. Current aerial is not available in the GIS system. See Figure 2 for the current site layout.

Key: Proposed Storm Sewer Proposed Sanitary Sewer Proposed Water Line Current Dry Stormwater Pond	Proposed Roadway Proposed Building Parcel Berm for Proposed Stormwater Pond	AECOM Milwaukee Office 1555 RiverCenter Dr Milwaukee, WI 414.944.6080	KENOSHA INNOVATION NEIGHBORHOOD CITY OF KENOSHA KENOSHA, WISCONSIN
			PLANNED SITE LAYOUT KENOSHA INNOVATION CENTER
		Project Number: 60482705	Drawn By: CAK
			Date: 6/9/2022

Figure 2

CUT/FILL SUMMARY	
BUILDING PAD	1,983 CY FILL
FOOTINGS AND FOUNDATIONS	1,300 CY CUT
ASPHALT PAVEMENT	1,089 CY FILL
SIDEWALK	1,675 CY FILL
PERMEABLE PAVERS	195 CY FILL
GRASS	1,358 CY FILL
UTILITY SPOILS (SANITARY, STORM, WATER)	1,630 CY CUT
TOTAL CUT/FILL	3,370 CY FILL



DIGGERSHOTLINE
 Dial 811 or (800)242-8511
 www.DiggersHotline.com

HATCH INDEX

	CUT: 5.0'+
	CUT: 2.5' TO 5.0'
	CUT: 0.0' TO 2.5'
	FILL: 0.0' TO 2.5'
	FILL: 2.5' TO 5.0'
	FILL: 5.0'+



KEY PLAN

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
11/07/2023	CONSTRUCTION DOCUMENTS

PROJECT INFORMATION

KENOSHA INNOVATION CENTER

KENOSHA, WI 53140

SHEET INFORMATION

SHEET NAME: CUT-FILL MAP

PROJECT NUMBER: 23-2045
 PROJECT MANAGER: PK

C104C

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