

January 12, 2024

Ms. Jennifer Meyer Remediation and Redevelopment Program Wisconsin Department of Natural Resources 1027 West St. Paul Avenue Milwaukee, WI 53233 Project # 40441

Subject: Status Report and Supplemental Site Investigation Work Plan

Community Within the Corridor – East Block 2748 N 32<sup>nd</sup> Street, Milwaukee, WI 53208 BRRTS # 02-41-263675, FID # 241025400

Dear Ms. Meyer:

On behalf of the Community Within the Corridor Limited Partnership (CWC), K. Singh & Associates, Inc. (KSingh) prepared this *Status Report and Supplemental Site Investigation Work Plan* for the above referenced site (Figure 1). This report documents additional site investigation (SI) work performed in 2023 and presents a Supplemental Site Investigation Work Plan (SSIWP) per the Wisconsin Department of Natural Resources (WDNR) December 11, 2023, request.

#### 1.0 Project Background

KSingh was retained to perform environmental consulting services for the redevelopment of the property. Following a Phase I Environmental Site Assessment (ESA), a Phase II ESA, and Sub-Slab Vapor Sampling, a Post-Closure Modification Request was submitted to the WDNR on July 8, 2020. Following submission of the Post-Closure Modification Request, KSingh performed a Sub-Slab Vapor Investigation of the building. Based on the Sub-Slab Vapor Investigation, it was determined that a vapor mitigation system would be required for the facility in addition to construction and maintenance of engineered barriers which was documented in a Remedial Action Plan (RAP) dated March 19, 2021.

KSingh performed a Phase II ESA to identify and provide information regarding potential impacts within the facility from historical land use in April 2020. The locations of soil borings are shown in Figure 2. Soil borings B-7 to B-12 were performed to depths of two to twenty feet below ground surface (bgs) on April 10, 2020, to assess areas of contamination in the East Block. Soil samples were collected and analyzed for volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), Resource Conservation and Recovery Act (RCRA) metals, polychlorinated biphenyls (PCBs), pesticides and herbicides. On June 25, 2020, a hand auger sample B-16 was performed to a depth of two feet and analyzed for Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS).



Within the soils both petroleum and chlorinated VOCs were detected along with PAHs, PCBs, arsenic, and lead at concentrations above residual contaminant levels (RCLs) for the protection to groundwater and/or non-industrial, direct-contact exposure pathways. Soils analyzed for PFAS were either below the laboratory's method detection limit (MDL) or below the non-industrial, direct-contact exposure pathway. All other soil samples were below respective groundwater protection RCLs for pesticides and herbicides. Petroleum and chlorinated VOCs, naphthalene, arsenic, cadmium, chromium, and lead were detected in groundwater at concentrations above Wisconsin Administrative Code (WAC) NR 140 groundwater standards.

After the Phase II ESA, further site investigation activities (January through March 2021) were performed to evaluate sub-slab vapor and soil quality conditions within the footprint of the existing buildings, which were undergoing remodeling as part of site redevelopment. The vapor intrusion assessment occurred first, is on-going, and has been documented in numerous reports. A supplementary site investigation was performed in July 2022, with the construction of groundwater monitoring wells EB-MW-3R and EB-MW-4RR, the abandonment of EB-MW-4R.

On November 16, 2023, KSingh submitted a *Revised Remedial Action Options Report* to the WDNR. The report was submitted in response to the WDNR's September 7, 2023, Remedial Action Options Report (RAOR) review letter, which did not approve the RAOR, and requested that an updated RAOR be submitted that incorporated the feedback provided in the letter.

On December 11, 2023, the WDNR reviewed the *Revised Remedial Actions Options Report* for compliance with WAC, NR 722 and 724, and concurred with the remedial strategy, with comments and recommendations to incorporate and/or consider. The following comments were provided regarding the Site Investigation Status:

"As identified in the DNR's Site Investigation Review letter, dated December 22, 2021, site investigation has not yet been approved by the DNR. More specifically, the groundwater investigation and sewer vapor investigation are not complete. Below are additional comments on the site investigation status:

- 1. Groundwater contaminated with chlorinated volatile organic compounds (CVOCs) at MW-2 located in the northern courtyard of the site appears to be present within a perched groundwater table that exists within that fill interval immediately below the ground surface. Groundwater contamination at MW-2 remains laterally undefined. Install additional monitoring wells that are appropriately screened within the fill interval to laterally define the groundwater contamination at MW-2. Consider installing monitoring wells to the north, east and west of MW-2 to determine whether groundwater contamination may extend off-site and to help to evaluate potential off-site migration pathways and receptors of the contamination.
- 2. The DNR requests that manhole sample locations Sanitary Manhole 25 (EB-IA-1), Sanitary Manhole 26 (EB-IA-2), and Sanitary Manhole 19 (EB-IA-3) be sampled again as TCE exceeded 10% of the sanitary sewer gas screening level at all of these locations during the May 2021 sampling event. The DNR recommends that the sewer vapor samples be collected using passive samplers for a minimum duration of one-week. For additional information on investigating utilities as a preferential vapor pathway and sewer vapor sample collection, you may reference DNR guidance document RR-649, Guidance for Documenting the Investigation of Human-made Preferential Pathways Including Utility Corridors. Please include information on the flow direction of the sanitary sewer in W. Center St. and N. 32nd St. rights-of of way and locations of historical sewer laterals (if available) in future reports, where applicable."



#### 2.0 Additional Site Investigation

On March 21 and March 22, 2023, two (2) soil borings (EB-MW-1R and EB-MW-7) were advanced by Soils & Engineering Services, Inc. (SES) utilizing a Geoprobe 7822 DT rig capable of turning 8.25-inch outside diameter hollow-stem augers. The soil boring logs and borehole abandonment forms are presented as Attachment A, and the soil boring/groundwater monitoring well locations are shown on the attached Figure 2.

EB-MW-1R was constructed to replace groundwater monitoring well EB-MW-1 located on the northeastern corner of the site. EB-MW-1 was dry since installed in May 2021; therefore, EB-MW-1R was drilled in an attempt to construct a groundwater monitoring well. EB-MW-1R was blind drilled to approximately 26 feet below ground surface (bgs), after which split spoon soil sampling was attempted. Refusal occurred at 26.5 feet bgs, after which the borehole was abandoned in accordance with WAC, NR 141. The abandoned borehole naming convention was EB-MW-1R<sub>1</sub>. Soil boring EB-MW-1R<sub>2</sub> was off-set approximately three (3) feet to the north of EB-MW-1R<sub>1</sub>, and was blind drilled to 28 feet bgs, after which split spoon soil samples were collected to the boring termination depth of 70 feet bgs. Groundwater was not encountered; therefore, the borehole was allowed to remain open, and periodically monitored to see if groundwater would accumulate. Groundwater did not accumulate in EB-MW-1R<sub>2</sub>; therefore, the borehole was abandoned in accordance with WAC, NR 141 on July 18, 2023.

An attempt was made to drill EB-MW-7 along the western side of the site near North 32<sup>nd</sup> Street; however, refusal occurred at two (2) feet bgs on what was believed to be a concrete vault, and the borehole was abandoned in accordance with WAC, NR 141. Due to refusal, a second attempt to advance EB-MW-7 was made by offsetting approximately four (4) feet south; however, refusal occurred again at two (2) feet bgs.

In general, soils beneath 30 feet bgs in EB-MW-1R were silty sands, underlain by silts to sandy silts to the boring termination depth of 70 feet bgs.

Recovered soil samples were brought to the surface, examined by the field crew, field screened for VOCs using a 11.7 electron volt photoionization detector (PID). Following screening, soil samples from 28 to 30 feet bgs, and 63 to 65 feet bgs from EB-MW-1R, and 2 to 4 feet bgs from EB-MW-7 were placed in laboratory supplied containers and placed on ice in a cooler. The soil samples were submitted to Eurofins-Test America, Inc. (Eurofins), University Park, Illinois using proper chain-of-custody procedures for laboratory analysis of VOCs using EPA Method 8260B, PAHs using EPA Method 8270E, PCBs using EPA Method 8082E, and RCRA metals using EPA Method 6020B/7470A.

#### 2.2.1 Soil Analytical Results

The soil laboratory analytical report is included in Attachment B, and analytical results are summarized in Table 1.

VOCs and PCBs were not detected at concentrations above laboratory analytical MDLs in soil samples collected from EB-MW-1R<sub>2</sub> (28'-30') and (63'-65'), and EB-MW-7 (2'-4').

Benzo (a) pyrene, and dibenz (a,h) anthracene were detected in soil sample EB-MW-1R<sub>2</sub> (28'-30') at concentrations above their respective WAC, NR 720 non-industrial, direct-contact RCLs, and benzo (b) fluoranthene and chrysene exceeded their respective groundwater pathway RCLs. Soil sample EB-MW-1R<sub>2</sub> (63'-65') had no PAH detections at concentrations above analytical MDLs except for phenanthrene which was detected at an estimated concentration between its reporting limit and MDL. There are no RCLs for phenanthrene.



Soil sample EB-MW-7 had several PAHs detected at concentrations above MDLs; however, the detections were all below RCLs.

RCRA Metals were detected in all three (3) of the soil samples collected; however, the concentrations were either below RCLs, or background threshold values (BTV).

#### 2.2.2 Groundwater Sampling

On November 14, 2023, groundwater sampling was completed for four (4) of the six (6) groundwater monitoring wells located on the site (EB-MW-2, EB-MW-4RR, EB-MW-5, and EB-MW-6). Groundwater monitoring well EB-MW-1 was dry, and groundwater monitoring well EB-MW-3R was not accessible.

Prior to groundwater sampling, the monitoring wells expandable caps were removed, and groundwater allowed to equilibrate prior to the measurement of static water levels. Depth to water was measured in each monitoring well using a Durham Geo Slope Indicator water level indicator and measuring from the top of PVC casing. Four (4) volumes of groundwater were then purged from each well with a dedicated, clean bailer. Groundwater elevation data is summarized in Table 2.

Following purging, groundwater samples were collected in accordance with the DNR's Groundwater Field Sampling Manual, placed in laboratory supplied containers and preserved on ice in a cooler. The groundwater samples were submitted to Eurofins using proper chain-of-custody procedures for laboratory analysis. Groundwater samples were analyzed for VOCs using EPA Method 8260D, PAHs using EPA Method 8270E, RCRA Metals using EPA Method 6020B/7470A, and PCBs using EPA Method 8082E. Groundwater samples analyzed for RCRA metals were filtered by Eurofins. A duplicate sample was collected from EB-MW-2 and submitted for VOC, PAH, RCRA Metals, and PCB laboratory analysis. A trip blank was submitted for VOC laboratory analysis. Purge water was placed in a labeled 55-gallon drum which is staged on-site pending disposal

#### 2.2.3 Site Hydrogeology

The November 14, 2023, static water levels in the groundwater monitoring wells ranged from approximately 8.61 feet below top of casing (TOC) (EB-MW-2) to 23.40 feet below TOC (EB-MW-6), or 676.90 and 652.31 feet mean sea level, respectively. A groundwater contour map, generated from November 14, 2023, static water levels is presented as Figure 3. Overall site groundwater flow direction appears to be to the south, from EB-MW-2, which is located in the northern courtyard, towards EB-MW-5 which is located near the southwestern corner of the site. However, there is a local depression in the area surrounding EB-MW-4RR and EB-MW-6. Specifically, the groundwater elevation is lowest at EB-MW-6, and groundwater flows from EB-MW-2, EB-MW-4RR, and EB-MW-5 towards EB-MW-6. Horizontal hydraulic gradients ranged from 0.03 feet/foot (ft/ft) between EB-MW-2 and EB-MW-5, to 0.09 ft/ft between EB-MW-5 and EB-MW-6.

#### 2.2.4 Groundwater Regulatory Criteria and Analytical Results

Groundwater analytical results are summarized in the attached Tables 3 through 6. The laboratory report and chain-of-custody form are included in Attachment C.



The WDNR has established groundwater quality standards, which are set forth in NR 140, WAC. For each regulated compound, two standards have been established, the Enforcement Standard (ES) and the Preventive Action Limit (PAL). In general, if the regulated contaminant exceeds the PAL, but is below the ES, the WDNR may require additional investigation/continued monitoring. If the regulated contaminant is above its ES, the WDNR may require additional investigation, continued monitoring, and/or remediation.

Several petroleum VOCs (PVOCs) and chlorinated VOCs (CVOCs) were detected at concentrations above MDLs in groundwater from EB-MW-2; however, benzene and trichloroethene (TCE) were the only compounds detected at concentrations above WAC, NR 140 standards. Benzene, detected at a concentration of 6.8 micrograms per liter (ug/L) was the only PVOC detected at concentrations above its ES, and TCE, detected at 11 ug/L, was the only CVOC detected at concentrations above its ES. The ES for benzene and TCE is 5 ug/L. VOCs were not detected at concentrations above analytical MDLs in the groundwater samples collected from groundwater monitoring wells MW-4RR, MW-5, and MW-6. The exception was methylene chloride, which was detected at estimated concentrations between its RL and MDL in all samples, including the trip blank. Methylene chloride is a common laboratory artifact and is assumed to not be present in the groundwater.

Naphthalene,1-methylnaphthalene, and 2-methylnapthalene were the only PAHs detected in EB-MW-2 at concentrations above analytical MDLs. Naphthalene was detected at 4 ug/L, which is below its PAL of 10 ug/L, and there no WAC, NR 140 standards for methylnaphthalene. PAHs were not detected at concentrations above MDLs in groundwater from EB-MW-4RR, and EB-MW-5. Several PAHs were detected in groundwater from EB-MW-6; however, the detected PAH compounds were either below PALs, or have no WAC, NR 140 standards.

Arsenic, barium, cadmium, lead, and selenium were the only metals detected at concentrations above MDLs. Arsenic was detected at estimated concentrations between the RL and MDL in all four (4) samples; however, concentrations were below its PAL of 1 ug/L. Barium was detected in all four (4) samples, but at concentrations below its PAL of 400 ug/L. Cadmium was detected at estimated concentrations between its RL and MDL in MW-4RR and MW-6, but below its PAL of 0.50 ug/L. Lead was detected at concentrations well below its PAL in the four (4) wells; additionally, the lab flagged the samples as found in the blank. Selenium was detected at a concentration of 12 ug/L in groundwater monitoring well MW-5, which is above its PAL of 10 ug/L.

PCBs were not detected at concentrations above analytical MDLs in groundwater from wells MW-5 and MW-6. PCB-1248 was detected at an estimated concentration between its RL and MDL at 0.31ug/L, which is above its ES of 0.003 ug/L, in MW-2. PCB-1260 was detected in MW-4RR at a concentration of 56 ug/L, which is above its ES of 0.003 ug/L.

#### 2.2.5 Investigation Derived Waste (IDW)

Soil cuttings generated during the additional investigation were placed in six (6) labeled 55-gallon drums and temporarily staged in the central courtyard pending disposal. Two (2) additional drums from the previous consultant, KPRG & Associates, Inc, which contained soil from vapor mitigation system installation were staged with the six drums. In addition, one (1) groundwater drum located in a cold storage building (Building 3A) that contained purge water from EB-MW-2 was poured into the Milwaukee Metropolitan Sewerage Districts approved NOI discharge location. The eight (8) drums of soils were appropriately managed and disposed of at a local Subtitle D landfill facility.



#### 3.0 Supplemental Site Investigation Work Plan

Based on the December 11, 2023, WDNR SI status letter request, the following supplemental site investigation (SSI) work plan is presented.

#### 3.1 Health and Safety Plan

Protecting the health and safety of the investigative team, as well as the general public, is a major concern during the field investigation. This is particularly important in cases where workers may be exposed to known or unknown chemicals, heat stress, physical stress, slips/trips/falls, biologic agents, equipment-related injuries, fire, and explosion. Many of these hazards are encountered in any type of field study, but exposure to chemical hazards, including toxicity, is a major concern for the investigative team that needs to be addressed.

Chemical hazards in soil and groundwater associated with the historical use of the site are of principal concern. Particulate emissions in the air may also be a concern. A PID will be used to monitor the quality of air at the project site. Because the investigation will not be conducted in a confined space, special precautions may not be required. However, Level D protection will be required for the staff actively involved in the implementation of the fieldwork.

Level D protection is primarily a work uniform. Level D personal protective equipment includes:

- 1. Coveralls:
- 2. Reflective safety vest;
- Gloves:
- 4. Boots/shoes, chemical-resistant steel toe and shank;
- 5. Safety glasses or chemical splash goggles; and
- 6. Hard hat.

The field investigation team will be required to take precautions at Level D. A higher level of protection may be required if data gathered during the field investigation indicates high concentrations of VOCs in ambient air using a PID. Field staff shall utilize disposable supplies to prevent cross-contamination between samples.

#### 3.2 Utility Locate in Work Area

In an effort to locate utilities in the work area, Diggers Hotline and a private utility locate performed prior to drilling. To the extent practicable, the locations and depths of the various utilities will be identified to avoid damage to such utilities. The proposed boring locations may be modified based upon the presence of utilities, or if access is otherwise restricted.

# 3.3 Groundwater Monitoring Well Installation

#### 3.3.1 Soil Sampling

Per the WDNR request, KSingh personnel will supervise the installation of three (3) soil borings (EB-MW-8 through EB-MW-10) in the northern courtyard near EB-MW-2 to facilitate collection of soil and groundwater samples. The borings will be advanced to approximately twenty-five (25) feet bgs, to the north, east and west of EB-MW-2 in an attempt to determine groundwater CVOC contamination extent. The borings will be advanced using a drill rig capable of collecting soil samples using direct-push methods as well as turning hollow-stem augers.



The locations of the proposed borings/monitoring wells are shown in Figure 2. The actual locations of the borings may need to be modified in the field based on accessibility, the presence of utilities, etc.

The drilling method utilized for soil sampling collection will be a dry process, direct-push type, which advances a 2-inch diameter steel tube containing a plastic two-foot to five-foot sampling tube. The sampling is continuous, with the sampling tube being hydraulically pushed deeper into the substrata four feet to five feet per sample, in accordance with ASTM D 1587-08(2012)e1 to the terminus of each boring. The plastic sampling tube will be replaced for each sampling interval which will prevent cross-contamination. The outer protective tube will be cleaned in between sampling locations to prevent cross-contamination.

Soil samples will be subjected to qualitative screening in the field for VOCs using a photoionization detector (PID). Soil characteristics (e.g., texture, color) and any unusual odors or discoloration will be noted on each soil boring log. Soil samples for laboratory analysis will be selected based on PID readings and/or field observation. It is planned that two soil samples per boring will be collected for laboratory testing. The estimated depths of the collection will be from the direct-contact interval of 1 to 4 feet bgs (shallow), and the second just above the soil/groundwater interface (deeper) to evaluate the unsaturated vertical extent of the contamination. The soil samples will be collected in laboratory-supplied containers, put on ice, transported to a certified laboratory using chain-of-custody procedures, and tested for the following parameters:

- VOCs in accordance with EPA Method 8260B (both shallow and deeper samples).
- PAHs in accordance with EPA Method 8270D (both shallow and deeper samples).
- RCRA Metals (ICP) in accordance with EPA Method 6010B (both shallow and deeper samples).

#### 3.3.2 Groundwater Monitoring Well Installation

Upon completion of soil sampling, three groundwater monitoring wells (EB-MW-8 through EB-MW-10) will be installed. Conventional Hollow Stem Auger (HSA) drilling methods will be used, and the selected driller will be responsible for their equipment decontamination following company policies. Depth to groundwater is variable on-site; however, based upon EB-MW-2 construction, and the WDNRs comment that the CVOC groundwater contamination appears to be present within a perched groundwater table that exists within the fill interval, the proposed well screen depths are estimated to be between 10 to 25 feet bgs to intersect the water table. The screen intervals will be determined in the field based on the soils encountered and the presence of saturated material. The groundwater monitoring wells will be installed using HSA per NR 141, WAC. The shallow monitoring wells will be constructed by attaching a 10 or 15-foot length of 2-inch inside-diameter, 0.010-inch slotted, PVC well screen to a solid PVC riser pipe. A sand filter pack will be placed around the screen to a depth of approximately one foot above the top of the screen. The remainder of the borehole will be filled with bentonite to near the ground surface. The groundwater monitoring wells will be completed with flush mount well protectors.

#### 3.3.3 Groundwater Monitoring Well Development

Following installation, the groundwater monitoring wells will be developed with disposable bailers per NR 141, WAC. The development water will be placed in labeled drums and temporarily staged on-site.



#### 3.3.4 Engineering Survey

The groundwater monitoring wells will be surveyed relative to the National Geodetic Vertical Datum (NGVD). The ground surface and top of casing elevations will be measured to the nearest 0.01 feet, and State Plane Coordinates will be determined for each groundwater monitoring well.

#### 3.3.5 Groundwater Monitoring Well Sampling

Not sooner than one week following well development, groundwater samples will be collected from the three (3) newly installed groundwater monitoring wells (EB-MW-8 through EB-MW-10), and the existing monitoring wells (EB-MW-2, EB-MW-3R, EB-MW-4R, EB-MW-5, and EB-MW-6). Prior to groundwater sampling, the groundwater monitoring wells expandable caps will be opened, and groundwater allowed to equilibrate prior to the collection of static water levels. Purge volumes will be calculated in accordance with WDNR's Groundwater Sampling Field Manual, and sampling will be performed using clean, disposable bailers after purging is complete. The groundwater samples will be collected in laboratory-supplied containers, placed on ice, and transferred under chain-of-custody protocol to a Wisconsin-certified laboratory for analysis, and tested for the following parameters:

- VOCs in accordance with EPA Method 8260B.
- PAHs in accordance with EPA Method 8270D.
- RCRA Metals (ICP) in accordance with EPA Methods 6020A/ 7470A.
- PCBs in accordance with EPA Method 8082A.

The selected laboratory will perform QA/QC procedures in accordance with the company policies. A duplicate and trip blank will also be submitted for VOC laboratory analysis

#### 3.3.6 Investigation Derived Waste Disposal

Soil cuttings will be containerized in labeled 55-gallon drums for temporary storage on site. Upon receipt of the analytical results, KSingh will arrange for the appropriate disposal of the drums generated during well construction. Groundwater purge water will be disposed of to combined sewers via the approved MMSD Notice of Intent.

#### 4.0 Sanitary Sewer Vapor Survey

Per the WDNR request, sewer vapor samples be collected using passive samplers for a minimum duration of one-week from the following sanitary manholes: Sanitary Manhole 25 (EB-IA-1), Sanitary Manhole 26 (EB-IA-2), and Sanitary Manhole 19 (EB-IA-3) which are presented on Figure 2. KSingh personnel will deploy one (1) Radiello 130 passive sampler in each manhole, at approximately 1-foot above the liquid surface utilizing magnets attached to the manhole cover and string support. The passive samplers will be left in place for 1 week, after which point, they will be recovered and shipped under chain of custody protocol to Eurofins Air Toxics, LLC of Folsom, California for laboratory analysis of tetrachloroethene (PCE), trichloroethene (TCE), trans-dichloroethane (DCE), cis-DCE, and vinyl chloride (VC) using USEPA Method TO-15.

The analytical results will be compared to Sanitary Sewer Gas Screening Levels (SSGSLs). The SSGSLs will be calculated in accordance with procedures in WDNR publication RR-649, *Guidance for Documenting the Investigation of Human-made Preferential Pathways Including Utility Corridors*. The SSGSL is calculated by dividing the Vapor Action Level by an attenuation factor of 0.03.



Sanitary sewer flow direction of the sanitary sewer in West Center Street and North 32nd Street rights-of way and locations of historical sewer laterals (if available) will be obtained.

#### 3.4 Supplemental Site Investigation Report

The procedures and results of the SSI will be presented in a *Supplementary Site Investigation Report*, which will include recommendations.

#### 3.11 Project Schedule

The SSI schedule is based on favorable weather conditions, driller availability, and obtaining approvals (if needed) in a timely manner. The following preliminary schedule is proposed:

•	Groundwater Monitoring Well Installation	February/March 2024
•	Groundwater Monitoring Well Development (1 week after install)	February/March 2024
•	Sanitary Sewer Vapor Assessment	February 2024
•	Perform Survey of new Groundwater Monitoring Wells	March 2024
•	Sample the Groundwater Monitoring Wells (1 week after develop)	March 2024
•	Submit SSI Report.	April 2024

Please contact us at (262) 821-1171 if you have any questions.

Sincerely,

K. SINGH & ASSOCIATES, INC.

Timothy P. Welch, P.G.

Timothy Probable

Senior Geologist

Pratap N. Singh, Ph.D., P.E

Belief No luh

Principal Engineer

cc: Shane LaFave / Roers Companies Que El-Amin / Scott Crawford, Inc.

Attachments:

Figure 1 Topographic Map of Project Location

Figure 2 Site Diagram

Figure 3 Groundwater Contour Map (November 14, 2023)

Table 1 Soil Quality Test Results
Table 2 Groundwater Elevation Data

Table 3 Groundwater Quality Test Results-VOCs
 Table 4 Groundwater Quality Test Results-SVOCs
 Table 5 Groundwater Quality Test Results-RCRA Metals

Table 6 Groundwater Quality Test Results-PCBs

Attachment A Soil Boring Logs and Borehole Abandonment Forms

Attachment B Soil Laboratory Analytical Results

Attachment C Groundwater Laboratory Analytical Results



# **FIGURES**



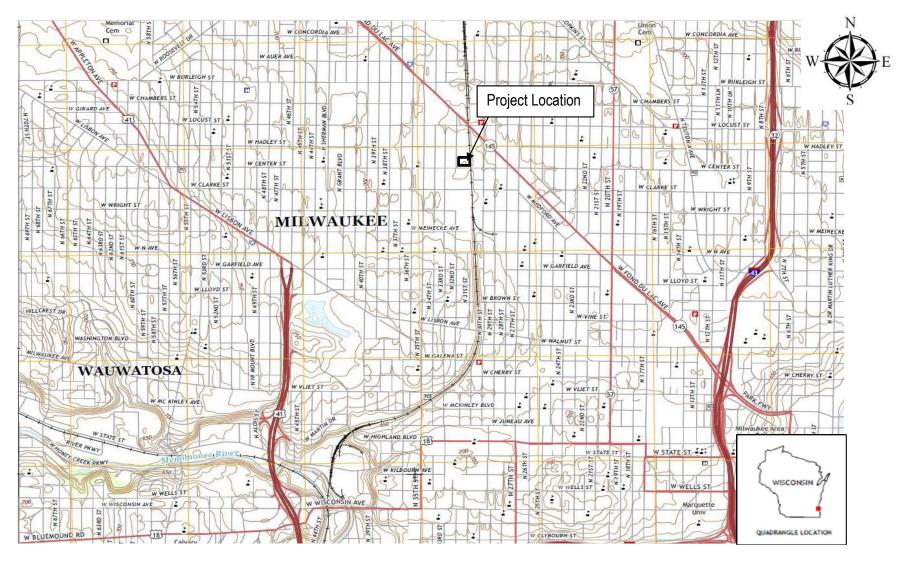
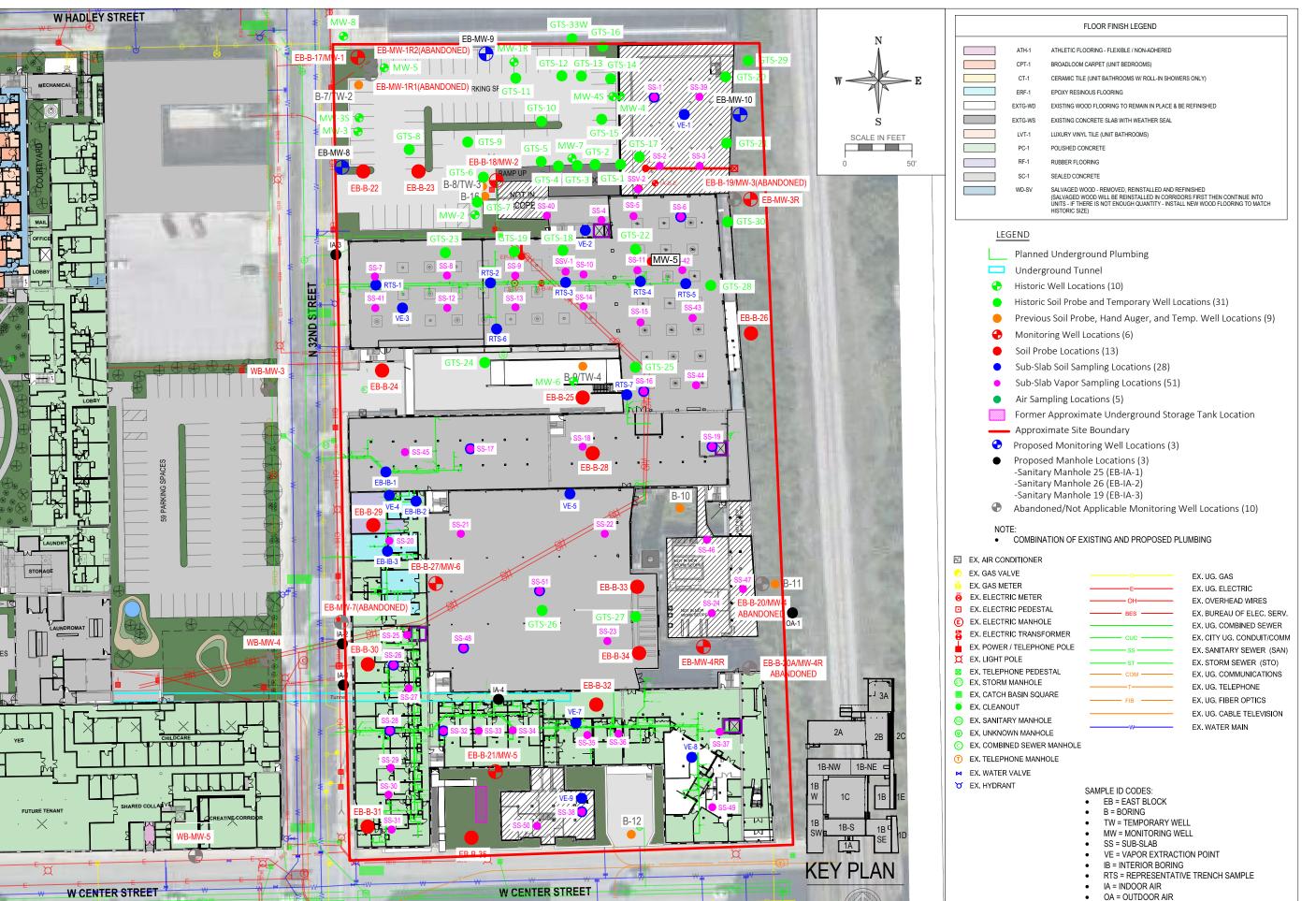


Figure 1. Topographic Map of Project Location from 2016 Milwaukee, WI 7.5-Minute Series Map Scale 1: 24,000





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KSingh Engineer Scientist Consulta

3636 North 124th Street Wauwatosa, WI 53222 262-821-1171

CONSULTANT

PROJECT TITLE: SITE INVESTIGATION REPORT COMMUNITY WITHIN THE CORRIDOR 2748 N. 32nd Street MILWAUKEE, WI 53210 PROJECT NUMBER: 40449

COMMUNITY WITHIN THE CORRIDOR LIMITED PARTNERSHIP

CLIENT:

SITE DIAGRAM

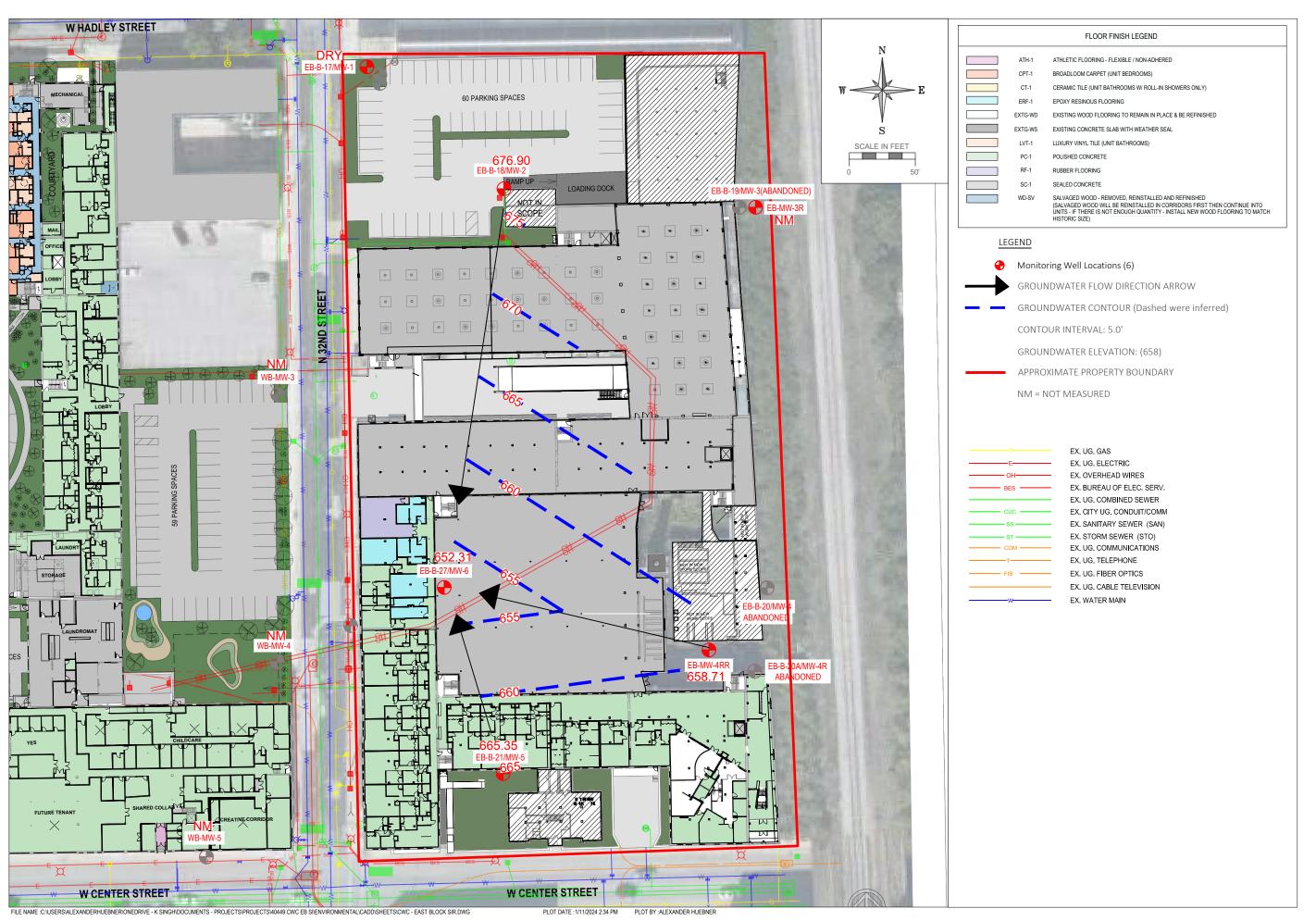
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# FIGURE 2

SHEET 3 of SHE



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3636 North 124th Street Wauwatosa, WI 53222 262-821-1171

CONSULTANT

PROJECT TITLE: SITE INVESTIGATION REPORT COMMUNITY WITHIN THE CORRIDOR 2748 N. 32nd Street MILWAUKEE, WI 53210 PROJECT NUMBER: 40449

COMMUNITY WITHIN THE CORRIDOR LIMITED PARTNERSHIP

DRAWN BY DATE AMH 01/10/2024
CHECKED BY DATE 01/10/2024
SHEET TITLE

GROUNDWATER CONTOUR MAP (NOVEMBER 14, 2023)

# FIGURE 3

SHEET 3 of S



# COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

# MILWAUKEE, WI

Sample				NR 720 RCLs -	NR 720 RCLs -		EB-RTS-1	EB-RTS-2	EB-RTS-3	EB-RTS-4	EB-RTS-5	EB-RTS-6	EB-RTS-7	B-7	B-8	B-9	B-10	B-11	B-12	B-16
Depth (feet)			NR 720 RCLs	Non-Industrial	Industrial Use		0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	3-5	9-11	4-6	3-4	2-3	3.5-5.5	1-2
Soil Type	Units	Method	for GW	Use for Direct	for Direct	Background	Silty CLAY	F. Sandy CLAY	Gravelly CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Sandy CLAY	SAND & GRAVEL	Silty CLAY	Sandy CLAY	FILL	FILL	Silty CLAY	Gravelly CLAY
Soil Conditions			Protection (1)	Contact	Contact	Threshold Value	Moist	Moist	Moist	Moist	Moist	Moist	Unsaturated	Unstaturated	Unstaturated	Unstaturated	Unstaturated	Unstaturated	Unstaturated	Unsaturated
Sampling Date				Protection (1)	Protection (1)		4/6/2021	4/6/2021	4/6/2021	4/6/2021	4/6/2021	4/6/2021	4/6/2021	4/10/2020	4/10/2020	4/10/2020	4/23/2020	4/23/2020	4/10/2020	6/25/2020
Physical Characteristics							1/0/2021	17072021	17072021	17072021	17072021	17072021	1/0/2021	1/10/2020	171072020	1710/2020	172072020	1/20/2020	1/10/2020	0/20/2020
Percent Moisture							10.7	10.2	12.2	20.0	22.6	11.4	10.0	15.8	10.5	13.0	7.6	6.6	9.2	18.0
Percent Solids							89.3	89.8	87.8	80.0	77.4	88.6	90.0	84.2	89.5	87	92.4	93.4	90.8	82.0
							09.3	09.0	01.0	00.0	11.4	00.0	] 90.0	04.2	09.0	01	92.4	93.4	90.0	02.0
Volatile Organic Compounds (VOCs)		Loocop	0.0524	0.70	100	I	-0.000	1 .0.000	.0.054	.0.000	.0.000	-0.000	1 .0.000	.0.047	.0.044	-0.054	10.045	.0.044	-0.044	
1,1,1,2-Tetrachloroethane	mg/Kg	1	0.0534	2.78	<u>12.3</u>		<0.028	<0.028	<0.054	<0.033	<0.036	<0.029	<0.028	<0.047	<0.041	<0.051	<0.045	<0.044	<0.041	
1,1,1-Trichloroethane	mg/Kg	8260B	0.1402	640	<u>640</u>		<0.023	<0.023	<0.045	<0.027	0.032 J	<0.024	<0.023	<0.039	0.18	0.077 J	<0.037	<0.037	<0.034	
1,1,2,2-Tetrachloroethane	mg/Kg	8260B	0.0002	0.81	3.6		<0.024	<0.024	<0.047	<0.028	<0.031	<0.025	<0.024	<0.041	<0.035	<0.044	<0.039	<0.038	<0.035	
1,1,2-Trichloroethane	mg/Kg	8260B	0.0032	1.59	<u>7.01</u>		<0.022	<0.021	<0.042	<0.025	<0.028	<0.022	<0.021	<0.036	<0.031	<0.039	<0.035	<0.034	<0.031	
1,1-Dichloroethane	mg/Kg	8260B	0.4834	5.06	<u>22.2</u>		<0.025 *+	<0.025 *+	0.39 *+	0.81 *+	0.14 *+	<0.026 *+	<0.025 *+	<0.042	<0.036	<0.045	<0.040	<0.039	<0.036	
1,1-Dichloroethene	mg/Kg	8260B	0.005	320	<u>1,190</u>		<0.024	<0.024	<0.046	<0.027	<0.031	<0.024	<0.024	<0.040	<0.034	<0.043	<0.038	<0.038	<0.034	
1,1-Dichloropropene	mg/Kg	8260B					<0.018	<0.018	<0.035	<0.021	<0.024	<0.019	<0.018	<0.031	<0.026	<0.033	<0.029	<0.029	<0.026	
1,2,3-Trichlorobenzene	mg/Kg	8260B		62.6	<u>934</u>		<0.028	<0.028	<0.054	<0.032	<0.036	<0.029	<0.028	<0.047	<0.040	<0.050	<0.045	<0.044	<0.040	
1,2,3-Trichloropropane	mg/Kg	8260B	0.0519	0.005	<u>0.109</u>		<0.025	<0.025	<0.049	<0.029	<0.033	<0.026	<0.025	<0.042	<0.036	<0.046	<0.041	<0.040	<0.037	
1,2,4-Trichlorobenzene	mg/Kg	8260B	0.408	24	<u>113</u>		<0.021	<0.021	<0.040	<0.024	<0.027	<0.021	<0.021	< 0.035	<0.030	<0.038	<0.034	<0.033	<0.030	
1,2,4-Trimethylbenzene	mg/Kg	8260B	1.3787**	219	219		0.03 J	0.033 J	5.2	0.29	2.2	0.067	<0.022	0.11	34	0.35	<0.035	0.28	<0.032	
1,2-Dibromo-3-Chloropropane	mg/Kg	8260B	0.0002	0.008	0.092		<0.12	<0.12	<0.23	<0.14	<0.16	<0.12	<0.12	<0.20 *	<0.17 *	<0.22 *	<0.20 *	<0.19	<0.18 *	
1,2-Dibromoethane	mg/Kg	8260B	0.0000282	0.05	0.221		<0.024	<0.023	<0.046	<0.027	<0.030	<0.024	<0.024	<0.040	<0.034	<0.042	<0.038	<0.037	<0.034	
1,2-Dichlorobenzene	mg/Kg	8260B	1.168	376	376		<0.020	<0.020	<0.039	<0.024	<0.026	<0.021	<0.020	<0.034	<0.029	<0.037	<0.033	<0.032	<0.030	
1,2-Dichloroethane	mg/Kg	8260B	0.0028	0.652	2.87		<0.024	<0.024	<0.046	<0.028	<0.031	<0.024	<0.024	<0.040	<0.034	<0.043	<0.038	<0.038	<0.035	
1,2-Dichloropropane	mg/Kg	8260B	0.0033	3.4	15		<0.026 +*	<0.026 *+	<0.050 *+	<0.030 *+	<0.034 *+	<0.027 *+	<0.026 *+	<0.044	<0.038	<0.047	<0.042	<0.041	<0.038	
1,3,5-Trimethylbenzene	mg/Kg	8260B	1.3787**	182	182		<0.023	<0.023	1.9	0.075	0.25	0.026	<0.023	<0.039	14	0.080 J	<0.037	0.11	<0.034	
1,3-Dichlorobenzene	mg/Kg	8260B	1.1528	297	297		<0.025	<0.024	<0.047	<0.028	<0.032	<0.025	<0.024	<0.041	<0.035	<0.044	<0.039	<0.038	<0.035	
1,3-Dichloropropane	mg/Kg	8260B	0.0003	2.37	10.6		<0.023	<0.022	<0.047	<0.026	<0.032	<0.023	<0.024	<0.037	<0.032	<0.044	<0.035	<0.035	<0.032	
1,4-Dichlorobenzene	mg/Kg	8260B	0.144	3.74	16.4		<0.022	<0.022	<0.043	<0.026	<0.029	<0.023	<0.022	<0.037	<0.032	<0.040	<0.036	<0.035	<0.032	
2,2-Dichloropropane	mg/Kg	8260B		191	191		<0.027	<0.027	<0.052	<0.031	<0.035	<0.028	<0.027	<0.045	<0.039	<0.049	<0.044	<0.043	<0.039	
2-Chlorotoluene	mg/Kg			907	907		<0.019	<0.019	<0.037	<0.022	<0.025	<0.020	<0.019	<0.032	<0.028	<0.035	<0.031	<0.030	<0.028	
4-Chlorotoluene	mg/Kg	8260B		253	253		<0.013	<0.013	<0.037	<0.025	<0.023	<0.020	<0.013	<0.032	<0.020	<0.039	<0.034	<0.034	<0.020	
Benzene	mg/Kg	8260B	0.0051	1.6	7.07		<0.0090	<0.0089	0.065	0.044	0.04	0.011 J	<0.0089	0.077	0.13	0.046	<0.014	0.055	<0.031	
Bromobenzene	mg/Kg	8260B		342	679		<0.0090	<0.0009	<0.042	<0.025	<0.028	<0.022	<0.003	<0.077	<0.031	<0.039	<0.035	<0.034	<0.013	
Bromochloromethane	mg/Kg	8260B		216	906		<0.022	<0.022	<0.050	<0.030	<0.026	<0.022	<0.022	<0.044	<0.031	<0.039	<0.033	<0.041 *	<0.031	
Bromodichloromethane	mg/Kg	8260B	0.0003	0.418	1.83		<0.020	<0.020	<0.044	<0.026	<0.029	<0.027	<0.020	<0.038	<0.033	<0.047	<0.036	<0.036	<0.033	
Bromoform	mg/Kg	8260B	0.0003	25.4	113		<0.023	<0.029	<0.057	<0.034	<0.029	<0.023	<0.023	<0.050	<0.043	<0.053	<0.047	<0.047	<0.043	
Bromomethane	mg/Kg	8260B	0.0023	9.6	43		<0.030	<0.029	<0.094	<0.056	<0.063	<0.050	<0.029	<0.081 *	<0.070 *	<0.088 *	<0.047	<0.047 <0.077 *F1	<0.043	
Carbon tetrachloride	mg/Kg	8260B	0.0031	0.916	4.03		<0.049	<0.023	<0.045	<0.027	<0.030	<0.030	<0.048	<0.039	<0.070	<0.042	<0.078	<0.077	<0.070	
Chlorobenzene	mg/Kg	8260B		370	761		<0.024	<0.023	<0.045	<0.027	<0.030	<0.024	<0.023	<0.040	<0.034	<0.042	<0.038	<0.037	<0.034	
Chloroethane	mg/Kg	8260B	0.2266	2,120	2,120		<0.024	<0.023	<0.059	<0.036	<0.040	<0.024	<0.024	<0.052	<0.044	<0.042	<0.049 *	<0.048 *	<0.045	
Chloroform	mg/Kg	8260B	0.0033	0.454	1.98		<0.023	<0.022	<0.044	<0.026	<0.029	<0.023	<0.023	<0.032	<0.032	<0.041	<0.049	<0.036	<0.033	
Chloromethane	mg/Kg	8260B	0.0055	159	669		<0.020	<0.019	<0.038	<0.023	<0.025	<0.020	<0.019	<0.033	<0.032	<0.035	<0.030	<0.031	<0.038	
cis-1,2-Dichloroethene	mg/Kg	8260B	0.0412	156	2,340		<0.025	<0.019	0.098 J	0.023	0.4	<0.020	<0.019	<0.042	0.052 J	<0.035	<0.040	<0.039	<0.026	
				1,210				<0.025	<0.049	<0.029	<0.033	<0.025	<0.025	<0.042	<0.037	<0.045	<0.040	<0.039	<0.036	
cis-1,3-Dichloropropene Dibromochloromethane	mg/Kg mg/Kg	8260B 8260B	0.0003 0.032	8.28	1,210		<0.026 <0.030	<0.025	<0.049	<0.029	<0.039	<0.026	<0.025	<0.043	<0.037	<0.046	<0.041	<0.040	<0.037	
	+			34	38.9 143		<0.030	<0.030	<0.032	<0.034	<0.039	<0.030	<0.030	<0.050	<0.043	<0.030	<0.048	<0.047	<0.043	
Dibromomethane  Dichlorodifluoromethano	mg/Kg		2 0862					<0.016	<0.032		<0.021	<0.017		<0.028	<0.024 <0.059	<0.030	<0.026 *			
Dichlorodifluoromethane  Ethylhonzono	mg/Kg		3.0863 1.57	126 8.02	<u>530</u>		<0.041			<0.048			<0.041	+			<del> </del>	<0.065	<0.060	
Ethylbenzene	mg/Kg				35.4 7.10		<0.011	0.013 J	0.61	0.088	0.33	0.016	<0.011	0.051	5.6	0.13	<0.018	0.08	<0.016	
Hexachlorobutadiene	mg/Kg			1.63	7.19 2.260		<0.027	<0.027	<0.053	<0.031	<0.035	<0.028	<0.027	<0.046	<0.039	<0.049	<0.044	<0.043	<0.039	
Isopropyl ether	mg/Kg	-		2,260	<u>2,260</u>		<0.017	<0.017	<0.033	<0.019	<0.022	<0.017	<0.017	<0.028	<0.024	<0.030	<0.027	<0.027	<0.024	
Isopropylbenzene Methyl tort butyl other	mg/Kg		0.027	268	<u>268</u>		<0.024 <0.024	<0.023 <0.024	0.29 <0.046	<0.027 <0.028	0.15 <0.031	<0.024 <0.025	<0.023 <0.024	<0.039 <0.040	1.8 <0.035	0.11 <0.043	<0.038 <0.039 *	<0.037 <0.038 *	<0.034 <0.035	
Methyl tert-butyl ether	mg/Kg	1	0.027	63.8	<u>282</u>		-	+					<del> </del>	-					<del> </del>	
Methylene Chloride	mg/Kg		0.0026	61.8	1,150		<0.10	<0.099	<0.19	<0.11	<0.13	<0.10	<0.099	<0.17	<0.14	<0.18	0.29 J*	0.27 J*	<0.14	
Naphthalene	mg/Kg		0.658182	5.52	24.10		0.055 J	0.028 J	1.7	0.062 J	0.12	0.073	<0.020	0.15	3.9	0.7	<0.033	0.69 B	<0.030	
n-Butylbenzene		8260B		108	108		<0.024	<0.024	2.2	0.11	0.19	<0.024	<0.024	<0.040	10	0.059 J	<0.038	<0.037	<0.034	
N-Propylbenzene	mg/Kg			264	<u>264</u>		<0.025	<0.025	0.74	0.061 J	0.26	<0.026	<0.025	<0.042	4.2	0.13	<0.041	0.048 J	<0.037	
p-Isopropyltoluene	mg/Kg	+		162	<u>162</u>		<0.022	<0.022	0.89	0.033 J	0.14	<0.023	<0.022	<0.037	5.1	<0.040	<0.035	<0.035	<0.032	
sec-Butylbenzene	mg/Kg		0.00	145	<u>145</u>		<0.024	<0.024	0.72	0.052 J	0.095	<0.025	<0.024	<0.041	3.8	0.045 J	<0.039	<0.038	<0.035	
Styrene	mg/Kg	1	0.22	867	<u>867</u>		<0.024	<0.023	<0.046	<0.027	<0.030	<0.024	<0.024	<0.040	<0.034	<0.042	<0.038	<0.037	<0.034	
tert-Butylbenzene	mg/Kg			183	183		<0.024	<0.024	0.058 J	<0.028	<0.031	<0.025	<0.024	<0.041	0.38	<0.044	<0.039	<0.038	<0.035	
Tetrachloroethene	mg/Kg		0.0045	33	145		<0.023	<0.022	<0.044	<0.026	<0.029	<0.023	<0.023	<0.038	0.15	<0.041	<0.036	<0.036	<0.033	
Toluene	mg/Kg		1.1072	818	<u>818</u>		0.012 J	0.015	0.058	0.039	0.052	0.046	<0.0090	0.28	0.23	0.29	<0.014	0.38	<0.013	
trans-1,2-Dichloroethene	mg/Kg		0.0626	1560	<u>1850</u>		<0.021	<0.021	<0.041	<0.025	0.03 J	<0.022	<0.021	<0.036	<0.031	<0.039	<0.034	<0.034	<0.031	
trans-1,3-Dichloropropene	mg/Kg			1,510	<u>1,510</u>		<0.022	<0.022	<0.043	<0.026	<0.029	<0.023	<0.022	<0.037	<0.032	<0.040	<0.035	<0.035	<0.032	
Trichloroethene	mg/Kg	8260B	0.0036	1.3	<u>8.41</u>		0.017 J	<0.0099	<0.019	0.02 J	0.02 J	0.071	0.032	<0.017	2.2	0.16	<0.016	<0.016	<0.014	
Trichlorofluoromethane	mg/Kg	8260B		1,230	<u>1,230</u>		<0.026	<0.026	<0.050	<0.030	<0.034	<0.027	<0.026	<0.044	<0.038	<0.047	<0.042	<0.041	<0.038	
Vinyl chloride	mg/Kg	8260B	0.0001	0.067	2.08		<0.016	<0.016	<0.031	<0.018	<0.021	<0.016	<0.016	<0.027	<0.023	<0.029	<0.026	<0.025	<0.023	
Xylenes, Total	mg/Kg	8260B	3.96	1,212	1212		<0.013	0.026 J	1.1	0.12	0.28	0.12	<0.013	0.37	15	1	<0.022	0.81	<0.019	
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# COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

# MILWAUKEE, WI

Sample				NR 720 RCLs -	NR 720 RCLs -		EB-RTS-1	EB-RTS-2	EB-RTS-3	EB-RTS-4	EB-RTS-5	EB-RTS-6	EB-RTS-7	B-7	B-8	B-9	B-10	B-11	B-12	B-16
Depth (feet)			NR 720 RCLs	Non-Industrial	Industrial Use	D. d	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	3-5	9-11	4-6	3-4	2-3	3.5-5.5	1-2
Soil Type	Units	Method	for GW	Use for Direct	for Direct	Background	Silty CLAY	F. Sandy CLAY	Gravelly CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Sandy CLAY	SAND & GRAVEL	Silty CLAY	Sandy CLAY	FILL	FILL	Silty CLAY	Gravelly CLAY
Soil Conditions	1		Protection (1)	Contact	Contact	Threshold Value	Moist	Moist	Moist	Moist	Moist	Moist	Unsaturated	Unstaturated	Unstaturated	Unstaturated	Unstaturated	Unstaturated	Unstaturated	Unsaturated
Sampling Date	1		'	Protection (1)	Protection (1)		4/6/2021	4/6/2021	4/6/2021	4/6/2021	4/6/2021	4/6/2021	4/6/2021	4/10/2020	4/10/2020	4/10/2020	4/23/2020	4/23/2020	4/10/2020	6/25/2020
Method 8260B - Volatile Organic Compoounds - TCLP			l				4/0/2021	7/0/2021	4/0/2021	4/0/2021	4/0/2021	4/0/2021	4/0/2021	4/10/2020	4/10/2020	7/10/2020	4/20/2020	4/20/2020	4/10/2020	0/20/2020
			ı	1		ı						1	1	Т	ı	1	ı			
1,1-Dichloroethene	mg/L																			
1,2-Dichloroethane	mg/L	8260B																		
Benzene	mg/L	8260B																		
Carbon tetrachloride	mg/L	8260B																		
Chlorobenzene	mg/L	8260B																		
Chloroform	mg/L	8260B																		
	1 -	_				-			l		<u> </u>	-	+					<u> </u>		+
Methyl Ethyl Ketone	mg/L	8260B																		
Tetrachloroethene	mg/L	8260B																		
Trichloroethene	mg/L	8260B																		
Vinyl Chloride	mg/L	8260B																		
Semivolatile Organic Compounds (SVOCs)																				
1,2,4-Trichlorobenzene	mg/Kg	8270D	0.408	24	113												<0.038	<0.038		
1,2-Dichlorobenzene	mg/Kg	8270D	1.168	376	376												<0.042	<0.042		
1,3-Dichlorobenzene		+	1.1528	297	297		<del> </del>										<0.042	<0.042		
	mg/Kg			_																
1,4-Dichlorobenzene	mg/Kg	8270D	0.144	3.74	<u>16.4</u>												<0.045	<0.045		
1-Methylnaphthalene	mg/Kg			17.6	<u>72.7</u>												<0.0087	0.27		
2,2'-oxybis[1-chloropropane]	mg/Kg	8270D															<0.041	<0.041		
2,4,5-Trichlorophenol	mg/Kg	8270D		6320	<u>82,100</u>												<0.081	<0.081		
2,4,6-Trichlorophenol	mg/Kg			49.3	209												<0.12	<0.12		
2,4-Dichlorophenol	mg/Kg			190	2460												<0.084	<0.084		
2,4-Dimethylphenol	mg/Kg			1260	16,400												<0.13	<0.13		
2,4-Dinitrophenol	mg/Kg			126	1640		1		<u> </u>			+	+			<del> </del>	<0.62	<0.62		+
	+																			
2,4-Dinitrotoluene	mg/Kg	8270D	0.0001	1.74	7.37												<0.056	<0.056		
2,6-Dinitrotoluene	mg/Kg	8270D	0.0001	0.363	<u>1.54</u>												<0.070	<0.070		
2-Chloronaphthalene	mg/Kg	8270D		4780	<u>60,300</u>												<0.039	<0.039		
2-Chlorophenol	mg/Kg	8270D		391	<u>5,840</u>												<0.061	<0.060		
2-Methylnaphthalene	mg/Kg	8270D		239	3010												< 0.0065	0.39		
2-Methylphenol	mg/Kg	8270D		3160	41,000												<0.057	<0.057		
2-Nitroaniline	mg/Kg			627	8010												<0.048	<0.048		
2-Nitrophenol	mg/Kg	+															<0.084	<0.084		
							1		<u> </u>		1		+			+				+
3 & 4 Methylphenol	mg/Kg	_		9480**	<u>123,100**</u>												<0.059	<0.059		
3,3'-Dichlorobenzidine	mg/Kg																<0.050	<0.050		
3-Nitroaniline	mg/Kg																<0.11	<0.11		
4,6-Dinitro-2-methylphenol	mg/Kg	8270D															<0.28	<0.28		
4-Bromophenyl phenyl ether	mg/Kg	8270D															<0.047	<0.047		
4-Chloro-3-methylphenol	mg/Kg	8270D		6320	82,100												<0.12	<0.12		
4-Chloroaniline	mg/Kg	8270D		2.71	11.5												<0.17	<0.17		
4-Chlorophenyl phenyl ether	mg/Kg	+															<0.041	<0.041		
4-Nitroaniline		8270D		27.1	115						<u> </u>	t					<0.15	<0.15		+
	mg/Kg			_																
4-Nitrophenol	mg/Kg				45.000												<0.34	<0.34		
Acenaphthene	mg/Kg	8270D		3590	<u>45,200</u>												<0.0064	<0.0064		
Acenaphthylene	mg/Kg																<0.0047	<0.0047		
Anthracene	mg/Kg		196.9492	17,900	<u>100,000</u>												0.016 J	0.087		
Benzo[a]anthracene		8270D		1.14	21												0.074	0.36		
Benzo[a]pyrene		8270D	0.47	0.115	<u>2.11</u>												0.11	0.39		
Benzo[b]fluoranthene	mg/Kg			1.15	21.1												0.16	0.59		
Benzo[g,h,i]perylene	mg/Kg				<u> </u>												0.062	0.18		
							1					-	-						<b>.</b>	
Benzo[k]fluoranthene	mg/Kg			11.5	<u>211</u>												0.05	0.21		
Benzoic acid	mg/Kg			100,000	100,000												<0.35	<0.35		
Benzyl alcohol	mg/Kg			6320	<u>82,100</u>												<0.35	<0.35		
Bis(2-chloroethoxy)methane	mg/Kg	8270D		190	<u>2460</u>												<0.036	<0.036		
Bis(2-chloroethyl)ether	mg/Kg	8270D		0.286	<u>1.29</u>												< 0.053	<0.053		
Bis(2-ethylhexyl) phthalate	mg/Kg	+	2.88	38.8	164												<0.065	0.24		
Butyl benzyl phthalate	mg/Kg	1		286	1210												<0.067	<0.067		
Carbazole	mg/Kg	+															<0.089	<0.088		
							1				1	1								+
Chrysene	mg/Kg		0.1442	115	<u>2110</u>												0.094	0.45		
Dibenz(a,h)anthracene	mg/Kg			0.115	<u>2</u>												<0.0069	0.055		
Dibenzofuran	mg/Kg	8270D		73	<u>1040</u>												<0.042	0.11 J		
		•		•			•				•	-	-	-		-	-	•	•	



# COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

# MILWAUKEE, WI

Comple			1	1	1	1	ED DTC 4	ED DTC 4	ED DTC 2	ED DTC 4	ED DTC E	ED DTC C	ED DTC 7	D 7	D 0	D 0	D 40	D 44	D 40	D.46
Sample	-			NR 720 RCLs -	NR 720 RCLs -		EB-RTS-1	EB-RTS-2	EB-RTS-3	EB-RTS-4	EB-RTS-5	EB-RTS-6	EB-RTS-7	B-7	B-8	B-9	B-10	B-11	B-12	B-16
Depth (feet)	┥	1	NR 720 RCLs	<b>I</b>	Industrial Use	Background	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	3-5	9-11	4-6	3-4	2-3	3.5-5.5	1-2
Soil Type	Units	Method	for GW	Use for Direct	for Direct	Threshold Value	Silty CLAY	F. Sandy CLAY	Gravelly CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Sandy CLAY	SAND & GRAVEL	Silty CLAY	Sandy CLAY	FILL	FILL	Silty CLAY	Gravelly CLAY
Soil Conditions			Protection (1)	I	Contact		Moist	Moist	Moist	Moist	Moist	Moist	Unsaturated	Unstaturated	Unstaturated	Unstaturated	Unstaturated	Unstaturated	Unstaturated	Unsaturated
Sampling Date				Protection (1)	Protection (1)		4/6/2021	4/6/2021	4/6/2021	4/6/2021	4/6/2021	4/6/2021	4/6/2021	4/10/2020	4/10/2020	4/10/2020	4/23/2020	4/23/2020	4/10/2020	6/25/2020
Diethyl phthalate	mg/Kg	8270D		50,600	100,000												<0.060	< 0.060		
Dimethyl phthalate	mg/Kg																<0.046	<0.046		
Di-n-butyl phthalate	mg/Kg		5.0333	6320	82,100												<0.054	<0.054		
7 1	<del></del>		0.0000											<del>                                     </del>			<0.058			
Di-n-octyl phthalate	mg/Kg			632	<u>8210</u>													<0.058		
Fluoranthene	mg/Kg	+	88.8778	2390	<u>30,100</u>												0.18	0.84		
Fluorene	mg/Kg		14.8299	2390	<u>30,100</u>												0.0054 J	<0.0050		
Hexachlorobenzene	mg/Kg	8270D	0.0252	0.252	<u>1.15</u>												<0.0082	<0.0082		
Hexachlorobutadiene	mg/Kg	8270D		1.63	<u>7.19</u>												<0.056	<0.056		
Hexachlorocyclopentadiene	mg/Kg	8270D		2.55	<u>10.8</u>												<0.20	<0.20		
Hexachloroethane	mg/Kg	8270D		2.52	11.1												< 0.054	< 0.054		
Indeno[1,2,3-cd]pyrene	mg/Kg	8270D		1.15	21.1												0.054	0.16		
Isophorone	mg/Kg	8270D		571	2420												<0.040	<0.040		
Naphthalene	mg/Kg	8270D	0.6582	5.52	24.1												<0.0055	0.23		
				_	+	<del> </del>								<b>—</b>			<0.0035	<0.0088		
Nitrobenzene	mg/Kg			0.070																
N-Nitrosodi-n-propylamine	mg/Kg	8270D		0.078	0.328												<0.043	<0.043		
N-Nitrosodiphenylamine	mg/Kg	8270D	0.0764	111	<u>469</u>												<0.042	<0.042		
Pentachlorophenol	mg/Kg	8270D	0.0028	1.02	<u>3.97</u>												<0.57	<0.57		
Phenanthrene	mg/Kg	8270D															0.078	0.65		
Phenol	mg/Kg	8270D	2.2946	19,000	100,000												<0.079	< 0.079		
Pyrene	mg/Kg		54.5455	1790	22,600												0.15	0.68		
Polycyclic Aromatic Hydrocarbons (PAHs)	19/1.19	02.02	0.10100	1111	==;000												0.10	0.00		
1-Methylnaphthalene	ma/Ka	8270D	T	17.6	72.7	T			I I				T	0.066 J	0.77	0.69		l	<0.0087	
	mg/Kg				72.7													+		
2-Methylnaphthalene	mg/Kg			239	3010									0.074 J	1.1	0.84			<0.0066	
Acenaphthene	mg/Kg			3590	<u>45,200</u>									0.1	0.47	0.041			<0.0064	
Acenaphthylene	mg/Kg													0.023 J	0.052	<0.0050			<0.0047	
Anthracene	mg/Kg	8270D	196.9492	17,900	<u>100,000</u>									0.19	0.55	0.074			<0.0060	
Benzo[a]anthracene	mg/Kg	8270D		1.14	21									0.91	0.83	0.3			0.012 J	
Benzo[a]pyrene	mg/Kg	8270D	0.47	0.115	2.11									1.1	0.87	0.32			< 0.0069	
Benzo[b]fluoranthene	mg/Kg	8270D	0.4781	1.15	21.1									1.5	0.95	0.57			<0.0077	
	+	+	1	+	+									0.4						
Benzo[g,h,i]perylene	mg/Kg			44.5											0.28	0.13			<0.012	
Benzo[k]fluoranthene	mg/Kg			11.5	<u>211</u>									0.49	0.32	0.14			<0.011	
Chrysene	mg/Kg	8270D	0.1442	115	<u>2110</u>									1.1	0.84	0.45			<0.0097	
Dibenz(a,h)anthracene	mg/Kg	8270D		0.115	<u>2</u>									0.13	0.097	0.053			<0.0069	
Fluoranthene	mg/Kg	8270D	88.8778	2390	<u>30,100</u>									2.2	2.2	0.55			<0.0066	
Fluorene	mg/Kg	8270D	14.8299	2390	30,100									0.083	0.48	0.031 J			< 0.0050	
Indeno[1,2,3-cd]pyrene	mg/Kg	8270D		1.15	21.1									0.37	0.27	0.12			< 0.0093	
Naphthalene	mg/Kg	8270D	0.6582	5.52	24.1									0.064	2.1	0.67			<0.0055	
Phenanthrene	mg/Kg													1.4	2.4	0.67			<0.0050	
				_		+												1		
Pyrene	mg/Kg	8270D	54.5455	1790	<u>22,600</u>									2.1	1.8	0.5			0.011 J	
Polychlorinated Biphenyls (PCBs)	1 ".	1 00000	1 0000	1	1							1						1	ı	
PCB-1016	mg/Kg	8082A	0.0094***	4.11	<u>28</u>										<0.0063		<0.0062	<0.0063		
PCB-1221	mg/Kg	8082A	0.0094***	0	<u>0.883</u>										<0.0078		<0.0078	<0.0078		
PCB-1232	mg/Kg	8082A	0.0094***	0.19	0.792										<0.0078		<0.0077	<0.0078		
PCB-1242	mg/Kg	8082A	0.0094***	0.235	0.972										<0.0059		<0.0058	<0.0058		
PCB-1248		8082A		0.236	0.975										<0.0070		<0.0070	<0.0070		
PCB-1254		8082A		0.239	1										0.13		<0.0038	0.11		
PCB-1260				0.243	<u> </u>									<del>                                     </del>			<0.0036	<0087		<del> </del>
	IIIg/Kg	8082A	0.0094***	0.243	1 1										<0.0088		\U.UU01	\0001		
RCRA Metals	1 ".	1 00:00	1 0-01	1	T -	1						ı						1		
Arsenic		6010B	0.584	0.677	3	8.3								5.8	6.2	<u>18</u>	1.8	<u>16</u>	7.9	
Barium		6010B		15,300	<u>100,000</u>	364								69	34	53	15	42	23	
Cadmium	mg/Kg	6010B	0.752	71.1	<u>985</u>	1								0.41 B	0.38 B	<0.21	0.22 B	0.82 B	0.57 B	
Chromium		6010B				44								17	15	35	5.5	14	12	
Copper		6010B		3130	46,700	35									_					
Lead		6010B		400	800	51.6								140	22	56	6.9	53	9.5	
					<del>+</del> -	+														<del> </del>
Mercury		6010B		3.13	3.13									0.066	0.091	0.07	<0.0058	0.05	0.0078 J	
Nickel	mg/Kg			1550	<u>22,500</u>	31														
Selenium		6010B		391	<u>5840</u>									<0.65	<0.58	<0.67	<0.54	<0.56	<0.56	
Silver	mg/Kg	6010B	0.8491	391	<u>5840</u>									0.28 J	0.18 J	0.72	<0.12	0.22 J	0.21 J	
Zinc		6010B		23,500	100,000	150														
L	19,9		<u> </u>	. ,								I				1			I.	



