KSingh | Engineers Scientists Consultants

September 13, 2023

Ms. Jennifer Meyer
Wisconsin Department of Natural Resources
1027 W. Saint Paul Avenue
Milwaukee, WI 53233

Project #40441B

Subject: Soil Sampling Plan in Response to WDNR Review of Remedial Action Options Report
Community Within the Corridor - East Block
2748 N. 32nd Street, Milwaukee, WI 53210
BRRTS #02-41-263675, FID #241025400

Dear Ms. Meyer:

On September 7, 2023, the Wisconsin Department of Natural Resources (WDNR) issued a Review of the Remedial Action Options Report submitted on July 25, 2023. In the review, WDNR noted that soil sample HS-5, collected in 2021 as part of remedial action documentation confirmatory sampling, identified Trichloroethylene (TCE) at 220 mg/kg at confirmatory soil sample EB-HS-5. Based on that concentration, the WDNR rescinded their earlier contained out decision and determined that a "separate hazardous waste determination will be required for the additional areas of excavation that are proposed within the Report." Please find enclosed a soil sampling plan to address WDNR's request for a hazardous waste determination for the proposed areas of excavation. We request that WDNR review and provide feedback as needed for this sampling plan. A review fee in the amount of $700 is attached.

Proposed Additional Excavation Remedial Action Plan

On June 7, 2023, the WDNR completed a review of the Interim & Remedial Action Status and recommended that additional remedial action be conducted "as soon as feasible", and that "additional active remedial action" would likely be required. We note that the vapor action level exceedances in residential units have not been an applicable condition since mid-July and that depressurization of greater than -0.010 inches of water has been maintained under all the residential units, however to move the project towards a successful outcome a Remedial Action Options Report was submitted to the WDNR on July 25, 2023 which proposed additional source removal to assuage WDNR concerns. Added resiliency actions including the use of biochar and the additional blowers/vapor extraction points were also proposed. The layout of the building and proposed areas of additional excavations are shown on Figures 1 to 4 and summarized in Table 1.

Evaluation of Known Soil Contamination vs. "Contained Out" Criteria

Sixteen areas were identified for additional soil source removal. We have evaluated the soils in these areas based on previously submitted data collected between 2021 and 2023. Soil sample locations and tabulated test results can be found in Appendix A with key data highlighted in yellow. Please find an evaluation of the various areas of proposed excavation as follows:

Vicinity of Soil Sample EB-HS-5

The following six areas were identified in the vicinity of soil sample EB-HS-5 with its concentration of 220 mg/kg TCE and will have additional soil samples collected for soil characterization:

Unit	Location	Representative Sample
Hall	Hall to 1050	EB-HS-5 (220 mg/kg TCE)
Hall	Corridor Outside 1048/1049	EB-HS-5 (220 mg/kg TCE)
1048	Laundry	EB-HS-5 (220 mg/kg TCE)
1056	Mechanical Electrical Room	EB-HS-5 (220 mg/kg TCE)
1049	Storage Room	EB-HS-5 (220 mg/kg TCE)
Hall	Hall to 1051	EB-HS-5 (220 mg/kg TCE)

Units and Halls in the Vicinity of 1044, 1045, and 1050

The following five areas are characterized by confirmatory testing from the Remedial Action Documentation Report, specifically confirmatory samples EB-HS-8, EB-HS-9, EB-B-30, EB-HS-11, and EB-HS-12 with samples taken between 0.5 and 3.5 feet below the top of excavation surface:

Unit	Location	Representative Sample
Hall	Hall Outside 1044 and 1045	EB-HS-8, EB-HS-9, EB-HS-11, EB-HS-12, EB-B30 (max TCE concentration 3.7 mg/kg)
1044	Main	EB-HS-8, EB-HS-9, EB-HS-11, EB-HS-12, EB-B30 (max TCE concentration 3.7 mg/kg)
1045	Main	EB-HS-8, EB-HS-9, EB-HS-11, EB-HS-12, EB-B30 (max TCE concentration 3.7 mg/kg)
1045	Bedroom	EB-HS-8, EB-HS-9, EB-HS-11, EB-HS-12, EB-B30 (max TCE concentration 3.7 mg/kg)
1050	Main	EB-HS-8, EB-HS-9, EB-HS-11, EB-HS-12, EB-B30 (max TCE concentration 3.7 mg/kg)

In "Contained-Out" Values for PCE, TCE and Vinyl Chloride", PUB-RR-969, published December 2013, the WDNR reported a "contained out" value for soils containing TCE of 8.8 mg/kg. Therefore, based on a maximum concentration of TCE in the area of 3.7 mg/kg we conclude that TCE contaminated soils in the vicinity of Hall Outside 1044 and 1045, 1044, 1045 Main, 1045 Bedroom, and 1050 Main do not exhibits characteristics of hazardous waste and meet the WDNR's "contained out" criteria. No further characterization is necessary based on the concentration of TCE.

Southwest Garage and Stairwell 4
Ten soil samples were collected in the Southwest Garage and one soil sample was collected in Stairwell 4 on July 19 to 20, 2023 from 1 to 4 feet below top of slab.

Unit	Location	Representative Sample
1B-NW	Garage Near SW Garage Vapor Pin (Parking Space 2, Parking Space 6, and Parking Space 19)	SW-B6 (1 mg/kg TCE maximum)
NW Gym Stairwell	NW Gym Stairwell	12 mg/kg TCE

The results were submitted to the WDNR previously. Based on the maximum TCE result of 1 mg/kg being less than the "contained out" criteria of 8.8 mg/kg, we conclude that TCE contaminated soils in the southwest garage do not exhibit characteristics of hazardous waste and meet the WDNR's "contained out" criteria. No further characterization is necessary for SW Garage area excavations based on the most recent data submitted to WDNR.

However, Stairwell 4 had a residual TCE concentration of 12 mg/kg based on the July 2023 sampling. Additional characterization is proposed for Stairwell 4 area soils.

Northern Mechanical Room
The Northern Mechanical Room was evaluated based on test results from soil sample VE-1 collected during the Site Investigation from zero to one-foot below top of slab. The findings are summarized as follows:

Unit	Location	Representative Sample
N. Mech. Room	N. Mech. Room	VE-1 (2.7 mg/kg TCE)

Based on the TCE result of 2.7 mg/kg being less than the "contained out" criteria of 8.8 mg/kg, we conclude that TCE contaminated soils in the Northern Mechanical Room do not exhibit characteristics of hazardous waste and meet the WDNR's "contained out" criteria. No further characterization is necessary for the Northern Mechanical Room excavation.

Gym Area
The gym area excavations near vapor pins BB1 and BB2 are characterized by soil samples collected from locations SS-48, SS-51, and EB-B-27, and EB-B-32 during the site investigation. The gym area findings are summarized as follows:

Unit	Location	Representative Sample
1B-C	SW Portion of Gym (Vapor Pin BB1)	SS-48, SS-51, EB-B27, and EB-B-32 (max TCE 2.4 mg/kg)
1B-C	S Portion of Gym (Vapor Pin BB2)	SS-48, SS-51, EB-B27, and EB-B-32 (max TCE 2.4 mg/kg)

The maximum concentration of TCE was detected from EB-B-32 at 2.4 mg/kg. Based on the TCE result of 2.4 mg/kg being less than the "contained out" criteria of 8.8 mg/kg, we conclude that TCE contaminated soils in the Gym Area do not exhibit characteristics of hazardous waste and meet the WDNR's "contained out" criteria. No further characterization is necessary for the Gym Area Excavations.

Based on our review of all known data, areas Hall to 1050, Corridor Outside 1048/1049, 1048 / Laundry, 1056 Mechanical Electrical Room, 1049 Storage Room, Hall to 1051, and Stairwell 4 are proposed for additional sampling for hazardous waste characterization with representative TCE concentrations greater than 8.8 mg/kg.

The remaining areas are documented with residual contamination of less than 8.8 mg/kg for TCE and we request WDNR's approval to proceed with remedial actions in those areas.

Proposed Additional Soil Sampling Plan

Each of the following areas are proposed to have additional soil samples collected between six inches below the native soil surface and one foot below the native soil surface prior to excavation and tested for VOCs (13 samples total), based on the source of contamination being the surface and documented soil contamination in the vicinity greater than 8.8 mg/kg:

1. Hall to 1050 (2 samples);
2. Corridor Outside 1048/1049 (2 samples);
3. 1048 / Laundry (2 samples);
4. 1056 Mechanical Electrical Room (2 samples);
5. 1049 Storage Room (2 samples);
6. Hall to 1051 (2 samples); and
7. Stairwell 4 (1 sample)

In addition, prior to excavation, the following additional soil samples (13 soil samples total) will be collected between 3.5 feet below the native soil surface and 4 feet below the native soil surface prior to excavation and tested for VOCs:

1. Hall to 1050 (2 samples);
2. Corridor Outside 1048/1049 (2 samples);
3. 1048 / Laundry (2 samples);
4. 1056 Mechanical Electrical Room (2 samples);
5. 1049 Storage Room (2 samples);
6. Hall to 1051 (2 samples); and
7. Stairwell 4 (1 sample)

To select samples for testing in areas outside of Stairwell 4, initial samples will be collected at 6 inches to one foot below the native soil surface and screened for TCE vapors at 5-foot intervals proceeding east to west in the areas, adjusted as necessary for obstructions. Based on the TCE vapor measurements, two samples from each area with the greatest TCE measurements will be tested for total volatile organic compounds (VOCs). A single sample will be collected from the Stairwell 4 area. The locations of the sample locations are shown on Figure 5.

Hand tools or mechanical augers will then be utilized to advance test holes to 3.5 below the native soil surface where additional soil samples will be collected and tested for total VOCs based on the selected near surface locations.

Following the receipt of test results, at least two samples will be selected to be tested for Total Characteristic Leaching Protocol (TCLP) VOCs based on the TCE concentrations analyzed. The results of TCLP testing will be used to characterize the soils for disposal.

The results will be utilized to characterize soils for disposal so that soils will be handled appropriately. Following source removal to 4 feet, confirmatory samples will be taken between six inches below the soil surface and one foot below the soil surface consisting of 2 samples per excavated area. In addition, two samples per excavated area will be collected to comply with WDNR's request for additional soil sampling between 4 and 8 feet for the purpose of estimating residual TCE mass at the conclusion of additional source removal excavations. The soil sampling between 4 and 8 feet below the existing surface will be accomplished utilizing hand tools or mechanical augers.

Closure

All residential areas of Community Within the Corridor – East Block have achieved and sustained residential Vapor Action Levels (VALs) for TCE in indoor air of less than 2.1 ug/m3 since mid-July and all residential areas have achieved and sustained depressurization of greater than 2.5 times the WDNR standard of -0.004 inches of water over the same period. More than 180,000 data points have been collected documenting indoor air quality, sub-slab vapor quality, and sub-slab depressurization.

The current blower systems are operating at 50% capacity, with added capacity to respond to changing conditions, and several additional blowers are scheduled to be installed for redundancy and resiliency in the next week. We have good reason to believe that all areas of the building, except perhaps the non-publicly accessible Northern Mechanical Room, will meet all VALs and depressurization requirements of the WDNR in the next few days.

The building has been completely evacuated despite indoor air quality standards being achieved and sustained throughout residential and publicly accessible areas since mid-July. According to RR Publication 800, no additional source removal is necessary for the Community Within the Corridor – East Block building in order to move forward with the commissioning process, preparation of an operations and maintenance plan, and occupancy, however additional source removal has been proposed as an additional measure to ensure that the Vapor Mitigation System is operating in a manner that is protective of the public health and environment.

It should be noted that many families have been displaced with no comparable replacement affordable housing options available for nearly six months. The iterative WDNR review process of 40 to 60 days has imposed further hardships on the Milwaukee area affordable housing market by slowing the pace of work to reopen a desperately needed housing resource. We request that WDNR make a collaborative effort to review our plan in a truly expedited manner so that we can move forward with additional actions and allow for safe occupancy as soon as possible.

Next Steps

Please note the following requests made to WDNR on behalf of CWC:

- We request that WDNR approve the "contained-out" decision for TCE contaminated soils with concentrations less than 8.8 mg/kg as soon as possible in order to begin excavation next week.
- We request that if WDNR has any feedback or comments as we move forward with sampling in areas with documented TCE in soil greater than 8.8 mg/kg that they notify us as soon as possible.
- For a project of this magnitude and complexity, we request to schedule a meeting with WDNR on a monthly basis to move the project forward.

In the meantime, we are planning to commence with further actions on an interim basis under NR 708 including additional sampling and source removal in areas with TCE concentrations in soil less than 8.8 mg/kg subject to obtaining approval of the "contained-out" decision. Having said that, we would like for excavation to commence next week in all areas except for the areas near HS-5 and Stairwell 4 where TCE detections in soil were 220 mg/kg and 12 mg/kg, respectively.

Should you have any questions or require any additional information, please feel free to contact us at 262-821-1171. We appreciate your cooperation and support in moving this project forward.

Sincerely,

K. SINGH & ASSOCIATES, INC.

Robert T. Reineke, PE
Senior Engineer

Pratap N. Singh, Ph.D., PE
Principal Engineer

cc: Shane LaFave / Community Within the Corridor
Robert Fedorchak, PE / Patriot Engineering
Pam Mylotta, PG / WDNR
Jane Pfeiffer / WDNR

Attachments: Figures
Table
Appendix A – Soil Sample Locations and Historic Tabulated Test Results

Figures

East Building Level 1

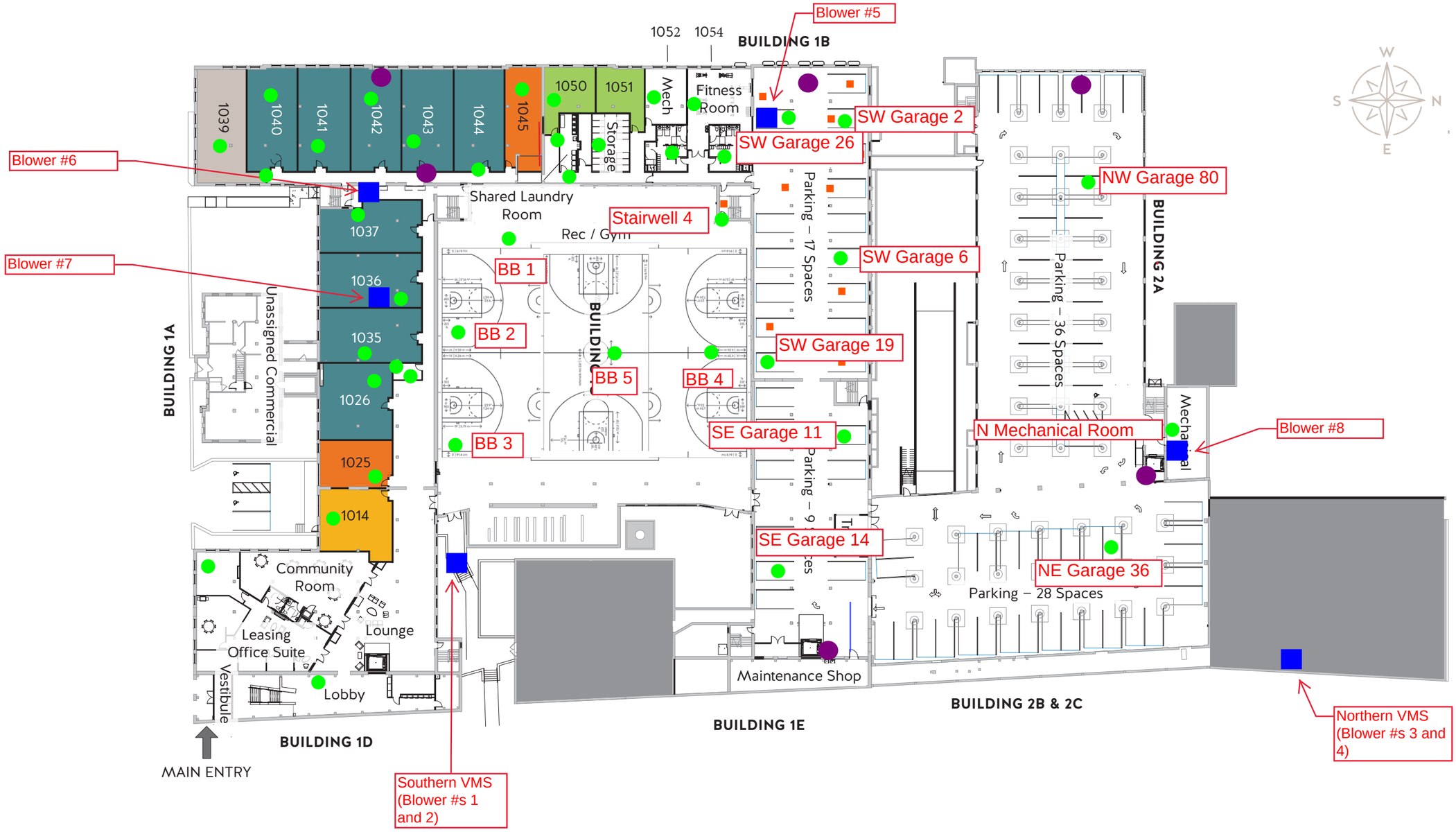


Figure 1. Locations of Access Points, Additional Sumps and Drains, Blowers for Vapor Mitigation System, and Vapor Pins

GENERAL FLOOR PLAN NOTES TO CONTRACTOR

1. THIS DRAWING IS FURTHER SUPPORTED BY INFORMATION CONTAINED IN THE SPECIFICATION MANUAL.
2. DO NOT SCALE DRAWINGS. CONTRACTOR TO VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO COMMENCING CONSTRUCTION.
3. FINISH FLOOR ELEVATIONS ARE TO THE TOP OF THE FINISHED FLOOR MATERIAL UNLESS OTHERWISE NOTED.
4. CONTRACTORS SHALL JOINTLY PROVIDE AND INSTALL ALL STIFFENERS, BRACING, BACKING PLATES, WALL BLOCKING AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF CASEWORK, TOILET ACCESSORIES, PARTITIONS, MILLWORK, AND ALL WORK MOUNTED OR SUSPENDED BY ALL TRADES.
5. SEE SHEET A002 FOR PARTITION TYPES AND DETAILS.
6. DIMENSIONS AT EXTERIOR WALLS ARE TO STRUCTURAL WALL ONLY AND DO NOT INCLUDE FINISHES. DIMENSIONS AT EXTERIOR WALLS ARE TO STRUCTURAL WALL ONLY AND DO NOT INCLUDE FINISHES.

GENERAL INFORMATION NOTES TO CONTRACTOR

1. THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE INTENT OF THE PROJECT, BUT DO NOT NECESSARILY INDICATE ALL MATERIALS OR METHODS OF CONSTRUCTION. ALL CONTRACTORS ARE RESPONSIBLE TO REVIEW THE DOCUMENTS THOROUGHLY, AND FOR PROVIDING ALL MATERIALS AND MEANS OF CONSTRUCTION NECESSARY FOR THE COMPLETION OF THE WORK IN ACCORDANCE WITH THE INTENT OF THE DRAWINGS.
2. ALL WORK OF ALL TRADES, SHALL BE COMPLETED IN ACCORDANCE WITH ALL LOCAL GOVERNING CODES AND ORDINANCES.
3. EACH CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE OWNER, THE OWNER'S OTHER CONTRACTORS, AND ALL OTHERS AT THE SITE.
4. EACH CONTRACTOR IS TO OBTAIN AND PAY FOR PERMITS, LICENSES, FEES, ETC. AS REQUIRED FOR THE COMPLETION OF THEIR PORTION OF WORK.
5. EACH CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE TO SATISFY THEIR EXECUTION OF THE WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT. NEITHER THE OWNER NOR THE ARCHITECT ASSUMES RESPONSIBILITY FOR CONDITIONS OR DIMENSIONS SHOWN AS EXISTING.
6. IF ANY CONTRACTOR OBSERVES THAT ANY OF THE CONTRACT DOCUMENTS ARE AT VARIANCE WITH APPLICABLE LAWS, STATUES, BUILDING CODES, OR ORDINANCES, THEY SHALL PROMPTLY NOTIFY THE ARCHITECT.
7. ALL HOLES FOR PLUMBING, ELECTRICAL, HVAC, FIRE PROTECTION CONDUIT, PIPING, OR DUCTWORK ARE TO BE REPAIRED BY THE ASSOCIATED TRADE.
8. ALL TRADES SHALL TAKE CARE TO MAKE HOLES ONLY AS LARGE AS NECESSARY. ALL HOLES SHALL BE NEATLY CUT. DO NOT PUNCH OR POUND HOLES IN WALLS OR ROOF DECK.
9. ANY HOLES OR PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE APPROPRIATELY FIRE STOPPED, DAMPENED, OR SEALED AS REQUIRED BY CODE.
10. EACH CONTRACTOR SHALL INCLUDE NECESSARY DEMOLITION AND REMOVAL OF ALL MATERIAL AS REQUIRED TO PERFORM THEIR WORK.
11. REMOVAL OF ALL HAZARDOUS CONTAINING MATERIALS IS THE SOLE RESPONSIBILITY OF THE OWNER. SHOULD ANY MATERIALS BE ENCOUNTERED DURING ANY OF THE CONSTRUCTION PHASES CONTAINING, OR SUSPECTED TO BE HAZARDOUS: CONTRACTOR SHALL STOP WORK IMMEDIATELY AND NOTIFY OWNER AND ARCHITECT.
12. DO NOT SCALE DRAWINGS.
13. EACH CONTRACTOR SHALL PATCH, LEVEL, AND PREPARE ALL WALLS AND FLOORS AS SCHEDULED AND REQUIRED TO RECEIVE NEW FINISHES.

NEW WORK PLAN LEGEND

- EXISTING, TO REMAIN
- MASONRY PARTITION, SEE PARTITION TYPES FOR DETAILS
- METAL STUD PARTITION, SEE PARTITION TYPES FOR DETAILS TYPE A3 -A (U.N.O.)
- METAL STUD PARTITION, SEE PARTITION TYPES FOR DETAILS TYPE A6 1HR - A (U.N.O.)
- X — NEW WORK KEY NOTE (GENERAL TO ROOM)

Excavation to 4 Feet

Excavation to 2 Feet

Perforated 4-Inch Diameter Pipe

Estimated Tunnel Extents

NEW WORK PLAN KEY NOTES - 1/8" PLANS

SEE PROJECT GENERAL CONDITIONS, GENERAL INFORMATION ON SHEET A001 AND SELECTIVE DEMOLITION, CUTTING AND PATCHING SPECIFICATIONS THAT ARE USED IN ASSOCIATION WITH THESE NOTES.

NEW WORK PLAN KEY NOTES APPLY TO ALL NEW WORK DRAWINGS AND MAY NOT BE USED ON EVERY SHEET.

001	SEE UNIT 1025 ENLARGED PLAN.
002	SEE UNIT 1026 ENLARGED PLAN.
003	SEE UNIT 1035 ENLARGED PLAN. UNIT MAY BE MIRRORED.
004	SEE UNIT 1037 ENLARGED PLAN.
005	SEE UNIT 1039 ENLARGED PLAN.
006	SEE UNIT 1040 ENLARGED PLAN.
007	SEE UNIT 1041 ENLARGED PLAN.
008	SEE UNIT 1042 ENLARGED PLAN.
009	EXISTING HISTORIC SLIDING FIRE DOOR ASSEMBLY TO REMAIN. SECURE SLIDING DOOR IN A PARTIALLY CLOSED POSITION WITH METAL Z-BRACKETS. SEE PLAN FOR POSITION. SEE SALVAGED DOOR SCHEDULE FOR MORE INFO.
010	SEE UNIT 1045 ENLARGED PLAN.
011	SEE UNIT 1050 ENLARGED PLAN. UNIT IS MIRRORED.
012	SEE UNIT 2014 ENLARGED PLAN.
013	SEE UNIT 2015 ENLARGED PLAN.
014	SEE UNIT 2016 ENLARGED PLAN.
015	SEE UNIT 2017 ENLARGED PLAN.
016	SEE UNIT 2023 ENLARGED PLAN.
017	SEE UNIT 2061 ENLARGED PLAN.
018	SEE UNIT 2063 ENLARGED PLAN.
019	SEE UNIT 2067 ENLARGED PLAN. UNIT MAY BE MIRRORED.
020	SEE UNIT 2068 ENLARGED PLAN. UNIT MAY BE MIRRORED.
021	SEE UNIT 2070 ENLARGED PLAN. UNIT TYPE IS A STUDIO ON LEVEL 03.
022	SEE UNIT 2071 ENLARGED PLAN.
023	SEE UNIT 2077 ENLARGED PLAN.
024	SEE UNIT 2079 ENLARGED PLAN.
025	SEE UNIT 2082 ENLARGED PLAN. FOR UNIT 3082: SEE UNIT 2082 ENLARGED PLAN.
026	SEE UNIT 2092 ENLARGED PLAN.
027	SEE UNIT 2093 ENLARGED PLAN.
028	SEE UNIT 2094 ENLARGED PLAN. UNIT MAY BE MIRRORED.

NEW WORK PLAN KEY NOTES - 1/8" PLANS

SEE PROJECT GENERAL CONDITIONS, GENERAL INFORMATION ON SHEET A001 AND SELECTIVE DEMOLITION, CUTTING AND PATCHING SPECIFICATIONS THAT ARE USED IN ASSOCIATION WITH THESE NOTES.

NEW WORK PLAN KEY NOTES APPLY TO ALL NEW WORK DRAWINGS AND MAY NOT BE USED ON EVERY SHEET.

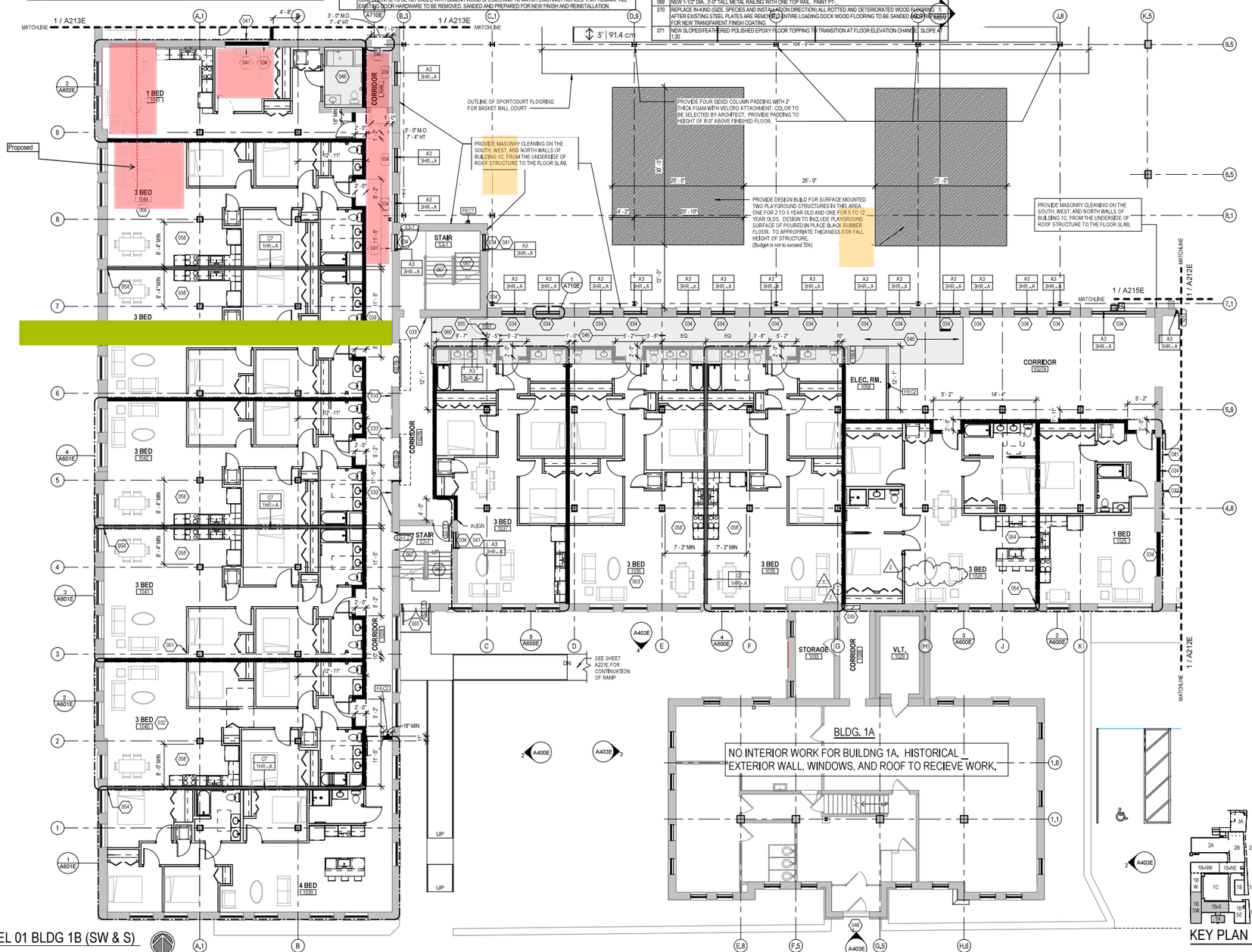
029	SEE UNIT 2095 ENLARGED PLAN. UNIT MAY BE MIRRORED.
030	SEE UNIT 2111 ENLARGED PLAN. FOR UNIT 3110: SEE UNIT 2110.
031	SEE UNIT 2117 ENLARGED PLAN.
032	UNIT TO INCLUDE AUDIO AND VISUAL ALARM DEVICES FOR THE HEARING AND VISUALLY IMPAIRED. COORDINATE LOCATION WITH ELECTRICAL DRAWINGS
033	EXISTING HISTORIC SLIDING FIRE DOOR ASSEMBLY TO REMAIN IN PLACE. SECURE SLIDING DOOR IN A FULLY OPEN POSITION WITH METAL Z-BRACKETS. SEE SALVAGED DOOR SCHEDULE FOR MORE INFO.
034	NEW GYPSUM BOARD INFILL WALL ASSEMBLY AT EXISTING OPENING. SEE 1A710E
035	EXISTING HISTORIC WINDOW ASSEMBLY TO REMAIN. PREPARE EXISTING WINDOW FOR NEW PAINT FINISH. REPLACE DAMAGED OR MISSING GLAZING TO MATCH EXISTING.
036	NEW CMU INFILL WALL ASSEMBLY AT EXISTING OPENING. SEE 3A710E
037	NEW METAL PANEL INFILL WALL ASSEMBLY AT EXISTING OPENING. SEE 1A510E
038	NEW BRICK AND CMU INFILL AT EXISTING WALL OPENING.
039	NEW BRICK MASONRY INFILL WALL ASSEMBLY AT EXISTING OPENING. SEE 3A710E
040	EXISTING CONCRETE FLOOR WITH NEW WATERPROOF TRAFFIC COATING
041	EXISTING HISTORIC SLIDING FIRE DOOR ASSEMBLY TO REMAIN. SECURE SLIDING DOOR IN A CLOSED POSITION WITH METAL Z-BRACKETS. SEE SALVAGED DOOR SCHEDULE FOR MORE INFO.
042	NEW BRICK MASONRY AND GYPSUM BOARD INFILL WALL ASSEMBLY AT EXISTING OPENING. SEE 5A710E
043	NEW CMU AND GYPSUM BOARD INFILL WALL ASSEMBLY AT EXISTING OPENING. SEE 6A710E
044	NEW WOOD FLOOR INFILL. NEW WOOD FRAMING TO MATCH EXISTING. NEW WOOD SUBFLOORING TO MATCH DIMENSIONS OF EXISTING AND TO RUN IN THE SAME DIRECTIONAS EXISTING. REINSTALL EXISTING SALVAGED FINISH FLOORING, RUN IN THE SAME DIRECTION AS EXISTING. SEE STRUCTURAL FOR DETAILING.
045	NEW CONCRETE CURB AT METAL DECK INFILL WITH SPRAY-APPLIED FIRE RESISTIVE MATERIAL AT NEW STEEL BEAMS AND ANGLES TO MAINTAIN FLOOR ASSEMBLY FIRE RATING. SEE OVERVIEW FLOOR PLANS FOR REQUIRED FLOOR ASSEMBLY FIRE RATINGS. SEE STRUCTURAL FOR DETAIL.
046	NEW CONCRETE FLOOR INFILL. SEE STRUCTURAL
047	NEW PREFINISHED METAL MECHANICAL LOUVER IN EXISTING MASONRY OPENING
048	ENTIRE EXISTING HISTORIC WOOD DOOR ASSEMBLY INCLUDING ALL EXTERIOR AND INTERIOR WOOD TRIM COMPONENTS TO REMAIN. ALL WOOD COMPONENTS TO BE SANDED, REPLACED IN KIND AND PREPARED FOR NEW FINISHES THAT MATCH EXISTING FINISHES. ANY MISSING WOOD COMPONENTS (DOOR ASSEMBLY, INTERIOR/EXTERIOR TRIM COMPONENTS) TO BE REPLACED WITH SIMILAR WOOD SPECIES AND TO MATCH EXISTING PROFILES THAT REMAIN. ALL EXISTING DOOR HARDWARE TO BE REMOVED, SANDED AND PREPARED FOR NEW FINISH AND REINSTALLATION.

NEW WORK PLAN KEY NOTES - 1/8" PLANS(2)

SEE PROJECT GENERAL CONDITIONS, GENERAL INFORMATION ON SHEET A001 AND SELECTIVE DEMOLITION, CUTTING AND PATCHING SPECIFICATIONS THAT ARE USED IN ASSOCIATION WITH THESE NOTES.

NEW WORK PLAN KEY NOTES APPLY TO ALL NEW WORK DRAWINGS AND MAY NOT BE USED ON EVERY SHEET.

049	EXISTING HISTORIC WINDOW ASSEMBLY TO REMAIN. CLEAN/SCRAPE/PREPARE EXISTING WINDOW FRAMES TO RECEIVE NEW PAINT. EXISTING GLAZING TO BE REMOVED.
050	REPLACE ALL BROKEN/CRACKED AND MISSING GLASS LITES AT HISTORIC LIGHT MONITOR.
051	NEW GYPSUM BOARD INFILL WALL ASSEMBLY AT EXISTING OPENING TO BE 3 HOUR FIRE RATED. SEE 10A710E SIM.
052	EXISTING HISTORIC WINDOW ASSEMBLY TO REMAIN. PREPARE EXISTING WINDOW FOR NEW PAINT FINISH. EXISTING GLAZING TO REMAIN. NEW GLAZING NOT REQUIRED.
053	EXISTING HISTORIC DOOR ASSEMBLY TO REMAIN. PREPARE EXISTING DOOR ASSEMBLY FOR NEW PAINT FINISH.
054	ALIGN DEMISING WALL WITH EDGE OF HISTORIC MASONRY OPENING.
055	ALIGN CENTER OF WALL WITH CENTERLINE OF HISTORIC COLUMN.
056	AT LEVEL 02: ALIGN EDGE OF DEMISING WALL WITH EDGE OF HISTORIC CONCRETE DROP SLAB. AT LEVEL 03: ALIGN EDGE OF DEMISING WALL WITH EDGE OF HISTORIC CONCRETE DROP SLAB AS IT OCCURS ON THE LEVEL BELOW.
057	ALIGN CENTERLINE OF WALL WITH CENTERLINE OF WINDOW MULLION.
058	CRITICAL KITCHEN CLEARANCES AT HISTORIC COLUMN. VERIFY BEFORE FRAMING DEMISING WALLS AND REPORT TO ARCHITECT IF THERE ARE ANY ISSUES.
059	EXISTING HISTORIC DOOR ASSEMBLY TO REMAIN. PERMANENTLY SECURE BOTH DOORS IN CLOSED POSITION. PREPARE EXISTING DOOR ASSEMBLY FOR NEW PAINT FINISH.
060	EXISTING HISTORIC OPENING AT REMOVED WINDOW. SEE DEMOLITION PLANS FOR ADDITIONAL INFORMATION.
060	NEW CMU WALL TO CLOSE OFF FILLED-IN UNDERGROUND TUNNEL. SEE STRUCTURAL
061	EXTEND WALL TO DEMISING WALL, TYP. SHIFT ANY PLUMBING FIXTURES OR CLOSETS AGAINST DEMISING WALL.
062	EXISTING TRANSOM WINDOW ABOVE TO REMAIN. PREPARE SURFACES FOR NEW PAINT. EXISTING DOOR FRAME TO REMAIN. PREPARE SURFACES FOR NEW PAINT
063	NEW CONCRETE AREA WELL WALLS. SEE STRUCTURAL
064	BUILD WALL TYPE IN LINT DEMISING WALL WITH RESILIENT CHANNEL ON THIS SIDE.
065	NEW CONCRETE STOOP WITH FROST WALLS. SEE STRUCTURAL
066	NEW BRICK MASONRY WALL REBUILT WITH SALVAGED AND NEW BRICK TO MATCH EXISTING. REBUILT WALL TO MATCH FEATURES OF EXISTING, REMOVED BRICK MASONRY WALL INCLUDING, BUT NOT LIMITED TO WIDTH/DEPTH OF REMOVED WALL, HEIGHT OF REMOVED WALL, AND ALL ARCHES ABOVE EXISTING WINDOW OPENINGS.
067	EXISTING HANDRAILS TO REMAIN. REFASTEN EXISTING HANDRAILS TO EXISTING WALLS IF LOOSE OR FAILING. PREPARE EXISTING HANDRAILS FOR NEW PT.
068	NEW 4" PAINTED FLOOR STRIPING LEADING TO EXIT STAIR
069	NEW 1-1/2" DIA., 3'-0" TALL METAL RAILING WITH ONE TOP RAIL. PAINT PT.
070	REPLACE IN-KIND (SIZE, SPECIES AND INSTALLATION DIRECTION) ALL ROTTED AND DETERIORATED WOOD FLOORING AFTER EXISTING STEEL PLATES ARE REMOVED. ENTIRE LOADING DOCK WOOD FLOORING TO BE SANDED AND PREPARED FOR NEW TRANSPARENT FINISH COATING
071	NEW SLOPED/FEATHERED POLISHED EPOXY FLOOR TOPPING TO TRANSITION AT FLOOR ELEVATION CHANGE. SLOPE AT 1:20



1 NEW WORK PLAN - BASEMENT, BLDG 1A & LEVEL 01 BLDG 1B (SW & S)
Scale 1/8" = 1'-0"
0' 2' 4' 8' 12'

KEY PLAN

T 414.220.9640
751 N Jefferson St.
Suite 200
Milwaukee, WI 53202
CONSULTANTS

COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
3100 W. Center Street
Milwaukee, WI 53210

SHEET TITLE: Figure 2. Proposed Areas of Additional Excavations (1B-SW and 1C)

REVISIONS
1 10/09/20 Addendum #1
2 10/13/20 Addendum #2

SCALE	VARIES
PROJECT NUMBER	200102
SET TYPE	CONSTRUCTION DOCUMENTS
DATE ISSUED	09/25/20
SHEET NUMBER	A211E

GENERAL FLOOR PLAN NOTES TO CONTRACTOR

1. THIS DRAWING IS FURTHER SUPPORTED BY INFORMATION CONTAINED IN THE SPECIFICATION MANUAL.
2. DO NOT SCALE DRAWINGS. CONTRACTOR TO VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO COMMENCING CONSTRUCTION.
3. FINISH FLOOR ELEVATIONS ARE TO THE TOP OF THE FINISHED FLOOR MATERIAL UNLESS OTHERWISE NOTED.
4. CONTRACTORS SHALL JOINTLY PROVIDE AND INSTALL ALL STIFFENERS, BRACING, BACKING PLATES, WALL BLOCKING AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF CASEWORK, TOILET ACCESSORIES, PARTITIONS, MILLWORK, AND ALL WORK MOUNTED OR SUSPENDED BY ALL TRADES.
5. SEE SHEET A002 FOR PARTITION TYPES AND DETAILS.
6. DIMENSIONS AT EXTERIOR WALLS ARE TO STRUCTURAL WALL ONLY AND DO NOT INCLUDE FINISHES. DIMENSIONS AT EXTERIOR WALLS ARE TO STRUCTURAL WALL ONLY AND DO NOT INCLUDE FINISHES.