# SOIL QUALITY TEST RESULTS

# COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

# MILWAUKEE, WI

4,4'-DDE         mg/Kg         8081A          2         9.38              0.0013 J         0.003 J           0.0013 J         0.003 J           0.0013 J         0.003 J   <	.5.5 1-2 LAY Gravelly CLAY rated Unsaturated 020 6/25/2020
Depth (feet)   Depth (feet)   Depth (feet)   Soil Type   Soil Ty	LAY Gravelly CLAY rated Unsaturated 020 6/25/2020
Soil Conditions   Profection (1)   Pro	rated Unsaturated 020 6/25/2020
Frotection (1)   Contact   Protection (1)   Protection	020 6/25/2020
Variable   Variable	
4,4'-DDD       mg/Kg       8081A        1.9       9.57	
4,4*-DDE         mg/Kg         8081A          2         9,38 <th< td=""><td></td></th<>	
4,4'-DDT         mg/Kg         8081A	
Aldrin mg/Kg 8081A 0.04 0.187	
alpha-BHC         mg/Kg         8081A          0.086         0.365	
cis-Chlordane mg/Kg 8081A	
beta-BHC         mg/Kg         8081A          0.301         1.28	
delta-BHC mg/Kg 8081A	
Dieldrin mo/Kg 8081A 0.034 0.144	
Endosulfan l mg/Kg 8081A <b>469 7010</b>	
Endosulfan II mg/Kg 8081A	
Endosulfan sulfate mg/Kg 8081A	
Endrin mg/Kg 8081A 0.1616 <b>19 246</b>	
Endrin aldehyde mg/Kg 8081A 0.1616 19 246	
Endrin ketone mg/Kg 8081A	
gamma-BHC (Lindane) mg/Kg 8081A 0.0023 0.568 2.54	
trans-Chlordane mg/Kg 8081A	
Heptachlor mg/Kg 8081A 0.0662 <b>0.14</b> <u>0.654</u>	
Heptachlor epoxide mg/Kg 8081A 0.082 0.072 0.338	
Methoxychlor mg/Kg 8081A 4.32 <b>316 4100</b>	
Toxaphene mg/Kg 8081A 0.928 0.493 2.09	
Herbicides	
2,4,5-T mg/Kg 8151A <b>632 8210</b>	
2,4-D mg/Kg 8151A 0.0362 <b>699 9640</b>	
2,4-DB mg/Kg 8151A 1900 <u>24.600</u>	
Dicamba   mg/Kg   8151A   0.1553   1900   24.600	
Dichlorprop mg/Kg 8151A	
Silvex (2,4,5-TP) mg/Kg 8151A 0.055 506 6.570	



#### **SOIL QUALITY TEST RESULTS**

# **COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK**

# MILWAUKEE, WI

#### **PROJECT NUMBER: 40441**

										OT NOWIDER.										
Sample				NR 720 RCLs -	NR 720 RCLs -		EB-RTS-1	EB-RTS-2	EB-RTS-3	EB-RTS-4	EB-RTS-5	EB-RTS-6	EB-RTS-7	B-7	B-8	B-9	B-10	B-11	B-12	B-16
Depth (feet)			NR 720 RCLs	Non-Industrial		D. J	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	3-5	9-11	4-6	3-4	2-3	3.5-5.5	1-2
Soil Type	Units	Method	for GW	Use for Direct	for Direct	Background Threshold Value	Silty CLAY	F. Sandy CLAY	Gravelly CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Sandy CLAY	SAND & GRAVEL	Silty CLAY	Sandy CLAY	FILL	FILL	Silty CLAY	Gravelly CLAY
Soil Conditions			Protection (1)	Contact	Contact	Tillesiloid value	Moist	Moist	Moist	Moist	Moist	Moist	Unsaturated	Unstaturated	Unstaturated	Unstaturated	Unstaturated	Unstaturated	Unstaturated	Unsaturated
Sampling Date				Protection (1)	Protection (1)		4/6/2021	4/6/2021	4/6/2021	4/6/2021	4/6/2021	4/6/2021	4/6/2021	4/10/2020	4/10/2020	4/10/2020	4/23/2020	4/23/2020	4/10/2020	6/25/2020
Method 537 (modified) - Fluorinated Alkyl Substances																				
Perfluorobutanoic acid (PFBA)	ug/Kg	537												_						0.16 J B
Perfluoropentanoic acid (PFPeA)	ug/Kg	537												_						<0.00094
Perfluorohexanoic acid (PFHxA)	ug/Kg	537												-						<0.051
Perfluoroheptanoic acid (PFHpA)	ug/Kg	537												-						< 0.035
Perfluorooctanoic acid (PFOA)	ug/Kg	537		1260	<u>16,400</u>															<0.10
Perfluorononanoic acid (PFNA)	ug/Kg	537																		<0.044
Perfluorodecanoic acid (PFDA)	ug/Kg	537												-						<0.027
Perfluoroundecanoic acid (PFUnA)	ug/Kg	537																		<0.044
Perfluorododecanoic acid (PFDoA)	ug/Kg	537														-				<0.082
Perfluorotridecanoic acid (PFTriA)	ug/Kg	537																		<0.062
Perfluorotetradecanoic acid (PFTeA)	ug/Kg	537																		<0.066
Perfluoro-n-hexadecanoic acid (PFHxDA)	ug/Kg	537														-				<0.054
Perfluoro-n-octadecanoic acid (PFODA)	ug/Kg	537													-					<0.034
Perfluorobutanesulfonic acid (PFBS)	ug/Kg	537																		<0.031
Perfluoropentanesulfonic acid (PFPeS)	ug/Kg	537														-				<0.024
Perfluorohexanesulfonic acid (PFHxS)	ug/Kg	537													-					<0.038
Perfluoroheptanesulfonic Acid (PFHpS)	ug/Kg	537																		<0.043
Perfluorooctanesulfonic acid (PFOS)	ug/Kg	537		1260	<u>16,400</u>															0.51 J B
Perfluorononanesulfonic acid (PFNS)	ug/Kg	537																		<0.024
Perfluorodecanesulfonic acid (PFDS)	ug/Kg	537																		<0.048
Perfluorododecanesulfonic acid (PFDoS)	ug/Kg	537																		<0.073
Perfluorooctanesulfonamide (FOSA)	ug/Kg	537																		<0.10
NEtFOSA	ug/Kg	537																		<0.029
NMeFOSA	ug/Kg	537																		<0.050
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ug/Kg	537																		<0.48
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ug/Kg	537																		<0.45
NMeFOSE	ug/Kg	537																		<0.087
NEtFOSE	ug/Kg	537																		<0.044
4:2 FTS	ug/Kg	537																		<0.45
6:2 FTS	ug/Kg	537																		<0.18
8:2 FTS	ug/Kg	537																		<0.31
10:2 FTS	ug/Kg	537																		<0.061
DONA	ug/Kg	537																		<0.022
HFPO-DA (GenX)	ug/Kg	537																		<0.13
F-53B Major	ug/Kg	537																		<0.033
F-53B Minor	ug/Kg	537																		<0.027

(1) From WDNR RCLs Worksheet dated December 2018

Italicized values exceed Groundwater Protection, Non-Industrial Direct Contact, or Industrial Direct-Contact RCLs

BOLD values exceed Groundwater Protection, Non-Industrial Direct Contact, or Industrial Direct-Contact RCLs

BOLD Underlined values exceed Groundwater Protection, Non-Industrial Direct Contact, or Industrial Direct-Contact RCLs

--- = Not analyzed / No established standard

J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value

F1 = Matrix spike and/or matrix spike duplicate recovery exceeds control limits

F2 MS/MSD RPD exceeds control limits

V Serial Dilution exceeds the control limits

B = Compound was found in the blank and sample

\*+ = Laboratory conrol sample and/or laboratory control sample duplicate is outside acceptance limits, high biased

\* = Laboratory control sample and/or laboratory control sample duplicate is outside acceptance limits

\*\* = Combined established standard of 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene

\*\*\* = Combined established standard for NR 720 RCLs for groundwater protection



# COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

							PROJE	CT NUMBER: 4	0441							
Sample				NR 720 RCLs -	NR 720 RCLs -	SS-1	SS-6	SS-16	SS-17	SS-19	SS-26	SS-28	SS-32	SS-38	SS-48	SS-51
Depth (feet)			NR 720 RCLs	Non-Industrial	Industrial Use	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
Soil Type	Units	Method	for GW	Use for Direct	for Direct	Silty CLAY	SAND & GRAVEL	SAND & GRAVEL	Gravelly SAND	Sandy GRAVEL	SAND & GRAVEL	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Gravelly SAND
Soil Conditions			Protection (1)	Contact	Contact	Unsaturated	Saturated	Saturated	Unsaturated	Unsaturated	Moist	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date				Protection (1)	Protection (1)	3/9/2021	3/9/2021	3/9/2021	3/9/2021	3/9/2021	3/9/2021	2/24/2021	3/3/2021	2/24/2021	2/24/2021	3/9/2021
Physical Characteristics																
Percent Moisture						20.4	16.0	27.1	14.0	5.7	10.7	15.2	10.2	15.6	14.1	5.8
Percent Solids						79.6	84.0	72.9	86.0	94.3	89.3	84.8	89.8	84.4	85.9	94.2
Volatile Organic Compounds (VOCs)							1					<u> </u>	1 24.4	¥ 11 .		
1,1,1,2-Tetrachloroethane	mg/Kg	8260B	0.0534	2.78	12.3	< 0.035	<0.032	<0.041	<0.030	<0.033	<0.028	<0.055	<0.028	<0.056	<0.19	<0.026
1,1,1-Trichloroethane	mg/Kg	8260B	0.1402	640	640	0.13	<0.026	<0.033	0.11	<0.027	<0.023	<0.045	<0.023	<0.046	<0.15	<0.021
1.1.2.2-Tetrachloroethane	mg/Kg	8260B	0.0002	0.81	3.6	<0.030	<0.028	<0.035	<0.026	<0.029	<0.024	<0.048	<0.024	<0.048	<0.16	<0.022
1,1,2-Trichloroethane	mg/Kg	8260B	0.0032	1.59	7.01	<0.026	<0.025	<0.031	<0.023	<0.025	<0.021	<0.042	<0.021	<0.043	<0.14	<0.020
1,1-Dichloroethane	mg/Kg	8260B	0.4834	5.06	22.2	0.13	<0.029	<0.036	<0.027	<0.030	<0.025	<0.049	<0.025	<0.050	<0.17	<0.023
1,1-Dichloroethene	mg/Kg	8260B	0.005	320	1,190	<0.029	<0.027	<0.034	<0.026	<0.028	<0.024	<0.047	<0.024	<0.047	<0.16	<0.022
1,1-Dichloropropene	mg/Kg	8260B				<0.022	<0.021	<0.026	<0.020	<0.022	<0.018	<0.036	<0.018	<0.036	<0.12	<0.017
1,2,3-Trichlorobenzene	mg/Kg	8260B		62.6	934	<0.034	<0.032	<0.040	<0.030	<0.033	<0.028	<0.055	<0.028	<0.055	<0.19	<0.026
1,2,3-Trichloropropane	mg/Kg	8260B	0.0519	0.005	0.109	<0.031	<0.029	<0.036	<0.027	<0.030	<0.025	<0.049	<0.025	<0.050	<0.17	<0.023
1,2,4-Trichlorobenzene	mg/Kg	8260B	0.408	24	113	<0.026	<0.024	<0.030	<0.022	<0.025	<0.021	<0.041	<0.021	<0.041	<0.14	<0.019
1,2,4-Trimethylbenzene	mg/Kg	8260B	1.3787**	219	219	9	<0.025	<0.031	<0.024	0.063 J	0.072	0.11 J B	<0.022	<0.043	1.1 B	<0.020
1,2-Dibromo-3-Chloropropane	mg/Kg	8260B	0.0002	0.008	0.092	<0.15	<0.14	<0.17	<0.13	<0.14	<0.12	<0.24	<0.12	<0.24	<0.81	<0.11
1,2-Dibromoethane	mg/Kg	8260B	0.00002	0.05	0.221	<0.029	<0.027	<0.034	<0.025	<0.028	<0.023	<0.046	<0.023	<0.047	<0.16	<0.022
1.2-Dichlorobenzene	mg/Kg	8260B	1.168	376	376	<0.025	<0.023	<0.029	<0.022	<0.024	<0.020	<0.040	<0.020	<0.040	<0.14	<0.019
1,2-Dichloroethane	mg/Kg	8260B	0.0028	0.652	2.87	<0.030	<0.027	<0.034	<0.026	<0.024	<0.024	<0.047	<0.024	<0.047	<0.16	<0.022
1,2-Dichloropropane	mg/Kg	8260B	0.0020	3.4	15	<0.032	<0.030	<0.038	<0.028	<0.031	<0.024	<0.051	<0.024	<0.052	<0.17	<0.024
1,3,5-Trimethylbenzene	mg/Kg	8260B	1.3787**	182	182	0.13	<0.026	<0.033	<0.025	<0.027	<0.023	<0.045	<0.023	<0.046	0.17 J	<0.021
1,3-Dichlorobenzene	mg/Kg	8260B	1.1528	297	297	<0.030	<0.028	<0.035	<0.026	<0.029	<0.024	<0.048	<0.024	<0.048	<0.16	<0.021
1,3-Dichloropropane	mg/Kg	8260B	0.0003	2.37	10.6	<0.027	<0.025	<0.032	<0.024	<0.026	<0.022	<0.043	<0.024	<0.044	<0.15	<0.022
1.4-Dichlorobenzene	mg/Kg	8260B	0.144	3.74	16.4	<0.027	<0.025	<0.032	<0.024	<0.026	<0.022	<0.043	<0.022	<0.044	<0.15	<0.020
2,2-Dichloropropane	mg/Kg	8260B		191	191	<0.033	<0.031	<0.039	<0.029	<0.032	<0.027	<0.053	<0.027	<0.054	<0.18	<0.025
2-Chlorotoluene	mg/Kg	8260B		907	907	<0.024	<0.022	<0.028	<0.021	<0.023	<0.019	<0.037	<0.019	<0.038	<0.13	<0.018
4-Chlorotoluene	mg/Kg	8260B		253	253	<0.026	<0.024	<0.031	<0.023	<0.025	<0.021	<0.042	<0.021	<0.042	<0.14	<0.020
Benzene	mg/Kg	8260B	0.0051	1.6	7.07	0.28	0.011 J	<0.013	<0.0096	<0.011	<0.0089	<0.017	<0.0088	<0.018	0.39	<0.0082
Bromobenzene	mg/Kg	8260B		342	679	<0.027	<0.025	<0.031	<0.023	<0.026	<0.022	<0.043	<0.022	<0.043	<0.14	<0.020
Bromochloromethane	mg/Kg	8260B		216	906	<0.032	<0.030	<0.038	<0.028	<0.031	<0.026	<0.051	<0.026	<0.052	<0.17	<0.024
Bromodichloromethane	mg/Kg	8260B	0.0003	0.418	1.83	<0.028	<0.026	<0.033	<0.024	<0.027	<0.023	<0.044	<0.022	<0.045	<0.15	<0.021
Bromoform	mg/Kg	8260B	0.0023	25.4	113	<0.036	<0.034	<0.043	<0.032	<0.035	<0.029	<0.058	<0.029	<0.059	<0.20	<0.027
Bromomethane	mg/Kg	8260B	0.0051	9.6	43	<0.060	<0.056	<0.070	<0.052	<0.057	<0.048	<0.095	<0.048	<0.096	<0.32	<0.045
Carbon tetrachloride	mg/Kg	8260B	0.0039	0.916	4.03	<0.029	<0.027	<0.034	<0.025	<0.028	<0.023	<0.046	<0.023	<0.046	<0.16	<0.022
Chlorobenzene	mg/Kg	8260B		370	761	<0.029	<0.027	<0.034	<0.025	<0.028	<0.023	<0.046	< 0.023	<0.047	<0.16	<0.022
Chloroethane	mg/Kg	8260B	0.2266	2,120	2,120	<0.038	< 0.035	<0.044	<0.033	< 0.036	<0.031	<0.060	< 0.030	<0.061	<0.20	<0.028
Chloroform	mg/Kg	8260B	0.0033	0.454	1.98	<0.028	<0.026	<0.033	<0.024	<0.027	<0.023	<0.044	<0.022	<0.045	<0.15	<0.021
Chloromethane	mg/Kg	8260B	0.0155	159	669	<0.024	<0.022	<0.028	<0.021	<0.023	<0.019	<0.038	< 0.019	<0.039	<0.13	<0.018
cis-1,2-Dichloroethene	mg/Kg	8260B	0.0412	156	2,340	0.88	0.14	<0.036	<0.027	<0.029	<0.025	<0.049	<0.025	<0.049	<0.17	<0.023
cis-1,3-Dichloropropene	mg/Kg	8260B	0.0003	1,210	1,210	<0.031	<0.029	<0.037	<0.027	< 0.030	<0.025	< 0.050	<0.025	<0.050	<0.17	<0.023
Dibromochloromethane	mg/Kg	8260B	0.032	8.28	38.9	<0.037	<0.034	<0.043	<0.032	< 0.035	<0.030	<0.058	< 0.029	<0.059	<0.20	<0.027
Dibromomethane	mg/Kg	8260B		34	143	<0.020	<0.019	<0.024	<0.018	< 0.019	<0.016	<0.032	<0.016	<0.033	<0.11	<0.015
Dichlorodifluoromethane	mg/Kg	8260B	3.0863	126	<u>530</u>	<0.051	<0.047	< 0.059	<0.044	<0.049	<0.041	<0.080	<0.041	<0.081	<0.27	<0.038
Ethylbenzene	mg/Kg	8260B	1.57	8.02	<u>35.4</u>	0.74	<0.013	<0.016	<0.012	<0.013	<0.011	<0.022	<0.011	<0.022	0.10	<0.010
Hexachlorobutadiene	mg/Kg	8260B		1.63	7.19	<0.034	<0.031	<0.039	<0.029	<0.032	<0.027	<0.053	<0.027	<0.054	<0.18	<0.025
Isopropyl ether	mg/Kg	8260B	-	2,260	<u>2,260</u>	<0.021	<0.019	<0.024	<0.018	<0.020	<0.017	<0.033	<0.017	<0.033	<0.11	<0.015
Isopropylbenzene	mg/Kg	8260B		268	<u>268</u>	0.54	<0.027	<0.034	<0.025	<0.028	<0.023	<0.046	<0.023	<0.046	0.16 J	<0.022
Methyl tert-butyl ether	mg/Kg	8260B	0.027	63.8	282	<0.030	<0.027	<0.035	<0.026	<0.028	<0.024	<0.047	<0.024	<0.048	<0.16	<0.022
Methylene Chloride	mg/Kg	8260B	0.0026	61.8	<u>1,150</u>	<0.12	<0.11	<0.14	<0.11	<0.12	<0.099	<0.19	<0.098	<0.20	<0.66	<0.091
Naphthalene	mg/Kg	8260B	0.658182	5.52	24.10	1.2	0.028 J	<0.029	0.12	0.13	0.14	0.11 J	<0.020	0.048 J	0.17 J	<0.019
n-Butylbenzene	mg/Kg	8260B		108	108	3.7	<0.027	<0.034	<0.025	<0.028	<0.024	<0.046	<0.023	<0.047	<0.16	<0.022
N-Propylbenzene	mg/Kg	8260B		264	264	1.2	<0.029	<0.036	<0.027	< 0.030	<0.025	<0.049	<0.025	<0.050	<0.17	<0.023
p-Isopropyltoluene	mg/Kg	8260B		162	<u>162</u>	0.91	<0.025	<0.032	<0.024	<0.026	<0.022	<0.043	<0.022	<0.044	<0.15	<0.020
sec-Butylbenzene	mg/Kg	8260B		145	<u>145</u>	1.9	<0.028	<0.035	<0.026	<0.029	<0.024	<0.048	<0.024	<0.048	<0.16	<0.022
Styrene	mg/Kg	8260B	0.22	867	867	<0.029	<0.027	<0.034	<0.025	<0.028	0.12	<0.046	<0.023	<0.047	92	<0.022
tert-Butylbenzene	mg/Kg	8260B	1	183	<u>183</u>	0.2	<0.028	<0.035	<0.026	<0.029	<0.024	<0.048	<0.024	<0.048	<0.16	<0.022
Tetrachloroethene	mg/Kg	8260B	0.0045	33	145	<0.028	<0.026	<0.033	<0.024	<0.027	0.09	<0.044	<0.022	<0.045	<0.15	<0.021
Toluene	mg/Kg	8260B	1.1072	818	818	0.14	0.04	<0.013	0.015 J	0.049	0.039	<0.018	<0.0089	<0.018	0.11	<0.0082
trans-1,2-Dichloroethene	mg/Kg	8260B	0.0626	1560	1850	<0.026	<0.024	<0.031	<0.023	<0.025	<0.021	<0.042	<0.021	<0.042	<0.14	<0.020
trans-1,3-Dichloropropene	mg/Kg	8260B		1,510	1,510	<0.027	<0.025	<0.032	<0.024	<0.026	<0.022	<0.043	<0.022	<0.044	<0.15	<0.020
Trichloroethene	mg/Kg	8260B	0.0036	1.3	8.41	<0.012	0.086	<0.014	0.13	0.11	7.3	<0.020	0.093	<0.020	<0.066	0.025 J
Trichlorofluoromethane	mg/Kg	8260B		1,230	1,230	<0.032	<0.030	<0.038	<0.028	<0.031	<0.026	<0.051	<0.026	<0.052	<0.17	<0.024
Vinyl chloride	mg/Kg	8260B	0.0001	0.067	2.08	0.23	<0.018	<0.023	<0.017	<0.019	<0.016	<0.031	<0.016	<0.032	<0.11	<0.015
Xylenes, Total	mg/Kg	8260B	3.96	1,212	<u>1212</u>	0.34	0.033 J	<0.019	0.04	0.15	0.15	<0.026	<0.013	<0.027	0.42	<0.012
. , ,	gg		00	.,	<u> </u>	J	0.0000	0.010	0.01	1 0.10	0.10	V.VLV	2.010	U.U.I.	J. 12	



# COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

# MILWAUKEE, WI

								ST NUMBER: 4								
Sample				NR 720 RCLs -	NR 720 RCLs -	SS-1	SS-6	SS-16	SS-17	SS-19	SS-26	SS-28	SS-32	SS-38	SS-48	SS-51
Depth (feet)	1		NR 720 RCLs	Non-Industrial	Industrial Use	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
Soil Type	Units	Method	for GW	Use for Direct	for Direct	Silty CLAY	SAND & GRAVEL	SAND & GRAVEL	Gravelly SAND	Sandy GRAVEL	SAND & GRAVEL	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Gravelly SAND
Soil Conditions			Protection (1)	Contact	Contact	Unsaturated	Saturated	Saturated	Unsaturated	Unsaturated	Moist	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date				Protection (1)	Protection (1)	3/9/2021	3/9/2021	3/9/2021	3/9/2021	3/9/2021	3/9/2021	2/24/2021	3/3/2021	2/24/2021	2/24/2021	3/9/2021
Method 8260B - Volatile Organic Compoounds - TCLP																
1,1-Dichloroethene	mg/L	8260B														
1,2-Dichloroethane	mg/L	8260B														
Benzene	mg/L	8260B														
Carbon tetrachloride	mg/L	8260B														
Chlorobenzene	mg/L	8260B														
Chloroform	mg/L	8260B														
Methyl Ethyl Ketone	mg/L	8260B														
Tetrachloroethene	mg/L	8260B														
Trichloroethene	mg/L	8260B														
Vinyl Chloride	mg/L	8260B														
Semivolatile Organic Compounds (SVOCs)	IIIg/L	0200D														
1,2,4-Trichlorobenzene	malka	8270D	0.408	24	113		I							I		
	mg/Kg	8270D	1.168	376						1	-					
1,2-Dichlorobenzene	mg/Kg				376 207											
1,3-Dichlorobenzene	mg/Kg	8270D	1.1528	297	2 <u>97</u>											
1,4-Dichlorobenzene	mg/Kg	8270D	0.144	3.74	16.4											
1-Methylnaphthalene	mg/Kg	8270D		17.6	<u>72.7</u>											
2,2'-oxybis[1-chloropropane]	mg/Kg	8270D														
2,4,5-Trichlorophenol	mg/Kg	8270D		6320	<u>82,100</u>											
2,4,6-Trichlorophenol	mg/Kg	8270D		49.3	209											
2,4-Dichlorophenol	mg/Kg	8270D		190	<u>2460</u>											
2,4-Dimethylphenol	mg/Kg	8270D		1260	<u>16,400</u>											
2,4-Dinitrophenol	mg/Kg	8270D		126	<u>1640</u>											
2,4-Dinitrotoluene	mg/Kg	8270D	0.0001	1.74	<u>7.37</u>											
2,6-Dinitrotoluene	mg/Kg	8270D	0.0001	0.363	<u>1.54</u>											
2-Chloronaphthalene	mg/Kg	8270D		4780	<u>60,300</u>											
2-Chlorophenol	mg/Kg	8270D		391	<u>5,840</u>											
2-Methylnaphthalene	mg/Kg	8270D		239	<u>3010</u>											
2-Methylphenol	mg/Kg	8270D		3160	41,000									-		
2-Nitroaniline	mg/Kg	8270D		627	8010											
2-Nitrophenol	mg/Kg	8270D														
3 & 4 Methylphenol	mg/Kg	8270D		9480**	123,100**											
3,3'-Dichlorobenzidine	mg/Kg	8270D														
3-Nitroaniline	mg/Kg	8270D														
4,6-Dinitro-2-methylphenol	mg/Kg	8270D														
4-Bromophenyl phenyl ether	mg/Kg	8270D														
4-Chloro-3-methylphenol	mg/Kg	8270D		6320	82,100											
4-Chloroaniline	mg/Kg	8270D		2.71	11.5											
4-Chlorophenyl phenyl ether	mg/Kg	8270D														
4-Nitroaniline	mg/Kg	8270D		27.1	115											
4-Nitrophenol	mg/Kg	8270D														
Acenaphthene	mg/Kg	8270D		3590	45,200											
Acenaphthylene	mg/Kg	8270D		3390	73,200		<del></del>			<del></del>						<del></del>
Anthracene		8270D	196.9492	17,900	100,000	<del></del>	<del>-</del>			<del></del>						<del></del>
	mg/Kg	8270D 8270D	1	17,900												
Benzo[a]anthracene	mg/Kg		0.47		<u>21</u>											
Benzo[a]pyrene	mg/Kg	8270D	0.47	0.115	2.11											
Benzo[b]fluoranthene	mg/Kg	8270D	0.4781	1.15	<u>21.1</u>											
Benzo[g,h,i]perylene	mg/Kg	8270D												-		
Benzo[k]fluoranthene	mg/Kg	8270D		11.5	<u>211</u>											
Benzoic acid	mg/Kg	8270D		100,000	100,000											
Benzyl alcohol	mg/Kg	8270D		6320	<u>82,100</u>											
Bis(2-chloroethoxy)methane	mg/Kg	8270D		190	<u>2460</u>											
Bis(2-chloroethyl)ether	mg/Kg	8270D		0.286	<u>1.29</u>											
Bis(2-ethylhexyl) phthalate	mg/Kg	8270D	2.88	38.8	<u>164</u>									-		
Butyl benzyl phthalate	mg/Kg	8270D		286	<u>1210</u>											
Carbazole	mg/Kg	8270D														
Chrysene	mg/Kg	8270D	0.1442	115	2110											
Dibenz(a,h)anthracene	mg/Kg	8270D		0.115	2											
Dibenzofuran	mg/Kg	8270D		73	1040											
2.00	9/13	02100	1		1.770		1	l .		1	I			I	<u> </u>	I.



# COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

# MILWAUKEE, WI

10						1 00.4	1 00 0	00.40	00.47	00.40	00.00	00.00	00.00	00.00	00.40	00.54
Sample Don'th (fact)				NR 720 RCLs -	NR 720 RCLs -	<b>SS-1</b> 0-1	SS-6 0-1	<b>SS-16</b> 0-1	<b>SS-17</b> 0-1	<b>SS-19</b> 0-1	<b>SS-26</b> 0-1	SS-28 0-1	<b>SS-32</b> 0-1	<b>SS-38</b> 0-1	<b>SS-48</b> 0-1	<b>SS-51</b> 0-1
Depth (feet)	I India	Mathad	NR 720 RCLs	Non-Industrial	Industrial Use		SAND & GRAVEL	SAND & GRAVEL	Gravelly SAND	Sandy GRAVEL	SAND & GRAVEL	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	
Soil Type	Units	Method	for GW Protection (1)	Use for Direct Contact	for Direct Contact	Silty CLAY				<u> </u>			<u> </u>	· · · · · · · · · · · · · · · · · · ·		Gravelly SAND
Soil Conditions			Fiotection (1)	Protection (1)	Protection (1)	Unsaturated	Saturated	Saturated	Unsaturated	Unsaturated	Moist	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date	0.4	00700		, ,	` '	3/9/2021	3/9/2021	3/9/2021	3/9/2021	3/9/2021	3/9/2021	2/24/2021	3/3/2021	2/24/2021	2/24/2021	3/9/2021
Diethyl phthalate	mg/Kg	8270D		50,600	<u>100,000</u>											
Dimethyl phthalate	mg/Kg	8270D														
Di-n-butyl phthalate	mg/Kg	8270D	5.0333	6320	<u>82,100</u>											
Di-n-octyl phthalate	mg/Kg	8270D	0	632	<u>8210</u>											
Fluoranthene	mg/Kg	8270D	88.8778	2390	<u>30,100</u>											
Fluorene	mg/Kg	8270D	14.8299	2390	<u>30,100</u>											
Hexachlorobenzene	mg/Kg	8270D	0.0252	0.252	<u>1.15</u>											
Hexachlorobutadiene	mg/Kg	8270D		1.63	<u>7.19</u>											
Hexachlorocyclopentadiene	mg/Kg	8270D		2.55	<u>10.8</u>											
Hexachloroethane	mg/Kg	8270D		2.52	<u>11.1</u>											
Indeno[1,2,3-cd]pyrene	mg/Kg	8270D		1.15	<u>21.1</u>											
Isophorone	mg/Kg	8270D		571	<u>2420</u>											
Naphthalene	mg/Kg	8270D	0.6582	5.52	<u>24.1</u>											
Nitrobenzene	mg/Kg	8270D														
N-Nitrosodi-n-propylamine	mg/Kg	8270D		0.078	0.328											
N-Nitrosodiphenylamine	mg/Kg	8270D	0.0764	111	<u>469</u>											
Pentachlorophenol	mg/Kg	8270D	0.0028	1.02	<u>3.97</u>											
Phenanthrene	mg/Kg	8270D														
Phenol	mg/Kg	8270D	2.2946	19,000	<u>100,000</u>											
Pyrene	mg/Kg	8270D	54.5455	1790	22,600											
Polycyclic Aromatic Hydrocarbons (PAHs)							1	1						1	1	
1-Methylnaphthalene	mg/Kg	8270D		17.6	<u>72.7</u>											
2-Methylnaphthalene	mg/Kg	8270D		239	<u>3010</u>											
Acenaphthene	mg/Kg	8270D		3590	<u>45,200</u>											
Acenaphthylene	mg/Kg	8270D														
Anthracene	mg/Kg	8270D	196.9492	17,900	<u>100,000</u>											
Benzo[a]anthracene	mg/Kg	8270D		1.14	<u>21</u>											
Benzo[a]pyrene	mg/Kg	8270D	0.47	0.115	<u>2.11</u>											
Benzo[b]fluoranthene	mg/Kg	8270D	0.4781	1.15	<u>21.1</u>											
Benzo[g,h,i]perylene	mg/Kg	8270D														
Benzo[k]fluoranthene	mg/Kg	8270D		11.5	<u>211</u>											
Chrysene	mg/Kg	8270D	0.1442	115	<u>2110</u>											
Dibenz(a,h)anthracene	mg/Kg	8270D		0.115	<u>2</u>											
Fluoranthene	mg/Kg	8270D	88.8778	2390	<u>30,100</u>											
Fluorene	mg/Kg	8270D	14.8299	2390	<u>30,100</u>											
Indeno[1,2,3-cd]pyrene	mg/Kg	8270D		1.15	<u>21.1</u>											
Naphthalene	mg/Kg	8270D	0.6582	5.52	<u>24.1</u>											
Phenanthrene	mg/Kg	8270D							ı							
Pyrene	mg/Kg	8270D	54.5455	1790	<u>22,600</u>				1							
Polychlorinated Biphenyls (PCBs)																
PCB-1016	mg/Kg	8082A	0.0094***	4.11	<u>28</u>				-							
PCB-1221	mg/Kg	8082A	0.0094***	0	0.883											
PCB-1232	mg/Kg	8082A	0.0094***	0.19	<u>0.792</u>											
PCB-1242	mg/Kg	8082A	0.0094***	0.235	<u>0.972</u>				-							
PCB-1248	mg/Kg	8082A	0.0094***	0.236	<u>0.975</u>											
PCB-1254	mg/Kg	8082A	0.0094***	0.239	<u>1</u>			-	-							
PCB-1260	mg/Kg	8082A	0.0094***	0.243	1				-							
RCRA Metals																
Arsenic	mg/Kg	6010B	0.584	0.677	3											
Barium	mg/Kg	6010B	164.8	15,300	100,000											
Cadmium	mg/Kg	6010B	0.752	71.1	985				-							
Chromium	mg/Kg	6010B	360,000*						-							
Copper	mg/Kg	6010B	91.6	3130	46,700				_							
Lead	mg/Kg	6010B	27	400	800											
Mercury	mg/Kg	6010B	0.208	3.13	3.13											
Nickel	mg/Kg	6010B	13.0612	1550	22,500											
Selenium	mg/Kg	6010B	0.52	391	5840											
Silver	mg/Kg	6010B	0.8491	391	5840											
Zinc	mg/Kg	6010B		23,500	100,000	<b>†</b>		+								
LIIIO	my/Ny	UUTUD		20,000	100,000								_ <del></del>	1		



# SOIL QUALITY TEST RESULTS

# COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

# MILWAUKEE, WI

							1 11002	OT NONIDEN. 4	V-1-1-1							
Sample				NR 720 RCLs -	NR 720 RCLs -	SS-1	SS-6	SS-16	SS-17	SS-19	SS-26	SS-28	SS-32	SS-38	SS-48	SS-51
Depth (feet)			NR 720 RCLs	Non-Industrial	Industrial Use	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
Soil Type	Units	Method	for GW	Use for Direct	for Direct	Silty CLAY	SAND & GRAVEL	SAND & GRAVEL	Gravelly SAND	Sandy GRAVEL	SAND & GRAVEL	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Gravelly SAND
Soil Conditions			Protection (1)	Contact	Contact	Unsaturated	Saturated	Saturated	Unsaturated	Unsaturated	Moist	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date				Protection (1)	Protection (1)	3/9/2021	3/9/2021	3/9/2021	3/9/2021	3/9/2021	3/9/2021	2/24/2021	3/3/2021	2/24/2021	2/24/2021	3/9/2021
Oranochlorine Pesticides																
4,4'-DDD	mg/Kg	8081A		1.9	9.57											
4,4'-DDE	mg/Kg	8081A		2	9.38											
4,4'-DDT	mg/Kg	8081A		1.89	8.53											
Aldrin	mg/Kg	8081A		0.04	0.187			_					-	_		
alpha-BHC	mg/Kg	8081A		0.086	0.365			_								
cis-Chlordane	mg/Kg	8081A						_								
beta-BHC	mg/Kg	8081A		0.301	<u>1.28</u>											
delta-BHC	mg/Kg	8081A						_								
Dieldrin	mg/Kg	8081A		0.034	0.144											
Endosulfan I	mg/Kg	8081A		469	<u>7010</u>											
Endosulfan II	mg/Kg	8081A						_								
Endosulfan sulfate	mg/Kg	8081A														
Endrin	mg/Kg	8081A	0.1616	19	<u>246</u>											
Endrin aldehyde	mg/Kg	8081A	0.1616	19	<u>246</u>			_		_						
Endrin ketone	mg/Kg	8081A														
gamma-BHC (Lindane)	mg/Kg	8081A	0.0023	0.568	<u>2.54</u>											
trans-Chlordane	mg/Kg	8081A														
Heptachlor	mg/Kg	8081A	0.0662	0.14	0.654											
Heptachlor epoxide	mg/Kg	8081A	0.082	0.072	0.338											
Methoxychlor	mg/Kg	8081A	4.32	316	<u>4100</u>											
Toxaphene	mg/Kg	8081A	0.928	0.493	<u>2.09</u>											
Herbicides																
2,4,5-T	mg/Kg	8151A		632	<u>8210</u>											
2,4-D	mg/Kg	8151A	0.0362	699	<u>9640</u>											
2,4-DB	mg/Kg	8151A		1900	<u>24,600</u>											
Dicamba	mg/Kg	8151A	0.1553	1900	24,600											
Dichlorprop	mg/Kg	8151A						-								
Silvex (2,4,5-TP)	mg/Kg	8151A	0.055	506	6,570											
/							•		•	•			•	•		



#### SOIL QUALITY TEST RESULTS

#### **COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK**

# MILWAUKEE, WI

# PROJECT NUMBER: 40441

							INOUL	ST NUMBER. 4	ודדט							
Sample				NR 720 RCLs -	NR 720 RCLs -	SS-1	SS-6	SS-16	SS-17	SS-19	SS-26	SS-28	SS-32	SS-38	SS-48	SS-51
Depth (feet)			NR 720 RCLs	Non-Industrial	Industrial Use	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
Soil Type	Units	Method	for GW	Use for Direct	for Direct	Silty CLAY	SAND & GRAVEL	SAND & GRAVEL	Gravelly SAND	Sandy GRAVEL	SAND & GRAVEL	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Gravelly SAND
Soil Conditions			Protection (1)	Contact	Contact	Unsaturated	Saturated	Saturated	Unsaturated	Unsaturated	Moist	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date				Protection (1)	Protection (1)	3/9/2021	3/9/2021	3/9/2021	3/9/2021	3/9/2021	3/9/2021	2/24/2021	3/3/2021	2/24/2021	2/24/2021	3/9/2021
Method 537 (modified) - Fluorinated Alkyl Substances																
Perfluorobutanoic acid (PFBA)	ug/Kg	537														
Perfluoropentanoic acid (PFPeA)	ug/Kg	537														
Perfluorohexanoic acid (PFHxA)	ug/Kg	537														
Perfluoroheptanoic acid (PFHpA)	ug/Kg	537											-			
Perfluorooctanoic acid (PFOA)	ug/Kg	537		1260	16,400											
Perfluorononanoic acid (PFNA)	ug/Kg	537														
Perfluorodecanoic acid (PFDA)	ug/Kg	537														
Perfluoroundecanoic acid (PFUnA)	ug/Kg	537														
Perfluorododecanoic acid (PFDoA)	ug/Kg	537														
Perfluorotridecanoic acid (PFTriA)	ug/Kg	537														
Perfluorotetradecanoic acid (PFTeA)	ug/Kg	537														
Perfluoro-n-hexadecanoic acid (PFHxDA)	ug/Kg	537														
Perfluoro-n-octadecanoic acid (PFODA)	ug/Kg	537														
Perfluorobutanesulfonic acid (PFBS)	ug/Kg	537														
Perfluoropentanesulfonic acid (PFPeS)	ug/Kg	537											-			
Perfluorohexanesulfonic acid (PFHxS)	ug/Kg	537														
Perfluoroheptanesulfonic Acid (PFHpS)	ug/Kg	537														
Perfluorooctanesulfonic acid (PFOS)	ug/Kg	537		1260	<u>16,400</u>								-			
Perfluorononanesulfonic acid (PFNS)	ug/Kg	537														
Perfluorodecanesulfonic acid (PFDS)	ug/Kg	537														
Perfluorododecanesulfonic acid (PFDoS)	ug/Kg	537														
Perfluorooctanesulfonamide (FOSA)	ug/Kg	537														
NEtFOSA	ug/Kg	537														
NMeFOSA	ug/Kg	537														
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ug/Kg	537														
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ug/Kg	537														
NMeFOSE	ug/Kg	537														
NEtFOSE	ug/Kg	537														
4:2 FTS	ug/Kg	537											-			
6:2 FTS	ug/Kg	537														
8:2 FTS	ug/Kg	537														
10:2 FTS	ug/Kg	537														
DONA	ug/Kg	537														
HFPO-DA (GenX)	ug/Kg	537														
F-53B Major	ug/Kg	537														
F-53B Minor	ug/Kg	537														
	1 .0 0		1		1		1	<u> </u>					1		I	

(1) From WDNR RCLs Worksheet dated December 2018

Italicized values exceed Groundwater Protection, Non-Industrial Direct Contact, or Industrial Direct-Contact RCLs

BOLD values exceed Groundwater Protection, Non-Industrial Direct Contact, or Industrial Direct-Contact RCLs

<u>BOLD Underlined</u> values exceed Groundwater Protection, Non-Industrial Direct Contact, or Industrial Direct-Contact RCLs
--- = Not analyzed / No established standard

J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value

F1 = Matrix spike and/or matrix spike duplicate recovery exceeds control limits

F2 MS/MSD RPD exceeds control limits

V Serial Dilution exceeds the control limits

B = Compound was found in the blank and sample

\*+ = Laboratory conrol sample and/or laboratory control sample duplicate is outside acceptance limits, high biased

\* = Laboratory control sample and/or laboratory control sample duplicate is outside acceptance limits

\*\* = Combined established standard of 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene

\*\*\* = Combined established standard for NR 720 RCLs for groundwater protection



# COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

							PROJE	CT NUMBER: 4	V <del>44</del> I							
Sample				NR 720 RCLs -	NR 720 RCLs -	VE-1	VE-2	VE-3		-4	VE-5	VE-7	VE-8	EB-IB-1	EB-IB-2	EB-IB-3
Depth (feet)			NR 720 RCLs	Non-Industrial	Industrial Use	0-1	0-1	0-1	0-1	0.5-1.5	0-1	0-1	0-1	0.5-1.5	0.5-1.5	0.5-1.5
Soil Type	Units	Method	for GW	Use for Direct	for Direct	Sandy CLAY	Clayey SAND	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Sandy CLAY			
Soil Conditions			Protection (1)	Contact	Contact	Unsaturated	Unsaturated	Unsaturated	Unstaturated	Unsaturated	Unstaturated	Unstaturated	Unsaturated	Unsaturated	Moist	Unsaturated
Sampling Date				Protection (1)	Protection (1)	2/24/2021	2/24/2021	2/24/2021	2/24/2021	4/14/2021	2/24/2021	2/24/2021	2/24/2021	4/14/2021	4/14/2021	4/14/2021
Physical Characteristics																
Percent Moisture						15.5	22.9	17.9	8.8	NA	11.3	15.6	15.8	10.4	13.1	10.9
Percent Solids						84.5	77.1	82.1	91.2	NA	88.7	84.4	84.2	89.6	86.9	89.1
Volatile Organic Compounds (VOCs)													•			
1,1,1,2-Tetrachloroethane	mg/Kg	8260B	0.0534	2.78	12.3	<0.049	<0.089	<0.046	<0.048		<0.045	<0.046	< 0.059	<0.028	<0.030	<0.029
1,1,1-Trichloroethane	mg/Kg	8260B	0.1402	640	640	<0.040	2.0	<0.038	<0.040		< 0.037	<0.038	< 0.049	<0.023	<0.025	<0.024
1,1,2,2-Tetrachloroethane	mg/Kg	8260B	0.0002	0.81	3.6	<0.042	<0.077	<0.040	<0.041		< 0.039	<0.040	<0.051	<0.024	<0.026	<0.025
1,1,2-Trichloroethane	mg/Kg	8260B	0.0032	1.59	7.01	<0.037	<0.068	< 0.035	< 0.037		<0.034	< 0.035	< 0.045	<0.021	<0.023	<0.022
1,1-Dichloroethane	mg/Kg	8260B	0.4834	5.06	22.2	<0.043	<0.079	<0.041	<0.043		<0.040	<0.041	< 0.053	<0.025	<0.026	<0.025
1,1-Dichloroethene	mg/Kg	8260B	0.005	320	1,190	<0.041	<0.076	<0.039	<0.041		<0.038	<0.039	<0.050	<0.024	<0.025	<0.024
1,1-Dichloropropene	mg/Kg	8260B				<0.031	<0.058	<0.030	<0.031		<0.029	<0.030	<0.038	<0.018	<0.019	<0.019
1,2,3-Trichlorobenzene	mg/Kg	8260B		62.6	934	<0.048	<0.089	<0.046	<0.048		<0.044	<0.046	<0.059	<0.028	<0.030	<0.028
1,2,3-Trichloropropane	mg/Kg	8260B	0.0519	0.005	0.109	<0.044	<0.080	<0.041	<0.043		<0.040	<0.041	<0.053	<0.025	<0.027	<0.026
1,2,4-Trichlorobenzene	mg/Kg	8260B	0.408	24	113	<0.036	<0.066	<0.034	<0.036		<0.033	<0.034	<0.044	<0.021	<0.022	<0.021
1,2,4-Trimethylbenzene	mg/Kg	8260B	1.3787**	219	219	<0.038	1.8 B	0.047 J B	<0.037		<0.035	<0.036	0.058 J B	0.028 J	<0.023	<0.022
1,2-Dibromo-3-Chloropropane	mg/Kg	8260B	0.0002	0.008	0.092	<0.21	<0.39	<0.20	<0.21		<0.19	<0.20	<0.26	<0.12	<0.13	<0.12
1,2-Dibromoethane	mg/Kg	8260B	0.0000282	0.05	0.221	<0.041	<0.075	<0.038	<0.040		<0.037	<0.038	<0.050	<0.023	<0.025	<0.024
1,2-Dichlorobenzene	mg/Kg	8260B	1.168	376	376	<0.035	<0.065	<0.033	<0.035		<0.032	<0.033	<0.043	<0.020	<0.022	<0.021
1,2-Dichloroethane	mg/Kg	8260B	0.0028	0.652	2.87	<0.041	<0.076	<0.039	<0.041		<0.038	<0.039	<0.050	<0.024	<0.025	<0.024
1,2-Dichloropropane	mg/Kg	8260B	0.0033	3.4	15	<0.045	<0.083	<0.043	<0.045		<0.041	<0.043	<0.055	<0.024	<0.028	<0.027
1,3,5-Trimethylbenzene	mg/Kg	8260B	1.3787**	182	182	<0.040	0.92	<0.038	<0.040		<0.037	<0.038	<0.049	<0.023	<0.025	<0.024
1,3-Dichlorobenzene	mg/Kg	8260B	1.1528	297	297	<0.042	<0.077	<0.040	<0.042		<0.039	<0.040	<0.051	<0.024	<0.026	<0.025
1,3-Dichloropropane	mg/Kg	8260B	0.0003	2.37	10.6	<0.038	<0.070	<0.036	<0.038		<0.035	<0.036	<0.046	<0.022	<0.023	<0.022
1,4-Dichlorobenzene	mg/Kg	8260B	0.144	3.74	16.4	<0.038	<0.070	<0.036	<0.038		<0.035	<0.036	<0.047	<0.022	<0.024	<0.023
2,2-Dichloropropane	mg/Kg	8260B		191	191	<0.047	<0.086	<0.044	<0.046		<0.043	<0.044	<0.057	<0.027	<0.029	<0.028
2-Chlorotoluene	mg/Kg	8260B		907	907	<0.033	<0.061	<0.031	<0.033		<0.030	<0.031	<0.040	<0.019	<0.020	<0.020
4-Chlorotoluene	mg/Kg	8260B		253	253	<0.037	<0.068	<0.035	<0.036		<0.034	<0.035	<0.045	<0.021	<0.023	<0.022
Benzene	mg/Kg	8260B	0.0051	1.6	7.07	<0.015	0.17	<0.015	<0.015		<0.014	<0.015	<0.019	<0.0088	<0.0094	<0.0091
Bromobenzene	mg/Kg	8260B		342	679	<0.038	<0.069	<0.035	<0.037		<0.034	<0.035	<0.046	<0.021	<0.023	<0.022
Bromochloromethane	mg/Kg	8260B		216	906	<0.045	<0.083	<0.043	<0.045		<0.041	<0.043	<0.055	<0.026	<0.028	<0.027
Bromodichloromethane	mg/Kg	8260B	0.0003	0.418	1.83	<0.039	<0.072	<0.037	<0.039		<0.036	<0.037	<0.048	<0.022	<0.024	<0.023
Bromoform	mg/Kg	8260B	0.0023	25.4	113	<0.051	<0.094	<0.048	<0.050		<0.047	<0.048	<0.062	<0.029	<0.031	<0.030
Bromomethane	mg/Kg	8260B	0.0051	9.6	43	<0.084	<0.15	<0.079	<0.083		<0.077	<0.079	<0.10	<0.048	<0.051	<0.049
Carbon tetrachloride	mg/Kg	8260B	0.0039	0.916	4.03	<0.041	<0.074	<0.038	<0.040		<0.037	<0.038	<0.049	<0.023	<0.025	<0.024
Chlorobenzene	mg/Kg	8260B		370	761	<0.041	<0.075	<0.038	<0.040		<0.037	<0.038	< 0.050	<0.023	<0.025	<0.024
Chloroethane	mg/Kg	8260B	0.2266	2,120	2,120	< 0.053	<0.098	<0.050	<0.053		<0.049	<0.050	< 0.065	<0.030 *+	<0.033 *+	<0.031 *+
Chloroform	mg/Kg	8260B	0.0033	0.454	1.98	<0.039	<0.072	< 0.037	<0.039		<0.036	<0.037	<0.047	<0.022	<0.024	<0.023
Chloromethane	mg/Kg	8260B	0.0155	159	669	<0.034	<0.062	<0.032	<0.033		<0.031	<0.032	<0.041	<0.019	<0.021	<0.020
cis-1,2-Dichloroethene	mg/Kg	8260B	0.0412	156	2,340	0.097 J	7.9	<0.041	<0.043		<0.040	<0.041	<0.052	<0.025	<0.026	<0.025
cis-1,3-Dichloropropene	mg/Kg	8260B	0.0003	1,210	1,210	<0.044	<0.081	<0.041	<0.043		<0.040	<0.041	<0.053	<0.025	<0.027	<0.026
Dibromochloromethane	mg/Kg	8260B	0.032	8.28	38.9	<0.052	<0.095	<0.049	<0.051		<0.047	<0.049	<0.063	<0.029	<0.032	<0.030
Dibromomethane	mg/Kg	8260B		34	143	<0.029	<0.052	<0.027	<0.028		<0.026	<0.027	<0.035	<0.016	<0.017	<0.017
Dichlorodifluoromethane	mg/Kg	8260B	3.0863	126	530	<0.071	<0.13	< 0.067	<0.070		< 0.065	<0.067	<0.087	<0.041	<0.044	<0.042
Ethylbenzene	mg/Kg	8260B	1.57	8.02	<u>35.4</u>	<0.019	0.38	<0.018	<0.019		<0.018	<0.018	<0.023	<0.011	<0.012	<0.011
Hexachlorobutadiene	mg/Kg	8260B		1.63	7.19	<0.047	<0.086	<0.044	<0.046		<0.043	<0.044	<0.057	<0.027	<0.029	<0.028
Isopropyl ether	mg/Kg	8260B		2,260	2,260	<0.029	<0.053	<0.027	<0.029		<0.027	<0.028	<0.035	<0.017	<0.018	<0.017
Isopropylbenzene	mg/Kg	8260B		268	268	<0.041	0.12 J	<0.038	<0.040		< 0.037	<0.038	< 0.049	<0.023	<0.025	<0.024
Methyl tert-butyl ether	mg/Kg	8260B	0.027	63.8	282	<0.042	<0.076	<0.039	<0.041		<0.038	<0.039	<0.051	<0.024	<0.025	<0.024
Methylene Chloride	mg/Kg	8260B	0.0026	61.8	1,150	<0.17	<0.32	<0.16	<0.17		<0.16	<0.16	<0.21	<0.098	<0.11	<0.10
Naphthalene	mg/Kg	8260B	0.658182	5.52	24.10	< 0.035	0.57	< 0.033	< 0.035		<0.032	<0.033	0.12 J	0.044 J	0.027 J	<0.021
n-Butylbenzene	mg/Kg	8260B		108	108	0.20	0.52	<0.039	<0.040		<0.038	<0.039	<0.050	<0.023	<0.025	<0.024
N-Propylbenzene	mg/Kg	8260B		264	264	<0.044	0.28	<0.041	<0.043		<0.040	<0.041	<0.053	<0.025	<0.027	<0.026
p-Isopropyltoluene	mg/Kg	8260B		162	162	<0.038	0.20	<0.036	<0.038		<0.035	<0.036	<0.046	<0.022	<0.023	<0.022
sec-Butylbenzene	mg/Kg	8260B		145	145	0.16	0.14 J	<0.040	<0.041		<0.039	<0.040	<0.051	<0.024	<0.026	<0.025
Styrene	mg/Kg	8260B	0.22	867	867	<0.041	<0.075	<0.038	<0.040		<0.037	<0.038	<0.050	<0.023	<0.025	<0.024
tert-Butylbenzene	mg/Kg	8260B		183	183	<0.042	<0.077	<0.040	<0.041		<0.039	<0.040	<0.051	<0.024	<0.026	<0.025
Tetrachloroethene	mg/Kg	8260B	0.0045	33	145	<0.039	<0.072	<0.037	<0.039		<0.036	0.076 J	0.19	<0.022	<0.024	<0.023
Toluene	mg/Kg	8260B	1.1072	818	818	<0.016	0.52	0.030	<0.015		<0.014	<0.015	0.034	0.018	<0.0095	<0.0091
trans-1,2-Dichloroethene	mg/Kg	8260B	0.0626	1560	<u>1850</u>	<0.037	0.15 J	<0.035	<0.036		<0.034	<0.035	<0.045	<0.021	<0.023	<0.022
trans-1,3-Dichloropropene	mg/Kg	8260B		1,510	1,510	<0.037	<0.070	<0.036	<0.038		<0.035	<0.036	<0.046	<0.021	<0.023	<0.022
Trichloroethene	mg/Kg	8260B	0.0036	1.3	8.41	0.034 J	2.7	0.16	1 <u>3</u>		<0.035	0.69	<0.040	1	18	14
Trichlorofluoromethane	mg/Kg	8260B	0.0036	1,230	1,230	<0.034 J	<0.083	<0.043	<u>73</u> <0.045		<0.016	<0.043	<0.055	<0.026	<0.028	<0.027
Vinyl chloride	mg/Kg	8260B	0.0001	0.067	2.08	<0.028	<0.051	<0.026	<0.045		<0.041	<0.045	<0.034	<0.026	<0.026	<0.027
Xylenes, Total		8260B	3.96	1,212		-							<u> </u>			
Aylenes, rotal	mg/Kg	0700R	3.90	1,272	<u>1212</u>	<0.023	1.6	0.032 J	<0.023		<0.021	<0.022	0.10	0.046	<0.014	<0.014



# COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

# MILWAUKEE, WI

Cample	1	1		T	1	VE-1	VE-2	VE-3	ı v	/E-4	VE-5	VE-7	VE-8	EB-IB-1	EB-IB-2	EB-IB-3
Sample Depth (feet)			ND 700 DOL	NR 720 RCLs -	NR 720 RCLs -	0-1	0-1	0-1	0-1	0.5-1.5	0-1	0-1	0-1	0.5-1.5	0.5-1.5	0.5-1.5
Soil Type	Units	Method	NR 720 RCLs for GW	Non-Industrial Use for Direct	Industrial Use for Direct	Sandy CLAY	Clayey SAND	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Sandy CLAY			0.0 1.0
Soil Conditions	Ullis	Welliou	Protection (1)	Contact	Contact	Unsaturated	Unsaturated	Unsaturated	Unstaturated	Unsaturated	Unstaturated	Unstaturated	Unsaturated	Unsaturated	Moist	Unsaturated
Sampling Date			1101000011(1)	Protection (1)	Protection (1)	2/24/2021	2/24/2021	2/24/2021	2/24/2021	4/14/2021	2/24/2021	2/24/2021	2/24/2021	4/14/2021	4/14/2021	4/14/2021
Method 8260B - Volatile Organic Compoounds - TCLP		l			, ,	2/24/2021	2/24/2021	2/24/2021	2/24/2021	4/14/2021	2/24/2021	2/24/2021	2/24/2021	4/14/2021	4/14/2021	4/14/2021
1,1-Dichloroethene	mg/L	8260B		T	l		I	I		<0.010				<0.010	<0.010	<0.010
1,2-Dichloroethane	mg/L	8260B								<0.010				<0.010	<0.010	<0.010
Benzene	mg/L	8260B								<0.010				<0.010	<0.010	<0.010
Carbon tetrachloride	mg/L	8260B								<0.010				<0.010	<0.010	<0.010
Chlorobenzene	mg/L	8260B								<0.010				<0.010	<0.010	<0.010
Chloroform	mg/L	8260B								<0.020				<0.020	<0.020	<0.020
Methyl Ethyl Ketone	mg/L	8260B								<0.050				<0.050	<0.050	<0.050
Tetrachloroethene	mg/L	8260B								<0.010				<0.010	<0.010	<0.010
Trichloroethene	mg/L	8260B								0.06				<0.010	0.085	0.18
Vinyl Chloride	mg/L	8260B								<0.010				<0.010	<0.010	<0.010
Semivolatile Organic Compounds (SVOCs)	<u>, , , , , , , , , , , , , , , , , , , </u>			<u> </u>	<u> </u>		<u> </u>				<u> </u>	L		<u> </u>	<u> </u>	
1,2,4-Trichlorobenzene	mg/Kg	8270D	0.408	24	113											
1,2-Dichlorobenzene	mg/Kg	8270D	1.168	376	376											
1,3-Dichlorobenzene	mg/Kg	8270D	1.1528	297	297											
1,4-Dichlorobenzene	mg/Kg	8270D	0.144	3.74	16.4											
1-Methylnaphthalene	mg/Kg	8270D		17.6	72.7											
2,2'-oxybis[1-chloropropane]	mg/Kg	8270D	-											-		
2,4,5-Trichlorophenol	mg/Kg	8270D	-	6320	<u>82,100</u>									-		
2,4,6-Trichlorophenol	mg/Kg	8270D		49.3	<u>209</u>											
2,4-Dichlorophenol	mg/Kg	8270D		190	<u>2460</u>											
2,4-Dimethylphenol	mg/Kg	8270D		1260	<u>16,400</u>											
2,4-Dinitrophenol	mg/Kg	8270D		126	<u>1640</u>									-		
2,4-Dinitrotoluene	mg/Kg	8270D	0.0001	1.74	<u>7.37</u>											
2,6-Dinitrotoluene	mg/Kg	8270D	0.0001	0.363	<u>1.54</u>											
2-Chloronaphthalene	mg/Kg	8270D		4780	60,300											
2-Chlorophenol	mg/Kg	8270D		391	<u>5,840</u>											
2-Methylnaphthalene	mg/Kg	8270D		239	3010											
2-Methylphenol	mg/Kg	8270D		3160	41,000											
2-Nitroaniline	mg/Kg	8270D		627	<u>8010</u>											
2-Nitrophenol	mg/Kg	8270D		0400**												
3 & 4 Methylphenol	mg/Kg	8270D		9480**	<u>123,100**</u>											
3,3'-Dichlorobenzidine 3-Nitroaniline	mg/Kg	8270D 8270D														
4,6-Dinitro-2-methylphenol	mg/Kg mg/Kg	8270D														
4-Bromophenyl phenyl ether	mg/Kg	8270D														
4-Chloro-3-methylphenol	mg/Kg	8270D		6320	82,100											
4-Chloroaniline	mg/Kg	8270D		2.71	11.5											
4-Chlorophenyl phenyl ether	mg/Kg	8270D														
4-Nitroaniline	mg/Kg	8270D		27.1	115											
4-Nitrophenol	mg/Kg	8270D														
Acenaphthene	mg/Kg	8270D		3590	45,200											
Acenaphthylene	mg/Kg	8270D														
Anthracene	mg/Kg	8270D	196.9492	17,900	100,000											
Benzo[a]anthracene	mg/Kg	8270D	-	1.14	<u>21</u>											
Benzo[a]pyrene	mg/Kg	8270D	0.47	0.115	<u>2.11</u>											
Benzo[b]fluoranthene	mg/Kg	8270D	0.4781	1.15	<u>21.1</u>											
Benzo[g,h,i]perylene	mg/Kg	8270D														
Benzo[k]fluoranthene	mg/Kg	8270D		11.5	<u>211</u>											
Benzoic acid	mg/Kg	8270D		100,000	<u>100,000</u>											
Benzyl alcohol	mg/Kg	8270D		6320	<u>82,100</u>											
Bis(2-chloroethoxy)methane	mg/Kg	8270D		190	<u>2460</u>											
Bis(2-chloroethyl)ether	mg/Kg	8270D		0.286	<u>1.29</u>											
Bis(2-ethylhexyl) phthalate	mg/Kg	8270D	2.88	38.8	<u>164</u>											
Butyl benzyl phthalate	mg/Kg	8270D		286	<u>1210</u>											
Carbazole	mg/Kg	8270D														
Chrysene	mg/Kg	8270D	0.1442	115	<u>2110</u>											
Dibenz(a,h)anthracene	mg/Kg	8270D		0.115	<u>2</u>											
Dibenzofuran	mg/Kg	8270D		73	<u>1040</u>											



# COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

# MILWAUKEE, WI

								CI NUMBER: 4								
Sample				NR 720 RCLs -	NR 720 RCLs -	VE-1	VE-2	VE-3		E-4	VE-5	VE-7	VE-8	EB-IB-1	EB-IB-2	EB-IB-3
Depth (feet)			NR 720 RCLs	Non-Industrial	Industrial Use	0-1	0-1	0-1	0-1	0.5-1.5	0-1	0-1	0-1	0.5-1.5	0.5-1.5	0.5-1.5
Soil Type	Units	Method	for GW	Use for Direct	for Direct	Sandy CLAY	Clayey SAND	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Sandy CLAY			
Soil Conditions			Protection (1)	Contact	Contact	Unsaturated	Unsaturated	Unsaturated	Unstaturated	Unsaturated	Unstaturated	Unstaturated	Unsaturated	Unsaturated	Moist	Unsaturated
Sampling Date				Protection (1)	Protection (1)	2/24/2021	2/24/2021	2/24/2021	2/24/2021	4/14/2021	2/24/2021	2/24/2021	2/24/2021	4/14/2021	4/14/2021	4/14/2021
Diethyl phthalate	mg/Kg	8270D		50,600	100,000											
						-		<del> </del>			+					
Dimethyl phthalate	mg/Kg	8270D														
Di-n-butyl phthalate	mg/Kg	8270D	5.0333	6320	<u>82,100</u>											
Di-n-octyl phthalate	mg/Kg	8270D	0	632	<u>8210</u>											
Fluoranthene	mg/Kg	8270D	88.8778	2390	<u>30,100</u>											
Fluorene	mg/Kg	8270D	14.8299	2390	<u>30,100</u>											
Hexachlorobenzene	mg/Kg	8270D	0.0252	0.252	<u>1.15</u>											
Hexachlorobutadiene	mg/Kg	8270D		1.63	7.19											
Hexachlorocyclopentadiene	mg/Kg	8270D		2.55	10.8											
Hexachloroethane	mg/Kg	8270D		2.52	11.1											
Indeno[1,2,3-cd]pyrene	mg/Kg	8270D		1.15	21.1											
Isophorone		8270D		571	2420											
'	mg/Kg			-												
Naphthalene	mg/Kg	8270D	0.6582	5.52	<u>24.1</u>											
Nitrobenzene	mg/Kg	8270D														
N-Nitrosodi-n-propylamine	mg/Kg	8270D		0.078	<u>0.328</u>											
N-Nitrosodiphenylamine	mg/Kg	8270D	0.0764	111	<u>469</u>											
Pentachlorophenol	mg/Kg	8270D	0.0028	1.02	3.97											
Phenanthrene	mg/Kg	8270D														
Phenol	mg/Kg	8270D	2.2946	19,000	100,000											
Pyrene	mg/Kg	8270D	54.5455	1790	22,600											
Polycyclic Aromatic Hydrocarbons (PAHs)	i iiig/itg	02700	04.0400	1100	22,000											
		I 0070D	I	47.0	70.7		1	I	I	1	T	1	I	I .		I
1-Methylnaphthalene	mg/Kg	8270D		17.6	<u>72.7</u>											
2-Methylnaphthalene	mg/Kg	8270D		239	<u>3010</u>											
Acenaphthene	mg/Kg	8270D		3590	<u>45,200</u>											
Acenaphthylene	mg/Kg	8270D														
Anthracene	mg/Kg	8270D	196.9492	17,900	100,000											
Benzo[a]anthracene	mg/Kg	8270D		1.14	21											
Benzo[a]pyrene	mg/Kg	8270D	0.47	0.115	2.11											
Benzo[b]fluoranthene	mg/Kg	8270D	0.4781	1.15	21.1											
				+							-		<b>\</b>			-
Benzo[g,h,i]perylene	mg/Kg	8270D														
Benzo[k]fluoranthene	mg/Kg	8270D		11.5	<u>211</u>		-									
Chrysene	mg/Kg	8270D	0.1442	115	<u>2110</u>											
Dibenz(a,h)anthracene	mg/Kg	8270D		0.115	<u>2</u>											
Fluoranthene	mg/Kg	8270D	88.8778	2390	30,100										-	
Fluorene	mg/Kg	8270D	14.8299	2390	30,100											
Indeno[1,2,3-cd]pyrene	mg/Kg	8270D		1.15	21.1											
Naphthalene	mg/Kg	8270D	0.6582	5.52	24.1											
Phenanthrene		8270D									+		1			-
	mg/Kg															
Pyrene	mg/Kg	8270D	54.5455	1790	<u>22,600</u>											
Polychlorinated Biphenyls (PCBs)																
PCB-1016	mg/Kg	8082A	0.0094***	4.11	<u>28</u>										-	
PCB-1221	mg/Kg	8082A	0.0094***	0	<u>0.883</u>											
PCB-1232	mg/Kg	8082A	0.0094***	0.19	<u>0.792</u>											
PCB-1242	mg/Kg	8082A	0.0094***	0.235	0.972											
PCB-1248	mg/Kg	8082A	0.0094***	0.236	0.975											
PCB-1254	mg/Kg	8082A	0.0094***	0.239	1											
PCB-1260		8082A	0.0094***	0.243	1											
	mg/Kg	OUOZA	0.0094	0.243	<u> </u>											
RCRA Metals		1 00407	1 050:	1				1	1							
Arsenic	mg/Kg	6010B	0.584	0.677	3											
Barium	mg/Kg	6010B	164.8	15,300	<u>100,000</u>											
Cadmium	mg/Kg	6010B	0.752	71.1	<u>985</u>											
Chromium	mg/Kg	6010B	360,000*													
Copper	mg/Kg	6010B	91.6	3130	46,700											
Lead	mg/Kg	6010B	27	400	800											
Mercury		6010B	0.208	3.13							-					
-	mg/Kg				3.13								1			
Nickel	mg/Kg	6010B	13.0612	1550	<u>22,500</u>											
Selenium	mg/Kg	6010B	0.52	391	<u>5840</u>											
Silver	mg/Kg	6010B	0.8491	391	<u>5840</u>											
Zinc	mg/Kg	6010B		23,500	100,000											
1		,		.,			1			<u> </u>		<u> </u>	<u> </u>			



# SOIL QUALITY TEST RESULTS

# COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

							PROJE	ST NUMBER. 4	1							
Sample				NR 720 RCLs -	NR 720 RCLs -	VE-1	VE-2	VE-3	VE	-4	VE-5	VE-7	VE-8	EB-IB-1	EB-IB-2	EB-IB-3
Depth (feet)			NR 720 RCLs	Non-Industrial	Industrial Use	0-1	0-1	0-1	0-1	0.5-1.5	0-1	0-1	0-1	0.5-1.5	0.5-1.5	0.5-1.5
Soil Type	Units	Method	for GW	Use for Direct	for Direct	Sandy CLAY	Clayey SAND	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Sandy CLAY			
Soil Conditions			Protection (1)	Contact	Contact	Unsaturated	Unsaturated	Unsaturated	Unstaturated	Unsaturated	Unstaturated	Unstaturated	Unsaturated	Unsaturated	Moist	Unsaturated
Sampling Date				Protection (1)	Protection (1)	2/24/2021	2/24/2021	2/24/2021	2/24/2021	4/14/2021	2/24/2021	2/24/2021	2/24/2021	4/14/2021	4/14/2021	4/14/2021
Oranochlorine Pesticides																
4,4'-DDD	mg/Kg	8081A		1.9	9.57											
4,4'-DDE	mg/Kg	8081A		2	9.38											
4,4'-DDT	mg/Kg	8081A		1.89	8.53											
Aldrin	mg/Kg	8081A		0.04	0.187								-	_		
alpha-BHC	mg/Kg	8081A		0.086	0.365											
cis-Chlordane	mg/Kg	8081A														
beta-BHC	mg/Kg	8081A		0.301	<u>1.28</u>											
delta-BHC	mg/Kg	8081A												_		
Dieldrin	mg/Kg	8081A		0.034	<u>0.144</u>											
Endosulfan I	mg/Kg	8081A		469	<u>7010</u>											
Endosulfan II	mg/Kg	8081A														
Endosulfan sulfate	mg/Kg	8081A														
Endrin	mg/Kg	8081A	0.1616	19	<u>246</u>											
Endrin aldehyde	mg/Kg	8081A	0.1616	19	<u>246</u>											
Endrin ketone	mg/Kg	8081A														
gamma-BHC (Lindane)	mg/Kg	8081A	0.0023	0.568	<u>2.54</u>											
trans-Chlordane	mg/Kg	8081A														
Heptachlor	mg/Kg	8081A	0.0662	0.14	<u>0.654</u>											
Heptachlor epoxide	mg/Kg	8081A	0.082	0.072	<u>0.338</u>											
Methoxychlor	mg/Kg	8081A	4.32	316	<u>4100</u>											
Toxaphene	mg/Kg	8081A	0.928	0.493	<u>2.09</u>											
Herbicides																
2,4,5-T	mg/Kg	8151A		632	<u>8210</u>											
2,4-D	mg/Kg	8151A	0.0362	699	<u>9640</u>											
2,4-DB	mg/Kg	8151A		1900	<u>24,600</u>											
Dicamba	mg/Kg	8151A	0.1553	1900	<u>24,600</u>											
Dichlorprop	mg/Kg	8151A														
Silvex (2,4,5-TP)	mg/Kg	8151A	0.055	506	6,570											



#### SOIL QUALITY TEST RESULTS

#### **COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK**

# MILWAUKEE, WI

# PROJECT NUMBER: 40441

See Transform   Company									JI NONIDLIA. 4								
Deep Hard	Sample				NR 720 RCLs -	NR 720 RCLs -	VE-1	VE-2	VE-3			VE-5	VE-7	VE-8		EB-IB-2	EB-IB-3
Solicy   Solicy   Solicy   Periode	Depth (feet)			NR 720 RCLs	Non-Industrial		0-1	0-1	0-1		0.5-1.5	0-1		0-1	0.5-1.5	0.5-1.5	0.5-1.5
Personal	Soil Type	Units	Method	for GW	Use for Direct	for Direct	Sandy CLAY	Clayey SAND	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Sandy CLAY			
Water   Wate	Soil Conditions			Protection (1)			Unsaturated	Unsaturated	Unsaturated	Unstaturated	Unsaturated	Unstaturated	Unstaturated	Unsaturated	Unsaturated	Moist	Unsaturated
Perfusionement and PFPAN	Sampling Date				Protection (1)	Protection (1)	2/24/2021	2/24/2021	2/24/2021	2/24/2021	4/14/2021	2/24/2021	2/24/2021	2/24/2021	4/14/2021	4/14/2021	4/14/2021
Perfusion and PFPAN   1976   557	Method 537 (modified) - Fluorinated Alkyl Substances																
Performance and (PPHA)	Perfluorobutanoic acid (PFBA)	ug/Kg	537														
Perfuncementation of (PPRA)  UPK 0 537	Perfluoropentanoic acid (PFPeA)	ug/Kg	537							-							
Perfluencembrane and (PFOA)	Perfluorohexanoic acid (PFHxA)	ug/Kg	537							-							
Perfusor/cannos and (PFNA)  9979  Perfus	Perfluoroheptanoic acid (PFHpA)	ug/Kg	537							-							
Perfuserance and (PFDA)	Perfluorooctanoic acid (PFOA)	ug/Kg	537		1260	16,400				-							
Perfuncandesensia add (PFUA)  Perfun	Perfluorononanoic acid (PFNA)	ug/Kg	537							-							
Perfunctionscended PETRA)  19/70  19/	Perfluorodecanoic acid (PFDA)	ug/Kg	537							-							
Perfluence in the control of PFF IN   99/69   537	Perfluoroundecanoic acid (PFUnA)	ug/Kg	537														
Perfusion characteria and (PF FA)    MyKg   537	Perfluorododecanoic acid (PFDoA)	ug/Kg	537							_							
Perfusion-hexadeanic and (PFNDA)  90/FG  Perfusion-hexadeanic and (PFNDA)  90/FG  90/F	Perfluorotridecanoic acid (PFTriA)	ug/Kg	537														
Perfluorobetanesulforic acid (PFDS)  ugKg 537	Perfluorotetradecanoic acid (PFTeA)	ug/Kg	537														
Perfluorobulanesulfonic acid (PFBS)  ug/Kg 537	Perfluoro-n-hexadecanoic acid (PFHxDA)	ug/Kg	537														
Perfluoroperanesulfonic acid (PFPeS)  ugKg 537	Perfluoro-n-octadecanoic acid (PFODA)	ug/Kg	537														
Perfluorochamesulfonic Acid (PFHS)	Perfluorobutanesulfonic acid (PFBS)	ug/Kg	537														
Perfluorobeptanesulfonic Acid (PFHpS)	Perfluoropentanesulfonic acid (PFPeS)	ug/Kg	537														
Perfluorocatanesulfonic acid (PFOS)	Perfluorohexanesulfonic acid (PFHxS)	ug/Kg	537														
Perfluoronanesulfonic acid (PFNS)	Perfluoroheptanesulfonic Acid (PFHpS)	ug/Kg	537														
Perfluoroddecanesulfonic acid (PFDS)	Perfluorooctanesulfonic acid (PFOS)	ug/Kg	537		1260	<u>16,400</u>											
Perfluorododecanesulfonic acid (PFDoS)	Perfluorononanesulfonic acid (PFNS)	ug/Kg	537														
Perfluoroctanesulfonamide (FOSA)	Perfluorodecanesulfonic acid (PFDS)	ug/Kg	537			1											
NEIFOSA	Perfluorododecanesulfonic acid (PFDoS)	ug/Kg	537			I											
NMEFOSA N-methylperfluoroctanesulfonamidoacetic acid (NMEFOSAA) N-methylperfluoroctane	Perfluorooctanesulfonamide (FOSA)	ug/Kg	537														
N-methylperfluoroctanesulfonamidoacetic acid (NMeFOSAA) ug/Kg 537		ug/Kg	537			1											
Nethylperfluoroctanesulfonamidoacetic acid (NEIFOSAA)	NMeFOSA	ug/Kg	537														
NMEFOSE	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ug/Kg	537			-											
NEIFOSE	, ,	ug/Kg	537			I											
4:2 FTS		ug/Kg	537														
6:2 FTS	NEtFOSE	ug/Kg	537														
8:2 FTS	4:2 FTS	ug/Kg	537			1											
10:2 FTS		ug/Kg	537														
DONA	8:2 FTS	ug/Kg	537														
HFPO-DA (GenX)	10:2 FTS	ug/Kg	537														
F-53B Major		ug/Kg	537														
		ug/Kg	537														
	,	ug/Kg	537														
F-53B Minor ug/Kg   537	F-53B Minor	ug/Kg	537														

(1) From WDNR RCLs Worksheet dated December 2018

Italicized values exceed Groundwater Protection, Non-Industrial Direct Contact, or Industrial Direct-Contact RCLs

BOLD values exceed Groundwater Protection, Non-Industrial Direct Contact, or Industrial Direct-Contact RCLs

<u>BOLD Underlined</u> values exceed Groundwater Protection, Non-Industrial Direct Contact, or Industrial Direct-Contact RCLs
--- = Not analyzed / No established standard

J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value

F1 = Matrix spike and/or matrix spike duplicate recovery exceeds control limits

F2 MS/MSD RPD exceeds control limits

V Serial Dilution exceeds the control limits

B = Compound was found in the blank and sample

\*+ = Laboratory conrol sample and/or laboratory control sample duplicate is outside acceptance limits, high biased

\* = Laboratory control sample and/or laboratory control sample duplicate is outside acceptance limits

\*\* = Combined established standard of 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene

\*\*\* = Combined established standard for NR 720 RCLs for groundwater protection