GENERAL INFORMATION NOTES TO CONTRACTOR

1. THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE INTENT OF THE PROJECT, BUT DO NOT NECESSARILY INDICATE ALL MATERIALS OR METHODS OF CONSTRUCTION. ALL CONTRACTORS ARE RESPONSIBLE TO REVIEW THE DOCUMENTS THOROUGHLY, AND FOR PROVIDING ALL MATERIALS AND MEANS OF CONSTRUCTION NECESSARY FOR THE COMPLETION OF THE WORK IN ACCORDANCE WITH THE INTENT OF THE DRAWINGS.
2. ALL WORK OF ALL TRADES, SHALL BE COMPLETED IN ACCORDANCE WITH ALL LOCAL GOVERNING CODES AND ORDINANCES.
3. EACH CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE OWNER, THE OWNER'S OTHER CONTRACTORS, AND ALL OTHERS AT THE SITE.
4. EACH CONTRACTOR IS TO OBTAIN AND PAY FOR PERMITS, LICENSES, FEES, ETC. AS REQUIRED FOR THE COMPLETION OF THEIR PORTION OF WORK.
5. EACH CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE TO SATISFY THEIR EXECUTION OF THE WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT. NEITHER THE OWNER NOR THE ARCHITECT ASSUMES RESPONSIBILITY FOR CONDITIONS OR DIMENSIONS SHOWN AS EXISTING.
6. IF ANY CONTRACTOR OBSERVES THAT ANY OF THE CONTRACT DOCUMENTS ARE AT VARIANCE WITH APPLICABLE LAWS, STATUES, BUILDING CODES, OR ORDINANCES, THEY SHALL PROMPTLY NOTIFY THE ARCHITECT.
7. ALL HOLES FOR PLUMBING, ELECTRICAL, HVAC, FIRE PROTECTION CONDUIT, PIPING, OR DUCTWORK ARE TO BE REPAIRED BY THE ASSOCIATED TRADE.
8. ALL TRADES SHALL TAKE CARE TO MAKE HOLES ONLY AS LARGE AS NECESSARY. ALL HOLES SHALL BE NEATLY CUT. DO NOT PUNCH OR POUND HOLES IN WALLS OR ROOF DECK.
9. ANY HOLES OR PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE APPROPRIATELY FIRE STOPPED, DAMPENED, OR SEALED AS REQUIRED BY CODE.
10. EACH CONTRACTOR SHALL INCLUDE NECESSARY DEMOLITION AND REMOVAL OF ALL MATERIAL AS REQUIRED TO PERFORM THEIR WORK.
11. REMOVAL OF ALL HAZARDOUS CONTAINING MATERIALS IS THE SOLE RESPONSIBILITY OF THE OWNER. SHOULD ANY MATERIALS BE ENCOUNTERED DURING ANY OF THE CONSTRUCTION PHASES CONTAINING, OR SUSPECTED TO BE HAZARDOUS: CONTRACTOR SHALL STOP WORK IMMEDIATELY AND NOTIFY OWNER AND ARCHITECT.
12. DO NOT SCALE DRAWINGS.
13. EACH CONTRACTOR SHALL PATCH, LEVEL, AND PREPARE ALL WALLS AND FLOORS AS SCHEDULED AND REQUIRED TO RECEIVE NEW FINISHES.

NEW WORK PLAN LEGEND

- EXISTING, TO REMAIN
- MASONRY PARTITION, SEE PARTITION TYPES FOR DETAILS
- METAL STUD PARTITION, SEE PARTITION TYPES FOR DETAILS TYPE A3 -A — U.N.O.
- METAL STUD PARTITION, SEE PARTITION TYPES FOR DETAILS TYPE A6 1HR.-A — U.N.O.
- (X) NEW WORK KEY NOTE (GENERAL TO ROOM)

Excavation to 4 Feet

Excavation to 2 Feet

Perforated 4-inch Diameter Pipe

NEW WORK PLAN KEY NOTES - 1/8" PLANS

SEE PROJECT GENERAL CONDITIONS, GENERAL INFORMATION ON SHEET A001 AND SELECTIVE DEMOLITION, CUTTING AND PATCHING SPECIFICATIONS THAT ARE USED IN ASSOCIATION WITH THESE NOTES.

NEW WORK PLAN KEY NOTES APPLY TO ALL NEW WORK DRAWINGS AND MAY NOT BE USED ON EVERY SHEET.

001	SEE UNIT 1025 ENLARGED PLAN.
002	SEE UNIT 1026 ENLARGED PLAN.
003	SEE UNIT 1035 ENLARGED PLAN. UNIT MAY BE MIRRORED.
004	SEE UNIT 1037 ENLARGED PLAN.
005	SEE UNIT 1039 ENLARGED PLAN.
006	SEE UNIT 1040 ENLARGED PLAN.
007	SEE UNIT 1041 ENLARGED PLAN.
008	SEE UNIT 1042 ENLARGED PLAN.
009	EXISTING HISTORIC SLIDING FIRE DOOR ASSEMBLY TO REMAIN. SECURE SLIDING DOOR IN A PARTIALLY CLOSED POSITION WITH METAL Z-BRACKETS. SEE PLAN FOR POSITION. SEE SALVAGED DOOR SCHEDULE FOR MORE INFO.
010	SEE UNIT 1045 ENLARGED PLAN.
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019	SEE UNIT 2067 ENLARGED PLAN. UNIT MAY BE MIRRORED.
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024	SEE UNIT 2079 ENLARGED PLAN.
025	SEE UNIT 2082 ENLARGED PLAN. FOR UNIT 3082: SEE UNIT 2082 ENLARGED PLAN.
026	SEE UNIT 2092 ENLARGED PLAN.
027	SEE UNIT 2093 ENLARGED PLAN.
028	SEE UNIT 2094 ENLARGED PLAN. UNIT MAY BE MIRRORED.

NEW WORK PLAN KEY NOTES - 1/8" PLANS

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031	SEE UNIT 2117 ENLARGED PLAN.
032	UNIT TO INCLUDE AUDIO AND VISUAL ALARM DEVICES FOR THE HEARING AND VISUALLY IMPAIRED. COORDINATE LOCATION WITH ELECTRICAL DRAWINGS
033	EXISTING HISTORIC SLIDING FIRE DOOR ASSEMBLY TO REMAIN IN PLACE. SECURE SLIDING DOOR IN A FULLY OPEN POSITION WITH METAL Z-BRACKETS. SEE SALVAGED DOOR SCHEDULE FOR MORE INFO.
034	NEW GYPSUM BOARD INFILL WALL ASSEMBLY AT EXISTING OPENING. SEE 1/A710E
035	EXISTING HISTORIC WINDOW ASSEMBLY TO REMAIN. PREPARE EXISTING WINDOW FOR NEW PAINT FINISH. REPLACE DAMAGED OR MISSING GLAZING TO MATCH EXISTING.
036	NEW CMU INFILL WALL ASSEMBLY AT EXISTING OPENING. SEE 3/A710E
037	NEW METAL PANEL INFILL WALL ASSEMBLY AT EXISTING OPENING. SEE 1/A510E
038	NEW BRICK AND CMU INFILL AT EXISTING WALL OPENING.
039	NEW BRICK MASONRY INFILL WALL ASSEMBLY AT EXISTING OPENING. SEE 3/A710E
040	EXISTING CONCRETE FLOOR WITH NEW WATERPROOF TRAFFIC COATING
041	EXISTING HISTORIC SLIDING FIRE DOOR ASSEMBLY TO REMAIN. SECURE SLIDING DOOR IN A CLOSED POSITION WITH METAL Z-BRACKETS. SEE SALVAGED DOOR SCHEDULE FOR MORE INFO.
042	NEW BRICK MASONRY AND GYPSUM BOARD INFILL WALL ASSEMBLY AT EXISTING OPENING. SEE 5/A710E
043	NEW CMU AND GYPSUM BOARD INFILL WALL ASSEMBLY AT EXISTING OPENING. SEE 6/A710E
044	NEW WOOD FLOOR INFILL. NEW WOOD FRAMING TO MATCH EXISTING. NEW WOOD SUBFLOORING TO MATCH DIMENSIONS OF EXISTING AND TO RUN IN THE SAME DIRECTIONAS EXISTING. REINSTALL EXISTING SALVAGED FINISH FLOORING, RUN IN THE SAME DIRECTION AS EXISTING. SEE STRUCTURAL FOR DETAILING.
045	NEW CONCRETE ON METAL DECK INFILL WITH SPRAY-APPLIED FIRE RESISTIVE MATERIAL AT NEW STEEL BEAMS AND ANGLES TO MAINTAIN FLOOR ASSEMBLY FIRE RATING. SEE OVERVIEW FLOOR PLANS FOR REQUIRED FLOOR ASSEMBLY FIRE RATINGS. SEE STRUCTURAL FOR DETAIL
046	NEW CONCRETE FLOOR INFILL. SEE STRUCTURAL
047	NEW PREFINISHED METAL MECHANICAL LOUVER IN EXISTING MASONRY OPENING
048	ENTIRE EXISTING HISTORIC WOOD DOOR ASSEMBLY INCLUDING ALL EXTERIOR AND INTERIOR WOOD TRIM COMPONENTS TO REMAIN. ALL WOOD COMPONENTS TO BE SANDED, REPLACED IN KIND AND PREPARED FOR NEW FINISHES THAT MATCH EXISTING FINISHES. ANY MISSING WOOD COMPONENTS (DOOR ASSEMBLY, INTERIOR/EXTERIOR TRIM COMPONENTS) TO BE REPLACED WITH SIMILAR WOOD SPECIES AND TO MATCH EXISTING PROFILES THAT REMAIN. ALL EXISTING DOOR HARDWARE TO BE REMOVED, SANDED AND PREPARED FOR NEW FINISH AND REINSTALLATION.

NEW WORK PLAN KEY NOTES - 1/8" PLANS(2)

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049	EXISTING HISTORIC WINDOW ASSEMBLY TO REMAIN. CLEAN/SCRAPE/PREPARE EXISTING WINDOW FRAMES TO RECEIVE NEW PAINT. EXISTING GLAZING TO BE REMOVED.
050	REPLACE ALL BROKEN/CRACKED AND MISSING GLASS LITES AT HISTORIC LIGHT MONITOR
051	NEW GYPSUM BOARD INFILL WALL ASSEMBLY AT EXISTING OPENING TO BE 3 HOUR FIRE RATED, SEE 10/A710E SIM.
052	EXISTING HISTORIC WINDOW ASSEMBLY TO REMAIN. PREPARE EXISTING WINDOW FOR NEW PAINT FINISH. EXISTING GLAZING TO REMAIN. NEW GLAZING NOT REQUIRED.
053	EXISTING HISTORIC DOOR ASSEMBLY TO REMAIN. PREPARE EXISTING DOOR ASSEMBLY FOR NEW PAINT FINISH.
054	ALIGN DEMISING WALL WITH EDGE OF HISTORIC MASONRY OPENING.
055	ALIGN CENTER OF WALL WITH CENTERLINE OF HISTORIC COLUMN.
056	AT LEVEL 02: ALIGN EDGE OF DEMISING WALL WITH EDGE OF HISTORIC CONCRETE DROP SLAB. AT LEVEL 03: ALIGN EDGE OF DEMISING WALL WITH EDGE OF HISTORIC CONCRETE DROP SLAB AS IT OCCURS ON THE LEVEL BELOW.
057	ALIGN CENTERLINE OF WALL WITH CENTERLINE OF WINDOW MULLION.
058	CRITICAL KITCHEN CLEARANCES AT HISTORIC COLUMN. VERIFY BEFORE FRAMING DEMISING WALLS AND REPORT TO ARCHITECT IF THERE ARE ANY ISSUES.
059	EXISTING HISTORIC DOOR ASSEMBLY TO REMAIN. PERMANENTLY SECURE BOTH DOORS IN CLOSED POSITION. PREPARE EXISTING DOOR ASSEMBLY FOR NEW PAINT FINISH.
060	EXISTING HISTORIC OPENING AT REMOVED WINDOW. SEE DEMOLITION PLANS FOR ADDITIONAL INFORMATION.
060	NEW CMU WALL TO CLOSE OFF FILLED-IN UNDERGROUND TUNNEL. SEE STRUCTURAL
061	EXTEND WALL TO DEMISING WALL. TYP. SHIFT ANY PLUMBING FIXTURES OR CLOSETS AGAINST DEMISING WALL.
062	EXISTING TRANSOM WINDOW ABOVE TO REMAIN. PREPARE SURFACES FOR NEW PAINT. EXISTING DOOR FRAME TO REMAIN. PREPARE SURFACES FOR NEW PAINT
063	NEW CONCRETE AREA WELL WALLS. SEE STRUCTURAL
064	BUILD WALL TYPE PU UNIT DEMISING WALL WITH RESILIENT CHANNEL ON THIS SIDE.
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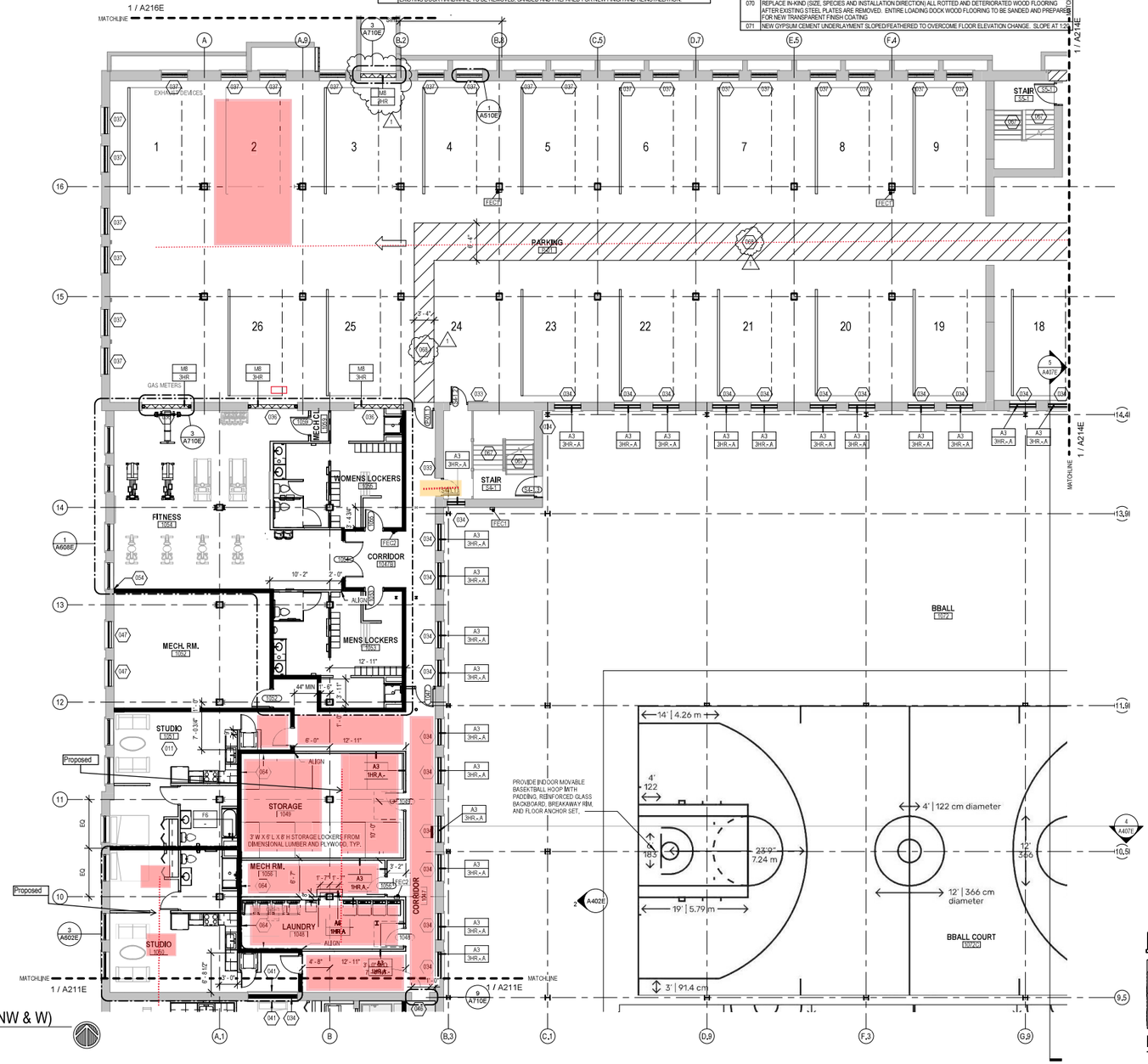
066	NEW BRICK MASONRY WALL. REBUILT WITH SALVAGED AND NEW BRICK TO MATCH EXISTING. REBUILT WALL TO MATCH FEATURES OF EXISTING. REMOVED BRICK MASONRY WALL INCLUDING, BUT NOT LIMITED TO WIDTH/DEPTH OF REMOVED WALL, HEIGHT OF REMOVED WALL, AND ALL ARCHES ABOVE EXISTING WINDOW OPENINGS.
067	EXISTING HANDRAILS TO REMAIN. REFASTEN EXISTING HANDRAILS TO EXISTING WALLS IF LOOSE OR FAILING. PREPARE EXISTING HANDRAILS FOR NEW PT-.
068	NEW 4" PAINTED FLOOR STRIPING LEADING TO EXIT STAIR
069	NEW 1-1/2" DIA., 3'-0" TALL METAL RAILING WITH ONE TOP RAIL. PAINT PT-.
070	REPLACE IN-KIND (SIZE, SPECIES AND INSTALLATION DIRECTION) ALL ROTTED AND DETERIORATED WOOD FLOORING AFTER EXISTING STEEL PLATES ARE REMOVED. ENTIRE LOADING DOCK WOOD FLOORING TO BE SANDED AND PREPARED FOR NEW TRANSPARENT FINISH COATING
071	NEW GYPSUM CEMENT UNDERLAYMENT SLOPED/FEATHERED TO OVERCOME FLOOR ELEVATION CHANGE. SLOPE AT 1:20



1 NEW WORK PLAN - LEVEL 01, BLDG 1B (NW & W)
Scale: 1/8" = 1'-0"
0' 2' 4' 8' 12'

T 414.220.9640
751 N Jefferson St.
Suite 200
Milwaukee, WI 53202

CONSULTANTS

COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
3100 W. Center Street
Milwaukee, WI 53210

SHEET TITLE:
Figure 3. Proposed Areas of Additional Excavations (1B-W and 1B-NW)

REVISIONS:
1 10/09/20 Addendum #1

SCALE	VARIES
PROJECT NUMBER	200102
SET TYPE	CONSTRUCTION DOCUMENTS
DATE ISSUED	09/25/20
SHEET NUMBER	**A213E**

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NEW WORK PLAN KEY NOTES - 1/8" PLANS(2)

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066	NEW BRICK MASONRY WALL REBUILT WITH SALVAGED AND NEW BRICK TO MATCH EXISTING. REBUILT WALL TO MATCH FEATURES OF EXISTING. REMOVED BRICK MASONRY WALL INCLUDING, BUT NOT LIMITED TO WIDTH/DEPTH OF REMOVED WALL, HEIGHT OF REMOVED WALL, AND ALL ARCHES ABOVE EXISTING WINDOW OPENINGS.
067	EXISTING HANDRAILS TO REMAIN. REFASTEN EXISTING HANDRAILS TO EXISTING WALLS IF LOOSE OR FAILING. PREPARE EXISTING HANDRAILS FOR NEW PT-.
068	NEW 4" PAINTED FLOOR STRIPING LEADING TO EXIT STAIR
069	NEW 1-1/2" DIA., 3'-0" TALL METAL RAILING WITH ONE TOP RAIL. PAINT PT-.
070	REPLACE IN-KIND (SIZE, SPECIES AND INSTALLATION DIRECTION) ALL ROTTED AND DETERIORATED WOOD FLOORING AFTER EXISTING STEEL PLATES ARE REMOVED. ENTIRE LOADING DOCK WOOD FLOORING TO BE SANDED AND PREPARED FOR NEW TRANSPARENT FINISH COATING
071	NEW SLOPED/FEATHERED POLISHED EPOXY FLOOR TOPPING TO TRANSITION AT FLOOR ELEVATION CHANGE. SLOPE AT 1:20

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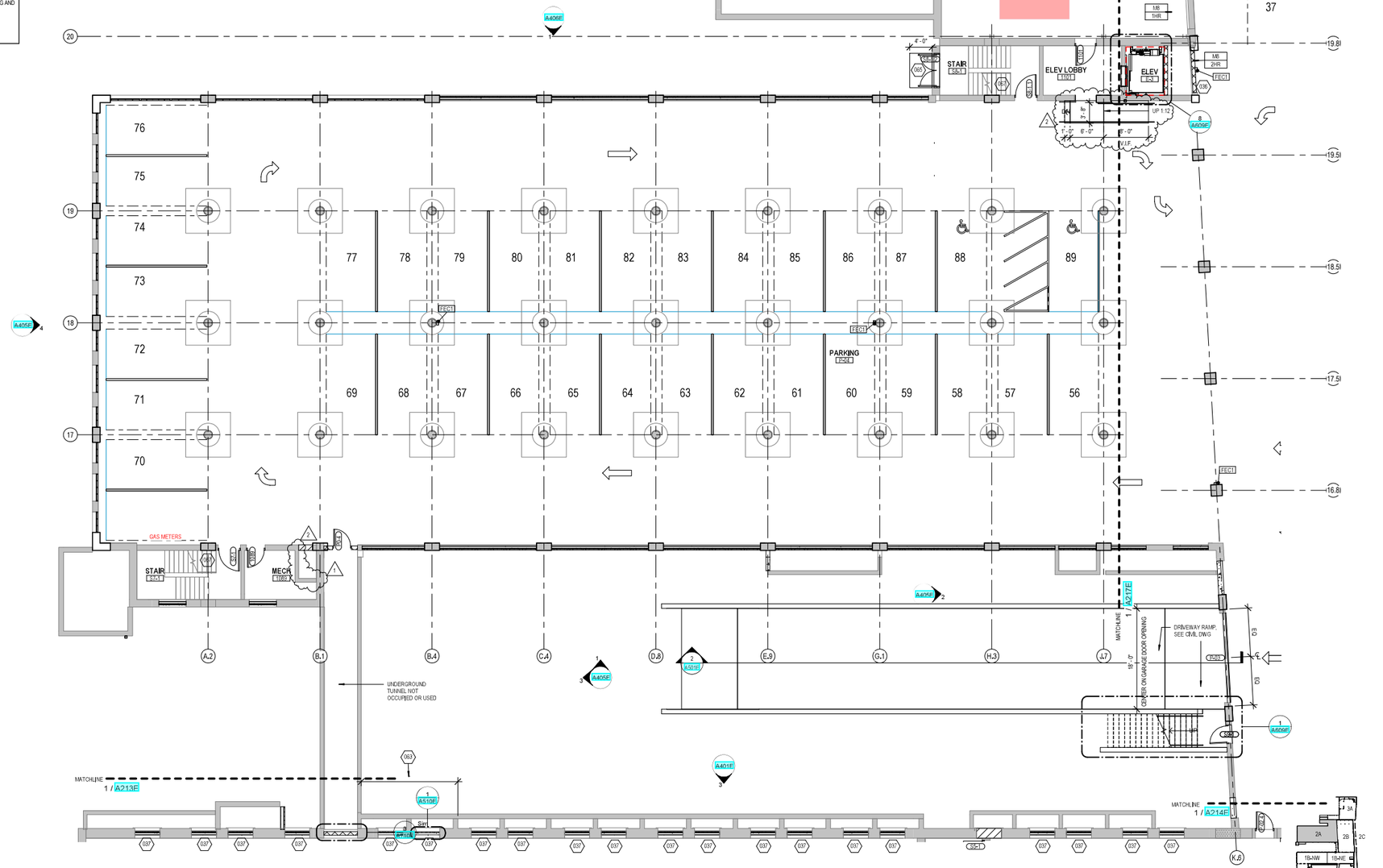
5. EACH CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE TO SATISFY THEIR EXECUTION OF THE WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT. NEITHER THE OWNER NOR THE ARCHITECT ASSUMES RESPONSIBILITY FOR CONDITIONS OR DIMENSIONS SHOWN AS EXISTING.
6. IF ANY CONTRACTOR OBSERVES THAT ANY OF THE CONTRACT DOCUMENTS ARE AT VARIANCE WITH APPLICABLE LAWS, STATUES, BUILDING CODES, OR ORDINANCES, THEY SHALL PROMPTLY NOTIFY THE ARCHITECT.
7. ALL HOLES FOR PLUMBING, ELECTRICAL, HVAC, FIRE PROTECTION CONDUIT, PIPING, OR DUCTWORK ARE TO BE REPAIRED BY THE ASSOCIATED TRADE.
8. ALL TRADES SHALL TAKE CARE TO MAKE HOLES ONLY AS LARGE AS NECESSARY. ALL HOLES SHALL BE NEATLY CUT. DO NOT PUNCH OR POUND HOLES IN WALLS OR ROOF DECK.
9. ANY HOLES OR PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE APPROPRIATELY FIRE STOPPED, DAMPENED, OR SEALED AS REQUIRED BY CODE.
10. EACH CONTRACTOR SHALL INCLUDE NECESSARY DEMOLITION AND REMOVAL OF ALL MATERIAL AS REQUIRED TO PERFORM THEIR WORK.
11. REMOVAL OF ALL HAZARDOUS CONTAINING MATERIALS IS THE SOLE RESPONSIBILITY OF THE OWNER. SHOULD ANY MATERIALS BE ENCOUNTERED DURING ANY OF THE CONSTRUCTION PHASES CONTAINING, OR SUSPECTED TO BE HAZARDOUS, CONTRACTOR SHALL STOP WORK IMMEDIATELY AND NOTIFY OWNER AND ARCHITECT.
12. DO NOT SCALE DRAWINGS.
13. EACH CONTRACTOR SHALL PATCH, LEVEL, AND PREPARE ALL WALLS AND FLOORS AS SCHEDULED AND REQUIRED TO RECEIVE NEW FINISHES.

NEW WORK PLAN LEGEND

- EXISTING, TO REMAIN
- MASONRY PARTITION, SEE PARTITION TYPES FOR DETAILS
- METAL STUD PARTITION, SEE PARTITION TYPES FOR DETAILS TYPE A3 -A U.N.O.
- METAL STUD PARTITION, SEE PARTITION TYPES FOR DETAILS TYPE A6 1HR-A U.N.O.
- (X) NEW WORK KEY NOTE (GENERAL TO ROOM)

Excavation to 4 Feet



1 NEW WORK PLAN - LEVEL 01, BLDG 2A
Scale: 1/8" = 1'-0"
0' 2' 4' 8' 12'

KEY PLAN

T 414.220.9640
751 N Jefferson St.
Suite 200
Milwaukee, WI 53202

CONSULTANTS

COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
3100 W. Center Street
Milwaukee, WI 53210

SHEET TITLE: Figure 4. Proposed Area of Additional Excavation (Northern Mechanical Room)

REVISIONS
1 10/09/20 Addendum #1
2 10/13/20 Addendum #2

SCALE	VARIES
PROJECT NUMBER	200102
SET TYPE	CONSTRUCTION DOCUMENTS
DATE ISSUED	09/25/20
SHEET NUMBER	A216E

GENERAL FLOOR PLAN NOTES TO CONTRACTOR

1. THIS DRAWING IS FURTHER SUPPORTED BY INFORMATION CONTAINED IN THE SPECIFICATION MANUAL.
2. DO NOT SCALE DRAWINGS. CONTRACTOR TO VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO COMMENCING CONSTRUCTION.
3. FINISH FLOOR ELEVATIONS ARE TO THE TOP OF THE FINISHED FLOOR MATERIAL UNLESS OTHERWISE NOTED.
4. CONTRACTORS SHALL JOINTLY PROVIDE AND INSTALL ALL STIFFENERS, BRACING, BACKING PLATES, WALL BLOCKING AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF CASEWORK, TOILET ACCESSORIES, PARTITIONS, MILLWORK, AND ALL WORK MOUNTED OR SUSPENDED BY ALL TRADES.
5. SEE SHEET A002 FOR PARTITION TYPES AND DETAILS.
6. DIMENSIONS AT EXTERIOR WALLS ARE TO STRUCTURAL WALL ONLY AND DO NOT INCLUDE FINISHES. DIMENSIONS AT EXTERIOR WALLS ARE TO STRUCTURAL WALL ONLY AND DO NOT INCLUDE FINISHES.

GENERAL INFORMATION NOTES TO CONTRACTOR

1. THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE INTENT OF THE PROJECT, BUT DO NOT NECESSARILY INDICATE ALL MATERIALS OR METHODS OF CONSTRUCTION. ALL CONTRACTORS ARE RESPONSIBLE TO REVIEW THE DOCUMENTS THOROUGHLY, AND FOR PROVIDING ALL MATERIALS AND MEANS OF CONSTRUCTION NECESSARY FOR THE COMPLETION OF THE WORK IN ACCORDANCE WITH THE INTENT OF THE DRAWINGS.
2. ALL WORK OF ALL TRADES SHALL BE COMPLETED IN ACCORDANCE WITH ALL LOCAL GOVERNING CODES AND ORDINANCES.
3. EACH CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE OWNER, THE OWNER'S OTHER CONTRACTORS, AND ALL OTHERS AT THE SITE.
4. EACH CONTRACTOR IS TO OBTAIN AND PAY FOR PERMITS, LICENSES, FEES, ETC. AS REQUIRED FOR THE COMPLETION OF THEIR PORTION OF WORK.
5. EACH CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE TO SATISFY THEIR EXECUTION OF THE WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT. NEITHER THE OWNER NOR THE ARCHITECT ASSUMES RESPONSIBILITY FOR CONDITIONS OR DIMENSIONS SHOWN AS EXISTING.
6. IF ANY CONTRACTOR OBSERVES THAT ANY OF THE CONTRACT DOCUMENTS ARE AT VARIANCE WITH APPLICABLE LAWS, STATUES, BUILDING CODES, OR ORDINANCES, THEY SHALL PROMPTLY NOTIFY THE ARCHITECT.
7. ALL HOLES FOR PLUMBING, ELECTRICAL, HVAC, FIRE PROTECTION CONDUIT, PIPING, OR DUCTWORK ARE TO BE REPAIRED BY THE ASSOCIATED TRADE.
8. ALL TRADES SHALL TAKE CARE TO MAKE HOLES ONLY AS LARGE AS NECESSARY. ALL HOLES SHALL BE NEATLY CUT. DO NOT PUNCH OR POUND HOLES IN WALLS OR ROOF DECK.
9. ANY HOLES OR PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE APPROPRIATELY FIRE STOPPED, DAMPENED, OR SEALED AS REQUIRED BY CODE.
10. EACH CONTRACTOR SHALL INCLUDE NECESSARY DEMOLITION AND REMOVAL OF ALL MATERIAL AS REQUIRED TO PERFORM THEIR WORK.
11. REMOVAL OF ALL HAZARDOUS CONTAINING MATERIALS IS THE SOLE RESPONSIBILITY OF THE OWNER, SHOULD ANY MATERIALS BE ENCOUNTERED DURING ANY OF THE CONSTRUCTION PHASES CONTAINING, OR SUSPECTED TO BE HAZARDOUS: CONTRACTOR SHALL STOP WORK IMMEDIATELY AND NOTIFY OWNER AND ARCHITECT.
12. DO NOT SCALE DRAWINGS.
13. EACH CONTRACTOR SHALL PATCH, LEVEL, AND PREPARE ALL WALLS AND FLOORS AS SCHEDULED AND REQUIRED TO RECEIVE NEW FINISHES.

NEW WORK PLAN LEGEND

- EXISTING, TO REMAIN
- MASONRY PARTITION, SEE PARTITION TYPES FOR DETAILS
- METAL STUD PARTITION. SEE PARTITION TYPES FOR DETAILS TYPE A3 -A — U.N.O.
- METAL STUD PARTITION, SEE PARTITION TYPES FOR DETAILS TYPE A6 1HR,-A — U.N.O.
- (X) NEW WORK KEY NOTE (GENERAL TO ROOM)

Soil Sample Location

NEW WORK PLAN KEY NOTES - 1/8" PLANS

SEE PROJECT GENERAL CONDITIONS, GENERAL INFORMATION ON SHEET A001 AND SELECTIVE DEMOLITION, CUTTING AND PATCHING SPECIFICATIONS THAT ARE USED IN ASSOCIATION WITH THESE NOTES.

NEW WORK PLAN KEY NOTES APPLY TO ALL NEW WORK DRAWINGS AND MAY NOT BE USED ON EVERY SHEET.

001	SEE UNIT 1025 ENLARGED PLAN.
002	SEE UNIT 1026 ENLARGED PLAN.
003	SEE UNIT 1035 ENLARGED PLAN. UNIT MAY BE MIRRORED.
004	SEE UNIT 1037 ENLARGED PLAN.
005	SEE UNIT 1039 ENLARGED PLAN.
006	SEE UNIT 1040 ENLARGED PLAN.
007	SEE UNIT 1041 ENLARGED PLAN.
008	SEE UNIT 1043 ENLARGED PLAN.
009	EXISTING HISTORIC SLIDING FIRE DOOR ASSEMBLY TO REMAIN. SECURE SLIDING DOOR IN A PARTIALLY CLOSED POSITION WITH METAL Z-BRACKETS. SEE PLAN FOR POSITION. SEE SALVAGED DOOR SCHEDULE FOR MORE INFO.
010	SEE UNIT 1045 ENLARGED PLAN.
011	SEE UNIT 1050 ENLARGED PLAN. UNIT IS MIRRORED.
012	SEE UNIT 2014 ENLARGED PLAN.
013	SEE UNIT 2015 ENLARGED PLAN.
014	SEE UNIT 2016 ENLARGED PLAN.
015	SEE UNIT 2017 ENLARGED PLAN.
016	SEE UNIT 2023 ENLARGED PLAN.
017	SEE UNIT 2061 ENLARGED PLAN.
018	SEE UNIT 2063 ENLARGED PLAN.
019	SEE UNIT 2067 ENLARGED PLAN. UNIT MAY BE MIRRORED.
020	SEE UNIT 2068 ENLARGED PLAN. UNIT MAY BE MIRRORED.
021	SEE UNIT 2070 ENLARGED PLAN. UNIT TYPE IS A STUDIO ON LEVEL 03.
022	SEE UNIT 2071 ENLARGED PLAN.
023	SEE UNIT 2077 ENLARGED PLAN.
024	SEE UNIT 2079 ENLARGED PLAN.
025	SEE UNIT 2082 ENLARGED PLAN. FOR UNIT 3082: SEE UNIT 2082 ENLARGED PLAN.
026	SEE UNIT 2092 ENLARGED PLAN.
027	SEE UNIT 2093 ENLARGED PLAN.
028	SEE UNIT 2094 ENLARGED PLAN. UNIT MAY BE MIRRORED.

NEW WORK PLAN KEY NOTES - 1/8" PLANS

SEE PROJECT GENERAL CONDITIONS, GENERAL INFORMATION ON SHEET A001 AND SELECTIVE DEMOLITION, CUTTING AND PATCHING SPECIFICATIONS THAT ARE USED IN ASSOCIATION WITH THESE NOTES.

NEW WORK PLAN KEY NOTES APPLY TO ALL NEW WORK DRAWINGS AND MAY NOT BE USED ON EVERY SHEET.