# TABLE 1 SOIL QUALITY TEST RESULTS COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

Sample		1		LID 700 DOI	Lup 700 poi	FR-R-1	7/MW-1	EB-B-18/MW-2	FR-M	W-1R <sub>2</sub>	FR-R	3-19/MW-3	FR-R-2	20/MW-4	FR-R-2	1/MW-5	EB-MW-7	FR-	B-22
Depth (feet)			NR 720 RCLs	NR 720 RCLs -	NR 720 RCLs - Industrial Use	1-4	16-18	2-4	28-30	63-65	1-4.5	6.5-8.5	2-5	23-24	2-4	7-9	2-4	1-4	4-6
Soil Type	Units	Method		Non-Industrial Use for Direct	for Direct	Fill / Silty Clay	Silty CLAY	FILL	Silty CLAY	Silty CLAY	FILL	FILL / Silty CLAY	FILL	Silty CLAY	FILL	Silty CLAY	Silty CLAY	Fill / Silty Clay	Silty CLAY
Soil Conditions	Office	IVICTIOU	Protection (1)	Contact	Contact	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date			1 101000011 (1)	Protection (1)	Protection (1)	5/4/2021	5/4/2021	6/3/2021	3/21/2023	3/22/2023	7/21/2021	7/21/2021	7/21/2021	7/21/2021	6/3/2021	6/3/2021	3/22/2023	5/5/2021	5/5/2021
Physical Characteristics				1 (7	( )	3/4/2021	J/4/2021	0/3/2021	3/21/2023	3/22/2023	1/21/2021	1/21/2021	1/21/2021	1/21/2021	0/3/2021	0/3/2021	3/22/2023	J/J/2021	3/3/2021
Percent Moisture						12.3	15.2	14.6	19.9	8.4	11.1	19.5	3	11.9	4.7	16.3	14.1	13.2	15.7
Percent Solids						87.7	84.8	85.4	80.1	91.6	88.9	80.5	97	88.1	95.3	83.7	85.9	86.8	84.3
Volatile Organic Compounds (VOCs)						01.1	04.0	00.4	00.1	91.0	00.9	00.5	91	00.1	95.5	03.7	00.9	00.0	04.3
1,1,1,2-Tetrachloroethane	malka	8260B	0.0534	2.78	12.3	<0.030 *+	<0.031 *+	<0.032	<0.042	<0.037	<0.030	<0.034	<0.025	<0.029	<0.025	<0.032	<0.038	<0.030 *+	<0.031 *+
1,1,1-Trichloroethane	mg/Kg mg/Kg	8260B	0.0334	640		<0.030 +	<0.031 +	8.1	<0.042	<0.037	<0.030	<0.034	<0.025	<0.029	<0.025	<0.032	<0.036	<0.025	<0.026
1,1,2,2-Tetrachloroethane		8260B	0.1402	0.81	640			<0.027	<0.036	<0.032	<0.025	<0.030	<0.020	<0.024	<0.021	<0.027	<0.031	<0.025	<0.020
1,1,2-Trichloroethane	mg/Kg	8260B	0.0002	1.59	<u>3.6</u> 7.01	<0.026 <0.023 *+	<0.027 <0.024 *+	<0.027	<0.032	<0.032	<0.023	<0.026	<0.019	<0.023	<0.022	<0.027	<0.033	<0.020 *+	<0.021
1,1-Dichloroethane	mg/Kg	8260B	0.4834	5.06	22.2	<0.025 +		0.71	<0.032	<0.033	<0.023	<0.030	<0.019	<0.022	<0.019	<0.024	<0.029	<0.023 +	<0.024 +
	mg/Kg						0.78 *+												
1,1-Dichloroethene	mg/Kg	8260B	0.005	320	<u>1,190</u>	<0.025	<0.026	0.26	<0.035	<0.031	<0.025	<0.029	<0.021	<0.025	<0.021	<0.027	<0.032	<0.026	<0.027
1,1-Dichloropropene	mg/Kg	8260B				<0.019	<0.020	<0.020	<0.027	<0.024	<0.019	<0.022	<0.016	<0.019	<0.016	<0.021	<0.025	<0.020	<0.020
1,2,3-Trichlorobenzene	mg/Kg	8260B	0.0540	62.6	934	<0.029	<0.031	<0.031	<0.042	<0.037	<0.030	<0.034	<0.024	<0.029	<0.025	<0.032	<0.038	<0.030	<0.031
1,2,3-Trichloropropane	mg/Kg	8260B 8260B	0.0519	0.005	0.109	<0.027 *+	<0.028 *+	<0.028 <0.023	<0.038	<0.033	<0.027	<0.031	<0.022	<0.026 <0.022	<0.023	<0.029 <0.024	<0.034 <0.028	<0.027 *+	<0.028 *+ <0.023
1,2,4-Trichlorobenzene	mg/Kg	+	0.408	24	113	<0.022	<0.023		<0.031	<0.027	<0.022	<0.025	<0.018		<0.019			<0.022	
1,2,4-Trimethylbenzene	mg/Kg	8260B	1.3787**	219	219	<0.023	1.2	0.037 J	<0.032	<0.029	0.043 J	<0.027	<0.019	<0.023	<0.020	<0.025	<0.030	0.056 J	<0.024
1,2-Dibromo-3-Chloropropane	mg/Kg	8260B	0.0002	0.008	0.092	<0.13 *+	<0.13 *+	<0.14	<0.18	<0.16	<0.13	<0.15	<0.11	<0.13	<0.11	<0.14	<0.16	<0.13 *+ *-	<0.14 *+
1,2-Dibromoethane	mg/Kg	8260B	0.0000282	0.05	0.221	<0.025 *+	<0.026 *+	<0.026	<0.035	<0.031	<0.025	<0.029	<0.021	<0.024	<0.021	<0.027	<0.032	<0.025 *+	<0.026 *+
1,2-Dichlorobenzene	mg/Kg	8260B	1.168	376	376	<0.021 *+	<0.023 *+	<0.023	<0.030	<0.027	<0.022	<0.025	<0.018	<0.021	<0.018	<0.023	<0.028	<0.022 *+	<0.023 *+
1,2-Dichloroethane	mg/Kg	8260B	0.0028	0.652	<u>2.87</u>	<0.025 *+	<0.027 *+	0.36	<0.036	<0.031	<0.025	<0.029	<0.021	<0.025	<0.021	<0.027	<0.032	<0.026 *+	<0.027 *+
1,2-Dichloropropane	mg/Kg	8260B	0.0033	3.4	<u>15</u>	<0.027 *+	<0.029 *+	<0.029	<0.039	<0.034	<0.028	<0.032	<0.023	<0.027	<0.023	<0.030	<0.035	<0.028 *+	<0.029 *+
1,3,5-Trimethylbenzene	mg/Kg	8260B	1.3787**	182	<u>182</u>	<0.024	0.96	<0.026	<0.034	<0.030	<0.025	<0.028	<0.020	<0.024	<0.021	<0.026	<0.031	<0.025	<0.026
1,3-Dichlorobenzene	mg/Kg	8260B	1.1528	297	297	<0.026	<0.027	<0.027	<0.036	<0.032	<0.026	<0.030	<0.021	<0.025	<0.022	<0.028	<0.033	<0.026	<0.027
1,3-Dichloropropane	mg/Kg	8260B	0.0003	2.37	10.6	<0.023	<0.025	<0.025	<0.033	<0.029	<0.023	<0.027	<0.019	<0.023	<0.020	<0.025	<0.030	<0.024	<0.025
1,4-Dichlorobenzene	mg/Kg	8260B	0.144	3.74	<u>16.4</u>	<0.023 *+	<0.025 *+	<0.025	<0.033	<0.029	<0.024	<0.027	<0.019	<0.023	<0.020	<0.025	<0.030	<0.024 *+	<0.025 *+
2,2-Dichloropropane	mg/Kg	8260B		191	191	<0.028	<0.030	<0.030	<0.040	<0.035	<0.029	<0.033	<0.024	<0.028	<0.024	<0.031	<0.037	<0.029	<0.030
2-Chlorotoluene	mg/Kg	8260B		907	907	<0.020	<0.021	<0.021	<0.028	<0.025	<0.020	<0.023	<0.017	<0.020	<0.017	<0.022	<0.026	<0.021	<0.021
4-Chlorotoluene	mg/Kg	8260B		253	<u>253</u>	<0.022	<0.024	<0.024	<0.032	<0.028	<0.023	<0.026	<0.019	<0.022	<0.019	<0.024	<0.029	<0.023	<0.024
Benzene	mg/Kg	8260B	0.0051	1.6	<u>7.07</u>	<0.0094 *+	0.23 *+	0.011 J	<0.013	<0.012	<0.0094	<0.011	<0.0078	<0.0092	<0.0080	<0.010	<0.012	<0.0096 *+	<0.0099 *+
Bromobenzene	mg/Kg	8260B		342	<u>679</u>	<0.023 *+	<0.024 *+	<0.024	<0.032	<0.028	<0.023	<0.026	<0.019	<0.022	<0.019	<0.025	<0.029	<0.023 *+	<0.024 *+
Bromochloromethane	mg/Kg	8260B		216	906	<0.027 *+	<0.029 *+	<0.029	<0.039	<0.034	<0.028	<0.032	<0.023	<0.027	<0.023	<0.030	<0.035	<0.028 *+	<0.029 *+
Bromodichloromethane	mg/Kg	8260B	0.0003	0.418	1.83	<0.024 *+	<0.025 *+	<0.025	<0.044	<0.039	<0.024	<0.028	<0.020	<0.023	<0.020	<0.026	<0.040	<0.024 *+	<0.025 *+
Bromoform	mg/Kg	8260B	0.0023	25.4	113	<0.031 *+	<0.033 *+	<0.033	<0.072	<0.064	<0.031	<0.036	<0.026	<0.031	<0.026	<0.033	<0.066	<0.032 *+	<0.033 *+
Bromomethane	mg/Kg	8260B	0.0051	9.6	43	<0.051 *+	<0.054 *+	<0.054	<0.035	<0.031	<0.051	<0.059	<0.042	<0.050	<0.043	<0.055	<0.032	<0.052 *+	<0.054 *+
Carbon tetrachloride	mg/Kg	8260B	0.0039	0.916	4.03	<0.025	<0.026	<0.026	<0.035	<0.031	<0.025	<0.029	<0.020	<0.024	<0.021	<0.026	<0.032	<0.025	<0.026
Chlorobenzene	mg/Kg	8260B	0.0000	370	761	<0.025 *+	<0.026 *+	<0.026	<0.046	<0.040	<0.025	<0.029	<0.021	<0.024	<0.021	<0.027	<0.042	<0.025 *+	<0.026 *+
Chloroethane	mg/Kg	8260B	0.2266	2,120	2,120	<0.032 *+	<0.034 *+	<0.034	<0.034	<0.030	<0.033	<0.037	<0.027	<0.032	<0.028	<0.035	<0.031	<0.033 *+	<0.034 *+
Chloroform	mg/Kg	8260B	0.0033	0.454	1.98	<0.024 *+	<0.025 *+	0.048 J	<0.029	<0.026	<0.024	<0.027	<0.020	<0.023	<0.020	<0.026	<0.026	<0.024 *+	<0.025 *+
Chloromethane	mg/Kg	8260B	0.0155	159	669	<0.021	<0.022	<0.022	<0.037	<0.033	<0.021	<0.024	<0.017	<0.020	<0.017	<0.022	<0.034	<0.021	<0.022
cis-1,2-Dichloroethene	mg/Kg	8260B	0.0412	156	2,340	<0.026 *+	0.073 *+	0.21	<0.038	<0.033	<0.026	<0.030	<0.022	<0.026	<0.022	<0.028	<0.034	<0.027 *+	<0.028 *+
cis-1,3-Dichloropropene	mg/Kg	8260B	0.0003	1,210	1,210	<0.027	<0.028	<0.028	<0.044	<0.039	<0.027	<0.031	<0.022	<0.026	<0.023	<0.029	<0.040	<0.027	<0.028
Dibromochloromethane	mg/Kg	8260B	0.032	8.28	<u>38.9</u>	<0.031 *+	<0.033 *+	<0.033	<0.024	<0.022	<0.032	<0.036	<0.026	<0.031	<0.027	<0.034	<0.022	<0.032 *+ *-	<0.033 *+
Dibromomethane	mg/Kg	8260B	2.0002	34	<u>143</u>	<0.017 *+	<0.018 *+	<0.018	<0.034	<0.030	<0.017	<0.020	<0.014	<0.017	<0.015	<0.019	<0.031	<0.018 *+	<0.018 *+
Dichlorodifluoromethane	mg/Kg	8260B		126	<u>530</u>	<0.043	<0.046	<0.046	<0.061	<0.054	<0.044	<0.050	<0.036	<0.043	<0.037	<0.046	<0.056	<0.044	<0.046
Ethylbenzene	mg/Kg	8260B	1.57	8.02	35.4	<0.012	0.22	<0.013	<0.017	<0.015	<0.012	<0.014	<0.0097	<0.012	<0.010	<0.013	<0.015	<0.012	<0.012
Hexachlorobutadiene	mg/Kg	8260B	+	1.63	7.19	<0.029	<0.030	<0.030 *+	<0.040	<0.036	<0.029	<0.033	<0.024	<0.028	<0.024 *+	<0.031 *+	<0.037	<0.029	<0.030
Isopropyl ether	mg/Kg	8260B		2,260	<u>2,260</u>	<0.018	<0.019	<0.019	<0.025	<0.022	<0.018	<0.020	<0.015	<0.017	<0.015	<0.019	<0.023	<0.018	<0.019
Isopropylbenzene Methyl tort hutul other	mg/Kg	8260B	0.027	268	268 202	<0.025	<0.026	<0.026	<0.035	<0.031	<0.025	<0.029	<0.020	<0.024	<0.021	<0.026	<0.032	<0.025	<0.026
Methyl tert-butyl ether	mg/Kg	8260B	0.027	63.8	282	<0.025 *+	<0.027 *+	<0.027	<0.036	<0.031	<0.025	<0.029	<0.021	<0.025	<0.022	<0.027	<0.033	<0.026 *+	<0.027 *+
Methylene Chloride	mg/Kg	8260B	0.0026	61.8	1,150	<0.10 *+	<0.11 *+	<0.11	<0.15	<0.13	<0.11	<0.12	<0.087	<0.10	<0.089	0.12 JB	<0.13	<0.11 *+	<0.11 *+
Naphthalene	mg/Kg	8260B		5.52	24.10	0.025 J	0.063 J	0.059 J	<0.030	<0.027	0.17	0.028 J	<0.018	0.049 J	<0.018	<0.023	<0.028	0.073	<0.023
n-Butylbenzene	mg/Kg	8260B	+	108	108 204	<0.025	<0.026	<0.027	<0.035	<0.031	<0.025	<0.029	<0.021	<0.025	<0.021	<0.027	<0.032	<0.025	<0.026
N-Propylbenzene	mg/Kg	8260B		264	<u>264</u>	<0.027	0.036 J	<0.028	<0.038	<0.033	<0.027	<0.031	<0.022	<0.026	<0.023	<0.029	<0.034	<0.027	<0.028
p-Isopropyltoluene	mg/Kg	8260B		162	<u>162</u>	<0.023	0.080	<0.025	<0.033	<0.029	<0.023	<0.027	<0.019	<0.023	<0.020	<0.025	<0.030	<0.024	<0.025
sec-Butylbenzene	mg/Kg	8260B	0.00	145	145	<0.026	<0.027	<0.027	<0.036	<0.032	<0.026	<0.030	<0.021	<0.025	<0.022	<0.027	<0.033	<0.026	<0.027
Styrene	mg/Kg	8260B	0.22	867	867	<0.025 *+	<0.026 *+	<0.026	<0.035	<0.031	<0.025	<0.029	<0.021	<0.024	<0.021	<0.027	<0.032	<0.025 *+	<0.026 *+
tert-Butylbenzene	mg/Kg	8260B		183	<u>183</u>	<0.026	<0.027	<0.027	<0.036	<0.032	<0.026	<0.030	<0.021	<0.025	<0.022	<0.027	<0.033	<0.026	<0.027
Tetrachloroethene	mg/Kg	8260B		33	145	<0.024	<0.025	0.041 J *+	<0.034	<0.030	<0.024	<0.027	<0.020	<0.023	<0.020 *+	<0.026 *+	<0.031	<0.024	<0.025
Toluene	mg/Kg	8260B	1.1072	818	<u>818</u>	<0.0094 *+	0.62 *+	0.022	<0.013	<0.012	0.038	<0.011	<0.0078	<0.0093	<0.0080	<0.010	<0.012	0.018 *+	<0.010 *+
trans-1,2-Dichloroethene	mg/Kg	8260B	0.0626	1560	<u>1850</u>	<0.022 *+	<0.024 *+	<0.024	<0.032	<0.028	<0.023	<0.026	<0.019	<0.022	<0.019	<0.024	<0.029	<0.023 *+	<0.024 *+
trans-1,3-Dichloropropene	mg/Kg	8260B		1,510	<u>1,510</u>	<0.023	<0.025	<0.025	<0.033	<0.029	<0.023	<0.027	<0.019	<0.023	<0.020	<0.025	<0.030	<0.024	<0.025
Trichloroethene	mg/Kg	8260B	0.0036	1.3	<u>8.41</u>	0.23 *+	<u>8.6 *+</u>	1.7	<0.015	<0.013	<0.011	<0.012	<0.0087	<0.010	<0.0090	<0.011	<0.014	<0.011 *+	<0.011 *+
Trichlorofluoromethane	mg/Kg	8260B		1,230	<u>1,230</u>	<0.027	<0.029	<0.029	<0.039	<0.034	<0.028	<0.032	<0.023	<0.027	<0.023	<0.030	<0.035	<0.028	<0.029
Vinyl chloride	mg/Kg	8260B		0.067	2.08	<0.017	<0.018	<0.018	<0.024	<0.021	<0.017	<0.019	<0.014	<0.017	<0.014	<0.018	<0.022	<0.017	<0.018
Xylenes, Total	mg/Kg	8260B	3.96	1,212	<u>1212</u>	<0.014	0.59	0.082	<0.020	<0.018	0.070	<0.016	<0.012	<0.014	<0.012	<0.015	<0.018	0.087	<0.015

# TABLE 1 SOIL QUALITY TEST RESULTS COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

										WIDER. 4044 I									
Sample				NR 720 RCLs -	NR 720 RCLs -	EB-B-1		EB-B-18/MW-2	EB-M		<u> </u>	3-19/MW-3		20/MW-4		1/MW-5	EB-MW-7		B-22
Depth (feet)		1	NR 720 RCLs		Industrial Use	1-4	16-18	2-4	28-30	63-65	1-4.5	6.5-8.5	2-5	23-24	2-4	7-9	2-4	1-4	4-6
Soil Type	Units	Method	for GW	Use for Direct	for Direct	Fill / Silty Clay	Silty CLAY	FILL	Silty CLAY	Silty CLAY	FILL	FILL / Silty CLAY	FILL	Silty CLAY	FILL	Silty CLAY	Silty CLAY	Fill / Silty Clay	Silty CLAY
Soil Conditions			Protection (1)	Contact	Contact	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date				Protection (1)	Protection (1)	5/4/2021	5/4/2021	6/3/2021	3/21/2023	3/22/2023	7/21/2021	7/21/2021	7/21/2021	7/21/2021	6/3/2021	6/3/2021	3/22/2023	5/5/2021	5/5/2021
Method 8260B - Volatile Organic Compoounds - TCLP																			
1,1-Dichloroethene	mg/L																		
1,2-Dichloroethane	mg/L	8260B																	
Benzene	mg/L	8260B																	
Carbon tetrachloride	mg/L	8260B																	
Chlorobenzene	mg/L	8260B																	
Chloroform	mg/L	8260B																	
Methyl Ethyl Ketone	mg/L	8260B																	
Tetrachloroethene	mg/L	8260B																	
Trichloroethene	mg/L	8260B																	
Vinyl Chloride	mg/L	8260B										_							
Semivolatile Organic Compounds (SVOCs)	<u> </u>									L	<u> </u>	l .	<u> </u>				<u> </u>		L
1,2,4-Trichlorobenzene	mg/Kg	8270D	0.408	24	113						<0.98		<0.037						
1,2-Dichlorobenzene	mg/Kg		1.168	376	376						<1.1		<0.041						
1,3-Dichlorobenzene	mg/Kg		1.1528	297	297						<1.0		<0.038						
1,4-Dichlorobenzene	mg/Kg		0.144	3.74	16.4						<1.2		<0.036						
1,4-Dichloroberizerie 1-Methylnaphthalene	mg/Kg		0.144	17.6	72.7						0.61 J		<0.044						
				17.0							0.61 J <1.1		<0.040						
2,2'-oxybis[1-chloropropane]	mg/Kg	_			92.400						<b>.</b>								
2,4,5-Trichlorophenol	mg/Kg			6320	<u>82,100</u>						<2.1		<0.078						
2,4,6-Trichlorophenol	mg/Kg			49.3	209 2460						<3.1		<0.12						
2,4-Dichlorophenol	mg/Kg			190	<u>2460</u>						<2.2		<0.081						
2,4-Dimethylphenol	mg/Kg			1260	<u>16,400</u>						<3.5		<0.13						
2,4-Dinitrophenol	mg/Kg			126	<u>1640</u>						<16		<0.60						
2,4-Dinitrotoluene	mg/Kg		0.0001	1.74	<u>7.37</u>						<1.4	-	<0.054						
2,6-Dinitrotoluene	mg/Kg		0.0001	0.363	<u>1.54</u>						<1.8		<0.067						
2-Chloronaphthalene	mg/Kg	_		4780	<u>60,300</u>						<1.0		<0.038						
2-Chlorophenol	mg/Kg			391	<u>5,840</u>						<1.6		<0.058						
2-Methylnaphthalene	mg/Kg			239	<u>3010</u>						0.77 J	-	<0.0063						
2-Methylphenol	mg/Kg	8270D		3160	<u>41,000</u>						<1.5		<0.055						
2-Nitroaniline	mg/Kg	8270D		627	<u>8010</u>						<1.2		<0.046						
2-Nitrophenol	mg/Kg	8270D									<2.2		<0.081						
3 & 4 Methylphenol	mg/Kg	8270D		9480**	123,100**						<1.5		<0.057						
3,3'-Dichlorobenzidine	mg/Kg	8270D									<1.3	-	<0.048						
3-Nitroaniline	mg/Kg	8270D									<2.8		<0.11						
4,6-Dinitro-2-methylphenol	mg/Kg										<7.3		<0.27						
4-Bromophenyl phenyl ether	mg/Kg										<1.2		<0.045						
4-Chloro-3-methylphenol	mg/Kg			6320	82,100						<3.1		<0.12						
4-Chloroaniline	mg/Kg			2.71	11.5						<4.3		<0.16						
4-Chlorophenyl phenyl ether	mg/Kg										<1.1		<0.040						
4-Nitroaniline	mg/Kg			27.1	115						<3.8		<0.14						
4-Nitrophenol	mg/Kg										<8.7		<0.32						
Acenaphthene	mg/Kg			3590	45,200						<0.16		<0.0061						
Acenaphthylene	mg/Kg										0.21 J		<0.0045		<del></del>				
Anthracene	mg/Kg			17,900	100,000						0.70 J		<0.0043						
Benzo[a]anthracene	mg/Kg		190.9492	1.14	21						14		<0.0057				<u> </u>	+	
				0.115							18		<0.0046	1					
Benzo[a]pyrene	mg/Kg		+	_	2.11														
Benzo[b]fluoranthene	mg/Kg		1	1.15	<u>21.1</u>						<u>42</u>		<0.0074						
Benzo[g,h,i]perylene	mg/Kg			11.5	244						9.0		<0.011						
Benzo[k]fluoranthene	mg/Kg			11.5	<u>211</u>						12		<0.010						
Benzoic acid	mg/Kg			100,000	100,000						<9.0		<0.34						
Benzyl alcohol	mg/Kg			6320	82,100						<9.0		<0.34						
Bis(2-chloroethoxy)methane	mg/Kg			190	2460						<0.93		<0.035						
Bis(2-chloroethyl)ether	mg/Kg			0.286	<u>1.29</u>						<1.4		<0.051						
Bis(2-ethylhexyl) phthalate	mg/Kg		2.88	38.8	<u>164</u>						<1.7		<0.062						
Butyl benzyl phthalate	mg/Kg	8270D		286	<u>1210</u>						<1.7		<0.065						
Carbazole	mg/Kg	8270D									<2.3		<0.085						
Chrysene	mg/Kg		0.1442	115	2110						21		< 0.0093						
Dibenz(a,h)anthracene	mg/Kg			0.115	2						3.7		<0.0066						
Dibenzofuran	mg/Kg			73	1040						<1.1		<0.040						
Discrizoraran	mg/ng	1 02/00		10	1040				II	<u> </u>	1 111		1 10.070	I	I	<u> </u>	I	I	



# TABLE 1 SOIL QUALITY TEST RESULTS COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

									PROJECT NO										
Sample				NR 720 RCLs -	NR 720 RCLs -	EB-B-1	-	EB-B-18/MW-2		W-1R <sub>2</sub>		3-19/MW-3	EB-B-2		-	21/MW-5	EB-MW-7	EB-	•
Depth (feet)			NR 720 RCLs	Non-Industrial	Industrial Use	1-4	16-18	2-4	- 28-30	63-65	1-4.5	6.5-8.5	2-5	23-24	2-4	7-9	2-4	1-4	4-6
Soil Type	Units	Method	for GW	Use for Direct	for Direct	Fill / Silty Clay	Silty CLAY	FILL	Silty CLAY	Silty CLAY	FILL	FILL / Silty CLAY	FILL	Silty CLAY	FILL	Silty CLAY	Silty CLAY	Fill / Silty Clay	Silty CLAY
Soil Conditions			Protection (1)	Contact	Contact	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date				Protection (1)	Protection (1)	5/4/2021	5/4/2021	6/3/2021	3/21/2023	3/22/2023	7/21/2021	7/21/2021	7/21/2021	7/21/2021	6/3/2021	6/3/2021	3/22/2023	5/5/2021	5/5/2021
	mg/Kg	8270D		50,600	400,000				i	i	<1.5		<0.058					1	
Diethyl phthalate					<u>100,000</u>										+	-	+		
Dimethyl phthalate	mg/Kg	8270D									<1.2		<0.045						
Di-n-butyl phthalate	mg/Kg	8270D	5.0333	6320	<u>82,100</u>						<1.4		<0.052						
Di-n-octyl phthalate	mg/Kg	8270D	0	632	<u>8210</u>						<1.5		<0.056						
Fluoranthene	mg/Kg	8270D	88.8778	2390	<u>30,100</u>						14		< 0.0063						
Fluorene	mg/Kg	8270D	14.8299	2390	30,100						< 0.13		<0.0048						
Hexachlorobenzene	mg/Kg	8270D	0.0252	0.252	1.15						<0.21		< 0.0079						
Hexachlorobutadiene	mg/Kg	8270D		1.63	7.19						<1.4		<0.054						
Hexachlorocyclopentadiene	mg/Kg	8270D		2.55	10.8						<5.2		<0.20						
Hexachloroethane	mg/Kg	8270D		2.52	11.1						<1.4		<0.052						
Indeno[1,2,3-cd]pyrene	mg/Kg	8270D		1.15	21.1						9.0		<0.008						
		8270D		571							<1.0		<0.038						
Isophorone	mg/Kg				<u>2420</u>														
Naphthalene	mg/Kg	8270D	0.6582	5.52	<u>24.1</u>						0.87 J		<0.0052						
Nitrobenzene	mg/Kg	8270D									<0.23		<0.0085						
N-Nitrosodi-n-propylamine	mg/Kg	8270D		0.078	<u>0.328</u>						<1.1		<0.042						
N-Nitrosodiphenylamine	mg/Kg	8270D	0.0764	111	<u>469</u>						<1.1		<0.040						
Pentachlorophenol	mg/Kg	8270D	0.0028	1.02	3.97						<15		<0.55						
Phenanthrene	mg/Kg	8270D									3.6		<0.0048						
Phenol	mg/Kg	8270D	2.2946	19,000	100,000						<2.0		<0.076						
Pyrene	mg/Kg	8270D	54.5455	1790	22,600						15		<0.076						
	Ilig/Rg	02700	34.3433	1130	22,000						13		₹0.0000						
Polycyclic Aromatic Hydrocarbons (PAHs)	1 "	1 00700	1	1= 0		2012									1	1	1		
1-Methylnaphthalene	mg/Kg	8270D		17.6	<u>72.7</u>	0.042 J	<0.0093	0.16	<0.020	<0.0088		0.014 J		<0.0092	0.33	<0.0095	<0.0093	0.039 J	<0.0095
2-Methylnaphthalene	mg/Kg	8270D		239	<u>3010</u>	0.018 J	<0.0070	0.18	<0.015	<0.0066		0.020 J		<0.0069	0.37	<0.0071	<0.0070	0.012 J	<0.0072
Acenaphthene	mg/Kg	8270D		3590	<u>45,200</u>	0.071	<0.0068	0.031 J	<0.015	<0.0065		0.053		<0.0067	0.41	<0.0070	< 0.0069	0.037 J	<0.0070
Acenaphthylene	mg/Kg	8270D				0.025 J	< 0.0050	0.017 J	<0.011	<0.0047		<0.0054		<0.0049	0.45	<0.0051	<0.0050	0.014 J	<0.0051
Anthracene	mg/Kg	8270D	196.9492	17,900	100,000	0.17	< 0.0063	0.075	0.065 J	<0.0060		0.035 J		< 0.0063	0.68	< 0.0065	<0.0064	0.038	< 0.0065
Benzo[a]anthracene	mg/Kg	8270D		1.14	21	0.87	<0.0051	0.34	0.47	<0.0048		0.13		<0.0050	1.9	0.0073JB	0.033 J	0.23	0.029 J
Benzo[a]pyrene	mg/Kg	8270D	0.47	0.115	2.11	0.91	<0.0073	0.4	0.67	<0.0070		0.17		<0.0073	1.9	<0.0075	0.036 J	0.21	0.031 J
												· ·							0.027 J
Benzo[b]fluoranthene	mg/Kg	8270D	0.4781	1.15	<u>21.1</u>	1.1	<0.0082	0.56	0.82	<0.0078		0.18		<0.0081	0.73	<0.0084	0.044	0.21	
Benzo[g,h,i]perylene	mg/Kg	8270D				0.43	<0.012	0.2	0.64	<0.012		0.079		<0.012	1.9	<0.012	0.020 J	0.11	0.013 J
Benzo[k]fluoranthene	mg/Kg	8270D		11.5	<u>211</u>	0.36	<0.011	0.23	0.31	<0.011		0.086		<0.011	0.23	<0.011	0.014 J	0.12	<0.012
Chrysene	mg/Kg	8270D	0.1442	115	<u>2110</u>	1.0	<0.010	0.43	0.61	<0.0098		0.14		<0.010	0.82	<0.011	0.039	0.23	0.037 J
Dibenz(a,h)anthracene	mg/Kg	8270D		0.115	2	0.12	< 0.0073	0.061	0.12	< 0.0069		0.029 J		< 0.0072	0.76	< 0.0075	< 0.0074	0.027 J	< 0.0075
Fluoranthene	mg/Kg	8270D	88.8778	2390	30,100	2.0	<0.0070	0.63	0.99	< 0.0067		0.22		<0.0070	1.3	<0.0072	0.061	0.42	0.042
Fluorene	mg/Kg	8270D	14.8299	2390	30,100	0.056	<0.0053	0.027 J	0.013 J	<0.0050		0.025 J		<0.0053	3	<0.0054	<0.0054	0.014 J	<0.0055
Indeno[1,2,3-cd]pyrene	mg/Kg	8270D		1.15	21.1	0.43	<0.0098	0.19	0.59	<0.0093		0.076		<0.0097	1.5	<0.010	0.021 J	0.10	0.014 J
								_								1	<b>+</b>		
Naphthalene	mg/Kg	8270D	0.6582	5.52	<u>24.1</u>	0.030 J	<0.0058	0.12	<0.013	<0.0055		0.028 J		<0.0058	7.7	<0.0060	0.0071 J	0.014 J	<0.0060
Phenanthrene	mg/Kg	8270D				0.96	<0.0053	0.5	0.24	0.0056 J		0.17		<0.0052	8	<0.0054	0.069	0.16	0.026 J
Pyrene	mg/Kg	8270D	54.5455	1790	<u>22,600</u>	1.9	<0.0075	0.64	0.94	<0.0071		0.19		<0.0075	6.1	0.0089 J	0.083	0.47	0.051
Polychlorinated Biphenyls (PCBs)																			
PCB-1016	mg/Kg	8082A	0.0094***	4.11	<u>28</u>	< 0.0067			<0.0081	< 0.0070	< 0.0073		< 0.0067				<0.0076	<0.0067	·
PCB-1221	mg/Kg	8082A	0.0094***	0	0.883	<0.0084			- <0.0081	<0.0070	< 0.0073		<0.0067				<0.0076	<0.0084	
PCB-1232	mg/Kg	8082A	0.0094***	0.19	0.792	<0.0083			<0.0056	<0.0048	<0.0051		<0.0046				<0.0052	<0.0083	
PCB-1242	mg/Kg	8082A	0.0094***	0.235	0.972	<0.0062			<0.0081	<0.0070	<0.0073		<0.0066				<0.0075	<0.0063	
PCB-1242 PCB-1248			0.0094***	0.236	0.975	<0.0075			<0.0098	<0.0070	<0.0073		<0.0081				<0.0073	<0.0005	
	mg/Kg	<del>                                     </del>	1		0.810											+	+		
PCB-1254	mg/Kg		0.0094***	0.239	1	<0.0041			<0.0070	<0.0061	<0.0063		<0.0058				<0.0066	<0.0041	
PCB-1260	mg/Kg	8082A	0.0094***	0.243	1	<0.0093 F1			- <0.0078	<0.0067	<0.0071		<0.0064				<0.0073	<0.0094	
RCRA Metals																			
Arsenic	mg/Kg	6010B	0.584	0.677	<u>3</u>	3.7 F2			6.2	3.9							<u>5.5</u>	7.4	
Barium	mg/Kg	6010B	164.8	15,300	100,000				- 75	17							47		
Cadmium		6010B	0.752	71.1	985				0.36	0.24							0.43		
Chromium	mg/Kg		360,000*						- 20	6.9							14		
Copper	mg/Kg		91.6	3130	<u>46,700</u>														
Lead	mg/Kg		27	400	<u>800</u>	36 F1 F2 V			- 21	7.6							18	32	
Mercury	mg/Kg	6010B	0.208	3.13	<u>3.13</u>				0.025	<0.0093							0.018		
Nickel	mg/Kg	6010B	13.0612	1550	22,500														
Selenium	mg/Kg	6010B	0.52	391	<u>5840</u>				< 0.65	<0.58							<0.61		
Silver	mg/Kg		0.8491	391	<u>5840</u>				- 0.31 J	<0.13							0.28J		
Zinc		-		23,500	100,000				<del> </del>								0.200		
اللال الله	mg/Kg	6010B		23,300	100,000														



# COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

# MILWAUKEE, WI

										MDEIX. TOTTI									
Sample				NR 720 RCLs -	NR 720 RCLs -	EB-B-1	7/MW-1	EB-B-18/MW-2	EB-M	IW-1R <sub>2</sub>	EB-B	3-19/MW-3	EB-B-2	20/MW-4	EB-B-2	1/MW-5	EB-MW-7	EB-I	-B-22
Depth (feet)			NR 720 RCLs	Non-Industrial	Industrial Use	1-4	16-18	2-4	- 28-30	63-65	1-4.5	6.5-8.5	2-5	23-24	2-4	7-9	2-4	1-4	4-6
Soil Type	Units	Method	for GW	Use for Direct	for Direct	Fill / Silty Clay	Silty CLAY	FILL	Silty CLAY	Silty CLAY	FILL	FILL / Silty CLAY	FILL	Silty CLAY	FILL	Silty CLAY	Silty CLAY	Fill / Silty Clay	Silty CLAY
Soil Conditions			Protection (1)	Contact	Contact	Unsaturated	Unsaturated	Unsaturated	u Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date				Protection (1)	Protection (1)	5/4/2021	5/4/2021	6/3/2021	3/21/2023	3/22/2023	7/21/2021	7/21/2021	7/21/2021	7/21/2021	6/3/2021	6/3/2021	3/22/2023	5/5/2021	5/5/2021
Oranochlorine Pesticides																			
4,4'-DDD	mg/Kg	8081A		1.9	9.57						<0.0051		<0.00093						
4,4'-DDE	mg/Kg	8081A		2	9.38						<0.0049		<0.00089						
4,4'-DDT	mg/Kg	8081A		1.89	8.53						<0.0045		<0.00082						
Aldrin	mg/Kg	8081A		0.04	0.187						<0.0066	-	<0.0012						
alpha-BHC	mg/Kg	8081A		0.086	0.365						< 0.0053	-	<0.00097						
cis-Chlordane	mg/Kg	8081A									<0.0076		<0.0014						
beta-BHC	mg/Kg	8081A		0.301	<u>1.28</u>						<0.0051	-	<0.00092						
delta-BHC	mg/Kg	8081A									<0.0045		<0.00083						
Dieldrin	mg/Kg	8081A		0.034	<u>0.144</u>						<0.0049		<0.00090						
Endosulfan I	mg/Kg	8081A		469	<u>7010</u>						<0.0051		<0.00093						
Endosulfan II	mg/Kg	8081A									<0.0052		<0.00095						
Endosulfan sulfate	mg/Kg	8081A									<0.0052		<0.00096						
Endrin	mg/Kg	8081A	0.1616	19	<u>246</u>						<0.0048		<0.00088						
Endrin aldehyde	mg/Kg	8081A	0.1616	19	<u>246</u>						<0.0054		<0.00098						
Endrin ketone	mg/Kg	8081A									<0.0046		<0.00084						
gamma-BHC (Lindane)	mg/Kg	8081A	0.0023	0.568	<u>2.54</u>	-					<0.0047		<0.00086			-			
trans-Chlordane	mg/Kg	8081A									<0.0054		<0.00099						
Heptachlor	mg/Kg	8081A	0.0662	0.14	<u>0.654</u>						<0.0051		<0.00093						
Heptachlor epoxide	mg/Kg	8081A	0.082	0.072	<u>0.338</u>						<0.0051		<0.00093						
Methoxychlor	mg/Kg	8081A	4.32	316	<u>4100</u>						<0.0062		<0.0011						
Toxaphene	mg/Kg	8081A	0.928	0.493	<u>2.09</u>						<0.038		<0.0069						
Herbicides																			
2,4,5-T	mg/Kg	8151A		632	<u>8210</u>						<0.013		<0.0023						
2,4-D	mg/Kg	8151A	0.0362	699	<u>9640</u>						<0.077		<0.014			-			
2,4-DB	mg/Kg	8151A		1900	<u>24,600</u>						0.055 J		<0.0076						
Dicamba	mg/Kg	8151A	0.1553	1900	<u>24,600</u>						<0.0077		<0.0014			-			
Dichlorprop	mg/Kg	8151A									<0.018		<0.0033			-			
Silvex (2,4,5-TP)	mg/Kg	8151A	0.055	506	<u>6,570</u>						<0.0077		<0.0014						



#### SOIL QUALITY TEST RESULTS

#### **COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK**

# MILWAUKEE, WI

#### **PROJECT NUMBER: 40441**

									PROJECT NO										
Sample				NR 720 RCLs -	NR 720 RCLs -	EB-B-1	7/MW-1	EB-B-18/MW-2	EB-M	W-1R <sub>2</sub>	EB-B	3-19/MW-3	EB-B-2	20/MW-4	EB-B-2	21/MW-5	EB-MW-7	EB-l	B-22
Depth (feet)			NR 720 RCLs	Non-Industrial	Industrial Use	1-4	16-18	2-4	28-30	63-65	1-4.5	6.5-8.5	2-5	23-24	2-4	7-9	2-4	1-4	4-6
Soil Type	Units	Method	for GW	Use for Direct	for Direct	Fill / Silty Clay	Silty CLAY	FILL	Silty CLAY	Silty CLAY	FILL	FILL / Silty CLAY	FILL	Silty CLAY	FILL	Silty CLAY	Silty CLAY	Fill / Silty Clay	Silty CLAY
Soil Conditions			Protection (1)	Contact	Contact	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date				Protection (1)	Protection (1)	5/4/2021	5/4/2021	6/3/2021	3/21/2023	3/22/2023	7/21/2021	7/21/2021	7/21/2021	7/21/2021	6/3/2021	6/3/2021	3/22/2023	5/5/2021	5/5/2021
Method 537 (modified) - Fluorinated Alkyl Substances																			
Perfluorobutanoic acid (PFBA)	ug/Kg	537						-											
Perfluoropentanoic acid (PFPeA)	ug/Kg	537																	
Perfluorohexanoic acid (PFHxA)	ug/Kg	537																	
Perfluoroheptanoic acid (PFHpA)	ug/Kg	537																	
Perfluorooctanoic acid (PFOA)	ug/Kg	537		1260	<u>16,400</u>							_							
Perfluorononanoic acid (PFNA)	ug/Kg	537										_							
Perfluorodecanoic acid (PFDA)	ug/Kg	537																	
Perfluoroundecanoic acid (PFUnA)	ug/Kg	537																	
Perfluorododecanoic acid (PFDoA)	ug/Kg	537																	
Perfluorotridecanoic acid (PFTriA)	ug/Kg	537																	
Perfluorotetradecanoic acid (PFTeA)	ug/Kg	537																	
Perfluoro-n-hexadecanoic acid (PFHxDA)	ug/Kg	537																	
Perfluoro-n-octadecanoic acid (PFODA)	ug/Kg	537																	
Perfluorobutanesulfonic acid (PFBS)	ug/Kg	537																	
Perfluoropentanesulfonic acid (PFPeS)	ug/Kg	537																	
Perfluorohexanesulfonic acid (PFHxS)	ug/Kg	537																	
Perfluoroheptanesulfonic Acid (PFHpS)	ug/Kg	537																	
Perfluorooctanesulfonic acid (PFOS)	ug/Kg	537		1260	<u>16,400</u>														
Perfluorononanesulfonic acid (PFNS)	ug/Kg	537																	
Perfluorodecanesulfonic acid (PFDS)	ug/Kg	537																	
Perfluorododecanesulfonic acid (PFDoS)	ug/Kg	537																	
Perfluorooctanesulfonamide (FOSA)	ug/Kg	537																	
NEtFOSA	ug/Kg	537																	
NMeFOSA	ug/Kg	537						-											
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ug/Kg	537						-				-							
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ug/Kg	537						-				-							
NMeFOSE	ug/Kg	537						-											
NEtFOSE	ug/Kg	537						-				-							
4:2 FTS	ug/Kg	537																	
6:2 FTS	ug/Kg	537																	
8:2 FTS	ug/Kg	537																	
10:2 FTS	ug/Kg	537																	
DONA	ug/Kg	537																	
HFPO-DA (GenX)	ug/Kg	537																	
F-53B Major	ug/Kg	537																	
F-53B Minor	ug/Kg	537																	

(1) From WDNR RCLs Worksheet dated December 2018

Italicized values exceed Groundwater Protection, Non-Industrial Direct Contact, or Industrial Direct-Contact RCLs

BOLD values exceed Groundwater Protection, Non-Industrial Direct Contact, or Industrial Direct-Contact RCLs

BOLD Underlined values exceed Groundwater Protection, Non-Industrial Direct Contact, or Industrial Direct-Contact RCLs

--- = Not analyzed / No established standard

J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value

F1 = Matrix spike and/or matrix spike duplicate recovery exceeds control limits

F2 MS/MSD RPD exceeds control limits

V Serial Dilution exceeds the control limits

B = Compound was found in the blank and sample

\*+ = Laboratory conrol sample and/or laboratory control sample duplicate is outside acceptance limits, high biased

\* = Laboratory control sample and/or laboratory control sample duplicate is outside acceptance limits

\*\* = Combined established standard of 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene

\*\*\* = Combined established standard for NR 720 RCLs for groundwater protection



# COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

Depth   Inche    Soil Type	(O I.			1			го	D 00
SelTope	Sample Depth (feet)	-		ND 700 DOI	NR 720 RCLs -	NR 720 RCLs -		
Projection   Projection   Projection   Contact   Contact   Projection   Contact   Contact   Projection   Contact   Contact   Projection   Contact   Cont		Linite	Method		1	l		
Protection   Protection (1)   Protection (1)		- Ullis	Metriou		1			
Psychol Disorder		+			1			
Percest Bolids Volatile Organic Compounds (VOCs) 11,1-Trictorocterane			<u> </u>		, ,	, ,	0/0/2021	5/5/2021
Parcent Solids	,						12 1	18.7
Volatile Organic Compounds (VOCs)								
1.1.1.2 Final note of the mark   mg/Ks   8280B   0.0534   2.78   12.3   4.0(29 ° + 0.032 ° + 0.032 °   1.1.2.2 Final note of the mark   mg/Ks   8280B   0.1402 ° + 10.0 * 10.0 * 1.1.2.2 Final note of the mark   mg/Ks   8280B   0.0002 ° 0.81   3.6   4.0(25 ° + 0.025 ° + 0.025 °   1.1.2.2 Final note of the mg/Ks   8280B   0.0032 ° 1.59 ° 7.01 ° 4.002 ° * 0.0025 °   1.1.2.2 Final note of the mg/Ks   8280B   0.0032 ° 1.59 ° 7.01 ° 4.002 ° * 0.0025 °   1.1.2.2 Final note of the mg/Ks   8280B   0.0032 ° 1.59 ° 7.01 ° 4.002 ° * 0.0025 °   1.1.2.2 Final note of the mg/Ks   8280B   0.005 ° 3.20 ° 1.199 ° 4.0025 ° 0.0022 ° 1.1.2.2 Final note of the mg/Ks   8280B   0.005 ° 3.20 ° 1.199 ° 4.0022 ° 1.1.2.2 Final note of the mg/Ks   8280B   0.005 ° 0.002 ° 0.002 ° 1.1.2.2 Final note of the mg/Ks   8280B   0.005 ° 0.002 ° 0.002 ° 1.1.2.2 Final note of the mg/Ks   8280B   0.005 ° 0.002 ° 0.002 ° 0.002 ° 1.2.2 Final note of the mg/Ks   8280B   0.005 ° 0.002 ° 0.002 ° 0.002 ° 1.2.2 Final note of the mg/Ks   8280B   0.005 ° 0.002 ° 0.002 ° 0.002 ° 0.002 ° 1.2.2 Final note of the mg/Ks   8280B   0.005 ° 0.008 ° 0.009 ° 0.003 ° 0.002 ° 0.002 ° 0.002 ° 0.002 ° 1.2.2 Final note of the mg/Ks   8280B   0.0002 ° 0.008 ° 0.002 ° 0.003 ° 0.002 °							01.0	01.0
1.1.1-Trichocenhame	• , , ,	ma/Ka	8260B	0.0534	2.78	12.3	<0.029 *+	<0.034 *+
11.22 Teinchordename	, , ,							
11.2-Trichrotoethane		<del></del>	8260B				<0.025	
11-Dichironehame								<0.026 *+
15-10-bib/recorpene	1,1-Dichloroethane		8260B	0.4834	5.06	22.2	<0.026 *+	<0.030 *+
13-Dichloropropene	1,1-Dichloroethene	mg/Kg	8260B	0.005	320	1,190	<0.025	<0.029
12.3-Tichloropenaene	1,1-Dichloropropene		8260B				<0.019	<0.022
12.4-Trintphrebrezzee	1,2,3-Trichlorobenzene		8260B		62.6	<u>934</u>	<0.029	<0.034
12.4-Intermetyhenzene	1,2,3-Trichloropropane	mg/Kg	8260B	0.0519	0.005	0.109	<0.026 *+	<0.031 *+
12-Disconos-3-Chieropropane	1,2,4-Trichlorobenzene	mg/Kg	8260B		24	<u>113</u>	<0.022	<0.025
12-Dishoroentenane	1,2,4-Trimethylbenzene	mg/Kg	8260B	1.3787**	219	<u>219</u>	<0.023	
12-Dichlorobenzene		mg/Kg				0.092		
1.2-Dichloropropane	*							<0.029 *+
1.2-Dichioropropane	,							<0.025 *+
1.3.5-Trimeshylbanzene	,							<0.029 *+
1-3-Dichlorobenzene								
13-Dichloropropane	* * * * * * * * * * * * * * * * * * * *				_			
14-Dichlorobenzene								
22-Dichloropropane	, , , , , ,	<del>_                                     </del>						
2-Chlorotoluene         mg/Kg         8260B          907         907         <0.020         <0.023           4-Chlorotoluene         mg/Kg         8260B          233         253         4.0022         <0.026	*							
4-Chlorotoluene         mg/Kg         8260B         —         253         253         <0.022         <0.026           Berzene         mg/Kg         8260B         0.0051         1.6         7.07         <0.0033 **								
Benzene								
Bromobenzene         mg/Kg         8260B          342         679         < 0.023 **         < 0.026 **           Bromochloromethane         mg/Kg         8260B          216         906         <0.027 **								
Bromochloromethane								
Bromodichloromethane         mg/Kg         8260B         0.0003         0.418         1.83         < 0.024 **         < 0.027 **           Bromoform         mg/Kg         8260B         0.0023         25.4         113         <0.031 **								
Bromoform         mg/Kg         8260B         0.0023         25.4         113         < 0.031 **         < 0.06 6 **           Bromomethane         mg/Kg         8260B         0.0057         9.6         43         <0.051 **								
Bromomethane         mg/Kg         8260B         0.0051         9.6         43         <0.051 **+         <0.059 **+           Carbon tetrachloride         mg/Kg         8260B         0.0039         0.916         4.03         <0.024								
Carbon tetrachloride         mg/Kg         8260B         0.0039         0.916         4.03         < 0.024         < 0.028           Chlorobenzene         mg/Kg         8260B          370         761         < 0.025 **						_		<0.059 *+
Chlorobenzene         mg/Kg         8260B         —         370         761         <0.025 *+         <0.029 *+           Chloroethane         mg/Kg         8260B         0.2266         2,120         <0.032 *+								
Chloroform         mg/Kg         8260B         0.0033         0.454         1.98         < 0.024 *+         < 0.027 *-           Chloromethane         mg/Kg         8260B         0.0155         159         669         <0.020	Chlorobenzene	mg/Kg	8260B		370	761	<0.025 *+	<0.029 *+
Chloromethane         mg/Kg         8260B         0.0155         159         669         <0.020         <0.024           dis-1,2-Dichloroethene         mg/Kg         8260B         0.0412         156         2.340         <0.026 *+	Chloroethane	mg/Kg	8260B	0.2266	2,120	2,120	<0.032 *+	<0.037 *+
cis-1,2-Dichloroethene         mg/Kg         8260B         0.0412         156         2,340         <0.026 *+         <0.030 *+           cis-1,3-Dichloropropene         mg/Kg         8260B         0.0003         1,210         1,210         <0.026	Chloroform	mg/Kg	8260B	0.0033	0.454	1.98	<0.024 *+	<0.027 *+
cis-1,3-Dichloropropene         mg/Kg         8260B         0.0003         1,210         1,210         <0.026         <0.031           Dibromochloromethane         mg/Kg         8260B         0.032         8.28         38.9         <0.031 **+	Chloromethane	mg/Kg	8260B	0.0155	159	<u>669</u>	<0.020	<0.024
Dibromochloromethane         mg/Kg         8260B         0.032         8.28         38.9         <0.031 *+         <0.036 *+           Dibromomethane         mg/Kg         8260B          34         143         <0.017 *+	cis-1,2-Dichloroethene	mg/Kg	8260B	0.0412	156	<u>2,340</u>	<0.026 *+	<0.030 *+
Dibromomethane         mg/Kg         8260B          34         143         <0.017 *+         <0.020 *+           Dichlorodifluoromethane         mg/Kg         8260B         3.0863         126         530         <0.043	cis-1,3-Dichloropropene	mg/Kg	8260B	0.0003	1,210	<u>1,210</u>	<0.026	
Dichlorodifluoromethane         mg/Kg         8260B         3.0863         126         530         <0.043         <0.050 FT           Ethylbenzene         mg/Kg         8260B         1.57         8.02         35.4         <0.012				0.032				<0.036 *+
Ethylbenzene         mg/Kg         8260B         1.57         8.02         35.4         < 0.012         < 0.014           Hexachlorobutadiene         mg/Kg         8260B          1.63         7.19         < 0.028		mg/Kg	8260B		34	<u>143</u>		<0.020 *+
Hexachlorobutadiene								<0.050 F1
Isopropyl ether	•							
Isopropylbenzene								
Methyl terl-butyl ether         mg/Kg         8260B         0.027         63.8         282         <0.025 *+         <0.029 *+           Methylene Chloride         mg/Kg         8260B         0.0026         61.8         1,150         <0.10 *+								
Methylene Chloride         mg/Kg         8260B         0.0026         61.8         1.150         <0.10 *+         <0.12 *+           Naphthalene         mg/Kg         8260B         0.658182         5.52         24.10         0.029 J         <0.025	,							
Naphthalene         mg/Kg         8260B         0.658182         5.52         24.10         0.029 J         <0.025           n-Butylbenzene         mg/Kg         8260B          108         108         <0.025	, ,							
n-Butylbenzene         mg/Kg         8260B          108         108         <0.025         <0.029           N-Propylbenzene         mg/Kg         8260B          264         264         <0.026								
N-Propylbenzene         mg/Kg         8260B          264         264         <0.026         <0.031           p-Isopropyltoluene         mg/Kg         8260B          162         162         <0.023		_						
p-Isopropyltoluene         mg/Kg         8260B          162         162         162         <0.023         <0.027           sec-Butylbenzene         mg/Kg         8260B          145         145         <0.025	- 9							
sec-Butylbenzene         mg/Kg         8260B          145         145         <0.025         <0.029           Styrene         mg/Kg         8260B         0.22         867         867         <0.025 *+	17					_		
Styrene         mg/Kg         860B         0.22         867         867         <0.025 *+         <0.029 *+           tert-Butylbenzene         mg/Kg         8260B          183         183         <0.025								
tert-Butylbenzene         mg/Kg         8260B          183         183         <0.025         <0.029           Tetrachloroethene         mg/Kg         8260B         0.0045         33         145         <0.024								
Tetrachloroethene         mg/Kg         8260B         0.0045         33         145         <0.024         <0.027           Toluene         mg/Kg         8260B         1.1072         818         818         0.038 *+         <0.011 *+								
Toluene         mg/Kg         8260B         1.1072         818         818         0.038 *+         <0.011 *+           trans-1,2-Dichloroethene         mg/Kg         8260B         0.0626         1560         1850         <0.022 *+	,							
trans-1,2-Dichloroethene         mg/Kg         8260B         0.0626         1560         1850         <0.022 *+         <0.026 *+           trans-1,3-Dichloropropene         mg/Kg         8260B          1,510         1.510         <0.023								
trans-1,3-Dichloropropene         mg/Kg         8260B          1,510         <0.023         <0.027           Trichloroethene         mg/Kg         8260B         0.0036         1.3         8_41         0.15 *+         <0.012 *+								
Trichloroethene         mg/Kg         8260B         0.0036         1.3         8.41         0.15 *+         < 0.012 *+           Trichlorofluoromethane         mg/Kg         8260B          1,230         1.230         < 0.027	· · · · · · · · · · · · · · · · · · ·							
Trichlorofluoromethane         mg/Kg         8260B          1,230         1,230         < 0.027         < 0.032					·			
Xylenes, Total mg/Kg 8260B 3.96 1,212 1212 0.034 <0.016	,							



# COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

Sample				NR 720 RCLs -	NR 720 RCLs -	EB-	B-23
Depth (feet)	1		NR 720 RCLs	Non-Industrial	Industrial Use	1-4	4-7
Soil Type	Units	Method	for GW	Use for Direct	for Direct	Fill	Fill
Soil Conditions	1		Protection (1)	Contact	Contact	Unsaturated	Unsaturated
Sampling Date	1			Protection (1)	Protection (1)	5/5/2021	5/5/2021
Method 8260B - Volatile Organic Compoounds - TCLP		•		•			
1,1-Dichloroethene	mg/L	8260B		l			
1,2-Dichloroethane	mg/L	8260B					
Benzene	mg/L	8260B					
Carbon tetrachloride	mg/L	8260B					
Chlorobenzene	mg/L	8260B					
Chloroform	mg/L	8260B					
Methyl Ethyl Ketone	mg/L	8260B					
Tetrachloroethene	mg/L	8260B					
Trichloroethene	mg/L	8260B					
Vinyl Chloride	mg/L	8260B					
Semivolatile Organic Compounds (SVOCs)	1 1119/1	0200B	L	<u> </u>			
1,2,4-Trichlorobenzene	mg/Kg	8270D	0.408	24	113		
1,2-Dichlorobenzene	mg/Kg	8270D	1.168	376	376		
1,3-Dichlorobenzene	mg/Kg	8270D	1.1528	297	297		
1,4-Dichlorobenzene	<del></del>	8270D	0.144	3.74	16.4		
1,4-Dichlorobenzene 1-Methylnaphthalene	mg/Kg mg/Kg	8270D 8270D	0.144	17.6			
	+	8270D 8270D		17.6	<u>72.7</u>		
2,2'-oxybis[1-chloropropane]	mg/Kg				92 400		
2,4,5-Trichlorophenol	mg/Kg	8270D 8270D		6320 49.3	<u>82,100</u>		
2,4,6-Trichlorophenol	mg/Kg				<u>209</u>		
2,4-Dichlorophenol	mg/Kg	8270D		190	<u>2460</u>		
2,4-Dimethylphenol	mg/Kg	8270D		1260	<u>16,400</u>		
2,4-Dinitrophenol	mg/Kg	8270D		126	<u>1640</u>		
2,4-Dinitrotoluene	mg/Kg	8270D	0.0001	1.74	7.37		
2,6-Dinitrotoluene	mg/Kg	8270D	0.0001	0.363	<u>1.54</u>		
2-Chloronaphthalene	mg/Kg	8270D		4780	60,300		
2-Chlorophenol	mg/Kg	8270D		391	<u>5,840</u>		
2-Methylnaphthalene	mg/Kg	8270D		239	<u>3010</u>		
2-Methylphenol	mg/Kg	8270D		3160	<u>41,000</u>		
2-Nitroaniline	mg/Kg	8270D		627	<u>8010</u>		
2-Nitrophenol	mg/Kg	8270D					
3 & 4 Methylphenol	mg/Kg	8270D		9480**	<u>123,100**</u>		
3,3'-Dichlorobenzidine	mg/Kg	8270D					
3-Nitroaniline	mg/Kg	8270D					
4,6-Dinitro-2-methylphenol	mg/Kg	8270D					
4-Bromophenyl phenyl ether	mg/Kg	8270D					
4-Chloro-3-methylphenol	mg/Kg	8270D		6320	<u>82,100</u>		
4-Chloroaniline	mg/Kg	8270D		2.71	<u>11.5</u>		
4-Chlorophenyl phenyl ether	mg/Kg	8270D					
4-Nitroaniline	mg/Kg	8270D		27.1	<u>115</u>		
4-Nitrophenol	mg/Kg	8270D					
Acenaphthene	mg/Kg	8270D		3590	<u>45,200</u>		
Acenaphthylene	mg/Kg	8270D					
Anthracene	mg/Kg	8270D	196.9492	17,900	100,000		
Benzo[a]anthracene	mg/Kg	8270D		1.14	<u>21</u>		
Benzo[a]pyrene	mg/Kg	8270D	0.47	0.115	<u>2.11</u>		
Benzo[b]fluoranthene	mg/Kg	8270D	0.4781	1.15	21.1		
Benzo[g,h,i]perylene	mg/Kg	8270D					
Benzo[k]fluoranthene	mg/Kg	8270D		11.5	<u>211</u>		
Benzoic acid	mg/Kg	8270D		100,000	100,000		
Benzyl alcohol	mg/Kg	8270D		6320	82,100		
Bis(2-chloroethoxy)methane	mg/Kg	8270D		190	2460		
Bis(2-chloroethyl)ether	mg/Kg	8270D		0.286	1.29		
Bis(2-ethylhexyl) phthalate	mg/Kg	8270D	2.88	38.8	164		
Butyl benzyl phthalate	mg/Kg	8270D		286	1210		
Carbazole	mg/Kg	8270D					
	1119/119						
	ma/Ka	82700	0 1//2	1 115	1 2110 1		
Chrysene Dibenz(a,h)anthracene	mg/Kg mg/Kg	8270D 8270D	0.1442	115 0.115	<u>2110</u> 2		



# TABLE 1 SOIL QUALITY TEST RESULTS COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

	1 17		NUMBER: 4				0.00
Sample	-			NR 720 RCLs -	NR 720 RCLs -		B-23
Depth (feet)	1	Made	NR 720 RCLs	Non-Industrial	Industrial Use	1-4 Fill	4-7 Fill
Soil Type	Units	Method	for GW	Use for Direct Contact	for Direct Contact		
Soil Conditions	4		Protection (1)	Protection (1)	Protection (1)	Unsaturated	Unsaturated
Sampling Date		00700				5/5/2021	5/5/2021
Diethyl phthalate	mg/Kg	8270D		50,600	100,000		
Dimethyl phthalate	mg/Kg	8270D					
Di-n-butyl phthalate	mg/Kg	8270D	5.0333	6320	<u>82,100</u>		
Di-n-octyl phthalate	mg/Kg	8270D	0	632	<u>8210</u>		
Fluoranthene	mg/Kg	8270D	88.8778	2390	<u>30,100</u>		
Fluorene	mg/Kg	8270D	14.8299	2390	<u>30,100</u>		
Hexachlorobenzene	mg/Kg	8270D	0.0252	0.252	<u>1.15</u>		
Hexachlorobutadiene	mg/Kg	8270D		1.63	<u>7.19</u>		
Hexachlorocyclopentadiene	mg/Kg	8270D		2.55	<u>10.8</u>		
Hexachloroethane	mg/Kg	8270D		2.52	<u>11.1</u>		
Indeno[1,2,3-cd]pyrene	mg/Kg	8270D		1.15	<u>21.1</u>		
Isophorone	mg/Kg	8270D		571	<u>2420</u>		
Naphthalene	mg/Kg	8270D	0.6582	5.52	<u>24.1</u>		
Nitrobenzene	mg/Kg	8270D					
N-Nitrosodi-n-propylamine	mg/Kg	8270D		0.078	0.328		
N-Nitrosodiphenylamine	mg/Kg	8270D	0.0764	111	469		
Pentachlorophenol	mg/Kg	8270D	0.0028	1.02	3.97		
Phenanthrene	mg/Kg	8270D					
Phenol	mg/Kg	8270D	2.2946	19,000	100,000		
Pyrene	mg/Kg	8270D	54.5455	1790	22,600		
Polycyclic Aromatic Hydrocarbons (PAHs)	, 33				,,,,,,		
1-Methylnaphthalene	mg/Kg	8270D		17.6	72.7	0.19 J	0.041 J
2-Methylnaphthalene	mg/Kg	8270D		239	3010	0.067 J	0.015 J
Acenaphthene	mg/Kg	8270D		3590	45,200	0.25	0.042
Acenaphthylene	mg/Kg	8270D				0.044 J	0.0065 J
Anthracene	mg/Kg	8270D	196.9492	17,900	100,000	0.45	0.016 J
Benzo[a]anthracene	mg/Kg	8270D		1.14	21	2.5	0.068
Benzo[a]pyrene	mg/Kg	8270D	0.47	0.115	2.11	2.4	0.062
Benzo[b]fluoranthene		8270D	0.4781	1.15			
• • • • • • • • • • • • • • • • • • • •	mg/Kg			<b>+</b>	<u>21.1</u>	3.5	0.077
Benzo[g,h,i]perylene	mg/Kg	8270D		44.5		1.1	0.036 J
Benzo[k]fluoranthene	mg/Kg	8270D		11.5	<u>211</u>	1.4	0.016 J
Chrysene	mg/Kg	8270D	0.1442	115	<u>2110</u>	3.2	0.075
Dibenz(a,h)anthracene	mg/Kg	8270D		0.115	<u>2</u>	0.27	<0.0078
Fluoranthene	mg/Kg	8270D	88.8778	2390	<u>30,100</u>	7.5	0.12
Fluorene	mg/Kg	8270D	14.8299	2390	<u>30,100</u>	0.22	0.019 J
Indeno[1,2,3-cd]pyrene	mg/Kg	8270D		1.15	<u>21.1</u>	1.1	0.035 J
Naphthalene	mg/Kg	8270D	0.6582	5.52	<u>24.1</u>	0.052 J	0.028 J
Phenanthrene	mg/Kg	8270D				3.7	0.091
Pyrene	mg/Kg	8270D	54.5455	1790	<u>22,600</u>	6.2	0.15
Polychlorinated Biphenyls (PCBs)							
PCB-1016	mg/Kg	8082A	0.0094***	4.11	<u>28</u>	<0.0067	
PCB-1221	mg/Kg	8082A	0.0094***	0	<u>0.883</u>	<0.0083	
PCB-1232	mg/Kg	8082A	0.0094***	0.19	<u>0.792</u>	<0.0082	
PCB-1242	mg/Kg	8082A	0.0094***	0.235	<u>0.972</u>	<0.0062	
PCB-1248	mg/Kg	8082A	0.0094***	0.236	<u>0.975</u>	<0.0075	
PCB-1254	mg/Kg	8082A	0.0094***	0.239	<u>1</u>	0.12	
PCB-1260	mg/Kg	8082A	0.0094***	0.243	1	<0.0093	
RCRA Metals							
Arsenic	mg/Kg	6010B	0.584	0.677	<u>3</u>	4.8	
Barium	mg/Kg	6010B	164.8	15,300	100,000		
Cadmium	mg/Kg	6010B	0.752	71.1	985		
Chromium	mg/Kg	6010B	360,000*				
Copper	mg/Kg	6010B	91.6	3130	46,700		
Lead	mg/Kg	6010B	27	400	800	43	
Mercury	mg/Kg	6010B	0.208	3.13	3.13		
Nickel	mg/Kg	6010B	13.0612	1550	22,500		
Selenium	mg/Kg	6010B	0.52	391	<u>22,300</u> <u>5840</u>		
Silver	mg/Kg	6010B	0.8491	391	5840		
Zinc	+	_					
IZIIIG	mg/Kg	6010B		23,500	<u>100,000</u>		



## COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

## MILWAUKEE, WI

		JULU .	NUMBER.	10771			
Sample				NR 720 RCLs -	NR 720 RCLs -	EB-	B-23
Depth (feet)			NR 720 RCLs	Non-Industrial	Industrial Use	1-4	4-7
Soil Type	Units	Method	for GW	Use for Direct	for Direct	Fill	Fill
Soil Conditions	]		Protection (1)	Contact	Contact	Unsaturated	Unsaturated
Sampling Date	Ī			Protection (1)	Protection (1)	5/5/2021	5/5/2021
Oranochlorine Pesticides							
4,4'-DDD	mg/Kg	8081A		1.9	9.57		
4,4'-DDE	mg/Kg	8081A		2	9.38		
4,4'-DDT	mg/Kg	8081A		1.89	8.53		
Aldrin	mg/Kg	8081A		0.04	0.187		
alpha-BHC	mg/Kg	8081A		0.086	0.365		
cis-Chlordane	mg/Kg	8081A					
beta-BHC	mg/Kg	8081A		0.301	<u>1.28</u>		
delta-BHC	mg/Kg	8081A					
Dieldrin	mg/Kg	8081A		0.034	<u>0.144</u>		
Endosulfan I	mg/Kg	8081A		469	<u>7010</u>		
Endosulfan II	mg/Kg	8081A					
Endosulfan sulfate	mg/Kg	8081A					
Endrin	mg/Kg	8081A	0.1616	19	246		
Endrin aldehyde	mg/Kg	8081A	0.1616	19	<u>246</u>		
Endrin ketone	mg/Kg	8081A					
gamma-BHC (Lindane)	mg/Kg	8081A	0.0023	0.568	<u>2.54</u>		
trans-Chlordane	mg/Kg	8081A					
Heptachlor	mg/Kg	8081A	0.0662	0.14	0.654		
Heptachlor epoxide	mg/Kg	8081A	0.082	0.072	<u>0.338</u>		
Methoxychlor	mg/Kg	8081A	4.32	316	<u>4100</u>		
Toxaphene	mg/Kg	8081A	0.928	0.493	<u>2.09</u>		
Herbicides							
2,4,5-T	mg/Kg	8151A		632	<u>8210</u>		
2,4-D	mg/Kg	8151A	0.0362	699	<u>9640</u>		
2,4-DB	mg/Kg	8151A		1900	<u>24,600</u>		
Dicamba	mg/Kg	8151A	0.1553	1900	<u>24,600</u>		
Dichlorprop	mg/Kg	8151A					
Silvex (2,4,5-TP)	mg/Kg	8151A	0.055	506	<u>6,570</u>		



#### TABLE 1

#### **SOIL QUALITY TEST RESULTS**

#### COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

## MILWAUKEE, WI

	PR		NUMBER: 4	10441			
Sample	1	l		NR 720 RCLs -	NR 720 RCLs -	EB-	B-23
Depth (feet)	1		NR 720 RCLs	Non-Industrial	Industrial Use	1-4	4-7
Soil Type	Units	Method	for GW	Use for Direct	for Direct	Fill	Fill
Soil Conditions			Protection (1)	Contact	Contact	Unsaturated	Unsaturated
Sampling Date	1			Protection (1)	Protection (1)	5/5/2021	5/5/2021
Method 537 (modified) - Fluorinated Alkyl Substances	<u>'</u>	<u>'</u>				********	0,0,000
Perfluorobutanoic acid (PFBA)	ug/Kg	537					
Perfluoropentanoic acid (PFPeA)	ug/Kg	537					
Perfluorohexanoic acid (PFHxA)	ug/Kg	537					
Perfluoroheptanoic acid (PFHpA)	ug/Kg	537					
Perfluorooctanoic acid (PFOA)	ug/Kg	537		1260	16,400		
Perfluorononanoic acid (PFNA)	ug/Kg	537					
Perfluorodecanoic acid (PFDA)	ug/Kg	537					
Perfluoroundecanoic acid (PFÚnA)	ug/Kg	537					
Perfluorododecanoic acid (PFDoA)	ug/Kg	537					
Perfluorotridecanoic acid (PFTriA)	ug/Kg	537					
Perfluorotetradecanoic acid (PFTeA)	ug/Kg	537					
Perfluoro-n-hexadecanoic acid (PFHxDA)	ug/Kg	537					
Perfluoro-n-octadecanoic acid (PFODA)	ug/Kg	537					
Perfluorobutanesulfonic acid (PFBS)	ug/Kg	537					
Perfluoropentanesulfonic acid (PFPeS)	ug/Kg	537					
Perfluorohexanesulfonic acid (PFHxS)	ug/Kg	537					
Perfluoroheptanesulfonic Acid (PFHpS)	ug/Kg	537					
Perfluorooctanesulfonic acid (PFOS)	ug/Kg	537		1260	16,400		
Perfluorononanesulfonic acid (PFNS)	ug/Kg	537					
Perfluorodecanesulfonic acid (PFDS)	ug/Kg	537					
Perfluorododecanesulfonic acid (PFDoS)	ug/Kg	537					
Perfluorooctanesulfonamide (FOSA)	ug/Kg	537					
NEtFOSA	ug/Kg	537					
NMeFOSA	ug/Kg	537					
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ug/Kg	537					
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ug/Kg	537					
NMeFOSE	ug/Kg	537					
NEtFOSE	ug/Kg	537					
4:2 FTS	ug/Kg	537					
6:2 FTS	ug/Kg	537					
8:2 FTS	ug/Kg	537					
10:2 FTS	ug/Kg	537					
DONA	ug/Kg	537					

(1) From WDNR RCLs Worksheet dated December 2018

Italicized values exceed Groundwater Protection, Non-Industrial Direct Contact, or Industrial Direct-Contact RCLs

BOLD values exceed Groundwater Protection, Non-Industrial Direct Contact, or Industrial Direct-Contact RCLs

BOLD Underlined values exceed Groundwater Protection, Non-Industrial Direct Contact, or Industrial Direct-Contact RCLs

--- = Not analyzed / No established standard

HFPO-DA (GenX)

F-53B Major

F-53B Minor

J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value

ug/Kg 537

ug/Kg 537

ug/Kg 537

- F1 = Matrix spike and/or matrix spike duplicate recovery exceeds control limits
- F2 MS/MSD RPD exceeds control limits
- V Serial Dilution exceeds the control limits
- B = Compound was found in the blank and sample
- \*+ = Laboratory conrol sample and/or laboratory control sample duplicate is outside acceptance limits, high biased
- $^{\star}$  = Laboratory control sample and/or laboratory control sample duplicate is outside acceptance limits
- \*\* = Combined established standard of 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene
- \*\*\* = Combined established standard for NR 720 RCLs for groundwater protection