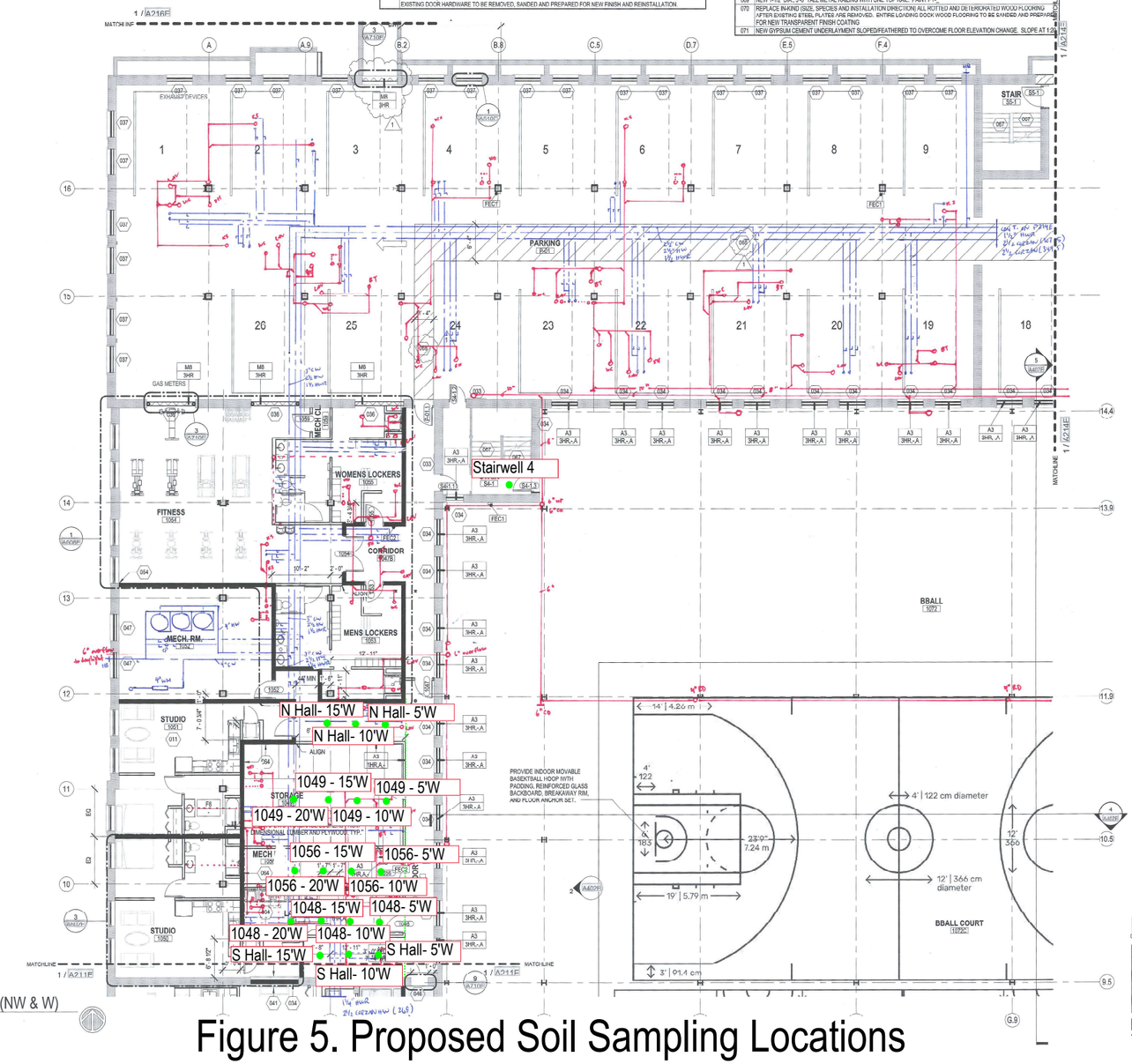
029	SEE UNIT 2095 ENLARGED PLAN. UNIT MAY BE MIRRORED.
030	SEE UNIT 2111 ENLARGED PLAN. FOR UNIT 3110: SEE UNIT 2110.
031	SEE UNIT 2117 ENLARGED PLAN.
032	UNIT TO INCLUDE AUDIO AND VISUAL ALARM DEVICES FOR THE HEARING AND VISUALLY IMPAIRED. COORDINATE LOCATION WITH ELECTRICAL DRAWINGS
033	EXISTING HISTORIC SLIDING FIRE DOOR ASSEMBLY TO REMAIN IN PLACE. SECURE SLIDING DOOR IN A FULLY OPEN POSITION WITH METAL Z-BRACKETS. SEE SALVAGED DOOR SCHEDULE FOR MORE INFO.
034	NEW GYPSUM BOARD INFILL WALL ASSEMBLY AT EXISTING OPENING. SEE 9A710E
035	EXISTING HISTORIC WINDOW ASSEMBLY TO REMAIN. PREPARE EXISTING WINDOW FOR NEW PAINT FINISH. REPLACE DAMAGED OR MISSING GLAZING TO MATCH EXISTING.
036	NEW CMU INFILL WALL ASSEMBLY AT EXISTING OPENING. SEE 9A710E
037	NEW METAL PANEL INFILL WALL ASSEMBLY AT EXISTING OPENING. SEE 1/A551E
038	NEW BRICK AND CMU INFILL AT EXISTING WALL OPENING.
039	NEW BRICK MASONRY INFILL WALL ASSEMBLY AT EXISTING OPENING. SEE 9A710E
040	EXISTING CONCRETE FLOOR WITH NEW WATERPROOF TRAFFIC COATING
041	EXISTING HISTORIC SLIDING FIRE DOOR ASSEMBLY TO REMAIN. SECURE SLIDING DOOR IN A CLOSED POSITION WITH METAL Z-BRACKETS. SEE SALVAGED DOOR SCHEDULE FOR MORE INFO.
042	NEW BRICK MASONRY AND GYPSUM BOARD INFILL WALL ASSEMBLY AT EXISTING OPENING. SEE 9A710E
043	NEW CMU AND GYPSUM BOARD INFILL WALL ASSEMBLY AT EXISTING OPENING. SEE 9A710E
044	NEW WOOD FLOOR INFILL. NEW WOOD FRAMING TO MATCH EXISTING. NEW WOOD SUBFLOORING TO MATCH DIMENSIONS OF EXISTING AND TO RUN IN THE SAME DIRECTIONAS EXISTING. REINSTALL EXISTING SALVAGED FINISH FLOORING, RUN IN THE SAME DIRECTION AS EXISTING. SEE STRUCTURAL FOR DETAILING.
045	NEW CONCRETE ON METAL DECK INFILL WITH SPRAY-APPLIED FIRE RESISTIVE MATERIAL AT NEW STEEL BEAMS AND ANGLES TO MAINTAIN FLOOR ASSEMBLY FIRE RATING. SEE OVERVIEW FLOOR PLANS FOR REQUIRED FLOOR ASSEMBLY FIRE RATINGS. SEE STRUCTURAL FOR DETAIL.
046	NEW CONCRETE FLOOR INFILL. SEE STRUCTURAL
047	NEW PREFINISHED METAL MECHANICAL LOUVER IN EXISTING MASONRY OPENING
048	ENTIRE EXISTING HISTORIC WOOD DOOR ASSEMBLY INCLUDING ALL EXTERIOR AND INTERIOR WOOD TRIM COMPONENTS TO REMAIN. ALL WOOD COMPONENTS TO BE SANDED, REPLACED IN KIND AND PREPARED FOR NEW FINISHES THAT MATCH EXISTING FINISHES. ANY MISSING WOOD COMPONENTS (DOOR ASSEMBLY, INTERIOR/EXTERIOR TRIM COMPONENTS) TO BE REPLACED WITH SIMILAR WOOD SPECIES AND TO MATCH EXISTING PROFILES THAT REMAIN. ALL EXISTING DOOR HARDWARE TO BE REMOVED, SANDED AND PREPARED FOR NEW FINISH AND REINSTALLATION.

NEW WORK PLAN KEY NOTES - 1/8" PLANS(2)

SEE PROJECT GENERAL CONDITIONS, GENERAL INFORMATION ON SHEET A001 AND SELECTIVE DEMOLITION, CUTTING AND PATCHING SPECIFICATIONS THAT ARE USED IN ASSOCIATION WITH THESE NOTES.

NEW WORK PLAN KEY NOTES APPLY TO ALL NEW WORK DRAWINGS AND MAY NOT BE USED ON EVERY SHEET.

049	EXISTING HISTORIC WINDOW ASSEMBLY TO REMAIN. CLEAN,SCRAPE/PREPARE EXISTING WINDOW FRAMES TO RECEIVE NEW PAINT. EXISTING GLAZING TO BE REMOVED.
050	REPLACE ALL BROKEN/CRACKED AND MISSING GLASS LITES AT HISTORIC LIGHT MONITOR
051	NEW GYPSUM BOARD INFILL WALL ASSEMBLY AT EXISTING OPENING TO BE 3-HOUR FIRE RATED. SEE 10A710E SIM.
052	EXISTING HISTORIC WINDOW ASSEMBLY TO REMAIN. PREPARE EXISTING WINDOW FOR NEW PAINT FINISH. EXISTING GLAZING TO REMAIN. NEW GLAZING NOT REQUIRED.
053	EXISTING HISTORIC DOOR ASSEMBLY TO REMAIN. PREPARE EXISTING DOOR ASSEMBLY FOR NEW PAINT FINISH.
054	ALIGN DEMISING WALL WITH EDGE OF HISTORIC MASONRY OPENING.
055	ALIGN CENTER OF WALL WITH CENTERLINE OF HISTORIC COLUMN.
056	AT LEVEL 02: ALIGN EDGE OF DEMISING WALL WITH EDGE OF HISTORIC CONCRETE DROP SLAB. AT LEVEL 03: ALIGN EDGE OF DEMISING WALL WITH EDGE OF HISTORIC CONCRETE DROP SLAB AS IT OCCURS ON THE LEVEL BELOW.
057	ALIGN CENTERLINE OF WALL WITH CENTERLINE OF WINDOW MULLION.
058	CRITICAL KITCHEN CLEARANCES AT HISTORIC COLUMN. VERIFY BEFORE FRAMING DEMISING WALLS AND REPORT TO ARCHITECT IF THERE ARE ANY ISSUES.
059	EXISTING HISTORIC DOOR ASSEMBLY TO REMAIN. PERMANENTLY SECURE BOTH DOORS IN CLOSED POSITION. PREPARE EXISTING DOOR ASSEMBLY FOR NEW PAINT FINISH.
060	EXISTING HISTORIC OPENING AT REMOVED WINDOW. SEE DEMOLITION PLANS FOR ADDITIONAL INFORMATION.
061	NEW CMU WALL TO CLOSE OFF FILLED-IN UNDERGROUND TUNNEL. SEE STRUCTURAL
062	EXTEND WALL TO DEMISING WALL, TYP. SHIFT ANY PLUMBING FIXTURES OR CLOSETS AGAINST DEMISING WALL
063	EXISTING TRANSOM WINDOW ABOVE TO REMAIN. PREPARE SURFACES FOR NEW PAINT. EXISTING DOOR FRAME TO REMAIN. PREPARE SURFACES FOR NEW PAINT
064	NEW CONCRETE AREA WELL WALLS. SEE STRUCTURAL
065	BUILD WALL TYPE P6 UNIT DEMISING WALL WITH RESILIENT CHANNEL ON THIS SIDE.
066	NEW CONCRETE STOOP WITH FROST WALLS. SEE STRUCTURAL
067	NEW BRICK MASONRY WALL REBUILT WITH SALVAGED AND NEW BRICK TO MATCH EXISTING. REBUILT WALL TO MATCH FEATURES OF EXISTING. REMOVED BRICK MASONRY WALL INCLUDING, BUT NOT LIMITED TO WIDTH/DEPTH OF REMOVED WALL, HEIGHT OF REMOVED WALL, AND ALL ARCHES ABOVE EXISTING WINDOW OPENINGS.
068	EXISTING HANDRAILS TO REMAIN. REFASTEN EXISTING HANDRAILS TO EXISTING WALLS IF LOOSE OR FAILING. PREPARE EXISTING HANDRAILS FOR NEW PT.
069	NEW 4" PAINTED FLOOR STRIPING LEADING TO EXIT STAIR
070	NEW 1-1/2" DIA., 3-0" TALL METAL RAILING WITH ONE TOP RAIL. PAINT PT.
071	REPLACE INKIND (SIZE, SPECIES AND INSTALLATION DIRECTION) ALL ROTTED AND DETERIORATED WOOD FLOORING AFTER EXISTING STEEL PLATES ARE REMOVED. ENTIRE LOADING DOCK WOOD FLOORING TO BE SANDED AND PREPARED FOR NEW TRANSPARENT FINISH COATING
071	NEW GYPSUM CEMENT UNDERLAYMENT SLOPED/FEATHERED TO OVERCOME FLOOR ELEVATION CHANGE. SLOPE AT 1/2"



1 NEW WORK PLAN - LEVEL 01, BLDG 1B (NW & W)
Scale: 1/8" = 1'-0"
0' 2' 4' 8' 12'

Figure 5. Proposed Soil Sampling Locations

T 414.220.9640
751 N Jefferson St.
Suite 200
Milwaukee, WI 53202

CONSULTANTS:

COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
3100W. Center Street
Milwaukee, WI 53210

SHEET TITLE:
NEW WORK PLAN - LEVEL 01, BLDG 1B (NW & W)

REVISIONS:
1 10/09/20 Addendum #1

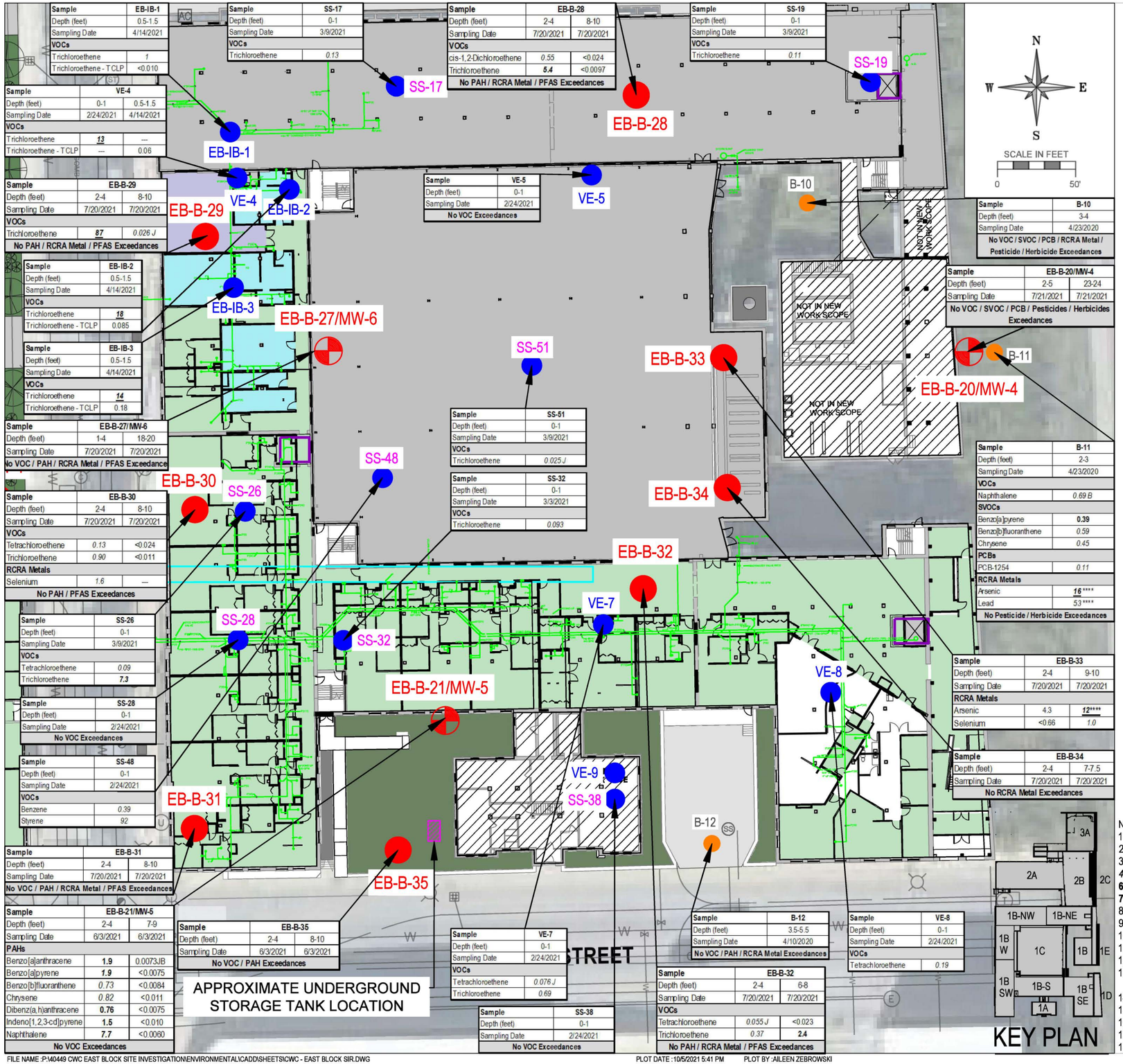
SCALE	VARIES
PROJECT NUMBER	200102
SET TYPE	CONSTRUCTION DOCUMENTS
DATE ISSUED	09/25/20
SHEET NUMBER	A213E

Table

Table 1
Estimated Additional Excavation Volumes

Unit	Location	Area (square feet)	Depth (feet)	Volume (cubic yards)	Weight (tons)	Representative Sample
Hall	Hall Outside 1044 and 1045	186	2.5	17.22	30.225	EB-HS-8, EB-HS-9, EB-HS-11, EB-HS-12, EB-B30 (max TCE concentration 3.7 mg/kg)
1044	Main	100	2.5	9.26	16.25	EB-HS-8, EB-HS-9, EB-HS-11, EB-HS-12, EB-B30 (max TCE concentration 3.7 mg/kg)
1045	Main	99	2.5	9.17	16.0875	EB-HS-8, EB-HS-9, EB-HS-11, EB-HS-12, EB-B30 (max TCE concentration 3.7 mg/kg)
1045	Bedroom	100	2.5	9.26	16.25	EB-HS-8, EB-HS-9, EB-HS-11, EB-HS-12, EB-B30 (max TCE concentration 3.7 mg/kg)
1050	Main	50	2.5	4.63	8.125	EB-HS-8, EB-HS-9, EB-HS-11, EB-HS-12, EB-B30 (max TCE concentration 3.7 mg/kg)
Hall	Hall to 1050	126	2.5	11.67	20.475	EB-HS-5 (220 mg/kg TCE)
Hall	Corridor Outside 1048/1049	192	2.5	17.78	31.2	EB-HS-5 (220 mg/kg TCE)
1048	Laundry	150	2.5	13.89	24.375	EB-HS-5 (220 mg/kg TCE)
1056	Mechanical Electrical Room	92	2.5	8.52	14.95	EB-HS-5 (220 mg/kg TCE)
1049	Storage Room	384	2.5	35.56	62.4	EB-HS-5 (220 mg/kg TCE)
Hall	Hall to 1051	109.72	2.5	10.16	17.83	EB-HS-5 (220 mg/kg TCE)
1B-NW	Garage Near SW Garage Vapor Pin (Parking Space 2, Parking Space 6, and Parking Space 19)	400	3.5	51.85	91.00	SW-B6 (1 mg/kg TCE)
N. Mech. Room	N. Mech. Room	100	3.5	12.96	22.75	VE-1 (2.7 mg/kg TCE)
1B-C	SW Portion of Gym (Vapor Pin BB1)	200	1.5	11.11	19.50	SS-48, SS-51, EB-B27, and EB-B-32 (max TCE 2.4 mg/kg)
1B-C	S Portion of Gym (Vapor Pin BB2)	200	1.5	11.11	19.50	SS-48, SS-51, EB-B27, and EB-B-32 (max TCE 2.4 mg/kg)
NW Gym Stairwell	NW Gym Stairwell	12	1.5	0.67	1.17	12 mg/kg TCE
Total		**2,500.72**	**---**	**234.81**	**412.09**	**---**

Appendix A
Soil Sample Locations and Historic Tabulated Test Results



Sample	EB-IB-1
Depth (feet)	0.5-1.5
Sampling Date	4/14/2021
VOCs	
Trichloroethene	*1*
Trichloroethene - TCLP	<0.010

Sample	SS-17
Depth (feet)	0-1
Sampling Date	3/9/2021
VOCs	
Trichloroethene	*0.13*

Sample	EB-B-28	
Depth (feet)	2-4	8-10
Sampling Date	7/20/2021	7/20/2021
VOCs		
cis-1,2-Dichloroethene	*0.55*	<0.024
Trichloroethene	***5.4***	<0.0097

No PAH / RCRA Metal / PFAS Exceedances

Sample	SS-19
Depth (feet)	0-1
Sampling Date	3/9/2021
VOCs	
Trichloroethene	*0.11*

Sample	VE-4	
Depth (feet)	0-1	0.5-1.5
Sampling Date	2/24/2021	4/14/2021
VOCs		
Trichloroethene	***13***	---
Trichloroethene - TCLP	---	0.06

Sample	VE-5
Depth (feet)	0-1
Sampling Date	2/24/2021

No VOC Exceedances

Sample	B-10
Depth (feet)	3-4
Sampling Date	4/23/2020

No VOC / SVOC / PCB / RCRA Metal / Pesticide / Herbicide Exceedances

Sample	EB-B-29	
Depth (feet)	2-4	8-10
Sampling Date	7/20/2021	7/20/2021
VOCs		
Trichloroethene	***87***	*0.026 J*

No PAH / RCRA Metal / PFAS Exceedances

Sample	EB-B-20/MW-4	
Depth (feet)	2-5	23-24
Sampling Date	7/21/2021	7/21/2021

No VOC / SVOC / PCB / Pesticides / Herbicides Exceedances

Sample	EB-IB-2
Depth (feet)	0.5-1.5
Sampling Date	4/14/2021
VOCs	
Trichloroethene	***18***
Trichloroethene - TCLP	0.085

Sample	EB-IB-3
Depth (feet)	0.5-1.5
Sampling Date	4/14/2021
VOCs	
Trichloroethene	***14***
Trichloroethene - TCLP	0.18

Sample	SS-51
Depth (feet)	0-1
Sampling Date	3/9/2021
VOCs	
Trichloroethene	*0.025 J*

Sample	SS-32
Depth (feet)	0-1
Sampling Date	3/3/2021
VOCs	
Trichloroethene	*0.093*

Sample	B-11
Depth (feet)	2-3
Sampling Date	4/23/2020
VOCs	
Naphthalene	*0.69 B*
SVOCs	
Benzo[a]pyrene	**0.39**
Benzo[b]fluoranthene	*0.59*
Chrysene	*0.45*
PCBs	
PCB-1254	*0.11*
RCRA Metals	
Arsenic	***16****
Lead	*53****

No Pesticide / Herbicide Exceedances

Sample	EB-IB-27/MW-6	
Depth (feet)	1-4	18-20
Sampling Date	7/20/2021	7/20/2021

No VOC / PAH / RCRA Metal / PFAS Exceedance

Sample	EB-B-33	
Depth (feet)	2-4	9-10
Sampling Date	7/20/2021	7/20/2021
RCRA Metals		
Arsenic	4.3	***12****
Selenium	<0.66	*1.0*

Sample	EB-B-30	
Depth (feet)	2-4	8-10
Sampling Date	7/20/2021	7/20/2021
VOCs		
Tetrachloroethene	*0.13*	<0.024
Trichloroethene	*0.90*	<0.011
RCRA Metals		
Selenium	*1.6*	---

No PAH / PFAS Exceedances

Sample	EB-B-34	
Depth (feet)	2-4	7-7.5
Sampling Date	7/20/2021	7/20/2021

No RCRA Metal Exceedances

Sample	SS-26
Depth (feet)	0-1
Sampling Date	3/9/2021
VOCs	
Tetrachloroethene	*0.09*
Trichloroethene	***7.3***

Sample	SS-28
Depth (feet)	0-1
Sampling Date	2/24/2021

No VOC Exceedances

Sample	SS-48
Depth (feet)	0-1
Sampling Date	2/24/2021
VOCs	
Benzene	*0.39*
Styrene	*92*

Sample	EB-B-31	
Depth (feet)	2-4	8-10
Sampling Date	7/20/2021	7/20/2021

No VOC / PAH / RCRA Metal / PFAS Exceedances

Sample	EB-B-21/MW-5	
Depth (feet)	2-4	7-9
Sampling Date	6/3/2021	6/3/2021
PAHs		
Benzo[a]anthracene	**1.9**	0.0073JB
Benzo[a]pyrene	***1.9***	<0.0075
Benzo[b]fluoranthene	*0.73*	<0.0084
Chrysene	*0.82*	<0.011
Dibenz(a,h)anthracene	**0.76**	<0.0075
Indeno[1,2,3-cd]pyrene	**1.5**	<0.010
Naphthalene	**7.7**	<0.0060

No VOC Exceedances

Sample	EB-B-35	
Depth (feet)	2-4	8-10
Sampling Date	6/3/2021	6/3/2021

No VOC / PAH Exceedances

Sample	VE-7
Depth (feet)	0-1
Sampling Date	2/24/2021
VOCs	
Tetrachloroethene	*0.076 J*
Trichloroethene	*0.69*

Sample	B-12
Depth (feet)	3.5-5.5
Sampling Date	4/10/2020

No VOC / PAH / RCRA Metal Exceedances

Sample	VE-8
Depth (feet)	0-1
Sampling Date	2/24/2021
VOCs	
Tetrachloroethene	*0.19*

Sample	SS-38
Depth (feet)	0-1
Sampling Date	2/24/2021

No VOC Exceedances

Sample	EB-B-32	
Depth (feet)	2-4	6-8
Sampling Date	7/20/2021	7/20/2021
VOCs		
Tetrachloroethene	*0.055 J*	<0.023
Trichloroethene	*0.37*	**2.4**

No PAH / RCRA Metal / PFAS Exceedances

FLOOR FINISH LEGEND

ATH-1	ATHLETIC FLOORING - FLEXIBLE / NON-ADHERED
CPT-1	BROADLOOM CARPET (UNIT BEDROOMS)
CT-1	CERAMIC TILE (UNIT BATHROOMS W/ ROLL-IN SHOWERS ONLY)
ERF-1	EPOXY RESINOUS FLOORING
EXTG-WD	EXISTING WOOD FLOORING TO REMAIN IN PLACE & BE REFINISHED
EXTG-WS	EXISTING CONCRETE SLAB WITH WEATHER SEAL
LVT-1	LUXURY VINYL TILE (UNIT BATHROOMS)
PC-1	POLISHED CONCRETE
RF-1	RUBBER FLOORING
SC-1	SEALED CONCRETE
WD-SV	SALVAGED WOOD - REMOVED, REINSTALLED AND REFINISHED (SALVAGED WOOD WILL BE REINSTALLED IN CORRIDORS FIRST THEN CONTINUE INTO UNITS - IF THERE IS NOT ENOUGH QUANTITY - INSTALL NEW WOOD FLOORING TO MATCH HISTORIC SIZE)

LEGEND

- Planned Underground Plumbing
- Underground Tunnel
- Previous Soil Probe, Hand Auger, and Temp. Well Locations (9)
- Monitoring Well Locations (6)
- Soil Probe Locations (13)
- Sub-Slab Soil Sampling Locations (28)
- Approximate Underground Storage Tank Location

Analyte	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	Background Threshold Value
Volatile Organic Compounds (VOCs)				
1,1,1-Trichloroethane	*0.1402*	**640**	**640**	---
1,1-Dichloroethane	*0.4834*	**5.06**	**22.2**	---
1,2-Dichloroethane	*0.0028*	**0.652**	**2.87**	---
1,2,4-Trimethylbenzene	*1.3787***	**219**	**219**	---
1,3,5-Trimethylbenzene	*1.3787***	**182**	**182**	---
Benzene	*0.0051*	**1.6**	**7.07**	---
Chloroform	*0.0033*	**0.454**	**1.98**	---
cis-1,2-Dichloroethene	*0.0412*	**156**	**2,340**	---
Ethylbenzene	*1.57*	**8.02**	**35.4**	---
Naphthalene	*0.658182*	**5.52**	**24.10**	---
Styrene	*0.22*	**867**	**867**	---
trans-1,2-Dichloroethene	*0.0626*	**1560**	**1850**	---
Tetrachloroethene	*0.0045*	**33**	**145**	---
Trichloroethene	*0.0036*	**1.3**	**8.41**	---
Vinyl chloride	*0.0001*	**0.067**	**2.08**	---
Xylenes, Total	*3.96*	**1,212**	**1212**	---
Semivolatile Organic Compounds (SVOCs) / Polycyclic Aromatic Hydrocarbons (PAHs)				
Benzo[a]anthracene	---	**1.14**	**21**	---
Benzo[a]pyrene	*0.47*	**0.115**	**2.11**	---
Benzo[b]fluoranthene	*0.4781*	**1.15**	**21.1**	---
Benzo[k]fluoranthene	---	**11.5**	**211**	---
Chrysene	*0.1442*	**115**	**2110**	---
Dibenz(a,h)anthracene	---	**0.115**	**2**	---
Indeno[1,2,3-cd]pyrene	---	**1.15**	**21.1**	---
Naphthalene	*0.6582*	**5.52**	**24.1**	---
Polychlorinated Biphenyls (PCBs)				
PCB-1254	*0.0094****	**0.239**	**1**	---
RCRA Metals				
Arsenic	*0.584*	**0.677**	**3**	8.3
Selenium	*0.52*	**391**	**5840**	---
Lead	*27*	**400**	**800**	51.6

NOTES:

1. (1) FROM WDNR RCLS WORKSHEET DATED DECEMBER 2018
2. REPORTED UNITS IN MG/KG
3. ONLY RCL EXCEEDANCES SHOWN
4. *Italics* = DETECTION IS ABOVE GROUNDWATER PROTECTION RCLS
6. **BOLD** = DETECTION IS ABOVE NON-INDUSTRIAL DIRECT CONTACT RCLS
7. **BOLD Underlined** = DETECTION IS ABOVE INDUSTRIAL DIRECT CONTACT RCLS
8. ** = COMBINED ESTABLISHED STANDARD OF 1,2,4- & 1,3,5-TRIMETHYLBENZENE
9. *** = COMBINED ESTABLISHED STANDARD OF PCBS
10. **** = EXCEEDS BACKGROUND THRESHOLDS
11. --- = NO ESTABLISHED STANDARD
12. * = LABORATORY CONTROL SAMPLE AND/OR DUPLICATE IS OUTSIDE ACCEPTANCE LIMITS
13. *+= LABORATORY CONTROL SAMPLE AND/OR DUPLICATE IS OUTSIDE ACCEPTANCE LIMITS, HIGH BIASED
14. "B" = COMPOUND WAS FOUND IN THE BLANK AND SAMPLE
15. "F1" = MATRIX SPIKE AND/OR MATRIX SPIKE DUP RECOVERY EXCEEDS CONTROL LIMITS
16. "J" = ANALYTE DETECTED BETWEEN 'LIMIT OF DETECTION' AND 'LIMIT OF QUANTITATION'
17. METHYLENE CHLORIDE OMITTED - COMMON LABORATORY ARTIFACT
18. SAMPLING LOCATIONS ARE APPROXIMATE

KSingh Engineers Scientists Consultants
3636 North 124th Street
Wauwatosa, WI 53222
262-821-1171

CONSULTANT

CONSULTANT

CONSULTANT

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

CLIENT: COMMUNITY WITHIN THE CORRIDOR LIMITED PARTNERSHIP

REVISIONS	DATE	DESCRIPTION

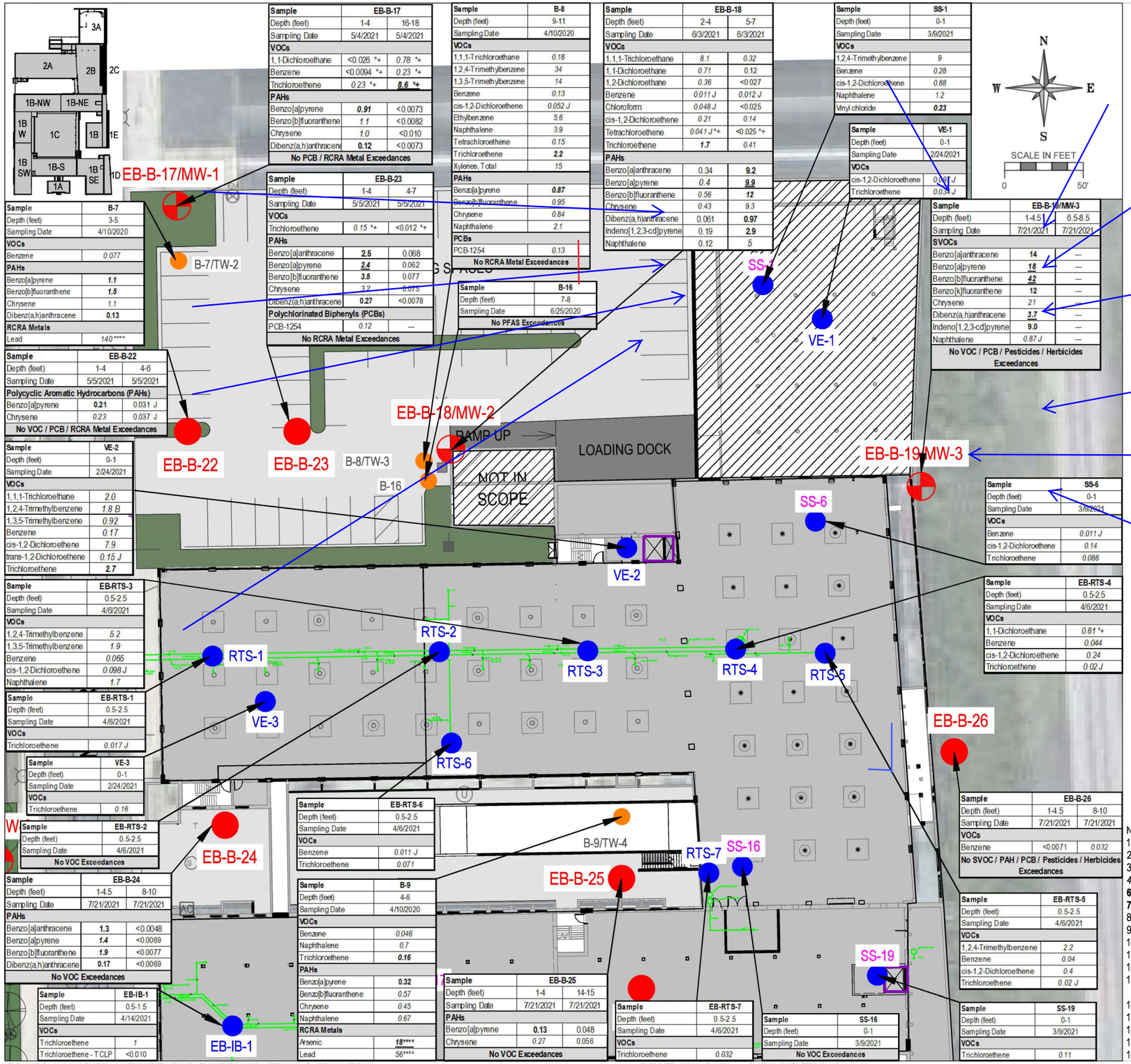
DRAWN BY	DATE
AMZ	10/04/2021
CHECKED BY	DATE
DKP	10/04/2021

SHEET TITLE
SOIL SAMPLING RESULTS

FIGURE 8A

SHEET 9 of SHEET 17

FILE NAME :P:\40449 CWC EAST BLOCK SITE INVESTIGATION\ENVIRONMENTAL\CADD\SHEETS\CWC - EAST BLOCK SIR.DWG PLOT DATE :10/5/2021 5:41 PM PLOT BY :AILEEN ZEBROWSKI



Sample	EB-B-17	
Depth (feet)	1-4	16-18
Sampling Date	5/4/2021	5/4/2021
VOCs		
1,1-Dichloroethane	<0.026 *+	*0.78* *+
Benzene	<0.0094 *+	*0.23* *+
Trichloroethene	*0.23* *+	***8.6*** *+
PAHs		
Benzo[a]pyrene	***0.91***	<0.0073
Benzo[b]fluoranthene	*1.1*	<0.0082
Chrysene	*1.0*	<0.010
Dibenz(a,h)anthracene	**0.12**	<0.0073
No PCB / RCRA Metal Exceedances		

Sample	B-8
Depth (feet)	9-11
Sampling Date	4/10/2020
VOCs	
1,1,1-Trichloroethane	*0.18*
1,2,4-Trimethylbenzene	*34*
1,3,5-Trimethylbenzene	*14*
Benzene	*0.13*
cis-1,2-Dichloroethene	*0.052 J*
Ethylbenzene	*5.6*
Naphthalene	*3.9*
Tetrachloroethene	*0.15*
Trichloroethene	***2.2***
Xylenes, Total	*15*
PAHs	
Benzo[a]pyrene	***0.87***
Benzo[b]fluoranthene	*0.95*
Chrysene	*0.84*
Naphthalene	*2.1*
PCBs	
PCB-1254	*0.13*
No RCRA Metal Exceedances	

Sample	EB-B-18	
Depth (feet)	2-4	5-7
Sampling Date	6/3/2021	6/3/2021
VOCs		
1,1,1-Trichloroethane	*8.1*	*0.32*
1,1-Dichloroethane	*0.71*	0.12
1,2-Dichloroethane	*0.36*	<0.027
Benzene	*0.011 J*	*0.012 J*
Chloroform	*0.048 J*	<0.025
cis-1,2-Dichloroethene	*0.21*	*0.14*
Tetrachloroethene	*0.041 J* *+*	<0.025 *+*
Trichloroethene	***1.7***	*0.41*
PAHs		
Benzo[a]anthracene	0.34	**9.2**
Benzo[a]pyrene	*0.4*	***9.9***
Benzo[b]fluoranthene	*0.56*	***12***
Chrysene	*0.43*	*9.3*
Dibenz(a,h)anthracene	0.061	**0.97**
Indeno[1,2,3-cd]pyrene	0.19	**2.9**
Naphthalene	0.12	*5*

Sample	SS-1
Depth (feet)	0-1
Sampling Date	3/9/2021
VOCs	
1,2,4-Trimethylbenzene	*9*
Benzene	*0.28*
cis-1,2-Dichloroethene	*0.88*
Naphthalene	*1.2*
Vinyl chloride	***0.23***

Sample	VE-1
Depth (feet)	0-1
Sampling Date	2/24/2021
VOCs	
cis-1,2-Dichloroethene	*0.031 J*
Trichloroethene	*0.04 J*

Sample	EB-B-19/MW-3	
Depth (feet)	1-4.5	6.5-8.5
Sampling Date	7/21/2021	7/21/2021
SVOCs		
Benzo[a]anthracene	**14**	---
Benzo[a]pyrene	***18***	---
Benzo[b]fluoranthene	***42***	---
Benzo[k]fluoranthene	**12**	---
Chrysene	*21*	---
Dibenz(a,h)anthracene	***3.7***	---
Indeno[1,2,3-cd]pyrene	**9.0**	---
Naphthalene	*0.87 J*	---
No VOC / PCB / Pesticides / Herbicides Exceedances		

Sample	B-7
Depth (feet)	3-5
Sampling Date	4/10/2020
VOCs	
Benzene	*0.077*
PAHs	
Benzo[a]pyrene	***1.1***
Benzo[b]fluoranthene	***1.5***
Chrysene	*1.1*
Dibenz(a,h)anthracene	**0.13**
RCRA Metals	
Lead	*140* ****

Sample	EB-B-23	
Depth (feet)	1-4	4-7
Sampling Date	5/5/2021	5/5/2021
VOCs		
Trichloroethene	*0.15* *+*	<0.012 *+*
PAHs		
Benzo[a]anthracene	**2.5**	0.068
Benzo[a]pyrene	***2.4***	0.062
Benzo[b]fluoranthene	**3.5**	0.077
Chrysene	*3.2*	*0.075*
Dibenz(a,h)anthracene	**0.27**	<0.0078
Polychlorinated Biphenyls (PCBs)		
PCB-1254	*0.12*	---
No RCRA Metal Exceedances		

Sample	B-16
Depth (feet)	7-8
Sampling Date	6/25/2020
No PFAS Exceedances	

Sample	EB-B-22	
Depth (feet)	1-4	4-6
Sampling Date	5/5/2021	5/5/2021
Polycyclic Aromatic Hydrocarbons (PAHs)		
Benzo[a]pyrene	**0.21**	0.031 J
Chrysene	*0.23*	0.037 J
No VOC / PCB / RCRA Metal Exceedances		

Sample	VE-2
Depth (feet)	0-1
Sampling Date	2/24/2021
VOCs	
1,1,1-Trichloroethane	*2.0*
1,2,4-Trimethylbenzene	*1.8 B*
1,3,5-Trimethylbenzene	*0.92*
Benzene	*0.17*
cis-1,2-Dichloroethene	*7.9*
trans-1,2-Dichloroethene	*0.15 J*
Trichloroethene	**2.7**

Sample	SS-6
Depth (feet)	0-1
Sampling Date	3/9/2021
VOCs	
Benzene	*0.011 J*
cis-1,2-Dichloroethene	*0.14*
Trichloroethene	*0.086*

Sample	EB-RTS-3
Depth (feet)	0.5-2.5
Sampling Date	4/6/2021
VOCs	
1,2,4-Trimethylbenzene	*5.2*
1,3,5-Trimethylbenzene	*1.9*
Benzene	*0.065*
cis-1,2-Dichloroethene	*0.098 J*
Naphthalene	*1.7*

Sample	EB-RTS-4
Depth (feet)	0.5-2.5
Sampling Date	4/6/2021
VOCs	
1,1-Dichloroethene	*0.81* *+*
Benzene	*0.044*
cis-1,2-Dichloroethene	*0.24*
Trichloroethene	*0.02 J*

Sample	EB-RTS-1
Depth (feet)	0.5-2.5
Sampling Date	4/6/2021
VOCs	
Trichloroethene	*0.017 J*

Sample	VE-3
Depth (feet)	0-1
Sampling Date	2/24/2021
VOCs	
Trichloroethene	*0.16*

Sample	EB-RTS-2
Depth (feet)	0.5-2.5
Sampling Date	4/6/2021
No VOC Exceedances	

Sample	EB-RTS-6
Depth (feet)	0.5-2.5
Sampling Date	4/6/2021
VOCs	
Benzene	*0.011 J*
Trichloroethene	*0.071*

Sample	EB-B-26	
Depth (feet)	1-4.5	8-10
Sampling Date	7/21/2021	7/21/2021
VOCs		
Benzene	<0.0071	*0.032*
No SVOC / PAH / PCB / Pesticides / Herbicides Exceedances		

Sample	EB-B-24	
Depth (feet)	1-4.5	8-10
Sampling Date	7/21/2021	7/21/2021
PAHs		
Benzo[a]anthracene	**1.3**	<0.0048
Benzo[a]pyrene	***1.4***	<0.0069
Benzo[b]fluoranthene	***1.9***	<0.0077
Dibenz(a,h)anthracene	**0.17**	<0.0069
No VOC Exceedances		

Sample	B-9
Depth (feet)	4-6
Sampling Date	4/10/2020
VOCs	
Benzene	*0.046*
Naphthalene	*0.7*
Trichloroethene	***0.16***
PAHs	
Benzo[a]pyrene	**0.32**
Benzo[b]fluoranthene	*0.57*
Chrysene	*0.45*
Naphthalene	*0.67*
RCRA Metals	
Arsenic	***18****
Lead	*56* ****

Sample	EB-B-25	
Depth (feet)	1-4	14-15
Sampling Date	7/21/2021	7/21/2021
PAHs		
Benzo[a]pyrene	**0.13**	0.048
Chrysene	*0.27*	0.056
No VOC Exceedances		

Sample	EB-RTS-5
Depth (feet)	0.5-2.5
Sampling Date	4/6/2021
VOCs	
1,2,4-Trimethylbenzene	*2.2*
Benzene	*0.04*
cis-1,2-Dichloroethene	*0.4*
Trichloroethene	*0.02 J*

Sample	EB-RTS-7
Depth (feet)	0.5-2.5
Sampling Date	4/6/2021
VOCs	
Trichloroethene	*0.032*

Sample	SS-16
Depth (feet)	0-1
Sampling Date	3/9/2021
No VOC Exceedances	

Sample	SS-19
Depth (feet)	0-1
Sampling Date	3/9/2021
VOCs	
Trichloroethene	*0.11*

Sample	EB-IB-1
Depth (feet)	0.5-1.5
Sampling Date	4/14/2021
VOCs	
Trichloroethene	*1*
Trichloroethene - TCLP	<0.010

FLOOR FINISH LEGEND

	ATH-1	ATHLETIC FLOORING - FLEXIBLE / NON-ADHERED
	CPT-1	BROADLOOM CARPET (UNIT BEDROOMS)
	CT-1	CERAMIC TILE (UNIT BATHROOMS W/ ROLL-IN SHOWERS ONLY)
	ERF-1	EPOXY RESINOUS FLOORING
	EXTG-WD	EXISTING WOOD FLOORING TO REMAIN IN PLACE & BE REFINISHED
	EXTG-WS	EXISTING CONCRETE SLAB WITH WEATHER SEAL
	LVT-1	LUXURY VINYL TILE (UNIT BATHROOMS)
	PC-1	POLISHED CONCRETE
	RF-1	RUBBER FLOORING
	SC-1	SEALED CONCRETE
	WD-SV	SALVAGED WOOD - REMOVED, REINSTALLED AND REFINISHED (SALVAGED WOOD WILL BE REINSTALLED IN CORRIDORS FIRST THEN CONTINUE INTO UNITS - IF THERE IS NOT ENOUGH QUANTITY - INSTALL NEW WOOD FLOORING TO MATCH HISTORIC SIZE)

LEGEND

- Planned Underground Plumbing
- Underground Tunnel
- Previous Soil Probe, Hand Auger, and Temp. Well Locations (9)
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- Soil Probe Locations (13)
- Sub-Slab Soil Sampling Locations (28)
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Xylenes, Total	*3.96*	**1,212**	**1212**	---
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Benzo[a]anthracene	---	**1.14**	**21**	---
Benzo[a]pyrene	*0.47*	**0.115**	**2.11**	---
Benzo[b]fluoranthene	*0.4781*	**1.15**	**21.1**	---
Benzo[k]fluoranthene	---	**11.5**	**211**	---
Chrysene	*0.1442*	**115**	**2110**	---
Dibenz(a,h)anthracene	---	**0.115**	**2**	---
Indeno[1,2,3-cd]pyrene	---	**1.15**	**21.1**	---
Naphthalene	*0.6582*	**5.52**	**24.1**	---
Polychlorinated Biphenyls (PCBs)				
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RCRA Metals				
Arsenic	*0.584*	**0.677**	**3**	8.3
Selenium	*0.52*	**391**	**5840**	---
Lead	*27*	**400**	**800**	51.6

NOTES:

1. (1) FROM WDNR RCLS WORKSHEET DATED DECEMBER 2018
2. REPORTED UNITS IN MG/KG
3. ONLY RCL EXCEEDANCES SHOWN
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6. **BOLD** = DETECTION IS ABOVE NON-INDUSTRIAL DIRECT CONTACT RCLS
7. **BOLD Underlined** = DETECTION IS ABOVE INDUSTRIAL DIRECT CONTACT RCLS
8. ** = COMBINED ESTABLISHED STANDARD OF 1,2,4- & 1,3,5-TRIMETHYLBENZENE
9. *** = COMBINED ESTABLISHED STANDARD OF PCBS
10. **** = EXCEEDS BACKGROUND THRESHOLDS
11. --- = NO ESTABLISHED STANDARD
12. * = LABORATORY CONTROL SAMPLE AND/OR DUPLICATE IS OUTSIDE ACCEPTANCE LIMITS
13. *+ = LABORATORY CONTROL SAMPLE AND/OR DUPLICATE IS OUTSIDE ACCEPTANCE LIMITS, HIGH BIASED
14. "B" = COMPOUND WAS FOUND IN THE BLANK AND SAMPLE
15. "F1" = MATRIX SPIKE AND/OR MATRIX SPIKE DUP RECOVERY EXCEEDS CONTROL LIMITS
16. "J" = ANALYTE DETECTED BETWEEN 'LIMIT OF DETECTION' AND 'LIMIT OF QUANTITATION'
17. METHYLENE CHLORIDE OMITTED - COMMON LABORATORY ARTIFACT
18. SAMPLING LOCATIONS ARE APPROXIMATE

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3636 North 124th Street
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CONSULTANT

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

CLIENT:
COMMUNITY WITHIN THE CORRIDOR LIMITED PARTNERSHIP

REVISIONS	DATE	DESCRIPTION

DRAWN BY	DATE
AMZ	10/04/2021
CHECKED BY	DATE
DKP	10/04/2021

SHEET TITLE
SOIL SAMPLING RESULTS

FIGURE 8B

FILE NAME :P:\40449 CWC EAST BLOCK SITE INVESTIGATION\ENVIRONMENTAL\CADD\SHEETS\CWC - EAST BLOCK SIR.DWG
PLOT DATE :10/5/2021 5:40 PM PLOT BY :AILEEN ZEBROWSKI

TABLE A.1
PRE-REMEDIATION SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	Background Threshold Value	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)							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							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							Moist	Moist	Moist	Moist	Moist	Moist	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date							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																				
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
Volatile Organic Compounds (VOCs)																				
1,1,1,2-Tetrachloroethane	mg/Kg	8260B	*0.0534*	**2.78**	**12.3**	---	<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**	**640**	---	<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**	**7.01**	---	<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**	**22.2**	---	<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**	**1,190**	---	<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**	**934**	---	<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**	**0.109**	---	<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**	**113**	---	<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**	---	<0.022	<0.022	<0.043	<0.026	<0.029	<0.023	<0.022	<0.037	<0.032	<0.040	<0.035	<0.035	<0.032	---
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	8260B	---	**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**	---	<0.021	<0.021	<0.041	<0.025	<0.028	<0.022	<0.021	<0.036	<0.031	<0.039	<0.034	<0.034	<0.031	---
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	<0.013	---
Bromobenzene	mg/Kg	8260B	---	**342**	**679**	---	<0.022	<0.022	<0.042	<0.025	<0.028	<0.022	<0.022	<0.036	<0.031	<0.039	<0.035	<0.034	<0.031	---
Bromochloromethane	mg/Kg	8260B	---	**216**	**906**	---	<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	---
Bromodichloromethane	mg/Kg	8260B	*0.0003*	**0.418**	**1.83**	---	<0.023	<0.023	<0.044	<0.026	<0.029	<0.023	<0.023	<0.038	<0.033	<0.041	<0.036	<0.036	<0.033	---
Bromoform	mg/Kg	8260B	*0.0023*	**25.4**	**113**	---	<0.030	<0.029	<0.057	<0.034	<0.038	<0.030	<0.029	<0.050	<0.043	<0.053	<0.047	<0.047	<0.043	---
Bromomethane	mg/Kg	8260B	*0.0051*	**9.6**	**43**	---	<0.049	<0.048	<0.094	<0.056	<0.063	<0.050	<0.048	<0.081 *	<0.070 *	<0.088 *	<0.078 *	<0.077 *F1	<0.070 *	---
Carbon tetrachloride	mg/Kg	8260B	*0.0039*	**0.916**	**4.03**	---	<0.024	<0.023	<0.045	<0.027	<0.030	<0.024	<0.023	<0.039	<0.034	<0.042	<0.038	<0.037	<0.034	---
Chlorobenzene	mg/Kg	8260B	---	**370**	**761**	---	<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	---
Chloroethane	mg/Kg	8260B	*0.2266*	**2,120**	**2,120**	---	<0.031	<0.031	<0.059	<0.036	<0.040	<0.031	<0.031	<0.052	<0.044	<0.055	<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	<0.038	<0.032	<0.041	<0.036	<0.036	<0.033	---
Chloromethane	mg/Kg	8260B	*0.0155*	**159**	**669**	---	<0.020	<0.019	<0.038	<0.023	<0.025	<0.020	<0.019	<0.033	<0.028	<0.035	<0.031	<0.031	<0.028	---
cis-1,2-Dichloroethene	mg/Kg	8260B	*0.0412*	**156**	**2,340**	---	<0.025	<0.025	*0.098 J*	*0.24*	*0.4*	<0.025	<0.025	<0.042	*0.052 J*	<0.045	<0.040	<0.039	<0.036	---
cis-1,3-Dichloropropene	mg/Kg	8260B	*0.0003*	**1,210**	**1,210**	---	<0.026	<0.025	<0.049	<0.029	<0.033	<0.026	<0.025	<0.043	<0.037	<0.046	<0.041	<0.040	<0.037	---
Dibromochloromethane	mg/Kg	8260B	*0.032*	**8.28**	**38.9**	---	<0.030	<0.030	<0.058	<0.034	<0.039	<0.030	<0.030	<0.050	<0.043	<0.054	<0.048	<0.047	<0.043	---
Dibromomethane	mg/Kg	8260B	---	**34**	**143**	---	<0.017	<0.016	<0.032	<0.019	<0.021	<0.017	<0.016	<0.028	<0.024	<0.030	<0.026 *	<0.026 *	<0.024	---
Dichlorodifluoromethane	mg/Kg	8260B	*3.0863*	**126**	**530**	---	<0.041	<0.041	<0.080	<0.048	<0.053	<0.042	<0.041	<0.069	<0.059	<0.074	<0.066	<0.065	<0.060	---
Ethylbenzene	mg/Kg	8260B	*1.57*	**8.02**	**35.4**	---	<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	8260B	---	**1.63**	**7.19**	---	<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	8260B	---	**2,260**	**2,260**	---	<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	mg/Kg	8260B	---	**268**	**268**	---	<0.024	<0.023	0.29	<0.027	0.15	<0.024	<0.023	<0.039	1.8	0.11	<0.038	<0.037	<0.034	---
Methyl tert-butyl ether	mg/Kg	8260B	*0.027*	**63.8**	**282**	---	<0.024	<0.024	<0.046	<0.028	<0.031	<0.025	<0.024	<0.040	<0.035	<0.043	<0.039 *	<0.038 *	<0.035	---
Methylene Chloride	mg/Kg	8260B	*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	8260B	*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	mg/Kg	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	8260B	---	**264**	**264**	---	<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	8260B	---	**162**	**162**	---	<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	8260B	---	**145**	**145**	---	<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	8260B	*0.22*	**867**	**867**	---	<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	8260B	---	**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	8260B	*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	8260B	*1.1072*	**818**	**818**	---	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	8260B	*0.0626*	**1560**	**1850**	---	<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	8260B	---	**1,510**	**1,510**	---	<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**	**8.41**	---	*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**	**1,230**	---	<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	---

TABLE A.1
PRE-REMEDIATION SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	Background Threshold Value	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)							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							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							Moist	Moist	Moist	Moist	Moist	Moist	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date							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																				
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**	---	---	---	---	---	---	---	---	---	---	---	<0.038	<0.038	---	---
1,2-Dichlorobenzene	mg/Kg	8270D	*1.168*	**376**	**376**	---	---	---	---	---	---	---	---	---	---	---	<0.042	<0.042	---	---
1,3-Dichlorobenzene	mg/Kg	8270D	*1.1528*	**297**	**297**	---	---	---	---	---	---	---	---	---	---	---	<0.040	<0.040	---	---
1,4-Dichlorobenzene	mg/Kg	8270D	*0.144*	**3.74**	**16.4**	---	---	---	---	---	---	---	---	---	---	---	<0.045	<0.045	---	---
1-Methylnaphthalene	mg/Kg	8270D	---	**17.6**	**72.7**	---	---	---	---	---	---	---	---	---	---	---	<0.0087	0.27	---	---
2,2'-oxybis[1-chloropropane]	mg/Kg	8270D	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.041	<0.041	---	---
2,4,5-Trichlorophenol	mg/Kg	8270D	---	**6320**	**82,100**	---	---	---	---	---	---	---	---	---	---	---	<0.081	<0.081	---	---
2,4,6-Trichlorophenol	mg/Kg	8270D	---	**49.3**	**209**	---	---	---	---	---	---	---	---	---	---	---	<0.12	<0.12	---	---
2,4-Dichlorophenol	mg/Kg	8270D	---	**190**	**2460**	---	---	---	---	---	---	---	---	---	---	---	<0.084	<0.084	---	---
2,4-Dimethylphenol	mg/Kg	8270D	---	**1260**	**16,400**	---	---	---	---	---	---	---	---	---	---	---	<0.13	<0.13	---	---
2,4-Dinitrophenol	mg/Kg	8270D	---	**126**	**1640**	---	---	---	---	---	---	---	---	---	---	---	<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**	**1.54**	---	---	---	---	---	---	---	---	---	---	---	<0.070	<0.070	---	---
2-Chloronaphthalene	mg/Kg	8270D	---	**4780**	**60,300**	---	---	---	---	---	---	---	---	---	---	---	<0.039	<0.039	---	---
2-Chlorophenol	mg/Kg	8270D	---	**391**	**5,840**	---	---	---	---	---	---	---	---	---	---	---	<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	8270D	---	**627**	**8010**	---	---	---	---	---	---	---	---	---	---	---	<0.048	<0.048	---	---
2-Nitrophenol	mg/Kg	8270D	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.084	<0.084	---	---
3 & 4 Methylphenol	mg/Kg	8270D	---	**9480****	**123,100****	---	---	---	---	---	---	---	---	---	---	---	<0.059	<0.059	---	---
3,3'-Dichlorobenzidine	mg/Kg	8270D	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.050	<0.050	---	---
3-Nitroaniline	mg/Kg	8270D	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<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	8270D	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.041	<0.041	---	---
4-Nitroaniline	mg/Kg	8270D	---	**27.1**	**115**	---	---	---	---	---	---	---	---	---	---	---	<0.15	<0.15	---	---
4-Nitrophenol	mg/Kg	8270D	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.34	<0.34	---	---
Acenaphthene	mg/Kg	8270D	---	**3590**	**45,200**	---	---	---	---	---	---	---	---	---	---	---	<0.0064	<0.0064	---	---
Acenaphthylene	mg/Kg	8270D	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.0047	<0.0047	---	---
Anthracene	mg/Kg	8270D	*196.9492*	**17,900**	**100,000**	---	---	---	---	---	---	---	---	---	---	---	0.016 J	0.087	---	---
Benzo[a]anthracene	mg/Kg	8270D	---	**1.14**	**21**	---	---	---	---	---	---	---	---	---	---	---	0.074	0.36	---	---
Benzo[a]pyrene	mg/Kg	8270D	*0.47*	**0.115**	**2.11**	---	---	---	---	---	---	---	---	---	---	---	0.11	**0.39**	---	---
Benzo[b]fluoranthene	mg/Kg	8270D	*0.4781*	**1.15**	**21.1**	---	---	---	---	---	---	---	---	---	---	---	0.16	*0.59*	---	---
Benzo[g,h,i]perylene	mg/Kg	8270D	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.062	0.18	---	---
Benzo[k]fluoranthene	mg/Kg	8270D	---	**11.5**	**211**	---	---	---	---	---	---	---	---	---	---	---	0.05	0.21	---	---
Benzoic acid	mg/Kg	8270D	---	**100,000**	**100,000**	---	---	---	---	---	---	---	---	---	---	---	<0.35	<0.35	---	---
Benzyl alcohol	mg/Kg	8270D	---	**6320**	**82,100**	---	---	---	---	---	---	---	---	---	---	---	<0.35	<0.35	---	---
Bis(2-chloroethoxy)methane	mg/Kg	8270D	---	**190**	**2460**	---	---	---	---	---	---	---	---	---	---	---	<0.036	<0.036	---	---
Bis(2-chloroethyl)ether	mg/Kg	8270D	---	**0.286**	**1.29**	---	---	---	---	---	---	---	---	---	---	---	<0.053	<0.053	---	---
Bis(2-ethylhexyl) phthalate	mg/Kg	8270D	*2.88*	**38.8**	**164**	---	---	---	---	---	---	---	---	---	---	---	<0.065	0.24	---	---
Butyl benzyl phthalate	mg/Kg	8270D	---	**286**	**1210**	---	---	---	---	---	---	---	---	---	---	---	<0.067	<0.067	---	---
Carbazole	mg/Kg	8270D	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.089	<0.088	---	---
Chrysene	mg/Kg	8270D	*0.1442*	**115**	**2110**	---	---	---	---	---	---	---	---	---	---	---	0.094	*0.45*	---	---
Dibenz(a,h)anthracene	mg/Kg	8270D	---	**0.115**	**2**	---	---	---	---	---	---	---	---	---	---	---	<0.0069	0.055	---	---
Dibenzofuran	mg/Kg	8270D	---	**73**	**1040**	---	---	---	---	---	---	---	---	---	---	---	<0.042	0.11 J	---	---
Diethyl phthalate	mg/Kg	8270D	---	**50,600**	**100,000**	---	---	---	---	---	---	---	---	---	---	---	<0.060	<0.060	---	---
Dimethyl phthalate	mg/Kg	8270D	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.046	<0.046	---	---
Di-n-butyl phthalate	mg/Kg	8270D	*5.0333*	**6320**	**82,100**	---	---	---	---	---	---	---	---	---	---	---	<0.054	<0.054	---	---
Di-n-octyl phthalate	mg/Kg	8270D	*0*	**632**	**8210**	---	---	---	---	---	---	---	---	---	---	---	<0.058	<0.058	---	---
Fluoranthene	mg/Kg	8270D	*88.8778*	**2390**	**30,100**	---	---	---	---	---	---	---	---	---	---	---	0.18	0.84	---	---
Fluorene	mg/Kg	8270D	*14.8299*	**2390**	**30,100**	---	---	---	---	---	---	---	---	---	---	---	0.0054 J	<0.0050	---	---
Hexachlorobenzene	mg/Kg	8270D	*0.0252*	**0.252**	**1.15**	---	---	---	---	---	---	---	---	---	---	---	<0.0082	<0.0082	---	---
Hexachlorobutadiene	mg/Kg	8270D	---	**1.63**	**7.19**	---	---	---	---	---	---	---	---	---	---	---	<0.056	<0.056	---	---
Hexachlorocyclopentadiene	mg/Kg	8270D	---	**2.55**	**10.8**	---	---	---	---	---	---	---	---	---	---	---	<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	---	---
Nitrobenzene	mg/Kg	8270D	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.0088	<0.0088	---	---
N-Nitrosodi-n-propylamine	mg/Kg	8270D	---	**0.078**	**0.328**	---	---	---	---	---	---	---	---	---	---	---	<0.043	<0.043	---	---
N-Nitrosodiphenylamine	mg/Kg	8270D	*0.0764*	**111**	**469**	---	---	---	---	---	---	---	---	---	---	---	<0.042	<0.042	---	---
Pentachlorophenol	mg/Kg	8270D	*0.0028*	**1.02**	**3.97**	---	---	---	---	---	---	---	---	---	---	---	<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	8270D	*54.5455*	**1790**	**22,600**	---	---	---	---	---	---	---	---	---	---	---	0.15	0.68	---	---

TABLE A.1
PRE-REMEDIATION SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	Background Threshold Value	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)							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							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							Moist	Moist	Moist	Moist	Moist	Moist	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date							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
Polycyclic Aromatic Hydrocarbons (PAHs)																				
1-Methylnaphthalene	mg/Kg	8270D	---	**17.6**	**72.7**	---	---	---	---	---	---	---	---	0.066 J	0.77	0.69	---	---	<0.0087	---
2-Methylnaphthalene	mg/Kg	8270D	---	**239**	**3010**	---	---	---	---	---	---	---	---	0.074 J	1.1	0.84	---	---	<0.0066	---
Acenaphthene	mg/Kg	8270D	---	**3590**	**45,200**	---	---	---	---	---	---	---	---	0.1	0.47	0.041	---	---	<0.0064	---
Acenaphthylene	mg/Kg	8270D	---	---	---	---	---	---	---	---	---	---	---	0.023 J	0.052	<0.0050	---	---	<0.0047	---
Anthracene	mg/Kg	8270D	*196.9492*	**17,900**	**100,000**	---	---	---	---	---	---	---	---	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	---
Benzo[g,h,i]perylene	mg/Kg	8270D	---	---	---	---	---	---	---	---	---	---	---	0.4	0.28	0.13	---	---	<0.012	---
Benzo[k]fluoranthene	mg/Kg	8270D	---	**11.5**	**211**	---	---	---	---	---	---	---	---	0.49	0.32	0.14	---	---	<0.011	---
Chrysene	mg/Kg	8270D	*0.1442*	**115**	**2110**	---	---	---	---	---	---	---	---	*1.1*	*0.84*	*0.45*	---	---	<0.0097	---
Dibenz(a,h)anthracene	mg/Kg	8270D	---	**0.115**	**2**	---	---	---	---	---	---	---	---	**0.13**	0.097	0.053	---	---	<0.0069	---
Fluoranthene	mg/Kg	8270D	*88.8778*	**2390**	**30,100**	---	---	---	---	---	---	---	---	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	8270D	---	---	---	---	---	---	---	---	---	---	---	1.4	2.4	0.67	---	---	<0.0050	---
Pyrene	mg/Kg	8270D	*54.5455*	**1790**	**22,600**	---	---	---	---	---	---	---	---	2.1	1.8	0.5	---	---	0.011 J	---
Polychlorinated Biphenyls (PCBs)																				
PCB-1016	mg/Kg	8082A	*0.0094***	**4.11**	**28**	---	---	---	---	---	---	---	---	---	<0.0063	---	<0.0062	<0.0063	---	---
PCB-1221	mg/Kg	8082A	*0.0094***	**0**	**0.883**	---	---	---	---	---	---	---	---	---	<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	mg/Kg	8082A	*0.0094***	**0.236**	**0.975**	---	---	---	---	---	---	---	---	---	<0.0070	---	<0.0070	<0.0070	---	---
PCB-1254	mg/Kg	8082A	*0.0094***	**0.239**	**1**	---	---	---	---	---	---	---	---	---	*0.13*	---	<0.0038	*0.11*	---	---
PCB-1260	mg/Kg	8082A	*0.0094***	**0.243**	**1**	---	---	---	---	---	---	---	---	---	<0.0088	---	<0.0087	<0087	---	---
RCRA Metals																				
Arsenic	mg/Kg	6010B	*0.584*	**0.677**	**3**	8.3	---	---	---	---	---	---	---	5.8	6.2	***18***	1.8	***16***	7.9	---
Barium	mg/Kg	6010B	*164.8*	**15,300**	**100,000**	364	---	---	---	---	---	---	---	69	34	53	15	42	23	---
Cadmium	mg/Kg	6010B	*0.752*	**71.1**	**985**	1	---	---	---	---	---	---	---	0.41 B	0.38 B	<0.21	0.22 B	0.82 B	0.57 B	---
Chromium	mg/Kg	6010B	*360,000**	---	---	44	---	---	---	---	---	---	---	17	15	35	5.5	14	12	---
Copper	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Lead	mg/Kg	6010B	*27*	**400**	**800**	51.6	---	---	---	---	---	---	---	*140*	22	*56*	6.9	*53*	9.5	---
Mercury	mg/Kg	7471A	*0.208*	**3.13**	**3.13**	---	---	---	---	---	---	---	---	0.066	0.091	0.07	<0.0058	0.05	0.0078 J	---
Nickel	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Selenium	mg/Kg	6010B	*0.52*	**391**	**5840**	---	---	---	---	---	---	---	---	<0.65	<0.58	<0.67	<0.54	<0.56	<0.56	---
Silver	mg/Kg	6010B	*0.8491*	**391**	**5840**	---	---	---	---	---	---	---	---	0.28 J	0.18 J	0.72	<0.12	0.22 J	0.21 J	---
Zinc	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Oranochlorine Pesticides																				
4,4'-DDD	mg/Kg	8081A	---	**1.9**	**9.57**	---	---	---	---	---	---	---	---	---	---	---	<0.00035	<0.00036	---	---
4,4'-DDE	mg/Kg	8081A	---	**2**	**9.38**	---	---	---	---	---	---	---	---	---	---	---	0.0013 J	0.003	---	---
4,4'-DDT	mg/Kg	8081A	---	**1.89**	**8.53**	---	---	---	---	---	---	---	---	---	---	---	<0.00093	<0.00094	---	---
Aldrin	mg/Kg	8081A	---	**0.04**	**0.187**	---	---	---	---	---	---	---	---	---	---	---	<0.00073	<0.00074	---	---
alpha-BHC	mg/Kg	8081A	---	**0.086**	**0.365**	---	---	---	---	---	---	---	---	---	---	---	<0.00045	<0.00045	---	---
cis-Chlordane	mg/Kg	8081A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0012 J	<0.00090	---	---
beta-BHC	mg/Kg	8081A	---	**0.301**	**1.28**	---	---	---	---	---	---	---	---	---	---	---	<0.00055	0.023	---	---
delta-BHC	mg/Kg	8081A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.00056	<0.00056	---	---
Dieldrin	mg/Kg	8081A	---	**0.034**	**0.144**	---	---	---	---	---	---	---	---	---	---	---	<0.00024	0.0036	---	---
Endosulfan I	mg/Kg	8081A	---	**469**	**7010**	---	---	---	---	---	---	---	---	---	---	---	<0.00077	<0.00078	---	---
Endosulfan II	mg/Kg	8081A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.00029	<0.00029	---	---
Endosulfan sulfate	mg/Kg	8081A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.00032	<0.00033	---	---
Endrin	mg/Kg	8081A	*0.1616*	**19**	**246**	---	---	---	---	---	---	---	---	---	---	---	<0.00024	<0.00025	---	---
Endrin aldehyde	mg/Kg	8081A	*0.1616*	**19**	**246**	---	---	---	---	---	---	---	---	---	---	---	<0.00030	<0.00030	---	---
Endrin ketone	mg/Kg	8081A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.00040	<0.00040	---	---
gamma-BHC (Lindane)	mg/Kg	8081A	*0.0023*	**0.568**	**2.54**	---	---	---	---	---	---	---	---	---	---	---	<0.00038	<0.00039	---	---
trans-Chlordane	mg/Kg	8081A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.00096 J	<0.00047	---	---
Heptachlor	mg/Kg	8081A	*0.0662*	**0.14**	**0.654**	---	---	---	---	---	---	---	---	---	---	---	<0.00074	<0.00075	---	---
Heptachlor epoxide	mg/Kg	8081A	*0.082*	**0.072**	**0.338**	---	---	---	---	---	---	---	---	---	---	---	<0.00063	<0.00063	---	---
Methoxychlor	mg/Kg	8081A	*4.32*	**316**	**4100**	---	---	---	---	---	---	---	---	---	---	---	<0.00034	<0.00035	---	---
Toxaphene	mg/Kg	8081A	*0.928*	**0.493**	**2.09**	---	---	---	---	---	---	---	---	---	---	---	<0.0075	<0.0075	---	---
Herbicides																				
2,4,5-T	mg/Kg	8151A	---	**632**	**8210**	---	---	---	---	---	---	---	---	---	---	---	<0.085	<0.086	---	---
2,4-D	mg/Kg	8151A	*0.0362*	**699**	**9640**	---	---	---	---	---	---	---	---	---	---	---	<0.099	<0.10	---	---
2,4-DB	mg/Kg	8151A	---	**1900**	**24,600**	---	---	---	---	---	---	---	---	---	---	---	<0.10	<0.10	---	---
Dicamba	mg/Kg	8151A	*0.1553*	**1900**	**24,600**	---	---	---	---	---	---	---	---	---	---	---	<0.073	<0.073	---	---
Dichlorprop	mg/Kg	8151A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.095	<0.096	---	---
Silvex (2,4,5-TP)	mg/Kg	8151A	*0.055*	**506**	**6,570**	---	---	---	---	---	---	---	---	---	---	---	<0.090	<0.090	---	---

TABLE A.1
PRE-REMEDIATION SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	Background Threshold Value	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)							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							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							Moist	Moist	Moist	Moist	Moist	Moist	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date							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	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.094
Perfluorohexanoic acid (PFHxA)	ug/Kg	537	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.051
Perfluoroheptanoic acid (PFHpA)	ug/Kg	537	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.035
Perfluorooctanoic acid (PFOA)	ug/Kg	537	---	**1260**	**16,400**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<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**	**16,400**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	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

TABLE A.1
PRE-REMEDIATION SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	**SS-1**	**SS-6**	**SS-16**	**SS-17**	**SS-19**	**SS-26**	**SS-28**	**SS-32**	**SS-38**	**SS-48**	**SS-51**
Depth (feet)						0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
Soil Type						Silty CLAY	SAND & GRAVEL	SAND & GRAVEL	Gravelly SAND	Sandy GRAVEL	SAND & GRAVEL	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Gravelly SAND
Soil Conditions						Unsaturated	Saturated	Saturated	Unsaturated	Unsaturated	Moist	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date						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)																
1,1,1,2-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	*0.0000282*	**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	<0.028	<0.024	<0.047	<0.024	<0.047	<0.16	<0.022
1,2-Dichloropropane	mg/Kg	8260B	*0.0033*	**3.4**	**15**	<0.032	<0.030	<0.038	<0.028	<0.031	<0.026	<0.051	<0.026	<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	<0.022
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	<0.022	<0.044	<0.15	<0.020
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**	**530**	<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**	**35.4**	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**	**2,260**	<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**	**268**	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**	**1,150**	<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**	**162**	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**	**145**	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	---	**183**	**183**	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**	**1212**	0.34	0.033 J	<0.019	0.04	0.15	0.15	<0.026	<0.013	<0.027	0.42	<0.012

TABLE A.1
PRE-REMEDIATION SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	SS-1	SS-6	SS-16	SS-17	SS-19	SS-26	SS-28	SS-32	SS-38	SS-48	SS-51
Depth (feet)						0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
Soil Type						Silty CLAY	SAND & GRAVEL	SAND & GRAVEL	Gravelly SAND	Sandy GRAVEL	SAND & GRAVEL	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Gravelly SAND
Soil Conditions						Unsaturated	Saturated	Saturated	Unsaturated	Unsaturated	Moist	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date						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)																
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**	**9010**	---	---	---	---	---	---	---	---	---	---	---
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**	**2.11**	---	---	---	---	---	---	---	---	---	---	---
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	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**	---	---	---	---	---	---	---	---	---	---	---
Diethyl phthalate	mg/Kg	8270D	---	**50,600**	**100,000**	---	---	---	---	---	---	---	---	---	---	---
Dimethyl phthalate	mg/Kg	8270D	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Di-n-butyl phthalate	mg/Kg	8270D	*5.0333*	**6320**	**82,100**	---	---	---	---	---	---	---	---	---	---	---
Di-n-octyl phthalate	mg/Kg	8270D	*0*	**632**	**8210**	---	---	---	---	---	---	---	---	---	---	---
Fluoranthene	mg/Kg	8270D	*88.8778*	**2390**	**30,100**	---	---	---	---	---	---	---	---	---	---	---
Fluorene	mg/Kg	8270D	*14.8299*	**2390**	**30,100**	---	---	---	---	---	---	---	---	---	---	---
Hexachlorobenzene	mg/Kg	8270D	*0.0252*	**0.252**	**1.15**	---	---	---	---	---	---	---	---	---	---	---
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	mg/Kg	8270D	---	**571**	**2420**	---	---	---	---	---	---	---	---	---	---	---
Naphthalene	mg/Kg	8270D	*0.6582*	**5.52**	**24.1**	---	---	---	---	---	---	---	---	---	---	---
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**	---	---	---	---	---	---	---	---	---	---	---

TABLE A.1
PRE-REMEDIATION SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	SS-1	SS-6	SS-16	SS-17	SS-19	SS-26	SS-28	SS-32	SS-38	SS-48	SS-51
Depth (feet)						0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
Soil Type						Silty CLAY	SAND & GRAVEL	SAND & GRAVEL	Gravelly SAND	Sandy GRAVEL	SAND & GRAVEL	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Gravelly SAND
Soil Conditions						Unsaturated	Saturated	Saturated	Unsaturated	Unsaturated	Moist	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date						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
Polycyclic Aromatic Hydrocarbons (PAHs)																
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	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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**	---	---	---	---	---	---	---	---	---	---	---
Benzo[g,h,i]perylene	mg/Kg	8270D	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[k]fluoranthene	mg/Kg	8270D	---	**11.5**	**211**	---	---	---	---	---	---	---	---	---	---	---
Chrysene	mg/Kg	8270D	*0.1442*	**115**	**2110**	---	---	---	---	---	---	---	---	---	---	---
Dibenz(a,h)anthracene	mg/Kg	8270D	---	**0.115**	**2**	---	---	---	---	---	---	---	---	---	---	---
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	mg/Kg	8270D	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pyrene	mg/Kg	8270D	*54.5455*	**1790**	**22,600**	---	---	---	---	---	---	---	---	---	---	---
Polychlorinated Biphenyls (PCBs)																
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**	**0.975**	---	---	---	---	---	---	---	---	---	---	---
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**	**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	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Lead	mg/Kg	6010B	*27*	**400**	**800**	---	---	---	---	---	---	---	---	---	---	---
Mercury	mg/Kg	7471A	*0.208*	**3.13**	**3.13**	---	---	---	---	---	---	---	---	---	---	---
Nickel	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Selenium	mg/Kg	6010B	*0.52*	**391**	**5840**	---	---	---	---	---	---	---	---	---	---	---
Silver	mg/Kg	6010B	*0.8491*	**391**	**5840**	---	---	---	---	---	---	---	---	---	---	---
Zinc	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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**	**7010**	---	---	---	---	---	---	---	---	---	---	---
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**	**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*	**0.14**	**0.654**	---	---	---	---	---	---	---	---	---	---	---
Heptachlor epoxide	mg/Kg	8081A	*0.082*	**0.072**	**0.338**	---	---	---	---	---	---	---	---	---	---	---
Methoxychlor	mg/Kg	8081A	*4.32*	**316**	**4100**	---	---	---	---	---	---	---	---	---	---	---
Toxaphene	mg/Kg	8081A	*0.928*	**0.493**	**2.09**	---	---	---	---	---	---	---	---	---	---	---
Herbicides																
2,4,5-T	mg/Kg	8151A	---	**632**	**8210**	---	---	---	---	---	---	---	---	---	---	---
2,4-D	mg/Kg	8151A	*0.0362*	**699**	**9640**	---	---	---	---	---	---	---	---	---	---	---
2,4-DB	mg/Kg	8151A	---	**1900**	**24,600**	---	---	---	---	---	---	---	---	---	---	---
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**	---	---	---	---	---	---	---	---	---	---	---

TABLE A.1
PRE-REMEDIATION SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	**SS-1**	**SS-6**	**SS-16**	**SS-17**	**SS-19**	**SS-26**	**SS-28**	**SS-32**	**SS-38**	**SS-48**	**SS-51**
Depth (feet)						0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
Soil Type						Silty CLAY	SAND & GRAVEL	SAND & GRAVEL	Gravelly SAND	Sandy GRAVEL	SAND & GRAVEL	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Gravelly SAND
Soil Conditions						Unsaturated	Saturated	Saturated	Unsaturated	Unsaturated	Moist	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date						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**	**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	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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

TABLE A.1
PRE-REMEDIATION SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	**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)						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						Sandy CLAY	Clayey SAND	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Sandy CLAY	---	---	---
Soil Conditions						Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Moist	Unsaturated
Sampling Date						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	<0.026	<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**	**35.4**	<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**	**1850**	<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**	<0.038	<0.070	<0.036	<0.038	---	<0.035	<0.036	<0.046	<0.022	<0.023	<0.022
Trichloroethene	mg/Kg	8260B	*0.0036*	**1.3**	**8.41**	*0.034 J*	**2.7**	*0.16*	***13***	---	<0.016	*0.69*	<0.021	*1*	***18***	***14***
Trichlorofluoromethane	mg/Kg	8260B	---	**1,230**	**1,230**	<0.045	<0.083	<0.043	<0.045	---	<0.041	<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	<0.027	---	<0.025	<0.026	<0.034	<0.016	<0.017	<0.016
Xylenes, Total	mg/Kg	8260B	*3.96*	**1,212**	**1212**	<0.023	1.6	0.032 J	<0.023	---	<0.021	<0.022	0.10	0.046	<0.014	<0.014

TABLE A.1
PRE-REMEDIATION SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	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)						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						Sandy CLAY	Clayey SAND	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Sandy CLAY	---	---	---
Soil Conditions						Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Moist	Unsaturated
Sampling Date						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																
1,1-Dichloroethene	mg/L	8260B	---	---	---	---	---	---	---	<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)																
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**	**9010**	---	---	---	---	---	---	---	---	---	---	---
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**	**2.11**	---	---	---	---	---	---	---	---	---	---	---
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	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**	---	---	---	---	---	---	---	---	---	---	---
Diethyl phthalate	mg/Kg	8270D	---	**50,600**	**100,000**	---	---	---	---	---	---	---	---	---	---	---
Dimethyl phthalate	mg/Kg	8270D	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Di-n-butyl phthalate	mg/Kg	8270D	*5.0333*	**6320**	**82,100**	---	---	---	---	---	---	---	---	---	---	---
Di-n-octyl phthalate	mg/Kg	8270D	*0*	**632**	**8210**	---	---	---	---	---	---	---	---	---	---	---
Fluoranthene	mg/Kg	8270D	*88.8778*	**2390**	**30,100**	---	---	---	---	---	---	---	---	---	---	---
Fluorene	mg/Kg	8270D	*14.8299*	**2390**	**30,100**	---	---	---	---	---	---	---	---	---	---	---
Hexachlorobenzene	mg/Kg	8270D	*0.0252*	**0.252**	**1.15**	---	---	---	---	---	---	---	---	---	---	---
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	mg/Kg	8270D	---	**571**	**2420**	---	---	---	---	---	---	---	---	---	---	---
Naphthalene	mg/Kg	8270D	*0.6582*	**5.52**	**24.1**	---	---	---	---	---	---	---	---	---	---	---
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**	---	---	---	---	---	---	---	---	---	---	---