# TABLE 1 SOIL QUALITY TEST RESULTS COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK MILWAUKEE, WI

Sample	1	1	ı	ND 700 DOL-	ND 700 DOL-	EB-	B-24	I EB	-B-25	I EB-	-B-26	EB-B-2	27/MW-6	EB-	-B-28	I EB	-B-29	I EB-	-B-30
Depth (feet)			NR 720 RCLs	NR 720 RCLs - Non-Industrial	NR 720 RCLs - Industrial Use	1-4.5	8-10	1-4	14-15	1-4.5	8-10	1-4	18-20	2-4	8-10	2-4	8-10	2-4	8-10
Soil Type	Units	Method	for GW	Use for Direct	for Direct	FILL	Silty CLAY	FILL	Silty CLAY	FILL	FILL / Silty CLAY	FILL	Silty/Sandy CLAY	Fill	SAND & CLAY	Silty CLAY	Silty CLAY	Fill	SAND & CLAY
Soil Conditions			Protection (1)	Contact	Contact	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date				Protection (1)	Protection (1)	7/21/2021	7/21/2021	7/21/2021	7/21/2021	7/21/2021	7/21/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021
Physical Characteristics																			
Percent Moisture						10.8	10.6	18	11	3	10.6	8.3	7.8	15.4	9	9.3	11.1	18	12.1
Percent Solids						89.2	89.4	82	89	97	89.4	91.7	92.2	84.6	91	90.7	88.9	82	87.9
Volatile Organic Compounds (VOCs)																			
1,1,1,2-Tetrachloroethane	mg/Kg	8260B	0.0534	2.78	<u>12.3</u>	<0.029	<0.028	<0.043	<0.029	<0.022	<0.028	<0.027	<0.027	<0.032	<0.027	<0.028	<0.029	<0.033	<0.030
1,1,1-Trichloroethane	mg/Kg	8260B	0.1402	640	<u>640</u>	<0.023	<0.023	<0.035	<0.024	<0.018	<0.023	<0.022	<0.022	<0.026	<0.022	0.031 J	<0.024	<0.027	<0.024
1,1,2,2-Tetrachloroethane	mg/Kg	8260B	0.0002	0.81	<u>3.6</u>	<0.025	<0.024	<0.037	<0.025	<0.019	<0.024	<0.023	<0.023	<0.027	<0.023	<0.024	<0.025	<0.028	<0.026
1,1,2-Trichloroethane	mg/Kg	8260B	0.0032	1.59	<u>7.01</u>	<0.022	<0.021	<0.033	<0.022	<0.017	<0.022	<0.021	<0.020	<0.024	<0.021	<0.021	<0.022	<0.025	<0.023
1,1-Dichloroethane	mg/Kg	8260B	0.4834	5.06	<u>22.2</u>	<0.025	<0.025	<0.038	<0.025	<0.020	<0.025	<0.024	<0.024	<0.028	<0.024	<0.025	<0.025	<0.029	<0.026
1,1-Dichloroethene	mg/Kg	8260B	0.005	320	<u>1,190</u>	<0.024	<0.024	<0.036	<0.024	<0.019	<0.024	<0.023	<0.022	<0.027	<0.023	<0.024	<0.024	<0.028	<0.025
1,1-Dichloropropene	mg/Kg	8260B				<0.018	<0.018	<0.028	<0.018	<0.014	<0.018	<0.017	<0.017	<0.020	<0.018	<0.018	<0.019	<0.021	<0.019
1,2,3-Trichlorobenzene	mg/Kg	8260B	0.0540	62.6	934	<0.028	<0.028	<0.043	<0.028	<0.022	<0.028	<0.027	<0.026	<0.031	<0.027	<0.028	<0.028	<0.032	<0.030
1,2,3-Trichloropropane	mg/Kg	8260B	0.0519	0.005	<u>0.109</u>	<0.026	<0.025	<0.038	<0.026	<0.020	<0.025	<0.024	<0.024	<0.028 <0.023	<0.024	<0.025	<0.026	<0.029	<0.027
1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene	mg/Kg	8260B 8260B	0.408 1.3787**	24 219	113 210	<0.021 <0.022	<0.021 <0.022	<0.032 <0.033	<0.021 <0.022	<0.017 <0.017	<0.021 0.11	<0.020 <0.021	<0.020 <0.021	<0.023	<0.020 <0.021	<0.021 <0.022	<0.021 <0.022	<0.024 <0.025	<0.022 <0.023
1,2,4-1 rimethylpenzene 1,2-Dibromo-3-Chloropropane	mg/Kg mg/Kg	8260B	0.0002	0.008	219 0.092	<0.022	<0.022	<0.033	<0.022	<0.017	<0.11	<0.021	<0.021	<0.024	<0.021	<0.022	<0.022	<0.025	<0.023
1,2-Dibromoethane	mg/Kg	8260B	0.0002	0.008	0.092 0.221	<0.12	<0.024	<0.19	<0.024	<0.097	<0.12	<0.023	<0.022	<0.026	<0.023	<0.12	<0.12	<0.027	<0.025
1,2-Dichlorobenzene	mg/Kg	8260B	1.168	376	<u>0.221</u> <u>376</u>	<0.024	<0.024	<0.031	<0.024	<0.019	<0.024	<0.023	<0.019	<0.020	<0.023	<0.023	<0.024	<0.027	<0.023
1,2-Dichloroethane	mg/Kg	8260B	0.0028	0.652	2.87	<0.024	<0.024	<0.036	<0.021	<0.019	<0.024	<0.023	<0.013	<0.023	<0.020	<0.020	<0.021	<0.024	<0.025
1,2-Dichloropropane	mg/Kg	8260B	0.0020	3.4	15	<0.024	<0.024	<0.040	<0.027	<0.013	<0.024	<0.025	<0.025	<0.027	<0.025	<0.024	<0.027	<0.030	<0.028
1,3,5-Trimethylbenzene	mg/Kg	8260B	1.3787**	182	182	<0.023	<0.023	<0.035	<0.024	<0.018	0.035 J	<0.022	<0.022	<0.026	<0.022	<0.023	<0.024	<0.027	<0.024
1,3-Dichlorobenzene	mg/Kg	8260B	1.1528	297	297	<0.025	<0.024	<0.037	<0.025	<0.019	<0.024	<0.023	<0.022	<0.027	<0.024	<0.024	<0.025	<0.028	<0.024
1,3-Dichloropropane	mg/Kg	8260B	0.0003	2.37	10.6	<0.022	<0.022	<0.034	<0.022	<0.018	<0.022	<0.021	<0.021	<0.025	<0.021	<0.022	<0.022	<0.026	<0.023
1,4-Dichlorobenzene	mg/Kg	8260B	0.144	3.74	16.4	<0.023	<0.022	<0.034	<0.023	<0.018	<0.022	<0.021	<0.021	<0.025	<0.021	<0.022	<0.023	<0.026	<0.023
2,2-Dichloropropane	mg/Kg	8260B		191	<u>191</u>	<0.027	<0.027	<0.041	<0.028	<0.022	<0.027	<0.026	<0.026	<0.030	<0.026	<0.027	<0.028	<0.031	<0.029
2-Chlorotoluene	mg/Kg	8260B		907	907	<0.019	<0.019	<0.029	<0.019	<0.015	<0.019	<0.018	<0.018	<0.021	<0.019	<0.019	<0.019	<0.022	<0.020
4-Chlorotoluene	mg/Kg	8260B		253	<u>253</u>	<0.022	<0.021	<0.033	<0.022	<0.017	<0.021	<0.020	<0.020	<0.024	<0.021	<0.021	<0.022	<0.025	<0.023
Benzene	mg/Kg	8260B	0.0051	1.6	<u>7.07</u>	<0.0090	<0.0089	<0.014	<0.0090	<0.0071	0.032	<0.0085	<0.0084	<0.010	<0.0086	<0.0089	<0.0091	<0.010	<0.0094
Bromobenzene	mg/Kg	8260B		342	<u>679</u>	<0.022	<0.022	<0.033	<0.022	<0.017	<0.022	<0.021	<0.020	<0.024	<0.021	<0.022	<0.022	<0.025	<0.023
Bromochloromethane	mg/Kg	8260B		216	<u>906</u>	<0.026	<0.026	<0.040	<0.027	<0.021	<0.026	<0.025	<0.025	<0.029	<0.025	<0.026	<0.027	<0.030	<0.028
Bromodichloromethane	mg/Kg	8260B	0.0003	0.418	<u>1.83</u>	<0.023	<0.023	<0.035	<0.023	<0.018	<0.023	<0.022	<0.021	<0.025	<0.022	<0.023	<0.023	<0.026	<0.024
Bromoform	mg/Kg	8260B	0.0023	25.4	113	<0.030	<0.030	<0.045	<0.030	<0.023	<0.030	<0.028	<0.028	<0.033	<0.029	<0.029	<0.030	<0.034	<0.031
Bromomethane	mg/Kg	8260B	0.0051	9.6	43	<0.049	<0.049 <0.023	<0.074	<0.049	<0.039	<0.049	<0.047 <0.022	<0.046	<0.054	<0.047	<0.048 <0.023	<0.049	<0.056 <0.027	<0.051
Carbon tetrachloride	mg/Kg	8260B 8260B	0.0039	0.916 370	4.03 761	<0.024 <0.024	<0.023	<0.036 <0.036	<0.024 <0.024	<0.019 <0.019	<0.023 <0.024	<0.022	<0.022 <0.022	<0.026 <0.026	<0.023 <0.023	<0.023	<0.024 <0.024	<0.027	<0.025 <0.025
Chlorobenzene Chloroethane	mg/Kg mg/Kg	8260B	0.2266	2,120	2,120	<0.024	<0.024	<0.047	<0.024	<0.019	<0.024	<0.023	<0.022	<0.026	<0.023	<0.023	<0.024	<0.027	<0.025
Chloroform	mg/Kg	8260B	0.0033	0.454	1.98	<0.023	<0.023	<0.034	<0.023	<0.018	<0.023	<0.022	<0.021	<0.025	<0.022	<0.022	<0.023	<0.026	<0.024
Chloromethane	mg/Kg	8260B	0.0155	159	669	<0.020	<0.020	<0.030	<0.020	<0.016	<0.020	<0.019	<0.018	<0.022	<0.019	<0.019	<0.020	<0.023	<0.024
cis-1,2-Dichloroethene	mg/Kg	8260B	0.0412	156	2,340	<0.025	<0.025	<0.038	<0.025	<0.020	<0.025	<0.024	<0.023	0.55	<0.024	<0.025	<0.025	<0.029	<0.026
cis-1,3-Dichloropropene	mg/Kg	8260B	0.0003	1,210	1,210	<0.026	<0.025	<0.039	<0.026	<0.020	<0.025	<0.024	<0.024	<0.028	<0.025	<0.025	<0.026	<0.029	<0.027
Dibromochloromethane	mg/Kg	8260B	0.032	8.28	38.9	<0.030	<0.030	<0.045	<0.030	<0.024	<0.030	<0.029	<0.028	<0.033	<0.029	<0.030	<0.030	<0.035	<0.031
Dibromomethane	mg/Kg	8260B		34	143	<0.017	<0.016	<0.025	<0.017	<0.013	<0.017	<0.016	<0.016	<0.018	<0.016	<0.016	<0.017	<0.019	<0.017
Dichlorodifluoromethane	mg/Kg	8260B	3.0863	126	530	<0.042	<0.041	<0.063	<0.042	< 0.033	<0.041	<0.039	<0.039	<0.046	<0.040	<0.041	<0.042	<0.048	<0.043
Ethylbenzene	mg/Kg	8260B	1.57	8.02	<u>35.4</u>	<0.011	<0.011	<0.017	<0.011	<0.0089	0.029	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011	<0.013	<0.012
Hexachlorobutadiene	mg/Kg	8260B		1.63	<u>7.19</u>	<0.028	<0.027	<0.041	<0.028	<0.022	<0.027	<0.026	<0.026	<0.030	<0.026	<0.027	<0.028	<0.032	<0.029
Isopropyl ether	mg/Kg	8260B		2,260	<u>2,260</u>	<0.017	<0.017	<0.026	<0.017	<0.013	<0.017	<0.016	<0.016	<0.019	<0.016	<0.017	<0.017	<0.020	<0.018
Isopropylbenzene	mg/Kg	8260B		268	<u>268</u>	<0.024	<0.023	<0.036	<0.024	<0.019	<0.023	<0.022	<0.022	<0.026	<0.023	<0.023	<0.024	<0.027	<0.025
Methyl tert-butyl ether	mg/Kg	8260B	0.027	63.8	<u>282</u>	<0.024	<0.024	<0.037	<0.024	<0.019	<0.024	<0.023	<0.023	<0.027	<0.023	<0.024	<0.024	<0.028	<0.025
Methylene Chloride	mg/Kg	8260B	0.0026	61.8	<u>1,150</u>	<0.10	<0.099	<0.15	<0.10	<0.079	<0.10	<0.095	<0.094	<0.11	<0.096	<0.099	<0.10	<0.12	<0.11
Naphthalene	mg/Kg	8260B	0.658182	5.52	<u>24.10</u>	0.028 J	<0.020	<0.031	<0.021	<0.016	0.13	<0.020	<0.019	<0.023	<0.020	<0.020	<0.021	<0.024	<0.022
n-Butylbenzene	mg/Kg	8260B		108	108	<0.024	<0.024	<0.036	<0.024	<0.019	<0.024	<0.023	<0.022	<0.027	<0.023	<0.024	<0.024	<0.027	<0.025
N-Propylbenzene	mg/Kg	8260B		264	<u>264</u>	<0.026	<0.025	<0.038	<0.026	<0.020	<0.025	<0.024	<0.024	<0.028	<0.024	<0.025	<0.026	<0.029	<0.027
p-Isopropyltoluene	mg/Kg	8260B		162	<u>162</u>	<0.022	<0.022	<0.034	<0.022	<0.018	<0.022	<0.021	<0.021	<0.025	<0.021	<0.022	<0.022	<0.026	<0.023
sec-Butylbenzene	mg/Kg	8260B	0.22	145	145 007	<0.025	<0.024	<0.037	<0.025	<0.019	<0.024	<0.023	<0.023	<0.027	<0.023	<0.024	<0.025	<0.028	<0.026
Styrene	mg/Kg	8260B	0.22	867	<u>867</u>	<0.024	<0.024	<0.036	<0.024	<0.019	<0.024	<0.023	<0.022	<0.026	<0.023	<0.023	<0.024	<0.027	<0.025
tert-Butylbenzene Tetraphlaraethana	mg/Kg	8260B	0.0045	183	<u>183</u>	<0.025	<0.024	<0.037	<0.025	<0.019	<0.024	<0.023	<0.023	<0.027	<0.023	<0.024	<0.025	<0.028	<0.026
Tetrachloroethene	mg/Kg	8260B	0.0045	33	<u>145</u>	<0.023	<0.023	<0.034	<0.023	<0.018	<0.023	<0.022	<0.021	<0.025	<0.022	<0.022	<0.023	0.13	<0.024
Toluene	mg/Kg	8260B	1.1072	818	818 1950	<0.0091	<0.0090	0.019 J	<0.0091	<0.0071	0.16	<0.0086	<0.0085	<0.010	<0.0087	<0.0089	<0.0091	<0.010	<0.0095
trans-1,2-Dichloroethene	mg/Kg	8260B	0.0626	1560	1850 4.540	<0.022	<0.021	<0.033	<0.022	<0.017	<0.021	<0.020	<0.020	<0.024	<0.021	<0.021	<0.022	<0.025	<0.023
trans-1,3-Dichloropropene	mg/Kg	8260B	0.0026	1,510	1,510	<0.022	<0.022	<0.034	<0.022 <0.010	<0.018	<0.022	<0.021	<0.021	<0.025	<0.021	<0.022 <b>87</b>	<0.022	<0.026	<0.023
Trichloroethene Trichlorofluoromethano	mg/Kg	8260B	0.0036	1.3	8.41 4.220	<0.010	<0.010	0.36		<0.0080	0.062	<0.0096	<0.0094	<b>5.4</b> <0.029	<0.0097		0.026 J	0.90	<0.011
Trichlorofluoromethane Vinyl chlorido	mg/Kg	8260B	0.0001	1,230	1,230	<0.026	<0.026	<0.040 <0.024	<0.027	<0.021	<0.026	<0.025	<0.025	<0.029 <0.018	<0.025	<0.026	<0.027	<0.030	<0.028
Vinyl chloride	mg/Kg	8260B	0.0001	0.067	2.08 1212	<0.016	<0.016		<0.016	<0.013	<0.016	<0.015	<0.015		<0.015	<0.016	<0.016	<0.019	<0.017
Xylenes, Total	mg/Kg	8260B	3.96	1,212	<u>1212</u>	<0.014	<0.013	<0.020	<0.014	<0.011	0.39	<0.013	<0.013	<0.015	<0.013	<0.013	<0.014	<0.016	<0.014

# TABLE 1 SOIL QUALITY TEST RESULTS COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK MILWAUKEE, WI

									PROJECT NOW										
Sample	_			NR 720 RCLs -	NR 720 RCLs -	EB-			B-25		-B-26		-27/MW-6		-B-28		-B-29		-B-30
Depth (feet)	_		NR 720 RCLs	Non-Industrial	Industrial Use	1-4.5	8-10	1-4	14-15	1-4.5	8-10	1-4	18-20	2-4	8-10	2-4	8-10	2-4	8-10
Soil Type	Units	Method	for GW	Use for Direct	for Direct	FILL	Silty CLAY	FILL	Silty CLAY	FILL	FILL / Silty CLAY	FILL	Silty/Sandy CLAY	Fill	SAND & CLAY	Silty CLAY	Silty CLAY	Fill	SAND & CLAY
Soil Conditions	7		Protection (1)	Contact	Contact	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date	7			Protection (1)	Protection (1)	7/21/2021	7/21/2021	7/21/2021	7/21/2021	7/21/2021	7/21/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021
Method 8260B - Volatile Organic Compoounds - TCLP	•	_				172172021	772 17202 1	.,,	772 17202 1	172172021	172172021	772072021	1/20/2021	172072021	112012021	172072021	172072021	1/20/2021	112012021
,		8260B	T	T					I	Г				I	T	Ι	T		T
1,1-Dichloroethene	mg/L																		
1,2-Dichloroethane	mg/L	8260B																	
Benzene	mg/L	8260B																	
Carbon tetrachloride	mg/L	8260B																	
Chlorobenzene	mg/L	8260B																	
Chloroform	mg/L	8260B																	
Methyl Ethyl Ketone	mg/L	8260B																	
Tetrachloroethene	mg/L	8260B																	
Trichloroethene	mg/L	8260B																	
Vinyl Chloride	mg/L	8260B																	
	IIIg/L	0200B																	
Semivolatile Organic Compounds (SVOCs)	1		1 0 100	1				I	I					ı	1	ı	1		T
1,2,4-Trichlorobenzene	mg/Kg	8270D	0.408	24	<u>113</u>					<0.036									
1,2-Dichlorobenzene	mg/Kg	8270D	1.168	376	<u>376</u>					<0.040									
1,3-Dichlorobenzene	mg/Kg	8270D	1.1528	297	<u>297</u>					<0.038									
1,4-Dichlorobenzene	mg/Kg	8270D	0.144	3.74	<u>16.4</u>					< 0.043									
1-Methylnaphthalene	mg/Kg	8270D		17.6	72.7					<0.0082									
2,2'-oxybis[1-chloropropane]	mg/Kg	8270D								<0.039									
2,4,5-Trichlorophenol	mg/Kg	8270D		6320	82,100					<0.077									
2,4,6-Trichlorophenol	mg/Kg	8270D		49.3	209					<0.12									
2.4-Dichlorophenol										<0.080			+	1	+		+		
,	mg/Kg	8270D		190	<u>2460</u>														
2,4-Dimethylphenol	mg/Kg	8270D		1260	<u>16,400</u>					<0.13									
2,4-Dinitrophenol	mg/Kg	8270D		126	<u>1640</u>					<0.59									
2,4-Dinitrotoluene	mg/Kg	8270D	0.0001	1.74	<u>7.37</u>					<0.054									
2,6-Dinitrotoluene	mg/Kg	8270D	0.0001	0.363	<u>1.54</u>					<0.066									
2-Chloronaphthalene	mg/Kg	8270D		4780	60,300					<0.037									
2-Chlorophenol	mg/Kg	8270D		391	5,840					<0.058									
2-Methylnaphthalene	mg/Kg	8270D		239	3010					<0.0062									
2-Methylphenol	mg/Kg	8270D		3160	41,000					<0.054									
2-Nitroaniline	mg/Kg	8270D		627	8010					<0.045									
2-Nitrophenol	mg/Kg	8270D								<0.080									
											<u> </u>		-		+		<del> </del>	+	
3 & 4 Methylphenol	mg/Kg	8270D		9480**	<u>123,100**</u>					<0.056									
3,3'-Dichlorobenzidine	mg/Kg	8270D								<0.047									
3-Nitroaniline	mg/Kg	8270D								<0.10									
4,6-Dinitro-2-methylphenol	mg/Kg	8270D								<0.27									
4-Bromophenyl phenyl ether	mg/Kg	8270D								<0.045									
4-Chloro-3-methylphenol	mg/Kg	8270D		6320	82,100					<0.11									
4-Chloroaniline	mg/Kg	8270D		2.71	11.5					<0.16									
4-Chlorophenyl phenyl ether	mg/Kg	8270D								< 0.039									
4-Nitroaniline	mg/Kg	8270D		27.1	115					<0.14									
4-Nitrophenol	mg/Kg	8270D								<0.32									
·	+	8270D		3590	45,200					<0.061					+		<u> </u>		
Acenaphthylana	mg/Kg			3030	<u>45,∠00</u>														
Acenaphthylene	mg/Kg	8270D		47.000						<0.0045							<del></del>		
Anthracene	mg/Kg	8270D	<u> </u>	17,900	<u>100,000</u>					<0.0056									
Benzo[a]anthracene	mg/Kg	8270D		1.14	<u>21</u>					0.0080 J									
Benzo[a]pyrene	mg/Kg	8270D	0.47	0.115	<u>2.11</u>					0.0073 J									
Benzo[b]fluoranthene	mg/Kg	8270D	0.4781	1.15	<u>21.1</u>					0.0097 J									
Benzo[g,h,i]perylene	mg/Kg	8270D								<0.011									
Benzo[k]fluoranthene	mg/Kg	8270D		11.5	211					<0.010									
Benzoic acid	mg/Kg	8270D		100,000	100,000					<0.34									
Benzyl alcohol	mg/Kg	8270D		6320	<u>82,100</u>					<0.34									
Bis(2-chloroethoxy)methane			+	190						<0.034			+		-			-	
	mg/Kg	8270D		+	2460 4 20														
Bis(2-chloroethyl)ether	mg/Kg	8270D		0.286	<u>1.29</u>					<0.051									
Bis(2-ethylhexyl) phthalate	mg/Kg	8270D	2.88	38.8	<u>164</u>					<0.062									
Butyl benzyl phthalate	mg/Kg	8270D		286	<u>1210</u>					<0.064									
Carbazole	mg/Kg	8270D								<0.084									
Chrysene	mg/Kg	8270D	0.1442	115	2110					<0.0092									
Dibenz(a,h)anthracene	mg/Kg	8270D		0.115	2					<0.0065									
		8270D		73	1040					<0.040									
Dibenzofuran	mg/Kg	1 02/00		1 13	1040					1 70.040			1	1	1	I	1	1	1



# TABLE 1 SOIL QUALITY TEST RESULTS COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK MILWAUKEE, WI

						FR	D 04		D 05		D 20	FD D	57/84V8/ C		D 00	- FR	D 00		D 20
Sample Double (fact)	_			NR 720 RCLs -	NR 720 RCLs -	1-4.5	- <b>B-24</b> 8-10	1-4	<b>B-25</b> 14-15	1-4.5	8-B-26 8-10	1-4	27/MW-6 18-20	2-4	<b>-B-28</b> 8-10	2-4	<b>B-29</b> 8-10	2-4	8-10
Depth (feet)	—		NR 720 RCLs	Non-Industrial	Industrial Use									Z-4 Fill				Z-4 Fill	SAND & CLAY
Soil Type	Units	Method	for GW	Use for Direct	for Direct Contact	FILL	Silty CLAY	FILL	Silty CLAY	FILL	FILL / Silty CLAY	FILL	Silty/Sandy CLAY		SAND & CLAY	Silty CLAY	Silty CLAY		
Soil Conditions			Protection (1)	Contact Protection (1)	Protection (1)	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date				, ,	, ,	7/21/2021	7/21/2021	7/21/2021	7/21/2021	7/21/2021	7/21/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021
Diethyl phthalate	mg/Kg	_		50,600	100,000					<0.057									
Dimethyl phthalate	mg/Kg	8270D								<0.044									
Di-n-butyl phthalate	mg/Kg	8270D	5.0333	6320	<u>82,100</u>					<0.051									
Di-n-octyl phthalate	mg/Kg	8270D	0	632	<u>8210</u>					<0.055									
Fluoranthene	mg/Kg	8270D	88.8778	2390	<u>30,100</u>					0.016 J									
Fluorene	mg/Kg	8270D	14.8299	2390	<u>30,100</u>					<0.0047									
Hexachlorobenzene	mg/Kg	8270D	0.0252	0.252	<u>1.15</u>					<0.0078									
Hexachlorobutadiene	mg/Kg	8270D		1.63	<u>7.19</u>					<0.053									
Hexachlorocyclopentadiene	mg/Kg	8270D		2.55	<u>10.8</u>					<0.19									
Hexachloroethane	mg/Kg	8270D		2.52	<u>11.1</u>					<0.051									
Indeno[1,2,3-cd]pyrene	mg/Kg	8270D		1.15	<u>21.1</u>					<0.0088									
Isophorone	mg/Kg	8270D		571	<u>2420</u>					<0.038									
Naphthalene	mg/Kg	8270D	0.6582	5.52	<u>24.1</u>					<0.0052									
Nitrobenzene	mg/Kg	8270D								<0.0084				_					
N-Nitrosodi-n-propylamine	mg/Kg	8270D		0.078	0.328					<0.041									
N-Nitrosodiphenylamine	mg/Kg	8270D	0.0764	111	469					<0.040									
Pentachlorophenol	mg/Kg	8270D	0.0028	1.02	3.97					<0.54									
Phenanthrene	mg/Kg	8270D								0.013 J									
Phenol	mg/Kg	8270D	2.2946	19,000	100,000					<0.075									
Pyrene	mg/Kg	8270D	54.5455	1790	22,600					0.011 J									
Polycyclic Aromatic Hydrocarbons (PAHs)	19,9	1 02.02	0.110.100		,														
1-Methylnaphthalene	mg/Kg	8270D		17.6	72.7	0.087	<0.0088	0.29	0.0097 J		0.17	<0.0085	<0.0085	0.039 J	<0.0087	<0.0088	<0.0087	<0.0098	<0.0090
2-Methylnaphthalene	mg/Kg	8270D		239	3010	0.078	<0.0066	0.36	0.013 J		0.21	<0.0064	0.0087 J	0.041 J	0.025 J	<0.0066	<0.0065	<0.0074	0.0078 J
Acenaphthene	mg/Kg	8270D		3590	45,200	0.28	<0.0065	0.021 J	0.023 J		<0.0067	<0.0063	0.0079 J	0.0095 J	<0.0064	<0.0065	<0.0064	<0.0074	<0.0066
Acenaphthylene	mg/Kg	8270D				0.012 J	<0.0003	0.0065 J	<0.0049		<0.0007	<0.0005	<0.0046	<0.0051	<0.0047	<0.0048	<0.0047	<0.0072	<0.0048
Anthracene	mg/Kg	8270D	196.9492	17,900	100,000	0.55	<0.0047	0.0003	0.049		0.011 J	<0.0040	0.0074 J	<0.0051	<0.0047	<0.0060	0.0047 0.0077 J	<0.0053	0.0048 0.0067 J
		8270D	130.3432	1.14	21	1.3	<0.0048	0.032	0.049		0.038	0.0038 0.011 J	<0.0074 3	<0.0052	<0.0048	<0.0049	<0.0048	<0.0054	<0.0049
Benzo[a]anthracene	mg/Kg	8270D	0.47	0.115	2.11			0.13	0.038				<del> </del>				<0.0048		+
Benzo[a]pyrene	mg/Kg					1.4	<0.0069				0.035 J	<0.0067	<0.0067	<0.0075	<0.0069	<0.0070		<0.0078	<0.0071
Benzo[b]fluoranthene	mg/Kg	8270D	0.4781	1.15	<u>21.1</u>	1.9	<0.0077	0.23	0.050		0.041	<0.0075	<0.0075	<0.0084	<0.0077	<0.0078	<0.0077	<0.0087	<0.0079
Benzo[g,h,i]perylene	mg/Kg	8270D				0.54	<0.012	0.052	0.022 J		0.012 J	<0.011	0.017 J	<0.013	0.020 J	<0.012	<0.011	<0.013	0.013 J
Benzo[k]fluoranthene	mg/Kg	8270D		11.5	<u>211</u>	0.44	<0.011	0.063	0.025 J		0.023 J	<0.010	<0.010	<0.011	<0.011	<0.011	<0.010	<0.012	<0.011
Chrysene	mg/Kg	8270D	0.1442	115	<u>2110</u>	1.3	<0.0098	0.27	0.056		0.042	0.035	0.025 J	0.13	0.040	0.018 J	0.024 J	<0.011	0.027 J
Dibenz(a,h)anthracene	mg/Kg	8270D		0.115	<u>2</u>	0.17	<0.0069	0.031 J	<0.0071		0.011 J	<0.0067	<0.0067	<0.0075	<0.0069	<0.0070	<0.0069	<0.0077	<0.0071
Fluoranthene	mg/Kg	8270D	88.8778	2390	<u>30,100</u>	3.8	<0.0067	0.21	0.16		0.048	0.042	0.0090 J	0.064	<0.0066	<0.0067	<0.0066	<0.0074	0.010 J
Fluorene	mg/Kg	8270D	14.8299	2390	<u>30,100</u>	0.20	<0.0050	0.018 J	0.031 J		<0.0052	<0.0049	0.0059 J	0.013 J	<0.0050	<0.0051	<0.0050	<0.0056	<0.0052
Indeno[1,2,3-cd]pyrene	mg/Kg	8270D		1.15	<u>21.1</u>	0.53	<0.0093	0.049	0.019 J		0.016 J	<0.0090	<0.0090	<0.010	<0.0093	<0.0093	<0.0092	<0.010	<0.0095
Naphthalene	mg/Kg	8270D	0.6582	5.52	<u>24.1</u>	0.091	< 0.0055	0.20	0.029 J		0.16	<0.0054	< 0.0053	0.025 J	0.012 J	<0.0055	<0.0055	<0.0062	<0.0057
Phenanthrene	mg/Kg	8270D				3.6	<0.0050	0.52	0.19		0.12	0.027 J	0.036	0.17	0.076	0.0074 J	0.016 J	0.0062 J	0.028 J
Pyrene	mg/Kg	8270D	54.5455	1790	22,600	3.8	<0.0071	0.25	0.11		0.058	0.028 J	0.014 J	0.078	0.023 J	0.0082 J	0.0087 J	<0.0080	0.019 J
Polychlorinated Biphenyls (PCBs)							•												
PCB-1016	mg/Kg	8082A	0.0094***	4.11	28					< 0.0073									
PCB-1221	mg/Kg	8082A	0.0094***	0	0.883					< 0.0073									
PCB-1232	mg/Kg	20004	0.000.4***	0.19	0.792					<0.0051									
PCB-1242	mg/Kg		0.0094***	0.235	0.972					<0.0073									
PCB-1248	mg/Kg		0.0094***	0.236	0.975					<0.0089									
PCB-1254	mg/Kg		0.0094***	0.239	1					<0.0063									
PCB-1260	mg/Kg	_	0.0094***	0.243	1					<0.0003									
RCRA Metals	ı iligirig	1 000271	0.0037	V.E-70						-0.0071							·		
Arsenic	ma/Ka	6010B	0.584	0.677	2		T	T	1 .	1	1 .	2.7	I I	4.3	T	3.7	I	2.8	
Barium		6010B	164.8	15,300	<u>ა</u> 100,000		1	-				24	t	130		22		58	
Cadmium			0.752	71.1								0.14 J		0.16 J		0.089 J			
		6010B	+	1	<u>985</u>			-					<del> </del>					0.15 J	
Chromium	mg/Kg		360,000*	2420	46 700							13		23		13		24	
Copper	mg/Kg		91.6	3130	<u>46,700</u>														
Lead	mg/Kg		27	400	<u>800</u>							7.5 B		22 B		8.7 B		8.6 B	
Mercury	mg/Kg	1	0.208	3.13	<u>3.13</u>							0.0082 J		0.029		0.0096 J		0.020	
Nickel	mg/Kg		13.0612	1550	<u>22,500</u>														-
Selenium	mg/Kg	6010B	0.52	391	<u>5840</u>							<0.60		<0.69		<0.60		1.6	
Silver	mg/Kg	6010B	0.8491	391	<u>5840</u>							0.20 J B		0.21 J B		0.17 J B		0.28 J B	
Zinc	mg/Kg			23,500	100,000														
	. 5																		



## COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

## MILWAUKEE, WI

									I KOSECT NON										
Sample				NR 720 RCLs -	NR 720 RCLs -	EB-			B-25		-B-26		27/MW-6		·B-28		B-29		3-B-30
Depth (feet)			NR 720 RCLs	Non-Industrial	Industrial Use	1-4.5	8-10	1-4	14-15	1-4.5	8-10	1-4	18-20	2-4	8-10	2-4	8-10	2-4	8-10
Soil Type	Units	Method		Use for Direct	for Direct	FILL	Silty CLAY	FILL	Silty CLAY	FILL	FILL / Silty CLAY	FILL	Silty/Sandy CLAY	Fill	SAND & CLAY	Silty CLAY	Silty CLAY	Fill	SAND & CLAY
Soil Conditions			Protection (1)	Contact	Contact	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date				Protection (1)	Protection (1)	7/21/2021	7/21/2021	7/21/2021	7/21/2021	7/21/2021	7/21/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021
Oranochlorine Pesticides																			
4,4'-DDD	mg/Kg	8081A		1.9	9.57					<0.00093					_				
4,4'-DDE	mg/Kg	8081A		2	9.38					<0.00089									
4,4'-DDT	mg/Kg	8081A		1.89	<u>8.53</u>					<0.00082									
Aldrin	mg/Kg	8081A		0.04	<u>0.187</u>					<0.0012									
alpha-BHC	mg/Kg	8081A		0.086	0.365					<0.00098									
cis-Chlordane	mg/Kg	8081A								<0.0014									
beta-BHC	mg/Kg	8081A		0.301	<u>1.28</u>					<0.00093									
delta-BHC	mg/Kg	8081A								<0.00083									
Dieldrin	mg/Kg	8081A		0.034	<u>0.144</u>					<0.00091					-				
Endosulfan I	mg/Kg	8081A		469	<u>7010</u>					<0.00094									
Endosulfan II	mg/Kg	8081A								<0.00095									
Endosulfan sulfate	mg/Kg	8081A								<0.00096					-				
Endrin	mg/Kg	8081A	0.1616	19	<u>246</u>					<0.00088									
Endrin aldehyde	mg/Kg	8081A	0.1616	19	<u>246</u>					<0.00099									
Endrin ketone	mg/Kg	8081A								<0.00084					-				
gamma-BHC (Lindane)	mg/Kg	8081A	0.0023	0.568	<u>2.54</u>					<0.00086									
trans-Chlordane	mg/Kg	8081A								<0.0010									
Heptachlor	mg/Kg	8081A	0.0662	0.14	<u>0.654</u>					<0.00094									
Heptachlor epoxide	mg/Kg	8081A	0.082	0.072	<u>0.338</u>					<0.00093									
Methoxychlor	mg/Kg	8081A	4.32	316	<u>4100</u>					<0.0011									
Toxaphene	mg/Kg	8081A	0.928	0.493	<u>2.09</u>					<0.0069									
Herbicides																			
2,4,5-T	mg/Kg	8151A		632	<u>8210</u>					<0.013									
2,4-D	mg/Kg	8151A	0.0362	699	<u>9640</u>					<0.077									
2,4-DB	mg/Kg	8151A		1900	<u>24,600</u>					0.055 J									
Dicamba	mg/Kg	8151A	0.1553	1900	24,600					<0.0077									
Dichlorprop	mg/Kg	8151A					-			<0.018									
Silvex (2,4,5-TP)	mg/Kg	8151A	0.055	506	6,570					<0.0077					-				



## COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK MII WAUKFF. WI

IAIIFAA	AUNLL, WI
PROJECT	NUMBER: 40441

[O ].						FD	D 24		D 25		D 26	FDD	07/MALC		D 20	- FD	20	- го	1 D 20
Sample	-			NR 720 RCLs -	NR 720 RCLs -	EB-		-	B-25		·B-26		27/MW-6		-B-28		3-29	-	3-B-30
Depth (feet)	<b>-</b>	1	NR 720 RCLs	Non-Industrial	Industrial Use	1-4.5	8-10	1-4	14-15	1-4.5	8-10	1-4	18-20	2-4	8-10	2-4	8-10	2-4	8-10
Soil Type	Units	Method		Use for Direct	for Direct	FILL	Silty CLAY	FILL	Silty CLAY	FILL	FILL / Silty CLAY	FILL	Silty/Sandy CLAY	Fill	SAND & CLAY	Silty CLAY	Silty CLAY	Fill	SAND & CLAY
Soil Conditions	4		Protection (1)	Contact Protection (1)	Contact Protection (1)	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date				Fiotection (1)	Fiolection (1)	7/21/2021	7/21/2021	7/21/2021	7/21/2021	7/21/2021	7/21/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021
Method 537 (modified) - Fluorinated Alkyl Substances																			
Perfluorobutanoic acid (PFBA)	ug/Kg											<0.048		0.078 J		<0.047		<0.053	
Perfluoropentanoic acid (PFPeA)	ug/Kg	537										<0.000043		<0.048		<0.042		<0.047	
Perfluorohexanoic acid (PFHxA)	ug/Kg	537										<0.032		<0.036		<0.032		<0.035	
Perfluoroheptanoic acid (PFHpA)	ug/Kg	537										<0.040		<0.044		<0.039		<0.043	
Perfluorooctanoic acid (PFOA)	ug/Kg	537		1260	<u>16,400</u>							<0.055		0.063 J I		<0.054		<0.061	
Perfluorononanoic acid (PFNA)	ug/Kg	537										<0.023		<0.026		<0.023		<0.025	
Perfluorodecanoic acid (PFDA)	ug/Kg	537										< 0.050		< 0.056		<0.049		<0.055	
Perfluoroundecanoic acid (PFUnA)	ug/Kg	537										<0.044		<0.049		<0.043		<0.048	
Perfluorododecanoic acid (PFDoA)	ug/Kg	537										<0.031		<0.035		<0.031		<0.034	
Perfluorotridecanoic acid (PFTriA)	ug/Kg	537										<0.022		<0.024		<0.022		<0.024	
Perfluorotetradecanoic acid (PFTeA)	ug/Kg	537										< 0.039		<0.043	-	<0.038		<0.042	
Perfluoro-n-hexadecanoic acid (PFHxDA)	ug/Kg	537										<0.040		<0.044		< 0.039		< 0.043	
Perfluoro-n-octadecanoic acid (PFODA)	ug/Kg	537										<0.069		<0.077		<0.068		< 0.075	
Perfluorobutanesulfonic acid (PFBS)	ug/Kg	537										<0.040		<0.044		< 0.039		< 0.043	
Perfluoropentanesulfonic acid (PFPeS)	ug/Kg	537										< 0.039		< 0.043		<0.038		<0.042	
Perfluorohexanesulfonic acid (PFHxS)	ug/Kg	537										<0.030		<0.034		<0.030		< 0.033	
Perfluoroheptanesulfonic Acid (PFHpS)	ug/Kg	537										<0.051		< 0.057		<0.050		< 0.056	
Perfluorooctanesulfonic acid (PFOS)	ug/Kg			1260	16,400							<0.045		0.10 J		<0.044		<0.049	
Perfluorononanesulfonic acid (PFNS)	ug/Kg											<0.030		<0.034		<0.030		<0.033	
Perfluorodecanesulfonic acid (PFDS)	ug/Kg	537										<0.054		<0.061		< 0.053		< 0.059	
Perfluorododecanesulfonic acid (PFDoS)	ug/Kg											<0.049		<0.055		<0.048		< 0.054	
Perfluorooctanesulfonamide (FOSA)	ug/Kg											<0.034		<0.038		<0.034		<0.038	
NEtFOSA	ug/Kg											<0.049		<0.055		<0.048		< 0.054	
NMeFOSA	ug/Kg											<0.051		<0.057		<0.050		< 0.056	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ug/Kg											<0.050		<0.056		<0.049		<0.055	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ug/Kg											<0.024		<0.027		<0.024		<0.026	
NMeFOSE	ug/Kg											<0.029		<0.033		<0.029		<0.032	
NEtFOSE	ug/Kg	537										<0.049		<0.055		<0.048		<0.054	
4:2 FTS	ug/Kg											<0.053		<0.059	<u> </u>	<0.052		<0.058	
6:2 FTS	ug/Kg											<0.028		<0.031		<0.028		<0.031	
8:2 FTS	ug/Kg											<0.036		<0.041		<0.026		<0.040	
10:2 FTS	ug/Kg											<0.040		<0.044		<0.039		<0.043	
DONA	ug/Kg											<0.040		<0.045		<0.040		<0.045	
HFPO-DA (GenX)	ug/Kg											<0.041		<0.043		<0.040		<0.047	
F-53B Major	ug/Kg	537										<0.045		<0.040		<0.042		<0.047	
F-53B Minor	ug/Kg											<0.030		<0.036		<0.030		<0.040	
ר-טטם ועווווטו	l ug/ng	557										<0.03Z		<b>\U.U3U</b>		\U.U3Z		\U.U33	

(1) From WDNR RCLs Worksheet dated December 2018

Italicized values exceed Groundwater Protection, Non-Industrial Direct Contact, or Industrial Direct-Contact RCLs

BOLD values exceed Groundwater Protection, Non-Industrial Direct Contact, or Industrial Direct-Contact RCLs

 $\underline{\textbf{BOLD Underlined}} \ \ \text{values} \ \ \underline{\textbf{exceed Groundwater Protection}}, \\ \textbf{Non-Industrial Direct Contact}, \\ \textbf{or Industrial Direct-Contact}, \\ \textbf{RCLs}$ 

--- = Not analyzed / No established standard

J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value

F1 = Matrix spike and/or matrix spike duplicate recovery exceeds control limits

F2 MS/MSD RPD exceeds control limits

V Serial Dilution exceeds the control limits

B = Compound was found in the blank and sample

\*+ = Laboratory conrol sample and/or laboratory control sample duplicate is outside acceptance limits, high biased

\* = Laboratory control sample and/or laboratory control sample duplicate is outside acceptance limits

\*\* = Combined established standard of 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene

\*\*\* = Combined established standard for NR 720 RCLs for groundwater protection



## COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

							ROJECT NUM								
Sample				NR 720 RCLs -	NR 720 RCLs -	EB-		EB-			B-33		-B-34		B-35
Depth (feet)	_		NR 720 RCLs	Non-Industrial	Industrial Use	2-4	8-10	2-4	6-8	2-4	9-10	2-4	7-7.5	2-4	8-10
Soil Type	Units	Method	for GW	Use for Direct	for Direct	GRAVEL & CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Fill	Silty CLAY	Fill	Fill	Silty CLAY	Silty CLAY
Soil Conditions			Protection (1)	Contact	Contact	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date				Protection (1)	Protection (1)	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	6/3/2021	6/3/2021
Physical Characteristics								I							
Percent Moisture						9.3	18.5	15.8	11.8	14.2	10	4.6	13.5	16	9.3
Percent Solids						90.7	81.5	84.2	88.2	85.8	90	95.4	86.5	84	90.7
Volatile Organic Compounds (VOCs)															
1,1,1,2-Tetrachloroethane	mg/Kg	8260B	0.0534	2.78	<u>12.3</u>	<0.028	<0.033	<0.031	<0.029					<0.032	<0.028
1,1,1-Trichloroethane	mg/Kg	8260B	0.1402	640	<u>640</u>	<0.023	<0.027	<0.026	<0.024					<0.026	<0.023
1,1,2,2-Tetrachloroethane	mg/Kg	8260B	0.0002	0.81	<u>3.6</u>	<0.024	<0.029	<0.027	<0.025					<0.028	<0.024
1,1,2-Trichloroethane	mg/Kg	8260B	0.0032	1.59	<u>7.01</u>	<0.021	<0.025	<0.024	<0.022					<0.024	<0.021
1,1-Dichloroethane	mg/Kg	8260B	0.4834	5.06	<u>22.2</u>	<0.025	<0.030	<0.028	<0.026					<0.028	<0.025
1,1-Dichloroethene	mg/Kg	8260B	0.005	320	<u>1,190</u>	<0.023	<0.028	<0.026	<0.024					<0.027	<0.023
1,1-Dichloropropene	mg/Kg	8260B				<0.018	<0.021	<0.020	<0.019					<0.021	<0.018
1,2,3-Trichlorobenzene	mg/Kg	8260B		62.6	<u>934</u>	<0.027	<0.033	<0.031	<0.029			-		<0.032	<0.027
1,2,3-Trichloropropane	mg/Kg	8260B	0.0519	0.005	<u>0.109</u>	<0.025	<0.030 <0.025	<0.028	<0.026			_		<0.029 <0.024	<0.025 <0.021
1,2,4-Trichlorobenzene	mg/Kg	8260B	0.408	24	<u>113</u>	<0.020		<0.023	<0.021						
1,2,4-Trimethylbenzene	mg/Kg	8260B	1.3787**	219	219	<0.021	<0.026	<0.024	<0.022			-		<0.025	<0.021
1,2-Dibromo-3-Chloropropane	mg/Kg	8260B	0.0002	0.008	0.092	<0.12 <0.023	<0.14 <0.028	<0.14	<0.12 <0.024					<0.14 <0.027	<0.12 <0.023
1,2-Dibromoethane	mg/Kg	8260B	0.0000282	0.05	<u>0.221</u>		<0.028	<0.026							<0.023 <0.020
1,2-Dichlorobenzene	mg/Kg	8260B	1.168	376	376	<0.020		<0.023	<0.021 <0.025					<0.023	<0.020 <0.024
1,2-Dichloroethane	mg/Kg	8260B	0.0028	0.652	<u>2.87</u>	<0.023	<0.028	<0.027						<0.027	
1,2-Dichloropropane	mg/Kg	8260B	0.0033 1.3787**	3.4 182	<u>15</u>	<0.026	<0.031	<0.029	<0.027					<0.030	<0.026
1,3,5-Trimethylbenzene	mg/Kg	8260B 8260B	1.3787^^	182 297	182	<0.023 <0.024	<0.027 <0.029	<0.026 <0.027	<0.024 <0.025					<0.026 <0.028	<0.023 <0.024
1,3-Dichlorobenzene 1,3-Dichloropropane	mg/Kg	8260B	0.0003	2.37	<u>297</u>	<0.024	<0.029	<0.027	<0.023					<0.025	<0.024
1,4-Dichlorobenzene	mg/Kg mg/Kg	8260B	0.0003	3.74	<u>10.6</u> 16.4	<0.022	<0.026	<0.025	<0.023					<0.025	<0.022
2,2-Dichloropropane	mg/Kg	8260B	0.144	191	191	<0.022	<0.032	<0.023	<0.023					<0.023	<0.022
2-Chlorotoluene	mg/Kg	8260B		907	907	<0.019	<0.023	<0.021	<0.020					<0.022	<0.019
4-Chlorotoluene	mg/Kg	8260B		253	253	<0.021	<0.025	<0.024	<0.022					<0.024	<0.021
Benzene	mg/Kg	8260B	0.0051	1.6	7.07	<0.0087	<0.011	<0.0099	<0.0091					<0.010	<0.0088
Bromobenzene	mg/Kg	8260B		342	679	<0.021	<0.026	<0.024	<0.022					<0.025	<0.021
Bromochloromethane	mg/Kg	8260B		216	906	<0.026	<0.031	<0.029	<0.027					<0.030	<0.026
Bromodichloromethane	mg/Kg	8260B	0.0003	0.418	1.83	<0.022	<0.027	<0.025	<0.023					<0.026	<0.022
Bromoform	mg/Kg	8260B	0.0023	25.4	113	<0.029	<0.035	<0.033	<0.030					<0.033	<0.029
Bromomethane	mg/Kg	8260B	0.0051	9.6	43	<0.048	<0.057	<0.054	<0.050					<0.055	<0.048
Carbon tetrachloride	mg/Kg	8260B	0.0039	0.916	4.03	<0.023	<0.028	<0.026	<0.024					<0.027	<0.023
Chlorobenzene	mg/Kg	8260B		370	<u>761</u>	<0.023	<0.028	<0.026	<0.024					<0.027	<0.023
Chloroethane	mg/Kg	8260B	0.2266	2,120	<u>2,120</u>	<0.030	<0.036	<0.034	<0.032			-		<0.035	<0.030
Chloroform	mg/Kg	8260B	0.0033	0.454	<u>1.98</u>	<0.022	<0.027	<0.025	<0.023					<0.026	<0.022
Chloromethane	mg/Kg	8260B	0.0155	159	<u>669</u>	<0.019	<0.023	<0.022	<0.020					<0.022	<0.019
cis-1,2-Dichloroethene	mg/Kg	8260B	0.0412	156	<u>2,340</u>	<0.024	<0.029	<0.028	<0.026					<0.028	<0.024
cis-1,3-Dichloropropene	mg/Kg	8260B	0.0003	1,210	<u>1,210</u>	<0.025	<0.030	<0.028	<0.026					<0.029	<0.025
Dibromochloromethane	mg/Kg	8260B	0.032	8.28	<u>38.9</u>	<0.029	<0.035	<0.033	<0.031					<0.034	<0.029
Dibromomethane	mg/Kg	8260B		34	<u>143</u>	<0.016	<0.019	<0.018	<0.017					<0.019	<0.016
Dichlorodifluoromethane	mg/Kg	8260B	3.0863	126	<u>530</u>	<0.040	<0.049	<0.046	<0.042					<0.047	<0.040
Ethylbenzene	mg/Kg	8260B	1.57	8.02	<u>35.4</u>	<0.011	<0.013	<0.012	<0.011					<0.013	<0.011
Hexachlorobutadiene	mg/Kg	8260B		1.63	<u>7.19</u>	<0.027	<0.032	<0.030	<0.028					<0.031 *+	<0.027 *+
Isopropyl ether	mg/Kg	8260B		2,260	<u>2,260</u>	<0.017	<0.020	<0.019	<0.017					<0.019	<0.017
Isopropylbenzene	mg/Kg	8260B	0.007	268	<u>268</u>	<0.023	<0.028	<0.026	<0.024					<0.027	<0.023
Methyl tert-butyl ether	mg/Kg	8260B	0.027	63.8	<u>282</u>	<0.024	<0.028	<0.027	<0.025					<0.027	<0.024
Methylene Chloride	mg/Kg	8260B	0.0026	61.8	1,150	<0.098	<0.12	<0.11	<0.10					<0.11	<0.098
Naphthalene	mg/Kg	8260B	0.658182	5.52	<u>24.10</u>	<0.020	<0.024	<0.023	<0.021					<0.023	<0.020
n-Butylbenzene	mg/Kg	8260B		108	108 264	<0.023	<0.028	<0.026	<0.024					<0.027 <0.029	<0.023
N-Propylbenzene p-Isopropyltoluene	mg/Kg	8260B 8260B		264 162	<u>264</u>	<0.025 <0.022	<0.030 <0.026	<0.028 <0.025	<0.026 <0.023					<0.029	<0.025 <0.022
p-isopropyitoluene sec-Butylbenzene	mg/Kg mg/Kg	8260B 8260B		145	<u>162</u> 145	<0.022	<0.026	<0.025	<0.025					<0.025	<0.022
Styrene	mg/Kg	8260B	0.22	867	867	<0.024	<0.029	<0.027	<0.025					<0.028	<0.024
tert-Butylbenzene	mg/Kg	8260B	0.22	183	183	<0.023	<0.028	<0.027	<0.024					<0.027	<0.023
Tetrachloroethene	mg/Kg	8260B	0.0045	33	165 145	<0.024	<0.029	0.055 J	<0.023					<0.026 *+	<0.024 *+
Toluene	mg/Kg	8260B	1.1072	818	818	<0.0088	<0.027	<0.010	<0.0092					<0.020 +	<0.022 +
trans-1,2-Dichloroethene	mg/Kg	8260B	0.0626	1560	1850	<0.008	<0.025	<0.010	<0.0092					<0.024	<0.021
trans-1,3-Dichloropropene	mg/Kg	8260B	0.0020	1,510	1,510	<0.021	<0.025	<0.025	<0.022					<0.025	<0.021
Trichloroethene	mg/Kg	8260B	0.0036	1.3	8.41	<0.0028	<0.026	0.37	2.4					<0.025	<0.022
Trichlorofluoromethane	mg/Kg	8260B	0.0030	1,230	1,230	<0.0096	<0.012	<0.029	<0.027					<0.030	<0.026
Vinyl chloride	mg/Kg	8260B	0.0001	0.067	2.08	<0.020	<0.019	<0.029	<0.016					<0.030	<0.020
Xylenes, Total	mg/Kg		3.96	1,212	1212	<0.010	<0.019	<0.015	<0.014					<0.015	<0.013
Ayronos, Total	l ilig/rtg	02000	0.30	1,414	1616	١٥.٥١٥	١٥.٥٠	١٠.٥١٥	NU.U14					٠٥.٥١٥	\U.U.U



## COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

							ROJECT NUM								
Sample				NR 720 RCLs -	NR 720 RCLs -		B-31		B-32		B-33		-B-34		-B-35
Depth (feet)			NR 720 RCLs	Non-Industrial	Industrial Use	2-4	8-10	2-4	6-8	2-4	9-10	2-4	7-7.5	2-4	8-10
Soil Type	Units	Method	for GW	Use for Direct	for Direct	GRAVEL & CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Fill	Silty CLAY	Fill	Fill	Silty CLAY	Silty CLAY
Soil Conditions			Protection (1)	Contact	Contact	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date				Protection (1)	Protection (1)	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	6/3/2021	6/3/2021
Method 8260B - Volatile Organic Compoounds - TCLP															
1,1-Dichloroethene	mg/L	8260B													
1,2-Dichloroethane	mg/L	8260B													
Benzene	mg/L	8260B													
Carbon tetrachloride	mg/L	8260B													
Chlorobenzene	mg/L	8260B													
Chloroform	mg/L	8260B													
Methyl Ethyl Ketone	mg/L	8260B													
Tetrachloroethene	mg/L	8260B													
Trichloroethene	mg/L	8260B													
Vinyl Chloride	mg/L	8260B													
Semivolatile Organic Compounds (SVOCs)								•	•						
1,2,4-Trichlorobenzene	mg/Kg	8270D	0.408	24	113										
1,2-Dichlorobenzene	mg/Kg	8270D	1.168	376	376										
1,3-Dichlorobenzene	mg/Kg	8270D	1.1528	297	297										
1,4-Dichlorobenzene	mg/Kg	8270D	0.144	3.74	16.4										
1-Methylnaphthalene	mg/Kg	8270D		17.6	72.7										
2,2'-oxybis[1-chloropropane]	mg/Kg	8270D													
2,4,5-Trichlorophenol	mg/Kg	8270D		6320	82,100										
2,4,6-Trichlorophenol	mg/Kg	8270D		49.3	209										
2,4-Dichlorophenol	mg/Kg	8270D		190	2460										
2,4-Dimethylphenol	mg/Kg	8270D		1260	16,400										
2,4-Dinitrophenol	mg/Kg	8270D		126	1640										
2,4-Dinitrotoluene	mg/Kg	8270D	0.0001	1.74	7.37										
2,6-Dinitrotoluene	mg/Kg	8270D	0.0001	0.363	1.54										
2-Chloronaphthalene	mg/Kg	8270D		4780	60,300										
2-Chlorophenol	mg/Kg	8270D		391	5,840										
2-Methylnaphthalene	mg/Kg	8270D		239	3010										
2-Methylphenol	mg/Kg	8270D		3160	41,000										
2-Nitroaniline	mg/Kg	8270D		627	8010										
2-Nitrophenol	mg/Kg	8270D													
3 & 4 Methylphenol	mg/Kg	8270D		9480**	123,100**										
3,3'-Dichlorobenzidine	mg/Kg	8270D													
3-Nitroaniline	mg/Kg	8270D													
4.6-Dinitro-2-methylphenol	mg/Kg	8270D													
4-Bromophenyl phenyl ether	mg/Kg	8270D													
4-Chloro-3-methylphenol	mg/Kg	8270D		6320	82,100										
4-Chloroaniline	mg/Kg	8270D		2.71	11.5										
4-Chlorophenyl phenyl ether	mg/Kg	8270D													
4-Nitroaniline	mg/Kg	8270D		27.1	115										
4-Nitrophenol	mg/Kg	8270D													
Acenaphthene	mg/Kg	8270D		3590	45,200										
Acenaphthylene	mg/Kg	8270D													
Anthracene	mg/Kg	8270D	196.9492	17,900	100,000										
Benzo[a]anthracene	mg/Kg	8270D		1.14	21										
Benzo[a]pyrene	mg/Kg	8270D	0.47	0.115	<u>2.11</u>										
Benzo[b]fluoranthene	mg/Kg	8270D	0.4781	1.15	21.1										
Benzo[g,h,i]perylene	mg/Kg	8270D													
Benzo[k]fluoranthene	mg/Kg	8270D		11.5	211										
Benzoic acid	mg/Kg	8270D		100,000	100,000										
Benzyl alcohol	mg/Kg	8270D		6320	<u>82,100</u>										
Bis(2-chloroethoxy)methane	mg/Kg	8270D		190	2460										
Bis(2-chloroethyl)ether	mg/Kg	8270D		0.286	1.29										
Bis(2-ethylhexyl) phthalate	mg/Kg	8270D	2.88	38.8	164										
Butyl benzyl phthalate	mg/Kg	8270D		286	1210										
Carbazole	mg/Kg	8270D													
Chrysene	mg/Kg	8270D	0.1442	115	2110										
Dibenz(a,h)anthracene	mg/Kg	8270D		0.115	2										
Dibenzofuran	mg/Kg	8270D		73	1040										
DIDENZOIUI all	i iig/Ng	02/00		13	1040						ı				



## COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

Sample				NR 720 RCLs -	NR 720 RCLs -		B-31		B-32	EB-			-B-34		B-35
Depth (feet)	4		NR 720 RCLs	Non-Industrial	Industrial Use	2-4	8-10	2-4	6-8	2-4	9-10	2-4	7-7.5	2-4	8-10
Soil Type	Units	Method	for GW	Use for Direct	for Direct	GRAVEL & CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Fill	Silty CLAY	Fill	Fill	Silty CLAY	Silty CLAY
Soil Conditions	1		Protection (1)	Contact	Contact	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date				Protection (1)	Protection (1)	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	6/3/2021	6/3/2021
Diethyl phthalate	mg/Kg	8270D		50,600	<u>100,000</u>										
Dimethyl phthalate	mg/Kg	8270D													
Di-n-butyl phthalate	mg/Kg	8270D	5.0333	6320	<u>82,100</u>										
Di-n-octyl phthalate	mg/Kg	8270D	0	632	<u>8210</u>										
Fluoranthene	mg/Kg	8270D	88.8778	2390	<u>30,100</u>										
Fluorene	mg/Kg	8270D	14.8299	2390	<u>30,100</u>										
Hexachlorobenzene	mg/Kg	8270D	0.0252	0.252	<u>1.15</u>										
Hexachlorobutadiene	mg/Kg	8270D		1.63	<u>7.19</u>										
Hexachlorocyclopentadiene	mg/Kg	8270D		2.55	<u>10.8</u>										
Hexachloroethane	mg/Kg	8270D		2.52	<u>11.1</u>										
Indeno[1,2,3-cd]pyrene	mg/Kg	8270D		1.15	<u>21.1</u>										
Isophorone	mg/Kg	8270D		571	<u>2420</u>										
Naphthalene	mg/Kg	8270D	0.6582	5.52	<u>24.1</u>										
Nitrobenzene	mg/Kg	8270D													
N-Nitrosodi-n-propylamine	mg/Kg	8270D		0.078	<u>0.328</u>										
N-Nitrosodiphenylamine	mg/Kg	8270D	0.0764	111	<u>469</u>										
Pentachlorophenol	mg/Kg	8270D	0.0028	1.02	<u>3.97</u>										
Phenanthrene	mg/Kg	8270D													
Phenol	mg/Kg	8270D	2.2946	19,000	<u>100,000</u>										
Pyrene	mg/Kg	8270D	54.5455	1790	<u>22,600</u>										
Polycyclic Aromatic Hydrocarbons (PAHs)															
1-Methylnaphthalene	mg/Kg	8270D		17.6	<u>72.7</u>	<0.0086	<0.0098	<0.0092	0.0095 J					<0.0096	<0.0087
2-Methylnaphthalene	mg/Kg	8270D		239	<u>3010</u>	<0.0065	<0.0074	0.010 J	0.010 J					<0.0072	<0.0066
Acenaphthene	mg/Kg	8270D		3590	<u>45,200</u>	<0.0063	<0.0072	<0.0068	<0.0067					<0.0071	<0.0064
Acenaphthylene	mg/Kg	8270D				<0.0046	<0.0053	<0.0050	<0.0049					<0.0052	<0.0047
Anthracene	mg/Kg	8270D	196.9492	17,900	<u>100,000</u>	<0.0059	<0.0067	<0.0063	<0.0062					<0.0066	<0.0060
Benzo[a]anthracene	mg/Kg	8270D		1.14	<u>21</u>	<0.0047	<0.0054	<0.0051	0.0071 J					<0.0053	0.0071 J
Benzo[a]pyrene	mg/Kg	8270D	0.47	0.115	<u>2.11</u>	<0.0068	<0.0078	0.0080 J	0.013 J					<0.0076	<0.0069
Benzo[b]fluoranthene	mg/Kg	8270D	0.4781	1.15	<u>21.1</u>	<0.0076	<0.0087	0.010 J	0.014 J					<0.0085	<0.0077
Benzo[g,h,i]perylene	mg/Kg	8270D				0.013 J	<0.013	<0.012	0.014 J			-		<0.013	<0.012
Benzo[k]fluoranthene	mg/Kg	8270D		11.5	<u>211</u>	<0.010	<0.012	<0.011	<0.011					<0.012	<0.011
Chrysene	mg/Kg	8270D	0.1442	115	<u>2110</u>	0.023 J	<0.011	<0.010	0.021 J	-				<0.011	0.012 J
Dibenz(a,h)anthracene	mg/Kg	8270D		0.115	<u>2</u>	<0.0068	<0.0078	< 0.0073	<0.0072					<0.0076	<0.0069
Fluoranthene	mg/Kg	8270D	88.8778	2390	<u>30,100</u>	<0.0065	<0.0075	0.0091 J	0.015 J					< 0.0073	<0.0066
Fluorene	mg/Kg	8270D	14.8299	2390	<u>30,100</u>	<0.0050	<0.0057	<0.0053	<0.0052			-		<0.0055	<0.0050
Indeno[1,2,3-cd]pyrene	mg/Kg	8270D		1.15	<u>21.1</u>	<0.0091	<0.010	<0.0098	<0.0097					<0.010	<0.0093
Naphthalene	mg/Kg	8270D	0.6582	5.52	<u>24.1</u>	<0.0054	<0.0062	0.0075 J	0.0070 J					<0.0061	<0.0055
Phenanthrene	mg/Kg	8270D				0.015 J	<0.0056	0.011 J	0.021 J					<0.0055	0.013 J
Pyrene	mg/Kg	8270D	54.5455	1790	<u>22,600</u>	0.0089 J	<0.0080	0.0081 J	0.016 J					<0.0078	0.0093 J
Polychlorinated Biphenyls (PCBs)															
PCB-1016	mg/Kg	8082A	0.0094***	4.11	<u>28</u>										
PCB-1221	mg/Kg	8082A	0.0094***	0	0.883										
PCB-1232	mg/Kg	8082A	0.0094***	0.19	0.792					_					
PCB-1242	mg/Kg	8082A	0.0094***	0.235	0.972										
PCB-1248	mg/Kg	8082A	0.0094***	0.236	0.975										
PCB-1254	mg/Kg	8082A	0.0094***	0.239	1										
PCB-1260	mg/Kg	8082A	0.0094***	0.243	1										
RCRA Metals															
Arsenic	mg/Kg	6010B	0.584	0.677	<u>3</u>	3.3		3.2		4.3	<u>12</u>	1.8	2.6		
Barium	mg/Kg	6010B	164.8	15,300	100,000	22		62		47	26	10	25		
Cadmium	mg/Kg	6010B	0.752	71.1	985	0.10 J		0.17 J		0.25	<0.037	0.091 J	0.12 J		
Chromium	mg/Kg	6010B	360,000*			13		21		16	13	6.1	10		
Copper	mg/Kg	6010B	91.6	3130	46,700					21	22	8.4	7.7		
Lead	mg/Kg	6010B	27	400	800	7.6 B		12 B		16 B	22 B	4.6 B	6.6 B		
Mercury	mg/Kg	6010B	0.208	3.13	3.13	0.0092 J		0.018		0.031	0.011 J	<0.0057	0.14		
Nickel	mg/Kg	6010B	13.0612	1550	22,500					24	23	7.3	9.9		
Selenium	mg/Kg	6010B	0.52	391	<u>5840</u>	<0.58		<0.61		<0.66	1.0	<0.53	<0.62		
Silver	mg/Kg	6010B	0.8491	391	5840	0.22 J B		0.32 J B		0.22 J B	0.23 J B	<0.12	<0.14		
Zinc	mg/Kg	6010B		23,500	100,000	0.22 J B		0.32 J B		91	57	22	26		
LIIIO	ing/Ng	UUIUD		23,300	100,000					J1	JI	- 44	۷.		



## COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

						F.	ROJECT NUM	DLIN. 4044 I							
Sample				NR 720 RCLs -	NR 720 RCLs -	EB-	3-31	EB-	-B-32	EB-	·B-33	EB	-B-34	EB-	B-35
Depth (feet)			NR 720 RCLs	Non-Industrial	Industrial Use	2-4	8-10	2-4	6-8	2-4	9-10	2-4	7-7.5	2-4	8-10
Soil Type	Units	Method	for GW	Use for Direct	for Direct	GRAVEL & CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Fill	Silty CLAY	Fill	Fill	Silty CLAY	Silty CLAY
Soil Conditions			Protection (1)	Contact	Contact	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date				Protection (1)	Protection (1)	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	6/3/2021	6/3/2021
Oranochlorine Pesticides															
4,4'-DDD	mg/Kg	8081A		1.9	9.57										
4,4'-DDE	mg/Kg	8081A		2	9.38										
4,4'-DDT	mg/Kg	8081A		1.89	8.53										
Aldrin	mg/Kg	8081A		0.04	0.187										
alpha-BHC	mg/Kg	8081A		0.086	0.365										
cis-Chlordane	mg/Kg	8081A													
beta-BHC	mg/Kg	8081A		0.301	<u>1.28</u>										
delta-BHC	mg/Kg	8081A													
Dieldrin	mg/Kg	8081A		0.034	0.144										
Endosulfan I	mg/Kg	8081A		469	<u>7010</u>										
Endosulfan II	mg/Kg	8081A													
Endosulfan sulfate	mg/Kg	8081A													
Endrin	mg/Kg	8081A	0.1616	19	<u>246</u>										
Endrin aldehyde	mg/Kg	8081A	0.1616	19	<u>246</u>										
Endrin ketone	mg/Kg	8081A													
gamma-BHC (Lindane)	mg/Kg	8081A	0.0023	0.568	<u>2.54</u>										
trans-Chlordane	mg/Kg	8081A													
Heptachlor	mg/Kg	8081A	0.0662	0.14	0.654										
Heptachlor epoxide	mg/Kg	8081A	0.082	0.072	0.338										
Methoxychlor	mg/Kg	8081A	4.32	316	<u>4100</u>										
Toxaphene	mg/Kg	8081A	0.928	0.493	<u>2.09</u>										
Herbicides															
2,4,5-T	mg/Kg	8151A		632	<u>8210</u>										
2,4-D	mg/Kg	8151A	0.0362	699	<u>9640</u>										
2,4-DB	mg/Kg	8151A		1900	<u>24,600</u>										
Dicamba	mg/Kg	8151A	0.1553	1900	<u>24,600</u>										
Dichlorprop	mg/Kg	8151A													
Silvex (2,4,5-TP)	mg/Kg	8151A	0.055	506	<u>6,570</u>										



#### TABLE 1

#### SOIL QUALITY TEST RESULTS

#### **COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK**

#### MILWAUKEE, WI PROJECT NUMBER: 40441

						Г	ROJECT NUM	DER. 4044 I							
Sample				NR 720 RCLs -	NR 720 RCLs -	EB-	B-31	EB-	-B-32	EB-	B-33	EB	-B-34	EB-	B-35
Depth (feet)			NR 720 RCLs	Non-Industrial	Industrial Use	2-4	8-10	2-4	6-8	2-4	9-10	2-4	7-7.5	2-4	8-10
Soil Type	Units	Method	for GW	Use for Direct	for Direct	GRAVEL & CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Fill	Silty CLAY	Fill	Fill	Silty CLAY	Silty CLAY
Soil Conditions			Protection (1)	Contact	Contact	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date				Protection (1)	Protection (1)	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021	6/3/2021	6/3/2021
Method 537 (modified) - Fluorinated Alkyl Substances										•					
Perfluorobutanoic acid (PFBA)	ug/Kg	537				<0.047		<0.053							
Perfluoropentanoic acid (PFPeA)	ug/Kg	537				<0.042		<0.048							
Perfluorohexanoic acid (PFHxA)	ug/Kg	537				<0.032		<0.036							
Perfluoroheptanoic acid (PFHpA)	ug/Kg	537				<0.039		<0.044							
Perfluorooctanoic acid (PFOA)	ug/Kg	537		1260	16,400	<0.054		<0.062							
Perfluorononanoic acid (PFNA)	ug/Kg	537				<0.023		<0.026							
Perfluorodecanoic acid (PFDA)	ug/Kg	537				<0.049		<0.056							
Perfluoroundecanoic acid (PFUnA)	ug/Kg	537				<0.043		<0.049							
Perfluorododecanoic acid (PFDoA)	ug/Kg	537				<0.031		< 0.035							
Perfluorotridecanoic acid (PFTriA)	ug/Kg	537				<0.022		<0.024							
Perfluorotetradecanoic acid (PFTeA)	ug/Kg	537				<0.038		<0.043							
Perfluoro-n-hexadecanoic acid (PFHxDA)	ug/Kg	537				<0.039		<0.044							
Perfluoro-n-octadecanoic acid (PFODA)	ug/Kg	537				<0.068		<0.077							
Perfluorobutanesulfonic acid (PFBS)	ug/Kg	537				<0.039		<0.044							
Perfluoropentanesulfonic acid (PFPeS)	ug/Kg	537				<0.038		<0.043							
Perfluorohexanesulfonic acid (PFHxS)	ug/Kg	537				<0.030		<0.034							
Perfluoroheptanesulfonic Acid (PFHpS)	ug/Kg	537				<0.050		<0.057							
Perfluorooctanesulfonic acid (PFOS)	ug/Kg	537		1260	16,400	<0.044		<0.050							
Perfluorononanesulfonic acid (PFNS)	ug/Kg	537				<0.030		<0.034							
Perfluorodecanesulfonic acid (PFDS)	ug/Kg	537				<0.053		<0.060							
Perfluorododecanesulfonic acid (PFDoS)	ug/Kg	537			_	<0.048		<0.055							
Perfluorooctanesulfonamide (FOSA)	ug/Kg	537				<0.034		<0.038							
NEtFOSA	ug/Kg	537				<0.048		<0.055							
NMeFOSA	ug/Kg	537				<0.050		<0.057							
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ug/Kg	537				<0.049		<0.056							
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ug/Kg	537				<0.024		<0.027							
NMeFOSE	ug/Kg	537				<0.029		< 0.033							
NEtFOSE	ug/Kg	537				<0.048		<0.055							
4:2 FTS	ug/Kg	537				<0.052		< 0.059							
6:2 FTS	ug/Kg	537				<0.028		<0.031							
8:2 FTS	ug/Kg	537				<0.036		<0.041							
10:2 FTS	ug/Kg	537				<0.039		<0.044							
DONA	ug/Kg	537				<0.040		<0.045							
HFPO-DA (GenX)	ug/Kg	537				<0.042		<0.048							
F-53B Major	ug/Kg	537				<0.036		<0.041							
F-53B Minor	ug/Kg	537				<0.032		<0.036							

(1) From WDNR RCLs Worksheet dated December 2018

Italicized values exceed Groundwater Protection, Non-Industrial Direct Contact, or Industrial Direct-Contact RCLs

BOLD values exceed Groundwater Protection, Non-Industrial Direct Contact, or Industrial Direct-Contact RCLs

BOLD Underlined values exceed Groundwater Protection, Non-Industrial Direct Contact, or Industrial Direct-Contact RCLs

- --- = Not analyzed / No established standard
- J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value
- F1 = Matrix spike and/or matrix spike duplicate recovery exceeds control limits
- F2 MS/MSD RPD exceeds control limits
- V Serial Dilution exceeds the control limits
- B = Compound was found in the blank and sample
- \*+ = Laboratory conrol sample and/or laboratory control sample duplicate is outside acceptance limits, high biased
- \* = Laboratory control sample and/or laboratory control sample duplicate is outside acceptance limits
- \*\* = Combined established standard of 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene
- \*\*\* = Combined established standard for NR 720 RCLs for groundwater protection



## COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

## MILWAUKEE, WI

,	
PROJECT NUMBER: 4	0441

Sample	<u> </u>	1		NR 720 RCLs -	NR 720 RCLs -	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Depth (feet)			NR 720 RCLs	Non-Industrial	Industrial Use						
Soil Type	Units	Method	for GW	Use for Direct	for Direct						
Soil Conditions			Protection (1)	Contact	Contact						
Sampling Date				Protection (1)	Protection (1)	2/25/2021	3/3/2021	3/9/2021	4/14/2021	6/3/2021	7/20/2021
Physical Characteristics											
Percent Moisture											
Percent Solids											
Volatile Organic Compounds (VOCs)							1	1			
1,1,1,2-Tetrachloroethane	mg/Kg	8260B	0.0534	2.78	<u>12.3</u>	<0.023	<0.028	<0.023	<0.023	<0.023	<0.023
1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane	mg/Kg	8260B	0.1402	640	<u>640</u>	<0.019	<0.023	<0.019	<0.019	<0.019	<0.019
1,1,2-Trichloroethane	mg/Kg mg/Kg	8260B 8260B	0.0002 0.0032	0.81 1.59	3.6 7.01	<0.020 <0.018	<0.024 <0.021	<0.020 <0.018	<0.020 <0.018	<0.020 <0.018	<0.020 <0.018
1,1-Dichloroethane	mg/Kg	8260B	0.0032	5.06	22.2	<0.016	<0.021	<0.016	<0.018	<0.016	<0.016
1.1-Dichloroethene	mg/Kg	8260B	0.005	320	1,190	<0.021	<0.024	<0.021	<0.020	<0.021	<0.021
1,1-Dichloropropene	mg/Kg	8260B			1,130 	<0.015	<0.018	<0.020	<0.015	<0.020	<0.020
1,2,3-Trichlorobenzene	mg/Kg	8260B		62.6	934	<0.023	<0.028	<0.023	<0.023	<0.023	<0.023
1,2,3-Trichloropropane	mg/Kg	8260B	0.0519	0.005	0.109	<0.021	<0.025	<0.021	<0.021	<0.021	<0.021
1,2,4-Trichlorobenzene	mg/Kg	8260B	0.408	24	113	<0.017	<0.021	<0.017	<0.017	<0.017	<0.017
1,2,4-Trimethylbenzene	mg/Kg	8260B	1.3787**	219	219	<0.018	<0.022	<0.018	<0.018	<0.018	<0.018
1,2-Dibromo-3-Chloropropane	mg/Kg	8260B	0.0002	0.008	0.092	<0.10	<0.12	<0.10 *+	<0.10	<0.10	<0.10
1,2-Dibromoethane	mg/Kg	8260B	0.0000282	0.05	<u>0.221</u>	<0.019	<0.023	<0.019	<0.019	<0.019	<0.019
1,2-Dichlorobenzene	mg/Kg	8260B	1.168	376	<u>376</u>	<0.017	<0.020	<0.017 *+	<0.017	<0.017	<0.017
1,2-Dichloroethane	mg/Kg	8260B	0.0028	0.652	<u>2.87</u>	<0.020	<0.024	<0.020	<0.020	<0.020	<0.020
1,2-Dichloropropane	mg/Kg	8260B	0.0033	3.4	<u>15</u>	<0.021	<0.026	<0.021	<0.021	<0.021	<0.021
1,3,5-Trimethylbenzene	mg/Kg	8260B	1.3787**	182	<u>182</u>	<0.019	<0.023	<0.019	<0.019	<0.019	<0.019
1,3-Dichlorobenzene	mg/Kg	8260B	1.1528	297	<u>297</u>	<0.020	<0.024	<0.020	<0.020	<0.020	<0.020
1,3-Dichloropropane	mg/Kg	8260B	0.0003	2.37	<u>10.6</u>	<0.018	<0.022	<0.018	<0.018	<0.018	<0.018
1,4-Dichlorobenzene 2,2-Dichloropropane	mg/Kg mg/Kg	8260B 8260B	0.144	3.74 191	16.4 191	<0.018 <0.022	<0.022 <0.027	<0.018 *+ <0.022	<0.018 <0.022	<0.018 <0.022	<0.018 <0.022
2-Chlorotoluene	mg/Kg	8260B		907	907	<0.022	<0.019	<0.022	<0.022	<0.022	<0.022
4-Chlorotoluene	mg/Kg	8260B		253	253	<0.018	<0.021	<0.018	<0.018	<0.018	<0.018
Benzene	mg/Kg	8260B	0.0051	1.6	7.07	<0.0073	<0.0088	<0.0073	<0.0073	<0.0073	<0.0073
Bromobenzene	mg/Kg	8260B		342	679	<0.018	<0.022	<0.018 *+	<0.018	<0.018	<0.018
Bromochloromethane	mg/Kg	8260B		216	906	<0.021	<0.026	<0.021 *+	<0.021	<0.021	<0.021
Bromodichloromethane	mg/Kg	8260B	0.0003	0.418	1.83	<0.019	<0.022	<0.019	<0.019	<0.019	<0.019
Bromoform	mg/Kg	8260B	0.0023	25.4	<u>113</u>	<0.024	<0.029	<0.024	<0.024	<0.024	<0.024
Bromomethane	mg/Kg	8260B	0.0051	9.6	<u>43</u>	<0.040	<0.048	<0.040	<0.040	<0.040	<0.040
Carbon tetrachloride	mg/Kg	8260B	0.0039	0.916	4.03	<0.019	<0.023	<0.019	<0.019	<0.019	<0.019
Chlorobenzene	mg/Kg	8260B	0.0000	370	<u>761</u>	<0.019 <0.025	<0.023	<0.019	<0.019	<0.019	<0.019
Chloroethane	mg/Kg	8260B	0.2266	2,120 0.454	<u>2,120</u>		<0.030 <0.022	<0.025	<0.025 *+	<0.025	<0.025
Chloroform Chloromethane	mg/Kg mg/Kg	8260B 8260B	0.0033 0.0155	159	1.98 669	<0.019 <0.016	<0.022	<0.019 <0.016	<0.019 <0.016	<0.019 <0.016	<0.019 <0.016
cis-1,2-Dichloroethene	mg/Kg	8260B	0.0133	156	2,340	<0.020	<0.019	<0.020	<0.020	<0.020	<0.020
cis-1,3-Dichloropropene	mg/Kg	8260B	0.0003	1,210	1,210	<0.020	<0.025	<0.020	<0.020	<0.020	<0.020
Dibromochloromethane	mg/Kg	8260B	0.0003	8.28	38.9	<0.021	<0.029	<0.021	<0.021	<0.021	<0.021
Dibromomethane	mg/Kg	8260B		34	143	<0.024	<0.016	<0.024	<0.014	<0.014	<0.024
Dichlorodifluoromethane	mg/Kg	8260B	3.0863	126	530	<0.034	<0.041	<0.034	<0.034	<0.034	<0.034
Ethylbenzene	mg/Kg	8260B	1.57	8.02	<u>35.4</u>	<0.0092	<0.011	<0.0092	<0.0092	<0.0092	<0.0092
Hexachlorobutadiene	mg/Kg	8260B		1.63	<u>7.19</u>	<0.022	<0.027	<0.022	<0.022	<0.022 *+	<0.022
Isopropyl ether	mg/Kg	8260B		2,260	<u>2,260</u>	<0.014	<0.017	<0.014	<0.014	<0.014	<0.014
Isopropylbenzene	mg/Kg	8260B		268	<u>268</u>	<0.019	<0.023	<0.019	<0.019	<0.019	<0.019
Methyl tert-butyl ether	mg/Kg	8260B	0.027	63.8	<u>282</u>	<0.020	<0.024	<0.020	<0.020	<0.020	<0.020
Methylene Chloride	mg/Kg	8260B	0.0026	61.8	<u>1,150</u>	<0.082	<0.098	<0.082	<0.082	<0.082	<0.082
Naphthalene	mg/Kg	8260B	0.658182	5.52	<u>24.10</u>	<0.017	<0.020	<0.017	<0.017	<0.017	<0.017
n-Butylbenzene	mg/Kg	8260B		108	<u>108</u>	<0.019	<0.023	<0.019	<0.019	<0.019	<0.019
N-Propylbenzene	mg/Kg	8260B		264	<u>264</u>	<0.021	<0.025	<0.021	<0.021	<0.021	<0.021
p-Isopropyltoluene sec-Butylbenzene	mg/Kg mg/Kg	8260B 8260B		162 145	162 145	<0.018 <0.020	<0.022 <0.024	<0.018 <0.020	<0.018 <0.020	<0.018 <0.020	<0.018 <0.020
Styrene	mg/Kg mg/Kg	8260B	0.22	867	145 867	<0.020	<0.024	<0.020	<0.020	<0.020	<0.020
tert-Butylbenzene		8260B		183	183	<0.019	<0.023	<0.019	<0.019	<0.019	<0.019
NEUTION VIDEUZEUE	ma/ka			100		<0.020	<0.024		<0.020		<0.020
•	mg/Kg		0.0045	33	1/15			<()1114		<()()14 ^+	
Tetrachloroethene	mg/Kg	8260B	0.0045 1.1072	33 818	145 818			<0.019 <0.0074		<0.019 *+ <0.0074	
Tetrachloroethene Toluene	mg/Kg mg/Kg	8260B 8260B	1.1072	818	<u>818</u>	<0.0074	<0.0089	<0.0074	<0.0074	<0.0074	<0.0074
Tetrachloroethene Toluene trans-1,2-Dichloroethene	mg/Kg mg/Kg mg/Kg	8260B 8260B 8260B		818 1560	<u>818</u> <u>1850</u>	<0.0074 <0.018	<0.0089 <0.021	<0.0074 <0.018	<0.0074 <0.018	<0.0074 <0.018	<0.0074 <0.018
Tetrachloroethene Toluene trans-1,2-Dichloroethene trans-1,3-Dichloropropene	mg/Kg mg/Kg mg/Kg mg/Kg	8260B 8260B 8260B 8260B	1.1072 0.0626 	818 1560 1,510	818 1850 1,510	<0.0074 <0.018 <0.018	<0.0089 <0.021 <0.022	<0.0074 <0.018 <0.018	<0.0074 <0.018 <0.018	<0.0074 <0.018 <0.018	<0.0074 <0.018 <0.018
Tetrachloroethene Toluene trans-1,2-Dichloroethene	mg/Kg mg/Kg mg/Kg	8260B 8260B 8260B	1.1072 0.0626	818 1560	<u>818</u> <u>1850</u>	<0.0074 <0.018	<0.0089 <0.021	<0.0074 <0.018	<0.0074 <0.018	<0.0074 <0.018	<0.0074 <0.018
Tetrachloroethene Toluene trans-1,2-Dichloroethene trans-1,3-Dichloropropene Trichloroethene	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	8260B 8260B 8260B 8260B 8260B	1.1072 0.0626  0.0036	818 1560 1,510 1.3	818 1850 1,510 8.41	<0.0074 <0.018 <0.018 <0.0082	<0.0089 <0.021 <0.022 0.093	<0.0074 <0.018 <0.018 <0.0082 *+	<0.0074 <0.018 <0.018 <0.0082	<0.0074 <0.018 <0.018 <0.0082	<0.0074 <0.018 <0.018 <0.0082



## COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

## MILWAUKEE, WI

Sample	1		ı	I		Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Depth (feet)	1		ND 700 DOL	NR 720 RCLs -	NR 720 RCLs -	THP BIAIR	THP BIATIK	TTIP DIATIK		THE DIATE	THP DIATIK
Soil Type	Units	Method	NR 720 RCLs	Non-Industrial	Industrial Use						
- 71	Units	ivietriou	for GW Protection (1)	Use for Direct Contact	for Direct Contact						
Soil Conditions	1		1 Totection (1)	Protection (1)	Protection (1)	0/05/0004	2/2/2024	2/0/0004	4/44/0004	 C/0/0004	7/00/0004
Sampling Date				1 1010011011 (1)	1 Totobion (1)	2/25/2021	3/3/2021	3/9/2021	4/14/2021	6/3/2021	7/20/2021
Method 8260B - Volatile Organic Compoounds - TCLP		00000	Г	1			ı		I	I	I
1,1-Dichloroethene	mg/L	8260B									
1,2-Dichloroethane	mg/L	8260B						-			
Benzene	mg/L	8260B					-	-			
Carbon tetrachloride	mg/L	8260B									
Chlorobenzene	mg/L	8260B									
Chloroform	mg/L	8260B									
Methyl Ethyl Ketone	mg/L	8260B									
Tetrachloroethene	mg/L	8260B									
Trichloroethene	mg/L	8260B									
Vinyl Chloride	mg/L	8260B									
Semivolatile Organic Compounds (SVOCs)											
1,2,4-Trichlorobenzene	mg/Kg	8270D	0.408	24	<u>113</u>						
1,2-Dichlorobenzene	mg/Kg	8270D	1.168	376	376						
1,3-Dichlorobenzene	mg/Kg	8270D	1.1528	297	297						
1,4-Dichlorobenzene	mg/Kg	8270D	0.144	3.74	16.4						
1-Methylnaphthalene	mg/Kg	8270D		17.6	72.7						
2,2'-oxybis[1-chloropropane]	mg/Kg	8270D									
2,4,5-Trichlorophenol	mg/Kg	8270D		6320	82,100						
2,4,6-Trichlorophenol	mg/Kg	8270D		49.3	209						
2,4-Dichlorophenol	mg/Kg	8270D		190	2460						
2,4-Dimethylphenol	mg/Kg	8270D		1260	16.400						
2,4-Dinitrophenol	mg/Kg	8270D		126	1640						
2.4-Dinitrotoluene	mg/Kg	8270D	0.0001	1.74	7.37						
2,6-Dinitrotoluene	mg/Kg	8270D	0.0001	0.363	1.54						
2-Chloronaphthalene		8270D	0.0001	4780							
	mg/Kg				60,300 5,040						
2-Chlorophenol	mg/Kg	8270D		391	<u>5,840</u>						
2-Methylnaphthalene	mg/Kg	8270D		239	<u>3010</u>		-				
2-Methylphenol	mg/Kg	8270D		3160	<u>41,000</u>						
2-Nitroaniline	mg/Kg	8270D		627	<u>8010</u>						
2-Nitrophenol	mg/Kg	8270D									
3 & 4 Methylphenol	mg/Kg	8270D		9480**	<u>123,100**</u>						
3,3'-Dichlorobenzidine	mg/Kg	8270D						-			
3-Nitroaniline	mg/Kg	8270D									
4,6-Dinitro-2-methylphenol	mg/Kg	8270D									
4-Bromophenyl phenyl ether	mg/Kg	8270D									
4-Chloro-3-methylphenol	mg/Kg	8270D		6320	<u>82,100</u>						
4-Chloroaniline	mg/Kg	8270D		2.71	<u>11.5</u>						
4-Chlorophenyl phenyl ether	mg/Kg	8270D									
4-Nitroaniline	mg/Kg	8270D		27.1	<u>115</u>						
4-Nitrophenol	mg/Kg	8270D									
Acenaphthene	mg/Kg	8270D		3590	<u>45,200</u>		-				
Acenaphthylene	mg/Kg	8270D					_				
Anthracene	mg/Kg	8270D	196.9492	17,900	100,000						
Benzo[a]anthracene	mg/Kg	8270D		1.14	21						
Benzo[a]pyrene	mg/Kg	8270D	0.47	0.115	<u>2.11</u>						
Benzo[b]fluoranthene	mg/Kg	8270D	0.4781	1.15	21.1						
Benzo[g,h,i]perylene	mg/Kg	8270D									
Benzo[k]fluoranthene	mg/Kg	8270D		11.5	211						
Benzoic acid	mg/Kg	8270D		100,000	100,000						
Benzyl alcohol	mg/Kg	8270D		6320	82,100		_				
Bis(2-chloroethoxy)methane	mg/Kg	8270D		190	2460						
Bis(2-chloroethyl)ether	mg/Kg	8270D		0.286	1.29						
Bis(2-ethylhexyl) phthalate		8270D	2.88	38.8	1.29 164						
	mg/Kg										
Butyl benzyl phthalate	mg/Kg	8270D		286	<u>1210</u>						
Carbazole	mg/Kg	8270D					-				
Chrysene	mg/Kg	8270D	0.1442	115	<u>2110</u>						
Dibenz(a,h)anthracene	mg/Kg	8270D		0.115	<u>2</u>						
Dibenzofuran	mg/Kg	8270D		73	1040						



## COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

## MILWAUKEE, WI

Sample		1		ND 700 DOI	ND 700 DOI	Trip Blank					
Depth (feet)	t		NR 720 RCLs	NR 720 RCLs - Non-Industrial	NR 720 RCLs - Industrial Use						
Soil Type	Units	Method	for GW	Use for Direct	for Direct						
Soil Conditions	Office	IVICUIOU	Protection (1)	Contact	Contact						
Sampling Date			1 1010011011 (1)	Protection (1)	Protection (1)	2/25/2021	3/3/2021	3/9/2021	4/14/2021	6/3/2021	7/20/2021
	ma/l/a	8270D		50,600	, ,						
Diethyl phthalate	mg/Kg	8270D		-	<u>100,000</u>						
Dimethyl phthalate	mg/Kg		5.0333								
Di-n-butyl phthalate	mg/Kg	8270D		6320	<u>82,100</u>						
Di-n-octyl phthalate	mg/Kg	8270D	0	632	<u>8210</u>						
Fluoranthene	mg/Kg	8270D	88.8778	2390	<u>30,100</u>						
Fluorene	mg/Kg	8270D	14.8299	2390	<u>30,100</u>						
Hexachlorobenzene	mg/Kg	8270D	0.0252	0.252	<u>1.15</u>						
Hexachlorobutadiene	mg/Kg	8270D		1.63	<u>7.19</u>						
Hexachlorocyclopentadiene	mg/Kg	8270D		2.55	<u>10.8</u>						
Hexachloroethane	mg/Kg	8270D		2.52	<u>11.1</u>						
Indeno[1,2,3-cd]pyrene	mg/Kg	8270D		1.15	<u>21.1</u>						
Isophorone	mg/Kg	8270D		571	<u>2420</u>						
Naphthalene	mg/Kg	8270D	0.6582	5.52	<u>24.1</u>						
Nitrobenzene	mg/Kg	8270D					-				
N-Nitrosodi-n-propylamine	mg/Kg	8270D		0.078	0.328						
N-Nitrosodiphenylamine	mg/Kg	8270D	0.0764	111	469						
Pentachlorophenol	mg/Kg	8270D	0.0028	1.02	3.97						
Phenanthrene	mg/Kg	8270D									
Phenol	mg/Kg	8270D	2.2946	19,000	100,000						
Pyrene	mg/Kg	8270D	54.5455	1790	22,600						
Polycyclic Aromatic Hydrocarbons (PAHs)	9/119	02/02	33700		,000			·			
1-Methylnaphthalene	mg/Kg	8270D		17.6	72.7						
2-Methylnaphthalene	mg/Kg	8270D		239	3010						
Acenaphthene	mg/Kg	8270D		3590	45,200						
Acenaphthylene	mg/Kg	8270D			<u>43,200</u>						
Anthracene	mg/Kg	8270D	196.9492	17,900	100,000						
		8270D		1.14	21						
Benzo[a]anthracene	mg/Kg		0.47								
Benzo[a]pyrene	mg/Kg	8270D	0.47	0.115	<u>2.11</u>						
Benzo[b]fluoranthene	mg/Kg	8270D	0.4781	1.15	<u>21.1</u>						
Benzo[g,h,i]perylene	mg/Kg	8270D									
Benzo[k]fluoranthene	mg/Kg	8270D		11.5	<u>211</u>						
Chrysene	mg/Kg	8270D	0.1442	115	<u>2110</u>						
Dibenz(a,h)anthracene	mg/Kg	8270D		0.115	<u>2</u>						
Fluoranthene	mg/Kg	8270D	88.8778	2390	<u>30,100</u>						
Fluorene	mg/Kg	8270D	14.8299	2390	<u>30,100</u>						
Indeno[1,2,3-cd]pyrene	mg/Kg	8270D		1.15	<u>21.1</u>						
Naphthalene	mg/Kg	8270D	0.6582	5.52	24.1						
Phenanthrene	mg/Kg	8270D									
Pyrene	mg/Kg	8270D	54.5455	1790	22,600						
Polychlorinated Biphenyls (PCBs)	פייפי ו										
PCB-1016	mg/Kg	8082A	0.0094***	4.11	28						
PCB-1221	mg/Kg	8082A	0.0094***	0	0.883						
PCB-1232	mg/Kg	8082A	0.0094***	0.19	0.792						
PCB-1242	mg/Kg	8082A	0.0094***	0.235	0.972						
PCB-1248	mg/Kg	8082A	0.0094	0.236	0.97 <u>2</u> 0.975						
PCB-1254		8082A	0.0094	0.239							
	mg/Kg				1						
PCB-1260	mg/Kg	8082A	0.0094***	0.243	1						
RCRA Metals		C040D	0.504	0.077				1			
Arsenic	mg/Kg	6010B	0.584	0.677	3						
Barium	mg/Kg	6010B	164.8	15,300	<u>100,000</u>						
Cadmium	mg/Kg	6010B	0.752	71.1	<u>985</u>						
Chromium	mg/Kg	6010B	360,000*								
Copper	mg/Kg	6010B	91.6	3130	<u>46,700</u>						
Lead	mg/Kg	6010B	27	400	<u>800</u>					-	
Mercury	mg/Kg	6010B	0.208	3.13	3.13						
Nickel	mg/Kg	6010B	13.0612	1550	22,500						
Selenium	mg/Kg	6010B	0.52	391	5840						
Silver	mg/Kg	6010B	0.8491	391	5840						
Zinc	mg/Kg	6010B		23,500	100,000						
LIIV	i iig/rtg	00100		20,000	100,000		l	l			



## TABLE 1

## SOIL QUALITY TEST RESULTS

## COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

## MILWAUKEE, WI

- ,
PROJECT NUMBER: 40441

Sample		l	ı	ND 700 DOI	ND 700 DOI	Trip Blank	Trip Blank				
Depth (feet)			NR 720 RCLs	NR 720 RCLs - Non-Industrial	NR 720 RCLs - Industrial Use						
Soil Type	Units	Method	for GW	Use for Direct	for Direct						
Soil Conditions	01.11.0		Protection (1)	Contact	Contact						
Sampling Date			. ,	Protection (1)	Protection (1)	2/25/2021	3/3/2021	3/9/2021	4/14/2021	6/3/2021	7/20/2021
Oranochlorine Pesticides						-,,				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
4,4'-DDD	mg/Kg	8081A		1.9	9.57						
4,4'-DDE	mg/Kg	8081A		2	9.38						
4,4'-DDT	mg/Kg	8081A		1.89	8.53						
Aldrin	mg/Kg	8081A		0.04	0.187						
alpha-BHC	mg/Kg	8081A		0.086	0.365						
cis-Chlordane	mg/Kg	8081A									
beta-BHC	mg/Kg	8081A		0.301	1.28						
delta-BHC	mg/Kg	8081A									
Dieldrin	mg/Kg	8081A		0.034	0.144						
Endosulfan I	mg/Kg	8081A		469	<u>7010</u>		_				
Endosulfan II	mg/Kg	8081A									
Endosulfan sulfate	mg/Kg	8081A									
Endrin	mg/Kg	8081A	0.1616	19	<u>246</u>		-				
Endrin aldehyde	mg/Kg	8081A	0.1616	19	<u>246</u>						
Endrin ketone	mg/Kg	8081A		-		-					
gamma-BHC (Lindane)	mg/Kg	8081A	0.0023	0.568	<u>2.54</u>	-					
trans-Chlordane	mg/Kg	8081A									
Heptachlor	mg/Kg	8081A	0.0662	0.14	<u>0.654</u>	-					
Heptachlor epoxide	mg/Kg	8081A	0.082	0.072	<u>0.338</u>	-					
Methoxychlor	mg/Kg	8081A	4.32	316	<u>4100</u>						
Toxaphene	mg/Kg	8081A	0.928	0.493	<u>2.09</u>	-					
Herbicides											
2,4,5-T	mg/Kg	8151A		632	<u>8210</u>						
2,4-D	mg/Kg	8151A	0.0362	699	<u>9640</u>						
2,4-DB	mg/Kg	8151A		1900	<u>24,600</u>						
Dicamba	mg/Kg	8151A	0.1553	1900	<u>24,600</u>						
Dichlorprop	mg/Kg	8151A									
Silvex (2,4,5-TP)	mg/Kg	8151A	0.055	506	<u>6,570</u>						



#### TABLE 1

#### **SOIL QUALITY TEST RESULTS**

#### COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK

#### MILWAUKEE, WI PROJECT NUMBER: 40441

Sample				NR 720 RCLs -	NR 720 RCLs -	Trip Blank					
Depth (feet)			NR 720 RCLs	Non-Industrial	Industrial Use						
Soil Type	Units	Method	for GW	Use for Direct	for Direct						
Soil Conditions			Protection (1)	Contact	Contact						
Sampling Date				Protection (1)	Protection (1)	2/25/2021	3/3/2021	3/9/2021	4/14/2021	6/3/2021	7/20/2021
Method 537 (modified) - Fluorinated Alkyl Substances											
Perfluorobutanoic acid (PFBA)	ug/Kg	537									
Perfluoropentanoic acid (PFPeA)	ug/Kg	537									
Perfluorohexanoic acid (PFHxA)	ug/Kg	537					-				
Perfluoroheptanoic acid (PFHpA)	ug/Kg	537									
Perfluorooctanoic acid (PFOA)	ug/Kg	537		1260	<u>16,400</u>		-				
Perfluorononanoic acid (PFNA)	ug/Kg	537									
Perfluorodecanoic acid (PFDA)	ug/Kg	537					_				
Perfluoroundecanoic acid (PFUnA)	ug/Kg	537									
Perfluorododecanoic acid (PFDoA)	ug/Kg	537									
Perfluorotridecanoic acid (PFTriA)	ug/Kg	537									
Perfluorotetradecanoic acid (PFTeA)	ug/Kg	537									
Perfluoro-n-hexadecanoic acid (PFHxDA)	ug/Kg	537					_				
Perfluoro-n-octadecanoic acid (PFODA)	ug/Kg	537									
Perfluorobutanesulfonic acid (PFBS)	ug/Kg	537					_				
Perfluoropentanesulfonic acid (PFPeS)	ug/Kg	537					_				
Perfluorohexanesulfonic acid (PFHxS)	ug/Kg	537									
Perfluoroheptanesulfonic Acid (PFHpS)	ug/Kg	537									
Perfluorooctanesulfonic acid (PFOS)	ug/Kg	537		1260	<u>16,400</u>						
Perfluorononanesulfonic acid (PFNS)	ug/Kg	537									
Perfluorodecanesulfonic acid (PFDS)	ug/Kg	537									
Perfluorododecanesulfonic acid (PFDoS)	ug/Kg	537									
Perfluorooctanesulfonamide (FOSA)	ug/Kg	537					-				
NEtFOSA	ug/Kg	537									
NMeFOSA	ug/Kg	537					-				
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ug/Kg	537					-				
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ug/Kg	537									
NMeFOSE	ug/Kg	537									
NEtFOSE	ug/Kg	537									
4:2 FTS	ug/Kg	537					_				
6:2 FTS	ug/Kg	537					-				
8:2 FTS	ug/Kg	537									
10:2 FTS	ug/Kg	537									
DONA	ug/Kg	537									
HFPO-DA (GenX)	ug/Kg	537									
F-53B Major	ug/Kg	537									
F-53B Minor	ug/Kg	537									

(1) From WDNR RCLs Worksheet dated December 2018

Italicized values exceed Groundwater Protection, Non-Industrial Direct Contact, or Industrial Direct-Contact RCLs

BOLD values exceed Groundwater Protection, Non-Industrial Direct Contact, or Industrial Direct-Contact RCLs

<u>BOLD Underlined</u> values exceed Groundwater Protection, Non-Industrial Direct Contact, or Industrial Direct-Contact RCLs

- --- = Not analyzed / No established standard
- J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value
- F1 = Matrix spike and/or matrix spike duplicate recovery exceeds control limits

F2 MS/MSD RPD exceeds control limits

V Serial Dilution exceeds the control limits

- B = Compound was found in the blank and sample
- \*+ = Laboratory conrol sample and/or laboratory control sample duplicate is outside acceptance limits, high biased
- \* = Laboratory control sample and/or laboratory control sample duplicate is outside acceptance limits
- \*\* = Combined established standard of 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene
- \*\*\* = Combined established standard for NR 720 RCLs for groundwater protection



#### TABLE 2 GROUNDWATER ELEVATION DATA

## COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK MILWAUKEE, WI

PROJECT NUMBER: 40441

Well ID	Units	EB	-MW-1	EB	3-MW-2	E	B-MW-3	EB-	-MW3*	EB-N	/IW-3R	EE	3-MW-4	EE	3-MW-4R	EB-M	W-4RR	El	B-MW-5	EE	3-MW-6
Date Installed		5/	5/2021	6/	3/2021	7	/21/2021	7/2	1/2021	7/19	9/2022	7/2	21/2021	11	/29/2021	7/19	9/2022	6	/3/2021	7/2	20/2021
Ground Elevation	Feet	68	36.592	68	35.932		684.66	68	3.822	683	3.773		685.1		684.35	68	4.35	6	80.026	6	76.102
TOC Elevation	Feet	68	39.625	68	35.512		687.727	68	3.748	682	2.285	6	88.074		686.60	68	0.11	6	82.848	6	75.713
TOS Elevation	Feet	67	77.662	6	81.01		674.66	67	73.82	66	4.04	(	671.6		674.35	67	2.91	6	373.946	6	64.602
BOS Elevation	Feet	66	62.662	6	66.01		664.66	66	64.66	64	9.04	6	656.60		659.35	65	7.91	(	663.94	6	649.60
Screen Height	Feet		15		10		15		15		15		15		15		15		10		15
DATE		DTW (TOC)	GROUNDWATER ELEVATION	DTW	GROUNDWATER ELEVATION	DTW	GROUNDWATER ELEVATION	DTW	GROUNDWATER ELEVATION	DTW	GROUNDWATER ELEVATION	DTW	GROUNDWATER ELEVATION	DTW	GROUNDWATER ELEVATION	DTW	GROUNDWATER ELEVATION	DTW	GROUNDWATER ELEVATION	DTW	GROUNDWATER ELEVATION
5/18/2021		DRY																			
6/10/2021		DRY																			
6/22/2021		DRY		7.97	677.54													12.51	670.34		
6/30/2021		DRY		7.75	677.76													12.54	670.31		
7/20/2021		DRY		7.99	677.52													12.74	670.11		
7/29/2021		DRY		8.12	677.39	DRY						27.21	660.86					12.87	669.98	24.89	650.82
8/19/2021		DRY		7.85	677.66	22.44	665.29					Broke	n/Damaged					11.50	671.35	23.80	651.91
8/25/2021		DRY				22.44	665.29					Broke	n/Damaged							23.71	652.00
11/12/2021		DRY		Broker	n/Damaged	22.69	665.04					Aba	andoned					12.43	670.42	21.51	654.20
11/29/2021		DRY		Broker	n/Damaged	22.69	665.04					Aba	andoned								
12/13/2021		DRY		Broker	n/Damaged	DRY						Aba	andoned	25.81	660.79						
3/10/2022		DRY		Broker	n/Damaged	DRY						Aba	andoned	25.67	660.93			13.55	669.30	21.21	654.50
3/30/2022		DRY		7.97	677.54							Aba	andoned								
8/4/2022		DRY		8.17	677.34			DRY		DRY		Aba	andoned	Ab	andoned	20.44	659.67	11.93	670.92	19.40	656.31
11/14/2023		DRY		8.61	676.90							Aba	andoned	Ab	andoned	21.40	658.71	17.50	665.35	23.40	652.31

Notes:
DTW= Depth to Water TOC=Top of Casing TOS=Top of Screen BOS= Bottom of Screen

\* = Converted from a stickup pipe to a flushmount cover.
---- = Not Measured



2 1	1		1				EB-B-18/MW-2 <sup>1</sup>			ED MW 2	EB-B-20/MW-4	1	EB-B-20A/MW-4R		MW-4RR	D 03	MW-4RR			EB-B-21/MW-5			EB-B-27	7/M/M 6	DUP-12		EB-B-27/MW-6		Trip Blank Trip Blank Trip Blank	Trin Blank   Trin	Plank Trin Plank Trin F
Sample Date	Units	EPA Method	NR 140	PAL NR 140	ES	0/2021	3/30/2022	8/4/2022	11/14/2023	11/29/2021	7/29/2021	12/14/2021	3/10/2022	3/30/2022	8/4-5/2022	Dup-2 <sup>3</sup> 8/5/2022	11/14/2023	6/30/2021	11/12/22021		8/5/2022	11/14/2023	8/25/2021	11/12/2021	11/12/2021	3/10/2022	8/5/2022	11/14/2023	6/30/2021 7/29/2021 8/25/2021		
Volatile Organic Compounds (VOCs)				_	0101	0/2021	0/00/2022	01472022	11/14/2020	11/23/2021	TIESTEUET	12/14/2021	3/10/2022	0/00/2022	0/4-0/2022	0/3/2022	11/14/2020	0/30/2021	11/12/22021	0/10/2022	USIZUZZ	11/14/2020	GIZGIZGZT	11/12/2021	11/12/2021	0/10/2022	0/0/2022	11/14/2020	0/00/2021 1/23/2021 0/20/2021	11/21/2021 11/20	72021 0/10/2022 0/00/2
1,1,1,2-Tetrachloroethane	ug/L	8260C	7	70		0.46	<0.46	<0.92	<0.46	<0.46	<0.46	<0.46	<0.46		<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46 <0.46 <0.46	<0.46 <0	0.46 <0.46 <0.4
1,1,1-Trichloroethane	ug/L	8260C	40	200		10	3.5	3.7	3.2	1.1	<0.38	<0.38	<0.38		<0.38	<0.38	<0.38	<0.38	< 0.38	< 0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	< 0.38	<0.38	<0.38 <0.38 <0.38		0.38 <0.38 <0.3
1,1,2,2-Tetrachloroethane	ug/L	8260C	0.02			0.40	<0.40	<0.80	<0.40	< 0.40	<0.40	<0.40	< 0.40		<0.40	<0.40	<0.40	<0.40	< 0.40	< 0.40	< 0.40	<0.40	<0.40	< 0.40	<0.40	<0.40	<0.40	<0.40	<0.40 <0.40 <0.40		0.40 <0.40 <0.4
1,1,2-Trichloroethane	ug/L	8260C	0.5	5	<	0.35	< 0.35	< 0.70	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35		< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	<0.35 <0.35 <0.35	<0.35 <0	0.35 < 0.35 < 0.3
1,1-Dichloroethane	ug/L	8260C	85			32	14	34	21	330	<0.41	<0.41	<0.41		<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	< 0.41	<0.41	<0.41	<0.41	<0.41	< 0.41	<0.41	<0.41	<0.41 <0.41 <0.41	<0.41 <0	0.41 <0.41 <0.4
1,1-Dichloroethene	ug/L	8260C	0.7	7	<	0.39	< 0.39	<0.78	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39		< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	<0.39 <0.39 <0.39	<0.39 <0	0.39 <0.39 <0.3
1,1-Dichloropropene	ug/L	8260C			<	:0.30	< 0.30	< 0.59	< 0.30	< 0.30	<0.30	< 0.30	<0.30		<0.30	<0.30	<0.30	< 0.30	< 0.30	< 0.30	<0.30	< 0.30	< 0.30	< 0.30	<0.30	< 0.30	< 0.30	< 0.30	<0.30 <0.30 <0.30	<0.30 <0	0.30 <0.30 <0.3
1,2,3-Trichlorobenzene	ug/L	8260C		-	<	0.46	<0.46	<0.92	< 0.46	<0.46	< 0.46	<0.46	<0.46		<0.46	<0.46	<0.46	<0.46	< 0.46	<0.46	<0.46	<0.46	< 0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46 <0.46 <0.46	<0.46 <0	0.46 <0.46 <0.4
1,2,3-Trichloropropane	ug/L	8260C	12			0.41	<0.41	<0.83	<0.41	<0.41	<0.41	<0.41	<0.41		<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41 <0.41 <0.41		0.41 <0.41 <0.4
1,2,4-Trichlorobenzene	ug/L	8260C	14		<	0.34	<0.34	<0.68	< 0.34	<0.34	<0.34	<0.34	<0.34		<0.34	<0.34	<0.34	<0.34	<0.34	< 0.34	<0.34	<0.34	<0.34	<0.34	< 0.34	<0.34	<0.34	<0.34	<0.34 <0.34 <0.34		0.34 <0.34 <0.3
1,2,4-Trimethylbenzene*	ug/L	8260C	96			350	48	200 B	52	<0.36	<0.36	<0.36	<0.36		0.73 J B	0.74 J B	<0.36	0.45 J	<0.36	< 0.36	0.75 J B	<0.36	<0.36	<0.36	<0.36	<0.36	0.80 J B	<0.36	<0.36 <0.36 <0.36		0.36 <0.36 <0.3
1,2-Dibromo-3-Chloropropane	ug/L	8260C	0.02			<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 <2.0 *- <2.0		2.0 <2.0 <2.0
1,2-Dibromoethane	ug/L	8260C	0.00			0.39	<0.39	<0.77	<0.39	<0.39	<0.39	<0.39	<0.39		<0.39	<0.39	<0.39	< 0.39	<0.39	< 0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39 <0.39 <0.39		0.39 <0.39 <0.3
1,2-Dichlorobenzene	ug/L	8260C	60			0.33	<0.33	< 0.67	<0.33	<0.33	<0.33	<0.33	<0.33		<0.33	<0.33	<0.33	< 0.33	<0.33	< 0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33 <0.33 <0.33		0.33 <0.33 <0.3
1,2-Dichloroethane	ug/L	8260C	0.5			0.39	<0.39	<0.78	<0.39	< 0.39	<0.39	<0.39	<0.39		<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	< 0.39	<0.39	<0.39	<0.39	<0.39 <0.39 <0.39		0.39 < 0.39 < 0.3
1,2-Dichloropropane	ug/L	8260C	0.5		-	0.43	<0.43	<0.86	<0.43	<0.43	<0.43	<0.43	<0.43		<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43 <0.43 <0.43		0.43 <0.43 <0.4
1,3,5-Trimethylbenzene*	ug/L	8260C	96			150	12	60 B	13	<0.25	<0.25	<0.25	<0.25		<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	0.78 J B	<0.25	<0.25	<0.25	<0.25	<0.25	0.79 J B	<0.25	<0.25 <0.25 <0.25		0.25 <0.25 <0.2
1,3-Dichlorobenzene	ug/L		60			0.40	<0.40	<0.80	<0.40	<0.40	<0.40	<0.40	<0.40		<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40 <0.40 <0.40		0.40 <0.40 <0.4
1,3-Dichloropropane	ug/L	8260C				0.36	<0.36	<0.72	<0.36	<0.36	<0.36	<0.36	<0.36		<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36 <0.36 <0.36		0.36 <0.36 <0.3
1,4-Dichlorobenzene	ug/L	8260C	15			0.36	<0.36	<0.73	<0.36	<0.36	<0.36	<0.36	<0.36		<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36 <0.36 <0.36		0.36 <0.36 <0.3
2,2-Dichloropropane	ug/L	8260C				0.44	<0.44	<0.89	<0.44	<0.44	<0.44	<0.44	<0.44		<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44 <0.44 <0.44		0.44 <0.44 <0.4
2-Chlorotoluene	ug/L	8260C				0.31	<0.31	< 0.63	<0.31	<0.31	<0.31	<0.31	<0.31		<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31 <0.31 <0.31		0.31 <0.31 <0.3
4-Chlorotoluene	ug/L	8260C				0.35	<0.35	<0.70	<0.35	<0.35	<0.35	<0.35	<0.35		<0.35	<0.35	<0.35	<0.35	< 0.35	< 0.35	<0.35	< 0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35 <0.35 <0.35		0.35 < 0.35 < 0.3
Benzene	ug/L	8260C	0.5			57	5.1	30	6.8	<0.15	<0.15	<0.15	<0.15		<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15 <0.15 <0.15 <0.36 <0.36 <0.36		0.15 <0.15 <0.1 0.36 <0.36 <0.3
Bromobenzene	ug/L	8260C 8260C				0.36	<0.36 <0.43	<0.71	<0.36	<0.36 <0.43	<0.36	<0.36	<0.36		<0.36	<0.36	<0.36 <0.43	<0.36	<0.36 <0.43	<0.36 <0.43	<0.36 <0.43	<0.36 <0.43	<0.36 <0.43	<0.36	<0.36 <0.43	<0.36	<0.36	<0.36	<0.36 <0.36 <0.36 <0.43 <0.43 <0.43		0.36 <0.36 <0.3 0.43 <0.43 <0.4
Bromochloromethane	ug/L	8260C	0.06			0.43	<0.43	<0.00	<0.43	<0.43	<0.43	<0.43	<0.43		<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.37 <0.37 <0.37		0.43 <0.43 <0.4
Bromodichloromethane Bromoform	ug/L	8260C	0.44			0.48	<0.80	<1.6	<0.48	<0.48	<0.48	<0.48	<0.80		<0.40	<0.80	<0.48	<0.37	<0.37	<0.40	<0.80	<0.48	<0.37	<0.48	<0.48	<0.40	<0.40	<0.48	<0.48 <0.48 <0.48		0.48 <0.80 <0.8
Bromomethane	ug/L ug/L		0.44			.80 *+	<0.38	<0.77	<0.40	<0.46	<0.80	<0.80	<0.38		<0.38	<0.38	<0.80	<0.80 *+	<0.40	<0.38	<0.38	<0.40	<0.80	<0.46	<0.40	<0.38	<0.88	<0.80	<0.80 <0.80 <0.80		0.80 <0.38 <0.3
Carbon tetrachloride	ug/L	8260C	0.5			0.38	<0.39	<0.77	<0.38	<0.38	<0.38	<0.38	<0.39		<0.39	<0.39	<0.38	<0.38	<0.38	<0.39	<0.39	<0.38	<0.38	<0.38	<0.38	<0.39	<0.39	<0.38	<0.38 <0.38 <0.38		0.38 < 0.39 < 0.3
Chlorobenzene	ug/L	8260C				0.39	5.6	18	<0.39	<0.39	<0.39	<0.39	<0.51		<0.51	<0.51	<0.39	<0.39	<0.39	<0.51	<0.51	<0.39	<0.39	<0.39	<0.39	<0.51	<0.51	<0.39	<0.39 <0.39 <0.39		0.39 < 0.51 < 0.5
Chloroethane	ug/L	8260C	80			10	<0.37	<0.74	7.6	<0.51	<0.51	<0.51	<0.37		<0.37	<0.37	<0.51	<0.51	<0.51	<0.37	<0.37	<0.51	<0.51	<0.51	<0.51	<0.37	<0.37	<0.51	<0.51 <0.51 <0.51		0.51 <0.37 <0.3
Chloroform	ug/L	8260C	0.6			:0.37	<0.32	<0.64	<0.37	<0.37	<0.37	<0.37	<0.32		<0.32	<0.32	<0.37	<0.37	<0.37	<0.32	<0.32	<0.37	<0.37	<0.37	<0.37	<0.32	<0.32	<0.37	<0.37 <0.37 <0.37		0.37 <0.32 <0.3
Chloromethane	ug/L	8260C	3	30		0.32	3.1	11	<0.32	<0.32	<0.32	<0.32	<0.41		<0.41	<0.41	<0.32	<0.32	<0.32	<0.41	<0.41	<0.32	<0.32	<0.32	<0.32	<0.41	<0.41	<0.32	<0.32 <0.32 <0.32		0.32 <0.41 <0.4
cis-1,2-Dichloroethene	ug/L	8260C	7	70		66	<0.42	<0.83	5.4	340	<0.41	<0.41	<0.42		<0.42	<0.42	<0.41	<0.41	<0.41	<0.42	<0.42	<0.41	<0.41	<0.41	<0.41	<0.42	<0.42	<0.41	<0.41 <0.41 <0.41		0.41 <0.42 <0.4
cis-1.3-Dichloropropene	ug/L	8260C	0.04	0.4		0.42	<0.49	<0.98	<0.42	<0.42	<0.42	<0.42	<0.49		<0.49	<0.49	<0.42	<0.42	<0.42	<0.49	<0.49	<0.42	<0.42	<0.42	<0.42	<0.49	<0.49	<0.42	<0.42 <0.42 <0.42	<0.42 <0	0.42 <0.49 <0.4
Dibromochloromethane	ug/L		6			0.49	<0.27	<0.54	<0.49	<0.49	<0.49	<0.49	<0.27		<0.27	<0.27	<0.49	<0.49	<0.49	<0.27	<0.27	<0.49	<0.49	<0.49	<0.49	<0.27	<0.27	<0.49	<0.49 <0.49 <0.49		0.49 <0.27 <0.2
Dibromomethane	ug/L	8260C				0.27	< 0.37	<0.74	<0.27	< 0.27	< 0.27	< 0.27	< 0.37		< 0.37	< 0.37	<0.27	<0.27	< 0.27	< 0.37	< 0.37	< 0.27	<0.27	< 0.27	< 0.27	< 0.37	< 0.37	<0.27	<0.27 <0.27 <0.27		0.27 <0.37 <0.3
Dichlorodifluoromethane	ug/L	8260C	200	1,000	<	0.67	< 0.67	<1.3	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67		< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	<0.67 <0.67 <0.67	<0.67 <0	0.67 <0.67 <0.6
Ethylbenzene	ug/L	8260C	140	700	1	160	8.1	89	17	<0.18	<0.18	<0.18	<0.18		<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18 <0.18 <0.18	<0.18 <0	0.18 <0.18 <0.1
Hexachlorobutadiene	ug/L	8260C	0.1			0.45	<0.45	<0.89	<0.45	< 0.45	<0.45	<0.45	< 0.45		< 0.45	<0.45	<0.45	<0.45	<0.45	< 0.45	< 0.45	< 0.45	<0.45	< 0.45	< 0.45	<0.45	<0.45	<0.45	<0.45 <0.45 <0.45		0.45 <0.45 <0.4
Diisopropyl ether	ug/L	8260C		-		0.28	<0.28	<0.55	<0.28	<0.28	<0.28	<0.28	<0.28		<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28 <0.28 <0.28		0.28 <0.28 <0.2
Isopropylbenzene	ug/L	8260C		-		32	5.0	18	6.6	< 0.39	<0.39	< 0.39	< 0.39		< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	<0.39	< 0.39	<0.39 <0.39 <0.39	<0.39 <0	0.39 <0.39 <0.3
Methyl tert-butyl ether	ug/L	8260C	12	60	<	0.39	< 0.39	< 0.79	< 0.39	< 0.39	<0.39	< 0.39	< 0.39		< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	<0.39 <0.39 <0.39		0.39 <0.39 <0.3
Methylene Chloride	ug/L	8260C	0.5	5		8.8	<1.6	<3.3	2.8 J	<1.6	<1.6	<1.6	<1.6		<1.6	<1.6	2.2 J	11	3.3 J	<1.6	<1.6	1.9 J	<1.6	3.5 J	3.5 J	<1.6	<1.6	2.2 J	9.8 <1.6 <1.6	3.5 J 4.	.1 J <1.6 <1.6
Naphthalene	ug/L	8260C	10	100		31	3.7 B	22 B	4.7	< 0.34	< 0.34	<0.34	<0.34		< 0.34	<0.34	<0.34	< 0.34	<0.34	< 0.34	< 0.34	<0.34	<0.34	<0.34	< 0.34	<0.34	0.70 J B	<0.34	<0.34 <0.34 <0.34	<0.34 <0	0.34 <0.34 <0.3
n-Butylbenzene	ug/L	8260C		-	<	0.39	11	<0.78	13	<0.39	< 0.39	<0.39	< 0.39		< 0.39	< 0.39	<0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	<0.39	< 0.39	< 0.39	< 0.39	0.64 J B	< 0.39	<0.39 <0.39 <0.39	<0.39 <0	0.39 <0.39 <0.3
n-Propylbenzene	ug/L	8260C		-		58	8.4	28 B	10	<0.41	<0.41	<0.41	<0.41		<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	0.60 J B	<0.41	<0.41 <0.41 <0.41	<0.41 <0	0.41 <0.41 <0.4
p-Isopropyltoluene	ug/L	8260C				45	5.7	13 B	4.4	< 0.36	< 0.36	< 0.36	< 0.36		< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	0.72 J B	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	<0.36 <0.36 <0.36	<0.36 <0	0.36 <0.36 <0.3
sec-Butylbenzene	ug/L	8260C				36	8.0	16 B	8.2	<0.40	<0.40	<0.40	<0.40		<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40 <0.40 <0.40		0.40 <0.40 <0.4
Styrene	ug/L	8260C	10	100	<	0.39	<0.39	<0.77	<0.39	< 0.39	<0.39	< 0.39	< 0.39		< 0.39	0.83 J	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	<0.39	< 0.39	<0.39	< 0.39	< 0.39	< 0.39	<0.39 <0.39 <0.39		0.39 <0.39 <0.3
tert-Butylbenzene	ug/L	8260C	1	-		4.8	1.6	<0.80	<0.40	<0.40	<0.40	<0.40	<0.40		<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40 <0.40 <0.40	<0.40 <0	0.40 <0.40 <0.4
Tetrachloroethene	ug/L	8260C	0.5			1	< 0.37	<0.74	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37		< 0.37	< 0.37	<0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	<0.37 <0.37 <0.37		0.37 <0.37 <0.3
Toluene	ug/L	8260C	160			19	0.59	7.0	0.92	<0.15	<0.15	<0.15	<0.15		<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	0.21 J	<0.15	<0.15 <0.15 <0.15		0.15 <0.15 <0.1
trans-1,2-Dichloroethene	ug/L	8260C	20			3	<0.35	1.6 J	< 0.35	2.8	< 0.35	< 0.35	< 0.35		< 0.35	< 0.35	< 0.35	<0.35	< 0.35	< 0.35	<0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	<0.35 <0.35 <0.35		0.35 < 0.35 < 0.3
trans-1,3-Dichloropropene	ug/L	8260C	0.04		_	0.36	<0.36	<0.72	<0.36	<0.36	<0.36	< 0.36	<0.36		<0.36	< 0.36	<0.36	<0.36	<0.36	< 0.36	<0.36	<0.36	<0.36	<0.36	< 0.36	<0.36	< 0.36	<0.36	<0.36 <0.36 <0.36		0.36 < 0.36 < 0.3
Trichloroethene	ug/L	8260C	0.5			11	4.5	8.4	11	26	<0.16	<0.16	<0.16		<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16 <0.16 <0.16		0.16 <0.16 <0.1
Trichlorofluoromethane	ug/L	8260C			_	0.43	<0.43	<0.85	<0.43	<0.43	<0.43	<0.43	<0.43		<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	< 0.43	<0.43	<0.43	<0.43	< 0.43	<0.43	<0.43	<0.43	<0.43 <0.43 <0.43		0.43 <0.43 <0.4
Vinyl chloride	ug/L	8260C	0.02			0.20	<0.20	7.2	<0.20	<0.20	<0.20	<0.20	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20 <0.20 <0.20		0.20 <0.20 <0.2
Total Xylenes	ug/L	8260C	400	2,000		320	16	140	20	<0.22	<0.22	<0.22	<0.22		0.31 J	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	0.35 J	<0.22	<0.22 <0.22 <0.22	<0.22 <0	0.22 <0.22 <0.2
Notes:																															

Notes:

Notes: Allois = Exceeds Wisconsin Administrative Code (WAC) NR 140 Preventive Action Limits (PAL), July 2023

Bold = Exceeds WAC NR 140 Enforcement Standard (ES), July 2023

No Established Standard/Not Sampled

ugl.r Results expresses of in microigrams per liter (ugl.)

\*\* The combined total of 1.2.4 and 1.3.5-TMB

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

B = Compound was found in the blank and sample

Methylene Chloride is a lab artifact, indicated by detections in the trip blanks 1 - Incorrectly labeled in the 6/30/2021 analytical lab report as EB-B-17/MW-2 3 - Dup-2 is of MW-4RR

Western Service Servic	Sample	Units	EPA Method	NR 140	PAL NR 140 I	ES	EB-B-18/MW-2	0/4/2022	44/44/2022	EB-MW-3	EB-B-20/MW-4	10/14/10001	EB-B-20A/MW-4R	3/30/2022	MW-4		6/20/2024	44/42/22024	EB-B-21/MW-5	0/5/0000	44/44/2022	8/25/2021		3-B-27/MW-6	0/5/2022 44/	14/2022
STORMAN S. 90 M. M. 10 M						0/30/2021	3/30/2022	0/4/2022	11/14/2023	11/29/2021	1129/2021	12/14/2021	3/10/2022	3/30/2022	0/4-5/2022	11/14/2023	0/30/2021	11/12/22021	3/10/2022	0/3/2022	11/14/2023	0/23/2021	11/12/2021	3/10/2022	0/3/2022 11/	4/2023
Selection of the control of the cont	1,2,4-Trichlorobenzene	ug/L	8270D	14	70						<0.18	<0.18		<0.19	<0.19											
Affective Affect	1,2-Dichlorobenzene		8270D	60	600		-				<0.18	<0.18		<0.20	<0.19											
Several Section							_						_						1							
7 April Service 1																										
CAPERION AND SECTION OF THE PROPERTY OF THE PR								+					_						1			-				
14 Margares   1   776				_									+													
Column   C										-														-		_
Canada	2,4-Dichlorophenol		8270D	-	-	-	_											-						-		_
Career   C							-					-1.0					-							-		
Series 16 197 197 197 198 198 199 199 199 199 199 199 199 199																		+	1							
STATEMENT SALES AND STATEM																										
Several (1) 196 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1								+					+					+								
Segregation   9							_																			
Standard Sg. 1800	2-Methylnaphthalene		8270D	-		-	_					< 0.049			0.084 J			-						-		_
Second   Green   Control	2-Methylphenol				-		-										-							-		
1414Marke				_						-														-		
Adella				_																				-		
March   Marc								+					+					+								
Company	3-Nitroaniline					<del>-</del>												+			l -					
September 19	4,6-Dinitro-2-methylphenol			_				-								-						-				
Company   Comp	4-Bromophenyl phenyl ether		8270D		-		-		-							-		-			-			-		
Schwiegerighter 9   930   10   10   10   10   10   10   10	4-Chloro-3-methylphenol	ug/L							-							-					-					
STATEMEN DE DE LE COLLEGE DE L	4-Chloroaniline																									
Activity of the control of the contr																										
Sandfare    M.   1870				_		+ -				_									1							
Sementary (g. 100) 2 - 2 - 3 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4						_	_																			
Harst Will STOR 1970 1970 1970 1970 1970 1970 1970 1970	Acenaphthylene							+					_					+								
markeymen	Anthracene		8270D	300	0 600																		-			
incollaboration of \$70 \$70 \$70 \$70 \$70 \$70 \$70 \$70 \$70 \$70	Benzo[a]anthracene		8270D								<0.042	< 0.042		<0.046	0.12 J		-						-	-		
The complete products of the complete of the c	Benzo[a]pyrene						-										-							-		
Tree-property of the control of the																										
STATE STATE OF STATE																		+	1							
September 19.1 19.7																										
Control   Cont	Benzyl alcohol							+					+					+				1				
Part	Bis(2-chloroethoxy)methane		8270D		-							<0.21			<0.22								-			
Color   Colo	Bis(2-chloroethyl)ether	ug/L		_						-	<0.22	<0.22												-		
Professor   1985																										
Provided 1976 1979 1979 1979 1979 1979 1979 1979				_																				-		
100   100							_																			_
Description   Section	Dibenz(a,h)anthracene							+					+					+								
The probabilities of the control of	Dibenzofuran				-																		-			
la has jurphysides    sign   1	Diethyl phthalate				-					-														-		-
Proceeding   Spin   S	Dimethyl phthalate						_											+				1				
Normine   19\$   1970   80   400				_																						
Name will 8770 80 80 40																										
Insertentenemener wg l. 8770 0 1 1 1																							_			
International content   1.5	Hexachlorobenzene		8270D	0.1	1		-				< 0.059	< 0.059		<0.064	<0.062			_								
Part	Hexachlorobutadiene									-														-		
Interest (2.4 a) grower   ugl.   8770													_													
september								+					+						1							
significanteme upl. 82700 10 10 100							_						_			-										
Well-bready   100   10	Naphthalene			10		1							_			_		_	1							
Netwoodphelymene   Upl.   82700	Nitrobenzene						_										-	_					_	-	-	
Peter   Pete	N-Nitrosodi-n-propylamine	ug/L				-	_		-								-				-		-	-		
Phenomenterine   yyl.								+					+					+				1				
Person   Map   82700   8700						-																				
Pyreme upl. 8270 59 259						+ -				_																
Polycyclic Aromatic Hydrocathons (PAHs)								+					+													
	,	- ugiz	02.00		200						10.02	10.02		10.04	0.00 0											
		ug/L	8270D	T		2.7	<4.6	2.2	1.0 J		-					<0.23	<0.22	<0.23	<0.22	<0.25	<0.25	<0.24	<0.23	<0.24		0.24
Neeraphthylene   NgL   82700       0.56   447   0.47   4.025	2-Methylnaphthalene																									
Subtracemene   Ug/L   8270D   600   3000   0.31 J   5.1   0.53 J   5.6   0.56	Acenaphthene				-						_															
Senzo(a)anthracene	Acenaphthylene			_									+													
Nemzoglapyrene   Ug/L   82700   0.02   0.2   0.49   <1.5   0.57   <0.078   .																										
Serzo   Dispression				_																						
Perzogli, Diperylene   Ug/L   82700													+													
Perzo   Figuranthene   Ug/L   82700	Benzo[g,h,i]perylene																									
Service   Ug/L   Service   Service   Ug/L   Service	Benzo[k]fluoranthene		8270D		-				< 0.051															0.10 J		
Fluoranthene ugiL 8270D 80 400 1.4 <6.9 1.7 <0.36	Chrysene	ug/L								-	_															
Fluorene ug/L 8270D 80 400 0.46 J <3.7 0.54 J <0.19	Dibenz(a,h)anthracene																									
ndeng(1,2,3-cd)pyrene ug/L 82700 0.27 <1.1 0.26 <0.059 0.20 < 0.20 < 0.057 < 0.056 < 0.057 < 0.056 < 0.056 < 0.056 < 0.062 < 0.059 0.10 J 0.20 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0	Fluoranthene																									
Haphthalene     ug/L     8270D     10     100     14     12 J     12     4.0																										
Phenanthrene ug/L 8270D 1.4 <4.6 1.7 <0.24 <0.23 <0.22 <0.23 <0.22 <0.25 <0.25 <0.25 <0.24 <0.23 0.24 J 0.24 J 0.24 J 0.24 J 0.24 J 0.24 J 0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25				_																						
Pyrene ugl. 8270D 50 <b>250</b> 1.5 <6.5 1.9 <0.34 <0.32 <0.32 <0.32 <0.32 <0.32 <0.35 <0.35 <0.34 <0.32 <0.34 <0.34 <0.34 <0.34				_																						
	Pyrene																									
	Notes:																									

Notes:
Italics = Exceeds Wisconsin Administrative Code (WAC) NR 140 Preventive Action Limits (PAL), July 2023
Bold = Exceeds WAC NR 140 Enforcement Standard (ES), July 2023
-- No Established Standard/Not Sampled
ug/L= Results expresssed in microigrams per liter (ug/L)
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
B = Compound was found in the blank and sample

1 - Incorrectly labeled in the 6/30/2021 analytical lab report as EB-B-17/MW-2  $\,$ 



#### TABLE 5 GROUNDWATER QUALITY TEST RESULTS-RCRA METALS COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK MILWAUKEE, WI PROJECT NUMBER: 40441

	Sample	Lloito	EDA Mothod	NR 140 PAL	ND 140 ES		EB-B-18/	MW-2 <sup>1</sup>		EB-MW-3	EB-B-20/MW-4	EB	-B-20A/MW-	4R	MW	-4RR		Е	B-B-21/MW-5				E	B-B-27/MW-6	i	
	Date	UIIIIS	EFA MEMOU	NK 140 FAL	NK 140 E3	6/30/2021	3/30/2022 8	8/4/2022	11/14/2023	11/29/2021	7/29/2021	12/14/2021	3/10/2022	3/30/2022	8/4-5/2022	11/14/2023	6/30/2021	11/12/22021	3/10/2022	8/5/2022	11/14/2023	8/25/2021	11/12/2021	3/10/2022	8/5/2022	11/14/2023
Dissolved Resource Conservation and Recovery Act (RCRA) Metals																										
Arsenic		ug/L	6020A	1	10				0.92 J			0.92 J				0.34 J		0.65 J	0.85 J		0.56 J	4.5 B	1.6	1.5		0.68 J
Barium		ug/L	6020A	400	2000				130			140 B				68		150	120		45	150	49	30		15
Cadmium		ug/L	6020A	0.5	5				<0.17			<0.17				0.20 J		<0.17	<0.17		<0.17	<0.17	<0.17	0.19 J		0.28 J
Chromium		ug/L	6020A	10	100				<1.1			<1.1				<1.1		2.6 J	<1.1		<1.1	<1.1	<1.1	<1.1		<1.1
Lead		ug/L	6020A	1.5	15				0.47 J B			<0.19				0.62 B		1.3	<0.19		1.4 B	0.34 J B	0.21 J	<0.19		1.1 B
Selenium		ug/L	6020A	10	50				<0.98			4.8				<0.98		26	23		12	2.5	<0.98	<0.98		<0.98
Silver		ug/L	6020A	10	50				<0.12			<0.12				<0.12		<0.12	<0.12		<0.12	<0.12	<0.12	<0.12		<0.12
Mercury		ua/L	7470A	0.2	2				<0.079			< 0.098				< 0.079		<0.098	< 0.098		<0.079	<0.098	<0.098	<0.098		< 0.079

Italics = Exceeds Wisconsin Administrative Code (WAC) NR 140 Preventive Action Limits (PAL), July 2023

Bold = Exceeds WAC NR 140 Enforcement Standard (ES), July 2023

--- Not Sampled

ug/L= Results expresssed in micrograms per liter (ug/L)
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

B = Compound was found in the blank and sample

1 - Incorrectly labeled in the 6/30/2021 analytical lab report as EB-B-17/MW-2



# TABLE 6 GROUNDWATER QUALITY TEST RESULTS-PCBs COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK MILWAUKEE, WI PROJECT NUMBER: 40441

Sample	Unite	EDA Mothod	NR 140 PAL	ND 140 ES		EB-B-18	8/MW-2 <sup>1</sup>		EB-MW-3	EB-B-20/MW-4	EB	8-B-20A/MW-	4R	MW-	-4RR		EB	-B-21/MW-5	j				EB-B-27/MV	V-6	
Date	Date		NN 140 FAL	NK 140 E3	6/30/2021	3/30/2022	8/4/2022	11/14/2023	11/29/2021	7/29/2021	12/14/2021	3/10/2022	3/30/2022	8/4-5/2022	11/14/2023	6/30/2021	11/12/22021	3/10/2022	8/5/2022	11/14/2023	8/25/2021	11/12/2021	3/10/2022	8/5/2022	11/14/2023
Polychlorinated Biphenyls (PCBs)																									
PCB-1016	ug/L	8082A	0.03	0.003		<0.064	<0.13	<0.18					<0.065	< 0.065	<3.5			<0.065	<0.062	<0.18		-	< 0.063	<0.062	<0.18
PCB-1221	ug/L	8082A	0.03	0.003		<0.19	<0.38	<0.18					<0.19	<0.19	<3.5			<0.19	<0.19	<0.18		-	<0.19	<0.19	<0.18
PCB-1232	ug/L	8082A	0.03	0.003	-	<0.19	<0.38	<0.18					<0.19	<0.19	<3.5			<0.19	<0.19	<0.18		1	<0.19	<0.19	<0.18
PCB-1242	ug/L	8082A	0.03	0.003		<0.19	<0.38	<0.18					<0.19	<0.19	<3.5			<0.19	<0.19	<0.18		-	<0.19	<0.19	<0.18
PCB-1248	ug/L	8082A	0.03	0.003		<0.19	4.3	0.31 J					<0.19	<0.19	<3.5			<0.19	<0.19	<0.18		-	<0.19	<0.19	<0.18
PCB-1254	ug/L	8082A	0.03	0.003	-	1.6	<0.38	<0.25					<0.19	<0.19	<5.0			<0.19	<0.19	<0.26		1	<0.19	<0.19	<0.25
PCR-1260	ua/l	8082A	0.03	0.003		<0.067	<0.13	<0.25					<0.068	<0.068	56			<0.068	<0.065	<0.26			<0.066	<0.065	<0.25

#### Notes:

Italics = Exceeds Wisconsin Administrative Code (WAC) NR 140 Preventive Action Limits (PAL), July 2023

Bold = Exceeds WAC NR 140 Enforcement Standard (ES), July 2023

--- No Established Standard/Not Sampled

ug/L= Results expresssed in micrograms per liter (ug/L)

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

1 - Incorrectly labeled in the 6/30/2021 analytical lab report as EB-B-17/MW-2



### **ATTACHMENTS**



## **ATTACHMENT A**

Soil Boring Logs and Borehole Abandonment Forms



	SOIL BORING LOG															
PROJ	ECT NA	AME:	CWC - East Block	G	ROU	ND SU	JRFACE EL	EVATION	l:			DAT	E BEGA	N:	3/21/2023	
DRILL	. EQUIF	P:	Geoprobe	N	ORT	H:						DAT	E FINIS	HED:	3/21/2023	
DRILL	ER:		Scot Klump	E	AST:							PRO	JECT N	0:	40441	
DRILL	ING M	ETHOD:		С	HEC	KED B	Y:	Robert Reineke, P.E.				BOR	ING NO	):	EB-MW-1R1	
сонт	RACTO	OR:	Subsurface Exploration Services, LLC	F	IELD	ENGI	NEER:	Dan Pelcz	zar							
Elevation (FT)	Depth (FT)		Description	Graphic Profile	Graphic Well Profile	nscs	SPT Blows Per 6"	N-Value	Sample Number	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Percent Passing Sieve 200	Remarks/ PID	Qp (penetrometer, tsf)
0.0	0.0	Blind dri	lled to 26.5 feet below grade.													
-5.0	5.0	- - - -														
-10.0	10.0	- - - -														
-15.0	15.0	- - - -														
-20.0	20.0	- - -														
-25.0	25.0	End of b	oring at 26.5 feet below grade. ned in accordance with WDNR NR 141.	- -												
K	Sin	gh	Scientists		1 OF O:	1 EB-MV	 V-1R1			DTW	WHILE D	RILLING				

#### SOIL BORING LOG **GROUND SURFACE ELEVATION:** PROJECT NAME: DATE BEGAN: 3/21/2023 CWC - East Block **DRILL EQUIP:** NORTH: DATE FINISHED: Geoprobe 3/21/2023 DRILLER: EAST: PROJECT NO: 40441 Scot Klump **DRILLING METHOD: CHECKED BY:** Robert Reineke, P.E. **BORING NO:** EB-MW-1R2 CONTRACTOR: FIELD ENGINEER: Dan Pelczar Subsurface Exploration Services, LLC Percent Passing Sieve 200 tsf) Description Graphic Well Profile Moisture Content % Recovered (Inches) Qp (penetrometer, SPT Blows Per 6" Plastic Limit (PL) Sample Number Liquid Limit (LL) Remarks/ PID Elevation (FT) Depth (FT) N-Value **USCS** Blind drilled to 28 feet below grade. -5.0 5.0 -10.0 10.0 -15.0 15.0 -20.0 20.0 -25.0 25.0 Sample 28-30' SILTY CLAY (CL) - Dark gray, moist with trace 13-27-25-32 57 1-SS 24 gravel. SM -30.0 30.0 SILTY SAND (SM) - Moist to dry, very dense, fine grained. SM 46-54 100 2-SS 1.2 -35.0 35.0 SILTY SAND (SM) - Moist, gray, trace gravel. DTW WHILE DRILLING: PAGE 1 OF 2 DTW AFTER DRILLING: BORING NO: EB-MW-1R2

DTW AFTER 24 HRS:

#### SOIL BORING LOG PROJECT NAME: **GROUND SURFACE ELEVATION:** DATE BEGAN: 3/21/2023 CWC - East Block **DRILL EQUIP:** NORTH: DATE FINISHED: Geoprobe 3/21/2023 DRILLER: EAST: PROJECT NO: 40441 Scot Klump **DRILLING METHOD: CHECKED BY:** Robert Reineke, P.E. **BORING NO:** EB-MW-1R2 CONTRACTOR: FIELD ENGINEER: Dan Pelczar Subsurface Exploration Services, LLC Percent Passing Sieve 200 tst) Description Moisture Content % Graphic Well Profile Recovered (Inches) Qp (penetrometer, SPT Blows Per 6" Plastic Limit (PL) Sample Number Liquid Limit (LL) Remarks/ PID Elevation (FT) Depth (FT) N-Value **USCS** SM 46-54 100 3-SS 12 -40.0 40.0 SILTY SAND (SM) - Moist, very dense with fine to coarse dolomite gravel. SM 100 100 4-SS 9 -45.0 45.0 SM 100 5-SS 100 9 -50.0 50.0 SILT (ML) - Moist, very stiff, grayish brown, with trace fine to coarse gravel. ML100 100 6-SS 4 -55.0 55.0 83-17 ML100 **7-SS** 6.5 -60.0 60.0 Sample 63-65' $\mathsf{ML}$ 78-22 100 **8-SS** 7 65.0 SANDY SILT (SM) - Moist, very dense, greyish brown, with trace fine to coarse gravel. SM 100 100 9-SS 3.5 -70.0 70.0 End of boring at 70 feet below grade. Abandoned in accordance with WDNR NR 141 DTW WHILE DRILLING: PAGE 2 OF 2 DTW AFTER DRILLING:

BORING NO: EB-MW-1R2

DTW AFTER 24 HRS:

	SOIL BORING LOG															
PROJ	ECT NA	AME:	CWC - East Block				IRFACE E					DAT	E BEGA	N:	3/21/2023	
DRILL	EQUIF	P:	Geoprobe	N	ORT	H:						DAT	E FINIS	HED:	3/21/2023	
DRILL	ER:		Scot Klump	E	AST:							PRC	JECT N	O:	40441	
DRILL	ING MI	ETHOD:		c	HEC	KED B	Y:	Robert R	eineke, f	P.E.		BOF	RING NO	):	EB-MW-7	
CONT	RACTO	DR:	Subsurface Exploration Services, LLC	F	IELD	ENGI	NEER:	Dan Pelo	zar							
Elevation (FT)	Depth (FT)		Description	Graphic Profile	Graphic Well Profile	nscs	SPT Blows Per 6"	N-Value	Sample Number	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Percent Passing Sieve 200	Remarks/ PID	Qp (penetrometer, tsf)
							1		ı	1				ı	•	
0.0	0.0	CLAY (C gravel.	L) - Brown, moist, soft with trace fine			CL										0.5
		medium	consistency, with trace fine gravel.  pring at 2 feet below grade. Hit concreecto, potential vault. Abandoned in the with WDNR NR 141.	ete		CL			1-SS							1
										DTIA	/ WHILE D	DII LINO				

KSingh Engineers Scientists Consultants

PAGE 1 OF 1 - BORING NO: EB-MW-7

DTW WHILE DRILLING: DTW AFTER DRILLING: DTW AFTER 24 HRS: State of Wis., Dept. of Natural Resources dnr.wi.gov

Street or Route

City

Madison

1102 Stewart St.

## Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Verification Only		Drinking	Water		Watersh	hed/Wa	■ Re	Remediation/Redevelopment							
				Waste N	/lanageme	nt	Other:			_					
1. Well Location Inforr	nation					2. Faci	ility / Owne	er Info	rmation						
	WI Unique We		Hica	ар #		Facility									
Milwaukee	Removed We	II				Community Within the Corridor - East Block  Facility ID (FID or PWS)									
Latitude / Longitude (see in	nstructions)	For	nat Cod		od Code	24102	•	vv3)							
		N   [ W   [	■ DD □ DDM		GPS008 SCR002 OTH001		e/Permit/Moni	itoring :	#						
1/4 / 1/4	Sect	ion	Townsh	ip Rang	je	_	l Well Owner								
or Gov't Lot #				N	w		s Compa								
Well Street Address	· · · · ·						t Well Owner								
2748 M. 32nd St							Compani		0						
Well City, Village or Town				Well ZIP Co	ode	1	Address of P Cheshire Lr								
Milwaukee	53210		1	Present Own			State		IP Code						
Subdivision Name	_ot #		1 1	etonka	eı		MN		55305						
Cawker's								Screer	n, Casing & S						
Reason for Removal from S	Service WI	Unique	/Vell # of	f Replacem	ent Well		p and piping			Jeaning II	Ye		N/A		
Auger refusal	L / B :!!! . I . /		1. 1.6		_		r(s) removed?				Ye	=	N/A		
3. Filled & Sealed Well					(\000)		r(s) perforated				່ Ye	$\sqsubseteq$	N/A		
Monitoring Well	Monitoring Well Original Construction Date (mm/dd/y							>			່ Ye	s 📙 No	N/A		
Water Well				Casir	ng left in plac	ce?			Yes	s 🗌 No	N/A				
Borehole / Drillhole	Report is av	ailable,	Was	casing cut o	off below	v surface?		☐ Yes	s	■ N/A					
Description Type:							sealing mater				Yes	s 📙 No			
	Driven (Sandpo	int)		Dug		Did r	material settle	e after	24 hours?		Yes	s 📙 No	₩ N/A		
	onven (Sandpo	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Dug		1	If yes, was ho	ole reto	pped?		Yes	s 📙 No	■ N/A		
Other (specify):									sed, were they	hydrated	☐ Yes	s 🔳 No	□ N/A		
Formation Type:									safe source?			, <b>I</b>			
Unconsolidated Forma			edrock					7	g Sealing Mate						
Total Well Depth From Gro	und Surface (f	·	-	neter (in.)		1 —	onductor Pipe		- 🗀	ctor Pipe-P	•				
26.5		8.2	25				creened & Po Bentonite Chir		Other (	Explain):	ravity				
Lower Drillhole Diameter (in	n.)	Cas	ing Dept	th (ft.)		Sealing	Materials								
0		0				1 —	eat Cement (			Conc					
Was well annular space gro	uted?	Yes		No U	Jnknown	_			ete) Grout Monitoring Well		onite Chi	ips			
If yes, to what depth (feet)?	·	Depth to V	Vater (fe	eet)		1	entonite Chip		_	entonite - C	-	Grout			
, , , ,		> 26.5 (	•	•		l 🗀	·		느	entonite - S					
			, 41111110	••••			ranular Bento		No. Yards, Sa			Mix Ra	tio or		
5. Material Used to Fill	l Well / Drilli	nole				From	(ft.) To (	ft.)	Volume (c		l Oi	Mud W			
Soil/Mulch						0									
Blackhills Bentonite	9					0.5	5 26.	.5	6- sa	acks					
6. Comments															
EB-MW-1R1															
7. Supervision of Worl										DND	loo Or	ls.	-		
Name of Person or Firm Do	oing Filling & S	ealing	License	# 1	Date of Fill	ing & Sea	aling or Verifi	ication	Date Receive		Jse On Note	ed By			
Soils & Engineering S					(mm/dd/yy	-	3/22/202								

Telephone Number

State

WI

ZIP Code

53713

(608) 274-7600

Daniel Pelczar

Signature of Person Doing Work

Comments

Date Signed

3/22/2023

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

## Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015) Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information. Route to DNR Bureau: Drinking Water Watershed/Wastewater Remediation/Redevelopment Verification Only of Fill and Seal Other: Waste Management 1. Well Location Information 2. Facility / Owner Information WI Unique Well # of Hicap # County Facility Name Removed Well Community Within the Corridor - East Block Milwaukee Facility ID (FID or PWS) Latitude / Longitude (see instructions) Format Code Method Code 241025400 **GPS008** ■ DD Ν License/Permit/Monitoring # ■ SCR002 DDM W OTH001 1/4 / 1/4 1/4 Section Township Range Original Well Owner **Roers Companies** or Gov't Lot # W Present Well Owner Well Street Address Roers Companies 2748 M. 32nd St Mailing Address of Present Owner Well ZIP Code Well City, Village or Town 110 Cheshire Ln #120 53210 Milwaukee City of Present Owner ZIP Code State Subdivision Name Lot# Minnetonka MN 55305 Cawker's 4. Pump, Liner, Screen, Casing & Sealing Material Reason for Removal from Service WI Unique Well # of Replacement Well Pump and piping removed? Yes No Auger refusal Liner(s) removed? Yes No 🔳 N/A 3. Filled & Sealed Well / Drillhole / Borehole Information Liner(s) perforated? Yes No Original Construction Date (mm/dd/yyyy) Monitoring Well Screen removed? Yes No N/A 3/21/2023 Water Well Casing left in place? Yes No N/A If a Well Construction Report is available, Was casing cut off below surface? Borehole / Drillhole N/A Yes No please attach. Did sealing material rise to surface? Yes No N/A Construction Type: Did material settle after 24 hours? Yes No N/A Dug Drilled Driven (Sandpoint) If yes, was hole retopped? N/A Yes No Other (specify): If bentonite chips were used, were they hydrated Nο Yes Formation Type: with water from a known safe source? Required Method of Placing Sealing Material Unconsolidated Formation Bedrock Conductor Pipe-Gravity Conductor Pipe-Pumped Total Well Depth From Ground Surface (ft.) Casing Diameter (in.) Screened & Poured 70 Other (Explain):\_Gravity 8.25 (Bentonite Chips) Lower Drillhole Diameter (in.) Casing Depth (ft.) Sealing Materials **Neat Cement Grout** Concrete 0 0 Sand-Cement (Concrete) Grout Bentonite Chips Was well annular space grouted? Yes ■ No Unknown For Monitoring Wells and Monitoring Well Boreholes Only: If yes, to what depth (feet)? Depth to Water (feet) Bentonite Chips Bentonite - Cement Grout > 70.0 (unknown) **Granular Bentonite** Bentonite - Sand Slurry No. Yards, Sacks Sealant or Mix Ratio or 5. Material Used to Fill Well / Drillhole From (ft.) To (ft.) Volume (circle one) Topsoil 0 0.5 Bentonite Chips 3/8" 0.5 70 16-50lb sacks 6. Comments EB-MW-1R2 7. Supervision of Work **DNR Use Only** Name of Person or Firm Doing Filling & Sealing Date of Filling & Sealing or Verification Date Received Noted By K. Singh & Associates, inc. 7/18/2023 (mm/dd/yyyy) Street or Route Telephone Number Comments 3636 N 124th St ( 262 )821-1171 Signature of Person Doing Work City State ZIP Code Date Signed

Samuel Ramirez

7/18/2023

WI

53322

Wauwatosa

State of Wis., Dept. of Natural Resources

## Well / Drillhole / Borehole Filling & Sealing Report

dnr.wi.gov Form 3300-005 (R 4/2015) Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information. Route to DNR Bureau: Drinking Water Watershed/Wastewater Remediation/Redevelopment Verification Only of Fill and Seal Other: Waste Management 1. Well Location Information 2. Facility / Owner Information WI Unique Well # of Hicap # County Facility Name Removed Well Community Within the Corridor - East Block Milwaukee Facility ID (FID or PWS) Latitude / Longitude (see instructions) Format Code Method Code 241025400 GPS008 ■ DD Ν License/Permit/Monitoring # ■ SCR002 DDM W ☐ OTH001 1/4 / 1/4 1/4 Section Township Range Original Well Owner **Roers Companies** or Gov't Lot # W Ν Present Well Owner Well Street Address Roers Companies 2748 M. 32nd St Mailing Address of Present Owner Well ZIP Code Well City, Village or Town 110 Cheshire Ln #120 53210 Milwaukee City of Present Owner ZIP Code State Subdivision Name Lot# Minnetonka MN 55305 Cawker's 4. Pump, Liner, Screen, Casing & Sealing Material Reason for Removal from Service WI Unique Well # of Replacement Well Pump and piping removed? Yes No Auger refusal Liner(s) removed? Yes No 🔳 N/A 3. Filled & Sealed Well / Drillhole / Borehole Information Liner(s) perforated? Yes No Original Construction Date (mm/dd/yyyy) Monitoring Well Screen removed? Yes No N/A 3/21/2023 Water Well Casing left in place? Yes No N/A If a Well Construction Report is available, Was casing cut off below surface? Borehole / Drillhole N/A Yes No please attach. Did sealing material rise to surface? Yes No N/A Construction Type: Did material settle after 24 hours? Yes No N/A Dug Drilled Driven (Sandpoint) If yes, was hole retopped? N/A Yes No Other (specify): If bentonite chips were used, were they hydrated Nο Yes Formation Type: with water from a known safe source? Required Method of Placing Sealing Material Unconsolidated Formation Bedrock Conductor Pipe-Gravity Conductor Pipe-Pumped Total Well Depth From Ground Surface (ft.) Casing Diameter (in.) Screened & Poured Other (Explain): Gravity 2 8.25 (Bentonite Chips) Lower Drillhole Diameter (in.) Casing Depth (ft.) Sealing Materials **Neat Cement Grout** Concrete 0 0 Sand-Cement (Concrete) Grout Bentonite Chips Was well annular space grouted? Yes ■ No Unknown For Monitoring Wells and Monitoring Well Boreholes Only: If yes, to what depth (feet)? Depth to Water (feet) Bentonite Chips Bentonite - Cement Grout > 2 (unknown) **Granular Bentonite** Bentonite - Sand Slurry Mix Ratio or No. Yards, Sacks Sealant or 5. Material Used to Fill Well / Drillhole From (ft.) To (ft.) Volume (circle one) Soil 0 0.5 Blackhills bentonite 0.5 2 0.5 sacks 6. Comments EB-MW-7

7. Supervision of Work						DN	IR Use O	nly
Name of Person or Firm Doing Filling & Sealing	Licens	se #	Date of Fil	ling & Se	ealing or Verification	Date Received	No	ted By
Soil & Engineering Services, Inc.			(mm/dd/yy	уу)	3/22/2023			
Street or Route	•		Te	lephone	Number	Comments	,	
1102 Stewart Street			(	608)	274-7600			
City	State	ZIP Code		Signatu	re of Person Doing V	Vork	Date :	Signed
Madison	WI	53713		Danie	l Pelczar		3/22	2/2023

## **ATTACHMENT B**

Soil Laboratory Analytical Results



## PREPARED FOR

Attn: Daniel Pelczar K. Singh & Associates, Inc 3636 N. 124th Street Wauwatosa, Wisconsin 53222

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## JOB DESCRIPTION

CWC East Block 40441

## **JOB NUMBER**

500-231195-1

Eurofins Chicago 2417 Bond Street University Park IL 60484

## **Eurofins Chicago**

#### **Job Notes**

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

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

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

#### **Authorization**

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

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Client: K. Singh & Associates, Inc Project/Site: CWC East Block 40441 Laboratory Job ID: 500-231195-1

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#### **Case Narrative**

Client: K. Singh & Associates, Inc Project/Site: CWC East Block 40441 Job ID: 500-231195-1

Job ID: 500-231195-1

**Laboratory: Eurofins Chicago** 

Narrative

Job Narrative 500-231195-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 3/24/2023 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3° C.