TABLE A.1
PRE-REMEDIATION SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	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)						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						Sandy CLAY	Clayey SAND	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Sandy CLAY	---	---	---
Soil Conditions						Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Moist	Unsaturated
Sampling Date						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
Polycyclic Aromatic Hydrocarbons (PAHs)																
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	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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**	---	---	---	---	---	---	---	---	---	---	---
Benzo[g,h,i]perylene	mg/Kg	8270D	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[k]fluoranthene	mg/Kg	8270D	---	**11.5**	**211**	---	---	---	---	---	---	---	---	---	---	---
Chrysene	mg/Kg	8270D	*0.1442*	**115**	**2110**	---	---	---	---	---	---	---	---	---	---	---
Dibenz(a,h)anthracene	mg/Kg	8270D	---	**0.115**	**2**	---	---	---	---	---	---	---	---	---	---	---
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	mg/Kg	8270D	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pyrene	mg/Kg	8270D	*54.5455*	**1790**	**22,600**	---	---	---	---	---	---	---	---	---	---	---
Polychlorinated Biphenyls (PCBs)																
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**	**0.975**	---	---	---	---	---	---	---	---	---	---	---
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**	**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	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Lead	mg/Kg	6010B	*27*	**400**	**800**	---	---	---	---	---	---	---	---	---	---	---
Mercury	mg/Kg	7471A	*0.208*	**3.13**	**3.13**	---	---	---	---	---	---	---	---	---	---	---
Nickel	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Selenium	mg/Kg	6010B	*0.52*	**391**	**5840**	---	---	---	---	---	---	---	---	---	---	---
Silver	mg/Kg	6010B	*0.8491*	**391**	**5840**	---	---	---	---	---	---	---	---	---	---	---
Zinc	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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**	**7010**	---	---	---	---	---	---	---	---	---	---	---
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**	**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*	**0.14**	**0.654**	---	---	---	---	---	---	---	---	---	---	---
Heptachlor epoxide	mg/Kg	8081A	*0.082*	**0.072**	**0.338**	---	---	---	---	---	---	---	---	---	---	---
Methoxychlor	mg/Kg	8081A	*4.32*	**316**	**4100**	---	---	---	---	---	---	---	---	---	---	---
Toxaphene	mg/Kg	8081A	*0.928*	**0.493**	**2.09**	---	---	---	---	---	---	---	---	---	---	---
Herbicides																
2,4,5-T	mg/Kg	8151A	---	**632**	**8210**	---	---	---	---	---	---	---	---	---	---	---
2,4-D	mg/Kg	8151A	*0.0362*	**699**	**9640**	---	---	---	---	---	---	---	---	---	---	---
2,4-DB	mg/Kg	8151A	---	**1900**	**24,600**	---	---	---	---	---	---	---	---	---	---	---
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**	---	---	---	---	---	---	---	---	---	---	---

TABLE A.1
PRE-REMEDIATION SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	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)						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						Sandy CLAY	Clayey SAND	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Sandy CLAY	---	---	---
Soil Conditions						Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Moist	Unsaturated
Sampling Date						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 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**	**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	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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

TABLE A.1
PRE-REMEDIATION SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	EB-B-17		EB-B-18		EB-B-19/MW-3		EB-B-20/MW-4		EB-B-21/MW-5		EB-B-22		EB-B-23	
Depth (feet)						1-4	16-18	2-4	5-7	1-4.5	6.5-8.5	2-5	23-24	2-4	7-9	1-4	4-6	1-4	4-7
Soil Type						SAND & CLAY	Silty CLAY	FILL	FILL	FILL	FILL / Silty CLAY	FILL	Silty CLAY	FILL	Silty CLAY	GRAVEL	Silty CLAY	Gravelly SAND	Silty CLAY
Soil Conditions						Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date						5/4/2021	5/4/2021	6/3/2021	6/3/2021	7/21/2021	7/21/2021	7/21/2021	7/21/2021	6/3/2021	6/3/2021	5/5/2021	5/5/2021	5/5/2021	5/5/2021
Physical Characteristics																			
Percent Moisture						12.3	15.2	14.6	14.9	11.1	19.5	3	11.9	4.7	16.3	13.2	15.7	12.1	18.7
Percent Solids						87.7	84.8	85.4	85.1	88.9	80.5	97	88.1	95.3	83.7	86.8	84.3	87.9	81.3
Volatile Organic Compounds (VOCs)																			
1,1,1,2-Tetrachloroethane	mg/Kg	8260B	*0.0534*	**2.78**	**12.3**	<0.030 *+	<0.031 *+	<0.032	<0.032	<0.030	<0.034	<0.025	<0.029	<0.025	<0.032	<0.030 *+	<0.031 *+	<0.029 *+	<0.034 *+
1,1,1-Trichloroethane	mg/Kg	8260B	*0.1402*	**640**	**640**	<0.024	<0.026	*8.1*	*0.32*	<0.025	<0.028	<0.020	<0.024	<0.021	<0.026	<0.025	<0.026	0.10	<0.028
1,1,2,2-Tetrachloroethane	mg/Kg	8260B	*0.0002*	**0.81**	**3.6**	<0.026	<0.027	<0.027	<0.027	<0.026	<0.030	<0.021	<0.025	<0.022	<0.027	<0.026	<0.027	<0.025	<0.029
1,1,2-Trichloroethane	mg/Kg	8260B	*0.0032*	**1.59**	**7.01**	<0.023 *+	<0.024 *+	<0.024	<0.024	<0.023	<0.026	<0.019	<0.022	<0.019	<0.024	<0.023 *+	<0.024 *+	<0.022 *+	<0.026 *+
1,1-Dichloroethane	mg/Kg	8260B	*0.4834*	**5.06**	**22.2**	<0.026 *+	*0.78* *+	*0.71*	0.12	<0.027	<0.030	<0.022	<0.026	<0.022	<0.028	<0.027 *+	<0.028 *+	<0.026 *+	<0.030 *+
1,1-Dichloroethene	mg/Kg	8260B	*0.005*	**320**	**1,190**	<0.025	<0.026	*0.26*	<0.027	<0.025	<0.029	<0.021	<0.025	<0.021	<0.027	<0.026	<0.027	<0.025	<0.029
1,1-Dichloropropene	mg/Kg	8260B	---	---	---	<0.019	<0.020	<0.020	<0.020	<0.019	<0.022	<0.016	<0.019	<0.016	<0.021	<0.020	<0.020	<0.019	<0.022
1,2,3-Trichlorobenzene	mg/Kg	8260B	---	**62.6**	**934**	<0.029	<0.031	<0.031	<0.031	<0.030	<0.034	<0.024	<0.029	<0.025	<0.032	<0.030	<0.031	<0.029	<0.034
1,2,3-Trichloropropane	mg/Kg	8260B	*0.0519*	**0.005**	**0.109**	<0.027 *+	<0.028 *+	<0.028	<0.028	<0.027	<0.031	<0.022	<0.026	<0.023	<0.029	<0.027 *+	<0.028 *+	<0.026 *+	<0.031 *+
1,2,4-Trichlorobenzene	mg/Kg	8260B	*0.408*	**24**	**113**	<0.022	<0.023	<0.023	<0.023	<0.022	<0.025	<0.018	<0.022	<0.019	<0.024	<0.022	<0.023	<0.022	<0.025
1,2,4-Trimethylbenzene	mg/Kg	8260B	*1.3787***	**219**	**219**	<0.023	1.2	0.037 J	<0.024	0.043 J	<0.027	<0.019	<0.023	<0.020	<0.025	0.056 J	<0.024	<0.023	<0.026
1,2-Dibromo-3-Chloropropane	mg/Kg	8260B	*0.0002*	**0.008**	**0.092**	<0.13 *+	<0.13 *+	<0.14	<0.14	<0.13	<0.15	<0.11	<0.13	<0.11	<0.14	<0.13 *+ *-	<0.14 *+	<0.13 *+	<0.15 *+
1,2-Dibromoethane	mg/Kg	8260B	*0.0000282*	**0.05**	**0.221**	<0.025 *+	<0.026 *+	<0.026	<0.026	<0.025	<0.029	<0.021	<0.024	<0.021	<0.027	<0.025 *+	<0.026 *+	<0.025 *+	<0.029 *+
1,2-Dichlorobenzene	mg/Kg	8260B	*1.168*	**376**	**376**	<0.021 *+	<0.023 *+	<0.023	<0.023	<0.022	<0.025	<0.018	<0.021	<0.018	<0.023	<0.022 *+	<0.023 *+	<0.021 *+	<0.025 *+
1,2-Dichloroethane	mg/Kg	8260B	*0.0028*	**0.652**	**2.87**	<0.025 *+	<0.027 *+	*0.36*	<0.027	<0.025	<0.029	<0.021	<0.025	<0.021	<0.027	<0.026 *+	<0.027 *+	<0.025 *+	<0.029 *+
1,2-Dichloropropane	mg/Kg	8260B	*0.0033*	**3.4**	**15**	<0.027 *+	<0.029 *+	<0.029	<0.029	<0.028	<0.032	<0.023	<0.027	<0.023	<0.030	<0.028 *+	<0.029 *+	<0.027 *+	<0.032 *+
1,3,5-Trimethylbenzene	mg/Kg	8260B	*1.3787***	**182**	**182**	<0.024	0.96	<0.026	<0.026	<0.025	<0.028	<0.020	<0.024	<0.021	<0.026	<0.025	<0.026	<0.024	<0.028
1,3-Dichlorobenzene	mg/Kg	8260B	*1.1528*	**297**	**297**	<0.026	<0.027	<0.027	<0.027	<0.026	<0.030	<0.021	<0.025	<0.022	<0.028	<0.026	<0.027	<0.025	<0.030
1,3-Dichloropropane	mg/Kg	8260B	*0.0003*	**2.37**	**10.6**	<0.023	<0.025	<0.025	<0.025	<0.023	<0.027	<0.019	<0.023	<0.020	<0.025	<0.024	<0.025	<0.023	<0.027
1,4-Dichlorobenzene	mg/Kg	8260B	*0.144*	**3.74**	**16.4**	<0.023 *+	<0.025 *+	<0.025	<0.025	<0.024	<0.027	<0.019	<0.023	<0.020	<0.025	<0.024 *+	<0.025 *+	<0.023 *+	<0.027 *+
2,2-Dichloropropane	mg/Kg	8260B	---	**191**	**191**	<0.028	<0.030	<0.030	<0.030	<0.029	<0.033	<0.024	<0.028	<0.024	<0.031	<0.029	<0.030	<0.028	<0.033
2-Chlorotoluene	mg/Kg	8260B	---	**907**	**907**	<0.020	<0.021	<0.021	<0.021	<0.020	<0.023	<0.017	<0.020	<0.017	<0.022	<0.021	<0.021	<0.020	<0.023
4-Chlorotoluene	mg/Kg	8260B	---	**253**	**253**	<0.022	<0.024	<0.024	<0.024	<0.023	<0.026	<0.019	<0.022	<0.019	<0.024	<0.023	<0.024	<0.022	<0.026
Benzene	mg/Kg	8260B	*0.0051*	**1.6**	**7.07**	<0.0094 *+	*0.23* *+	*0.011 J*	*0.012 J*	<0.0094	<0.011	<0.0078	<0.0092	<0.0080	<0.010	<0.0096 *+	<0.0099 *+	<0.0093 *+	<0.011 *+
Bromobenzene	mg/Kg	8260B	---	**342**	**679**	<0.023 *+	<0.024 *+	<0.024	<0.024	<0.023	<0.026	<0.019	<0.022	<0.019	<0.025	<0.023 *+	<0.024 *+	<0.023 *+	<0.026 *+
Bromochloromethane	mg/Kg	8260B	---	**216**	**906**	<0.027 *+	<0.029 *+	<0.029	<0.029	<0.028	<0.032	<0.023	<0.027	<0.023	<0.030	<0.028 *+	<0.029 *+	<0.027 *+	<0.032 *+
Bromodichloromethane	mg/Kg	8260B	*0.0003*	**0.418**	**1.83**	<0.024 *+	<0.025 *+	<0.025	<0.025	<0.024	<0.028	<0.020	<0.023	<0.020	<0.026	<0.024 *+	<0.025 *+	<0.024 *+	<0.027 *+
Bromoform	mg/Kg	8260B	*0.0023*	**25.4**	**113**	<0.031 *+	<0.033 *+	<0.033	<0.033	<0.031	<0.036	<0.026	<0.031	<0.026	<0.033	<0.032 *+	<0.033 *+	<0.031 *+	<0.036 *+
Bromomethane	mg/Kg	8260B	*0.0051*	**9.6**	**43**	<0.051 *+	<0.054 *+	<0.054	<0.054	<0.051	<0.059	<0.042	<0.050	<0.043	<0.055	<0.052 *+	<0.054 *+	<0.051 *+	<0.059 *+
Carbon tetrachloride	mg/Kg	8260B	*0.0039*	**0.916**	**4.03**	<0.025	<0.026	<0.026	<0.026	<0.025	<0.029	<0.020	<0.024	<0.021	<0.026	<0.025	<0.026	<0.024	<0.028
Chlorobenzene	mg/Kg	8260B	---	**370**	**761**	<0.025 *+	<0.026 *+	<0.026	<0.026	<0.025	<0.029	<0.021	<0.024	<0.021	<0.027	<0.025 *+	<0.026 *+	<0.025 *+	<0.029 *+
Chloroethane	mg/Kg	8260B	*0.2266*	**2,120**	**2,120**	<0.032 *+	<0.034 *+	<0.034	<0.034	<0.033	<0.037	<0.027	<0.032	<0.028	<0.035	<0.033 *+	<0.034 *+	<0.032 *+	<0.037 *+
Chloroform	mg/Kg	8260B	*0.0033*	**0.454**	**1.98**	<0.024 *+	<0.025 *+	*0.048 J*	<0.025	<0.024	<0.027	<0.020	<0.023	<0.020	<0.026	<0.024 *+	<0.025 *+	<0.024 *+	<0.027 *+
Chloromethane	mg/Kg	8260B	*0.0155*	**159**	**669**	<0.021	<0.022	<0.022	<0.022	<0.021	<0.024	<0.017	<0.020	<0.017	<0.022	<0.021	<0.022	<0.020	<0.024
cis-1,2-Dichloroethene	mg/Kg	8260B	*0.0412*	**156**	**2,340**	<0.026 *+	0.073 *+	*0.21*	*0.14*	<0.026	<0.030	<0.022	<0.026	<0.022	<0.028	<0.027 *+	<0.028 *+	<0.026 *+	<0.030 *+
cis-1,3-Dichloropropene	mg/Kg	8260B	*0.0003*	**1,210**	**1,210**	<0.027	<0.028	<0.028	<0.028	<0.027	<0.031	<0.022	<0.026	<0.023	<0.029	<0.027	<0.028	<0.026	<0.031
Dibromochloromethane	mg/Kg	8260B	*0.032*	**8.28**	**38.9**	<0.031 *+	<0.033 *+	<0.033	<0.033	<0.032	<0.036	<0.026	<0.031	<0.027	<0.034	<0.032 *+ *-	<0.033 *+	<0.031 *+	<0.036 *+
Dibromomethane	mg/Kg	8260B	---	**34**	**143**	<0.017 *+	<0.018 *+	<0.018	<0.018	<0.017	<0.020	<0.014	<0.017	<0.015	<0.019	<0.018 *+	<0.018 *+	<0.017 *+	<0.020 *+
Dichlorodifluoromethane	mg/Kg	8260B	*3.0863*	**126**	**530**	<0.043	<0.046	<0.046	<0.046	<0.044	<0.050	<0.036	<0.043	<0.037	<0.046	<0.044	<0.046	<0.043	<0.050 F1
Ethylbenzene	mg/Kg	8260B	*1.57*	**8.02**	**35.4**	<0.012	0.22	<0.013	<0.013	<0.012	<0.014	<0.0097	<0.012	<0.010	<0.013	<0.012	<0.012	<0.012	<0.014
Hexachlorobutadiene	mg/Kg	8260B	---	**1.63**	**7.19**	<0.029	<0.030	<0.030 *+	<0.030 *+	<0.029	<0.033	<0.024	<0.028	<0.024 *+	<0.031 *+	<0.029	<0.030	<0.028	<0.033
Isopropyl ether	mg/Kg	8260B	---	**2,260**	**2,260**	<0.018	<0.019	<0.019	<0.019	<0.018	<0.020	<0.015	<0.017	<0.015	<0.019	<0.018	<0.019	<0.018	<0.020
Isopropylbenzene	mg/Kg	8260B	---	**268**	**268**	<0.025	<0.026	<0.026	<0.026	<0.025	<0.029	<0.020	<0.024	<0.021	<0.026	<0.025	<0.026	<0.024	<0.028
Methyl tert-butyl ether	mg/Kg	8260B	*0.027*	**63.8**	**282**	<0.025 *+	<0.027 *+	<0.027	<0.027	<0.025	<0.029	<0.021	<0.025	<0.022	<0.027	<0.026 *+	<0.027 *+	<0.025 *+	<0.029 *+
Methylene Chloride	mg/Kg	8260B	*0.0026*	**61.8**	**1,150**	<0.10 *+	<0.11 *+	<0.11	<0.11	<0.11	<0.12	<0.087	<0.10	<0.089	*0.12 JB*	<0.11 *+	<0.11 *+	<0.10 *+	<0.12 *+
Naphthalene	mg/Kg	8260B	*0.658182*	**5.52**	**24.10**	0.025 J	0.063 J	0.059 J	0.95	0.17	0.028 J	<0.018	0.049 J	<0.018	<0.023	0.073	<0.023	0.029 J	<0.025
n-Butylbenzene	mg/Kg	8260B	---	**108**	**108**	<0.025	<0.026	<0.027	<0.027	<0.025	<0.029	<0.021	<0.025	<0.021	<0.027	<0.025	<0.026	<0.025	<0.029
N-Propylbenzene	mg/Kg	8260B	---	**264**	**264**	<0.027	0.036 J	<0.028	<0.028	<0.027	<0.031	<0.022	<0.026	<0.023	<0.029	<0.027	<0.028	<0.026	<0.031
p-Isopropyltoluene	mg/Kg	8260B	---	**162**	**162**	<0.023	0.080	<0.025	<0.025	<0.023	<0.027	<0.019	<0.023	<0.020	<0.025	<0.024	<0.025	<0.023	<0.027
sec-Butylbenzene	mg/Kg	8260B	---	**145**	**145**	<0.026	<0.027	<0.027	<0.027	<0.026	<0.030	<0.021	<0.025	<0.022	<0.027	<0.026	<0.027	<0.025	<0.029
Styrene	mg/Kg	8260B	*0.22*	**867**	**867**	<0.025 *+	<0.026 *+	<0.026	<0.026	<0.025	<0.029	<0.021	<0.024	<0.021	<0.027	<0.025 *+	<0.026 *+	<0.025 *+	<0.029 *+
tert-Butylbenzene	mg/Kg	8260B	---	**183**	**183**	<0.026	<0.027	<0.027	<0.027	<0.026	<0.030	<0.021	<0.025	<0.022	<0.027	<0.026	<0.027	<0.025	<0.029
Tetrachloroethene	mg/Kg	8260B	*0.0045*	**33**	**145**	<0.024	<0.025	*0.041 J* *+	<0.025 *+	<0.024	<0.027	<0.020	<0.023	<0.020 *+	<0.026 *+	<0.024	<0.025	<0.024	<0.027
Toluene	mg/Kg	8260B	*1.1072*	**818**	**818**	<0.0094 *+	0.62 *+	0.022	<0.010	0.038	<0.011	<0.0078	<0.0093	<0.0080	<0.010	0.018 *+	<0.010 *+	0.038 *+	<0.011 *+
trans-1,2-Dichloroethene	mg/Kg	8260B	*0.0626*	**1560**	**1850**	<0.022 *+	<0.024 *+	<0.024	<0.024	<0.023	<0.026	<0.019	<0.022	<0.019	<0.024	<0.023 *+	<0.024 *+	<0.022 *+	<0.026 *+
trans-1,3-Dichloropropene	mg/Kg	8260B	---	**1,510**	**1,510**	<0.023	<0.025	<0.025	<0.025	<0.023	<0.027	<0.019	<0.023	<0.020	<0.025	<0.024	<0.025	<0.023	<0.027
Trichloroethene	mg/Kg	8260B	*0.0036*	**1.3**	**8.41**	*0.23* *+	***8.6*** ***+***	***1.7***	*0.41*	<0.011	<0.012	<0.0087	<0.010	<0.0090	<0.011	<0.011 *+	<0.011 *+	*0.15* *+	<0.012 *+
Trichlorofluoromethane	mg/Kg	8260B	---	**1,230**	**1,230**	<0.027	<0.029	<0.029	<0.029	<0.028	<0.032	<0.023	<0.027	<0.023	<0.030	<0.028	<0.029	<0.027	<0.032
Vinyl chloride	mg/Kg	8260B	*0.0001*	**0.067**	**2.08**	<0.017	<0.018	<0.018	<0.018	<0.017	<0.019	<0.014	<0.017	<0.014	<0.018	<0.017	<0.018	<0.017	<0.019
Xylenes, Total	mg/Kg	8260B	*3.96*	**1,212**	**1212**	<0.014	0.59	0.082	<0.015	0.070	<0.016	<0.012	<0.014	<0.012	<0.015	0.087	<0.015	0.034	<0.016

TABLE A.1
PRE-REMEDIATION SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	EB-B-17		EB-B-18		EB-B-19/MW-3		EB-B-20/MW-4		EB-B-21/MW-5		EB-B-22		EB-B-23	
Depth (feet)						1-4	16-18	2-4	5-7	1-4.5	6.5-8.5	2-5	23-24	2-4	7-9	1-4	4-6	1-4	4-7
Soil Type						SAND & CLAY	Silty CLAY	FILL	FILL	FILL	FILL / Silty CLAY	FILL	Silty CLAY	FILL	Silty CLAY	GRAVEL	Silty CLAY	Gravelly SAND	Silty CLAY
Soil Conditions						Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date						5/4/2021	5/4/2021	6/3/2021	6/3/2021	7/21/2021	7/21/2021	7/21/2021	7/21/2021	6/3/2021	6/3/2021	5/5/2021	5/5/2021	5/5/2021	5/5/2021
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**	---	---	---	---	<0.98	---	<0.037	---	---	---	---	---	---	---
1,2-Dichlorobenzene	mg/Kg	8270D	*1.168*	**376**	**376**	---	---	---	---	<1.1	---	<0.041	---	---	---	---	---	---	---
1,3-Dichlorobenzene	mg/Kg	8270D	*1.1528*	**297**	**297**	---	---	---	---	<1.0	---	<0.038	---	---	---	---	---	---	---
1,4-Dichlorobenzene	mg/Kg	8270D	*0.144*	**3.74**	**16.4**	---	---	---	---	<1.2	---	<0.044	---	---	---	---	---	---	---
1-Methylnaphthalene	mg/Kg	8270D	---	**17.6**	**72.7**	---	---	---	---	0.61 J	---	<0.0083	---	---	---	---	---	---	---
2,2'-oxybis[1-chloropropane]	mg/Kg	8270D	---	---	---	---	---	---	---	<1.1	---	<0.040	---	---	---	---	---	---	---
2,4,5-Trichlorophenol	mg/Kg	8270D	---	**6320**	**82,100**	---	---	---	---	<2.1	---	<0.078	---	---	---	---	---	---	---
2,4,6-Trichlorophenol	mg/Kg	8270D	---	**49.3**	**209**	---	---	---	---	<3.1	---	<0.12	---	---	---	---	---	---	---
2,4-Dichlorophenol	mg/Kg	8270D	---	**190**	**2460**	---	---	---	---	<2.2	---	<0.081	---	---	---	---	---	---	---
2,4-Dimethylphenol	mg/Kg	8270D	---	**1260**	**16,400**	---	---	---	---	<3.5	---	<0.13	---	---	---	---	---	---	---
2,4-Dinitrophenol	mg/Kg	8270D	---	**126**	**1640**	---	---	---	---	<16	---	<0.60	---	---	---	---	---	---	---
2,4-Dinitrotoluene	mg/Kg	8270D	*0.0001*	**1.74**	**7.37**	---	---	---	---	<1.4	---	<0.054	---	---	---	---	---	---	---
2,6-Dinitrotoluene	mg/Kg	8270D	*0.0001*	**0.363**	**1.54**	---	---	---	---	<1.8	---	<0.067	---	---	---	---	---	---	---
2-Chloronaphthalene	mg/Kg	8270D	---	**4780**	**60,300**	---	---	---	---	<1.0	---	<0.038	---	---	---	---	---	---	---
2-Chlorophenol	mg/Kg	8270D	---	**391**	**5,840**	---	---	---	---	<1.6	---	<0.058	---	---	---	---	---	---	---
2-Methylnaphthalene	mg/Kg	8270D	---	**239**	**3010**	---	---	---	---	0.77 J	---	<0.0063	---	---	---	---	---	---	---
2-Methylphenol	mg/Kg	8270D	---	**3160**	**41,000**	---	---	---	---	<1.5	---	<0.055	---	---	---	---	---	---	---
2-Nitroaniline	mg/Kg	8270D	---	**627**	**8010**	---	---	---	---	<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	8270D	---	---	---	---	---	---	---	<7.3	---	<0.27	---	---	---	---	---	---	---
4-Bromophenyl phenyl ether	mg/Kg	8270D	---	---	---	---	---	---	---	<1.2	---	<0.045	---	---	---	---	---	---	---
4-Chloro-3-methylphenol	mg/Kg	8270D	---	**6320**	**82,100**	---	---	---	---	<3.1	---	<0.12	---	---	---	---	---	---	---
4-Chloroaniline	mg/Kg	8270D	---	**2.71**	**11.5**	---	---	---	---	<4.3	---	<0.16	---	---	---	---	---	---	---
4-Chlorophenyl phenyl ether	mg/Kg	8270D	---	---	---	---	---	---	---	<1.1	---	<0.040	---	---	---	---	---	---	---
4-Nitroaniline	mg/Kg	8270D	---	**27.1**	**115**	---	---	---	---	<3.8	---	<0.14	---	---	---	---	---	---	---
4-Nitrophenol	mg/Kg	8270D	---	---	---	---	---	---	---	<8.7	---	<0.32	---	---	---	---	---	---	---
Acenaphthene	mg/Kg	8270D	---	**3590**	**45,200**	---	---	---	---	<0.16	---	<0.0061	---	---	---	---	---	---	---
Acenaphthylene	mg/Kg	8270D	---	---	---	---	---	---	---	0.21 J	---	<0.0045	---	---	---	---	---	---	---
Anthracene	mg/Kg	8270D	*196.9492*	**17,900**	**100,000**	---	---	---	---	0.70 J	---	<0.0057	---	---	---	---	---	---	---
Benzo[a]anthracene	mg/Kg	8270D	---	**1.14**	**21**	---	---	---	---	**14**	---	<0.0046	---	---	---	---	---	---	---
Benzo[a]pyrene	mg/Kg	8270D	*0.47*	**0.115**	**2.11**	---	---	---	---	***18***	---	<0.0066	---	---	---	---	---	---	---
Benzo[b]fluoranthene	mg/Kg	8270D	*0.4781*	**1.15**	**21.1**	---	---	---	---	***42***	---	<0.0074	---	---	---	---	---	---	---
Benzo[g,h,i]perylene	mg/Kg	8270D	---	---	---	---	---	---	---	9.0	---	<0.011	---	---	---	---	---	---	---
Benzo[k]fluoranthene	mg/Kg	8270D	---	**11.5**	**211**	---	---	---	---	**12**	---	<0.010	---	---	---	---	---	---	---
Benzoic acid	mg/Kg	8270D	---	**100,000**	**100,000**	---	---	---	---	<9.0	---	<0.34	---	---	---	---	---	---	---
Benzyl alcohol	mg/Kg	8270D	---	**6320**	**82,100**	---	---	---	---	<9.0	---	<0.34	---	---	---	---	---	---	---
Bis(2-chloroethoxy)methane	mg/Kg	8270D	---	**190**	**2460**	---	---	---	---	<0.93	---	<0.035	---	---	---	---	---	---	---
Bis(2-chloroethyl)ether	mg/Kg	8270D	---	**0.286**	**1.29**	---	---	---	---	<1.4	---	<0.051	---	---	---	---	---	---	---
Bis(2-ethylhexyl) phthalate	mg/Kg	8270D	*2.88*	**38.8**	**164**	---	---	---	---	<1.7	---	<0.062	---	---	---	---	---	---	---
Butyl benzyl phthalate	mg/Kg	8270D	---	**286**	**1210**	---	---	---	---	<1.7	---	<0.065	---	---	---	---	---	---	---
Carbazole	mg/Kg	8270D	---	---	---	---	---	---	---	<2.3	---	<0.085	---	---	---	---	---	---	---
Chrysene	mg/Kg	8270D	*0.1442*	**115**	**2110**	---	---	---	---	*21*	---	<0.0093	---	---	---	---	---	---	---
Dibenz(a,h)anthracene	mg/Kg	8270D	---	**0.115**	***2***	---	---	---	---	**3.7**	---	<0.0066	---	---	---	---	---	---	---
Dibenzofuran	mg/Kg	8270D	---	**73**	**1040**	---	---	---	---	<1.1	---	<0.040	---	---	---	---	---	---	---
Diethyl phthalate	mg/Kg	8270D	---	**50,600**	**100,000**	---	---	---	---	<1.5	---	<0.058	---	---	---	---	---	---	---
Dimethyl phthalate	mg/Kg	8270D	---	---	---	---	---	---	---	<1.2	---	<0.045	---	---	---	---	---	---	---
Di-n-butyl phthalate	mg/Kg	8270D	*5.0333*	**6320**	**82,100**	---	---	---	---	<1.4	---	<0.052	---	---	---	---	---	---	---
Di-n-octyl phthalate	mg/Kg	8270D	*0*	**632**	**8210**	---	---	---	---	<1.5	---	<0.056	---	---	---	---	---	---	---
Fluoranthene	mg/Kg	8270D	*88.8778*	**2390**	**30,100**	---	---	---	---	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**	---	<0.0088	---	---	---	---	---	---	---
Isophorone	mg/Kg	8270D	---	**571**	**2420**	---	---	---	---	<1.0	---	<0.038	---	---	---	---	---	---	---
Naphthalene	mg/Kg	8270D	*0.6582*	**5.52**	**24.1**	---	---	---	---	*0.87 J*	---	<0.0052	---	---	---	---	---	---	---
Nitrobenzene	mg/Kg	8270D	---	---	---	---	---	---	---	<0.23	---	<0.0085	---	---	---	---	---	---	---
N-Nitrosodi-n-propylamine	mg/Kg	8270D	---	**0.078**	**0.328**	---	---	---	---	<1.1	---	<0.042	---	---	---	---	---	---	---
N-Nitrosodiphenylamine	mg/Kg	8270D	*0.0764*	**111**	**469**	---	---	---	---	<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	---	<0.0068	---	---	---	---	---	---	---

TABLE A.1
PRE-REMEDIATION SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	EB-B-17		EB-B-18		EB-B-19/MW-3		EB-B-20/MW-4		EB-B-21/MW-5		EB-B-22		EB-B-23	
Depth (feet)						1-4	16-18	2-4	5-7	1-4.5	6.5-8.5	2-5	23-24	2-4	7-9	1-4	4-6	1-4	4-7
Soil Type						SAND & CLAY	Silty CLAY	FILL	FILL	FILL	FILL / Silty CLAY	FILL	Silty CLAY	FILL	Silty CLAY	GRAVEL	Silty CLAY	Gravelly SAND	Silty CLAY
Soil Conditions						Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date						5/4/2021	5/4/2021	6/3/2021	6/3/2021	7/21/2021	7/21/2021	7/21/2021	7/21/2021	6/3/2021	6/3/2021	5/5/2021	5/5/2021	5/5/2021	5/5/2021
Polycyclic Aromatic Hydrocarbons (PAHs)																			
1-Methylnaphthalene	mg/Kg	8270D	---	**17.6**	**72.7**	0.042 J	<0.0093	0.16	1.7	---	0.014 J	---	<0.0092	0.33	<0.0095	0.039 J	<0.0095	0.19 J	0.041 J
2-Methylnaphthalene	mg/Kg	8270D	---	**239**	**3010**	0.018 J	<0.0070	0.18	2.2	---	0.020 J	---	<0.0069	0.37	<0.0071	0.012 J	<0.0072	0.067 J	0.015 J
Acenaphthene	mg/Kg	8270D	---	**3590**	**45,200**	0.071	<0.0068	0.031 J	5.3	---	0.053	---	<0.0067	0.41	<0.0070	0.037 J	<0.0070	0.25	0.042
Acenaphthylene	mg/Kg	8270D	---	---	---	0.025 J	<0.0050	0.017 J	0.55 J	---	<0.0054	---	<0.0049	0.45	<0.0051	0.014 J	<0.0051	0.044 J	0.0065 J
Anthracene	mg/Kg	8270D	*196.9492*	**17,900**	**100,000**	0.17	<0.0063	0.075	8.8	---	0.035 J	---	<0.0063	0.68	<0.0065	0.038	<0.0065	0.45	0.016 J
Benzo[a]anthracene	mg/Kg	8270D	---	**1.14**	**21**	0.87	<0.0051	0.34	**9.2**	---	0.13	---	<0.0050	**1.9**	0.0073JB	0.23	0.029 J	**2.5**	0.068
Benzo[a]pyrene	mg/Kg	8270D	*0.47*	**0.115**	**2.11**	***0.91***	<0.0073	*0.4*	**9.9**	---	**0.17**	---	<0.0073	***1.9***	<0.0075	**0.21**	0.031 J	***2.4***	0.062
Benzo[b]fluoranthene	mg/Kg	8270D	*0.4781*	**1.15**	**21.1**	*1.1*	<0.0082	*0.56*	***12***	---	0.18	---	<0.0081	*0.73*	<0.0084	0.21	0.027 J	***3.5***	0.077
Benzo[g,h,i]perylene	mg/Kg	8270D	---	---	---	0.43	<0.012	0.2	2.7	---	0.079	---	<0.012	1.9	<0.012	0.11	0.013 J	1.1	0.036 J
Benzo[k]fluoranthene	mg/Kg	8270D	---	**11.5**	**211**	0.36	<0.011	0.23	3.4	---	0.086	---	<0.011	0.23	<0.011	0.12	<0.012	1.4	0.016 J
Chrysene	mg/Kg	8270D	*0.1442*	**115**	**2110**	*1.0*	<0.010	*0.43*	*9.3*	---	0.14	---	<0.010	*0.82*	<0.011	*0.23*	0.037 J	3.2	0.075
Dibenz(a,h)anthracene	mg/Kg	8270D	---	**0.115**	**2**	**0.12**	<0.0073	0.061	**0.97**	---	0.029 J	---	<0.0072	**0.76**	<0.0075	0.027 J	<0.0075	**0.27**	<0.0078
Fluoranthene	mg/Kg	8270D	*88.8778*	**2390**	**30,100**	2.0	<0.0070	0.63	22	---	0.22	---	<0.0070	1.3	<0.0072	0.42	0.042	7.5	0.12
Fluorene	mg/Kg	8270D	*14.8299*	**2390**	**30,100**	0.056	<0.0053	0.027 J	5.6	---	0.025 J	---	<0.0053	3	<0.0054	0.014 J	<0.0055	0.22	0.019 J
Indeno[1,2,3-cd]pyrene	mg/Kg	8270D	---	**1.15**	**21.1**	0.43	<0.0098	0.19	**2.9**	---	0.076	---	<0.0097	**1.5**	<0.010	0.10	0.014 J	1.1	0.035 J
Naphthalene	mg/Kg	8270D	*0.6582*	**5.52**	**24.1**	0.030 J	<0.0058	0.12	*5*	---	0.028 J	---	<0.0058	**7.7**	<0.0060	0.014 J	<0.0060	0.052 J	0.028 J
Phenanthrene	mg/Kg	8270D	---	---	---	0.96	<0.0053	0.5	28	---	0.17	---	<0.0052	8	<0.0054	0.16	0.026 J	3.7	0.091
Pyrene	mg/Kg	8270D	*54.5455*	**1790**	**22,600**	1.9	<0.0075	0.64	24	---	0.19	---	<0.0075	6.1	0.0089 J	0.47	0.051	6.2	0.15
Polychlorinated Biphenyls (PCBs)																			
PCB-1016	mg/Kg	8082A	*0.0094****	**4.11**	**28**	<0.0067	---	---	---	<0.0073	---	<0.0067	---	---	---	<0.0067		<0.0067	---
PCB-1221	mg/Kg	8082A	*0.0094****	**0**	**0.883**	<0.0084	---	---	---	<0.0073	---	<0.0067	---	---	---	<0.0084		<0.0083	---
PCB-1232	mg/Kg	8082A	*0.0094****	**0.19**	**0.792**	<0.0083	---	---	---	<0.0051	---	<0.0046	---	---	---	<0.0083		<0.0082	---
PCB-1242	mg/Kg	8082A	*0.0094****	**0.235**	**0.972**	<0.0062	---	---	---	<0.0073	---	<0.0066	---	---	---	<0.0063		<0.0062	---
PCB-1248	mg/Kg	8082A	*0.0094****	**0.236**	**0.975**	<0.0075	---	---	---	<0.0089	---	<0.0081	---	---	---	<0.0075		<0.0075	---
PCB-1254	mg/Kg	8082A	*0.0094****	**0.239**	**1**	<0.0041	---	---	---	<0.0063	---	<0.0058	---	---	---	<0.0041		*0.12*	---
PCB-1260	mg/Kg	8082A	*0.0094****	**0.243**	**1**	<0.0093 F1	---	---	---	<0.0071	---	<0.0064	---	---	---	<0.0094		<0.0093	---
RCRA Metals																			
Arsenic	mg/Kg	6010B	*0.584*	**0.677**	**3**	3.7 F2	---	---	---	---	---	---	---	---	---	7.4	---	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	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Lead	mg/Kg	6010B	*27*	**400**	**800**	36 F1 F2 V	---	---	---	---	---	---	---	---	---	32	---	43	---
Mercury	mg/Kg	7471A	*0.208*	**3.13**	**3.13**	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nickel	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Selenium	mg/Kg	6010B	*0.52*	**391**	**5840**	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver	mg/Kg	6010B	*0.8491*	**391**	**5840**	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Zinc	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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**	**1.28**	---	---	---	---	<0.0051	---	<0.00092	---	---	---	---	---	---	---
delta-BHC	mg/Kg	8081A	---	---	---	---	---	---	---	<0.0045	---	<0.00083	---	---	---	---	---	---	---
Dieldrin	mg/Kg	8081A	---	**0.034**	**0.144**	---	---	---	---	<0.0049	---	<0.00090	---	---	---	---	---	---	---
Endosulfan I	mg/Kg	8081A	---	**469**	**7010**	---	---	---	---	<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**	**246**	---	---	---	---	<0.0048	---	<0.00088	---	---	---	---	---	---	---
Endrin aldehyde	mg/Kg	8081A	*0.1616*	**19**	**246**	---	---	---	---	<0.0054	---	<0.00098	---	---	---	---	---	---	---
Endrin ketone	mg/Kg	8081A	---	---	---	---	---	---	---	<0.0046	---	<0.00084	---	---	---	---	---	---	---
gamma-BHC (Lindane)	mg/Kg	8081A	*0.0023*	**0.568**	**2.54**	---	---	---	---	<0.0047	---	<0.00086	---	---	---	---	---	---	---
trans-Chlordane	mg/Kg	8081A	---	---	---	---	---	---	---	<0.0054	---	<0.00099	---	---	---	---	---	---	---
Heptachlor	mg/Kg	8081A	*0.0662*	**0.14**	**0.654**	---	---	---	---	<0.0051	---	<0.00093	---	---	---	---	---	---	---
Heptachlor epoxide	mg/Kg	8081A	*0.082*	**0.072**	**0.338**	---	---	---	---	<0.0051	---	<0.00093	---	---	---	---	---	---	---
Methoxychlor	mg/Kg	8081A	*4.32*	**316**	**4100**	---	---	---	---	<0.0062	---	<0.0011	---	---	---	---	---	---	---
Toxaphene	mg/Kg	8081A	*0.928*	**0.493**	**2.09**	---	---	---	---	<0.038	---	<0.0069	---	---	---	---	---	---	---
Herbicides																			
2,4,5-T	mg/Kg	8151A	---	**632**	**8210**	---	---	---	---	<0.013	---	<0.0023	---	---	---	---	---	---	---
2,4-D	mg/Kg	8151A	*0.0362*	**699**	**9640**	---	---	---	---	<0.077	---	<0.014	---	---	---	---	---	---	---
2,4-DB	mg/Kg	8151A	---	**1900**	**24,600**	---	---	---	---	0.055 J	---	<0.0076	---	---	---	---	---	---	---
Dicamba	mg/Kg	8151A	*0.1553*	**1900**	**24,600**	---	---	---	---	<0.0077	---	<0.0014	---	---	---	---	---	---	---
Dichlorprop	mg/Kg	8151A	---	---	---	---	---	---	---	<0.018	---	<0.0033	---	---	---	---	---	---	---
Silvex (2,4,5-TP)	mg/Kg	8151A	*0.055*	**506**	**6,570**	---	---	---	---	<0.0077	---	<0.0014	---	---	---	---	---	---	---