#### GC/MS VOA

Method 5035: sample vial has < 8 grams of soil in 10 ml of methanol. EB-MW-1R, 28' to 30' (500-231195-1), EB-MW-1R, 63' to 65' (500-231195-2) and EB-MW-7, 2' to 4' (500-231195-3)

Method 8260B: The laboratory control sample (LCS) for 704214 recovered outside control limits for Bromobenzene. This is a prepped 5035 LCS. All daily instrument LCSs were acceptable, and the data have been reported.EB-MW-1R, 28' to 30' (500-231195-1), EB-MW-1R, 63' to 65' (500-231195-2) and EB-MW-7, 2' to 4' (500-231195-3)

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

#### GC/MS Semi VOA

Method 8270E: The following samples were diluted due to the nature of the sample matrix: EB-MW-1R, 28' to 30' (500-231195-1). Elevated reporting limits (RLs) are provided.

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

#### GC Semi VOA

Method 8082A: The following samples required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: EB-MW-1R, 28' to 30' (500-231195-1) and EB-MW-1R, 63' to 65' (500-231195-2). The reagent lot number used was: T12I032.

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

#### Metals

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

#### General Chemistry

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

#### **Organic Prep**

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

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Client: K. Singh & Associates, Inc Project/Site: CWC East Block 40441 Job ID: 500-231195-1

Lab Sample ID: 500-231195-1

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Total/NA

1 🌣 7471B

Lab Sample ID: 500-231195-2

Lab Sample ID: 500-231195-3

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# 15

### Client Sample ID: EB-MW-1R, 28' to 30'

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.065	J	0.082	0.014	mg/Kg	2	₽	8270E	Total/NA
Benzo[a]anthracene	0.47		0.082	0.011	mg/Kg	2	₽	8270E	Total/NA
Benzo[a]pyrene	0.67		0.082	0.016	mg/Kg	2	₩	8270E	Total/NA
Benzo[b]fluoranthene	0.82		0.082	0.018	mg/Kg	2	₩	8270E	Total/NA
Benzo[g,h,i]perylene	0.64		0.082	0.027	mg/Kg	2	₽	8270E	Total/NA
Benzo[k]fluoranthene	0.31		0.082	0.024	mg/Kg	2	₩	8270E	Total/NA
Chrysene	0.61		0.082	0.022	mg/Kg	2	₩	8270E	Total/NA
Dibenz(a,h)anthracene	0.12		0.082	0.016	mg/Kg	2	₽	8270E	Total/NA
Fluoranthene	0.99		0.082	0.015	mg/Kg	2	₩	8270E	Total/NA
Fluorene	0.013	J	0.082	0.012	mg/Kg	2	₽	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.59		0.082	0.021	mg/Kg	2	₩	8270E	Total/NA
Phenanthrene	0.24		0.082	0.011	mg/Kg	2	₩	8270E	Total/NA
Pyrene	0.94		0.082	0.016	mg/Kg	2	₽	8270E	Total/NA
Arsenic	6.2		1.1	0.38	mg/Kg	1	₩	6010B	Total/NA
Barium	75		1.1	0.13	mg/Kg	1	₩	6010B	Total/NA
Cadmium	0.36		0.22	0.040	mg/Kg	1	₩	6010B	Total/NA
Chromium	20		1.1	0.55	mg/Kg	1	₩	6010B	Total/NA
Lead	21		0.55	0.25	mg/Kg	1	₩	6010B	Total/NA
Silver	0.31	J	0.55	0.14	mg/Kg	1	₩	6010B	Total/NA

### Client Sample ID: EB-MW-1R, 63' to 65'

Mercury

0.025

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0056	J	0.036	0.0050	mg/Kg	1	⊅	8270E	Total/NA
Arsenic	3.9		0.98	0.34	mg/Kg	1	₩	6010B	Total/NA
Barium	17		0.98	0.11	mg/Kg	1	₩	6010B	Total/NA
Cadmium	0.24		0.20	0.035	mg/Kg	1	⊅	6010B	Total/NA
Chromium	6.9		0.98	0.49	mg/Kg	1	₩	6010B	Total/NA
Lead	7.6		0.49	0.23	mg/Kg	1	₩	6010B	Total/NA

0.019

0.0098 mg/Kg

### Client Sample ID: EB-MW-7, 2' to 4'

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.033	J	0.038	0.0051	mg/Kg	1	₩	8270E	Total/NA
Benzo[a]pyrene	0.036	J	0.038	0.0074	mg/Kg	1	₩	8270E	Total/NA
Benzo[b]fluoranthene	0.044		0.038	0.0083	mg/Kg	1	₩	8270E	Total/NA
Benzo[g,h,i]perylene	0.020	J	0.038	0.012	mg/Kg	1	₩	8270E	Total/NA
Benzo[k]fluoranthene	0.014	J	0.038	0.011	mg/Kg	1	₩	8270E	Total/NA
Chrysene	0.039		0.038	0.010	mg/Kg	1	₩	8270E	Total/NA
Fluoranthene	0.061		0.038	0.0071	mg/Kg	1	₩	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.021	J	0.038	0.0099	mg/Kg	1	₩	8270E	Total/NA
Naphthalene	0.0071	J	0.038	0.0059	mg/Kg	1	₩	8270E	Total/NA
Phenanthrene	0.069		0.038	0.0053	mg/Kg	1	₩	8270E	Total/NA
Pyrene	0.083		0.038	0.0076	mg/Kg	1	₩	8270E	Total/NA
Arsenic	5.5		1.0	0.36	mg/Kg	1	₩	6010B	Total/NA
Barium	47		1.0	0.12	mg/Kg	1	₩	6010B	Total/NA
Cadmium	0.43		0.21	0.038	mg/Kg	1	₩	6010B	Total/NA
Chromium	14		1.0	0.52	mg/Kg	1	₩	6010B	Total/NA
Lead	18		0.52	0.24	mg/Kg	1	₩	6010B	Total/NA
Silver	0.28	J	0.52	0.13	mg/Kg	1	₩	6010B	Total/NA
Mercury	0.018		0.018	0.0096	mg/Kg	1	₩	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

### **Method Summary**

Client: K. Singh & Associates, Inc Project/Site: CWC East Block 40441

Method **Method Description** Protocol Laboratory Volatile Organic Compounds (GC/MS) 8260B SW846 **EET CHI** 8270E Semivolatile Organic Compounds (GC/MS) SW846 **EET CHI** Polychlorinated Biphenyls (PCBs) by Gas Chromatography SW846 8082A **EET CHI** 6010B Metals (ICP) SW846 EET CHI 7471B Mercury (CVAA) SW846 **EET CHI** Moisture Percent Moisture EPA **EET CHI** 3050B Preparation, Metals SW846 EET CHI Automated Soxhlet Extraction 3541 SW846 **EET CHI** 3546 Microwave Extraction SW846 **EET CHI** 5035 Closed System Purge and Trap SW846 EET CHI 7471B Preparation, Mercury SW846 **EET CHI** 

#### **Protocol References:**

EPA = US Environmental Protection Agency

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

#### **Laboratory References:**

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

Job ID: 500-231195-1

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# **Sample Summary**

Client: K. Singh & Associates, Inc Project/Site: CWC East Block 40441 Job ID: 500-231195-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-231195-1	EB-MW-1R, 28' to 30'	Soil	03/21/23 14:30	03/24/23 09:50
500-231195-2	EB-MW-1R, 63' to 65'	Soil	03/22/23 11:10	03/24/23 09:50
500-231195-3	EB-MW-7, 2' to 4'	Soil	03/22/23 13:00	03/24/23 09:50

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Client: K. Singh & Associates, Inc Project/Site: CWC East Block 40441

Client Sample ID: EB-MW-1R, 28' to 30'

Date Collected: 03/21/23 14:30 Date Received: 03/24/23 09:50 Lab Sample ID: 500-231195-1

Matrix: Soil

Percent Solids: 80.1

Job ID: 500-231195-1

Method: SW846 8260B - Vola Analyte	Result Qualit		MDL	Unit	D	Prepared	Analyzed	Dil F
,1,1,2-Tetrachloroethane	<0.042	0.091	0.042	mg/Kg	— <u></u>	03/22/23 14:30	03/30/23 14:42	
,1,1-Trichloroethane	< 0.034	0.091		mg/Kg	₽	03/22/23 14:30	03/30/23 14:42	
,1,2,2-Tetrachloroethane	< 0.036	0.091	0.036	mg/Kg	₽	03/22/23 14:30	03/30/23 14:42	
,1,2-Trichloroethane	<0.032	0.091	0.032	mg/Kg	₩	03/22/23 14:30	03/30/23 14:42	
,1-Dichloroethane	< 0.037	0.091	0.037	mg/Kg	₩	03/22/23 14:30	03/30/23 14:42	
,1-Dichloroethene	<0.035	0.091		mg/Kg	₩	03/22/23 14:30	03/30/23 14:42	
,1-Dichloropropene	<0.027	0.091		mg/Kg	 ф	03/22/23 14:30	03/30/23 14:42	
,2,3-Trichlorobenzene	<0.042	0.091		mg/Kg	₩	03/22/23 14:30	03/30/23 14:42	
,2,3-Trichloropropane	<0.038	0.18		mg/Kg	☆	03/22/23 14:30	03/30/23 14:42	
,2,4-Trichlorobenzene	<0.031	0.091		mg/Kg			03/30/23 14:42	
,2,4-Trimethylbenzene	<0.032	0.091		mg/Kg	₩		03/30/23 14:42	
,2-Dibromo-3-Chloropropane	<0.18	0.45		mg/Kg			03/30/23 14:42	
,2-Dibromoethane (EDB)	<0.035	0.091		mg/Kg			03/30/23 14:42	
,2-Dichlorobenzene	<0.030	0.091	0.030	mg/Kg	~ ☆		03/30/23 14:42	
,2-Dichloroethane	<0.036	0.091		mg/Kg	₩		03/30/23 14:42	
,2-Dichloropropane	<0.039	0.091		mg/Kg	∵ \$		03/30/23 14:42	
,3,5-Trimethylbenzene	<0.034	0.091		mg/Kg	₩		03/30/23 14:42	
,3-Dichlorobenzene	<0.036	0.091		mg/Kg	₩		03/30/23 14:42	
,3-Dichloropropane	<0.033	0.091		mg/Kg			03/30/23 14:42	
,4-Dichlorobenzene	<0.033	0.091		mg/Kg	₩		03/30/23 14:42	
2,2-Dichloropropane	<0.040	0.091		mg/Kg	₩		03/30/23 14:42	
-Chlorotoluene	<0.028	0.091		mg/Kg			03/30/23 14:42	
-Chlorotoluene	<0.020	0.091		mg/Kg	₩		03/30/23 14:42	
Senzene	<0.032	0.091		mg/Kg	₩		03/30/23 14:42	
Bromobenzene	<0.032 *+	0.023			¥. 		03/30/23 14:42	
Bromochloromethane		0.091		mg/Kg			03/30/23 14:42	
Dichlorobromemane	<0.039	0.091		mg/Kg	ψ.			
Bromoform	<0.034			mg/Kg	<del></del> .	03/22/23 14:30		
	<0.044	0.091		mg/Kg	<b>‡</b>		03/30/23 14:42	
Bromomethane	<0.072	0.27		mg/Kg	<b>‡</b>		03/30/23 14:42	
Carbon tetrachloride	<0.035	0.091		mg/Kg	<u>.</u> .		03/30/23 14:42	
Chlorobenzene	<0.035	0.091		mg/Kg	<b>‡</b>		03/30/23 14:42	
Chloroethane	<0.046	0.091		mg/Kg	<b>‡</b>		03/30/23 14:42	
Chloroform	<0.034	0.18		mg/Kg	<u>.</u> .		03/30/23 14:42	
Chloromethane	<0.029	0.091		mg/Kg			03/30/23 14:42	
sis-1,2-Dichloroethene	<0.037	0.091		mg/Kg	<b>‡</b>		03/30/23 14:42	
is-1,3-Dichloropropene	<0.038	0.091		mg/Kg			03/30/23 14:42	
Dibromochloromethane	<0.044	0.091		mg/Kg	₩		03/30/23 14:42	
Dibromomethane	<0.024	0.091		mg/Kg	₩		03/30/23 14:42	
Dichlorodifluoromethane	<0.061	0.27		mg/Kg	<del>.</del>		03/30/23 14:42	
Ethylbenzene	<0.017	0.023		mg/Kg	₩		03/30/23 14:42	
lexachlorobutadiene	<0.040	0.091		mg/Kg	₩		03/30/23 14:42	
sopropyl ether	<0.025	0.091		mg/Kg			03/30/23 14:42	
sopropylbenzene	<0.035	0.091		mg/Kg	₩		03/30/23 14:42	
lethyl tert-butyl ether	<0.036	0.091		mg/Kg	₩	03/22/23 14:30	03/30/23 14:42	
Methylene Chloride	<0.15	0.45	0.15	mg/Kg	₩	03/22/23 14:30	03/30/23 14:42	
laphthalene	<0.030	0.091	0.030	mg/Kg	₩	03/22/23 14:30	03/30/23 14:42	
-Butylbenzene	<0.035	0.091	0.035	mg/Kg	₩	03/22/23 14:30	03/30/23 14:42	
I-Propylbenzene	<0.038	0.091	0.038	mg/Kg	₩	03/22/23 14:30	03/30/23 14:42	

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Client: K. Singh & Associates, Inc Project/Site: CWC East Block 40441

Client Sample ID: EB-MW-1R, 28' to 30'

Lab Sample ID: 500-231195-1 Date Collected: 03/21/23 14:30 **Matrix: Soil** Date Received: 03/24/23 09:50 Percent Solids: 80.1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued) Result Qualifier MDL Unit Dil Fac Analyte D Prepared Analyzed sec-Butylbenzene 0.091 < 0.036 0.036 mg/Kg 03/22/23 14:30 03/30/23 14:42 50 © 03/22/23 14:30 03/30/23 14:42 50 Styrene < 0.035 0.091 0.035 mg/Kg tert-Butylbenzene < 0.036 0.091 0.036 mg/Kg 03/22/23 14:30 03/30/23 14:42 50 Tetrachloroethene 03/22/23 14:30 03/30/23 14:42 < 0.034 0.091 0.034 mg/Kg 50 Toluene < 0.013 0.023 0.013 mg/Kg 03/22/23 14:30 03/30/23 14:42 50 trans-1,2-Dichloroethene < 0.032 0.091 0.032 mg/Kg © 03/22/23 14:30 03/30/23 14:42 50 trans-1,3-Dichloropropene < 0.033 0.091 0.033 mg/Kg © 03/22/23 14:30 03/30/23 14:42 50 Trichloroethene <0.015 0.045 0.015 mg/Kg ☼ 03/22/23 14:30 03/30/23 14:42 50 Trichlorofluoromethane < 0.039 0.091 0.039 mg/Kg 03/22/23 14:30 03/30/23 14:42 50 Vinyl chloride < 0.024 0.091 0.024 mg/Kg © 03/22/23 14:30 03/30/23 14:42 50 Xylenes, Total < 0.020 0.045 0.020 mg/Kg ☼ 03/22/23 14:30 03/30/23 14:42 50 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 113 75 - 126 03/22/23 14:30 03/30/23 14:42 72 - 124 4-Bromofluorobenzene (Surr) 116 03/22/23 14:30 03/30/23 14:42 50 Dibromofluoromethane (Surr) 89 75 - 120 03/22/23 14:30 03/30/23 14:42 50 Toluene-d8 (Surr) 109 75 - 120 03/22/23 14:30 03/30/23 14:42

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.015		0.082	0.015	mg/Kg	<u></u>	03/29/23 14:14	04/12/23 13:00	2
Acenaphthylene	<0.011		0.082	0.011	mg/Kg	☼	03/29/23 14:14	04/12/23 13:00	2
Anthracene	0.065	J	0.082	0.014	mg/Kg	☼	03/29/23 14:14	04/12/23 13:00	2
Benzo[a]anthracene	0.47		0.082	0.011	mg/Kg	₽	03/29/23 14:14	04/12/23 13:00	2
Benzo[a]pyrene	0.67		0.082	0.016	mg/Kg	☼	03/29/23 14:14	04/12/23 13:00	2
Benzo[b]fluoranthene	0.82		0.082	0.018	mg/Kg	☼	03/29/23 14:14	04/12/23 13:00	2
Benzo[g,h,i]perylene	0.64		0.082	0.027	mg/Kg	₽	03/29/23 14:14	04/12/23 13:00	2
Benzo[k]fluoranthene	0.31		0.082	0.024	mg/Kg	☼	03/29/23 14:14	04/12/23 13:00	2
Chrysene	0.61		0.082	0.022	mg/Kg	☼	03/29/23 14:14	04/12/23 13:00	2
Dibenz(a,h)anthracene	0.12		0.082	0.016	mg/Kg	⊅	03/29/23 14:14	04/12/23 13:00	2
Fluoranthene	0.99		0.082	0.015	mg/Kg	☼	03/29/23 14:14	04/12/23 13:00	2
Fluorene	0.013	J	0.082	0.012	mg/Kg	☼	03/29/23 14:14	04/12/23 13:00	2
Indeno[1,2,3-cd]pyrene	0.59		0.082	0.021	mg/Kg	₽	03/29/23 14:14	04/12/23 13:00	2
Naphthalene	< 0.013		0.082	0.013	mg/Kg	☼	03/29/23 14:14	04/12/23 13:00	2
Phenanthrene	0.24		0.082	0.011	mg/Kg	☼	03/29/23 14:14	04/12/23 13:00	2
Pyrene	0.94		0.082	0.016	mg/Kg	₽	03/29/23 14:14	04/12/23 13:00	2
1-Methylnaphthalene	< 0.020		0.17	0.020	mg/Kg	☼	03/29/23 14:14	04/12/23 13:00	2
2-Methylnaphthalene	<0.015		0.17		mg/Kg	☼	03/29/23 14:14	04/12/23 13:00	2
Surrogate	%Recovery	Qualifier	l imits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	69		37 - 147	03/29/23 14:14	04/12/23 13:00	2
Terphenyl-d14 (Surr)	73		42 - 157	03/29/23 14:14	04/12/23 13:00	2
2-Fluorobiphenyl (Surr)	77		43 - 145	03/29/23 14:14	04/12/23 13:00	2

Method: SW846 8082	2A - Polychlorinated B	iphenyls (F	PCBs) by G	as Chro	matogra	phy			
Analyte	Result (	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0081		0.021	0.0081	mg/Kg	☆	03/29/23 08:05	03/29/23 19:32	1
PCB-1221	<0.0081		0.021	0.0081	mg/Kg	₩	03/29/23 08:05	03/29/23 19:32	1
PCB-1232	<0.0056		0.021	0.0056	mg/Kg	☆	03/29/23 08:05	03/29/23 19:32	1
PCB-1242	<0.0081		0.021	0.0081	mg/Kg	₩	03/29/23 08:05	03/29/23 19:32	1

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Job ID: 500-231195-1

Client: K. Singh & Associates, Inc Project/Site: CWC East Block 40441

Client Sample ID: EB-MW-1R, 28' to 30'

Date Collected: 03/21/23 14:30 Date Received: 03/24/23 09:50 Lab Sample ID: 500-231195-1

Job ID: 500-231195-1

Matrix: Soil
Percent Solids: 80 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
PCB-1248	<0.0098		0.021	0.0098	mg/Kg	<u></u>	03/29/23 08:05	03/29/23 19:32	
PCB-1254	<0.0070		0.021	0.0070	mg/Kg	₩	03/29/23 08:05	03/29/23 19:32	
PCB-1260	<0.0078		0.021	0.0078	mg/Kg	₩	03/29/23 08:05	03/29/23 19:32	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Tetrachloro-m-xylene	85		49 - 129				03/29/23 08:05	03/29/23 19:32	
DCB Decachlorobiphenyl	90		37 - 121				03/29/23 08:05	03/29/23 19:32	
Analyte Arsenic	Result	Qualifier		MDL 0.38		— <u>D</u>	Prepared 04/04/23 14:49	Analyzed 04/05/23 17:17	Dil Fa
Method: SW846 6010B - I	• •								
					0 0	-,-			
Barium	75		1.1		mg/Kg	☼	04/04/23 14:49	04/05/23 17:17	
Cadmium	0.36		0.22		mg/Kg	<b>.</b>	04/04/23 14:49	04/05/23 17:17	
Chromium	20		1.1	0.55	mg/Kg	≎	04/04/23 14:49	04/05/23 17:17	
Lead	21		0.55	0.25	mg/Kg	≎	04/04/23 14:49	04/05/23 17:17	
Selenium	<0.65		1.1	0.65	mg/Kg	₩	04/04/23 14:49	04/05/23 17:17	
Silver	0.31	J	0.55	0.14	mg/Kg	≎	04/04/23 14:49	04/05/23 17:17	
- Method: SW846 7471B - I	Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Mercury	0.025		0.019	0.0098	mg/Kg	— <u></u>	04/03/23 18:45	04/04/23 09:41	

Client: K. Singh & Associates, Inc Project/Site: CWC East Block 40441

Client Sample ID: EB-MW-1R, 63' to 65'

Lab Sample ID: 500-231195-2

Date Collected: 03/22/23 11:10

Matrix: Soil

Date Received: 03/24/23 09:50

Percent Solids: 91.6

Method: SW846 8260B - Volat	•				_			
Analyte	Result Qualifier	RL _		Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
,1,1,2-Tetrachloroethane	<0.037	0.080		mg/Kg	☼	03/22/23 11:10	03/30/23 15:04	5
,1,1-Trichloroethane	<0.030	0.080		mg/Kg	₩	03/22/23 11:10	03/30/23 15:04	5
,1,2,2-Tetrachloroethane	<0.032	0.080		mg/Kg		03/22/23 11:10		5
,1,2-Trichloroethane	<0.028	0.080		mg/Kg	₩		03/30/23 15:04	5
,1-Dichloroethane	<0.033	0.080		mg/Kg	₩	03/22/23 11:10	03/30/23 15:04	5
,1-Dichloroethene	<0.031	0.080	0.031	mg/Kg	₩	03/22/23 11:10	03/30/23 15:04	5
,1-Dichloropropene	<0.024	0.080	0.024	mg/Kg	₩	03/22/23 11:10	03/30/23 15:04	5
,2,3-Trichlorobenzene	<0.037	0.080	0.037	mg/Kg	₩	03/22/23 11:10	03/30/23 15:04	5
,2,3-Trichloropropane	<0.033	0.16		mg/Kg	₩	03/22/23 11:10	03/30/23 15:04	5
,2,4-Trichlorobenzene	<0.027	0.080	0.027	mg/Kg	☼	03/22/23 11:10	03/30/23 15:04	5
,2,4-Trimethylbenzene	<0.029	0.080	0.029	mg/Kg	☼	03/22/23 11:10	03/30/23 15:04	5
,2-Dibromo-3-Chloropropane	<0.16	0.40	0.16	mg/Kg	☼	03/22/23 11:10	03/30/23 15:04	5
,2-Dibromoethane (EDB)	<0.031	0.080	0.031	mg/Kg	₩	03/22/23 11:10	03/30/23 15:04	5
,2-Dichlorobenzene	<0.027	0.080	0.027	mg/Kg	₩	03/22/23 11:10	03/30/23 15:04	5
,2-Dichloroethane	<0.031	0.080	0.031	mg/Kg	₩	03/22/23 11:10	03/30/23 15:04	5
,2-Dichloropropane	<0.034	0.080	0.034	mg/Kg	₩	03/22/23 11:10	03/30/23 15:04	5
,3,5-Trimethylbenzene	<0.030	0.080	0.030	mg/Kg	₩	03/22/23 11:10	03/30/23 15:04	5
,3-Dichlorobenzene	<0.032	0.080	0.032	mg/Kg	₩	03/22/23 11:10	03/30/23 15:04	5
,3-Dichloropropane	<0.029	0.080	0.029	mg/Kg	₩	03/22/23 11:10	03/30/23 15:04	5
,4-Dichlorobenzene	<0.029	0.080	0.029	mg/Kg	₩	03/22/23 11:10	03/30/23 15:04	5
,2-Dichloropropane	<0.035	0.080	0.035	mg/Kg	₽	03/22/23 11:10	03/30/23 15:04	5
-Chlorotoluene	<0.025	0.080	0.025	mg/Kg	₩	03/22/23 11:10	03/30/23 15:04	5
-Chlorotoluene	<0.028	0.080		mg/Kg	₽	03/22/23 11:10	03/30/23 15:04	5
Benzene	<0.012	0.020		mg/Kg	₩	03/22/23 11:10	03/30/23 15:04	5
Bromobenzene	<0.028 *+	0.080		mg/Kg		03/22/23 11:10	03/30/23 15:04	5
romochloromethane	<0.034	0.080		mg/Kg	☆	03/22/23 11:10	03/30/23 15:04	5
Dichlorobromomethane	<0.030	0.080		mg/Kg	₩	03/22/23 11:10		į
Bromoform	<0.039	0.080		mg/Kg	∴		03/30/23 15:04	5
Bromomethane	<0.064	0.24		mg/Kg	₩		03/30/23 15:04	5
Carbon tetrachloride	<0.031	0.080		mg/Kg	₩		03/30/23 15:04	5
Chlorobenzene	<0.031	0.080		mg/Kg		03/22/23 11:10		5
Chloroethane	<0.040	0.080		mg/Kg	~ ☆	03/22/23 11:10	03/30/23 15:04	5
Chloroform	<0.030	0.16		mg/Kg	☆	03/22/23 11:10	03/30/23 15:04	5
Chloromethane	<0.026	0.080		mg/Kg		03/22/23 11:10		5
is-1,2-Dichloroethene	<0.020	0.080		mg/Kg	₩	03/22/23 11:10		5
is-1,3-Dichloropropene	<0.033							
Dibromochloromethane		0.080		mg/Kg mg/Kg	· · · · · ·		03/30/23 15:04 03/30/23 15:04	
Dibromomethane	<0.039	0.080			ψ.			
	<0.022	0.080		mg/Kg	ψ.		03/30/23 15:04	5
Dichlorodifluoromethane	<0.054	0.24		mg/Kg	<del></del>		03/30/23 15:04	5
ithylbenzene	<0.015	0.020		mg/Kg	<b>*</b>		03/30/23 15:04	į
lexachlorobutadiene	<0.036	0.080		mg/Kg	<b>*</b>		03/30/23 15:04	į
opropyl ether	<0.022	0.080		mg/Kg	<b>☆</b>	03/22/23 11:10		
sopropylbenzene	<0.031	0.080		mg/Kg	☼		03/30/23 15:04	
lethyl tert-butyl ether	<0.031	0.080		mg/Kg	☼	03/22/23 11:10		į
lethylene Chloride	<0.13	0.40		mg/Kg	<b>*</b>	03/22/23 11:10		
laphthalene	<0.027	0.080		mg/Kg	₩		03/30/23 15:04	5
-Butylbenzene	<0.031	0.080		mg/Kg	☼		03/30/23 15:04	5
I-Propylbenzene	<0.033	0.080	0.033	mg/Kg	☼	03/22/23 11:10	03/30/23 15:04	5

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Job ID: 500-231195-1

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Client: K. Singh & Associates, Inc Project/Site: CWC East Block 40441

Client Sample ID: EB-MW-1R, 63' to 65'

Date Collected: 03/22/23 11:10 Date Received: 03/24/23 09:50 Lab Sample ID: 500-231195-2

Matrix: Soil
Percent Solids: 91.6

Job ID: 500-231195-1

Method: SW846 8260B - Vo	latile Organic C	Compound	ds (GC/MS) (	Continu	ed)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.032		0.080	0.032	mg/Kg	<del>-</del>	03/22/23 11:10	03/30/23 15:04	50
Styrene	< 0.031		0.080	0.031	mg/Kg	☼	03/22/23 11:10	03/30/23 15:04	50
tert-Butylbenzene	<0.032		0.080	0.032	mg/Kg	₽	03/22/23 11:10	03/30/23 15:04	50
Tetrachloroethene	< 0.030		0.080	0.030	mg/Kg	☼	03/22/23 11:10	03/30/23 15:04	50
Toluene	<0.012		0.020	0.012	mg/Kg	₩	03/22/23 11:10	03/30/23 15:04	50
trans-1,2-Dichloroethene	<0.028		0.080	0.028	mg/Kg	₽	03/22/23 11:10	03/30/23 15:04	50
trans-1,3-Dichloropropene	<0.029		0.080	0.029	mg/Kg	☼	03/22/23 11:10	03/30/23 15:04	50
Trichloroethene	< 0.013		0.040	0.013	mg/Kg	₩	03/22/23 11:10	03/30/23 15:04	50
Trichlorofluoromethane	<0.034		0.080	0.034	mg/Kg	₽	03/22/23 11:10	03/30/23 15:04	50
Vinyl chloride	<0.021		0.080	0.021	mg/Kg	☼	03/22/23 11:10	03/30/23 15:04	50
Xylenes, Total	<0.018		0.040	0.018	mg/Kg	₩	03/22/23 11:10	03/30/23 15:04	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		75 - 126				03/22/23 11:10	03/30/23 15:04	50
4-Bromofluorobenzene (Surr)	116		72 - 124				03/22/23 11:10	03/30/23 15:04	50
Dibromofluoromethane (Surr)	88		75 - 120				03/22/23 11:10	03/30/23 15:04	50
Toluene-d8 (Surr)	108		75 - 120				03/22/23 11:10	03/30/23 15:04	50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0065		0.036	0.0065	mg/Kg	<u></u>	03/29/23 14:14	03/30/23 18:26	1
Acenaphthylene	<0.0047		0.036	0.0047	mg/Kg	☼	03/29/23 14:14	03/30/23 18:26	1
Anthracene	<0.0060		0.036	0.0060	mg/Kg	☼	03/29/23 14:14	03/30/23 18:26	1
Benzo[a]anthracene	<0.0048		0.036	0.0048	mg/Kg	≎	03/29/23 14:14	03/30/23 18:26	1
Benzo[a]pyrene	<0.0070		0.036	0.0070	mg/Kg	≎	03/29/23 14:14	03/30/23 18:26	1
Benzo[b]fluoranthene	<0.0078		0.036	0.0078	mg/Kg	≎	03/29/23 14:14	03/30/23 18:26	1
Benzo[g,h,i]perylene	<0.012		0.036	0.012	mg/Kg	≎	03/29/23 14:14	03/30/23 18:26	1
Benzo[k]fluoranthene	<0.011		0.036	0.011	mg/Kg	≎	03/29/23 14:14	03/30/23 18:26	1
Chrysene	<0.0098		0.036	0.0098	mg/Kg	≎	03/29/23 14:14	03/30/23 18:26	1
Dibenz(a,h)anthracene	<0.0069		0.036	0.0069	mg/Kg	≎	03/29/23 14:14	03/30/23 18:26	1
Fluoranthene	< 0.0067		0.036	0.0067	mg/Kg	≎	03/29/23 14:14	03/30/23 18:26	1
Fluorene	<0.0050		0.036	0.0050	mg/Kg	≎	03/29/23 14:14	03/30/23 18:26	1
Indeno[1,2,3-cd]pyrene	<0.0093		0.036	0.0093	mg/Kg	☼	03/29/23 14:14	03/30/23 18:26	1
Naphthalene	<0.0055		0.036	0.0055	mg/Kg	☼	03/29/23 14:14	03/30/23 18:26	1
Phenanthrene	0.0056	J	0.036	0.0050	mg/Kg	≎	03/29/23 14:14	03/30/23 18:26	1
Pyrene	<0.0071		0.036	0.0071	mg/Kg	☼	03/29/23 14:14	03/30/23 18:26	1
1-Methylnaphthalene	<0.0088		0.072	0.0088	mg/Kg	☼	03/29/23 14:14	03/30/23 18:26	1
2-Methylnaphthalene	<0.0066		0.072	0.0066	mg/Kg	₩	03/29/23 14:14	03/30/23 18:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	53		37 - 147				03/29/23 14:14	03/30/23 18:26	

Method: SW846 8082A - Poly	vchlorinated Biphenyl	s (PCBs) by Gas Chr	omatography	
2-Fluorobiphenyl (Surr)	60	43 - 145	03/29/23 14:14 03/30/23 18:26	1
Terphenyl-d14 (Surr)	74	42 - 157	03/29/23 14:14 03/30/23 18:26	1
Nitroberizerie-as (Surr)	53	37 - 147	03/29/23 14.14 03/30/23 10.20	1

Method: SW846 8082/	A - Polychlorinated Biphenyls (F	PCBs) by G	as Chro	matogra	phy			
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0070	0.018	0.0070	mg/Kg	<del></del>	03/29/23 08:05	03/29/23 19:47	1
PCB-1221	<0.0070	0.018	0.0070	mg/Kg	≎	03/29/23 08:05	03/29/23 19:47	1
PCB-1232	<0.0048	0.018	0.0048	mg/Kg	☆	03/29/23 08:05	03/29/23 19:47	1
PCB-1242	<0.0070	0.018	0.0070	mg/Kg	₩	03/29/23 08:05	03/29/23 19:47	1

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1 4

Client: K. Singh & Associates, Inc Project/Site: CWC East Block 40441

Mercury

Client Sample ID: EB-MW-1R, 63' to 65' Lab Sample ID: 500-231195-2

Date Collected: 03/22/23 11:10 **Matrix: Soil** 

Date Received: 03/24/23 09:50 Percent Solids: 91.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0085		0.018	0.0085	mg/Kg	≎	03/29/23 08:05	03/29/23 19:47	1
PCB-1254	<0.0061		0.018	0.0061	mg/Kg	≎	03/29/23 08:05	03/29/23 19:47	1
PCB-1260	<0.0067		0.018	0.0067	mg/Kg	☆	03/29/23 08:05	03/29/23 19:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70		49 - 129				03/29/23 08:05	03/29/23 19:47	1
DCB Decachlorobiphenyl	71		37 - 121				03/29/23 08:05	03/29/23 19:47	1
Method: SW846 6010B - I	. ,	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.9	Qualifier	0.98		mg/Kg	_ =	04/04/23 14:49	04/05/23 17:20	1
Barium	3. <del>9</del> 17		0.98		mg/Kg	74.	04/04/23 14:49	04/05/23 17:20	1
Cadmium	0.24		0.90		mg/Kg	₩	04/04/23 14:49	04/05/23 17:20	1
Chromium	6.9		0.98		mg/Kg		04/04/23 14:49	04/05/23 17:20	1
Lead	7.6		0.49	0.23	mg/Kg	☼	04/04/23 14:49	04/05/23 17:20	1
Selenium	<0.58		0.98	0.58	mg/Kg	₩	04/04/23 14:49	04/05/23 17:20	1
Silver	<0.13		0.49	0.13	mg/Kg	₩	04/04/23 14:49	04/05/23 17:20	1
 Method: SW846 7471B - I	Mercury (CVAA)								

0.018

0.0093 mg/Kg

<0.0093

Job ID: 500-231195-1

Client: K. Singh & Associates, Inc Project/Site: CWC East Block 40441

Client Sample ID: EB-MW-7, 2' to 4'

Date Collected: 03/22/23 13:00 Date Received: 03/24/23 09:50 Lab Sample ID: 500-231195-3

Matrix: Soil

Percent Solids: 85.9

Job ID: 500-231195-1

Analyte	Result Qualifier	` RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	<0.038 <b>Qualifier</b>	0.083		mg/Kg	— <del>"</del>	03/22/23 13:00	03/30/23 15:27	5
1,1,1-Trichloroethane	<0.031	0.083		mg/Kg	₩	03/22/23 13:00	03/30/23 15:27	5
1,1,2,2-Tetrachloroethane	<0.033	0.083		mg/Kg	₩	03/22/23 13:00		5
				mg/Kg	12			
1,1,2-Trichloroethane	<0.029	0.083			1.2 	03/22/23 13:00		5
1,1-Dichloroethane	<0.034	0.083		mg/Kg	₩.	03/22/23 13:00	03/30/23 15:27	5
1,1-Dichloroethene	<0.032	0.083		mg/Kg	·····Ω·	03/22/23 13:00	03/30/23 15:27	5
1,1-Dichloropropene	<0.025	0.083		mg/Kg	Đ:		03/30/23 15:27	5
1,2,3-Trichlorobenzene	<0.038	0.083		mg/Kg	<b>*</b>	03/22/23 13:00		5
1,2,3-Trichloropropane	<0.034	0.17		mg/Kg	<u>.</u>		03/30/23 15:27	
1,2,4-Trichlorobenzene	<0.028	0.083		mg/Kg	<b>‡</b>		03/30/23 15:27	5
1,2,4-Trimethylbenzene	<0.030	0.083		mg/Kg	₩		03/30/23 15:27	5
1,2-Dibromo-3-Chloropropane	<0.16	0.41		mg/Kg		03/22/23 13:00		
1,2-Dibromoethane (EDB)	<0.032	0.083		mg/Kg	₩	03/22/23 13:00		5
1,2-Dichlorobenzene	<0.028	0.083		mg/Kg	₩		03/30/23 15:27	5
1,2-Dichloroethane	<0.032	0.083		mg/Kg		03/22/23 13:00		
1,2-Dichloropropane	<0.035	0.083		mg/Kg	₩	03/22/23 13:00	03/30/23 15:27	Ę
1,3,5-Trimethylbenzene	<0.031	0.083	0.031	mg/Kg	₩	03/22/23 13:00	03/30/23 15:27	Ę
1,3-Dichlorobenzene	<0.033	0.083	0.033	mg/Kg	₩	03/22/23 13:00	03/30/23 15:27	
1,3-Dichloropropane	<0.030	0.083	0.030	mg/Kg	₩	03/22/23 13:00	03/30/23 15:27	;
1,4-Dichlorobenzene	<0.030	0.083	0.030	mg/Kg	₩	03/22/23 13:00	03/30/23 15:27	ļ
2,2-Dichloropropane	<0.037	0.083	0.037	mg/Kg	₩	03/22/23 13:00	03/30/23 15:27	į
2-Chlorotoluene	<0.026	0.083	0.026	mg/Kg	₩	03/22/23 13:00	03/30/23 15:27	
1-Chlorotoluene	<0.029	0.083	0.029	mg/Kg	₩	03/22/23 13:00	03/30/23 15:27	į
Benzene	<0.012	0.021	0.012	mg/Kg	₩	03/22/23 13:00	03/30/23 15:27	Ę
Bromobenzene	<0.029 *+	0.083	0.029	mg/Kg	₩	03/22/23 13:00	03/30/23 15:27	
Bromochloromethane	<0.035	0.083	0.035	mg/Kg	₩	03/22/23 13:00	03/30/23 15:27	Ę
Dichlorobromomethane	<0.031	0.083	0.031	mg/Kg	₩	03/22/23 13:00	03/30/23 15:27	
Bromoform	<0.040	0.083	0.040	mg/Kg	₩	03/22/23 13:00	03/30/23 15:27	
Bromomethane	<0.066	0.25		mg/Kg	₩	03/22/23 13:00	03/30/23 15:27	
Carbon tetrachloride	<0.032	0.083		mg/Kg	₩	03/22/23 13:00	03/30/23 15:27	
Chlorobenzene	<0.032	0.083		mg/Kg		03/22/23 13:00		
Chloroethane	<0.042	0.083		mg/Kg	₩	03/22/23 13:00	03/30/23 15:27	!
Chloroform	<0.031	0.17		mg/Kg	₩	03/22/23 13:00	03/30/23 15:27	!
Chloromethane	<0.026	0.083		mg/Kg		03/22/23 13:00	03/30/23 15:27	
cis-1.2-Dichloroethene	<0.034	0.083		mg/Kg	₩		03/30/23 15:27	
cis-1,3-Dichloropropene	<0.034	0.083		mg/Kg	₩.		03/30/23 15:27	
Dibromochloromethane	<0.040	0.083		mg/Kg			03/30/23 15:27	
Dibromomethane	<0.022	0.083		mg/Kg			03/30/23 15:27	
Dichlorodifluoromethane	<0.056	0.005		mg/Kg	<b>☆</b>		03/30/23 15:27	·
Ethylbenzene	<0.015	0.021		mg/Kg			03/30/23 15:27	;
Hexachlorobutadiene	<0.037	0.021		mg/Kg	₩	03/22/23 13:00		;
sopropyl ether	<0.023	0.083		mg/Kg	<del>.</del> .	03/22/23 13:00		
sopropylbenzene	<0.032	0.083		mg/Kg	*	03/22/23 13:00		;
Methyl tert-butyl ether	<0.033	0.083		mg/Kg	ψ.	03/22/23 13:00		
Methylene Chloride	<0.13	0.41		mg/Kg	<del></del>	03/22/23 13:00		
Naphthalene	<0.028	0.083		mg/Kg	₩.		03/30/23 15:27	
n-Butylbenzene	<0.032	0.083		mg/Kg	₩		03/30/23 15:27	į
N-Propylbenzene	<0.034	0.083	0.034	mg/Kg	☆	03/22/23 13:00	03/30/23 15:27	;

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Client: K. Singh & Associates, Inc Project/Site: CWC East Block 40441

Client Sample ID: EB-MW-7, 2' to 4'

Date Collected: 03/22/23 13:00 Date Received: 03/24/23 09:50

Lab Sample ID: 500-231195-3

**Matrix: Soil** Percent Solids: 85.9

Job ID: 500-231195-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.033		0.083	0.033	mg/Kg	<del>-</del>	03/22/23 13:00	03/30/23 15:27	50
Styrene	< 0.032		0.083	0.032	mg/Kg	☼	03/22/23 13:00	03/30/23 15:27	50
tert-Butylbenzene	<0.033		0.083	0.033	mg/Kg	₽	03/22/23 13:00	03/30/23 15:27	50
Tetrachloroethene	<0.031		0.083	0.031	mg/Kg	₩	03/22/23 13:00	03/30/23 15:27	50
Toluene	<0.012		0.021	0.012	mg/Kg	₩	03/22/23 13:00	03/30/23 15:27	50
trans-1,2-Dichloroethene	<0.029		0.083	0.029	mg/Kg	⊅	03/22/23 13:00	03/30/23 15:27	50
trans-1,3-Dichloropropene	< 0.030		0.083	0.030	mg/Kg	☼	03/22/23 13:00	03/30/23 15:27	50
Trichloroethene	<0.014		0.041	0.014	mg/Kg	☼	03/22/23 13:00	03/30/23 15:27	50
Trichlorofluoromethane	<0.035		0.083	0.035	mg/Kg	☼	03/22/23 13:00	03/30/23 15:27	50
Vinyl chloride	<0.022		0.083	0.022	mg/Kg	☼	03/22/23 13:00	03/30/23 15:27	50
Xylenes, Total	<0.018		0.041	0.018	mg/Kg	₩	03/22/23 13:00	03/30/23 15:27	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		75 - 126				03/22/23 13:00	03/30/23 15:27	50
4-Bromofluorobenzene (Surr)	117		72 - 124				03/22/23 13:00	03/30/23 15:27	50
Dibromofluoromethane (Surr)	89		75 - 120				03/22/23 13:00	03/30/23 15:27	50
Toluene-d8 (Surr)	109		75 - 120				03/22/23 13:00	03/30/23 15:27	50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0069		0.038	0.0069	mg/Kg	<u></u>	03/29/23 14:14	03/30/23 18:46	1
Acenaphthylene	< 0.0050		0.038	0.0050	mg/Kg	₩	03/29/23 14:14	03/30/23 18:46	1
Anthracene	<0.0064		0.038	0.0064	mg/Kg	₩	03/29/23 14:14	03/30/23 18:46	1
Benzo[a]anthracene	0.033	J	0.038	0.0051	mg/Kg	☼	03/29/23 14:14	03/30/23 18:46	1
Benzo[a]pyrene	0.036	J	0.038	0.0074	mg/Kg	☼	03/29/23 14:14	03/30/23 18:46	1
Benzo[b]fluoranthene	0.044		0.038	0.0083	mg/Kg	₩	03/29/23 14:14	03/30/23 18:46	1
Benzo[g,h,i]perylene	0.020	J	0.038	0.012	mg/Kg	₩	03/29/23 14:14	03/30/23 18:46	1
Benzo[k]fluoranthene	0.014	J	0.038	0.011	mg/Kg	☼	03/29/23 14:14	03/30/23 18:46	1
Chrysene	0.039		0.038	0.010	mg/Kg	☼	03/29/23 14:14	03/30/23 18:46	1
Dibenz(a,h)anthracene	<0.0074		0.038	0.0074	mg/Kg	₩	03/29/23 14:14	03/30/23 18:46	1
Fluoranthene	0.061		0.038	0.0071	mg/Kg	₩	03/29/23 14:14	03/30/23 18:46	1
Fluorene	< 0.0054		0.038	0.0054	mg/Kg	☼	03/29/23 14:14	03/30/23 18:46	1
Indeno[1,2,3-cd]pyrene	0.021	J	0.038	0.0099	mg/Kg	⊅	03/29/23 14:14	03/30/23 18:46	1
Naphthalene	0.0071	J	0.038	0.0059	mg/Kg	₩	03/29/23 14:14	03/30/23 18:46	1
Phenanthrene	0.069		0.038	0.0053	mg/Kg	☼	03/29/23 14:14	03/30/23 18:46	1
Pyrene	0.083		0.038	0.0076	mg/Kg	⊅	03/29/23 14:14	03/30/23 18:46	1
1-Methylnaphthalene	< 0.0093		0.077	0.0093	mg/Kg	₩	03/29/23 14:14	03/30/23 18:46	1
2-Methylnaphthalene	<0.0070		0.077	0.0070	mg/Kg	₩	03/29/23 14:14	03/30/23 18:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Mothod: SW846 80824 - Poly	chlorinated Riphon	vie (PCRe) by Gae Chro	matography	
2-Fluorobiphenyl (Surr)	59	43 - 145	03/29/23 14:14 03/30/23 18:46	1
Terphenyl-d14 (Surr)	80	42 - 157	03/29/23 14:14 03/30/23 18:46	1
Nitrobenzene-d5 (Surr)	54	37 - 147	03/29/23 14:14 03/30/23 18:46	1

N	lethod: SW846 8082A - Polychlorin	ated	Biphenyls (PCE	s) by Ga	s Chro	matograph	y			
Α	nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
P	CB-1016 <	0.0076		0.019	0.0076	mg/Kg	₩	03/29/23 08:05	03/29/23 20:02	1
Р	CB-1221 <	0.0076		0.019	0.0076	mg/Kg	₩	03/29/23 08:05	03/29/23 20:02	1
Р	CB-1232 <	0.0052		0.019	0.0052	mg/Kg	₩	03/29/23 08:05	03/29/23 20:02	1
Р	CB-1242 <	0.0075		0.019	0.0075	mg/Kg	₩	03/29/23 08:05	03/29/23 20:02	1

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Client: K. Singh & Associates, Inc Project/Site: CWC East Block 40441

Client Sample ID: EB-MW-7, 2' to 4'

Date Collected: 03/22/23 13:00 Date Received: 03/24/23 09:50 Lab Sample ID: 500-231195-3

Matrix: Soil

Percent Solids: 85.9

Job ID: 500-231195-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0092		0.019	0.0092	mg/Kg	<u></u>	03/29/23 08:05	03/29/23 20:02	1
PCB-1254	<0.0066		0.019	0.0066	mg/Kg	₩	03/29/23 08:05	03/29/23 20:02	1
PCB-1260	<0.0073		0.019	0.0073	mg/Kg	₩	03/29/23 08:05	03/29/23 20:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		49 - 129				03/29/23 08:05	03/29/23 20:02	1
DCB Decachlorobiphenyl	78		37 - 121				03/29/23 08:05	03/29/23 20:02	1
Analyte	Result	Qualifier	RL _		Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 6010B - I Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.5		1.0		mg/Kg	₽	04/04/23 14:49	04/05/23 17:30	1
Barium	47		1.0	0.12	mg/Kg	≎	04/04/23 14:49	04/05/23 17:30	1
Cadmium	0.43		0.21	0.038	mg/Kg	☆	04/04/23 14:49	04/05/23 17:30	1
Chromium	14		1.0	0.52	mg/Kg	₽	04/04/23 14:49	04/05/23 17:30	1
Lead	18		0.52	0.24	mg/Kg	₽	04/04/23 14:49	04/05/23 17:30	1
Selenium	<0.61		1.0	0.61	mg/Kg	≎	04/04/23 14:49	04/05/23 17:30	1
Silver	0.28	J	0.52	0.13	mg/Kg	₩	04/04/23 14:49	04/05/23 17:30	1
Method: SW846 7471B - I	Mercury (CVAA)								
Analyte	- · · · · · · · · · · · · · · · · · · ·	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0096	malka	— <u>-</u>	04/03/23 18:45	04/04/23 09:48	

### **Definitions/Glossary**

Client: K. Singh & Associates, Inc

Project/Site: CWC East Block 40441

Job ID: 500-231195-1

**Qualifiers** 

**GC/MS VOA** 

Qualifier Qualifier Description

\*+ LCS and/or LCSD is outside acceptance limits, high biased.

**GC/MS Semi VOA** 

Qualifier Qualifier Description

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

**Metals** 

Qualifier Qualifier Description

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

Glossary

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

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

4

5

6

0

10

4.0

13

14

# **QC Association Summary**

Client: K. Singh & Associates, Inc Project/Site: CWC East Block 40441 Job ID: 500-231195-1

#### **GC/MS VOA**

#### **Prep Batch: 704214**

<b>Lab Sample ID</b> 500-231195-1	Client Sample ID EB-MW-1R, 28' to 30'	Prep Type Total/NA	Matrix Soil	Method 5035	Prep Batch
500-231195-2	EB-MW-1R, 63' to 65'	Total/NA	Soil	5035	
500-231195-3	EB-MW-7, 2' to 4'	Total/NA	Soil	5035	
LB3 500-704214/17-A	Method Blank	Total/NA	Solid	5035	
LCS 500-704214/18-A	Lab Control Sample	Total/NA	Solid	5035	

### **Analysis Batch: 704955**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-231195-1	EB-MW-1R, 28' to 30'	Total/NA	Soil	8260B	704214
500-231195-2	EB-MW-1R, 63' to 65'	Total/NA	Soil	8260B	704214
500-231195-3	EB-MW-7, 2' to 4'	Total/NA	Soil	8260B	704214
LB3 500-704214/17-A	Method Blank	Total/NA	Solid	8260B	704214
MB 500-704955/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-704214/18-A	Lab Control Sample	Total/NA	Solid	8260B	704214
LCS 500-704955/5	Lab Control Sample	Total/NA	Solid	8260B	

#### GC/MS Semi VOA

### **Prep Batch: 704849**

Lab Sample ID 500-231195-1	Client Sample ID EB-MW-1R. 28' to 30'	Prep Type Total/NA	Matrix Soil	Method 3546	Prep Batch
500-231195-2	EB-MW-1R, 63' to 65'	Total/NA	Soil	3546	
500-231195-3	EB-MW-7, 2' to 4'	Total/NA	Soil	3546	
MB 500-704849/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-704849/2-A	Lab Control Sample	Total/NA	Solid	3546	

#### **Analysis Batch: 705063**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-231195-2	EB-MW-1R, 63' to 65'	Total/NA	Soil	8270E	704849
500-231195-3	EB-MW-7, 2' to 4'	Total/NA	Soil	8270E	704849

### **Analysis Batch: 707331**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-231195-1	EB-MW-1R, 28' to 30'	Total/NA	Soil	8270E	704849

#### **Analysis Batch: 707567**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-704849/1-A	Method Blank	Total/NA	Solid	8270E	704849
LCS 500-704849/2-A	Lab Control Sample	Total/NA	Solid	8270E	704849

#### **GC Semi VOA**

### **Prep Batch: 704745**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-231195-1	EB-MW-1R, 28' to 30'	Total/NA	Soil	3541	
500-231195-2	EB-MW-1R, 63' to 65'	Total/NA	Soil	3541	
500-231195-3	EB-MW-7, 2' to 4'	Total/NA	Soil	3541	
MB 500-704745/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-704745/3-A	Lab Control Sample	Total/NA	Solid	3541	

# **QC Association Summary**

Client: K. Singh & Associates, Inc Job ID: 500-231195-1 Project/Site: CWC East Block 40441

### **GC Semi VOA**

#### Analysis Batch: 704847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-231195-1	EB-MW-1R, 28' to 30'	Total/NA	Soil	8082A	704745
500-231195-2	EB-MW-1R, 63' to 65'	Total/NA	Soil	8082A	704745
500-231195-3	EB-MW-7, 2' to 4'	Total/NA	Soil	8082A	704745
MB 500-704745/1-A	Method Blank	Total/NA	Solid	8082A	704745
LCS 500-704745/3-A	Lab Control Sample	Total/NA	Solid	8082A	704745

#### **Metals**

#### **Prep Batch: 705616**

Lab Sample ID 500-231195-1	Client Sample ID EB-MW-1R, 28' to 30'	Prep Type Total/NA	Matrix Soil	Method 7471B	Prep Batch
500-231195-2	EB-MW-1R, 63' to 65'	Total/NA	Soil	7471B	
500-231195-3	EB-MW-7, 2' to 4'	Total/NA	Soil	7471B	
MB 500-705616/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-705616/13-A	Lab Control Sample	Total/NA	Solid	7471B	

#### **Analysis Batch: 705821**

Lab Sample ID 500-231195-1	Client Sample ID EB-MW-1R, 28' to 30'	Prep Type Total/NA	Matrix Soil	Method 7471B	Prep Batch 705616
500-231195-2	EB-MW-1R, 63' to 65'	Total/NA	Soil	7471B	705616
500-231195-3	EB-MW-7, 2' to 4'	Total/NA	Soil	7471B	705616
MB 500-705616/12-A	Method Blank	Total/NA	Solid	7471B	705616
LCS 500-705616/13-A	Lab Control Sample	Total/NA	Solid	7471B	705616

#### **Prep Batch: 705829**

Lab Sample ID 500-231195-1	Client Sample ID EB-MW-1R, 28' to 30'	Prep Type Total/NA	Matrix Soil	Method 3050B	Prep Batch
500-231195-2	EB-MW-1R, 63' to 65'	Total/NA	Soil	3050B	
500-231195-3	EB-MW-7, 2' to 4'	Total/NA	Soil	3050B	
MB 500-705829/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-705829/2-A	Lab Control Sample	Total/NA	Solid	3050B	

#### **Analysis Batch: 706313**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-231195-1	EB-MW-1R, 28' to 30'	Total/NA	Soil	6010B	705829
500-231195-2	EB-MW-1R, 63' to 65'	Total/NA	Soil	6010B	705829
500-231195-3	EB-MW-7, 2' to 4'	Total/NA	Soil	6010B	705829
MB 500-705829/1-A	Method Blank	Total/NA	Solid	6010B	705829
LCS 500-705829/2-A	Lab Control Sample	Total/NA	Solid	6010B	705829

### **General Chemistry**

### Analysis Batch: 704186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-231195-1	EB-MW-1R, 28' to 30'	Total/NA	Soil	Moisture	
500-231195-2	EB-MW-1R, 63' to 65'	Total/NA	Soil	Moisture	
500-231195-3	EB-MW-7, 2' to 4'	Total/NA	Soil	Moisture	

Client: K. Singh & Associates, Inc Project/Site: CWC East Block 40441 Job ID: 500-231195-1

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

**Matrix: Soil** Prep Type: Total/NA

DCA BFB DBFM TO
Lab Sample ID Client Sample ID (75-126) (72-124) (75-120) (75-1
500-231195-1 EB-MW-1R, 28' to 30' 113 116 89 109
500-231195-2 EB-MW-1R, 63' to 65' 112 116 88 108
500-231195-3 EB-MW-7, 2' to 4' 113 117 89 109

DCA = 1,2-Dichloroethane-d4 (Surr) BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Prep Type: Total/NA **Matrix: Solid** 

			Pe	ercent Surre	ogate Reco
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
LB3 500-704214/17-A	Method Blank	111	118	91	108
LCS 500-704214/18-A	Lab Control Sample	113	120	93	109
LCS 500-704955/5	Lab Control Sample	110	116	95	109
MB 500-704955/7	Method Blank	112	119	88	110

**Surrogate Legend** 

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

**Matrix: Soil** Prep Type: Total/NA

			Pe	rcent Surrog	ate Recovery (Acceptance Limits)
		NBZ	TPHL	FBP	
Lab Sample ID	Client Sample ID	(37-147)	(42-157)	(43-145)	
500-231195-1	EB-MW-1R, 28' to 30'	69	73	77	
500-231195-2	EB-MW-1R, 63' to 65'	53	74	60	
500-231195-3	EB-MW-7, 2' to 4'	54	80	59	

NBZ = Nitrobenzene-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

FBP = 2-Fluorobiphenyl (Surr)

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

**Matrix: Solid** Prep Type: Total/NA

			Pe	ercent Surroga	e Recovery	y (Acceptance L
		NBZ	TPHL	FBP		
Lab Sample ID	Client Sample ID	(37-147)	(42-157)	(43-145)		
LCS 500-704849/2-A	Lab Control Sample	90	99	92		
MB 500-704849/1-A	Method Blank	70	81	70		
Surrogate Legend						

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### **Surrogate Summary**

Client: K. Singh & Associates, Inc Project/Site: CWC East Block 40441

> TPHL = Terphenyl-d14 (Surr) FBP = 2-Fluorobiphenyl (Surr)

Job ID: 500-231195-1

10

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Matrix: Soil** Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	DCBP1			
Lab Sample ID	Client Sample ID	(49-129)	(37-121)			
500-231195-1	EB-MW-1R, 28' to 30'	85	90			
500-231195-2	EB-MW-1R, 63' to 65'	70	71			
500-231195-3	EB-MW-7. 2' to 4'	81	78			

TCX = Tetrachloro-m-xylene DCBP = DCB Decachlorobiphenyl

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Matrix: Solid** Prep Type: Total/NA

			Percent	t Surrogate Recovery (Acceptance Limits)
		TCX1	DCBP1	
Lab Sample ID	Client Sample ID	(49-129)	(37-121)	
LCS 500-704745/3-A	Lab Control Sample	100	108	
MB 500-704745/1-A	Method Blank	91	97	
Surrogate Legend				
TCX = Tetrachloro-m-x	xylene			
DCBP = DCB Decach	lorobiphenyl			

Client: K. Singh & Associates, Inc Job ID: 500-231195-1

Project/Site: CWC East Block 40441

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

Lab Sample ID: LB3 500-704214/17-A

**Matrix: Solid** 

Naphthalene

n-Butylbenzene

N-Propylbenzene

**Analysis Batch: 704955** 

<b>Client Sam</b>	ple ID:	Meth	od Blank
	Prep	Type:	Total/NA

Prep Batch:	704214	
Analyzed	Dil Fac	

-	LB3	LB3						
Analyte	Result	Qualifier RL	MDL		D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.023	0.050	0.023	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
1,1,1-Trichloroethane	<0.019	0.050	0.019	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
1,1,2,2-Tetrachloroethane	<0.020	0.050		mg/Kg		03/25/23 03:10	03/30/23 12:47	50
1,1,2-Trichloroethane	<0.018	0.050		mg/Kg		03/25/23 03:10	03/30/23 12:47	50
1,1-Dichloroethane	<0.021	0.050	0.021	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
1,1-Dichloroethene	<0.020	0.050	0.020	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
1,1-Dichloropropene	<0.015	0.050	0.015	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
1,2,3-Trichlorobenzene	<0.023	0.050	0.023	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
1,2,3-Trichloropropane	<0.021	0.10	0.021	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
1,2,4-Trichlorobenzene	<0.017	0.050	0.017	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
1,2,4-Trimethylbenzene	<0.018	0.050	0.018	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
1,2-Dibromo-3-Chloropropane	<0.10	0.25	0.10	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
1,2-Dibromoethane (EDB)	<0.019	0.050	0.019	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
1,2-Dichlorobenzene	< 0.017	0.050	0.017	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
1,2-Dichloroethane	<0.020	0.050	0.020	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
1,2-Dichloropropane	<0.021	0.050	0.021	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
1,3,5-Trimethylbenzene	<0.019	0.050	0.019	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
1,3-Dichlorobenzene	<0.020	0.050	0.020	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
1,3-Dichloropropane	<0.018	0.050	0.018	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
1,4-Dichlorobenzene	<0.018	0.050		mg/Kg		03/25/23 03:10	03/30/23 12:47	50
2,2-Dichloropropane	<0.022	0.050	0.022	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
2-Chlorotoluene	<0.016	0.050		mg/Kg		03/25/23 03:10	03/30/23 12:47	50
4-Chlorotoluene	<0.018	0.050		mg/Kg		03/25/23 03:10	03/30/23 12:47	50
Benzene	< 0.0073	0.013	0.0073			03/25/23 03:10	03/30/23 12:47	50
Bromobenzene	<0.018	0.050		mg/Kg			03/30/23 12:47	50
Bromochloromethane	<0.021	0.050		mg/Kg		03/25/23 03:10	03/30/23 12:47	50
Dichlorobromomethane	<0.019	0.050		mg/Kg			03/30/23 12:47	50
Bromoform	<0.024	0.050		mg/Kg		03/25/23 03:10	03/30/23 12:47	50
Bromomethane	<0.040	0.15		mg/Kg			03/30/23 12:47	50
Carbon tetrachloride	<0.019	0.050		mg/Kg		03/25/23 03:10	03/30/23 12:47	50
Chlorobenzene	<0.019	0.050		mg/Kg		03/25/23 03:10	03/30/23 12:47	50
Chloroethane	<0.025	0.050		mg/Kg			03/30/23 12:47	50
Chloroform	<0.019	0.10		mg/Kg			03/30/23 12:47	50
Chloromethane	<0.016	0.050		mg/Kg		03/25/23 03:10		50
cis-1,2-Dichloroethene	<0.020	0.050		mg/Kg			03/30/23 12:47	50
cis-1,3-Dichloropropene	<0.021	0.050		mg/Kg			03/30/23 12:47	50
Dibromochloromethane	<0.024	0.050		mg/Kg			03/30/23 12:47	50
Dibromomethane	<0.014	0.050		mg/Kg			03/30/23 12:47	50
Dichlorodifluoromethane	<0.034	0.15		mg/Kg			03/30/23 12:47	50
Ethylbenzene	<0.0092	0.013	0.0092				03/30/23 12:47	50
Hexachlorobutadiene	<0.002	0.050		mg/Kg			03/30/23 12:47	50
Isopropyl ether	<0.022	0.050		mg/Kg			03/30/23 12:47	50
Isopropylbenzene	<0.014	0.050		mg/Kg			03/30/23 12:47	5(
Methyl tert-butyl ether	<0.019	0.050		mg/Kg			03/30/23 12:47	50
Methylene Chloride	<0.020	0.050		mg/Kg			03/30/23 12:47	50
	~0.002	0.23	0.002	mg/ixg		00120120 00.10	03/30/23 12.47	

**Eurofins Chicago** 

03/25/23 03:10 03/30/23 12:47

03/25/23 03:10 03/30/23 12:47

03/25/23 03:10 03/30/23 12:47

0.050

0.050

0.050

< 0.017

< 0.019

<0.021

0.017 mg/Kg

0.019 mg/Kg

0.021 mg/Kg

50

50

Client: K. Singh & Associates, Inc Job ID: 500-231195-1 Project/Site: CWC East Block 40441

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

Lab Sample ID: LB3 500-704214/17-A **Matrix: Solid** 

**Analysis Batch: 704955** 

**Client Sample ID: Method Blank** 

Prep Type: Total/NA Prep Batch: 704214

	LB3	LB3							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.018		0.050	0.018	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
sec-Butylbenzene	<0.020		0.050	0.020	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
Styrene	<0.019		0.050	0.019	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
tert-Butylbenzene	<0.020		0.050	0.020	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
Tetrachloroethene	<0.019		0.050	0.019	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
Toluene	< 0.0074		0.013	0.0074	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
trans-1,2-Dichloroethene	<0.018		0.050	0.018	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
trans-1,3-Dichloropropene	<0.018		0.050	0.018	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
Trichloroethene	<0.0082		0.025	0.0082	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
Trichlorofluoromethane	<0.021		0.050	0.021	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
Vinyl chloride	<0.013		0.050	0.013	mg/Kg		03/25/23 03:10	03/30/23 12:47	50
Xylenes, Total	<0.011		0.025	0.011	mg/Kg		03/25/23 03:10	03/30/23 12:47	50

LB3 LB3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		75 - 126	03/25/23 03:10	03/30/23 12:47	50
4-Bromofluorobenzene (Surr)	118		72 - 124	03/25/23 03:10	03/30/23 12:47	50
Dibromofluoromethane (Surr)	91		75 - 120	03/25/23 03:10	03/30/23 12:47	50
Toluene-d8 (Surr)	108		75 - 120	03/25/23 03:10	03/30/23 12:47	50

Lab Sample ID: LCS 500-704214/18-A

**Matrix: Solid** 

**Analysis Batch: 704955** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA Prep Batch: 704214

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 1,1,1,2-Tetrachloroethane 2.50 2.62 70 - 125 mg/Kg 105 2.50 1,1,1-Trichloroethane 2.71 mg/Kg 108 70 - 125 2.50 1,1,2,2-Tetrachloroethane 3.05 mg/Kg 122 62 - 1402.50 2.97 1,1,2-Trichloroethane mg/Kg 119 71 - 130 2.50 1,1-Dichloroethane 2.80 mg/Kg 112 70 - 125 1,1-Dichloroethene 2.50 2.41 mg/Kg 97 67 - 122 1,1-Dichloropropene 2.50 2.98 119 70 - 121mg/Kg 1,2,3-Trichlorobenzene 2.50 2.51 100 51 - 145 mg/Kg 2.50 126 1,2,3-Trichloropropane 3.15 mg/Kg 50 - 133 1,2,4-Trichlorobenzene 2.50 2.57 103 57 - 137 mg/Kg 1,2,4-Trimethylbenzene 2.50 2.85 114 70 - 123 mg/Kg 1,2-Dibromo-3-Chloropropane 2.50 2.74 mg/Kg 109 56 - 123 1,2-Dibromoethane (EDB) 2.50 3.01 mg/Kg 120 70 - 125 1,2-Dichlorobenzene 2.50 70 - 125 2.77 mg/Kg 111 1.2-Dichloroethane 2.50 3.18 mg/Kg 127 68 - 127 1,2-Dichloropropane 2.50 2.96 mg/Kg 118 67 - 1301,3,5-Trimethylbenzene 2.50 2.85 mg/Kg 114 70 - 123 2.50 1,3-Dichlorobenzene 2.84 mg/Kg 114 70 - 125 1,3-Dichloropropane 2.50 3.27 131 62 - 136 mg/Kg 1,4-Dichlorobenzene 2.50 2.80 mg/Kg 112 70 - 120 2,2-Dichloropropane 2.50 2.50 mg/Kg 100 58 - 139 122 70 - 125 2-Chlorotoluene 2.50 3.05 mg/Kg 4-Chlorotoluene 2.50 3.10 mg/Kg 124 68 - 124Benzene 2.50 2.88 mg/Kg 115 70 - 120

Client: K. Singh & Associates, Inc Job ID: 500-231195-1 Project/Site: CWC East Block 40441

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

**Matrix: Solid** 

**Analysis Batch: 704955** 

Lab Sample ID: LCS 500-704214/18-A

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

**Prep Batch: 704214** 

Analyte Bromobenzene Bromochloromethane Dichlorobromomethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane cis-1,2-Dichloroethene	2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50		Qualifier *+	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	D %Rec 124 99 113 100 74 102	Limits  70 - 122  65 - 122  69 - 120  56 - 132  40 - 152
Bromochloromethane Dichlorobromomethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane	2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50	2.48 2.82 2.51 1.85 2.56 2.83		mg/Kg mg/Kg mg/Kg mg/Kg	99 113 100 74	65 - 122 69 - 120 56 - 132
Dichlorobromomethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane	2.50 2.50 2.50 2.50 2.50 2.50 2.50	2.82 2.51 1.85 2.56 2.83		mg/Kg mg/Kg mg/Kg	113 100 74	69 <sub>-</sub> 120 56 <sub>-</sub> 132
Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane	2.50 2.50 2.50 2.50 2.50 2.50	2.51 1.85 2.56 2.83		mg/Kg mg/Kg	100 74	56 - 132
Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane	2.50 2.50 2.50 2.50 2.50	1.85 2.56 2.83		mg/Kg	74	
Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane	2.50 2.50 2.50 2.50	2.56 2.83				40 - 152
Chlorobenzene Chloroethane Chloroform Chloromethane	2.50 2.50 2.50	2.83		mg/Kg	102	
Chloroethane Chloroform Chloromethane	2.50 2.50					59 - 133
Chloroform Chloromethane	2.50	2.76		mg/Kg	113	70 - 120
Chloromethane				mg/Kg	110	48 - 136
		2.70		mg/Kg	108	70 - 120
cis-1.2-Dichloroethene	2.50	2.22		mg/Kg	89	56 - 152
	2.50	2.74		mg/Kg	110	70 - 125
cis-1,3-Dichloropropene	2.50	3.07		mg/Kg	123	64 - 127
Dibromochloromethane	2.50	2.53		mg/Kg	101	68 - 125
Dibromomethane	2.50	2.83		mg/Kg	113	70 - 120
Dichlorodifluoromethane	2.50	1.46		mg/Kg	58	40 - 159
Ethylbenzene	2.50	2.76		mg/Kg	110	70 - 123
Hexachlorobutadiene	2.50	3.07		mg/Kg	123	51 - 150
Isopropylbenzene	2.50	2.87		mg/Kg	115	70 - 126
Methyl tert-butyl ether	2.50	2.76		mg/Kg	110	55 - 123
Methylene Chloride	2.50	2.58		mg/Kg	103	69 - 125
Naphthalene	2.50	2.19		mg/Kg	87	53 - 144
n-Butylbenzene	2.50	2.72		mg/Kg	109	68 - 125
N-Propylbenzene	2.50	2.99		mg/Kg	120	69 - 127
p-Isopropyltoluene	2.50	2.63		mg/Kg	105	70 - 125
sec-Butylbenzene	2.50	2.77		mg/Kg	111	70 - 123
Styrene	2.50	2.88		mg/Kg	115	70 - 120
tert-Butylbenzene	2.50	2.78		mg/Kg	111	70 - 121
Tetrachloroethene	2.50	2.97		mg/Kg	119	70 - 128
Toluene	2.50	2.87		mg/Kg	115	70 - 125
trans-1,2-Dichloroethene	2.50	2.59		mg/Kg	104	70 - 125
trans-1,3-Dichloropropene	2.50	3.17		mg/Kg	127	62 - 128
Trichloroethene	2.50	2.63		mg/Kg	105	70 - 125
Trichlorofluoromethane	2.50	2.30		mg/Kg	92	55 - 128
Vinyl chloride	2.50	2.45		mg/Kg	98	64 - 126
Xylenes, Total	5.00	5.86		mg/Kg	117	70 - 125