TABLE A.1
PRE-REMEDIATION SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	EB-B-17		EB-B-18		EB-B-19/MW-3		EB-B-20/MW-4		EB-B-21/MW-5		EB-B-22		EB-B-23	
Depth (feet)						1-4	16-18	2-4	5-7	1-4.5	6.5-8.5	2-5	23-24	2-4	7-9	1-4	4-6	1-4	4-7
Soil Type						SAND & CLAY	Silty CLAY	FILL	FILL	FILL	FILL / Silty CLAY	FILL	Silty CLAY	FILL	Silty CLAY	GRAVEL	Silty CLAY	Gravelly SAND	Silty CLAY
Soil Conditions						Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Date						5/4/2021	5/4/2021	6/3/2021	6/3/2021	7/21/2021	7/21/2021	7/21/2021	7/21/2021	6/3/2021	6/3/2021	5/5/2021	5/5/2021	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**	**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**	**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	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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

TABLE A.1
PRE-REMEDIATION SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441

Sample						**EB-B-24**		**EB-B-25**		**EB-B-26**		**EB-B-27/MW-6**		**EB-B-28**		**EB-B-29**		**EB-B-30**	
Depth (feet)						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	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	FILL	Silty CLAY	FILL	Silty CLAY	FILL	FILL / Silty CLAY	FILL	Silty/Sandy CLAY	Silty CLAY	SAND & CLAY	Silty CLAY	Silty CLAY	Silty CLAY	SAND & CLAY
Soil Conditions						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
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**	**12.3**	<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**	**640**	<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**	**3.6**	<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**	**7.01**	<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**	**22.2**	<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**	**1,190**	<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	---	**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**	**0.109**	<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
1,2,4-Trichlorobenzene	mg/Kg	8260B	*0.408*	**24**	**113**	<0.021	<0.021	<0.032	<0.021	<0.017	<0.021	<0.020	<0.020	<0.023	<0.020	<0.021	<0.021	<0.024	<0.022
1,2,4-Trimethylbenzene	mg/Kg	8260B	*1.3787***	**219**	**219**	<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-Dibromo-3-Chloropropane	mg/Kg	8260B	*0.0002*	**0.008**	**0.092**	<0.12	<0.12	<0.19	<0.12	<0.097	<0.12	<0.12	<0.11	<0.14	<0.12	<0.12	<0.12	<0.14	<0.13
1,2-Dibromoethane	mg/Kg	8260B	*0.0000282*	**0.05**	**0.221**	<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
1,2-Dichlorobenzene	mg/Kg	8260B	*1.168*	**376**	**376**	<0.021	<0.020	<0.031	<0.021	<0.016	<0.020	<0.020	<0.019	<0.023	<0.020	<0.020	<0.021	<0.024	<0.022
1,2-Dichloroethane	mg/Kg	8260B	*0.0028*	**0.652**	**2.87**	<0.024	<0.024	<0.036	<0.024	<0.019	<0.024	<0.023	<0.023	<0.027	<0.023	<0.024	<0.024	<0.028	<0.025
1,2-Dichloropropane	mg/Kg	8260B	*0.0033*	**3.4**	**15**	<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
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	<0.023	<0.027	<0.024	<0.024	<0.025	<0.028	<0.026
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**	**191**	<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**	**253**	<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**	**7.07**	<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**	**679**	<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**	**906**	<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**	**1.83**	<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	<0.074	<0.049	<0.039	<0.049	<0.047	<0.046	<0.054	<0.047	<0.048	<0.049	<0.056	<0.051
Carbon tetrachloride	mg/Kg	8260B	*0.0039*	**0.916**	**4.03**	<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
Chlorobenzene	mg/Kg	8260B	---	**370**	**761**	<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
Chloroethane	mg/Kg	8260B	*0.2266*	**2,120**	**2,120**	<0.031	<0.031	<0.047	<0.031	<0.024	<0.031	<0.030	<0.029	<0.034	<0.030	<0.031	<0.031	<0.036	<0.032
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	<0.021
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**	**35.4**	<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**	**7.19**	<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**	**2,260**	<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**	**268**	<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**	**282**	<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**	**1,150**	<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**	**24.10**	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**	**264**	<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**	**162**	<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	---	**145**	**145**	<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**	**867**	<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	mg/Kg	8260B	---	**183**	**183**	<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**	**145**	<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**	<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**	<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	---	**1,510**	**1,510**	<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
Trichloroethene	mg/Kg	8260B	*0.0036*	**1.3**	**8.41**	<0.010	<0.010	0.36	<0.010	<0.0080	0.062	<0.0096	<0.0094	***5.4***	<0.0097	***87***	*0.026 J*	*0.90*	<0.011
Trichlorofluoromethane	mg/Kg	8260B	---	**1,230**	**1,230**	<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
Vinyl chloride	mg/Kg	8260B	*0.0001*	**0.067**	**2.08**	<0.016	<0.016	<0.024	<0.016	<0.013	<0.016	<0.015	<0.015	<0.018	<0.015	<0.016	<0.016	<0.019	<0.017
Xylenes, Total	mg/Kg	8260B	*3.96*	**1,212**	**1212**	<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 A.1
PRE-REMEDIATION SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	EB-B-24		EB-B-25		EB-B-26		EB-B-27/MW-6		EB-B-28		EB-B-29		EB-B-30	
Depth (feet)						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						FILL	Silty CLAY	FILL	Silty CLAY	FILL	FILL / Silty CLAY	FILL	Silty/Sandy CLAY	Silty CLAY	SAND & CLAY	Silty CLAY	Silty CLAY	Silty CLAY	SAND & CLAY
Soil Conditions						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
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**	---	---	---	---	<0.036	---	---	---	---	---	---	---	---	---
1,2-Dichlorobenzene	mg/Kg	8270D	*1.168*	**376**	**376**	---	---	---	---	<0.040	---	---	---	---	---	---	---	---	---
1,3-Dichlorobenzene	mg/Kg	8270D	*1.1528*	**297**	**297**	---	---	---	---	<0.038	---	---	---	---	---	---	---	---	---
1,4-Dichlorobenzene	mg/Kg	8270D	*0.144*	**3.74**	**16.4**	---	---	---	---	<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	mg/Kg	8270D	---	**190**	**2460**	---	---	---	---	<0.080	---	---	---	---	---	---	---	---	---
2,4-Dimethylphenol	mg/Kg	8270D	---	**1260**	**16,400**	---	---	---	---	<0.13	---	---	---	---	---	---	---	---	---
2,4-Dinitrophenol	mg/Kg	8270D	---	**126**	**1640**	---	---	---	---	<0.59	---	---	---	---	---	---	---	---	---
2,4-Dinitrotoluene	mg/Kg	8270D	*0.0001*	**1.74**	**7.37**	---	---	---	---	<0.054	---	---	---	---	---	---	---	---	---
2,6-Dinitrotoluene	mg/Kg	8270D	*0.0001*	**0.363**	**1.54**	---	---	---	---	<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	---	---	---	---	---	---	---	---	---
3 & 4 Methylphenol	mg/Kg	8270D	---	**9480****	**123,100****	---	---	---	---	<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	---	---	---	---	---	---	---	---	---
Acenaphthene	mg/Kg	8270D	---	**3590**	**45,200**	---	---	---	---	<0.0061	---	---	---	---	---	---	---	---	---
Acenaphthylene	mg/Kg	8270D	---	---	---	---	---	---	---	<0.0045	---	---	---	---	---	---	---	---	---
Anthracene	mg/Kg	8270D	*196.9492*	**17,900**	**100,000**	---	---	---	---	<0.0056	---	---	---	---	---	---	---	---	---
Benzo[a]anthracene	mg/Kg	8270D	---	**1.14**	**21**	---	---	---	---	0.0080 J	---	---	---	---	---	---	---	---	---
Benzo[a]pyrene	mg/Kg	8270D	*0.47*	**0.115**	**2.11**	---	---	---	---	0.0073 J	---	---	---	---	---	---	---	---	---
Benzo[b]fluoranthene	mg/Kg	8270D	*0.4781*	**1.15**	**21.1**	---	---	---	---	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**	**82,100**	---	---	---	---	<0.34	---	---	---	---	---	---	---	---	---
Bis(2-chloroethoxy)methane	mg/Kg	8270D	---	**190**	**2460**	---	---	---	---	<0.034	---	---	---	---	---	---	---	---	---
Bis(2-chloroethyl)ether	mg/Kg	8270D	---	**0.286**	**1.29**	---	---	---	---	<0.051	---	---	---	---	---	---	---	---	---
Bis(2-ethylhexyl) phthalate	mg/Kg	8270D	*2.88*	**38.8**	**164**	---	---	---	---	<0.062	---	---	---	---	---	---	---	---	---
Butyl benzyl phthalate	mg/Kg	8270D	---	**286**	**1210**	---	---	---	---	<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	---	---	---	---	---	---	---	---	---
Dibenzofuran	mg/Kg	8270D	---	**73**	**1040**	---	---	---	---	<0.040	---	---	---	---	---	---	---	---	---
Diethyl phthalate	mg/Kg	8270D	---	**50,600**	**100,000**	---	---	---	---	<0.057	---	---	---	---	---	---	---	---	---
Dimethyl phthalate	mg/Kg	8270D	---	---	---	---	---	---	---	<0.044	---	---	---	---	---	---	---	---	---
Di-n-butyl phthalate	mg/Kg	8270D	*5.0333*	**6320**	**82,100**	---	---	---	---	<0.051	---	---	---	---	---	---	---	---	---
Di-n-octyl phthalate	mg/Kg	8270D	*0*	**632**	**8210**	---	---	---	---	<0.055	---	---	---	---	---	---	---	---	---
Fluoranthene	mg/Kg	8270D	*88.8778*	**2390**	**30,100**	---	---	---	---	0.016 J	---	---	---	---	---	---	---	---	---
Fluorene	mg/Kg	8270D	*14.8299*	**2390**	**30,100**	---	---	---	---	<0.0047	---	---	---	---	---	---	---	---	---
Hexachlorobenzene	mg/Kg	8270D	*0.0252*	**0.252**	**1.15**	---	---	---	---	<0.0078	---	---	---	---	---	---	---	---	---
Hexachlorobutadiene	mg/Kg	8270D	---	**1.63**	**7.19**	---	---	---	---	<0.053	---	---	---	---	---	---	---	---	---
Hexachlorocyclopentadiene	mg/Kg	8270D	---	**2.55**	**10.8**	---	---	---	---	<0.19	---	---	---	---	---	---	---	---	---
Hexachloroethane	mg/Kg	8270D	---	**2.52**	**11.1**	---	---	---	---	<0.051	---	---	---	---	---	---	---	---	---
Indeno[1,2,3-cd]pyrene	mg/Kg	8270D	---	**1.15**	**21.1**	---	---	---	---	<0.0088	---	---	---	---	---	---	---	---	---
Isophorone	mg/Kg	8270D	---	**571**	**2420**	---	---	---	---	<0.038	---	---	---	---	---	---	---	---	---
Naphthalene	mg/Kg	8270D	*0.6582*	**5.52**	**24.1**	---	---	---	---	<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	---	---	---	---	---	---	---	---	---

TABLE A.1
PRE-REMEDIATION SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441

Sample						EB-B-24		EB-B-25		EB-B-26		EB-B-27/MW-6		EB-B-28		EB-B-29		EB-B-30	
Depth (feet)						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	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	FILL	Silty CLAY	FILL	Silty CLAY	FILL	FILL / Silty CLAY	FILL	Silty/Sandy CLAY	Silty CLAY	SAND & CLAY	Silty CLAY	Silty CLAY	Silty CLAY	SAND & CLAY
Soil Conditions						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
Polycyclic Aromatic Hydrocarbons (PAHs)																			
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	<0.0072	<0.0066
Acenaphthylene	mg/Kg	8270D	---	---	---	0.012 J	<0.0047	0.0065 J	<0.0049	---	<0.0049	<0.0046	<0.0046	<0.0051	<0.0047	<0.0048	<0.0047	<0.0053	<0.0048
Anthracene	mg/Kg	8270D	*196.9492*	**17,900**	**100,000**	0.55	<0.0060	0.052	0.049	---	0.011 J	<0.0058	0.0074 J	<0.0065	<0.0060	<0.0060	0.0077 J	<0.0067	0.0067 J
Benzo[a]anthracene	mg/Kg	8270D	---	**1.14**	**21**	**1.3**	<0.0048	0.13	0.058	---	0.038	0.011 J	<0.0047	<0.0052	<0.0048	<0.0049	<0.0048	<0.0054	<0.0049
Benzo[a]pyrene	mg/Kg	8270D	*0.47*	**0.115**	**2.11**	***1.4***	<0.0069	**0.13**	0.048	---	0.035 J	<0.0067	<0.0067	<0.0075	<0.0069	<0.0070	<0.0069	<0.0078	<0.0071
Benzo[b]fluoranthene	mg/Kg	8270D	*0.4781*	**1.15**	**21.1**	***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**	**211**	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**	**2110**	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**	**2**	**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**	**30,100**	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**	**30,100**	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**	**21.1**	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**	**24.1**	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	8082A	*0.0094***	**0.19**	**0.792**	---	---	---	---	<0.0051	---	---	---	---	---	---	---	---	---
PCB-1242	mg/Kg	8082A	*0.0094***	**0.235**	**0.972**	---	---	---	---	<0.0073	---	---	---	---	---	---	---	---	---
PCB-1248	mg/Kg	8082A	*0.0094***	**0.236**	**0.975**	---	---	---	---	<0.0089	---	---	---	---	---	---	---	---	---
PCB-1254	mg/Kg	8082A	*0.0094***	**0.239**	**1**	---	---	---	---	<0.0063	---	---	---	---	---	---	---	---	---
PCB-1260	mg/Kg	8082A	*0.0094***	**0.243**	**1**	---	---	---	---	<0.0071	---	---	---	---	---	---	---	---	---
RCRA Metals																			
Arsenic	mg/Kg	6010B	*0.584*	**0.677**	**3**	---	---	---	---	---	---	2.7	---	4.3	---	3.7	---	2.8	---
Barium	mg/Kg	6010B	*164.8*	**15,300**	**100,000**	---	---	---	---	---	---	24	---	130	---	22	---	58	---
Cadmium	mg/Kg	6010B	*0.752*	**71.1**	**985**	---	---	---	---	---	---	0.14 J	---	0.16 J	---	0.089 J	---	0.15 J	---
Chromium	mg/Kg	6010B	*360,000**	---	---	---	---	---	---	---	---	13	---	23	---	13	---	24	---
Copper	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Lead	mg/Kg	6010B	*27*	**400**	**800**	---	---	---	---	---	---	7.5 B	---	22 B	---	8.7 B	---	8.6 B	---
Mercury	mg/Kg	7471A	*0.208*	**3.13**	**3.13**	---	---	---	---	---	---	0.0082 J	---	0.029	---	0.0096 J	---	0.020	---
Nickel	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Selenium	mg/Kg	6010B	*0.52*	**391**	**5840**	---	---	---	---	---	---	<0.60	---	<0.69	---	<0.60	---	*1.6*	---
Silver	mg/Kg	6010B	*0.8491*	**391**	**5840**	---	---	---	---	---	---	0.20 J B	---	0.21 J B	---	0.17 J B	---	0.28 J B	---
Zinc	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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**	**8.53**	---	---	---	---	<0.00082	---	---	---	---	---	---	---	---	---
Aldrin	mg/Kg	8081A	---	**0.04**	**0.187**	---	---	---	---	<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**	**1.28**	---	---	---	---	<0.00093	---	---	---	---	---	---	---	---	---
delta-BHC	mg/Kg	8081A	---	---	---	---	---	---	---	<0.00083	---	---	---	---	---	---	---	---	---
Dieldrin	mg/Kg	8081A	---	**0.034**	**0.144**	---	---	---	---	<0.00091	---	---	---	---	---	---	---	---	---
Endosulfan I	mg/Kg	8081A	---	**469**	**7010**	---	---	---	---	<0.00094	---	---	---	---	---	---	---	---	---
Endosulfan II	mg/Kg	8081A	---	---	---	---	---	---	---	<0.00095	---	---	---	---	---	---	---	---	---
Endosulfan sulfate	mg/Kg	8081A	---	---	---	---	---	---	---	<0.00096	---	---	---	---	---	---	---	---	---
Endrin	mg/Kg	8081A	*0.1616*	**19**	**246**	---	---	---	---	<0.00088	---	---	---	---	---	---	---	---	---
Endrin aldehyde	mg/Kg	8081A	*0.1616*	**19**	**246**	---	---	---	---	<0.00099	---	---	---	---	---	---	---	---	---
Endrin ketone	mg/Kg	8081A	---	---	---	---	---	---	---	<0.00084	---	---	---	---	---	---	---	---	---
gamma-BHC (Lindane)	mg/Kg	8081A	*0.0023*	**0.568**	**2.54**	---	---	---	---	<0.00086	---	---	---	---	---	---	---	---	---
trans-Chlordane	mg/Kg	8081A	---	---	---	---	---	---	---	<0.0010	---	---	---	---	---	---	---	---	---
Heptachlor	mg/Kg	8081A	*0.0662*	**0.14**	**0.654**	---	---	---	---	<0.00094	---	---	---	---	---	---	---	---	---
Heptachlor epoxide	mg/Kg	8081A	*0.082*	**0.072**	**0.338**	---	---	---	---	<0.00093	---	---	---	---	---	---	---	---	---
Methoxychlor	mg/Kg	8081A	*4.32*	**316**	**4100**	---	---	---	---	<0.0011	---	---	---	---	---	---	---	---	---
Toxaphene	mg/Kg	8081A	*0.928*	**0.493**	**2.09**	---	---	---	---	<0.0069	---	---	---	---	---	---	---	---	---
Herbicides																			
2,4,5-T	mg/Kg	8151A	---	**632**	**8210**	---	---	---	---	<0.013	---	---	---	---	---	---	---	---	---
2,4-D	mg/Kg	8151A	*0.0362*	**699**	**9640**	---	---	---	---	<0.077	---	---	---	---	---	---	---	---	---
2,4-DB	mg/Kg	8151A	---	**1900**	**24,600**	---	---	---	---	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	---	---	---	---	---	---	---	---	---

TABLE A.1
PRE-REMEDIATION SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	EB-B-24		EB-B-25		EB-B-26		EB-B-27/MW-6		EB-B-28		EB-B-29		EB-B-30	
Depth (feet)						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						FILL	Silty CLAY	FILL	Silty CLAY	FILL	FILL / Silty CLAY	FILL	Silty/Sandy CLAY	Silty CLAY	SAND & CLAY	Silty CLAY	Silty CLAY	Silty CLAY	SAND & CLAY
Soil Conditions						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
Method 537 (modified) - Fluorinated Alkyl Substances																			
Perfluorobutanoic acid (PFBA)	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000048	---	0.000078 J	---	<0.000047	---	<0.000053	---
Perfluoropentanoic acid (PFPeA)	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000043	---	<0.000048	---	<0.000042	---	<0.000047	---
Perfluorohexanoic acid (PFHxA)	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000032	---	<0.000036	---	<0.000032	---	<0.000035	---
Perfluoroheptanoic acid (PFHpA)	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000040	---	<0.000044	---	<0.000039	---	<0.000043	---
Perfluorooctanoic acid (PFOA)	ug/Kg	537	---	**1260**	**16,400**	---	---	---	---	---	---	<0.000055	---	0.000063 J I	---	<0.000054	---	<0.000061	---
Perfluorononanoic acid (PFNA)	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000023	---	<0.000026	---	<0.000023	---	<0.000025	---
Perfluorodecanoic acid (PFDA)	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000050	---	<0.000056	---	<0.000049	---	<0.000055	---
Perfluoroundecanoic acid (PFUnA)	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000044	---	<0.000049	---	<0.000043	---	<0.000048	---
Perfluorododecanoic acid (PFDoA)	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000031	---	<0.000035	---	<0.000031	---	<0.000034	---
Perfluorotridecanoic acid (PFTriA)	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000022	---	<0.000024	---	<0.000022	---	<0.000024	---
Perfluorotetradecanoic acid (PFTeA)	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000039	---	<0.000043	---	<0.000038	---	<0.000042	---
Perfluoro-n-hexadecanoic acid (PFHxDA)	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000040	---	<0.000044	---	<0.000039	---	<0.000043	---
Perfluoro-n-octadecanoic acid (PFODA)	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000069	---	<0.000077	---	<0.000068	---	<0.000075	---
Perfluorobutanesulfonic acid (PFBS)	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000040	---	<0.000044	---	<0.000039	---	<0.000043	---
Perfluoropentanesulfonic acid (PFPeS)	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000039	---	<0.000043	---	<0.000038	---	<0.000042	---
Perfluorohexanesulfonic acid (PFHxS)	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000030	---	<0.000034	---	<0.000030	---	<0.000033	---
Perfluoroheptanesulfonic Acid (PFHpS)	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000051	---	<0.000057	---	<0.000050	---	<0.000056	---
Perfluorooctanesulfonic acid (PFOS)	ug/Kg	537	---	**1260**	**16,400**	---	---	---	---	---	---	<0.000045	---	0.00010 J	---	<0.000044	---	<0.000049	---
Perfluorononanesulfonic acid (PFNS)	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000030	---	<0.000034	---	<0.000030	---	<0.000033	---
Perfluorodecanesulfonic acid (PFDS)	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000054	---	<0.000061	---	<0.000053	---	<0.000059	---
Perfluorododecanesulfonic acid (PFDoS)	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000049	---	<0.000055	---	<0.000048	---	<0.000054	---
Perfluorooctanesulfonamide (FOSA)	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000034	---	<0.000038	---	<0.000034	---	<0.000038	---
NEtFOSA	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000049	---	<0.000055	---	<0.000048	---	<0.000054	---
NMeFOSA	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000051	---	<0.000057	---	<0.000050	---	<0.000056	---
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000050	---	<0.000056	---	<0.000049	---	<0.000055	---
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000024	---	<0.000027	---	<0.000024	---	<0.000026	---
NMeFOSE	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000029	---	<0.000033	---	<0.000029	---	<0.000032	---
NEtFOSE	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000049	---	<0.000055	---	<0.000048	---	<0.000054	---
4:2 FTS	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000053	---	<0.000059	---	<0.000052	---	<0.000058	---
6:2 FTS	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000028	---	<0.000031	---	<0.000028	---	<0.000031	---
8:2 FTS	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000036	---	<0.000041	---	<0.000036	---	<0.000040	---
10:2 FTS	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000040	---	<0.000044	---	<0.000039	---	<0.000043	---
DONA	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000041	---	<0.000045	---	<0.000040	---	<0.000045	---
HFPO-DA (GenX)	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000043	---	<0.000048	---	<0.000042	---	<0.000047	---
F-53B Major	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000036	---	<0.000041	---	<0.000036	---	<0.000040	---
F-53B Minor	ug/Kg	537	---	---	---	---	---	---	---	---	---	<0.000032	---	<0.000036	---	<0.000032	---	<0.000035	---

(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

TABLE A.1
PRE-REMEDIATION SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441

Sample						**EB-B-31**		**EB-B-32**		**EB-B-33**		**EB-B-34**		**EB-B-35**		**Trip Blank**	**Trip Blank**	**Trip Blank**	**Trip Blank**	**Trip Blank**	**Trip Blank**
Depth (feet)						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	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	GRAVEL & CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Sandy GRAVEL	SAND	Silty CLAY	Silty CLAY	---	---	---	---	---	---
Soil Conditions						Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	---	---	---	---	---	---
Sampling Date						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	2/25/2021	3/3/2021	3/9/2021	4/14/2021	6/3/2021	7/20/2021
Physical Characteristics																					
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**	**12.3**	<0.028	<0.033	<0.031	<0.029	---	---	---	---	<0.032	<0.028	<0.023	<0.028	<0.023	<0.023	<0.023	<0.023
1,1,1-Trichloroethane	mg/Kg	8260B	*0.1402*	**640**	**640**	<0.023	<0.027	<0.026	<0.024	---	---	---	---	<0.026	<0.023	<0.019	<0.023	<0.019	<0.019	<0.019	<0.019
1,1,2,2-Tetrachloroethane	mg/Kg	8260B	*0.0002*	**0.81**	**3.6**	<0.024	<0.029	<0.027	<0.025	---	---	---	---	<0.028	<0.024	<0.020	<0.024	<0.020	<0.020	<0.020	<0.020
1,1,2-Trichloroethane	mg/Kg	8260B	*0.0032*	**1.59**	**7.01**	<0.021	<0.025	<0.024	<0.022	---	---	---	---	<0.024	<0.021	<0.018	<0.021	<0.018	<0.018	<0.018	<0.018
1,1-Dichloroethane	mg/Kg	8260B	*0.4834*	**5.06**	**22.2**	<0.025	<0.030	<0.028	<0.026	---	---	---	---	<0.028	<0.025	<0.021	<0.025	<0.021	<0.021	<0.021	<0.021
1,1-Dichloroethene	mg/Kg	8260B	*0.005*	**320**	**1,190**	<0.023	<0.028	<0.026	<0.024	---	---	---	---	<0.027	<0.023	<0.020	<0.024	<0.020	<0.020	<0.020	<0.020
1,1-Dichloropropene	mg/Kg	8260B	---	---	---	<0.018	<0.021	<0.020	<0.019	---	---	---	---	<0.021	<0.018	<0.015	<0.018	<0.015	<0.015	<0.015	<0.015
1,2,3-Trichlorobenzene	mg/Kg	8260B	---	**62.6**	**934**	<0.027	<0.033	<0.031	<0.029	---	---	---	---	<0.032	<0.027	<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**	<0.025	<0.030	<0.028	<0.026	---	---	---	---	<0.029	<0.025	<0.021	<0.025	<0.021	<0.021	<0.021	<0.021
1,2,4-Trichlorobenzene	mg/Kg	8260B	*0.408*	**24**	**113**	<0.020	<0.025	<0.023	<0.021	---	---	---	---	<0.024	<0.021	<0.017	<0.021	<0.017	<0.017	<0.017	<0.017
1,2,4-Trimethylbenzene	mg/Kg	8260B	*1.3787***	**219**	**219**	<0.021	<0.026	<0.024	<0.022	---	---	---	---	<0.025	<0.021	<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**	<0.12	<0.14	<0.14	<0.12	---	---	---	---	<0.14	<0.12	<0.10	<0.12	<0.10 *+	<0.10	<0.10	<0.10
1,2-Dibromoethane	mg/Kg	8260B	*0.0000282*	**0.05**	**0.221**	<0.023	<0.028	<0.026	<0.024	---	---	---	---	<0.027	<0.023	<0.019	<0.023	<0.019	<0.019	<0.019	<0.019
1,2-Dichlorobenzene	mg/Kg	8260B	*1.168*	**376**	**376**	<0.020	<0.024	<0.023	<0.021	---	---	---	---	<0.023	<0.020	<0.017	<0.020	<0.017 *+	<0.017	<0.017	<0.017
1,2-Dichloroethane	mg/Kg	8260B	*0.0028*	**0.652**	**2.87**	<0.023	<0.028	<0.027	<0.025	---	---	---	---	<0.027	<0.024	<0.020	<0.024	<0.020	<0.020	<0.020	<0.020
1,2-Dichloropropane	mg/Kg	8260B	*0.0033*	**3.4**	**15**	<0.026	<0.031	<0.029	<0.027	---	---	---	---	<0.030	<0.026	<0.021	<0.026	<0.021	<0.021	<0.021	<0.021
1,3,5-Trimethylbenzene	mg/Kg	8260B	*1.3787***	**182**	**182**	<0.023	<0.027	<0.026	<0.024	---	---	---	---	<0.026	<0.023	<0.019	<0.023	<0.019	<0.019	<0.019	<0.019
1,3-Dichlorobenzene	mg/Kg	8260B	*1.1528*	**297**	**297**	<0.024	<0.029	<0.027	<0.025	---	---	---	---	<0.028	<0.024	<0.020	<0.024	<0.020	<0.020	<0.020	<0.020
1,3-Dichloropropane	mg/Kg	8260B	*0.0003*	**2.37**	**10.6**	<0.022	<0.026	<0.025	<0.023	---	---	---	---	<0.025	<0.022	<0.018	<0.022	<0.018	<0.018	<0.018	<0.018
1,4-Dichlorobenzene	mg/Kg	8260B	*0.144*	**3.74**	**16.4**	<0.022	<0.026	<0.025	<0.023	---	---	---	---	<0.025	<0.022	<0.018	<0.022	<0.018 *+	<0.018	<0.018	<0.018
2,2-Dichloropropane	mg/Kg	8260B	---	**191**	**191**	<0.027	<0.032	<0.030	<0.028	---	---	---	---	<0.031	<0.027	<0.022	<0.027	<0.022	<0.022	<0.022	<0.022
2-Chlorotoluene	mg/Kg	8260B	---	**907**	**907**	<0.019	<0.023	<0.021	<0.020	---	---	---	---	<0.022	<0.019	<0.016	<0.019	<0.016	<0.016	<0.016	<0.016
4-Chlorotoluene	mg/Kg	8260B	---	**253**	**253**	<0.021	<0.025	<0.024	<0.022	---	---	---	---	<0.024	<0.021	<0.018	<0.021	<0.018	<0.018	<0.018	<0.018
Benzene	mg/Kg	8260B	*0.0051*	**1.6**	**7.07**	<0.0087	<0.011	<0.0099	<0.0091	---	---	---	---	<0.010	<0.0088	<0.0073	<0.0088	<0.0073	<0.0073	<0.0073	<0.0073
Bromobenzene	mg/Kg	8260B	---	**342**	**679**	<0.021	<0.026	<0.024	<0.022	---	---	---	---	<0.025	<0.021	<0.018	<0.022	<0.018 *+	<0.018	<0.018	<0.018
Bromochloromethane	mg/Kg	8260B	---	**216**	**906**	<0.026	<0.031	<0.029	<0.027	---	---	---	---	<0.030	<0.026	<0.021	<0.026	<0.021 *+	<0.021	<0.021	<0.021
Bromodichloromethane	mg/Kg	8260B	*0.0003*	**0.418**	**1.83**	<0.022	<0.027	<0.025	<0.023	---	---	---	---	<0.026	<0.022	<0.019	<0.022	<0.019	<0.019	<0.019	<0.019
Bromoform	mg/Kg	8260B	*0.0023*	**25.4**	**113**	<0.029	<0.035	<0.033	<0.030	---	---	---	---	<0.033	<0.029	<0.024	<0.029	<0.024	<0.024	<0.024	<0.024
Bromomethane	mg/Kg	8260B	*0.0051*	**9.6**	**43**	<0.048	<0.057	<0.054	<0.050	---	---	---	---	<0.055	<0.048	<0.040	<0.048	<0.040	<0.040	<0.040	<0.040
Carbon tetrachloride	mg/Kg	8260B	*0.0039*	**0.916**	**4.03**	<0.023	<0.028	<0.026	<0.024	---	---	---	---	<0.027	<0.023	<0.019	<0.023	<0.019	<0.019	<0.019	<0.019
Chlorobenzene	mg/Kg	8260B	---	**370**	**761**	<0.023	<0.028	<0.026	<0.024	---	---	---	---	<0.027	<0.023	<0.019	<0.023	<0.019	<0.019	<0.019	<0.019
Chloroethane	mg/Kg	8260B	*0.2266*	**2,120**	**2,120**	<0.030	<0.036	<0.034	<0.032	---	---	---	---	<0.035	<0.030	<0.025	<0.030	<0.025	<0.025 *+	<0.025	<0.025
Chloroform	mg/Kg	8260B	*0.0033*	**0.454**	**1.98**	<0.022	<0.027	<0.025	<0.023	---	---	---	---	<0.026	<0.022	<0.019	<0.022	<0.019	<0.019	<0.019	<0.019
Chloromethane	mg/Kg	8260B	*0.0155*	**159**	**669**	<0.019	<0.023	<0.022	<0.020	---	---	---	---	<0.022	<0.019	<0.016	<0.019	<0.016	<0.016	<0.016	<0.016
cis-1,2-Dichloroethene	mg/Kg	8260B	*0.0412*	**156**	**2,340**	<0.024	<0.029	<0.028	<0.026	---	---	---	---	<0.028	<0.024	<0.020	<0.025	<0.020	<0.020	<0.020	<0.020
cis-1,3-Dichloropropene	mg/Kg	8260B	*0.0003*	**1,210**	**1,210**	<0.025	<0.030	<0.028	<0.026	---	---	---	---	<0.029	<0.025	<0.021	<0.025	<0.021	<0.021	<0.021	<0.021
Dibromochloromethane	mg/Kg	8260B	*0.032*	**8.28**	**38.9**	<0.029	<0.035	<0.033	<0.031	---	---	---	---	<0.034	<0.029	<0.024	<0.029	<0.024	<0.024	<0.024	<0.024
Dibromomethane	mg/Kg	8260B	---	**34**	**143**	<0.016	<0.019	<0.018	<0.017	---	---	---	---	<0.019	<0.016	<0.014	<0.016	<0.014 *+	<0.014	<0.014	<0.014
Dichlorodifluoromethane	mg/Kg	8260B	*3.0863*	**126**	**530**	<0.040	<0.049	<0.046	<0.042	---	---	---	---	<0.047	<0.040	<0.034	<0.041	<0.034	<0.034	<0.034	<0.034
Ethylbenzene	mg/Kg	8260B	*1.57*	**8.02**	**35.4**	<0.011	<0.013	<0.012	<0.011	---	---	---	---	<0.013	<0.011	<0.0092	<0.011	<0.0092	<0.0092	<0.0092	<0.0092
Hexachlorobutadiene	mg/Kg	8260B	---	**1.63**	**7.19**	<0.027	<0.032	<0.030	<0.028	---	---	---	---	<0.031 *+	<0.027 *+	<0.022	<0.027	<0.022	<0.022	<0.022 *+	<0.022
Isopropyl ether	mg/Kg	8260B	---	**2,260**	**2,260**	<0.017	<0.020	<0.019	<0.017	---	---	---	---	<0.019	<0.017	<0.014	<0.017	<0.014	<0.014	<0.014	<0.014
Isopropylbenzene	mg/Kg	8260B	---	**268**	**268**	<0.023	<0.028	<0.026	<0.024	---	---	---	---	<0.027	<0.023	<0.019	<0.023	<0.019	<0.019	<0.019	<0.019
Methyl tert-butyl ether	mg/Kg	8260B	*0.027*	**63.8**	**282**	<0.024	<0.028	<0.027	<0.025	---	---	---	---	<0.027	<0.024	<0.020	<0.024	<0.020	<0.020	<0.020	<0.020
Methylene Chloride	mg/Kg	8260B	*0.0026*	**61.8**	**1,150**	<0.098	<0.12	<0.11	<0.10	---	---	---	---	<0.11	<0.098	<0.082	<0.098	<0.082	<0.082	<0.082	<0.082
Naphthalene	mg/Kg	8260B	*0.658182*	**5.52**	**24.10**	<0.020	<0.024	<0.023	<0.021	---	---	---	---	<0.023	<0.020	<0.017	<0.020	<0.017	<0.017	<0.017	<0.017
n-Butylbenzene	mg/Kg	8260B	---	**108**	**108**	<0.023	<0.028	<0.026	<0.024	---	---	---	---	<0.027	<0.023	<0.019	<0.023	<0.019	<0.019	<0.019	<0.019
N-Propylbenzene	mg/Kg	8260B	---	**264**	**264**	<0.025	<0.030	<0.028	<0.026	---	---	---	---	<0.029	<0.025	<0.021	<0.025	<0.021	<0.021	<0.021	<0.021
p-Isopropyltoluene	mg/Kg	8260B	---	**162**	**162**	<0.022	<0.026	<0.025	<0.023	---	---	---	---	<0.025	<0.022	<0.018	<0.022	<0.018	<0.018	<0.018	<0.018
sec-Butylbenzene	mg/Kg	8260B	---	**145**	**145**	<0.024	<0.029	<0.027	<0.025	---	---	---	---	<0.028	<0.024	<0.020	<0.024	<0.020	<0.020	<0.020	<0.020
Styrene	mg/Kg	8260B	*0.22*	**867**	**867**	<0.023	<0.028	<0.026	<0.024	---	---	---	---	<0.027	<0.023	<0.019	<0.023	<0.019	<0.019	<0.019	<0.019
tert-Butylbenzene	mg/Kg	8260B	---	**183**	**183**	<0.024	<0.029	<0.027	<0.025	---	---	---	---	<0.028	<0.024	<0.020	<0.024	<0.020	<0.020	<0.020	<0.020
Tetrachloroethene	mg/Kg	8260B	*0.0045*	**33**	**145**	<0.022	<0.027	*0.055 J*	<0.023	---	---	---	---	<0.026 *+	<0.022 *+	<0.019	<0.022	<0.019	<0.019	<0.019 *+	<0.019
Toluene	mg/Kg	8260B	*1.1072*	**818**	**818**	<0.0088	<0.011	<0.010	<0.0092	---	---	---	---	<0.010	<0.0088	<0.0074	<0.0089	<0.0074	<0.0074	<0.0074	<0.0074
trans-1,2-Dichloroethene	mg/Kg	8260B	*0.0626*	**1560**	**1850**	<0.021	<0.025	<0.024	<0.022	---	---	---	---	<0.024	<0.021	<0.018	<0.021	<0.018	<0.018	<0.018	<0.018
trans-1,3-Dichloropropene	mg/Kg	8260B	---	**1,510**	**1,510**	<0.022	<0.026	<0.025	<0.023	---	---	---	---	<0.025	<0.022	<0.018	<0.022	<0.018	<0.018	<0.018	<0.018
Trichloroethene	mg/Kg	8260B	*0.0036*	**1.3**	**8.41**	<0.0098	<0.012	*0.37*	***2.4***	---	---	---	---	<0.011	<0.0098	<0.0082	0.093	<0.0082 *+	<0.0082	<0.0082	<0.0082
Trichlorofluoromethane	mg/Kg	8260B	---	**1,230**	**1,230**	<0.026	<0.031	<0.029	<0.027	---	---	---	---	<0.030	<0.026	<0.021	<0.026	<0.021 *+	<0.021	<0.021	<0.021
Vinyl chloride	mg/Kg	8260B	*0.0001*	**0.067**	**2.08**	<0.016	<0.019	<0.018	<0.016	---	---	---	---	<0.018	<0.016	<0.013	<0.016	<0.013	<0.013	<0.013	<0.013
Xylenes, Total	mg/Kg	8260B	*3.96*	**1,212**	**1212**	<0.013	<0.016	<0.015	<0.014	---	---	---	---	<0.015	<0.013	<0.011	<0.013	<0.011	<0.011	<0.011	<0.011