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	113		75 - 126
4-Bromofluorobenzene (Surr)	120		72 - 124
Dibromofluoromethane (Surr)	93		75 - 120
Toluene-d8 (Surr)	109		75 - 120

Lab Sample ID: MB 500-704955/7

**Matrix: Solid** 

**Analysis Batch: 704955** 

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.00046		0.0010	0.00046	mg/Kg			03/30/23 12:24	1

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Prep Type: Total/NA

Client Sample ID: Method Blank

Client: K. Singh & Associates, Inc
Project/Site: CWC East Block 40441

Job ID: 500-231195-1

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

Lab Sample ID: MB 500-704955/7

Matrix: Solid

**Analysis Batch: 704955** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	Result	Qualifier	RL MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00038	0.0			— <u> </u>		03/30/23 12:24	1
1,1,2,2-Tetrachloroethane	<0.00040	0.0					03/30/23 12:24	1
1,1,2-Trichloroethane	<0.00035	0.0					03/30/23 12:24	1
1,1-Dichloroethane	<0.00041	0.0					03/30/23 12:24	1
1,1-Dichloroethene	<0.00039	0.0		0 0			03/30/23 12:24	1
1,1-Dichloropropene	<0.00030	0.0					03/30/23 12:24	1
1,2,3-Trichlorobenzene	<0.00046	0.0					03/30/23 12:24	1
1,2,3-Trichloropropane	<0.00041	0.0		0 0			03/30/23 12:24	1
1,2,4-Trichlorobenzene	<0.00034	0.0					03/30/23 12:24	1
1,2,4-Trimethylbenzene	<0.00036	0.0					03/30/23 12:24	1
1,2-Dibromo-3-Chloropropane	<0.0020	0.0		mg/Kg			03/30/23 12:24	1
1,2-Dibromoethane (EDB)	<0.00039	0.0					03/30/23 12:24	1
1,2-Dichlorobenzene	<0.00033	0.0					03/30/23 12:24	1
1,2-Dichloroethane	<0.00039	0.0					03/30/23 12:24	1
1,2-Dichloropropane	<0.00043	0.0					03/30/23 12:24	1
1,3,5-Trimethylbenzene	<0.00038	0.0					03/30/23 12:24	1
1,3-Dichlorobenzene	<0.00040	0.0					03/30/23 12:24	1
1,3-Dichloropropane	<0.00036	0.0					03/30/23 12:24	1
1,4-Dichlorobenzene	<0.00036	0.0					03/30/23 12:24	1
2,2-Dichloropropane	<0.00044	0.0					03/30/23 12:24	1
2-Chlorotoluene	<0.00031	0.0					03/30/23 12:24	
4-Chlorotoluene	<0.00035	0.0					03/30/23 12:24	1
Benzene	<0.00015	0.00		0 0			03/30/23 12:24	1
Bromobenzene	<0.00036	0.0					03/30/23 12:24	
Bromochloromethane	<0.00043	0.0					03/30/23 12:24	1
Dichlorobromomethane	<0.00037	0.0					03/30/23 12:24	1
Bromoform	<0.00048	0.0					03/30/23 12:24	1
Bromomethane	<0.00080	0.0					03/30/23 12:24	1
Carbon tetrachloride	<0.00038	0.0					03/30/23 12:24	1
Chlorobenzene	<0.00039	0.0					03/30/23 12:24	1
Chloroethane	<0.00050	0.0					03/30/23 12:24	1
Chloroform	<0.00037	0.0					03/30/23 12:24	1
Chloromethane	<0.00032	0.0					03/30/23 12:24	1
cis-1,2-Dichloroethene	<0.00041	0.0					03/30/23 12:24	1
cis-1,3-Dichloropropene	<0.00042	0.0					03/30/23 12:24	1
Dibromochloromethane	<0.00049	0.0					03/30/23 12:24	1
Dibromomethane	<0.00027	0.0	0.00027	mg/Kg			03/30/23 12:24	1
Dichlorodifluoromethane	<0.00067	0.0					03/30/23 12:24	1
Ethylbenzene	<0.00018	0.00					03/30/23 12:24	1
Hexachlorobutadiene	<0.00045	0.0					03/30/23 12:24	1
Isopropyl ether	<0.00028	0.0					03/30/23 12:24	1
Isopropylbenzene	<0.00038	0.0					03/30/23 12:24	1
Methyl tert-butyl ether	<0.00039	0.0					03/30/23 12:24	1
Methylene Chloride	<0.0016	0.0		mg/Kg			03/30/23 12:24	1
Naphthalene	<0.00033	0.0					03/30/23 12:24	1
n-Butylbenzene	< 0.00039	0.0					03/30/23 12:24	1
N-Propylbenzene	<0.00041	0.0					03/30/23 12:24	1
p-Isopropyltoluene	<0.00036	0.0					03/30/23 12:24	1
sec-Butylbenzene	<0.00040	0.0					03/30/23 12:24	1

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Client: K. Singh & Associates, Inc Job ID: 500-231195-1 Project/Site: CWC East Block 40441

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

Lab Sample ID: MB 500-704955/7

**Matrix: Solid** 

**Analysis Batch: 704955** 

**Client Sample ID: Method Blank** 

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.00039		0.0010	0.00039	mg/Kg			03/30/23 12:24	1
tert-Butylbenzene	<0.00040		0.0010	0.00040	mg/Kg			03/30/23 12:24	1
Tetrachloroethene	< 0.00037		0.0010	0.00037	mg/Kg			03/30/23 12:24	1
Toluene	<0.00015		0.00025	0.00015	mg/Kg			03/30/23 12:24	1
trans-1,2-Dichloroethene	<0.00035		0.0010	0.00035	mg/Kg			03/30/23 12:24	1
trans-1,3-Dichloropropene	< 0.00036		0.0010	0.00036	mg/Kg			03/30/23 12:24	1
Trichloroethene	<0.00016		0.00050	0.00016	mg/Kg			03/30/23 12:24	1
Trichlorofluoromethane	<0.00043		0.0010	0.00043	mg/Kg			03/30/23 12:24	1
Vinyl chloride	<0.00026		0.0010	0.00026	mg/Kg			03/30/23 12:24	1
Xylenes, Total	<0.00022		0.00050	0.00022	mg/Kg			03/30/23 12:24	1

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 112 75 - 126 03/30/23 12:24 72 - 124 03/30/23 12:24 4-Bromofluorobenzene (Surr) 119 Dibromofluoromethane (Surr) 88 75 - 120 03/30/23 12:24 Toluene-d8 (Surr) 110 75 - 120 03/30/23 12:24

Lab Sample ID: LCS 500-704955/5

**Matrix: Solid** 

Client S	Sample I	D:	Lab	C	ontro	I San	nple
			Prer	١٦	vne:	Total	/NA

Analysis Batch: 704955								
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1,1,2-Tetrachloroethane	0.0500	0.0424		mg/Kg		85	70 - 125	-
1,1,1-Trichloroethane	0.0500	0.0445		mg/Kg		89	70 - 125	
1,1,2,2-Tetrachloroethane	0.0500	0.0447		mg/Kg		89	62 - 140	
1,1,2-Trichloroethane	0.0500	0.0469		mg/Kg		94	71 - 130	
1,1-Dichloroethane	0.0500	0.0457		mg/Kg		91	70 - 125	
1,1-Dichloroethene	0.0500	0.0424		mg/Kg		85	67 - 122	
1,1-Dichloropropene	0.0500	0.0496		mg/Kg		99	70 - 121	
1,2,3-Trichlorobenzene	0.0500	0.0435		mg/Kg		87	51 - 145	
1,2,3-Trichloropropane	0.0500	0.0468		mg/Kg		94	50 - 133	
1,2,4-Trichlorobenzene	0.0500	0.0460		mg/Kg		92	57 - 137	
1,2,4-Trimethylbenzene	0.0500	0.0450		mg/Kg		90	70 - 123	
1,2-Dibromo-3-Chloropropane	0.0500	0.0419		mg/Kg		84	56 - 123	
1,2-Dibromoethane (EDB)	0.0500	0.0477		mg/Kg		95	70 - 125	
1,2-Dichlorobenzene	0.0500	0.0438		mg/Kg		88	70 - 125	
1,2-Dichloroethane	0.0500	0.0496		mg/Kg		99	68 - 127	
1,2-Dichloropropane	0.0500	0.0457		mg/Kg		91	67 - 130	
1,3,5-Trimethylbenzene	0.0500	0.0452		mg/Kg		90	70 - 123	
1,3-Dichlorobenzene	0.0500	0.0456		mg/Kg		91	70 - 125	
1,3-Dichloropropane	0.0500	0.0504		mg/Kg		101	62 - 136	
1,4-Dichlorobenzene	0.0500	0.0450		mg/Kg		90	70 - 120	
2,2-Dichloropropane	0.0500	0.0408		mg/Kg		82	58 - 139	
2-Chlorotoluene	0.0500	0.0473		mg/Kg		95	70 - 125	
4-Chlorotoluene	0.0500	0.0485		mg/Kg		97	68 - 124	
Benzene	0.0500	0.0469		mg/Kg		94	70 - 120	
Bromobenzene	0.0500	0.0477		mg/Kg		95	70 - 122	
Bromochloromethane	0.0500	0.0411		mg/Kg		82	65 - 122	

Client: K. Singh & Associates, Inc Job ID: 500-231195-1
Project/Site: CWC East Block 40441

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

Lab Sample ID: LCS 500-704955/5

Matrix: Solid

**Analysis Batch: 704955** 

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

LCS LCS Spike %Rec Added Result Qualifier Unit %Rec Limits Dichlorobromomethane 0.0500 0.0434 mg/Kg 87 69 - 120 Bromoform 0.0500 0.0404 mg/Kg 81 56 - 132 0.0500 0.0409 Bromomethane 82 40 - 152 mg/Kg Carbon tetrachloride 0.0500 0.0422 mg/Kg 84 59 - 133 Chlorobenzene 0.0500 0.0453 91 70 - 120 mg/Kg Chloroethane 0.0500 0.0510 mg/Kg 102 48 - 136 Chloroform 0.0500 0.0440 mg/Kg 88 70 - 120Chloromethane 0.0500 0.0510 mg/Kg 102 56 - 152 mg/Kg cis-1,2-Dichloroethene 0.0500 0.0448 90 70 - 12598 64 - 127 cis-1,3-Dichloropropene 0.0500 0.0489 mg/Kg Dibromochloromethane 80 0.0500 0.0398 mg/Kg 68 - 125 87 Dibromomethane 0.0500 0.0437 70 - 120 mg/Kg Dichlorodifluoromethane 0.0500 0.0523 105 40 - 159 mg/Kg 70 - 123 Ethylbenzene 0.0500 0.0441 mg/Kg 88 Hexachlorobutadiene 0.0500 0.0537 107 51 - 150mg/Kg Isopropylbenzene 0.0500 0.0451 mg/Kg 90 70 - 126 Methyl tert-butyl ether 0.0500 0.0420 84 55 - 123 mg/Kg Methylene Chloride 0.0500 0.0428 mg/Kg 86 69 - 125 71 Naphthalene 0.0500 0.0354 mg/Kg 53 - 144 n-Butylbenzene 0.0500 0.0461 92 68 - 125 mg/Kg N-Propylbenzene 0.0500 0.0475 mg/Kg 95 69 - 127 p-Isopropyltoluene 0.0500 0.0433 mg/Kg 87 70 - 125 0.0442 70 - 123 sec-Butylbenzene 0.0500 mg/Kg 88 Styrene 0.0500 0.0459 92 70 - 120 mg/Kg 87 tert-Butylbenzene 0.0500 0.0437 mg/Kg 70 - 121

0.0500

0.0500

0.0500

0.0500

0.0500

0.0500

0.0500

0.100

0.0489

0.0457

0.0420

0.0498

0.0425

0.0430

0.0487

0.0953

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		75 - 126
4-Bromofluorobenzene (Surr)	116		72 - 124
Dibromofluoromethane (Surr)	95		75 - 120
Toluene-d8 (Surr)	109		75 - 120

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

Lab Sample ID: MB 500-704849/1-A

**Matrix: Solid** 

Tetrachloroethene

Trichloroethene

Vinyl chloride

Xylenes, Total

trans-1,2-Dichloroethene

trans-1,3-Dichloropropene

Trichlorofluoromethane

Toluene

**Analysis Batch: 707567** 

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

98

91

84

100

85

86

97

95

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

70 - 128

70 - 125

70 - 125

62 - 128

70 - 125

55 - 128

64 - 126

70 - 125

**Prep Batch: 704849** 

	MB	MB						•	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		03/29/23 14:14	04/13/23 10:07	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		03/29/23 14:14	04/13/23 10:07	1

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Client: K. Singh & Associates, Inc Project/Site: CWC East Block 40441 Job ID: 500-231195-1

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

MB MB

Lab Sample ID: MB 500-704849/1-A

**Matrix: Solid** 

**Analysis Batch: 707567** 

**Client Sample ID: Method Blank** 

**Prep Type: Total/NA** 

**Prep Batch: 704849** 

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<0.0056		0.033	0.0056	mg/Kg		03/29/23 14:14	04/13/23 10:07	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		03/29/23 14:14	04/13/23 10:07	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		03/29/23 14:14	04/13/23 10:07	1
Benzo[b]fluoranthene	< 0.0072		0.033	0.0072	mg/Kg		03/29/23 14:14	04/13/23 10:07	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		03/29/23 14:14	04/13/23 10:07	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		03/29/23 14:14	04/13/23 10:07	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		03/29/23 14:14	04/13/23 10:07	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		03/29/23 14:14	04/13/23 10:07	1
Fluoranthene	< 0.0062		0.033	0.0062	mg/Kg		03/29/23 14:14	04/13/23 10:07	1
Fluorene	< 0.0047		0.033	0.0047	mg/Kg		03/29/23 14:14	04/13/23 10:07	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		03/29/23 14:14	04/13/23 10:07	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		03/29/23 14:14	04/13/23 10:07	1
Phenanthrene	< 0.0046		0.033	0.0046	mg/Kg		03/29/23 14:14	04/13/23 10:07	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		03/29/23 14:14	04/13/23 10:07	1
1-Methylnaphthalene	<0.0081		0.067	0.0081	mg/Kg		03/29/23 14:14	04/13/23 10:07	1
2-Methylnaphthalene	< 0.0061		0.067	0.0061	mg/Kg		03/29/23 14:14	04/13/23 10:07	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	70	37 - 147	03/29/23 14:14	04/13/23 10:07	1
Terphenyl-d14 (Surr)	81	42 - 157	03/29/23 14:14	04/13/23 10:07	1
2-Fluorobiphenyl (Surr)	70	43 - 145	03/29/23 14:14	04/13/23 10:07	1

Lab Sample ID: LCS 500-704849/2-A

**Matrix: Solid** 

Analysis Batch: 707567

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

Prep Type: Total/NA **Prep Batch: 704849** 

Analysis Batch: 707567	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthene	3.33	3.12		mg/Kg		94	65 - 124
Acenaphthylene	3.33	3.41		mg/Kg		102	68 - 120
Anthracene	3.33	3.33		mg/Kg		100	70 - 114
Benzo[a]anthracene	3.33	3.19		mg/Kg		96	67 - 122
Benzo[a]pyrene	3.33	3.01		mg/Kg		90	65 - 133
Benzo[b]fluoranthene	3.33	3.06		mg/Kg		92	69 - 129
Benzo[g,h,i]perylene	3.33	3.23		mg/Kg		97	72 - 131
Benzo[k]fluoranthene	3.33	3.47		mg/Kg		104	68 - 127
Chrysene	3.33	3.08		mg/Kg		93	63 - 120
Dibenz(a,h)anthracene	3.33	2.89		mg/Kg		87	64 - 131
Fluoranthene	3.33	3.34		mg/Kg		100	62 - 120
Fluorene	3.33	3.24		mg/Kg		97	62 - 120
Indeno[1,2,3-cd]pyrene	3.33	3.22		mg/Kg		97	68 - 130
Naphthalene	3.33	3.07		mg/Kg		92	63 - 110
Phenanthrene	3.33	3.19		mg/Kg		96	62 - 120
Pyrene	3.33	3.41		mg/Kg		102	61 - 128
1-Methylnaphthalene	3.33	3.16		mg/Kg		95	68 - 111
2-Methylnaphthalene	3.33	3.23		mg/Kg		97	69 - 112
100	1.00						

LCS LCS

%Recovery Qualifier Surrogate Limits Nitrobenzene-d5 (Surr) 90 37 - 147

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Job ID: 500-231195-1

Client: K. Singh & Associates, Inc Project/Site: CWC East Block 40441

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

Lab Sample ID: LCS 500-704849/2-A

**Matrix: Solid** 

**Analysis Batch: 707567** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

**Prep Batch: 704849** 

LCS LCS

Surrogate %Recovery Qualifier Limits Terphenyl-d14 (Surr) 99 42 - 157 2-Fluorobiphenyl (Surr) 92 43 - 145

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-704745/1-A

**Matrix: Solid** 

**Analysis Batch: 704847** 

**Client Sample ID: Method Blank** 

**Prep Type: Total/NA** 

Prep Batch: 704745

мв мв

**MDL** Unit **Analyte** Result Qualifier RL Prepared Analyzed Dil Fac PCB-1016 0.017 <0.0066 0.0066 mg/Kg 03/29/23 08:05 03/29/23 15:47 PCB-1221 03/29/23 08:05 03/29/23 15:47 <0.0066 0.017 0.0066 mg/Kg 1 PCB-1232 <0.0045 0.0045 mg/Kg 03/29/23 08:05 03/29/23 15:47 0.017 03/29/23 08:05 03/29/23 15:47 PCB-1242 < 0.0065 0.017 0.0065 mg/Kg PCB-1248 < 0.0079 0.017 0.0079 mg/Kg 03/29/23 08:05 03/29/23 15:47 < 0.0057 PCB-1254 0.017 0.0057 mg/Kg 03/29/23 08:05 03/29/23 15:47 PCB-1260 < 0.0063 0.017 0.0063 mg/Kg 03/29/23 08:05 03/29/23 15:47

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	91		49 - 129	03/29/23 08:05	03/29/23 15:47	1
DCB Decachlorobiphenyl	97		37 - 121	03/29/23 08:05	03/29/23 15:47	1

Lab Sample ID: LCS 500-704745/3-A

**Matrix: Solid** 

**Analysis Batch: 704847** 

**Client Sample ID: Lab Control Sample** 

**Prep Type: Total/NA** Prep Batch: 704745

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
PCB-1016		0.167	0.149		mg/Kg		89	57 - 120	
PCB-1260		0.167	0.165		mg/Kg		99	61 - 125	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
Tetrachloro-m-xylene	100	49 - 129
DCB Decachlorobiphenyl	108	37 - 121

#### Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-705829/1-A

**Matrix: Solid** 

**Analysis Batch: 706313** 

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

**Prep Batch: 705829** 

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		04/04/23 14:49	04/05/23 16:36	1
Barium	<0.11		1.0	0.11	mg/Kg		04/04/23 14:49	04/05/23 16:36	1
Cadmium	<0.036		0.20	0.036	mg/Kg		04/04/23 14:49	04/05/23 16:36	1
Chromium	<0.50		1.0	0.50	mg/Kg		04/04/23 14:49	04/05/23 16:36	1
Lead	<0.23		0.50	0.23	mg/Kg		04/04/23 14:49	04/05/23 16:36	1
Selenium	<0.59		1.0	0.59	mg/Kg		04/04/23 14:49	04/05/23 16:36	1
Silver	<0.13		0.50	0.13	mg/Kg		04/04/23 14:49	04/05/23 16:36	1

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Client: K. Singh & Associates, Inc Job ID: 500-231195-1 Project/Site: CWC East Block 40441

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

Lab Sample ID: LCS 500-705829/2-A

**Matrix: Solid** Analysis Batch: 706313 **Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA Prep Batch: 705829

Alialysis Dalcil. 100313						Fiep Datcii. 103029
	Spike	LCS	LCS			%Rec
Analyte	Added	Result	Qualifier	Unit I	D %Rec	Limits
Arsenic	10.0	9.23		mg/Kg	92	80 - 120
Barium	200	190		mg/Kg	95	80 - 120
Cadmium	5.00	4.79		mg/Kg	96	80 - 120
Chromium	20.0	19.0		mg/Kg	95	80 - 120
Lead	10.0	9.14		mg/Kg	91	80 - 120
Selenium	10.0	8.27		mg/Kg	83	80 - 120
Silver	5.00	4.50		mg/Kg	90	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-705616/12-A

**Matrix: Solid** 

Analysis Batch: 705821

**Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 705616** 

**Client Sample ID: Lab Control Sample** 

Analyte Result Qualifier RL **MDL** Unit Analyzed Dil Fac Prepared 0.017 0.0088 mg/Kg 04/03/23 18:45 04/04/23 09:19 Mercury <0.0088

Lab Sample ID: LCS 500-705616/13-A

**Matrix: Solid** 

Analysis Batch: 705821

Prep Type: Total/NA **Prep Batch: 705616** 

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec 0.165 0.155 Mercury mg/Kg 94 80 - 120

MB MB

#### **Lab Chronicle**

Client: K. Singh & Associates, Inc Project/Site: CWC East Block 40441

Client Sample ID: EB-MW-1R, 28' to 30' Lab Sample ID: 500-231195-1

Date Collected: 03/21/23 14:30 **Matrix: Soil** Date Received: 03/24/23 09:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	Moisture		1	704186	LWN	EET CHI	03/24/23 15:15

Client Sample ID: EB-MW-1R, 28' to 30'

Lab Sample ID: 500-231195-1 Date Collected: 03/21/23 14:30 **Matrix: Soil** Date Received: 03/24/23 09:50 Percent Solids: 80.1

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			704214	WRE	EET CHI	03/22/23 14:30
Total/NA	Analysis	8260B		50	704955	W1T	EET CHI	03/30/23 14:42
Total/NA	Prep	3546			704849	GM	EET CHI	03/29/23 14:14
Total/NA	Analysis	8270E		2	707331	JSB	EET CHI	04/12/23 13:00
Total/NA	Prep	3541			704745	GM	EET CHI	03/29/23 08:05 - 03/29/23 12:20 1
Total/NA	Analysis	8082A		1	704847	SS	EET CHI	03/29/23 19:32
Total/NA	Prep	3050B			705829	RN	EET CHI	04/04/23 14:49 - 04/04/23 15:19 1
Total/NA	Analysis	6010B		1	706313	CMS	EET CHI	04/05/23 17:17
Total/NA	Prep	7471B			705616	MJG	EET CHI	04/03/23 18:45
Total/NA	Analysis	7471B		1	705821	MJG	EET CHI	04/04/23 09:41

Client Sample ID: EB-MW-1R, 63' to 65'

Lab Sample ID: 500-231195-2 Date Collected: 03/22/23 11:10 **Matrix: Soil** 

Date Received: 03/24/23 09:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	Moisture		1	704186	LWN	EET CHI	03/24/23 15:15

Client Sample ID: EB-MW-1R, 63' to 65' Lab Sample ID: 500-231195-2

Date Collected: 03/22/23 11:10 **Matrix: Soil** Date Received: 03/24/23 09:50 Percent Solids: 91.6

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			704214	WRE	EET CHI	03/22/23 11:10
Total/NA	Analysis	8260B		50	704955	W1T	EET CHI	03/30/23 15:04
Total/NA	Prep	3546			704849	GM	EET CHI	03/29/23 14:14
Total/NA	Analysis	8270E		1	705063	SS	EET CHI	03/30/23 18:26
Total/NA	Prep	3541			704745	GM	EET CHI	03/29/23 08:05 - 03/29/23 12:20 1
Total/NA	Analysis	8082A		1	704847	SS	EET CHI	03/29/23 19:47
Total/NA	Prep	3050B			705829	RN	EET CHI	04/04/23 14:49 - 04/04/23 15:19 1
Total/NA	Analysis	6010B		1	706313	CMS	EET CHI	04/05/23 17:20
Total/NA	Prep	7471B			705616	MJG	EET CHI	04/03/23 18:45
Total/NA	Analysis	7471B		1	705821	MJG	EET CHI	04/04/23 09:46

**Eurofins Chicago** 

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Job ID: 500-231195-1

#### **Lab Chronicle**

Client: K. Singh & Associates, Inc Job ID: 500-231195-1

Project/Site: CWC East Block 40441

Client Sample ID: EB-MW-7, 2' to 4'

Lab Sample ID: 500-231195-3

Date Collected: 03/22/23 13:00 Matrix: Soil Date Received: 03/24/23 09:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	Moisture		1	704186	LWN	EET CHI	03/24/23 15:15

Client Sample ID: EB-MW-7, 2' to 4'

Lab Sample ID: 500-231195-3

Date Collected: 03/22/23 13:00 Matrix: Soil
Date Received: 03/24/23 09:50 Percent Solids: 85.9

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035	<del></del>		704214	WRE	EET CHI	03/22/23 13:00
Total/NA	Analysis	8260B		50	704955	W1T	EET CHI	03/30/23 15:27
Total/NA	Prep	3546			704849	GM	EET CHI	03/29/23 14:14
Total/NA	Analysis	8270E		1	705063	SS	EET CHI	03/30/23 18:46
Total/NA	Prep	3541			704745	GM	EET CHI	03/29/23 08:05 - 03/29/23 12:20
Total/NA	Analysis	8082A		1	704847	SS	EET CHI	03/29/23 20:02
Total/NA	Prep	3050B			705829	RN	EET CHI	04/04/23 14:49 - 04/04/23 15:19
Total/NA	Analysis	6010B		1	706313	CMS	EET CHI	04/05/23 17:30
Total/NA	Prep	7471B			705616	MJG	EET CHI	04/03/23 18:45
Total/NA	Analysis	7471B		1	705821	MJG	EET CHI	04/04/23 09:48

<sup>1</sup> Completion dates and times are reported or not reported per method requirements or individual lab discretion.

#### **Laboratory References:**

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

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# **Accreditation/Certification Summary**

Client: K. Singh & Associates, Inc Job ID: 500-231195-1

Project/Site: CWC East Block 40441

### **Laboratory: Eurofins Chicago**

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

Authority	Program	Identification Number	<b>Expiration Date</b>
Wisconsin	State	999580010	08-31-23

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Sample Collector(s)				P. N. Y.	Title						Teleph	one # (II	ncl area	code)				Report To			······································		
Dan Pelczar					Senior Geologist						(262) 8	21 1171						Robert Reineke & Dan Pelczar					
Property Owner			50	0-231195 COC	Property Address						Teleph	one # (ii	ncl area	code)				KSingh Proj	ect#				
CWC East Block				_	2748 N 32nd St. Milwai	ikee Wi	e WI					40441											
I hereby certify that I rece	eived properl	y and dispos	sed of the sar	mples as noted below							Laboratory Name Eurofins Received By (Signature)									=	1// 5	> 2 2	
Relinquished By (Signatu	Elen	za4			Date/Time/ 3/23/2	02	3					<u>&gt;</u> /	ru		3/2	3/2		450	remaining	were received you may re	port the te	there was ice mperature as	
Relinquished By (Signatu	n	3/2		3 530	Date/Time						Receive	- 1/	signature Www	J	co	#	3/2 (	24/23 1950		of the melt		as melted the stituted for the	
1 Specify grou	indwater (GV	/), soil (S) air	r (A), sludge	(SL) surface water (SW)	etc														S	ample Condit	ion		
2 Sample des	cription must		ate the samp oples	ole I D to the sampling loa	cation	3260B)	(ZZ0D)	3082A)	Aetals 7471B)										# / Type o	of Container			
Date Collected	Time Collected	Type (1)	Device	Location/E	escription (2)	VOCs (8260B)	PAHs (8270D)	PCBs (8082A)	RCRA Metals (60108/74718)									MeOH	HCL	H2SO4	Unpres	Other Comment	
3/21/2023	2 30	Soil	SS	EB-MW 1	R, 28' to 30'	х	x	х	x									1			2		
3/22/2023	11 10	Soil	SS	EB-MW 1	EB-MW 1R 63' to 65'		x	х	х									1			2		
3/22/2023	1 00	Soil	SS	EB-MW	7 2' to 4	х	х	х	×									1			2		
					DEPAR	TMENT	JSE ON	LY															
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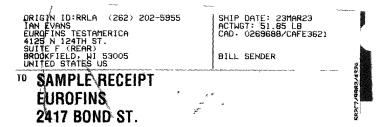
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### **Login Sample Receipt Checklist**

Client: K. Singh & Associates, Inc

Job Number: 500-231195-1

SDG Number:

Login Number: 231195 List Source: Eurofins Chicago

List Number: 1

Creator: Scott, Sherri L

Creator: Scott, Sherri L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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### **ATTACHMENT C**

Groundwater Laboratory Analytical Reports



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# **ANALYTICAL REPORT**

### PREPARED FOR

Attn: Mr. Robert Reineke K. Singh & Associates, Inc 3636 N. 124th Street Wauwatosa, Wisconsin 53222

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### **JOB DESCRIPTION**

Community Within the Corridor - 40441

# **JOB NUMBER**

500-242632-1

Eurofins Chicago 2417 Bond Street University Park IL 60484



# **Eurofins Chicago**

#### **Job Notes**

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

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

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

### **Compliance Statement**

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

#### **Definitions of Limits**

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

### **Authorization**

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

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#### **Case Narrative**

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor - 40441

Job ID: 500-242632-1

**Laboratory: Eurofins Chicago** 

**Narrative** 

Job Narrative 500-242632-1

#### Receipt

The samples were received on 11/16/2023 10:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.1° C and 1.8° C.

#### **Receipt Exceptions**

Received 2 VOA vials empty for sample 3.

Received one VOA vial for sample -1 and two VOA vials for samples -2, -4, and -5 with headspace.

Received eight bottles for sample -1; chain of custody has six.

#### GC/MS VOA

Method 8260B: The laboratory control sample (LCS) for analytical batch 500-743209 recovered outside control limits for the following analytes: Vinyl chloride, 1,1-Dichloroethene, Tetrachloroethene, Trichlorofluoromethane and trans-1,2-Dichloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Methods 8260B, 8260D: Methylene chloride was detected in the following items: EB-MW-2 (500-242632-1), EB-MW-4R (500-242632-2), EB-MW-6 (500-242632-3), EB-MW-5 (500-242632-4), DUP-1 (500-242632-5) and Trip Blank (500-242632-6). Methylene chloride is a known lab contaminant; therefore all low level detects for this compound could be suspected as lab contamination.

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

#### GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-743245 was outside the method criteria for the following analyte(s): Indeno[1,2,3-cd]pyrene and Benzo[a]pyrene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample: EB-MW-4R (500-242632-2).

Method 8270D: The following sample required a dilution due to the nature of the sample matrix: EB-MW-4R (500-242632-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

#### GC Semi VOA

Method 8082A: The following sample was diluted to bring the concentration of target analytes within the calibration range: EB-MW-4R (500-242632-2). Elevated reporting limits (RLs) are provided.

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

#### Metals

Method 6020A: The filtered method blank for preparation batch 500-744482 and 500-744675 and analytical batch 500-745793 contained Lead above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

#### **Organic Prep**

Method 3510C: Elevated reporting limits are provided for the following sample due to insufficient sample provided for 8082A preparation: DUP-1 (500-242632-5).

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with

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Job ID: 500-242632-1

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#### **Case Narrative**

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor - 40441

Job ID: 500-242632-1

### Job ID: 500-242632-1 (Continued)

**Laboratory: Eurofins Chicago (Continued)** 

preparation batch 480-693020.

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

Project/Site: Community Within the Corridor - 40441

Job ID: 500-242632-1

### Client Sample ID: EB-MW-2

### Lab Sample ID: 500-242632-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Benzene	6.8		0.50	0.15	ug/L	1	8260B	Total/NA
Chloroethane	7.6		5.0	0.51	ug/L	1	8260B	Total/NA
cis-1,2-Dichloroethene	5.4		1.0	0.41	ug/L	1	8260B	Total/NA
1,1-Dichloroethane	21		1.0	0.41	ug/L	1	8260B	Total/NA
Ethylbenzene	17		0.50	0.18	ug/L	1	8260B	Total/NA
Isopropylbenzene	6.6		1.0	0.39	ug/L	1	8260B	Total/NA
Methylene Chloride	2.8	J	5.0	1.6	ug/L	1	8260B	Total/NA
Naphthalene	4.7		1.0	0.34	ug/L	1	8260B	Total/NA
n-Butylbenzene	13		1.0	0.39	ug/L	1	8260B	Total/NA
N-Propylbenzene	10		1.0	0.41	ug/L	1	8260B	Total/NA
p-Isopropyltoluene	4.4		1.0	0.36	ug/L	1	8260B	Total/NA
sec-Butylbenzene	8.2		1.0	0.40	ug/L	1	8260B	Total/NA
Toluene	0.92		0.50	0.15	ug/L	1	8260B	Total/NA
1,1,1-Trichloroethane	3.2		1.0	0.38	ug/L	1	8260B	Total/NA
Trichloroethene	11		0.50	0.16	ug/L	1	8260B	Total/NA
1,2,4-Trimethylbenzene	52		1.0	0.36	ug/L	1	8260B	Total/NA
1,3,5-Trimethylbenzene	13		1.0	0.25	ug/L	1	8260B	Total/NA
Xylenes, Total	20		1.0	0.22	ug/L	1	8260B	Total/NA
1-Methylnaphthalene	1.0	J	1.6	0.24	ug/L	1	8270D	Total/NA
2-Methylnaphthalene	0.26	J	1.6	0.052	ug/L	1	8270D	Total/NA
Naphthalene	4.0		0.79	0.25	ug/L	1	8270D	Total/NA
PCB-1248	0.31	J	0.50	0.18	ug/L	1	8082A	Total/NA
Arsenic	0.92	J	1.0	0.23	ug/L	1	6020A	Dissolved
Barium	130		2.5	0.73	ug/L	1	6020A	Dissolved
Lead	0.47	JΒ	0.50	0.19	ug/L	1	6020A	Dissolved

### Client Sample ID: EB-MW-4R

### Lab Sample ID: 500-242632-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Methylene Chloride	2.2	J	5.0	1.6	ug/L	1	8260B	Total/NA
PCB-1260	56		10	5.0	ug/L	20	8082A	Total/NA
Arsenic	0.34	J	1.0	0.23	ug/L	1	6020A	Dissolved
Barium	68		2.5	0.73	ug/L	1	6020A	Dissolved
Cadmium	0.20	J	0.50	0.17	ug/L	1	6020A	Dissolved
Lead	0.62	В	0.50	0.19	ug/L	1	6020A	Dissolved

### **Client Sample ID: EB-MW-6**

### Lab Sample ID: 500-242632-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	2.2	J	5.0	1.6	ug/L		_	8260B	Total/NA
Benzo[a]anthracene	0.24		0.16	0.046	ug/L	1		8270D	Total/NA
Benzo[a]pyrene	0.22		0.16	0.080	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.27		0.16	0.065	ug/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.10	J	0.16	0.052	ug/L	1		8270D	Total/NA
Chrysene	0.23		0.16	0.055	ug/L	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.20		0.16	0.060	ug/L	1		8270D	Total/NA
2-Methylnaphthalene	0.11	J	1.6	0.053	ug/L	1		8270D	Total/NA
Phenanthrene	0.24	J	0.81	0.24	ug/L	1		8270D	Total/NA
Arsenic	0.68	J	1.0	0.23	ug/L	1		6020A	Dissolved
Barium	15		2.5	0.73	ug/L	1		6020A	Dissolved
Cadmium	0.28	J	0.50	0.17	ug/L	1		6020A	Dissolved
Lead	1.1	В	0.50	0.19	ug/L	1		6020A	Dissolved

This Detection Summary does not include radiochemical test results.

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### **Detection Summary**

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor - 40441

Client Sample ID: EB-MW-5 Lab Sample ID: 500-242632-4

Analyte	Result (	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.9		5.0	1.6	ug/L	1	_	8260B	Total/NA
Arsenic	0.56	J	1.0	0.23	ug/L	1		6020A	Dissolved
Barium	45		2.5	0.73	ug/L	1		6020A	Dissolved
Lead	1.4	В	0.50	0.19	ug/L	1		6020A	Dissolved
Selenium	12		2.5	0.98	ug/L	1		6020A	Dissolved

**Client Sample ID: DUP-1** 

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Benzene	5.8		0.50	0.15	ug/L		8260B	Total/NA
Chloroethane	7.1		5.0	0.51	ug/L	1	8260B	Total/NA
cis-1,2-Dichloroethene	3.9		1.0	0.41	ug/L	1	8260B	Total/NA
1,1-Dichloroethane	20		1.0	0.41	ug/L	1	8260B	Total/NA
Isopropylbenzene	3.8		1.0	0.39	ug/L	1	8260B	Total/NA
Methylene Chloride	1.7	J	5.0	1.6	ug/L	1	8260B	Total/NA
N-Propylbenzene	3.6		1.0	0.41	ug/L	1	8260B	Total/NA
sec-Butylbenzene	4.1		1.0	0.40	ug/L	1	8260B	Total/NA
tert-Butylbenzene	1.3		1.0	0.40	ug/L	1	8260B	Total/NA
1,1,1-Trichloroethane	3.2		1.0	0.38	ug/L	1	8260B	Total/NA
Trichloroethene	14		0.50	0.16	ug/L	1	8260B	Total/NA
1,2,4-Trimethylbenzene	1.1		1.0	0.36	ug/L	1	8260B	Total/NA
Acenaphthene	0.31	J	0.76	0.23	ug/L	1	8270D	Total/NA
Benzo[a]anthracene	0.19		0.15	0.043	ug/L	1	8270D	Total/NA
Benzo[b]fluoranthene	0.12	J	0.15	0.061	ug/L	1	8270D	Total/NA
Chrysene	0.19		0.15	0.051	ug/L	1	8270D	Total/NA
Fluorene	0.21	J	0.76	0.18	ug/L	1	8270D	Total/NA
1-Methylnaphthalene	0.74	J	1.5	0.23	ug/L	1	8270D	Total/NA

Client Sample ID: Trip Blank

Naphthalene

PCB-1260

Arsenic

Barium

Lead

_					
Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Methylene Chloride	18 J	5.0	1.6 ug/l	1	Total/NA

0.76

1.0

1.0

2.5

0.50

0.23 ug/L

0.50 ug/L

0.23 ug/L

0.73 ug/L

0.19 ug/L

0.34 J

0.62 J

0.63 B

3.0

130

This Detection Summary does not include radiochemical test results.

Job ID: 500-242632-1

Lab Sample ID: 500-242632-5

8270D

8082A

6020A

6020A

6020A

Lab Sample ID: 500-242632-6

1

Total/NA

Total/NA

Dissolved

Dissolved

Dissolved

### **Method Summary**

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor - 40441

Method	Method Description	Protocol	Laboratory
3260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
3270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
3082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET BUF
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
FILTRATION	Sample Filtration	None	EET CHI

#### **Protocol References:**

None = None

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

#### **Laboratory References:**

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600 EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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12

### **Sample Summary**

Client: K. Singh & Associates, Inc Project/Site: Community Within the Corridor - 40441

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
500-242632-1	EB-MW-2	Water	11/14/23 10:45	11/16/23 10:10	
500-242632-2	EB-MW-4R	Water	11/14/23 11:30	11/16/23 10:10	
500-242632-3	EB-MW-6	Water	11/14/23 12:00	11/16/23 10:10	
500-242632-4	EB-MW-5	Water	11/14/23 13:30	11/16/23 10:10	
500-242632-5	DUP-1	Water	11/14/23 00:00	11/16/23 10:10	
500-242632-6	Trip Blank	Water	11/14/23 00:00	11/16/23 10:10	

Job ID: 500-242632-1

Client: K. Singh & Associates, Inc Job ID: 500-242632-1

Project/Site: Community Within the Corridor - 40441

Client Sample ID: EB-MW-2

Lab Sample ID: 500-242632-1

**Matrix: Water** 

Date Collected: 11/14/23 10:45 Date Received: 11/16/23 10:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	6.8		0.50	0.15	ug/L			11/21/23 13:27	
Bromobenzene	<0.36		1.0	0.36	ug/L			11/21/23 13:27	1
Bromochloromethane	< 0.43		1.0	0.43	ug/L			11/21/23 13:27	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/21/23 13:27	1
Bromoform	<0.48		1.0		ug/L			11/21/23 13:27	1
Bromomethane	<0.80		3.0		ug/L			11/21/23 13:27	1
Carbon tetrachloride	<0.38		1.0		ug/L			11/21/23 13:27	1
Chlorobenzene	< 0.39		1.0		ug/L			11/21/23 13:27	1
Chloroethane	7.6		5.0	0.51	ug/L			11/21/23 13:27	
Chloroform	<0.37		2.0		ug/L			11/21/23 13:27	1
Chloromethane	<0.32		5.0	0.32				11/21/23 13:27	1
2-Chlorotoluene	<0.31		1.0		ug/L			11/21/23 13:27	1
4-Chlorotoluene	<0.35		1.0		ug/L			11/21/23 13:27	,
cis-1,2-Dichloroethene	5.4		1.0	0.41	-			11/21/23 13:27	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	-			11/21/23 13:27	
Dibromochloromethane	<0.49		1.0		ug/L			11/21/23 13:27	,
1,2-Dibromo-3-Chloropropane	<2.0		5.0		ug/L			11/21/23 13:27	
1,2-Dibromoethane	<0.39		1.0		ug/L			11/21/23 13:27	
Dibromomethane	<0.27		1.0		ug/L			11/21/23 13:27	
1,2-Dichlorobenzene	<0.33		1.0		ug/L			11/21/23 13:27	
1,3-Dichlorobenzene	<0.40		1.0		ug/L			11/21/23 13:27	
1,4-Dichlorobenzene	<0.36		1.0		ug/L			11/21/23 13:27	,
Dichlorodifluoromethane	<0.67		3.0		ug/L			11/21/23 13:27	
1,1-Dichloroethane	21		1.0	0.41	-			11/21/23 13:27	1
1,2-Dichloroethane	<0.39		1.0		ug/L			11/21/23 13:27	1
1,1-Dichloroethene	<0.39	*+	1.0		ug/L			11/21/23 13:27	
1,2-Dichloropropane	<0.43		1.0		ug/L			11/21/23 13:27	
1,3-Dichloropropane	<0.36		1.0		ug/L			11/21/23 13:27	,
2,2-Dichloropropane	<0.44		5.0		ug/L			11/21/23 13:27	
1,1-Dichloropropene	<0.30		1.0		ug/L			11/21/23 13:27	
Ethylbenzene	17		0.50		ug/L			11/21/23 13:27	
Hexachlorobutadiene	<0.45		1.0		ug/L			11/21/23 13:27	
Isopropylbenzene	6.6		1.0		ug/L			11/21/23 13:27	
Isopropyl ether	<0.28		1.0		ug/L			11/21/23 13:27	,
Methylene Chloride	2.8	.1	5.0		ug/L			11/21/23 13:27	
Methyl tert-butyl ether	<0.39		1.0		ug/L			11/21/23 13:27	
Naphthalene	4.7		1.0		ug/L			11/21/23 13:27	
n-Butylbenzene	13		1.0		ug/L			11/21/23 13:27	,
N-Propylbenzene	10		1.0		ug/L			11/21/23 13:27	,
p-Isopropyltoluene	4.4		1.0		ug/L			11/21/23 13:27	
sec-Butylbenzene	8.2		1.0		ug/L			11/21/23 13:27	,
Styrene	<0.39		1.0		ug/L			11/21/23 13:27	,
tert-Butylbenzene	<0.40		1.0		ug/L			11/21/23 13:27	,
1,1,1,2-Tetrachloroethane	<0.46		1.0		ug/L ug/L			11/21/23 13:27	,
1,1,2,2-Tetrachloroethane	<0.40		1.0		ug/L ug/L			11/21/23 13:27	,
Tetrachloroethene	<0.40	* <u>+</u>			ug/L ug/L			11/21/23 13:27	
			1.0 0.50						1
Toluene trans 1.2 Dichloroothono	0.92				ug/L			11/21/23 13:27	1
trans-1,2-Dichloroethene trans-1,3-Dichloropropene	<0.35 <0.36	т	1.0	0.36	ug/L			11/21/23 13:27 11/21/23 13:27	1 

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor - 40441

Client Sample ID: EB-MW-2

Date Collected: 11/14/23 10:45 Date Received: 11/16/23 10:10

Lab S	Sample	ID: 50	00-242	632-1
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**Matrix: Water** 

Job ID: 500-242632-1

Method: SW846 8260B - Vo	latile Organic	Compoun	ds (GC/MS) (	Continu	ed)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/21/23 13:27	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/21/23 13:27	1
1,1,1-Trichloroethane	3.2		1.0	0.38	ug/L			11/21/23 13:27	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/21/23 13:27	1
Trichloroethene	11		0.50	0.16	ug/L			11/21/23 13:27	1
Trichlorofluoromethane	<0.43	*+	1.0	0.43	ug/L			11/21/23 13:27	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/21/23 13:27	1
1,2,4-Trimethylbenzene	52		1.0	0.36	ug/L			11/21/23 13:27	1
1,3,5-Trimethylbenzene	13		1.0	0.25	ug/L			11/21/23 13:27	1
Vinyl chloride	<0.20	*+	1.0	0.20	ug/L			11/21/23 13:27	1
Xylenes, Total	20		1.0	0.22	ug/L			11/21/23 13:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		72 - 124			-		11/21/23 13:27	1
Dibromofluoromethane (Surr)	106		75 - 120					11/21/23 13:27	1
1,2-Dichloroethane-d4 (Surr)	93		75 - 126					11/21/23 13:27	1
Toluene-d8 (Surr)	94		75 - 120					11/21/23 13:27	1

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.25	0.79	0.25	ug/L		11/20/23 07:57	11/21/23 15:33	1
Acenaphthylene	<0.21	0.79	0.21	ug/L		11/20/23 07:57	11/21/23 15:33	1
Anthracene	<0.26	0.79	0.26	ug/L		11/20/23 07:57	11/21/23 15:33	1
Benzo[a]anthracene	<0.045	0.16	0.045	ug/L		11/20/23 07:57	11/21/23 15:33	1
Benzo[a]pyrene	<0.078	0.16	0.078	ug/L		11/20/23 07:57	11/21/23 15:33	1
Benzo[b]fluoranthene	<0.064	0.16	0.064	ug/L		11/20/23 07:57	11/21/23 15:33	1
Benzo[g,h,i]perylene	<0.30	0.79	0.30	ug/L		11/20/23 07:57	11/21/23 15:33	1
Benzo[k]fluoranthene	<0.051	0.16	0.051	ug/L		11/20/23 07:57	11/21/23 15:33	1
Chrysene	<0.054	0.16	0.054	ug/L		11/20/23 07:57	11/21/23 15:33	1
Dibenz(a,h)anthracene	<0.040	0.24	0.040	ug/L		11/20/23 07:57	11/21/23 15:33	1
Fluoranthene	<0.36	0.79	0.36	ug/L		11/20/23 07:57	11/21/23 15:33	1
Fluorene	<0.19	0.79	0.19	ug/L		11/20/23 07:57	11/21/23 15:33	1
Indeno[1,2,3-cd]pyrene	<0.059	0.16	0.059	ug/L		11/20/23 07:57	11/21/23 15:33	1
1-Methylnaphthalene	1.0 J	1.6	0.24	ug/L		11/20/23 07:57	11/21/23 15:33	1
2-Methylnaphthalene	0.26 J	1.6	0.052	ug/L		11/20/23 07:57	11/21/23 15:33	1
Naphthalene	4.0	0.79	0.25	ug/L		11/20/23 07:57	11/21/23 15:33	1
Phenanthrene	<0.24	0.79	0.24	ug/L		11/20/23 07:57	11/21/23 15:33	1
Pyrene	<0.34	0.79	0.34	ug/L		11/20/23 07:57	11/21/23 15:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	88		34 - 110	11/20/23 07:57	11/21/23 15:33	1
Nitrobenzene-d5 (Surr)	89		36 - 120	11/20/23 07:57	11/21/23 15:33	1
Terphenyl-d14 (Surr)	99		40 - 145	11/20/23 07:57	11/21/23 15:33	1

Method: SW846 8082A - Pol	ychlorinated Biphen	yls (PCBs) b	y Gas Chromatography

Analyte	esult Qualifier	ŔĽ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18	0.50	0.18	ug/L		11/22/23 06:59	11/27/23 05:52	1
PCB-1221	<0.18	0.50	0.18	ug/L		11/22/23 06:59	11/27/23 05:52	1
PCB-1232	<0.18	0.50	0.18	ug/L		11/22/23 06:59	11/27/23 05:52	1
PCB-1242	<0.18	0.50	0.18	ug/L		11/22/23 06:59	11/27/23 05:52	1

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor - 40441

Client Sample ID: EB-MW-2 Lab Sample ID: 500-242632-1

Date Collected: 11/14/23 10:45
Date Received: 11/16/23 10:10

Oumpic	ю.	000 E-E00E 1
		Matrix: Water

Job ID: 500-242632-1

Method: SW846 8082A - I	Polychlorinated	<b>Biphenyls</b>	(PCBs) by G	as Chro	matogra	aphy (	Continued)		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	0.31	J	0.50	0.18	ug/L		11/22/23 06:59	11/27/23 05:52	1
PCB-1254	<0.25		0.50	0.25	ug/L		11/22/23 06:59	11/27/23 05:52	1
PCB-1260	<0.25		0.50	0.25	ug/L		11/22/23 06:59	11/27/23 05:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	51		39 - 121				11/22/23 06:59	11/27/23 05:52	1
DCB Decachlorobiphenyl	25		19 - 120				11/22/23 06:59	11/27/23 05:52	1
_ Method: SW846 6020A - I	Metals (ICP/MS)	- Dissolved	ď						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.92	J	1.0	0.23	ug/L		12/01/23 09:38	12/07/23 20:26	1
Barium	130		2.5	0.73	ug/L		12/01/23 09:38	12/07/23 20:26	1
Cadmium	<0.17		0.50	0.17	ug/L		12/01/23 09:38	12/07/23 20:26	1
Chromium	<1.1		5.0	1.1	ug/L		12/01/23 09:38	12/07/23 20:26	1
Lead	0.47	JB	0.50	0.19	ug/L		12/01/23 09:38	12/07/23 20:26	1
Selenium	<0.98		2.5	0.98	ug/L		12/01/23 09:38	12/07/23 20:26	1
Silver	<0.12		0.50	0.12	ug/L		12/01/23 09:38	12/07/23 20:26	1
- Method: SW846 7470A - I	Mercury (CVAA)	- Dissolve	d						
Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.079		0.20	0.079	ug/L		12/01/23 10:05	12/04/23 07:33	

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Client: K. Singh & Associates, Inc Job ID: 500-242632-1

Project/Site: Community Within the Corridor - 40441

Client Sample ID: EB-MW-4R

Lab Sample ID: 500-242632-2 Date Collected: 11/14/23 11:30

**Matrix: Water** 

Date Received: 11/16/23 10:10

0.45							
<0.15	0.50	0.15	ug/L			11/21/23 13:52	1
<0.36	1.0	0.36	ug/L			11/21/23 13:52	1
<0.43	1.0	0.43	ug/L			11/21/23 13:52	1
<0.37	1.0	0.37	ug/L			11/21/23 13:52	1
<0.48	1.0	0.48	ug/L			11/21/23 13:52	1
<0.80	3.0	0.80	ug/L			11/21/23 13:52	1
<0.38	1.0	0.38	ug/L			11/21/23 13:52	1
<0.39	1.0	0.39	ug/L			11/21/23 13:52	1
<0.51	5.0	0.51	ug/L			11/21/23 13:52	1
<0.37	2.0	0.37	ug/L			11/21/23 13:52	1
<0.32	5.0	0.32	ug/L			11/21/23 13:52	1
<0.31	1.0		-			11/21/23 13:52	1
<0.35	1.0					11/21/23 13:52	1
<0.41	1.0		_			11/21/23 13:52	1
<0.42	1.0		_			11/21/23 13:52	1
<0.49						11/21/23 13:52	1
			-				1
			-			11/21/23 13:52	1
						11/21/23 13:52	1
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	<0.43 <0.37 <0.48 <0.80 <0.38 <0.39 <0.51 <0.37 <0.32 <0.31 <0.35 <0.41	<0.43	<0.43	<0.43	<0.43	CO.43	<0.43

Project/Site: Community Within the Corridor - 40441

Client Sample ID: EB-MW-4R

Date Collected: 11/14/23 11:30 Date Received: 11/16/23 10:10

Terphenyl-d14 (Surr)

Lab Sample ID: 500-242632-2

**Matrix: Water** 

Job ID: 500-242632-1

Method: SW846 8260B - Vo Analyte	_	Qualifier	` RL´		Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/21/23 13:52	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/21/23 13:52	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/21/23 13:52	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/21/23 13:52	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/21/23 13:52	1
Trichlorofluoromethane	<0.43	*+	1.0	0.43	ug/L			11/21/23 13:52	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/21/23 13:52	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/21/23 13:52	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/21/23 13:52	1
Vinyl chloride	<0.20	*+	1.0	0.20	ug/L			11/21/23 13:52	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/21/23 13:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		72 - 124					11/21/23 13:52	1
Dibromofluoromethane (Surr)	107		75 - 120					11/21/23 13:52	1
1,2-Dichloroethane-d4 (Surr)	92		75 - 126					11/21/23 13:52	1
Toluene-d8 (Surr)	95		75 - 120					11/21/23 13:52	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<24		79	24	ug/L		11/20/23 07:57	11/29/23 21:41	100
Acenaphthylene	<21		79	21	ug/L		11/20/23 07:57	11/29/23 21:41	100
Anthracene	<26		79	26	ug/L		11/20/23 07:57	11/29/23 21:41	100
Benzo[a]anthracene	<4.5		16	4.5	ug/L		11/20/23 07:57	11/29/23 21:41	100
Benzo[a]pyrene	<7.8		16	7.8	ug/L		11/20/23 07:57	11/29/23 21:41	100
Benzo[b]fluoranthene	<6.4		16	6.4	ug/L		11/20/23 07:57	11/29/23 21:41	100
Benzo[g,h,i]perylene	<30		79	30	ug/L		11/20/23 07:57	11/29/23 21:41	100
Benzo[k]fluoranthene	<5.1		16	5.1	ug/L		11/20/23 07:57	11/29/23 21:41	100
Chrysene	<5.4		16	5.4	ug/L		11/20/23 07:57	11/29/23 21:41	100
Dibenz(a,h)anthracene	<4.0		24	4.0	ug/L		11/20/23 07:57	11/29/23 21:41	100
Fluoranthene	<36		79	36	ug/L		11/20/23 07:57	11/29/23 21:41	100
Fluorene	<19		79	19	ug/L		11/20/23 07:57	11/29/23 21:41	100
Indeno[1,2,3-cd]pyrene	<5.9		16	5.9	ug/L		11/20/23 07:57	11/29/23 21:41	100
1-Methylnaphthalene	<24		160	24	ug/L		11/20/23 07:57	11/29/23 21:41	100
2-Methylnaphthalene	<5.2		160	5.2	ug/L		11/20/23 07:57	11/29/23 21:41	100
Naphthalene	<24		79	24	ug/L		11/20/23 07:57	11/29/23 21:41	100
Phenanthrene	<24		79	24	ug/L		11/20/23 07:57	11/29/23 21:41	100
Pyrene	<34		79	34	ug/L		11/20/23 07:57	11/29/23 21:41	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	0	S1-	34 - 110				11/20/23 07:57	11/29/23 21:41	100
Nitrobenzene-d5 (Surr)	0	S1-	36 - 120				11/20/23 07:57	11/29/23 21:41	100

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography										
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
PCB-1016	<3.5	10	3.5	ug/L		11/22/23 06:59	11/27/23 16:24	20		
PCB-1221	<3.5	10	3.5	ug/L		11/22/23 06:59	11/27/23 16:24	20		
PCB-1232	<3.5	10	3.5	ug/L		11/22/23 06:59	11/27/23 16:24	20		
PCB-1242	<3.5	10	3.5	ug/L		11/22/23 06:59	11/27/23 16:24	20		

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11/20/23 07:57 11/29/23 21:41

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor - 40441

Client Sample ID: EB-MW-4R Lab Sample ID: 500-242632-2 **Matrix: Water** 

Date Collected: 11/14/23 11:30 Date Received: 11/16/23 10:10

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)										
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
PCB-1248	<3.5	10	3.5	ug/L		11/22/23 06:59	11/27/23 16:24	20		
PCB-1254	<5.0	10	5.0	ug/L		11/22/23 06:59	11/27/23 16:24	20		
PCB-1260	56	10	5.0	ug/L		11/22/23 06:59	11/27/23 16:24	20		

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	42		39 - 121	11/22/23 06:59	11/27/23 16:24	20
DCB Decachlorobiphenyl	42		19 - 120	11/22/23 06:59	11/27/23 16:24	20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.34	J	1.0	0.23	ug/L		12/01/23 09:38	12/07/23 20:30	1
Barium	<b>68</b>		2.5	0.73	ug/L		12/01/23 09:38	12/07/23 20:30	1
Cadmium	0.20	J	0.50	0.17	ug/L		12/01/23 09:38	12/07/23 20:30	1
Chromium	<1.1		5.0	1.1	ug/L		12/01/23 09:38	12/07/23 20:30	1
Lead	0.62	В	0.50	0.19	ug/L		12/01/23 09:38	12/07/23 20:30	1
Selenium	<0.98		2.5	0.98	ug/L		12/01/23 09:38	12/07/23 20:30	1
Silver	<0.12		0.50	0.12	ug/L		12/01/23 09:38	12/07/23 20:30	1

Method: SW846 7470A - Mercu	ıry (CVAA)	- Dissolved							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.079		0.20	0.079	ug/L		12/01/23 10:05	12/04/23 07:35	1

Job ID: 500-242632-1

Client: K. Singh & Associates, Inc Job ID: 500-242632-1

Project/Site: Community Within the Corridor - 40441

Client Sample ID: EB-MW-6

Lab Sample ID: 500-242632-3 Date Collected: 11/14/23 12:00

**Matrix: Water** 

Date Received: 11/16/23 10:10

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15	0.50	0.15	ug/L			11/21/23 14:17	1
Bromobenzene	<0.36	1.0	0.36	ug/L			11/21/23 14:17	1
Bromochloromethane	<0.43	1.0	0.43	ug/L			11/21/23 14:17	1
Bromodichloromethane	<0.37	1.0	0.37	ug/L			11/21/23 14:17	1
Bromoform	<0.48	1.0	0.48	ug/L			11/21/23 14:17	1
Bromomethane	<0.80	3.0	0.80	ug/L			11/21/23 14:17	1
Carbon tetrachloride	<0.38	1.0	0.38	ug/L			11/21/23 14:17	1
Chlorobenzene	<0.39	1.0	0.39	ug/L			11/21/23 14:17	1
Chloroethane	<0.51	5.0	0.51	ug/L			11/21/23 14:17	1
Chloroform	<0.37	2.0	0.37	ug/L			11/21/23 14:17	1
Chloromethane	<0.32	5.0	0.32	ug/L			11/21/23 14:17	1
2-Chlorotoluene	<0.31	1.0	0.31	ug/L			11/21/23 14:17	1
4-Chlorotoluene	<0.35	1.0	0.35	ug/L			11/21/23 14:17	1
cis-1,2-Dichloroethene	<0.41	1.0		ug/L			11/21/23 14:17	1
cis-1,3-Dichloropropene	<0.42	1.0		ug/L			11/21/23 14:17	1
Dibromochloromethane	<0.49	1.0		ug/L			11/21/23 14:17	1
1,2-Dibromo-3-Chloropropane	<2.0	5.0		ug/L			11/21/23 14:17	1
1,2-Dibromoethane	<0.39	1.0		ug/L			11/21/23 14:17	1
Dibromomethane	<0.27	1.0		ug/L			11/21/23 14:17	1
1.2-Dichlorobenzene	<0.33	1.0		ug/L			11/21/23 14:17	1
1,3-Dichlorobenzene	<0.40	1.0		ug/L			11/21/23 14:17	1
1,4-Dichlorobenzene	<0.36	1.0		ug/L			11/21/23 14:17	1
Dichlorodifluoromethane	<0.67	3.0		ug/L			11/21/23 14:17	1
1,1-Dichloroethane	<0.41	1.0		ug/L			11/21/23 14:17	1
1,2-Dichloroethane	<0.39	1.0		ug/L			11/21/23 14:17	1
1,1-Dichloroethene	<0.39 *+	1.0		ug/L			11/21/23 14:17	1
1,2-Dichloropropane	<0.43	1.0		ug/L			11/21/23 14:17	1
1,3-Dichloropropane	<0.36	1.0		ug/L			11/21/23 14:17	1
2,2-Dichloropropane	<0.44	5.0		ug/L			11/21/23 14:17	
1,1-Dichloropropene	<0.30	1.0		ug/L			11/21/23 14:17	1
Ethylbenzene	<0.18	0.50		ug/L			11/21/23 14:17	
Hexachlorobutadiene	<0.45	1.0		ug/L			11/21/23 14:17	1
Isopropylbenzene	<0.39	1.0		ug/L			11/21/23 14:17	1
Isopropyl ether	<0.28	1.0		ug/L			11/21/23 14:17	
Methylene Chloride	2.2 J	5.0		ug/L			11/21/23 14:17	1
Methyl tert-butyl ether	<0.39	1.0	0.39	_			11/21/23 14:17	
Naphthalene	<0.34	1.0		ug/L			11/21/23 14:17	1
n-Butylbenzene	<0.39	1.0		ug/L			11/21/23 14:17	1
N-Propylbenzene	<0.41	1.0		ug/L			11/21/23 14:17	1
p-Isopropyltoluene	<0.36	1.0		ug/L			11/21/23 14:17	· · · · · · · · · · · · · · · · · · ·
sec-Butylbenzene	<0.40	1.0		ug/L			11/21/23 14:17	1
Styrene	<0.39	1.0		ug/L			11/21/23 14:17	1
tert-Butylbenzene	<0.40	1.0		ug/L ug/L			11/21/23 14:17	
1,1,1,2-Tetrachloroethane	<0.46	1.0		ug/L ug/L			11/21/23 14:17	1
1,1,2,2-Tetrachloroethane	<0.40	1.0		ug/L ug/L			11/21/23 14:17	1
Tetrachloroethene	<0.37 *+							
		1.0 0.50		ug/L			11/21/23 14:17 11/21/23 14:17	1
Toluene	<0.15			ug/L				1
trans-1,2-Dichloroethene	<0.35 *+	1.0	0.35	ug/L			11/21/23 14:17	1

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Project/Site: Community Within the Corridor - 40441

Client Sample ID: EB-MW-6

Lab Sample ID: 500-242632-3

**Matrix: Water** 

Date Collected: 11/14/23 12:00 Date Received: 11/16/23 10:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/21/23 14:17	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/21/23 14:17	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/21/23 14:17	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/21/23 14:17	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/21/23 14:17	1
Trichlorofluoromethane	<0.43	*+	1.0	0.43	ug/L			11/21/23 14:17	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/21/23 14:17	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/21/23 14:17	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/21/23 14:17	1
Vinyl chloride	<0.20	*+	1.0	0.20	ug/L			11/21/23 14:17	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/21/23 14:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		72 - 124			-		11/21/23 14:17	1
Dibromofluoromethane (Surr)	102		75 - 120					11/21/23 14:17	1
1,2-Dichloroethane-d4 (Surr)	97		75 - 126					11/21/23 14:17	1
Toluene-d8 (Surr)	100		75 - 120					11/21/23 14:17	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.25		0.81	0.25	ug/L		11/20/23 07:57	11/21/23 15:58	1
Acenaphthylene	<0.22		0.81	0.22	ug/L		11/20/23 07:57	11/21/23 15:58	1
Anthracene	<0.27		0.81	0.27	ug/L		11/20/23 07:57	11/21/23 15:58	1
Benzo[a]anthracene	0.24		0.16	0.046	ug/L		11/20/23 07:57	11/21/23 15:58	1
Benzo[a]pyrene	0.22		0.16	0.080	ug/L		11/20/23 07:57	11/21/23 15:58	1
Benzo[b]fluoranthene	0.27		0.16	0.065	ug/L		11/20/23 07:57	11/21/23 15:58	1
Benzo[g,h,i]perylene	<0.30		0.81	0.30	ug/L		11/20/23 07:57	11/21/23 15:58	1
Benzo[k]fluoranthene	0.10	J	0.16	0.052	ug/L		11/20/23 07:57	11/21/23 15:58	1
Chrysene	0.23		0.16	0.055	ug/L		11/20/23 07:57	11/21/23 15:58	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		11/20/23 07:57	11/21/23 15:58	1
Fluoranthene	<0.37		0.81	0.37	ug/L		11/20/23 07:57	11/21/23 15:58	1
Fluorene	<0.20		0.81	0.20	ug/L		11/20/23 07:57	11/21/23 15:58	1
Indeno[1,2,3-cd]pyrene	0.20		0.16	0.060	ug/L		11/20/23 07:57	11/21/23 15:58	1
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		11/20/23 07:57	11/21/23 15:58	1
2-Methylnaphthalene	0.11	J	1.6	0.053	ug/L		11/20/23 07:57	11/21/23 15:58	1
Naphthalene	<0.25		0.81	0.25	ug/L		11/20/23 07:57	11/21/23 15:58	1
Phenanthrene	0.24	J	0.81	0.24	ug/L		11/20/23 07:57	11/21/23 15:58	1
Pyrene	<0.34		0.81	0.34	ug/L		11/20/23 07:57	11/21/23 15:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	2-Fluorobiphenyl (Surr)	82		34 - 110	11/20/23 07:57	11/21/23 15:58	1
	Nitrobenzene-d5 (Surr)	89		36 - 120	11/20/23 07:57	11/21/23 15:58	1
l	Terphenyl-d14 (Surr)	77		40 - 145	11/20/23 07:57	11/21/23 15:58	1

Analyte	A - Polychlorinated E Result	Qualifier	RL	MDL	_	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.50	0.18	ug/L		11/22/23 06:59	11/28/23 21:41	1
PCB-1221	<0.18		0.50	0.18	ug/L		11/22/23 06:59	11/28/23 21:41	1
PCB-1232	<0.18		0.50	0.18	ug/L		11/22/23 06:59	11/28/23 21:41	1
PCB-1242	<0.18		0.50	0.18	ug/L		11/22/23 06:59	11/28/23 21:41	1

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor - 40441

Client Sample ID: EB-MW-6 Lab Sample ID: 500-242632-3

Matrix: Water

Job ID: 500-242632-1

Date Collected: 11/14/23 12:00 Date Received: 11/16/23 10:10

Method: SW846 8082A - F	Polychlorinated	<b>Biphenyls</b>	(PCBs) by	Gas Chro	matogra	aphy (	Continued)		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.18		0.50	0.18	ug/L		11/22/23 06:59	11/28/23 21:41	1
PCB-1254	<0.25		0.50	0.25	ug/L		11/22/23 06:59	11/28/23 21:41	1
PCB-1260	<0.25		0.50	0.25	ug/L		11/22/23 06:59	11/28/23 21:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	53		39 - 121				11/22/23 06:59	11/28/23 21:41	1
DCB Decachlorobiphenyl	40		19 - 120				11/22/23 06:59	11/28/23 21:41	1
Arsenic	0.68	J	1.0	0.23	ug/L		12/01/23 09:38	12/07/23 20:34	1
Method: SW846 6020A - I Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
					•				1
Barium	15		2.5		ug/L		12/01/23 09:38		1
Cadmium	0.28	J	0.50	0.17	ug/L		12/01/23 09:38	12/07/23 20:34	1
Chromium	<1.1		5.0	1.1	ug/L		12/01/23 09:38	12/07/23 20:34	1
Lead	1.1	В	0.50	0.19	ug/L		12/01/23 09:38	12/07/23 20:34	1
Selenium	<0.98		2.5	0.98	ug/L		12/01/23 09:38	12/07/23 20:34	1
Silver	<0.12		0.50	0.12	ug/L		12/01/23 09:38	12/07/23 20:34	1
- Method: SW846 7470A - I	Mercury (CVAA)	- Dissolve	d						
Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.079		0.20	0.079	ug/L		12/01/23 10:05	12/04/23 07:37	1

Client: K. Singh & Associates, Inc Job ID: 500-242632-1

Project/Site: Community Within the Corridor - 40441

Client Sample ID: EB-MW-5

Lab Sample ID: 500-242632-4

**Matrix: Water** 

Date Collected: 11/14/23 13:30 Date Received: 11/16/23 10:10

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.15	0.50	0.15	ug/L		-	11/21/23 14:42	
Bromobenzene	<0.36	1.0	0.36	ug/L			11/21/23 14:42	
Bromochloromethane	< 0.43	1.0	0.43	ug/L			11/21/23 14:42	
Bromodichloromethane	<0.37	1.0	0.37	ug/L			11/21/23 14:42	
Bromoform	<0.48	1.0		ug/L			11/21/23 14:42	
Bromomethane	<0.80	3.0		ug/L			11/21/23 14:42	
Carbon tetrachloride	<0.38	1.0		ug/L			11/21/23 14:42	
Chlorobenzene	<0.39	1.0		ug/L			11/21/23 14:42	
Chloroethane	<0.51	5.0		ug/L			11/21/23 14:42	
Chloroform	<0.37	2.0		ug/L			11/21/23 14:42	
Chloromethane	<0.32	5.0		ug/L			11/21/23 14:42	
2-Chlorotoluene	<0.31	1.0		ug/L			11/21/23 14:42	
4-Chlorotoluene	<0.35	1.0		ug/L			11/21/23 14:42	
cis-1,2-Dichloroethene	<0.41	1.0		ug/L			11/21/23 14:42	
cis-1,3-Dichloropropene	<0.42	1.0		ug/L			11/21/23 14:42	
Dibromochloromethane	<0.49	1.0		ug/L			11/21/23 14:42	· · · · · · .
1,2-Dibromo-3-Chloropropane	<2.0	5.0		ug/L			11/21/23 14:42	
1,2-Dibromoethane	<0.39	1.0		ug/L			11/21/23 14:42	
Dibromomethane	<0.27	1.0		ug/L			11/21/23 14:42	
1,2-Dichlorobenzene	<0.33	1.0		ug/L			11/21/23 14:42	
1,3-Dichlorobenzene	<0.40	1.0		ug/L			11/21/23 14:42	
1,4-Dichlorobenzene	<0.36	1.0		ug/L			11/21/23 14:42	
Dichlorodifluoromethane	<0.67	3.0		ug/L ug/L			11/21/23 14:42	
1,1-Dichloroethane	<0.41	1.0		-			11/21/23 14:42	
1,2-Dichloroethane	<0.39	1.0		ug/L ug/L			11/21/23 14:42	
	<0.39 *+			-				
1,1-Dichloroethene	<0.43	1.0 1.0		ug/L			11/21/23 14:42	
1,2-Dichloropropane				ug/L			11/21/23 14:42	
1,3-Dichloropropane	< 0.36	1.0 5.0		ug/L			11/21/23 14:42	•
2,2-Dichloropropane	<0.44 <0.30	1.0		ug/L			11/21/23 14:42	
1,1-Dichloropropene				ug/L			11/21/23 14:42	
Ethylbenzene	<0.18	0.50		ug/L			11/21/23 14:42	•
Hexachlorobutadiene	<0.45	1.0		ug/L			11/21/23 14:42	•
Isopropylbenzene	<0.39	1.0		ug/L			11/21/23 14:42	
Isopropyl ether	<0.28	1.0		ug/L			11/21/23 14:42	•
Methylene Chloride	1.9 J	5.0		ug/L			11/21/23 14:42	•
Methyl tert-butyl ether	<0.39	1.0		ug/L			11/21/23 14:42	
Naphthalene	<0.34	1.0		ug/L			11/21/23 14:42	•
n-Butylbenzene	<0.39	1.0		ug/L			11/21/23 14:42	•
N-Propylbenzene	<0.41	1.0		ug/L			11/21/23 14:42	
p-Isopropyltoluene	<0.36	1.0		ug/L			11/21/23 14:42	•
sec-Butylbenzene	<0.40	1.0		ug/L			11/21/23 14:42	
Styrene	<0.39	1.0		ug/L			11/21/23 14:42	
tert-Butylbenzene	<0.40	1.0		ug/L			11/21/23 14:42	•
1,1,1,2-Tetrachloroethane	<0.46	1.0		ug/L			11/21/23 14:42	•
1,1,2,2-Tetrachloroethane	<0.40	1.0	0.40	ug/L			11/21/23 14:42	
Tetrachloroethene	<0.37 *+	1.0	0.37	ug/L			11/21/23 14:42	
Toluene	<0.15	0.50	0.15	ug/L			11/21/23 14:42	
trans-1,2-Dichloroethene	<0.35 *+	1.0	0.35	ug/L			11/21/23 14:42	
trans-1,3-Dichloropropene	<0.36	1.0	0.36	ug/L			11/21/23 14:42	

Lab Sample ID: 500-242632-4

Matrice Matrice Mater

Job ID: 500-242632-1

Matrix: Water

Client Sample ID: EB-MW-5

Date Collected: 11/14/23 13:30 Date Received: 11/16/23 10:10

Terphenyl-d14 (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/21/23 14:42	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/21/23 14:42	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/21/23 14:42	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/21/23 14:42	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/21/23 14:42	1
Trichlorofluoromethane	<0.43	*+	1.0	0.43	ug/L			11/21/23 14:42	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/21/23 14:42	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/21/23 14:42	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/21/23 14:42	1
Vinyl chloride	<0.20	*+	1.0	0.20	ug/L			11/21/23 14:42	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/21/23 14:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		72 - 124					11/21/23 14:42	1
Dibromofluoromethane (Surr)	105		75 - 120					11/21/23 14:42	1
1,2-Dichloroethane-d4 (Surr)	98		75 - 126					11/21/23 14:42	1
Toluene-d8 (Surr)	104		75 - 120					11/21/23 14:42	1

Analyte	Result (	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.26		0.83	0.26	ug/L		11/20/23 07:57	11/21/23 16:23	1
Acenaphthylene	<0.22		0.83	0.22	ug/L		11/20/23 07:57	11/21/23 16:23	1
Anthracene	<0.28		0.83	0.28	ug/L		11/20/23 07:57	11/21/23 16:23	1
Benzo[a]anthracene	<0.047		0.17	0.047	ug/L		11/20/23 07:57	11/21/23 16:23	1
Benzo[a]pyrene	<0.082		0.17	0.082	ug/L		11/20/23 07:57	11/21/23 16:23	1
Benzo[b]fluoranthene	< 0.067		0.17	0.067	ug/L		11/20/23 07:57	11/21/23 16:23	1
Benzo[g,h,i]perylene	<0.31		0.83	0.31	ug/L		11/20/23 07:57	11/21/23 16:23	1
Benzo[k]fluoranthene	<0.053		0.17	0.053	ug/L		11/20/23 07:57	11/21/23 16:23	1
Chrysene	< 0.057		0.17	0.057	ug/L		11/20/23 07:57	11/21/23 16:23	1
Dibenz(a,h)anthracene	<0.042		0.25	0.042	ug/L		11/20/23 07:57	11/21/23 16:23	1
Fluoranthene	<0.38		0.83	0.38	ug/L		11/20/23 07:57	11/21/23 16:23	1
Fluorene	<0.20		0.83	0.20	ug/L		11/20/23 07:57	11/21/23 16:23	1
Indeno[1,2,3-cd]pyrene	<0.062		0.17	0.062	ug/L		11/20/23 07:57	11/21/23 16:23	1
1-Methylnaphthalene	<0.25		1.7	0.25	ug/L		11/20/23 07:57	11/21/23 16:23	1
2-Methylnaphthalene	< 0.054		1.7	0.054	ug/L		11/20/23 07:57	11/21/23 16:23	1
Naphthalene	<0.26		0.83	0.26	ug/L		11/20/23 07:57	11/21/23 16:23	1
Phenanthrene	<0.25		0.83	0.25	ug/L		11/20/23 07:57	11/21/23 16:23	1
Pyrene	<0.35		0.83	0.35	ug/L		11/20/23 07:57	11/21/23 16:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	77		34 - 110				11/20/23 07:57	11/21/23 16:23	1
Nitrobenzene-d5 (Surr)	84		36 - 120				11/20/23 07:57	11/21/23 16:23	1

Method: SW846 8082A -	Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography									
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
PCB-1016	<0.18	0.52	0.18	ug/L		11/22/23 06:59	11/28/23 21:59	1		
PCB-1221	<0.18	0.52	0.18	ug/L		11/22/23 06:59	11/28/23 21:59	1		
PCB-1232	<0.18	0.52	0.18	ug/L		11/22/23 06:59	11/28/23 21:59	1		
PCB-1242	<0.18	0.52	0.18	ug/L		11/22/23 06:59	11/28/23 21:59	1		

40 - 145

**Eurofins Chicago** 

11/20/23 07:57 11/21/23 16:23

Client: K. Singh & Associates, Inc

Mercury

Project/Site: Community Within the Corridor - 40441

Client Sample ID: EB-MW-5

Date Collected: 11/14/23 13:30

Lab Sample ID: 500-242632-4

Matrix: Water

Date Collected: 11/14/23 13:30
Date Received: 11/16/23 10:10

<0.079

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.18		0.52	0.18	ug/L		11/22/23 06:59	11/28/23 21:59	1
PCB-1254	<0.26		0.52	0.26	ug/L		11/22/23 06:59	11/28/23 21:59	1
PCB-1260	<0.26		0.52	0.26	ug/L		11/22/23 06:59	11/28/23 21:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	62		39 - 121				11/22/23 06:59	11/28/23 21:59	1
DCB Decachlorobiphenyl	36		19 - 120				11/22/23 06:59	11/28/23 21:59	1
Method: SW846 6020A - I	•			MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mothod: SW846 6020A - I	Motale (ICD/MS)	- Diecolyor	4						
Analyte	Result	Qualifier	RL		Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Arsenic	Result 0.56	Qualifier		0.23	ug/L	<u>D</u>	12/01/23 09:38	12/07/23 20:38	Dil Fac
Analyte Arsenic Barium	Result 0.56 45	Qualifier	RL 1.0 2.5	0.23 0.73	ug/L ug/L	<u>D</u>	12/01/23 09:38 12/01/23 09:38	12/07/23 20:38 12/07/23 20:38	Dil Fac
Analyte Arsenic	Result 0.56	Qualifier		0.23 0.73	ug/L	<u>D</u>	12/01/23 09:38	12/07/23 20:38	Dil Fac 1 1 1
Analyte Arsenic Barium	Result 0.56 45	Qualifier	RL 1.0 2.5	0.23 0.73 0.17	ug/L ug/L	<u> </u>	12/01/23 09:38 12/01/23 09:38	12/07/23 20:38 12/07/23 20:38	Dil Fac 1 1 1 1
Analyte Arsenic Barium Cadmium	Result 0.56 45 <0.17	Qualifier J	1.0 2.5 0.50	0.23 0.73 0.17 1.1	ug/L ug/L ug/L	<u>D</u>	12/01/23 09:38 12/01/23 09:38 12/01/23 09:38	12/07/23 20:38 12/07/23 20:38 12/07/23 20:38	Dil Fac 1 1 1 1 1 1
Analyte Arsenic Barium Cadmium Chromium	Result 0.56 45 <0.17 <1.1	Qualifier J	1.0 2.5 0.50 5.0	0.23 0.73 0.17 1.1 0.19	ug/L ug/L ug/L ug/L	<u>D</u>	12/01/23 09:38 12/01/23 09:38 12/01/23 09:38 12/01/23 09:38	12/07/23 20:38 12/07/23 20:38 12/07/23 20:38 12/07/23 20:38	Dil Fac 1 1 1 1 1 1 1 1 1
Analyte Arsenic Barium Cadmium Chromium Lead	Result 0.56 45 <0.17 <1.1 1.4	Qualifier J	RL 1.0 2.5 0.50 5.0 0.50	0.23 0.73 0.17 1.1 0.19 0.98	ug/L ug/L ug/L ug/L ug/L	<u>D</u>	12/01/23 09:38 12/01/23 09:38 12/01/23 09:38 12/01/23 09:38 12/01/23 09:38	12/07/23 20:38 12/07/23 20:38 12/07/23 20:38 12/07/23 20:38 12/07/23 20:38	Dil Fac 1 1 1 1 1 1 1 1 1 1 1
Analyte Arsenic Barium Cadmium Chromium Lead Selenium	Result  0.56  45 <0.17 <1.1  1.4  12 <0.12	Qualifier J	1.0 2.5 0.50 5.0 0.50 2.5 0.50	0.23 0.73 0.17 1.1 0.19 0.98	ug/L ug/L ug/L ug/L ug/L ug/L	<u>D</u>	12/01/23 09:38 12/01/23 09:38 12/01/23 09:38 12/01/23 09:38 12/01/23 09:38 12/01/23 09:38	12/07/23 20:38 12/07/23 20:38 12/07/23 20:38 12/07/23 20:38 12/07/23 20:38 12/07/23 20:38	Dil Fac 1 1 1 1 1 1 1 1 1 1

0.20

0.079 ug/L

12/12/2023

Job ID: 500-242632-1

12/01/23 10:05 12/04/23 07:40

Client: K. Singh & Associates, Inc Job ID: 500-242632-1

Project/Site: Community Within the Corridor - 40441

**Client Sample ID: DUP-1** 

Lab Sample ID: 500-242632-5

**Matrix: Water** 

Date Collected: 11/14/23 00:00 Date Received: 11/16/23 10:10

Analyte	Result (	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	5.8	0.50	0.15	ug/L		-	11/21/23 15:06	
Bromobenzene	< 0.36	1.0	0.36	ug/L			11/21/23 15:06	1
Bromochloromethane	< 0.43	1.0	0.43	ug/L			11/21/23 15:06	1
Bromodichloromethane	<0.37	1.0	0.37	ug/L			11/21/23 15:06	1
Bromoform	<0.48	1.0		ug/L			11/21/23 15:06	1
Bromomethane	<0.80	3.0	0.80	ug/L			11/21/23 15:06	1
Carbon tetrachloride	<0.38	1.0		ug/L			11/21/23 15:06	1
Chlorobenzene	<0.39	1.0		ug/L			11/21/23 15:06	1
Chloroethane	7.1	5.0		ug/L			11/21/23 15:06	
Chloroform	<0.37	2.0		ug/L			11/21/23 15:06	
Chloromethane	<0.32	5.0		ug/L			11/21/23 15:06	
2-Chlorotoluene	<0.31	1.0		ug/L			11/21/23 15:06	
4-Chlorotoluene	<0.35	1.0		ug/L			11/21/23 15:06	
cis-1,2-Dichloroethene	3.9	1.0		ug/L			11/21/23 15:06	1
cis-1,3-Dichloropropene	<0.42	1.0		ug/L			11/21/23 15:06	
Dibromochloromethane	<0.49	1.0		ug/L			11/21/23 15:06	
1,2-Dibromo-3-Chloropropane	<2.0	5.0		ug/L			11/21/23 15:06	
1,2-Dibromoethane	<0.39	1.0		ug/L			11/21/23 15:06	
Dibromomethane	<0.27	1.0		ug/L			11/21/23 15:06	
1,2-Dichlorobenzene	<0.33	1.0		ug/L			11/21/23 15:06	
1,3-Dichlorobenzene	<0.40	1.0		ug/L			11/21/23 15:06	
1,4-Dichlorobenzene	<0.36	1.0		ug/L			11/21/23 15:06	· · · · · · · .
Dichlorodifluoromethane	<0.67	3.0		ug/L			11/21/23 15:06	
1,1-Dichloroethane	20	1.0		ug/L			11/21/23 15:06	
1,2-Dichloroethane	<0.39	1.0		ug/L			11/21/23 15:06	· · · · · · .
1,1-Dichloroethene	<0.39 *			ug/L			11/21/23 15:06	
1,2-Dichloropropane	< 0.43	1.0		ug/L			11/21/23 15:06	
1,3-Dichloropropane	<0.36	1.0		ug/L			11/21/23 15:06	,
2,2-Dichloropropane	<0.44	5.0		ug/L			11/21/23 15:06	
1,1-Dichloropropene	<0.30	1.0		ug/L			11/21/23 15:06	
Ethylbenzene	<0.18	0.50		ug/L			11/21/23 15:06	
Hexachlorobutadiene	<0.45	1.0		ug/L			11/21/23 15:06	
Isopropylbenzene	3.8	1.0		ug/L			11/21/23 15:06	
Isopropyl ether	<0.28	1.0		ug/L			11/21/23 15:06	
Methylene Chloride	1.7			ug/L			11/21/23 15:06	
Methyl tert-butyl ether	<0.39	1.0		ug/L			11/21/23 15:06	
Naphthalene	<0.34	1.0		ug/L			11/21/23 15:06	
n-Butylbenzene	< 0.39	1.0		ug/L			11/21/23 15:06	
	3.6	1.0		ug/L ug/L			11/21/23 15:06	,
N-Propylbenzene		1.0		ug/L ug/L			11/21/23 15:06	,
p-Isopropyltoluene	<0.36							
sec-Butylbenzene	<b>4.1</b> <0.39	1.0 1.0		ug/L			11/21/23 15:06 11/21/23 15:06	
Styrene				ug/L				
tert-Butylbenzene	1.3	1.0		ug/L			11/21/23 15:06	
1,1,1,2-Tetrachloroethane	<0.46	1.0		ug/L			11/21/23 15:06	
1,1,2,2-Tetrachloroethane	<0.40	1.0		ug/L			11/21/23 15:06	
Tetrachloroethene	<0.37 *			ug/L			11/21/23 15:06	•
Toluene	<0.15	0.50		ug/L			11/21/23 15:06	,
trans-1,2-Dichloroethene trans-1,3-Dichloropropene	<0.35 * <0.36	*+ 1.0 1.0		ug/L ug/L			11/21/23 15:06 11/21/23 15:06	1

Eurofins Chicago

12/12/2023

Lab Sample ID: 500-242632-5

**Matrix: Water** 

Job ID: 500-242632-1

**Client Sample ID: DUP-1** 

Date Collected: 11/14/23 00:00 Date Received: 11/16/23 10:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/21/23 15:06	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/21/23 15:06	1
1,1,1-Trichloroethane	3.2		1.0	0.38	ug/L			11/21/23 15:06	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/21/23 15:06	1
Trichloroethene	14		0.50	0.16	ug/L			11/21/23 15:06	1
Trichlorofluoromethane	<0.43	*+	1.0	0.43	ug/L			11/21/23 15:06	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/21/23 15:06	1
1,2,4-Trimethylbenzene	1.1		1.0	0.36	ug/L			11/21/23 15:06	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/21/23 15:06	1
Vinyl chloride	<0.20	*+	1.0	0.20	ug/L			11/21/23 15:06	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/21/23 15:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		72 - 124			-		11/21/23 15:06	1
Dibromofluoromethane (Surr)	108		75 - 120					11/21/23 15:06	1
1,2-Dichloroethane-d4 (Surr)	92		75 - 126					11/21/23 15:06	1
Toluene-d8 (Surr)	96		75 - 120					11/21/23 15:06	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.31	J	0.76	0.23	ug/L		11/20/23 07:57	11/21/23 16:48	1
Acenaphthylene	<0.20		0.76	0.20	ug/L		11/20/23 07:57	11/21/23 16:48	1
Anthracene	<0.25		0.76	0.25	ug/L		11/20/23 07:57	11/21/23 16:48	1
Benzo[a]anthracene	0.19		0.15	0.043	ug/L		11/20/23 07:57	11/21/23 16:48	1
Benzo[a]pyrene	< 0.075		0.15	0.075	ug/L		11/20/23 07:57	11/21/23 16:48	1
Benzo[b]fluoranthene	0.12	J	0.15	0.061	ug/L		11/20/23 07:57	11/21/23 16:48	1
Benzo[g,h,i]perylene	<0.28		0.76	0.28	ug/L		11/20/23 07:57	11/21/23 16:48	1
Benzo[k]fluoranthene	<0.048		0.15	0.048	ug/L		11/20/23 07:57	11/21/23 16:48	1
Chrysene	0.19		0.15	0.051	ug/L		11/20/23 07:57	11/21/23 16:48	1
Dibenz(a,h)anthracene	<0.038		0.23	0.038	ug/L		11/20/23 07:57	11/21/23 16:48	1
Fluoranthene	<0.34		0.76	0.34	ug/L		11/20/23 07:57	11/21/23 16:48	1
Fluorene	0.21	J	0.76	0.18	ug/L		11/20/23 07:57	11/21/23 16:48	1
Indeno[1,2,3-cd]pyrene	<0.056		0.15	0.056	ug/L		11/20/23 07:57	11/21/23 16:48	1
1-Methylnaphthalene	0.74	J	1.5	0.23	ug/L		11/20/23 07:57	11/21/23 16:48	1
2-Methylnaphthalene	<0.049		1.5	0.049	ug/L		11/20/23 07:57	11/21/23 16:48	1
Naphthalene	0.34	J	0.76	0.23	ug/L		11/20/23 07:57	11/21/23 16:48	1
Phenanthrene	<0.23		0.76	0.23	ug/L		11/20/23 07:57	11/21/23 16:48	1
Pyrene	<0.32		0.76	0.32	ug/L		11/20/23 07:57	11/21/23 16:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	76Recovery	Qualifier	LIIIIII	Prepareu	Allalyzeu	DII Fac	
2-Fluorobiphenyl (Surr)	83		34 - 110	11/20/23 07:57	11/21/23 16:48	1	
Nitrobenzene-d5 (Surr)	94		36 - 120	11/20/23 07:57	11/21/23 16:48	1	
Terphenyl-d14 (Surr)	100		40 - 145	11/20/23 07:57	11/21/23 16:48	1	

Method: SW846 8082A -	Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography									
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
PCB-1016	<0.35	1.0	0.35	ug/L		11/22/23 06:59	11/28/23 22:16	1		
PCB-1221	<0.35	1.0	0.35	ug/L		11/22/23 06:59	11/28/23 22:16	1		
PCB-1232	<0.35	1.0	0.35	ug/L		11/22/23 06:59	11/28/23 22:16	1		
PCB-1242	<0.35	1.0	0.35	ug/L		11/22/23 06:59	11/28/23 22:16	1		

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor - 40441

Lab Sample ID: 500-242632-5

**Client Sample ID: DUP-1** Date Collected: 11/14/23 00:00 **Matrix: Water** 

Date Received: 11/16/23 10:10

Method: SW846 8082A - F	Polychlorinated	Biphenyls	(PCBs) by G	as Chro	matogra	aphy (	Continued)		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.35		1.0	0.35	ug/L		11/22/23 06:59	11/28/23 22:16	1
PCB-1254	<0.50		1.0	0.50	ug/L		11/22/23 06:59	11/28/23 22:16	1
PCB-1260	3.0		1.0	0.50	ug/L		11/22/23 06:59	11/28/23 22:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	54		39 - 121				11/22/23 06:59	11/28/23 22:16	1
DCB Decachlorobiphenyl	50		19 - 120				11/22/23 06:59	11/28/23 22:16	1
Method: SW846 6020A - M Analyte		- DISSOIVEC Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier				D			Dil Fac
Arsenic	0.62	J	1.0	0.23	-		12/01/23 09:38	12/07/23 20:42	1
Barium	130		2.5	0.73	ug/L		12/01/23 09:38	12/07/23 20:42	1
Cadmium	<0.17		0.50	0.17	ug/L		12/01/23 09:38	12/07/23 20:42	1
Chromium	<1.1		5.0	1.1	ug/L		12/01/23 09:38	12/07/23 20:42	1
Lead	0.63	В	0.50	0.19	ug/L		12/01/23 09:38	12/07/23 20:42	1
Selenium	<0.98		2.5	0.98	ug/L		12/01/23 09:38	12/07/23 20:42	1
Silver	<0.12		0.50	0.12	ug/L		12/01/23 09:38	12/07/23 20:42	1
-   Method: SW846 7470A - N	Mercury (CVAA)	- Dissolve	d						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.079		0.20	0.079	ug/L		12/01/23 10:05	12/04/23 07:42	1

Job ID: 500-242632-1

12/12/2023

Client: K. Singh & Associates, Inc Job ID: 500-242632-1

Project/Site: Community Within the Corridor - 40441

**Client Sample ID: Trip Blank** 

Lab Sample ID: 500-242632-6 Date Collected: 11/14/23 00:00

**Matrix: Water** 

Date Received: 11/16/23 10:10

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.15	0.50	0.15	ug/L		<u> </u>	11/21/23 12:37	
Bromobenzene	<0.36	1.0	0.36	ug/L			11/21/23 12:37	
Bromochloromethane	<0.43	1.0		ug/L			11/21/23 12:37	
Bromodichloromethane	<0.37	1.0	0.37	ug/L			11/21/23 12:37	
Bromoform	<0.48	1.0		ug/L			11/21/23 12:37	
Bromomethane	<0.80	3.0		ug/L			11/21/23 12:37	
Carbon tetrachloride	<0.38	1.0		ug/L			11/21/23 12:37	
Chlorobenzene	<0.39	1.0		ug/L			11/21/23 12:37	
Chloroethane	<0.51	5.0		ug/L			11/21/23 12:37	
Chloroform	<0.37	2.0		ug/L			11/21/23 12:37	
Chloromethane	<0.32	5.0		ug/L			11/21/23 12:37	
2-Chlorotoluene	<0.31	1.0		ug/L			11/21/23 12:37	
4-Chlorotoluene	<0.35	1.0		ug/L			11/21/23 12:37	
cis-1,2-Dichloroethene	<0.41	1.0		ug/L			11/21/23 12:37	
cis-1,3-Dichloropropene	<0.42	1.0		ug/L			11/21/23 12:37	
Dibromochloromethane	<0.49	1.0		ug/L			11/21/23 12:37	
1,2-Dibromo-3-Chloropropane	<2.0	5.0		ug/L			11/21/23 12:37	
1,2-Dibromoethane	<0.39	1.0		ug/L			11/21/23 12:37	
Dibromomethane	<0.27	1.0		ug/L			11/21/23 12:37	
1,2-Dichlorobenzene	<0.33	1.0		ug/L			11/21/23 12:37	
1,3-Dichlorobenzene	<0.40	1.0		ug/L			11/21/23 12:37	
I,4-Dichlorobenzene	<0.36	1.0		ug/L			11/21/23 12:37	
Dichlorodifluoromethane	<0.67	3.0		ug/L			11/21/23 12:37	
,1-Dichloroethane	<0.41	1.0		ug/L			11/21/23 12:37	
I,2-Dichloroethane	<0.39	1.0		ug/L			11/21/23 12:37	
,1-Dichloroethene	<0.39 *+	1.0		ug/L			11/21/23 12:37	
l,2-Dichloropropane	<0.43	1.0		ug/L			11/21/23 12:37	
I,3-Dichloropropane	<0.36	1.0		ug/L			11/21/23 12:37	
2,2-Dichloropropane	<0.44	5.0		ug/L			11/21/23 12:37	
1,1-Dichloropropene	<0.30	1.0		ug/L			11/21/23 12:37	
Ethylbenzene	<0.18	0.50		ug/L			11/21/23 12:37	
Hexachlorobutadiene	<0.45	1.0		ug/L			11/21/23 12:37	
sopropylbenzene	<0.39	1.0		ug/L			11/21/23 12:37	
sopropyl ether	<0.28	1.0		ug/L ug/L			11/21/23 12:37	
Methylene Chloride	1.8 J	5.0		ug/L ug/L			11/21/23 12:37	
Methyl tert-butyl ether	<0.39	1.0		ug/L			11/21/23 12:37	
	<0.34			ug/L ug/L				
Naphthalene		1.0		ug/L ug/L			11/21/23 12:37	
n-Butylbenzene	<0.39 <0.41	1.0 1.0		_			11/21/23 12:37 11/21/23 12:37	
N-Propylbenzene				ug/L				
o-Isopropyltoluene	< 0.36	1.0		ug/L			11/21/23 12:37	
sec-Butylbenzene	<0.40	1.0		ug/L			11/21/23 12:37	
Styrene	<0.39	1.0		ug/L			11/21/23 12:37	
ert-Butylbenzene	<0.40	1.0		ug/L			11/21/23 12:37	
1,1,1,2-Tetrachloroethane	<0.46	1.0		ug/L			11/21/23 12:37	
1,1,2,2-Tetrachloroethane	<0.40	1.0		ug/L			11/21/23 12:37	
Tetrachloroethene	<0.37 *+	1.0		ug/L			11/21/23 12:37	
Toluene	<0.15	0.50		ug/L			11/21/23 12:37	
trans-1,2-Dichloroethene trans-1,3-Dichloropropene	<0.35 *+ <0.36	1.0		ug/L ug/L			11/21/23 12:37 11/21/23 12:37	

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor - 40441

Lab Sample ID: 500-242632-6

Matrix: Water

Job ID: 500-242632-1

Client Sample ID: Trip Blank Date Collected: 11/14/23 00:00

Date Received: 11/16/23 10:10

Method: SW846 8260B - Vo	latile Organic	Compoun	ds (GC/MS) (	Continu	ed)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/21/23 12:37	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/21/23 12:37	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/21/23 12:37	1
1,1,2-Trichloroethane	< 0.35		1.0	0.35	ug/L			11/21/23 12:37	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/21/23 12:37	1
Trichlorofluoromethane	<0.43	*+	1.0	0.43	ug/L			11/21/23 12:37	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/21/23 12:37	1
1,2,4-Trimethylbenzene	< 0.36		1.0	0.36	ug/L			11/21/23 12:37	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/21/23 12:37	1
Vinyl chloride	<0.20	*+	1.0	0.20	ug/L			11/21/23 12:37	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/21/23 12:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		72 - 124			-		11/21/23 12:37	1
Dibromofluoromethane (Surr)	106		75 - 120					11/21/23 12:37	1
1,2-Dichloroethane-d4 (Surr)	95		75 - 126					11/21/23 12:37	1
Toluene-d8 (Surr)	98		75 - 120					11/21/23 12:37	1

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### **Definitions/Glossary**

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor - 40441

Qualifiers

**GC/MS VOA** 

Qualifier **Qualifier Description** 

LCS and/or LCSD is outside acceptance limits, high biased.

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

GC/MS Semi VOA

Qualifier **Qualifier Description** 

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

S1-Surrogate recovery exceeds control limits, low biased.

**GC Semi VOA** 

Qualifier **Qualifier Description** 

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

**Metals** 

Qualifier **Qualifier Description** 

В Compound was found in the blank and sample.

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

**Glossary** 

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

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid Colony Forming Unit **CFU CNF** Contains No Free Liquid

**DER** Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor** 

Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

**EDL** Estimated Detection Limit (Dioxin) Limit of Detection (DoD/DOE) LOD LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL Minimum Level (Dioxin) MI MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

**PQL Practical Quantitation Limit** 

**PRES** Presumptive QC **Quality Control** 

**RER** Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

**RPD** Relative Percent Difference, a measure of the relative difference between two points

**TEF** Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

**TNTC** Too Numerous To Count

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Job ID: 500-242632-1

## **QC Association Summary**

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor - 40441

### **GC/MS VOA**

#### Analysis Batch: 743209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242632-1	EB-MW-2	Total/NA	Water	8260B	
500-242632-2	EB-MW-4R	Total/NA	Water	8260B	
500-242632-3	EB-MW-6	Total/NA	Water	8260B	
500-242632-4	EB-MW-5	Total/NA	Water	8260B	
500-242632-5	DUP-1	Total/NA	Water	8260B	
500-242632-6	Trip Blank	Total/NA	Water	8260B	
MB 500-743209/8	Method Blank	Total/NA	Water	8260B	
LCS 500-743209/27	Lab Control Sample	Total/NA	Water	8260B	

#### **GC/MS Semi VOA**

#### **Prep Batch: 743002**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242632-1	EB-MW-2	Total/NA	Water	3510C	<u> </u>
500-242632-2	EB-MW-4R	Total/NA	Water	3510C	
500-242632-3	EB-MW-6	Total/NA	Water	3510C	
500-242632-4	EB-MW-5	Total/NA	Water	3510C	
500-242632-5	DUP-1	Total/NA	Water	3510C	
MB 500-743002/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-743002/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-743002/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

#### **Analysis Batch: 743245**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242632-1	EB-MW-2	Total/NA	Water	8270D	743002
500-242632-3	EB-MW-6	Total/NA	Water	8270D	743002
500-242632-4	EB-MW-5	Total/NA	Water	8270D	743002
500-242632-5	DUP-1	Total/NA	Water	8270D	743002
MB 500-743002/1-A	Method Blank	Total/NA	Water	8270D	743002
LCS 500-743002/2-A	Lab Control Sample	Total/NA	Water	8270D	743002
LCSD 500-743002/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	743002

#### **Analysis Batch: 744166**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242632-2	EB-MW-4R	Total/NA	Water	8270D	743002

#### **GC Semi VOA**

#### **Prep Batch: 693020**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242632-1	EB-MW-2	Total/NA	Water	3510C	<u> </u>
500-242632-2	EB-MW-4R	Total/NA	Water	3510C	
500-242632-3	EB-MW-6	Total/NA	Water	3510C	
500-242632-4	EB-MW-5	Total/NA	Water	3510C	
500-242632-5	DUP-1	Total/NA	Water	3510C	
MB 480-693020/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-693020/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-693020/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

#### **Analysis Batch: 693219**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242632-1	EB-MW-2	Total/NA	Water	8082A	693020

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Job ID: 500-242632-1

## **QC Association Summary**

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor - 40441

GC Semi VOA (Continued)

#### **Analysis Batch: 693219 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242632-2	EB-MW-4R	Total/NA	Water	8082A	693020
MB 480-693020/1-A	Method Blank	Total/NA	Water	8082A	693020
LCS 480-693020/2-A	Lab Control Sample	Total/NA	Water	8082A	693020
LCSD 480-693020/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	693020

#### **Analysis Batch: 693605**

Lab Sample ID 500-242632-3	Client Sample ID EB-MW-6	Prep Type Total/NA	Matrix Water	Method 8082A	Prep Batch 693020
500-242632-4	EB-MW-5	Total/NA	Water	8082A	693020
500-242632-5	DUP-1	Total/NA	Water	8082A	693020

#### **Metals**

#### Filtration Batch: 744482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242632-1	EB-MW-2	Dissolved	Water	FILTRATION	
500-242632-2	EB-MW-4R	Dissolved	Water	FILTRATION	
500-242632-3	EB-MW-6	Dissolved	Water	FILTRATION	
500-242632-4	EB-MW-5	Dissolved	Water	FILTRATION	
500-242632-5	DUP-1	Dissolved	Water	FILTRATION	
MB 500-744482/1-B	Method Blank	Dissolved	Water	FILTRATION	
MB 500-744482/1-D	Method Blank	Dissolved	Water	FILTRATION	

#### **Prep Batch: 744675**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242632-1	EB-MW-2	Dissolved	Water	3005A	744482
500-242632-2	EB-MW-4R	Dissolved	Water	3005A	744482
500-242632-3	EB-MW-6	Dissolved	Water	3005A	744482
500-242632-4	EB-MW-5	Dissolved	Water	3005A	744482
500-242632-5	DUP-1	Dissolved	Water	3005A	744482
MB 500-744482/1-B	Method Blank	Dissolved	Water	3005A	744482
MB 500-744675/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-744675/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

#### **Prep Batch: 744678**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242632-1	EB-MW-2	Dissolved	Water	7470A	744482
500-242632-2	EB-MW-4R	Dissolved	Water	7470A	744482
500-242632-3	EB-MW-6	Dissolved	Water	7470A	744482
500-242632-4	EB-MW-5	Dissolved	Water	7470A	744482
500-242632-5	DUP-1	Dissolved	Water	7470A	744482
MB 500-744482/1-D	Method Blank	Dissolved	Water	7470A	744482
MB 500-744678/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-744678/13-A	Lab Control Sample	Total/NA	Water	7470A	

#### **Analysis Batch: 745000**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242632-1	EB-MW-2	Dissolved	Water	7470A	744678
500-242632-2	EB-MW-4R	Dissolved	Water	7470A	744678
500-242632-3	EB-MW-6	Dissolved	Water	7470A	744678
500-242632-4	EB-MW-5	Dissolved	Water	7470A	744678

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Job ID: 500-242632-1

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### **QC Association Summary**

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor - 40441

### **Metals (Continued)**

#### **Analysis Batch: 745000 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242632-5	DUP-1	Dissolved	Water	7470A	744678
MB 500-744482/1-D	Method Blank	Dissolved	Water	7470A	744678
MB 500-744678/12-A	Method Blank	Total/NA	Water	7470A	744678
LCS 500-744678/13-A	Lab Control Sample	Total/NA	Water	7470A	744678

#### **Analysis Batch: 745793**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242632-1	EB-MW-2	Dissolved	Water	6020A	744675
500-242632-2	EB-MW-4R	Dissolved	Water	6020A	744675
500-242632-3	EB-MW-6	Dissolved	Water	6020A	744675
500-242632-4	EB-MW-5	Dissolved	Water	6020A	744675
500-242632-5	DUP-1	Dissolved	Water	6020A	744675
MB 500-744482/1-B	Method Blank	Dissolved	Water	6020A	744675
MB 500-744675/1-A	Method Blank	Total Recoverable	Water	6020A	744675
LCS 500-744675/2-A	Lab Control Sample	Total Recoverable	Water	6020A	744675

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Job ID: 500-242632-1

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Project/Site: Community Within the Corridor - 40441

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

**Matrix: Water Prep Type: Total/NA** 

			Pe	ercent Surre	ogate Reco
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-242632-1	EB-MW-2	89	106	93	94
500-242632-2	EB-MW-4R	78	107	92	95
500-242632-3	EB-MW-6	88	102	97	100
500-242632-4	EB-MW-5	89	105	98	104
500-242632-5	DUP-1	85	108	92	96
500-242632-6	Trip Blank	87	106	95	98
LCS 500-743209/27	Lab Control Sample	79	109	92	97
MB 500-743209/8	Method Blank	89	104	96	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

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

**Matrix: Water** Prep Type: Total/NA

			Pe	ercent Surro
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(34-110)	(36-120)	(40-145)
500-242632-1	EB-MW-2	88	89	99
500-242632-2	EB-MW-4R	0 S1-	0 S1-	0 S1-
500-242632-3	EB-MW-6	82	89	77
500-242632-4	EB-MW-5	77	84	69
500-242632-5	DUP-1	83	94	100
LCS 500-743002/2-A	Lab Control Sample	88	96	103
LCSD 500-743002/3-A	Lab Control Sample Dup	83	88	99
MB 500-743002/1-A	Method Blank	74	83	94

**Surrogate Legend** 

FBP = 2-Fluorobiphenyl (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

#### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Matrix: Water** Prep Type: Total/NA

		<b>-</b> 0.40		urrogate Recovery (Acceptance Limits)
		TCX2	DCBP2	
Lab Sample ID	Client Sample ID	(39-121)	(19-120)	
500-242632-1	EB-MW-2	51	25	
500-242632-2	EB-MW-4R	42	42	
500-242632-3	EB-MW-6	53	40	
500-242632-4	EB-MW-5	62	36	
500-242632-5	DUP-1	54	50	
LCS 480-693020/2-A	Lab Control Sample	67	50	
LCSD 480-693020/3-A	Lab Control Sample Dup	78	53	
MB 480-693020/1-A	Method Blank	65	48	

TCX = Tetrachloro-m-xylene

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Job ID: 500-242632-1

### **Surrogate Summary**

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor - 40441

DCBP = DCB Decachlorobiphenyl

Job ID: 500-242632-1

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Client: K. Singh & Associates, Inc Job ID: 500-242632-1

Project/Site: Community Within the Corridor - 40441

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

Lab Sample ID: MB 500-743209/8

**Matrix: Water** 

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

Analysis Batch: 743209	ш	мр							
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L		•	11/21/23 11:23	1
Bromobenzene	< 0.36		1.0	0.36				11/21/23 11:23	1
Bromochloromethane	< 0.43		1.0	0.43	ug/L			11/21/23 11:23	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/21/23 11:23	1
Bromoform	<0.48		1.0	0.48	-			11/21/23 11:23	1
Bromomethane	<0.80		3.0	0.80	-			11/21/23 11:23	1
Carbon tetrachloride	<0.38		1.0	0.38				11/21/23 11:23	1
Chlorobenzene	< 0.39		1.0	0.39	-			11/21/23 11:23	1
Chloroethane	<0.51		5.0	0.51	_			11/21/23 11:23	1
Chloroform	<0.37		2.0	0.37				11/21/23 11:23	1
Chloromethane	<0.32		5.0	0.32	-			11/21/23 11:23	1
2-Chlorotoluene	<0.31		1.0	0.31	-			11/21/23 11:23	1
4-Chlorotoluene	<0.35		1.0	0.35				11/21/23 11:23	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	-			11/21/23 11:23	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	-			11/21/23 11:23	1
Dibromochloromethane	<0.49		1.0	0.49				11/21/23 11:23	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0		ug/L			11/21/23 11:23	1
1,2-Dibromoethane	<0.39		1.0	0.39	-			11/21/23 11:23	1
Dibromomethane	<0.27		1.0	0.27				11/21/23 11:23	1
1,2-Dichlorobenzene	< 0.33		1.0	0.33	-			11/21/23 11:23	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	-			11/21/23 11:23	1
1,4-Dichlorobenzene	<0.36		1.0	0.36				11/21/23 11:23	1
Dichlorodifluoromethane	< 0.67		3.0	0.67	-			11/21/23 11:23	1
1,1-Dichloroethane	<0.41		1.0	0.41	-			11/21/23 11:23	1
1,2-Dichloroethane	<0.39		1.0	0.39				11/21/23 11:23	1
1,1-Dichloroethene	<0.39		1.0	0.39	-			11/21/23 11:23	1
1,2-Dichloropropane	<0.43		1.0	0.43	-			11/21/23 11:23	1
	<0.36		1.0	0.43				11/21/23 11:23	
1,3-Dichloropropane	<0.44		5.0	0.30	-			11/21/23 11:23	1
2,2-Dichloropropane 1,1-Dichloropropene	<0.30		1.0	0.30	-			11/21/23 11:23	1
Ethylbenzene	<0.30		0.50	0.30				11/21/23 11:23	
Hexachlorobutadiene	<0.18		1.0	0.16	-			11/21/23 11:23	1
					•			11/21/23 11:23	1
Isopropylbenzene	<0.39		1.0	0.39				11/21/23 11:23	1
Isopropyl ether	<0.28		1.0	0.28					1
Methylene Chloride	<1.6		5.0		ug/L			11/21/23 11:23	1
Methyl tert-butyl ether	<0.39		1.0	0.39				11/21/23 11:23	1
Naphthalene	<0.34		1.0	0.34				11/21/23 11:23	1
n-Butylbenzene	<0.39		1.0	0.39	•			11/21/23 11:23	1
N-Propylbenzene	<0.41		1.0	0.41				11/21/23 11:23	1
p-Isopropyltoluene	<0.36		1.0	0.36				11/21/23 11:23	1
sec-Butylbenzene	<0.40		1.0	0.40	-			11/21/23 11:23	1
Styrene	<0.39		1.0	0.39				11/21/23 11:23	1
tert-Butylbenzene	<0.40		1.0	0.40	-			11/21/23 11:23	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	•			11/21/23 11:23	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40				11/21/23 11:23	1
Tetrachloroethene	<0.37		1.0	0.37				11/21/23 11:23	1
Toluene	<0.15		0.50	0.15				11/21/23 11:23	1
trans-1,2-Dichloroethene	< 0.35		1.0	0.35	ug/L			11/21/23 11:23	1

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4

6

8

10

11

13

-

RL

1.0

1.0

1.0

1.0

1.0

0.50

1.0

2.0

1.0

1.0

1.0

**MDL** Unit

0.36 ug/L

0.46 ug/L

0.34 ug/L

0.38 ug/L

0.35 ug/L

0.16 ug/L

0.43 ug/L

0.41 ug/L

0.36 ug/L

0.25 ug/L

0.20 ug/L

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor - 40441

Job ID: 500-242632-1

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

<0.36

< 0.46

< 0.34

<0.38

< 0.35

< 0.16

< 0.43

< 0.41

< 0.36

<0.25

< 0.20

MB MB Result

Qualifier

Lab Sample ID: MB 500-743209/8

**Matrix: Water** 

**Analysis Batch: 743209** 

trans-1,3-Dichloropropene

1,2,3-Trichlorobenzene

1,2,4-Trichlorobenzene

1,1,1-Trichloroethane

1,1,2-Trichloroethane

Trichlorofluoromethane

1,2,3-Trichloropropane

1,2,4-Trimethylbenzene

1,3,5-Trimethylbenzene

Trichloroethene

Vinyl chloride

Xylenes, Total

**Client Sample ID: Method Blank** 

**Prep Type: Total/NA** 

Prepared Analyzed Dil Fac 11/21/23 11:23 11/21/23 11:23

11/21/23 11:23 11/21/23 11:23 11/21/23 11:23 11/21/23 11:23 11/21/23 11:23 11/21/23 11:23 11/21/23 11:23 11/21/23 11:23

11/21/23 11:23

<0.22 1.0 0.22 ug/L 11/21/23 11:23 MB MB Qualifier Limits Prepared Analyzed Dil Fac

Surrogate %Recovery 4-Bromofluorobenzene (Surr) 89 72 - 124 11/21/23 11:23 Dibromofluoromethane (Surr) 104 75 - 120 11/21/23 11:23 1,2-Dichloroethane-d4 (Surr) 96 75 - 126 11/21/23 11:23 Toluene-d8 (Surr) 93 75 - 120 11/21/23 11:23

Lab Sample ID: LCS 500-743209/27

**Matrix: Water** 

**Analysis Batch: 743209** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Allalysis Batch. 143209	Spike	LCS	LCS				%Rec	
Analyte	Added		Qualifier	Unit	D	%Rec	Limits	
Benzene	50.0	51.2		ug/L	— <u> </u>	102	70 - 120	
Bromobenzene	50.0	45.4		ug/L		91	70 - 122	
Bromochloromethane	50.0	60.2		ug/L		120	65 - 122	
Bromodichloromethane	50.0	43.5		ug/L		87	69 - 120	
Bromoform	50.0	45.3		ug/L		91	56 - 132	
Bromomethane	50.0	55.1		ug/L		110	40 - 152	
Carbon tetrachloride	50.0	65.2		ug/L		130	59 - 133	
Chlorobenzene	50.0	50.7		ug/L		101	70 - 120	
Chloroethane	50.0	52.0		ug/L		104	48 - 136	
Chloroform	50.0	60.1		ug/L		120	70 - 120	
Chloromethane	50.0	57.3		ug/L		115	56 - 152	
2-Chlorotoluene	50.0	45.0		ug/L		90	70 - 125	
4-Chlorotoluene	50.0	42.4		ug/L		85	68 - 124	
cis-1,2-Dichloroethene	50.0	55.6		ug/L		111	70 - 125	
cis-1,3-Dichloropropene	50.0	39.6		ug/L		79	64 - 127	
Dibromochloromethane	50.0	46.2		ug/L		92	68 - 125	
1,2-Dibromo-3-Chloropropane	50.0	35.1		ug/L		70	56 - 123	
1,2-Dibromoethane	50.0	44.4		ug/L		89	70 - 125	
Dibromomethane	50.0	47.7		ug/L		95	70 - 120	
1,2-Dichlorobenzene	50.0	47.3		ug/L		95	70 - 125	
1,3-Dichlorobenzene	50.0	49.0		ug/L		98	70 - 125	
1,4-Dichlorobenzene	50.0	48.1		ug/L		96	70 - 120	
Dichlorodifluoromethane	50.0	71.8		ug/L		144	40 - 159	
1,1-Dichloroethane	50.0	57.0		ug/L		114	70 - 125	

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor - 40441

Job ID: 500-242632-1

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

Lab Sample ID: LCS 500-743209/27

**Matrix: Water** 

**Analysis Batch: 743209** 

**Client Sample ID: Lab Control Sample** 

**Prep Type: Total/NA** 

	Spike	LCS	LCS			%Rec
Analyte	Added	Result	Qualifier	Unit	D %Rec	Limits
1,2-Dichloroethane	50.0	46.5		ug/L	93	68 - 127
1,1-Dichloroethene	50.0	61.8	*+	ug/L	124	67 - 122
1,2-Dichloropropane	50.0	43.6		ug/L	87	67 - 130
1,3-Dichloropropane	50.0	44.6		ug/L	89	62 - 136
2,2-Dichloropropane	50.0	55.0		ug/L	110	58 - 139
1,1-Dichloropropene	50.0	56.3		ug/L	113	70 - 121
Ethylbenzene	50.0	50.2		ug/L	100	70 - 123
Hexachlorobutadiene	50.0	64.5		ug/L	129	51 - 150
Isopropylbenzene	50.0	43.6		ug/L	87	70 - 126
Methylene Chloride	50.0	55.0		ug/L	110	69 - 125
Methyl tert-butyl ether	50.0	46.4		ug/L	93	55 - 123
Naphthalene	50.0	43.3		ug/L	87	53 - 144
n-Butylbenzene	50.0	44.6		ug/L	89	68 - 125
N-Propylbenzene	50.0	42.3		ug/L	85	69 - 127
p-Isopropyltoluene	50.0	46.5		ug/L	93	70 - 125
sec-Butylbenzene	50.0	46.8		ug/L	94	70 - 123
Styrene	50.0	46.3		ug/L	93	70 - 120
tert-Butylbenzene	50.0	43.6		ug/L	87	70 - 121
1,1,1,2-Tetrachloroethane	50.0	53.9		ug/L	108	70 - 125
1,1,2,2-Tetrachloroethane	50.0	34.9		ug/L	70	62 - 140
Tetrachloroethene	50.0	64.9	*+	ug/L	130	70 - 128
Toluene	50.0	49.5		ug/L	99	70 - 125
trans-1,2-Dichloroethene	50.0	64.0	*+	ug/L	128	70 - 125
trans-1,3-Dichloropropene	50.0	41.6		ug/L	83	62 - 128
1,2,3-Trichlorobenzene	50.0	55.1		ug/L	110	51 - 145
1,2,4-Trichlorobenzene	50.0	54.4		ug/L	109	57 - 137
1,1,1-Trichloroethane	50.0	61.3		ug/L	123	70 - 125
1,1,2-Trichloroethane	50.0	43.2		ug/L	86	71 - 130
Trichloroethene	50.0	58.1		ug/L	116	70 - 125
Trichlorofluoromethane	50.0	80.8	*+	ug/L	162	55 - 128
1,2,3-Trichloropropane	50.0	45.0		ug/L	90	50 - 133
1,2,4-Trimethylbenzene	50.0	43.1		ug/L	86	70 - 123
1,3,5-Trimethylbenzene	50.0	44.3		ug/L	89	70 - 123
Vinyl chloride	50.0	64.4	*+	ug/L	129	64 - 126
Xylenes, Total	100	98.6		ug/L	99	70 - 125

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	79		72 - 124
Dibromofluoromethane (Surr)	109		75 - 120
1,2-Dichloroethane-d4 (Surr)	92		75 - 126
Toluene-d8 (Surr)	97		75 - 120

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor - 40441

Job ID: 500-242632-1

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

MD MD

Lab Sample ID: MB 500-743002/1-A

**Matrix: Water** 

**Analysis Batch: 743245** 

Client Sample ID: Method Blank

**Prep Type: Total/NA** 

**Prep Batch: 743002** 

Result (	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.25		0.80	0.25	ug/L		11/20/23 07:57	11/21/23 13:29	1
<0.21		0.80	0.21	ug/L		11/20/23 07:57	11/21/23 13:29	1
<0.27		0.80	0.27	ug/L		11/20/23 07:57	11/21/23 13:29	1
<0.045		0.16	0.045	ug/L		11/20/23 07:57	11/21/23 13:29	1
< 0.079		0.16	0.079	ug/L		11/20/23 07:57	11/21/23 13:29	1
< 0.065		0.16	0.065	ug/L		11/20/23 07:57	11/21/23 13:29	1
<0.30		0.80	0.30	ug/L		11/20/23 07:57	11/21/23 13:29	1
<0.051		0.16	0.051	ug/L		11/20/23 07:57	11/21/23 13:29	1
< 0.055		0.16	0.055	ug/L		11/20/23 07:57	11/21/23 13:29	1
<0.041		0.24	0.041	ug/L		11/20/23 07:57	11/21/23 13:29	1
<0.36		0.80	0.36	ug/L		11/20/23 07:57	11/21/23 13:29	1
<0.20		0.80	0.20	ug/L		11/20/23 07:57	11/21/23 13:29	1
<0.060		0.16	0.060	ug/L		11/20/23 07:57	11/21/23 13:29	1
<0.24		1.6	0.24	ug/L		11/20/23 07:57	11/21/23 13:29	1
<0.052		1.6	0.052	ug/L		11/20/23 07:57	11/21/23 13:29	1
<0.25		0.80	0.25	ug/L		11/20/23 07:57	11/21/23 13:29	1
<0.24		0.80	0.24	ug/L		11/20/23 07:57	11/21/23 13:29	1
<0.34		0.80	0.34	ug/L		11/20/23 07:57	11/21/23 13:29	1
	<0.25 <0.21 <0.27 <0.045 <0.079 <0.065 <0.30 <0.051 <0.055 <0.041 <0.36 <0.20 <0.060 <0.24 <0.052 <0.25 <0.24	<0.21 <0.27 <0.045 <0.079 <0.065 <0.30 <0.051 <0.055 <0.041 <0.36 <0.20 <0.060 <0.24 <0.052 <0.25 <0.24	<0.25	<0.25	<0.25	<0.25	<0.25         0.80         0.25 ug/L         11/20/23 07:57           <0.21	<0.25         0.80         0.25         ug/L         11/20/23 07:57         11/21/23 13:29           <0.21

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	74		34 - 110	11/20/23 07:57	11/21/23 13:29	1
Nitrobenzene-d5 (Surr)	83		36 - 120	11/20/23 07:57	11/21/23 13:29	1
Terphenyl-d14 (Surr)	94		40 - 145	11/20/23 07:57	11/21/23 13:29	1

Lab Sample ID: LCS 500-743002/2-A

**Matrix: Water** 

liont	Sample	ID: I	ah i	Control	Sample
Helli	Sample	ID. L	_ab '	COHUO	Sample

**Prep Type: Total/NA** 

Analysis Batch: 743245	Spike	LCS	LCS				Prep Batch: 743002 %Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthene	32.0	26.7		ug/L		83	46 - 110
Acenaphthylene	32.0	28.2		ug/L		88	47 - 113
Anthracene	32.0	32.2		ug/L		101	67 - 118
Benzo[a]anthracene	32.0	32.7		ug/L		102	70 - 126
Benzo[a]pyrene	32.0	39.9		ug/L		125	70 - 135
Benzo[b]fluoranthene	32.0	37.9		ug/L		118	69 - 136
Benzo[g,h,i]perylene	32.0	35.6		ug/L		111	70 - 135
Benzo[k]fluoranthene	32.0	33.5		ug/L		105	70 - 133
Chrysene	32.0	33.7		ug/L		105	68 - 129
Dibenz(a,h)anthracene	32.0	35.3		ug/L		110	70 - 134
Fluoranthene	32.0	34.6		ug/L		108	68 - 126
Fluorene	32.0	28.9		ug/L		90	53 - 120
Indeno[1,2,3-cd]pyrene	32.0	37.7		ug/L		118	65 - 133
1-Methylnaphthalene	32.0	24.1		ug/L		75	38 - 110
2-Methylnaphthalene	32.0	23.5		ug/L		73	34 - 110
Naphthalene	32.0	23.2		ug/L		73	36 - 110
Phenanthrene	32.0	31.4		ug/L		98	65 - 120
Pyrene	32.0	32.0		ug/L		100	70 - 126

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Project/Site: Community Within the Corridor - 40441

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

Lab Sample ID: LCS 500-743002/2-A

**Matrix: Water** 

**Analysis Batch: 743245** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Job ID: 500-242632-1

**Prep Batch: 743002** 

LCS LCS

Surrogate	%Recovery Q	ualifier	Limits
2-Fluorobiphenyl (Surr)	88		34 - 110
Nitrobenzene-d5 (Surr)	96		36 - 120
Terphenyl-d14 (Surr)	103		40 - 145

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

**Prep Batch: 743002** 

Lab Sample ID: LCSD 500-743002/3-A Matrix: Water

Analysis Batch: 743245

7 many one Date in 1 102 10									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthene	32.0	25.3		ug/L		79	46 - 110	5	20
Acenaphthylene	32.0	26.6		ug/L		83	47 - 113	6	20
Anthracene	32.0	31.6		ug/L		99	67 - 118	2	20
Benzo[a]anthracene	32.0	31.9		ug/L		100	70 - 126	3	20
Benzo[a]pyrene	32.0	36.4		ug/L		114	70 - 135	9	20
Benzo[b]fluoranthene	32.0	34.9		ug/L		109	69 - 136	8	20
Benzo[g,h,i]perylene	32.0	32.5		ug/L		102	70 - 135	9	20
Benzo[k]fluoranthene	32.0	31.0		ug/L		97	70 - 133	8	20
Chrysene	32.0	31.7		ug/L		99	68 - 129	6	20
Dibenz(a,h)anthracene	32.0	33.7		ug/L		105	70 - 134	4	20
Fluoranthene	32.0	34.1		ug/L		107	68 - 126	1	20
Fluorene	32.0	27.7		ug/L		86	53 - 120	5	20
Indeno[1,2,3-cd]pyrene	32.0	34.5		ug/L		108	65 - 133	9	20
1-Methylnaphthalene	32.0	22.1		ug/L		69	38 - 110	9	20
2-Methylnaphthalene	32.0	22.2		ug/L		69	34 - 110	6	20
Naphthalene	32.0	21.6		ug/L		67	36 - 110	7	20
Phenanthrene	32.0	30.0		ug/L		94	65 - 120	5	20
Pyrene	32.0	29.8		ug/L		93	70 - 126	7	20
				-					

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
2-Fluorobiphenyl (Surr)	83	34 - 110
Nitrobenzene-d5 (Surr)	88	36 - 120
Terphenyl-d14 (Surr)	99	40 - 145

#### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-693020/1-A

**Matrix: Water** 

Analysis Batch: 693219

Client	Sample	ID: M	ethod	Blank
	Pr	en Tvi	ne: Tot	al/NΔ

Prep Batch: 693020

ı		MB	MB							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	PCB-1016	<0.18		0.50	0.18	ug/L		11/22/23 06:59	11/27/23 02:56	1
I	PCB-1221	<0.18		0.50	0.18	ug/L		11/22/23 06:59	11/27/23 02:56	1
	PCB-1232	<0.18		0.50	0.18	ug/L		11/22/23 06:59	11/27/23 02:56	1
I	PCB-1242	<0.18		0.50	0.18	ug/L		11/22/23 06:59	11/27/23 02:56	1
	PCB-1248	<0.18		0.50	0.18	ug/L		11/22/23 06:59	11/27/23 02:56	1
	PCB-1254	<0.25		0.50	0.25	ug/L		11/22/23 06:59	11/27/23 02:56	1
١	PCB-1260	<0.25		0.50	0.25	ug/L		11/22/23 06:59	11/27/23 02:56	1

Project/Site: Community Within the Corridor - 40441

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 480-693020/1-A

**Matrix: Water** 

**Analysis Batch: 693219** 

**Client Sample ID: Method Blank** 

Prep Type: Total/NA

Job ID: 500-242632-1

**Prep Batch: 693020** 

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	65		39 - 121	11/22/23 06:59	11/27/23 02:56	1
DCB Decachlorobiphenyl	48		19 - 120	11/22/23 06:59	11/27/23 02:56	1

Lab Sample ID: LCS 480-693020/2-A

**Matrix: Water** 

Analysis Batch: 693219

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA **Prep Batch: 693020** 

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

PCB-1016 4.00 3.12 ug/L 78 62 - 130 PCB-1260 4.00 79 3.16 ug/L 56 - 123

LCS LCS

Surrogate %Recovery Qualifier Limits Tetrachloro-m-xylene 39 - 121 67 DCB Decachlorobiphenyl 50 19 - 120

Lab Sample ID: LCSD 480-693020/3-A

**Matrix: Water** 

PCB-1260

**Analysis Batch: 693219** 

**Client Sample ID: Lab Control Sample Dup** 

86

Prep Type: Total/NA

8

Prep Batch: 693020 Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Unit D %Rec Limits RPD Limit Analyte PCB-1016 4.00 3.80 95 62 - 130 20 50 ug/L

3.42

ug/L

4.00

LCSD LCSD

Surrogate %Recovery Qualifier Limits 39 - 121 Tetrachloro-m-xylene 78 DCB Decachlorobiphenyl 19 - 120 53

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-744675/1-A

**Matrix: Water** 

**Analysis Batch: 745793** 

Client Sample ID: Method Blank **Prep Type: Total Recoverable** 

56 - 123

Prep Batch: 744675

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		12/01/23 09:38	12/07/23 19:26	1
Barium	<0.73		2.5	0.73	ug/L		12/01/23 09:38	12/07/23 19:26	1
Cadmium	<0.17		0.50	0.17	ug/L		12/01/23 09:38	12/07/23 19:26	1
Chromium	<1.1		5.0	1.1	ug/L		12/01/23 09:38	12/07/23 19:26	1
Lead	<0.19		0.50	0.19	ug/L		12/01/23 09:38	12/07/23 19:26	1
Selenium	<0.98		2.5	0.98	ug/L		12/01/23 09:38	12/07/23 19:26	1
Silver	<0.12		0.50	0.12	ug/L		12/01/23 09:38	12/07/23 19:26	1

Lab Sample ID: LCS 500-744675/2-A

**Matrix: Water** 

**Analysis Batch: 745793** 

**Client Sample ID: Lab Control Sample Prep Type: Total Recoverable** 

Prep Batch: 744675

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 100 102 102 80 - 120 Arsenic ug/L

**Eurofins Chicago** 

12/12/2023

Project/Site: Community Within the Corridor - 40441

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-744675/2-A

**Matrix: Water** 

**Analysis Batch: 745793** 

**Client Sample ID: Lab Control Sample** 

**Prep Type: Total Recoverable** 

Prep Batch: 744675

Job ID: 500-242632-1

	Sı	oike	LCS	LCS				%Rec	
Analyte	Ad	ded	Result	Qualifier	Unit	D	%Rec	Limits	
Barium		500	512		ug/L		102	80 - 120	
Cadmium		50.0	50.2		ug/L		100	80 - 120	
Chromium		200	204		ug/L		102	80 - 120	
Lead		100	109		ug/L		109	80 - 120	
Selenium		100	102		ug/L		102	80 - 120	
Silver		50.0	50.7		ug/L		101	80 - 120	

Lab Sample ID: MB 500-744482/1-B

**Matrix: Water** 

**Analysis Batch: 745793** 

**Client Sample ID: Method Blank** 

**Prep Type: Dissolved** 

**Prep Batch: 744675** 

MB MB **Analyte** Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Arsenic <0.23 1.0 0.23 ug/L 12/01/23 09:38 12/07/23 20:23 Barium < 0.73 2.5 12/01/23 09:38 12/07/23 20:23 0.73 ug/L Cadmium < 0.17 0.50 0.17 ug/L 12/01/23 09:38 12/07/23 20:23 12/01/23 09:38 12/07/23 20:23 Chromium 5.0 <1.1 1.1 ug/L Lead 0.267 J 0.50 0.19 ug/L 12/01/23 09:38 12/07/23 20:23 12/01/23 09:38 12/07/23 20:23 Selenium < 0.98 2.5 0.98 ug/L 12/01/23 09:38 12/07/23 20:23 Silver < 0.12 0.50 0.12 ug/L

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-744678/12-A

**Matrix: Water** 

**Analysis Batch: 745000** 

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

Prep Batch: 744678

MB MB

Result Qualifier Analyte RL **MDL** Unit Prepared Analyzed Dil Fac 0.20 0.079 ug/L 12/01/23 10:05 12/04/23 07:27 Mercury < 0.079

Lab Sample ID: LCS 500-744678/13-A

**Matrix: Water** 

**Analysis Batch: 745000** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 744678

Spike LCS LCS %Rec Added Result Qualifier Limits **Analyte** Unit D %Rec 2.01 80 - 120 Mercury 2.02 ug/L 101

Lab Sample ID: MB 500-744482/1-D

**Matrix: Water** 

**Analysis Batch: 745000** 

**Client Sample ID: Method Blank** 

**Prep Type: Dissolved** 

Prep Batch: 744678

MB MB

**Analyte** Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Mercury < 0.079 0.20 0.079 ug/L 12/01/23 10:05 12/04/23 07:31

#### **Lab Chronicle**

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor - 40441

Client Sample ID: EB-MW-2

Date Collected: 11/14/23 10:45 Date Received: 11/16/23 10:10

Lab Sample ID: 500-242632-1

**Matrix: Water** 

Job ID: 500-242632-1

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260B			743209	W1T	EET CHI	11/21/23 13:27
Total/NA	Prep	3510C			743002	DAK	EET CHI	11/20/23 07:57
Total/NA	Analysis	8270D		1	743245	SS	EET CHI	11/21/23 15:33
Total/NA	Prep	3510C			693020	SMP	EET BUF	11/22/23 06:59
Total/NA	Analysis	8082A		1	693219	NC	EET BUF	11/27/23 05:52
Dissolved	Filtration	FILTRATION			744482	BDE	EET CHI	11/30/23 12:23
Dissolved	Prep	3005A			744675	BDE	EET CHI	12/01/23 09:38 - 12/01/23 10:08 1
Dissolved	Analysis	6020A		1	745793	BJH	EET CHI	12/07/23 20:26
Dissolved	Filtration	FILTRATION			744482	BDE	EET CHI	11/30/23 12:23
Dissolved	Prep	7470A			744678	MJG	EET CHI	12/01/23 10:05 - 12/01/23 12:05 1
Dissolved	Analysis	7470A		1	745000	MJG	EET CHI	12/04/23 07:33

Client Sample ID: EB-MW-4R

Date Collected: 11/14/23 11:30

Lab Sample ID: 500-242632-2

**Matrix: Water** 

Date Received: 11/16/23 10:10

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260B		1	743209	W1T	EET CHI	11/21/23 13:52
Total/NA	Prep	3510C			743002	DAK	EET CHI	11/20/23 07:57
Total/NA	Analysis	8270D		100	744166	JSB	EET CHI	11/29/23 21:41
Total/NA	Prep	3510C			693020	SMP	EET BUF	11/22/23 06:59
Total/NA	Analysis	8082A		20	693219	NC	EET BUF	11/27/23 16:24
Dissolved	Filtration	FILTRATION			744482	BDE	EET CHI	11/30/23 12:23
Dissolved	Prep	3005A			744675	BDE	EET CHI	12/01/23 09:38 - 12/01/23 10:08
Dissolved	Analysis	6020A		1	745793	BJH	EET CHI	12/07/23 20:30
Dissolved	Filtration	FILTRATION			744482	BDE	EET CHI	11/30/23 12:23
Dissolved	Prep	7470A			744678	MJG	EET CHI	12/01/23 10:05 - 12/01/23 12:05
Dissolved	Analysis	7470A		1	745000	MJG	EET CHI	12/04/23 07:35

**Client Sample ID: EB-MW-6** 

Date Collected: 11/14/23 12:00

Date Received: 11/16/23 10:10

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260B			743209	W1T	EET CHI	11/21/23 14:17
Total/NA	Prep	3510C			743002	DAK	EET CHI	11/20/23 07:57
Total/NA	Analysis	8270D		1	743245	SS	EET CHI	11/21/23 15:58
Total/NA	Prep	3510C			693020	SMP	EET BUF	11/22/23 06:59
Total/NA	Analysis	8082A		1	693605	DSC	EET BUF	11/28/23 21:41
Dissolved	Filtration	FILTRATION			744482	BDE	EET CHI	11/30/23 12:23
Dissolved	Prep	3005A			744675	BDE	EET CHI	12/01/23 09:38 - 12/01/23 10:08 <sup>1</sup>
Dissolved	Analysis	6020A		1	745793	BJH	EET CHI	12/07/23 20:34
Dissolved	Filtration	FILTRATION			744482	BDE	EET CHI	11/30/23 12:23
Dissolved	Prep	7470A			744678	MJG	EET CHI	12/01/23 10:05 - 12/01/23 12:05 <sup>1</sup>
Dissolved	Analysis	7470A		1	745000	MJG	EET CHI	12/04/23 07:37

**Eurofins Chicago** 

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Lab Sample ID: 500-242632-3 **Matrix: Water** 

#### **Lab Chronicle**

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor - 40441

**Client Sample ID: EB-MW-5** 

Date Collected: 11/14/23 13:30 Date Received: 11/16/23 10:10 Lab Sample ID: 500-242632-4

**Matrix: Water** 

Job ID: 500-242632-1

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260B		1	743209	W1T	EET CHI	11/21/23 14:42
Total/NA	Prep	3510C			743002	DAK	EET CHI	11/20/23 07:57
Total/NA	Analysis	8270D		1	743245	SS	EET CHI	11/21/23 16:23
Total/NA	Prep	3510C			693020	SMP	EET BUF	11/22/23 06:59
Total/NA	Analysis	8082A		1	693605	DSC	EET BUF	11/28/23 21:59
Dissolved	Filtration	FILTRATION			744482	BDE	EET CHI	11/30/23 12:23
Dissolved	Prep	3005A			744675	BDE	EET CHI	12/01/23 09:38 - 12/01/23 10:08 <sup>1</sup>
Dissolved	Analysis	6020A		1	745793	BJH	EET CHI	12/07/23 20:38
Dissolved	Filtration	FILTRATION			744482	BDE	EET CHI	11/30/23 12:23
Dissolved	Prep	7470A			744678	MJG	EET CHI	12/01/23 10:05 - 12/01/23 12:05 <sup>1</sup>
Dissolved	Analysis	7470A		1	745000	MJG	EET CHI	12/04/23 07:40

Client Sample ID: DUP-1 Lab Sample ID: 500-242632-5

Date Collected: 11/14/23 00:00 Matrix: Water Date Received: 11/16/23 10:10

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260B			743209	W1T	EET CHI	11/21/23 15:06
Total/NA	Prep	3510C			743002	DAK	EET CHI	11/20/23 07:57
Total/NA	Analysis	8270D		1	743245	SS	EET CHI	11/21/23 16:48
Total/NA	Prep	3510C			693020	SMP	EET BUF	11/22/23 06:59
Total/NA	Analysis	8082A		1	693605	DSC	EET BUF	11/28/23 22:16
Dissolved	Filtration	FILTRATION			744482	BDE	EET CHI	11/30/23 12:23
Dissolved	Prep	3005A			744675	BDE	EET CHI	12/01/23 09:38 - 12/01/23 10:08
Dissolved	Analysis	6020A		1	745793	BJH	EET CHI	12/07/23 20:42
Dissolved	Filtration	FILTRATION			744482	BDE	EET CHI	11/30/23 12:23
Dissolved	Prep	7470A			744678	MJG	EET CHI	12/01/23 10:05 - 12/01/23 12:05
Dissolved	Analysis	7470A		1	745000	MJG	EET CHI	12/04/23 07:42

Client Sample ID: Trip Blank

Date Collected: 11/14/23 00:00

Lab Sample ID: 500-242632-6

Matrix: Water

Date Received: 11/16/23 10:10

	Batch	Batch		Dilution	Batch		Prepared
Prep Type	Type	Method	Run	Factor	Number Analyst	Lab	or Analyzed
Total/NA	Analysis	8260B			743209 W1T	EET CHI	11/21/23 12:37

<sup>&</sup>lt;sup>1</sup> This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

#### **Laboratory References:**

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600 EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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### **Accreditation/Certification Summary**

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor - 40441

### **Laboratory: Eurofins Chicago**

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

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

### **Laboratory: Eurofins Buffalo**

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	<b>Expiration Date</b>
Arkansas DEQ	State	88-0686	07-06-23 *
Connecticut	State	PH-0568	03-31-24
Florida	NELAP	E87672	06-30-23 *
Georgia	State	10026 (NY)	03-31-24
Georgia	State Program	N/A	03-31-09 *
Illinois	NELAP	200003	09-30-23 *
lowa	State	374	03-01-25
lowa	State Program	374	03-01-09 *
Kansas	NELAP	E-10187	02-01-24
Kentucky (DW)	State	90029	01-01-24
Kentucky (UST)	State	108092	04-01-24
Kentucky (WW)	State	KY90029	12-31-23
Louisiana	NELAP	02031	06-30-23 *
Louisiana (All)	NELAP	02031	06-30-23 *
Maine	State	NY00044	12-04-24
Maryland	State	294	06-30-24
Massachusetts	State	M-NY044	07-01-24
Michigan	State	9937	04-01-24
Michigan	State Program	9937	04-01-09 *
New Hampshire	NELAP	2973	09-11-19 *
New Hampshire	NELAP	2337	11-17-24
New Jersey	NELAP	NY455	06-30-24
New York	NELAP	10026	03-31-24
Pennsylvania	NELAP	68-00281	08-31-24
Rhode Island	State	LAO00378	12-30-23
Texas	NELAP	T104704412-18-10	07-31-23 *
USDA	US Federal Programs	P330-18-00039	03-25-24
Virginia	NELAP	460185	09-14-24
Washington	State	C784	02-10-24
Wisconsin	State	998310390	08-31-24

Job ID: 500-242632-1

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 $<sup>^{\</sup>star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$ 

	ρ.,	l Cons	ultants																580	-24	4263	$\mathcal{L}$
Sample Collector(s)				K2666 -	Title			•			Telephon	ne # (incl	I area co	ode)				Report To	<i></i>		·	
Samuel	Riverte	2									(262) 821	1 1171						Robert Rein	eke, Pratap S	Singh, Samue	l Ramirez	
Property Owner	( 0207 41 0	<u> </u>		_	Property Address						Telephon		area co	ode)				KSingh Proj			***	
			500	-242632 COC															404	41		ľ
Community Within The C I hereby certify that I rece					2748 N 3	2nd Stre	et, Milwa	ukee W	l		Laborato	nı Name	<u> </u>	urofins				40449	- (01	11	A -	st. 8
Relinquished By (Signatu		r, and dispos	sed of the sair	ipies as noted below	Date/Time /	1000					Received			Luioiiis					Temperatur	<i>€1 } ∞</i> e Blank	10 7	7100
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	Lu	$\nu \in$	n		11/15/2	3		1 1	10C			LH)	w	LN	M	5	- 1 i	010	temperature	blank		
1 Specify grou	indwater (GW	), soil (S), ai	ir (A), sludge (	(SL), surface water (SW	) etc.						1	74			Ĭ				٥	ample Condit	ion	
2 Sample des	cription must	clearly corre	late the samp	le I D to the sampling lo	ocation	]													J	ample Condit		<del></del>
		San	nples			١.	<b>.</b>	4	25										# / Type o	f Container		1
Date Collected	Time Collected	Type (1)	Device		Description (2)	Voc	5	BCR.	PCBs									MeOH	HCL	H2SO4	Unpres	Other Comment
11/14	16 45	GW	Baller	EB MW- >		X	χ	X	X				İ		l				3		3	
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KSingh Engineers Scientists Consultants

434MIW EXP 01/24 .

ACTWGT: 55.10 LB CAD: 0780307/CAFE3755

BILL RECIPIENT

BROOKFIELD, WI 53005 UNITED STATES US SAMPLE RECEIPT EUROFINS - CHICAGO 2417 BOND ST.

# **UNIVERSITY PARK IL 60484**

EUROFINS 4125 N 124TH STREET



3 of 6 MPS# 7163 1500 6751 Mstr# 7163 1500 6730

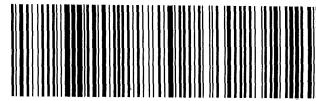
0201

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THU - 16 NOV 10:30A

PRIORITY OVERNIGHT

IL-US ORD



BILL RECIPIENT BROOKFIELD, WI 53005 UNITED STATES US SAMPLE RECEIPT EUROFINS - CHICAGO 2417 BOND ST.



ACTWGT: 54.80 LB 'CAD: 0780307/CAFE3755



**UNIVERSITY PARK IL 60484** 

(708) 534-5200

THN EVANS '
EUROFINS
4125 N 124TH STREET



7163-1500 6762 Mstr# 7163 1500 6730

THU - 16 NOV 10:30A PRIORITY OVERNIGHT

60484



Page 44 of 47 12/12/2023

Chain of Custody Record	Lab PM: Fredrick, Sandie F. Mait	Sandra Frankrick@et eurofinemen over Nation Chigin.
Ch	Sampler: Phone:	
<b>Eurotins Chicago</b> 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Fax: 708-534-5211	Client Information (Sub Contract Lab)	Shipping/Receiving

Client Information (Sub Contract Lab)	Sampler:		Lab PM: Fredric	Lab PM: Fredrick, Sandie	۵	Carrier Tracking No(s):	COC No:
Client Confact: Shipping/Receiving	Phone:		E-Mail Sandr	a Fredrick	E-Mail: Sandra Fredrick@et eurofineus com	State of Origin:	Page:
Company: Eurofins Environment Testing Northeast				ccreditation	Accreditations Required (See note):	Wisconsin	Page 1 of 1 Job#:
Address:	Duo Date Beaucated		0,7	state Prog	State Program - Wisconsin		500-242632-1
10 Hazelwood Drive,	12/4/2023				Analysis Reguested	nested	l g
City: Amherst	TAT Requested (days):			38			
State, Zip. NY, 14228-2298	T						C - Zn Acetate O - AsnaO2 D - Nitric Acid P - Na2O4S E - Nace O - Na2SO3
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:						F - MeOH S - H2SO4 G - Amchlor T - TEP D440-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
Email:	WO#:						
Project Name: Community Within the Corridor - 40441B	Project #: 50022445			N 10 8		anuli	J - DI water K - EDTA L - EDA
Site:	SSOW#:			eV) Ge		anoo j	Z - other (specify) Other:
Sample Identification - Client ID (Lab ID)	Sample Date Ti	Sample Type Sample (C=comp,		ield Filtered S erform MS/M: erform MS/M: erform MS/MS		o 19dmuM listo	
	( )		Preservation Code:	X		)1)	Special Instructions/Note:
EB-MW-2 (500-242632-1)	11/14/23	_	Water	×			
EB-MW-4R (500-242632-2)	11/14/23	11:30 Central	Water	×		1	
EB-MW-6 (500-242632-3)	11/14/23 Cel	12:00 Central	Water	×			
EB-MW-5 (500-242632-4)	11/14/23 13 Cel	13:30 Central	Water	×			
DUP-1 (500-242632-5)	11/14/23 Ce	Central	Water	×		-	
Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/rests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.	laces the ownership of methoc nalyzed, the samples must be d Chain of Custody attesting to	, analyte & accreditati shipped back to the Ei said compliance to E	on compliance up urofins Chicago la urofins Chicago.	on our subc boratory or o	ontract laboratories. This sample sother instructions will be provided.	nipment is forwarded under chain-of-cus	stody. If the laboratory does not currently maintain uld be brought to Eurofins Chicago attention
Possible Hazard Identification				Sample	e Disposal ( A fee may be a	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	ed longer than 1 month)
Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Donk				Return To Client	Disposal By Lab	Archive For Months
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		dilh. z		Special	Special Instructions/QC Requirements:	nts:	
Emply Air Reinquisned by: Relinquished by:	Date			Time:		Method of Shipment:	
Relinquished by	Date/Time:	00011		Rec	Received by: Www Work	VV.6 Date/Time: [[	17173 103 Company A
Relinquished by:	Data Time		(indicate)	2	erved by.	Date/Time:	Company
olo loto ot:	Date/		Company	Rec	Received by:	Date/Time:	Сотрапу
Custody Seals No: △ Yes △ No				Coo	Cooler Temperature(s) °C and Other Remarks:	# + 27 #	+ 1±(F
							1

### **Login Sample Receipt Checklist**

Client: K. Singh & Associates, Inc Job Number: 500-242632-1

Login Number: 242632 List Source: Eurofins Chicago

List Number: 1

Creator: Scott. Sherri L

Creator: Scott, Sherri L	_	_
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1,1.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	False	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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### **Login Sample Receipt Checklist**

Client: K. Singh & Associates, Inc Job Number: 500-242632-1

List Source: Eurofins Buffalo
List Number: 2
List Creation: 11/20/23 11:47 AM

Creator: Kolb. Chris M

Creator: Kolb, Chris M		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7 IR GUN #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

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