TABLE A.1
PRE-REMEDIATION SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	EB-B-31		EB-B-32		EB-B-33		EB-B-34		EB-B-35		Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Depth (feet)						2-4	8-10	2-4	6-8	2-4	9-10	2-4	7-7.5	2-4	8-10	---	---	---	---	---	---
Soil Type						GRAVEL & CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Sandy GRAVEL	SAND	Silty CLAY	Silty CLAY	---	---	---	---	---	---
Soil Conditions						Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	---	---	---	---	---	---
Sampling Date						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	2/25/2021	3/3/2021	3/9/2021	4/14/2021	6/3/2021	7/20/2021
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**	**2.11**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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	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**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Diethyl phthalate	mg/Kg	8270D	---	**50,600**	**100,000**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dimethyl phthalate	mg/Kg	8270D	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Di-n-butyl phthalate	mg/Kg	8270D	*5.0333*	**6320**	**82,100**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Di-n-octyl phthalate	mg/Kg	8270D	*0*	**632**	**8210**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fluoranthene	mg/Kg	8270D	*88.8778*	**2390**	**30,100**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fluorene	mg/Kg	8270D	*14.8299*	**2390**	**30,100**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Hexachlorobenzene	mg/Kg	8270D	*0.0252*	**0.252**	**1.15**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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	mg/Kg	8270D	---	**571**	**2420**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Naphthalene	mg/Kg	8270D	*0.6582*	**5.52**	**24.1**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

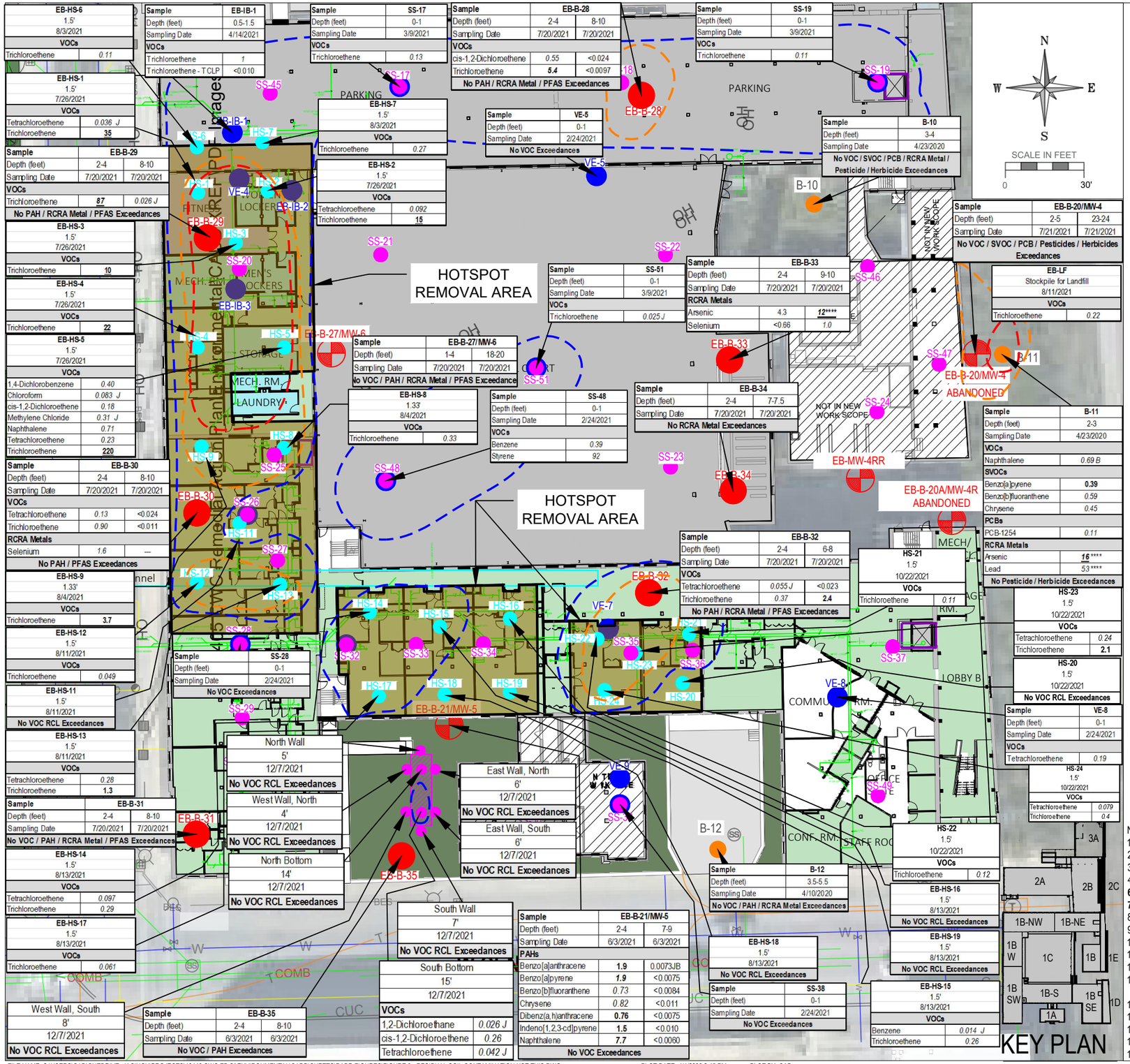
TABLE A.1
PRE-REMEDIATION SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	EB-B-31		EB-B-32		EB-B-33		EB-B-34		EB-B-35		Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Depth (feet)						2-4	8-10	2-4	6-8	2-4	9-10	2-4	7-7.5	2-4	8-10	---	---	---	---	---	---
Soil Type						GRAVEL & CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Sandy GRAVEL	SAND	Silty CLAY	Silty CLAY	---	---	---	---	---	---
Soil Conditions						Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	---	---	---	---	---	---
Sampling Date						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	2/25/2021	3/3/2021	3/9/2021	4/14/2021	6/3/2021	7/20/2021
Polycyclic Aromatic Hydrocarbons (PAHs)																					
1-Methylnaphthalene	mg/Kg	8270D	---	**17.6**	**72.7**	<0.0086	<0.0098	<0.0092	0.0095 J	---	---	---	---	<0.0096	<0.0087	---	---	---	---	---	---
2-Methylnaphthalene	mg/Kg	8270D	---	**239**	**3010**	<0.0065	<0.0074	0.010 J	0.010 J	---	---	---	---	<0.0072	<0.0066	---	---	---	---	---	---
Acenaphthene	mg/Kg	8270D	---	**3590**	**45,200**	<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**	**100,000**	<0.0059	<0.0067	<0.0063	<0.0062	---	---	---	---	<0.0066	<0.0060	---	---	---	---	---	---
Benzo[a]anthracene	mg/Kg	8270D	---	**1.14**	**21**	<0.0047	<0.0054	<0.0051	0.0071 J	---	---	---	---	<0.0053	0.0071 J	---	---	---	---	---	---
Benzo[a]pyrene	mg/Kg	8270D	*0.47*	**0.115**	**2.11**	<0.0068	<0.0078	0.0080 J	0.013 J	---	---	---	---	<0.0076	<0.0069	---	---	---	---	---	---
Benzo[b]fluoranthene	mg/Kg	8270D	*0.4781*	**1.15**	**21.1**	<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**	**211**	<0.010	<0.012	<0.011	<0.011	---	---	---	---	<0.012	<0.011	---	---	---	---	---	---
Chrysene	mg/Kg	8270D	*0.1442*	**115**	**2110**	0.023 J	<0.011	<0.010	0.021 J	---	---	---	---	<0.011	0.012 J	---	---	---	---	---	---
Dibenz(a,h)anthracene	mg/Kg	8270D	---	**0.115**	**2**	<0.0068	<0.0078	<0.0073	<0.0072	---	---	---	---	<0.0076	<0.0069	---	---	---	---	---	---
Fluoranthene	mg/Kg	8270D	*88.8778*	**2390**	**30,100**	<0.0065	<0.0075	0.0091 J	0.015 J	---	---	---	---	<0.0073	<0.0066	---	---	---	---	---	---
Fluorene	mg/Kg	8270D	*14.8299*	**2390**	**30,100**	<0.0050	<0.0057	<0.0053	<0.0052	---	---	---	---	<0.0055	<0.0050	---	---	---	---	---	---
Indeno[1,2,3-cd]pyrene	mg/Kg	8270D	---	**1.15**	**21.1**	<0.0091	<0.010	<0.0098	<0.0097	---	---	---	---	<0.010	<0.0093	---	---	---	---	---	---
Naphthalene	mg/Kg	8270D	*0.6582*	**5.52**	**24.1**	<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**	**22,600**	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**	**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**	**0.975**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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**	**3**	3.3	---	3.2	---	4.3	***12***	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	---	---	---	---	---	---	---	---	---	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	7471A	*0.208*	**3.13**	**3.13**	0.0092 J	---	0.018	---	0.031	0.011 J	<0.0057	0.14	---	---	---	---	---	---	---	---
Nickel	---	---	---	---	---	---	---	---	---	24	23	7.3	9.9	---	---	---	---	---	---	---	---
Selenium	mg/Kg	6010B	*0.52*	**391**	**5840**	<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	---	---	---	---	---	---	---	---	---	91	57	22	26	---	---	---	---	---	---	---	---
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**	**7010**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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**	**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*	**0.14**	**0.654**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Heptachlor epoxide	mg/Kg	8081A	*0.082*	**0.072**	**0.338**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Methoxychlor	mg/Kg	8081A	*4.32*	**316**	**4100**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Toxaphene	mg/Kg	8081A	*0.928*	**0.493**	**2.09**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Herbicides																					
2,4,5-T	mg/Kg	8151A	---	**632**	**8210**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2,4-D	mg/Kg	8151A	*0.0362*	**699**	**9640**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2,4-DB	mg/Kg	8151A	---	**1900**	**24,600**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

TABLE A.1
PRE-REMEDIATION SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	EB-B-31		EB-B-32		EB-B-33		EB-B-34		EB-B-35		Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Depth (feet)						2-4	8-10	2-4	6-8	2-4	9-10	2-4	7-7.5	2-4	8-10	---	---	---	---	---	---
Soil Type						GRAVEL & CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Sandy GRAVEL	SAND	Silty CLAY	Silty CLAY	---	---	---	---	---	---
Soil Conditions						Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	---	---	---	---	---	---
Sampling Date						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	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	---	---	---	<0.000047	---	<0.000053	---	---	---	---	---	---	---	---	---	---	---	---	---
Perfluoropentanoic acid (PFPeA)	ug/Kg	537	---	---	---	<0.000042	---	<0.000048	---	---	---	---	---	---	---	---	---	---	---	---	---
Perfluorohexanoic acid (PFHxA)	ug/Kg	537	---	---	---	<0.000032	---	<0.000036	---	---	---	---	---	---	---	---	---	---	---	---	---
Perfluoroheptanoic acid (PFHpA)	ug/Kg	537	---	---	---	<0.000039	---	<0.000044	---	---	---	---	---	---	---	---	---	---	---	---	---
Perfluorooctanoic acid (PFOA)	ug/Kg	537	---	**1260**	**16,400**	<0.000054	---	<0.000062	---	---	---	---	---	---	---	---	---	---	---	---	---
Perfluorononanoic acid (PFNA)	ug/Kg	537	---	---	---	<0.000023	---	<0.000026	---	---	---	---	---	---	---	---	---	---	---	---	---
Perfluorodecanoic acid (PFDA)	ug/Kg	537	---	---	---	<0.000049	---	<0.000056	---	---	---	---	---	---	---	---	---	---	---	---	---
Perfluoroundecanoic acid (PFUnA)	ug/Kg	537	---	---	---	<0.000043	---	<0.000049	---	---	---	---	---	---	---	---	---	---	---	---	---
Perfluorododecanoic acid (PFDoA)	ug/Kg	537	---	---	---	<0.000031	---	<0.000035	---	---	---	---	---	---	---	---	---	---	---	---	---
Perfluorotridecanoic acid (PFTriA)	ug/Kg	537	---	---	---	<0.000022	---	<0.000024	---	---	---	---	---	---	---	---	---	---	---	---	---
Perfluorotetradecanoic acid (PFTeA)	ug/Kg	537	---	---	---	<0.000038	---	<0.000043	---	---	---	---	---	---	---	---	---	---	---	---	---
Perfluoro-n-hexadecanoic acid (PFHxDA)	ug/Kg	537	---	---	---	<0.000039	---	<0.000044	---	---	---	---	---	---	---	---	---	---	---	---	---
Perfluoro-n-octadecanoic acid (PFODA)	ug/Kg	537	---	---	---	<0.000068	---	<0.000077	---	---	---	---	---	---	---	---	---	---	---	---	---
Perfluorobutanesulfonic acid (PFBS)	ug/Kg	537	---	---	---	<0.000039	---	<0.000044	---	---	---	---	---	---	---	---	---	---	---	---	---
Perfluoropentanesulfonic acid (PFPeS)	ug/Kg	537	---	---	---	<0.000038	---	<0.000043	---	---	---	---	---	---	---	---	---	---	---	---	---
Perfluorohexanesulfonic acid (PFHxS)	ug/Kg	537	---	---	---	<0.000030	---	<0.000034	---	---	---	---	---	---	---	---	---	---	---	---	---
Perfluoroheptanesulfonic Acid (PFHpS)	ug/Kg	537	---	---	---	<0.000050	---	<0.000057	---	---	---	---	---	---	---	---	---	---	---	---	---
Perfluorooctanesulfonic acid (PFOS)	ug/Kg	537	---	**1260**	**16,400**	<0.000044	---	<0.000050	---	---	---	---	---	---	---	---	---	---	---	---	---
Perfluorononanesulfonic acid (PFNS)	ug/Kg	537	---	---	---	<0.000030	---	<0.000034	---	---	---	---	---	---	---	---	---	---	---	---	---
Perfluorodecanesulfonic acid (PFDS)	ug/Kg	537	---	---	---	<0.000053	---	<0.000060	---	---	---	---	---	---	---	---	---	---	---	---	---
Perfluorododecanesulfonic acid (PFDoS)	ug/Kg	537	---	---	---	<0.000048	---	<0.000055	---	---	---	---	---	---	---	---	---	---	---	---	---
Perfluorooctanesulfonamide (FOSA)	ug/Kg	537	---	---	---	<0.000034	---	<0.000038	---	---	---	---	---	---	---	---	---	---	---	---	---
NEtFOSA	ug/Kg	537	---	---	---	<0.000048	---	<0.000055	---	---	---	---	---	---	---	---	---	---	---	---	---
NMeFOSA	ug/Kg	537	---	---	---	<0.000050	---	<0.000057	---	---	---	---	---	---	---	---	---	---	---	---	---
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ug/Kg	537	---	---	---	<0.000049	---	<0.000056	---	---	---	---	---	---	---	---	---	---	---	---	---
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ug/Kg	537	---	---	---	<0.000024	---	<0.000027	---	---	---	---	---	---	---	---	---	---	---	---	---
NMeFOSE	ug/Kg	537	---	---	---	<0.000029	---	<0.000033	---	---	---	---	---	---	---	---	---	---	---	---	---
NEtFOSE	ug/Kg	537	---	---	---	<0.000048	---	<0.000055	---	---	---	---	---	---	---	---	---	---	---	---	---
4:2 FTS	ug/Kg	537	---	---	---	<0.000052	---	<0.000059	---	---	---	---	---	---	---	---	---	---	---	---	---
6:2 FTS	ug/Kg	537	---	---	---	<0.000028	---	<0.000031	---	---	---	---	---	---	---	---	---	---	---	---	---
8:2 FTS	ug/Kg	537	---	---	---	<0.000036	---	<0.000041	---	---	---	---	---	---	---	---	---	---	---	---	---
10:2 FTS	ug/Kg	537	---	---	---	<0.000039	---	<0.000044	---	---	---	---	---	---	---	---	---	---	---	---	---
DONA	ug/Kg	537	---	---	---	<0.000040	---	<0.000045	---	---	---	---	---	---	---	---	---	---	---	---	---
HFPO-DA (GenX)	ug/Kg	537	---	---	---	<0.000042	---	<0.000048	---	---	---	---	---	---	---	---	---	---	---	---	---
F-53B Major	ug/Kg	537	---	---	---	<0.000036	---	<0.000041	---	---	---	---	---	---	---	---	---	---	---	---	---
F-53B Minor	ug/Kg	537	---	---	---	<0.000032	---	<0.000036	---	---	---	---	---	---	---	---	---	---	---	---	---

(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



EB-HS-6	
1.5'	
8/3/2021	
VOCs	
Trichloroethene	0.11

EB-HS-1	
1.5'	
7/26/2021	
VOCs	
Tetrachloroethene	0.036 J
Trichloroethene	35

Sample	EB-B-29	
Depth (feet)	2-4	8-10
Sampling Date	7/20/2021	7/20/2021
VOCs		
Trichloroethene	87	0.026 J
No PAH / RCRA Metal / PFAS Exceedances		

EB-HS-3	
1.5'	
7/26/2021	
VOCs	
Trichloroethene	10

EB-HS-4	
1.5'	
7/26/2021	
VOCs	
Trichloroethene	22

EB-HS-5	
1.5'	
7/26/2021	
VOCs	
1,4-Dichlorobenzene	0.40
Chloroform	0.083 J
cis-1,2-Dichloroethene	0.18
Methylene Chloride	0.31 J
Naphthalene	0.71
Tetrachloroethene	0.23
Trichloroethene	220

Sample	EB-B-30	
Depth (feet)	2-4	8-10
Sampling Date	7/20/2021	7/20/2021
VOCs		
Tetrachloroethene	0.13	<0.024
Trichloroethene	0.90	<0.011
RCRA Metals		
Selenium	1.6	---
No PAH / PFAS Exceedances		

EB-HS-9	
1.33'	
8/4/2021	
VOCs	
Trichloroethene	3.7

EB-HS-12	
1.5'	
8/11/2021	
VOCs	
Trichloroethene	0.049

EB-HS-11
1.5'
8/11/2021
No VOC RCL Exceedances

EB-HS-13	
1.5'	
8/11/2021	
VOCs	
Tetrachloroethene	0.28
Trichloroethene	1.3

Sample	EB-B-31	
Depth (feet)	2-4	8-10
Sampling Date	7/20/2021	7/20/2021
No VOC / PAH / RCRA Metal / PFAS Exceedances		

EB-HS-14	
1.5'	
8/13/2021	
VOCs	
Tetrachloroethene	0.097
Trichloroethene	0.29

EB-HS-17	
1.5'	
8/13/2021	
VOCs	
Trichloroethene	0.061

Sample	EB-B-35	
Depth (feet)	2-4	8-10
Sampling Date	6/3/2021	6/3/2021
No VOC / PAH Exceedances		

Sample	EB-IB-1
Depth (feet)	0.5-1.5
Sampling Date	4/14/2021
VOCs	
Trichloroethene	1
Trichloroethene - TCLP	<0.010

Sample	SS-17
Depth (feet)	0-1
Sampling Date	3/9/2021
VOCs	
Trichloroethene	0.13

EB-HS-7	
1.5'	
8/3/2021	
VOCs	
Trichloroethene	0.27

EB-HS-2	
1.5'	
7/26/2021	
VOCs	
Tetrachloroethene	0.092
Trichloroethene	15

Sample	EB-B-28	
Depth (feet)	2-4	8-10
Sampling Date	7/20/2021	7/20/2021
VOCs		
cis-1,2-Dichloroethene	0.55	<0.024
Trichloroethene	5.4	<0.0097
No PAH / RCRA Metal / PFAS Exceedances		

Sample	VE-5
Depth (feet)	0-1
Sampling Date	2/24/2021
No VOC Exceedances	

Sample	SS-19
Depth (feet)	0-1
Sampling Date	3/9/2021
VOCs	
Trichloroethene	0.11

Sample	B-10
Depth (feet)	3-4
Sampling Date	4/23/2020
No VOC / SVOC / PCB / RCRA Metal / Pesticide / Herbicide Exceedances	

Sample	EB-B-20/MW-4	
Depth (feet)	2-5	23-24
Sampling Date	7/21/2021	7/21/2021
No VOC / SVOC / PCB / Pesticides / Herbicides Exceedances		

EB-LF
Stockpile for Landfill
8/11/2021
VOCs
Trichloroethene 0.22

Sample	SS-51
Depth (feet)	0-1
Sampling Date	3/9/2021
VOCs	
Trichloroethene	0.025 J

Sample	EB-B-33	
Depth (feet)	2-4	9-10
Sampling Date	7/20/2021	7/20/2021
RCRA Metals		
Arsenic	4.3	12****
Selenium	<0.66	1.0

Sample	EB-B-27/MW-6	
Depth (feet)	1-4	18-20
Sampling Date	7/20/2021	7/20/2021
No VOC / PAH / RCRA Metal / PFAS Exceedances		

EB-HS-8	
1.33'	
8/4/2021	
VOCs	
Trichloroethene	0.33

Sample	SS-48
Depth (feet)	0-1
Sampling Date	2/24/2021
VOCs	
Benzene	0.39
Styrene	92

Sample	EB-B-34	
Depth (feet)	2-4	7-7.5
Sampling Date	7/20/2021	7/20/2021
No RCRA Metal Exceedances		

Sample	B-11
Depth (feet)	2-3
Sampling Date	4/23/2020
VOCs	
Naphthalene	0.69 B
SVOCs	
Benzo[a]pyrene	0.39
Benzo[b]fluoranthene	0.59
Chrysene	0.45
PCBs	
PCB-1254	0.11
RCRA Metals	
Arsenic	16****
Lead	53****
No Pesticide / Herbicide Exceedances	

Sample	EB-B-32	
Depth (feet)	2-4	6-8
Sampling Date	7/20/2021	7/20/2021
VOCs		
Tetrachloroethene	0.055 J	<0.023
Trichloroethene	0.37	2.4
No PAH / RCRA Metal / PFAS Exceedances		

HS-21
1.5'
10/22/2021
VOCs
Trichloroethene 0.11

HS-23
1.5'
10/22/2021
VOCs
Tetrachloroethene 0.24
Trichloroethene 2.1

HS-20
1.5'
10/22/2021
No VOC RCL Exceedances

Sample	VE-8
Depth (feet)	0-1
Sampling Date	2/24/2021
VOCs	
Tetrachloroethene	0.19

HS-24
1.5'
10/22/2021
VOCs
Tetrachloroethene 0.079
Trichloroethene 0.4

Sample	SS-28
Depth (feet)	0-1
Sampling Date	2/24/2021
No VOC Exceedances	

Sample	B-12
Depth (feet)	3.5-5.5
Sampling Date	4/10/2020
No VOC / PAH / RCRA Metal Exceedances	

HS-22
1.5'
10/22/2021
VOCs
Trichloroethene 0.12

EB-HS-16
1.5'
8/13/2021
No VOC RCL Exceedances

EB-HS-19
1.5'
8/13/2021
No VOC RCL Exceedances

EB-HS-18
1.5'
8/13/2021
No VOC RCL Exceedances

Sample	SS-38
Depth (feet)	0-1
Sampling Date	2/24/2021
No VOC Exceedances	

EB-HS-15
1.5'
8/13/2021
VOCs
Benzene 0.014 J
Trichloroethene 0.26

Sample	EB-B-21/MW-5	
Depth (feet)	2-4	7-9
Sampling Date	6/3/2021	6/3/2021
PAHs		
Benzo[a]anthracene	1.9	0.0073JB
Benzo[a]pyrene	1.9	<0.0075
Benzo[b]fluoranthene	0.73	<0.0084
Chrysene	0.82	<0.011
Dibenz(a,h)anthracene	0.76	<0.0075
Indeno[1,2,3-cd]pyrene	1.5	<0.010
Naphthalene	7.7	<0.0060
No VOC Exceedances		

VOCs	
1,2-Dichloroethane	0.026 J
cis-1,2-Dichloroethene	0.26
Tetrachloroethene	0.042 J

FLOOR FINISH LEGEND

	ATH-1	ATHLETIC FLOORING - FLEXIBLE / NON-ADHERED
	CPT-1	BROADLOOM CARPET (UNIT BEDROOMS)
	CT-1	CERAMIC TILE (UNIT BATHROOMS W/ ROLL-IN SHOWERS ONLY)
	ERF-1	EPOXY RESINOUS FLOORING
	EXTG-WD	EXISTING WOOD FLOORING TO REMAIN IN PLACE & BE REFINISHED
	EXTG-WS	EXISTING CONCRETE SLAB WITH WEATHER SEAL
	LVT-1	LUXURY VINYL TILE (UNIT BATHROOMS)
	PC-1	POLISHED CONCRETE
	RF-1	RUBBER FLOORING
	SC-1	SEALED CONCRETE
	WD-SV	SALVAGED WOOD - REMOVED, REINSTALLED AND REFINISHED (SALVAGED WOOD WILL BE REINSTALLED IN CORRIDORS FIRST THEN CONTINUE INTO UNITS - IF THERE IS NOT ENOUGH QUANTITY - INSTALL NEW WOOD FLOORING TO MATCH HISTORIC SIZE)

LEGEND
- GROUNDWATER PROTECTION RCL EXCEEDANCE EXTENTS
- NON-INDUSTRIAL DIRECT CONTACT RCL EXCEEDANCE EXTENTS
- INDUSTRIAL DIRECT CONTACT RCL EXCEEDENCE EXTENTS

LEGEND
- Planned Underground Plumbing
- Underground Tunnel
- Previous Soil Probe, Hand Auger, and Temp. Well Locations (9)
- Monitoring Well Locations (6)
- Soil Probe Locations (13)
- Sub-Slab Soil Sampling Locations (28)
- Approximate Underground Storage Tank Location

Analyte	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	Background Threshold Value
Volatile Organic Compounds (VOCs)				
1,1,1-Trichloroethane	0.1402	640	640	---
1,1-Dichloroethane	0.4834	5.06	22.2	---
1,2-Dichloroethane	0.0028	0.652	2.87	---
1,4-Dichlorobenzene	0.144	3.74	16.4	---
1,2,4-Trimethylbenzene	1.3787**	219	219	---
1,3,5-Trimethylbenzene	1.3787**	182	182	---
Benzene	0.0051	1.6	7.07	---
Chloroform	0.0033	0.454	1.98	---
cis-1,2-Dichloroethene	0.0412	156	2,340	---
Ethylbenzene	1.57	8.02	35.4	---
Methylene Chloride	0.0026	61.80	1150	---
Naphthalene	0.658182	5.52	24.10	---
Styrene	0.22	867	867	---
trans-1,2-Dichloroethene	0.0626	1560	1850	---
Tetrachloroethene	0.0045	33	145	---
Trichloroethene	0.0036	1.3	8.41	---
Vinyl chloride	0.0001	0.067	2.08	---
Xylenes, Total	3.96	1,212	1212	---
Semivolatile Organic Compounds (SVOCs) / Polycyclic Aromatic Hydrocarbons (PAHs)				
Benzo[a]anthracene	---	1.14	21	---
Benzo[a]pyrene	0.47	0.115	2.11	---
Benzo[b]fluoranthene	0.4781	1.15	21.1	---
Benzo[k]fluoranthene	---	11.5	211	---
Chrysene	0.1442	115	2110	---
Dibenz(a,h)anthracene	---	0.115	2	---
Indeno[1,2,3-cd]pyrene	---	1.15	21.1	---
Naphthalene	0.6582	5.52	24.1	---
Polychlorinated Biphenyls (PCBs)				
PCB-1254	0.0094***	0.239	1	---
RCRA Metals				
Arsenic	0.584	0.677	3	8.3
Selenium	0.52	391	5840	---
Lead	27	400	800	51.6

NOTES:
1. (1) FROM WDNR RCLS WORKSHEET DATED DECEMBER 2018
2. REPORTED UNITS IN MG/KG
3. ONLY RCL EXCEEDANCES SHOWN
4. *Italics* = DETECTION IS ABOVE GROUNDWATER PROTECTION RCLS
6. **BOLD** = DETECTION IS ABOVE NON-INDUSTRIAL DIRECT CONTACT RCLS
7. **BOLD Underlined** = DETECTION IS ABOVE INDUSTRIAL DIRECT CONTACT RCLS
8. ** = COMBINED ESTABLISHED STANDARD OF 1,2,4- & 1,3,5-TRIMETHYLBENZENE
9. *** = COMBINED ESTABLISHED STANDARD OF PCBS
10. **** = EXCEEDS BACKGROUND THRESHOLDS
11. --- = NO ESTABLISHED STANDARD
12. * = LABORATORY CONTROL SAMPLE AND/OR DUPLICATE IS OUTSIDE ACCEPTANCE LIMITS
13. *+ = LABORATORY CONTROL SAMPLE AND/OR DUPLICATE IS OUTSIDE ACCEPTANCE LIMITS, HIGH BIASED
14. "B" = COMPOUND WAS FOUND IN THE BLANK AND SAMPLE
15. "F1" = MATRIX SPIKE AND/OR MATRIX SPIKE DUP RECOVERY EXCEEDS CONTROL LIMITS
16. "J" = ANALYTE DETECTED BETWEEN 'LIMIT OF DETECTION' AND 'LIMIT OF QUANTITATION'
17. METHYLENE CHLORIDE OMITTED - COMMON LABORATORY ARTIFACT
18. SAMPLING LOCATIONS ARE APPROXIMATE

KSingh | Engineers Scientists Consultants
3636 North 124th Street
Wauwatosa, WI 53222
262-821-1171

CONSULTANT

CONSULTANT

CONSULTANT

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

CLIENT: COMMUNITY WITHIN THE CORRIDOR LIMITED PARTNERSHIP

REVISIONS	DATE	DESCRIPTION

DRAWN BY	DATE
JDS	04/02/2023
CHECKED BY	DATE
RTR	04/02/2023

SHEET TITLE
POST-REMEDIAL ACTION SOIL CONTAMINATION
ISO-CONCENTRATION MAP (SOUTH)

FIGURE 7

FILE NAME :C:\USERS\CAD\ONEDRIVE - K SINGH\PROJECTS\40449 CWC EB SI\ENVIRONMENTAL\CADD\SHEETS\RADR FIGURES\FIGURE 9 - RESIDUAL SOIL CONTAMINATION USE THIS.DWG PLOT DATE :4/4/2023 2:45 PM PLOT BY :CAD

TABLE A.2
CONFIRMATION SOIL SAMPLE TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	**EB-HS-1**	**EB-HS-2**	**EB-HS-3**	**EB-HS-4**	**EB-HS-5**	**EB-HS-6**	**EB-HS-7**	**EB-HS-8**	**EB-HS-9**
Depth (feet)						1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.33'	1.33'
Soil Type						ML-CL	ML-CL	ML-CL	ML-CL	ML-CL	ML-CL	ML-CL	ML-CL	ML-CL
Soil Conditions						Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Location						Interior	Interior	Interior	Interior	Interior	Interior	Interior	Interior	Interior
Sampling Date						7/26/2021	7/26/2021	7/26/2021	7/26/2021	7/26/2021	8/3/2021	8/3/2021	8/4/2021	8/4/2021
Physical Characteristics														
Percent Moisture						**8.6**	**9.8**	**9.9**	**10.7**	**13.1**	**0.0**	**11.1**	**6.6**	**20.1**
Percent Solids						**91.4**	**90.2**	**90.1**	**89.3**	**86.9**	**100.0**	**88.9**	**93.4**	**79.9**
Volatile Organic Compounds (VOCs)														
1,1,1,2-Tetrachloroethane	mg/Kg	8260B	0.0534	2.78	12.3	<0.027	<0.028	<0.028	<0.032	<0.070	<0.023	<0.031	<0.028	<0.033
1,1,1-Trichloroethane	mg/Kg	8260B	0.1402	640	640	<0.022	<0.023	<0.023	<0.026	0.12 J	<0.019	<0.026	<0.023	<0.027
1,1,2,2-Tetrachloroethane	mg/Kg	8260B	0.0002	0.81	3.6	<0.023	<0.024	<0.024	<0.027	<0.060	<0.020	<0.027	<0.024	<0.029
1,1,2-Trichloroethane	mg/Kg	8260B	0.0032	1.59	7.01	<0.021	<0.021	<0.021	<0.024	<0.053	<0.018	<0.024	<0.021	<0.025
1,1-Dichloroethane	mg/Kg	8260B	0.4834	5.06	22.2	<0.024	<0.025	<0.025	<0.028	<0.062	<0.020	<0.028	<0.025	<0.029
1,1-Dichloroethene	mg/Kg	8260B	0.005	320	1,190	<0.023	<0.024	<0.024	<0.027	<0.059	<0.019	<0.026	<0.024	<0.028
1,1-Dichloropropene	mg/Kg	8260B	---	---	---	<0.018	<0.018	<0.018	<0.021	<0.045	<0.015	<0.020	<0.018	<0.021
1,2,3-Trichlorobenzene	mg/Kg	8260B	---	62.6	934	<0.027	<0.028	<0.028	<0.032	<0.069	<0.023	<0.031	<0.028	<0.033
1,2,3-Trichloropropane	mg/Kg	8260B	0.0519	0.005	0.109	<0.024	<0.025	<0.025	<0.029	<0.062	<0.021	<0.028	<0.025	<0.030
1,2,4-Trichlorobenzene	mg/Kg	8260B	0.408	24	113	<0.020	<0.021	<0.021	<0.024	<0.051	<0.017	<0.023	<0.021	<0.025
1,2,4-Trimethylbenzene	mg/Kg	8260B	1.3787**	219	219	<0.021	<0.022	<0.022	<0.025	0.94	<0.018	<0.024	<0.022	<0.026
1,2-Dibromo-3-Chloropropane	mg/Kg	8260B	0.0002	0.008	0.092	<0.12	<0.12	<0.12	<0.14	<0.30	<0.099	<0.13	<0.12	<0.14
1,2-Dibromoethane	mg/Kg	8260B	0.0000282	0.05	0.221	<0.023	<0.023	<0.023	<0.027	<0.058	<0.019	<0.026	<0.023	<0.028
1,2-Dichlorobenzene	mg/Kg	8260B	1.168	376	376	<0.020	<0.020	<0.020	<0.023	0.60	<0.017	<0.023	<0.020	<0.024
1,2-Dichloroethane	mg/Kg	8260B	0.0028	0.652	2.87	<0.023	<0.024	<0.024	<0.027	<0.059	<0.020	<0.026	<0.024	<0.028
1,2-Dichloropropane	mg/Kg	8260B	0.0033	3.4	15	<0.025	<0.026	<0.026	<0.030	<0.064	<0.021	<0.029	<0.026	<0.031
1,3,5-Trimethylbenzene	mg/Kg	8260B	1.3787**	182	182	<0.022	<0.023	<0.023	<0.026	0.50	<0.019	<0.026	<0.023	<0.027
1,3-Dichlorobenzene	mg/Kg	8260B	1.1528	297	297	<0.024	<0.024	<0.024	<0.028	0.10 J	<0.020	<0.027	<0.024	<0.029
1,3-Dichloropropane	mg/Kg	8260B	0.0003	2.37	10.6	<0.021	<0.022	<0.022	<0.025	<0.054	<0.018	<0.024	<0.022	<0.026
1,4-Dichlorobenzene	mg/Kg	8260B	0.144	3.74	16.4	<0.021	<0.022	<0.022	<0.025	***0.40***	<0.018	<0.025	<0.022	<0.026
2,2-Dichloropropane	mg/Kg	8260B	---	191	191	<0.026	<0.027	<0.027	<0.031	<0.067	<0.022	<0.030	<0.027	<0.032
2-Chlorotoluene	mg/Kg	8260B	---	907	907	<0.019	<0.019	<0.019	<0.022	<0.047	<0.016	<0.021	<0.019	<0.023
4-Chlorotoluene	mg/Kg	8260B	---	253	253	<0.021	<0.021	<0.021	<0.024	<0.053	<0.017	<0.024	<0.021	<0.025
Benzene	mg/Kg	8260B	0.0051	1.6	7.07	<0.0086	<0.0088	<0.0089	<0.010	<0.022	<0.0073	<0.0098	<0.0089	<0.011
Bromobenzene	mg/Kg	8260B	---	342	679	<0.021	<0.022	<0.022	<0.025	<0.054	<0.018	<0.024	<0.022	<0.026
Bromochloromethane	mg/Kg	8260B	---	216	906	<0.025	<0.026	<0.026	<0.030	<0.064	<0.021	<0.029	<0.026	<0.031
Bromodichloromethane	mg/Kg	8260B	0.0003	0.418	1.83	<0.022	<0.023	<0.023	<0.026	<0.056	<0.019	<0.025	<0.023	<0.027
Bromoform	mg/Kg	8260B	0.0023	25.4	113	<0.029	<0.029	<0.029	<0.033	<0.073	<0.024	<0.033	<0.029	<0.035
Bromomethane	mg/Kg	8260B	0.0051	9.6	43	<0.047	<0.048	<0.048	<0.055	<0.12	<0.040	<0.054	<0.048	<0.057
Carbon tetrachloride	mg/Kg	8260B	0.0039	0.916	4.03	<0.023	<0.023	<0.023	<0.027	<0.058	<0.019	<0.026	<0.023	<0.028
Chlorobenzene	mg/Kg	8260B	---	370	761	<0.023	<0.023	<0.023	<0.027	<0.058	<0.019	<0.026	<0.023	<0.028
Chloroethane	mg/Kg	8260B	0.2266	2,120	2,120	<0.030	<0.030	<0.031	<0.035	<0.076	<0.025	<0.034	<0.031	<0.036
Chloroform	mg/Kg	8260B	0.0033	0.454	1.98	<0.022	<0.022	<0.023	<0.026	***0.083 J***	<0.018	<0.025	<0.022	<0.027
Chloromethane	mg/Kg	8260B	0.0155	159	669	<0.019	<0.019	<0.019	<0.022	<0.048	<0.016	<0.022	<0.019	<0.023
cis-1,2-Dichloroethene	mg/Kg	8260B	0.0412	156	2,340	<0.024	<0.025	0.032 J	<0.028	***0.18***	<0.020	<0.028	<0.025	<0.029
cis-1,3-Dichloropropene	mg/Kg	8260B	0.0003	1,210	1,210	<0.025	<0.025	<0.025	<0.029	<0.063	<0.021	<0.028	<0.025	<0.030
Dibromochloromethane	mg/Kg	8260B	0.032	8.28	38.9	<0.029	<0.030	<0.030	<0.034	<0.073	<0.024	<0.033	<0.030	<0.035
Dibromomethane	mg/Kg	8260B	---	34	143	<0.016	<0.016	<0.016	<0.019	<0.041	<0.013	<0.018	<0.016	<0.019
Dichlorodifluoromethane	mg/Kg	8260B	3.0863	126	530	<0.040	<0.041	<0.041	<0.047	<0.10	<0.034	<0.045	<0.041	<0.048
Ethylbenzene	mg/Kg	8260B	1.57	8.02	35.4	<0.011	<0.011	<0.011	<0.013	0.038	<0.0091	<0.012	<0.011	<0.013
Hexachlorobutadiene	mg/Kg	8260B	---	1.63	7.19	<0.026	<0.027	<0.027	<0.031	<0.067	<0.022	<0.030	<0.027	<0.032
Isopropyl ether	mg/Kg	8260B	---	2,260	2,260	<0.016	<0.017	<0.017	<0.019	<0.042	<0.014	<0.019	<0.017	<0.020
Isopropylbenzene	mg/Kg	8260B	---	268	268	<0.023	<0.023	<0.023	<0.027	0.063 J	<0.019	<0.026	<0.023	<0.028
Methyl tert-butyl ether	mg/Kg	8260B	0.027	63.8	282	<0.023	<0.024	<0.024	<0.027	<0.059	<0.020	<0.027	<0.024	<0.028
Methylene Chloride	mg/Kg	8260B	0.0026	61.8	1,150	<0.096	<0.099	<0.099	<0.11	***0.31 J***	<0.081	<0.11	<0.099	<0.12
Naphthalene	mg/Kg	8260B	0.658182	5.52	24.10	<0.020	0.023 J B	0.041 J B	<0.023	***0.71***	<0.017	<0.023	0.38	0.046 J
n-Butylbenzene	mg/Kg	8260B	---	108	108	<0.023	<0.023	<0.024	<0.027	<0.058	<0.019	<0.026	<0.024	<0.028
N-Propylbenzene	mg/Kg	8260B	---	264	264	<0.024	<0.025	<0.025	<0.029	0.22	<0.021	<0.028	<0.025	<0.030
p-Isopropyltoluene	mg/Kg	8260B	---	162	162	<0.021	<0.022	<0.022	<0.025	0.13 J	<0.018	<0.024	<0.022	<0.026
sec-Butylbenzene	mg/Kg	8260B	---	145	145	<0.023	<0.024	<0.024	<0.027	0.17	<0.020	<0.027	<0.024	<0.029
Styrene	mg/Kg	8260B	0.22	867	867	<0.023	<0.023	<0.023	<0.027	<0.058	<0.019	<0.026	<0.023	<0.028
tert-Butylbenzene	mg/Kg	8260B	---	183	183	<0.023	<0.024	<0.024	<0.027	<0.060	<0.020	<0.027	<0.024	<0.029
Tetrachloroethene	mg/Kg	8260B	0.0045	33	145	***0.036 J***	***0.092***	<0.023	<0.026	***0.23***	<0.018	<0.025	<0.022	<0.027
Toluene	mg/Kg	8260B	1.1072	818	818	<0.0087	<0.0089	<0.0089	<0.010	0.035 J	<0.0073	<0.0099	<0.0089	<0.011
trans-1,2-Dichloroethene	mg/Kg	8260B	0.0626	1560	1850	<0.021	<0.021	<0.021	<0.024	<0.053	<0.017	<0.024	<0.021	<0.025
trans-1,3-Dichloropropene	mg/Kg	8260B	---	1,510	1,510	<0.021	<0.022	<0.022	<0.025	<0.054	<0.018	<0.024	<0.022	<0.026 *-
Trichloroethene	mg/Kg	8260B	0.0036	1.3	8.41	**35**	**15**	**10**	**22**	**220**	***0.11***	***0.27***	***0.33***	***3.7***
Trichlorofluoromethane	mg/Kg	8260B	---	1,230	1,230	<0.025	<0.026	<0.026	<0.030	<0.064	<0.021	<0.029	<0.026	<0.031
Vinyl chloride	mg/Kg	8260B	0.0001	0.067	2.08	<0.015	<0.016	<0.016	<0.018	<0.039	<0.013	<0.018	<0.016	<0.019
Xylenes, Total	mg/Kg	8260B	3.96	1,212	1212	<0.013	<0.013	<0.013	<0.015	0.36	<0.011	<0.015	<0.013	<0.016

Notes:
(1) From WDNR RCLs Worksheet dated December 2018
BOLD Italicized values exceed Groundwater Protection
BOLD values exceed Non-Industrial Direct Contact
BOLD Underlined values exceed 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
B = Compund was found in blank and sample

TABLE A.2
CONFIRMATION SOIL SAMPLE TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	EB-HS-11	EB-HS-12	EB-HS-13	EB-LF	EB-HS-14	EB-HS-15	EB-HS-16	EB-HS-17	EB-HS-18	EB-HS-19
Depth (feet)						1.5'	1.5'	1.5'	NA	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'
Soil Type						ML-CL	ML-CL	ML-CL	ML-CL	ML-CL	ML-CL	ML-CL	ML-CL	ML-CL	ML-CL
Soil Conditions						Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Sampling Location						Interior	Interior	Interior	Exterior	Interior	Interior	Interior	Interior	Interior	Interior
Sampling Date						8/11/2021	8/11/2021	8/11/2021	8/11/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021
Physical Characteristics															
Percent Moisture						**14.5**	**9.9**	**7.4**	**11.5**	**10.3**	**10.2**	**22.1**	**12.9**	**17.8**	**12.0**
Percent Solids						**85.5**	**90.1**	**92.6**	**88.5**	**89.7**	**89.8**	**77.9**	**87.1**	**82.2**	**88.0**
Volatile Organic Compounds (VOCs)															
1,1,1,2-Tetrachloroethane	mg/Kg	8260B	0.0534	2.78	12.3	<0.031	<0.028	<0.027	<0.029	<0.029	<0.028	<0.036	<0.030	<0.034	<0.029
1,1,1-Trichloroethane	mg/Kg	8260B	0.1402	640	640	<0.025	<0.023	<0.022	<0.024	<0.024	<0.023	<0.030	<0.024	<0.028	<0.024
1,1,2,2-Tetrachloroethane	mg/Kg	8260B	0.0002	0.81	3.6	<0.026	<0.024	<0.023	<0.025	<0.025	<0.024	<0.031	<0.026	<0.029	<0.025
1,1,2-Trichloroethane	mg/Kg	8260B	0.0032	1.59	7.01	<0.023	<0.021	<0.020	<0.022	<0.022	<0.021	<0.027	<0.023	<0.026	<0.022
1,1-Dichloroethane	mg/Kg	8260B	0.4834	5.06	22.2	<0.027	<0.025	<0.024	<0.026	<0.026	<0.025	<0.032	<0.026	<0.030	<0.026
1,1-Dichloroethene	mg/Kg	8260B	0.005	320	1,190	<0.026	<0.024	<0.023	<0.025	<0.024	<0.024	<0.030	<0.025	<0.028	<0.024
1,1-Dichloropropene	mg/Kg	8260B	---	---	---	<0.020	<0.018	<0.017	<0.019	<0.019	<0.018	<0.023	<0.019	<0.022	<0.019
1,2,3-Trichlorobenzene	mg/Kg	8260B	---	62.6	934	<0.030	<0.028	<0.026	<0.029	<0.029	<0.028	<0.036	<0.029	<0.033	<0.029
1,2,3-Trichloropropane	mg/Kg	8260B	0.0519	0.005	0.109	<0.027	<0.025	<0.024	<0.026	<0.026	<0.025	<0.032	<0.027	<0.030	<0.026
1,2,4-Trichlorobenzene	mg/Kg	8260B	0.408	24	113	<0.023	<0.021	<0.020	<0.022	<0.021	<0.021	<0.027	<0.022	<0.025	<0.021
1,2,4-Trimethylbenzene	mg/Kg	8260B	1.3787**	219	219	<0.024	<0.022	<0.021	0.038 J	<0.022	<0.022	<0.028	<0.023	<0.026	<0.022
1,2-Dibromo-3-Chloropropane	mg/Kg	8260B	0.0002	0.008	0.092	<0.13	<0.12	<0.11	<0.13	<0.12	<0.12	<0.16	<0.13	<0.14	<0.12
1,2-Dibromoethane	mg/Kg	8260B	0.0000282	0.05	0.221	<0.026	<0.024	<0.022	<0.025	<0.024	<0.024	<0.030	<0.025	<0.028	<0.024
1,2-Dichlorobenzene	mg/Kg	8260B	1.168	376	376	<0.022	<0.020	<0.019	<0.021	<0.021	<0.020	<0.026	<0.021	<0.024	<0.021
1,2-Dichloroethane	mg/Kg	8260B	0.0028	0.652	2.87	<0.026	<0.024	<0.023	<0.025	<0.024	<0.024	<0.031	<0.025	<0.028	<0.025
1,2-Dichloropropane	mg/Kg	8260B	0.0033	3.4	15	<0.028	<0.026	<0.025	<0.027	<0.027	<0.026	<0.033	<0.027	<0.031	<0.027
1,3,5-Trimethylbenzene	mg/Kg	8260B	1.3787**	182	182	<0.025	<0.023	<0.022	<0.024	<0.024	<0.023	<0.030	<0.024	<0.028	<0.024
1,3-Dichlorobenzene	mg/Kg	8260B	1.1528	297	297	<0.027	<0.024	<0.023	<0.025	<0.025	<0.024	<0.031	<0.026	<0.029	<0.025
1,3-Dichloropropane	mg/Kg	8260B	0.0003	2.37	10.6	<0.024	<0.022	<0.021	<0.023	<0.023	<0.022	<0.028	<0.023	<0.026	<0.023
1,4-Dichlorobenzene	mg/Kg	8260B	0.144	3.74	16.4	<0.024	<0.022	<0.021	<0.023	<0.023	<0.022	<0.028	<0.023	<0.026	<0.023
2,2-Dichloropropane	mg/Kg	8260B	---	191	191	<0.029	<0.027	<0.026	<0.028	<0.028	<0.027	<0.035	<0.028	<0.032	<0.028
2-Chlorotoluene	mg/Kg	8260B	---	907	907	<0.021	<0.019	<0.018	<0.020	<0.020	<0.019	<0.024	<0.020	<0.023	<0.020
4-Chlorotoluene	mg/Kg	8260B	---	253	253	<0.023	<0.021	<0.020	<0.022	<0.022	<0.021	<0.027	<0.022	<0.025	<0.022
Benzene	mg/Kg	8260B	0.0051	1.6	7.07	<0.0097	<0.0089	<0.0084	<0.0093	<0.0091	***0.014 J***	<0.011	<0.0094	<0.011	<0.0091
Bromobenzene	mg/Kg	8260B	---	342	679	<0.024	<0.022	<0.021	<0.023	<0.022	<0.022	<0.028	<0.023	<0.026	<0.022
Bromochloromethane	mg/Kg	8260B	---	216	906	<0.028	<0.026	<0.025	<0.027	<0.027	<0.026	<0.033	<0.027	<0.031	<0.027
Bromodichloromethane	mg/Kg	8260B	0.0003	0.418	1.83	<0.025	<0.023	<0.021	<0.024	<0.023	<0.023	<0.029	<0.024	<0.027	<0.023
Bromoform	mg/Kg	8260B	0.0023	25.4	113	<0.032	<0.030	<0.028	<0.031	<0.030	<0.029	<0.038	<0.031	<0.035	<0.030
Bromomethane	mg/Kg	8260B	0.0051	9.6	43	<0.053	<0.049	<0.046	<0.051	<0.050	<0.049	<0.062	<0.051	<0.058	<0.050
Carbon tetrachloride	mg/Kg	8260B	0.0039	0.916	4.03	<0.025	<0.023	<0.022	<0.024	<0.024	<0.023	<0.030	<0.025	<0.028	<0.024
Chlorobenzene	mg/Kg	8260B	---	370	761	<0.026	<0.024	<0.022	<0.025	<0.024	<0.024	<0.030	<0.025	<0.028	<0.024
Chloroethane	mg/Kg	8260B	0.2266	2,120	2,120	<0.033	<0.031	<0.029	<0.032	<0.031	<0.031	<0.039	<0.032	<0.037	<0.032
Chloroform	mg/Kg	8260B	0.0033	0.454	1.98	<0.025	<0.023	<0.021	<0.023	<0.023	<0.023	<0.029	<0.024	<0.027	<0.023
Chloromethane	mg/Kg	8260B	0.0155	159	669	<0.021	<0.020	<0.018	<0.020	<0.020	<0.020	<0.025	<0.021	<0.023	<0.020
cis-1,2-Dichloroethene	mg/Kg	8260B	0.0412	156	2,340	<0.027	<0.025	<0.024	<0.026	<0.025	<0.025	<0.032	<0.026	<0.030	<0.026
cis-1,3-Dichloropropene	mg/Kg	8260B	0.0003	1,210	1,210	<0.028	<0.025	<0.024	<0.026	<0.026	<0.025	<0.032	<0.027	<0.030	<0.026
Dibromochloromethane	mg/Kg	8260B	0.032	8.28	38.9	<0.032	<0.030	<0.028	<0.031	<0.030	<0.030	<0.038	<0.031	<0.035	<0.031
Dibromomethane	mg/Kg	8260B	---	34	143	<0.018	<0.016	<0.016	<0.017	<0.017	<0.016	<0.021	<0.017	<0.020	<0.017
Dichlorodifluoromethane	mg/Kg	8260B	3.0863	126	530	<0.045	<0.041	<0.039	<0.043	<0.042	<0.041	<0.053	<0.043	<0.049	<0.042
Ethylbenzene	mg/Kg	8260B	1.57	8.02	35.4	<0.012	<0.011	<0.011	<0.012	<0.011	<0.011	<0.014	<0.012	<0.013	<0.011
Hexachlorobutadiene	mg/Kg	8260B	---	1.63	7.19	<0.030	<0.027	<0.026	<0.028	<0.028	<0.027	<0.035	<0.029	<0.032	<0.028
Isopropyl ether	mg/Kg	8260B	---	2,260	2,260	<0.018	<0.017	<0.016	<0.018	<0.017	<0.017	<0.022	<0.018	<0.020	<0.017
Isopropylbenzene	mg/Kg	8260B	---	268	268	<0.025	<0.023	<0.022	<0.024	<0.024	<0.023	<0.030	<0.025	<0.028	<0.024
Methyl tert-butyl ether	mg/Kg	8260B	0.027	63.8	282	<0.026	<0.024	<0.023	<0.025	<0.025	<0.024	<0.031	<0.025	<0.029	<0.025
Methylene Chloride	mg/Kg	8260B	0.0026	61.8	1,150	<0.11	<0.10	<0.094	<0.10	<0.10	<0.099	<0.13	<0.10	<0.12	<0.10
Naphthalene	mg/Kg	8260B	0.658182	5.52	24.10	<0.022	<0.020	<0.019	0.12	<0.021	0.036 J	<0.026	<0.021	<0.024	<0.021
n-Butylbenzene	mg/Kg	8260B	---	108	108	<0.026	<0.024	<0.022	<0.025	<0.024	<0.024	<0.030	<0.025	<0.028	<0.024
N-Propylbenzene	mg/Kg	8260B	---	264	264	<0.027	<0.025	<0.024	<0.026	<0.026	<0.025	<0.032	<0.027	<0.030	<0.026
p-Isopropyltoluene	mg/Kg	8260B	---	162	162	<0.024	<0.022	<0.021	<0.023	<0.023	<0.022	<0.028	<0.023	<0.026	<0.023
sec-Butylbenzene	mg/Kg	8260B	---	145	145	<0.026	<0.024	<0.023	<0.025	<0.025	<0.024	<0.031	<0.026	<0.029	<0.025
Styrene	mg/Kg	8260B	0.22	867	867	<0.026	<0.024	<0.022	<0.025	<0.024	<0.024	<0.030	<0.025	<0.028	<0.024
tert-Butylbenzene	mg/Kg	8260B	---	183	183	<0.026	<0.024	<0.023	<0.025	<0.025	<0.024	<0.031	<0.026	<0.029	<0.025
Tetrachloroethene	mg/Kg	8260B	0.0045	33	145	<0.025	<0.023	***0.28***	<0.023	***0.097***	<0.023	<0.029	<0.024	<0.027	<0.023
Toluene	mg/Kg	8260B	1.1072	818	818	<0.0097	<0.0090	<0.0085	0.029	<0.0091	0.074	<0.011	<0.0094	<0.011	<0.0092
trans-1,2-Dichloroethene	mg/Kg	8260B	0.0626	1560	1850	<0.023	<0.021	<0.020	<0.022	<0.022	<0.021	<0.027	<0.022	<0.025	<0.022
trans-1,3-Dichloropropene	mg/Kg	8260B	---	1,510	1,510	<0.024	<0.022	<0.021	<0.023	<0.023	<0.022	<0.028	<0.023	<0.026	<0.023
Trichloroethene	mg/Kg	8260B	0.0036	1.3	8.41	<0.011	***0.049***	**1.3**	***0.22***	***0.29***	***0.26***	<0.013	***0.061***	<0.012	<0.010
Trichlorofluoromethane	mg/Kg	8260B	---	1,230	1,230	<0.028	<0.026	<0.025	<0.027	<0.027	<0.026	<0.033	<0.027	<0.031	<0.027
Vinyl chloride	mg/Kg	8260B	0.0001	0.067	2.08	<0.017	<0.016	<0.015	<0.017	<0.016	<0.016	<0.020	<0.017	<0.019	<0.016
Xylenes, Total	mg/Kg	8260B	3.96	1,212	1212	<0.015	<0.013	<0.013	0.068	<0.014	0.022 J	<0.017	<0.014	<0.016	<0.014

Notes:
(1) From WDNR RCLs Worksheet dated December 2018
BOLD Italicized values exceed Groundwater Protection
BOLD values exceed Non-Industrial Direct Contact
BOLD Underlined values exceed 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 valu
B = Compund was found in blank and sample

KSingh Engineers Scientists Consultants

East Building Level 1

Sample	SW - B1
Depth (feet)	3 - 4
Sampling Date	7/19/2023
VOCs	
Trichloroethene	*0.026 J*

Sample	SW - B2
Depth (feet)	3 - 4
Sampling Date	7/19/2023
VOCs	
Trichloroethene	*0.09*

Sample	SW - B3
Depth (feet)	3 - 4
Sampling Date	7/19/2023
VOCs	
Trichloroethene	*0.035*

Sample	SW - B4
Depth (feet)	3 - 4
Sampling Date	7/19/2023
VOCs	
Trichloroethene	*0.22*

Sample	SW - B5
Depth (feet)	3 - 4
Sampling Date	7/19/2023
VOCs	
Trichloroethene	*0.15*

Sample	SW - B6
Depth (feet)	3 - 4
Sampling Date	7/19/2023
VOCs	
Toluene	*0.0095 J B*
Trichloroethene	*1*

Sample	SW - B7
Depth (feet)	3 - 4
Sampling Date	7/19/2023
VOCs	
Naphthalene	*0.021 J*
Trichloroethene	0.32
Xylenes, Total	0.014 J

Sample	SW - B8
Depth (feet)	1 - 2
Sampling Date	7/20/2023
VOCs	
1,2,4-Trimethylbenzene	*0.089*
Benzene	*0.042*
Chloromethane	*0.027 J*
Ethylbenzene	*0.035*
Isopropylbenzene	*0.032 J*
Naphthalene	*0.11*
N-Propylbenzene	*0.042 J*
Tetrachloroethene	*0.031 J*
Toluene	*0.18 B*
Trichloroethene	*12*
Xylenes, Total	*0.33*

Sample	SW - B9
Depth (feet)	3 - 4
Sampling Date	7/20/2023
VOCs	
1,1,1-Trichloroethane	*0.048 J*
Chloromethane	*0.031 J*

Sample	SW - B10
Depth (feet)	3 - 4
Sampling Date	7/20/2023
VOCs	
Chloromethane	*0.028 J*

Sample	SW - B11
Depth (feet)	3 - 4
Sampling Date	7/20/2023
VOCs	
1,1,1-Trichloroethane	*1.5*
Trichloroethene	0.14

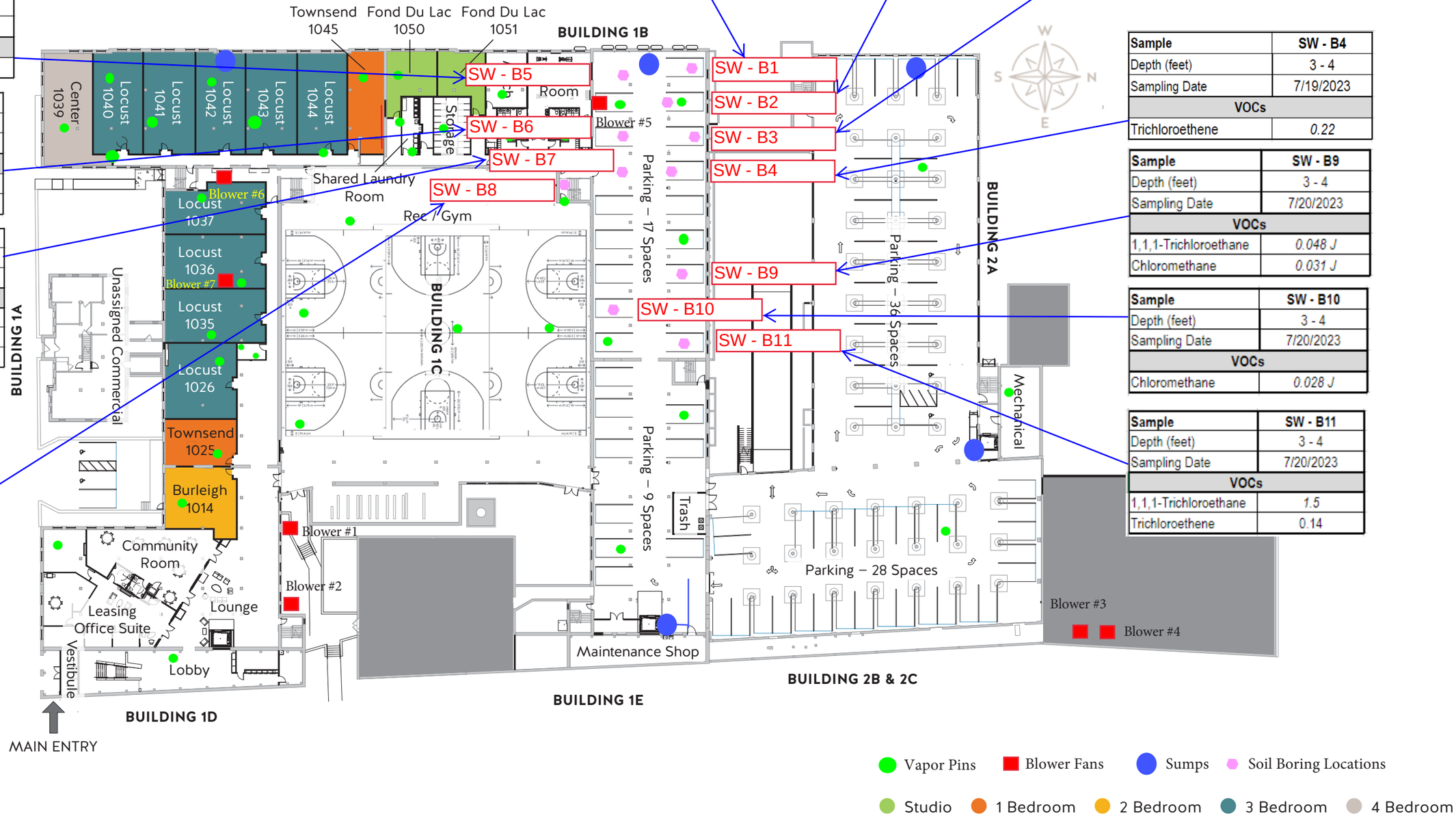


Figure 1. Locations of Soil Borings and their VOC contents (in mg/kg)

TABLE A.3
SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441B

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	Background Threshold Value	Method Detection Limit	SW - B1	SW - B2	SW - B3	SW - B4	SW - B5	SW - B6	SW - B7	SW - B8	SW - B9	SW - B10	SW - B11
Depth (feet)								3 - 4	3 - 4	3 - 4	3 - 4	3 - 4	3 - 4	3 - 4	1 - 2	3 - 4	3 - 4	3 - 4
Soil Type								Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Gravelly SAND	Silty CLAY	Silty CLAY	Silty CLAY
Soil Conditions								Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
Sampling Date								7/19/2023	7/19/2023	7/19/2023	7/19/2023	7/19/2023	7/19/2023	7/19/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023
Physical Characteristics																		
Percent Solids								88.4	90.2	90	90.7	90	90.1	90.3	84.9	85.6	81.4	85.7
Volatile Organic Compounds (VOCs)																		
1,1,1,2-Tetrachloroethane	mg/Kg	8260B	*0.0534*	**2.78**	**12.3**	---	0.029	<0.029	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.033	<0.031	<0.034	<0.031
1,1,1-Trichloroethane	mg/Kg	8260B	*0.1402*	**640**	**640**	---	0.024	<0.024	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.027	0.048 **J**	<0.028	*1.5*
1,1,2,2-Tetrachloroethane	mg/Kg	8260B	*0.0002*	**0.81**	**3.6**	---	0.025	<0.025	<0.024	<0.024	<0.024	<0.024	<0.025	<0.024	<0.028	<0.027	<0.029	<0.027
1,1,2-Trichloroethane	mg/Kg	8260B	*0.0032*	**1.59**	**7.01**	---	0.022	<0.022	<0.021	<0.022	<0.021	<0.021	<0.022	<0.021	<0.025	<0.024	<0.026	<0.024
1,1-Dichloroethane	mg/Kg	8260B	*0.4834*	**5.06**	**22.2**	---	0.026	<0.026	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.029	<0.028	<0.030	<0.028
1,1-Dichloroethene	mg/Kg	8260B	*0.005*	**320**	**1,190**	---	0.024	<0.024	<0.024	<0.024	<0.024	<0.023	<0.024	<0.024	<0.028	<0.026	<0.029	<0.026
1,1-Dichloropropene	mg/Kg	8260B	---	---	---	---	0.019	<0.019	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.021	<0.020	<0.022	<0.020
1,2,3-Trichlorobenzene	mg/Kg	8260B	---	**62.6**	**934**	---	0.029	<0.029	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.033	<0.031	<0.034	<0.031
1,2,3-Trichloropropane	mg/Kg	8260B	*0.0519*	**0.005**	**0.109**	---	0.026	<0.026	<0.025	<0.025	<0.025	<0.025	<0.026	<0.025	<0.029	<0.028	<0.030	<0.028
1,2,4-Trichlorobenzene	mg/Kg	8260B	*0.408*	**24**	**113**	---	0.021	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021 **F1**	<0.021	<0.024	<0.023	<0.025	<0.023
1,2,4-Trimethylbenzene	mg/Kg	8260B	*1.3787***	**219**	**219**	---	0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	0.089	<0.024	<0.026	<0.024
1,2-Dibromo-3-Chloropropane	mg/Kg	8260B	*0.0002*	**0.008**	**0.092**	---	0.120	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12 **F1**	<0.12	<0.14	<0.13	<0.15	<0.13
1,2-Dibromoethane	mg/Kg	8260B	*0.0000282*	**0.05**	**0.221**	---	0.024	<0.024	<0.023	<0.024	<0.023	<0.023	<0.024	<0.023	<0.027	<0.026	<0.028	<0.026
1,2-Dichlorobenzene	mg/Kg	8260B	*1.168*	**376**	**376**	---	0.021	<0.021	<0.020	<0.020	<0.020	<0.020	<0.021	<0.020	<0.024	<0.022	<0.024	<0.023
1,2-Dichloroethane	mg/Kg	8260B	*0.0028*	**0.652**	**2.87**	---	0.025	<0.025	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.028	<0.026	<0.029	<0.026
1,2-Dichloropropane	mg/Kg	8260B	*0.0033*	**3.4**	**15**	---	0.027	<0.027	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.030	<0.029	<0.031	<0.029
1,3,5-Trimethylbenzene	mg/Kg	8260B	*1.3787***	**182**	**182**	---	0.024	<0.024	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.027	<0.026	<0.028	<0.026
1,3-Dichlorobenzene	mg/Kg	8260B	*1.1528*	**297**	**297**	---	0.025	<0.025	<0.024	<0.025	<0.024	<0.024	<0.025	<0.024	<0.028	<0.027	<0.029	<0.027
1,3-Dichloropropane	mg/Kg	8260B	*0.0003*	**2.37**	**10.6**	---	0.023	<0.023	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.026	<0.024	<0.027	<0.024
1,4-Dichlorobenzene	mg/Kg	8260B	*0.144*	**3.74**	**16.4**	---	0.023	<0.023	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.026	<0.024	<0.027	<0.025
2,2-Dichloropropane	mg/Kg	8260B	---	**191**	**191**	---	0.028	<0.028	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.032	<0.030	<0.033	<0.030
2-Chlorotoluene	mg/Kg	8260B	---	**907**	**907**	---	0.020	<0.020	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	<0.022	<0.021	<0.023	<0.021
4-Chlorotoluene	mg/Kg	8260B	---	**253**	**253**	---	0.022	<0.022	<0.021	<0.021	<0.021	<0.021	<0.022	<0.021	<0.025	<0.024	<0.026	<0.024
Benzene	mg/Kg	8260B	*0.0051*	**1.6**	**7.07**	---	0.0092	<0.0092	<0.0089	<0.0090	<0.0088	<0.0088	<0.0090	<0.0088	0.042	<0.0098	<0.011	<0.0098
Bromobenzene	mg/Kg	8260B	---	**342**	**679**	---	0.022	<0.022	<0.022	<0.022	<0.021	<0.022	<0.022	<0.022	<0.025	<0.024	<0.026	<0.024
Bromochloromethane	mg/Kg	8260B	---	**216**	**906**	---	0.027	<0.027	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.030	<0.029	<0.031	<0.029
Bromodichloromethane	mg/Kg	8260B	*0.0003*	**0.418**	**1.83**	---	0.023	<0.023	<0.023	<0.023	<0.022	<0.022	<0.023	<0.023	<0.026	<0.025	<0.027	<0.025
Bromoform	mg/Kg	8260B	*0.0023*	**25.4**	**113**	---	0.030	<0.030	<0.029	<0.030	<0.029	<0.029	<0.030	<0.029	<0.034	<0.033	<0.035	<0.033
Bromomethane	mg/Kg	8260B	*0.0051*	**9.6**	**43**	---	0.050	<0.050	<0.048	<0.049	<0.048	<0.048	<0.049	<0.048	<0.057	<0.053	<0.058	<0.054
Carbon tetrachloride	mg/Kg	8260B	*0.0039*	**0.916**	**4.03**	---	0.024	<0.024	<0.023	<0.024	<0.023	<0.023	<0.024	<0.023	<0.027	<0.026	<0.028	<0.026
Chlorobenzene	mg/Kg	8260B	---	**370**	**761**	---	0.024	<0.024	<0.023	<0.024	<0.023	<0.023	<0.024	<0.023	<0.027	<0.026	<0.028	<0.026
Chloroethane	mg/Kg	8260B	*0.2266*	**2,120**	**2,120**	---	0.032	<0.032	<0.031	<0.031	<0.030	<0.030	<0.031	<0.031	<0.036	<0.034	<0.037	<0.034
Chloroform	mg/Kg	8260B	*0.0033*	**0.454**	**1.98**	---	0.023	<0.023	<0.022	<0.023	<0.022	<0.022	<0.023	<0.022	<0.026	<0.025	<0.027	<0.025
Chloromethane	mg/Kg	8260B	*0.0155*	**159**	**669**	---	0.020	<0.020	<0.019	<0.020	<0.019	<0.019	<0.020	<0.019	0.027 **J**	0.031 **J**	0.028 **J**	<0.022
cis-1,2-Dichloroethene	mg/Kg	8260B	*0.0412*	**156**	**2,340**	---	0.026	<0.026	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.029	<0.027	<0.030	<0.028
cis-1,3-Dichloropropene	mg/Kg	8260B	*0.0003*	**1,210**	**1,210**	---	0.026	<0.026	<0.026	<0.025	<0.026	<0.025	<0.025	<0.026	<0.030	<0.028	<0.031	<0.028
Dibromochloromethane	mg/Kg	8260B	*0.032*	**8.28**	**38.9**	---	0.031	<0.031	<0.030	<0.030	<0.029	<0.030	<0.030	<0.030	<0.035	<0.033	<0.036	<0.033
Dibromomethane	mg/Kg	8260B	---	**34**	**143**	---	0.017	<0.017	<0.016	<0.017	<0.016	<0.016	<0.017	<0.016	<0.019	<0.018	<0.020	<0.018
Dichlorodifluoromethane	mg/Kg	8260B	*3.0863*	**126**	**530**	---	0.042	<0.042	<0.041	<0.041	<0.041	<0.041	<0.042	<0.041	<0.048	<0.045	<0.049	<0.045
Ethylbenzene	mg/Kg	8260B	*1.57*	**8.02**	**35.4**	---	0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	0.035	<0.012	<0.013	<0.012
Hexachlorobutadiene	mg/Kg	8260B	---	**1.63**	**7.19**	---	0.028	<0.028	<0.027	<0.027	<0.027	<0.027	<0.027 **F1**	<0.027	<0.032	<0.030	<0.033	<0.030
Isopropyl ether	mg/Kg	8260B	---	**2,260**	**2,260**	---	0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.020	<0.019	<0.020	<0.019
Isopropylbenzene	mg/Kg	8260B	---	**268**	**268**	---	0.024	<0.024	<0.023	<0.024	<0.023	<0.023	<0.024	<0.023	0.032 **J**	<0.026	<0.028	<0.026
Methyl tert-butyl ether	mg/Kg	8260B	*0.027*	**63.8**	**282**	---	0.025	<0.025	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.028	<0.026	<0.029	<0.027
Methylene Chloride	mg/Kg	8260B	*0.0026*	**61.8**	**1,150**	---	0.100	<0.10	<0.099	<0.10	<0.098	<0.099	<0.10	<0.099	<0.12	<0.11	<0.12	*<0.11*
Naphthalene	mg/Kg	8260B	*0.658182*	**5.52**	**24.10**	---	0.021	<0.021	<0.020	<0.020	<0.020	<0.020	<0.021	0.021 **J**	0.11	<0.022	<0.024	<0.023
n-Butylbenzene	mg/Kg	8260B	---	**108**	**108**	---	0.024	<0.024	<0.024	<0.024	<0.023	<0.023	<0.024	<0.023	<0.028	<0.026	<0.028	<0.026
N-Propylbenzene	mg/Kg	8260B	---	**264**	**264**	---	0.026	<0.026	<0.025	<0.025	<0.025	<0.025	<0.026	<0.025	0.042 **J**	<0.028	<0.030	<0.028
p-Isopropyltoluene	mg/Kg	8260B	---	**162**	**162**	---	0.023	<0.023	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.026	<0.024	<0.027	<0.024
sec-Butylbenzene	mg/Kg	8260B	---	**145**	**145**	---	0.025	<0.025	<0.024	<0.024	<0.024	<0.024	<0.025	<0.024	<0.028	<0.027	<0.029	<0.027
Styrene	mg/Kg	8260B	*0.22*	**867**	**867**	---	0.024	<0.024	<0.023	<0.024	<0.023	<0.023	<0.024	<0.023	<0.027	<0.026	<0.028	<0.026
tert-Butylbenzene	mg/Kg	8260B	---	**183**	**183**	---	0.025	<0.025	<0.024	<0.024	<0.024	<0.024	<0.025	<0.024	<0.028	<0.027	<0.029	<0.027
Tetrachloroethene	mg/Kg	8260B	*0.0045*	**33**	**145**	---	0.023	<0.023	<0.022	<0.023	<0.022	<0.022	<0.023	<0.022	*0.031* **J**	<0.025	<0.027	<0.025
Toluene	mg/Kg	8260B	*1.1072*	**818**	**818**	---	0.0092	<0.0092	<0.0089	<0.0090	<0.0088	<0.0089	0.0095 **J B**	<0.0089	0.18 **B**	<0.0099	<0.011	<0.0099
trans-1,2-Dichloroethene	mg/Kg	8260B	*0.0626*	**1560**	**1850**	---	0.022	<0.022	<0.021	<0.021	<0.021	<0.021	<0.022	<0.021	<0.025	<0.024	<0.026	<0.024
trans-1,3-Dichloropropene	mg/Kg	8260B	---	**1,510**	**1,510**	---	0.023	<0.023	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.026	<0.024	<0.027	<0.024
Trichloroethene	mg/Kg	8260B	*0.0036*	**1.3**	**8.41**	---	0.010	*0.026* **J**	*0.09*	*0.035*	*0.22*	*0.15*	*1*	*0.32*	*12*	*<0.011*	*<0.012*	*0.14*
Trichlorofluoromethane	mg/Kg	8260B	---	**1,230**	**1,230**	---	0.027	<0.027	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.030	<0.029	<0.031	<0.029
Vinyl chloride	mg/Kg	8260B	*0.0001*	**0.067**	**2.08**	---	0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.019	<0.018	<0.019	<0.018
Xylenes, Total	mg/Kg	8260B	*3.96*	**1,212**	**1212**	---	0.014	<0.014	<0.013	<0.013	<0.013	<0.013	<0.014	0.014 **J**	0.33	<0.015	<0.016	<0.015

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TABLE A.3
SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441B

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	Background Threshold Value	Method Detection Limit	**SW - B1**	**SW - B2**	**SW - B3**	**SW - B4**	**SW - B5**	**SW - B6**	**SW - B7**	**SW - B8**	**SW - B9**	**SW - B10**	**SW - B11**
Depth (feet)								3 - 4	3 - 4	3 - 4	3 - 4	3 - 4	3 - 4	3 - 4	1 - 2	3 - 4	3 - 4	3 - 4
Soil Type								Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Gravelly SAND	Silty CLAY	Silty CLAY	Silty CLAY
Soil Conditions								Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
Sampling Date								7/19/2023	7/19/2023	7/19/2023	7/19/2023	7/19/2023	7/19/2023	7/19/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023

(1) From WDNR RCLs Worksheet dated December 2018

Italicized 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

B = Compound was found in the blank and sample

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

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