



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

Remediation and Redevelopment Division

REQUEST FOR EGLE REVIEW OF RESPONSE ACTIVITY PLAN

This form is required for submittal of a request for EGLE to review a Response Activity Plan, under Section 20114b, Part 201, Environmental Remediation, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

SECTION A: TYPE OF RESPONSE ACTIVITY PLAN BEING SUBMITTED (Check all that apply):

- | | |
|---|--|
| ☐ Remedial Investigation | ☐ Section 20118(4) and (5) Request |
| ☒ Evaluation Plan | ☐ Land or Resource Use Restrictions |
| ☐ Feasibility Study | ☐ Other (Please specify below) |
| ☐ Remedial Action Plan | If Other: |
| ☐ Interim Response Plan | |
| ☐ Mixing Zone Request | |
| ☐ 20e(14) De Minimus GSI Impact | |
| ☐ 20b(2) Site Specific Criteria (modification of generic criteria) | |
| ☐ 20b(3) Site Specific Criteria or Surrogate (no generic criteria available) | |

The Response Activity Plan addresses the entire facility: ☐
(entire facility as defined by Part 201, all releases, hazardous substances, and environmental media)

The Response Activity Plan does not address the entire facility: ☒

Please specify the release(s), hazardous substance(s), environmental media, and/or portions of the facility address by the Response Activity Plan:

This Plan is for evaluating the volatilization to indoor air pathway (VIAP) and assessing the electrical panel area

SECTION B: FACILITY/PROPERTY SUBJECT TO (Check all that apply):Facility Regulated under Part 201: ☐

Part 201 Facility ID (if known): _____

Leaking Underground Storage Tank regulated pursuant to Part 213: ☐

Part 211/213 Facility ID (if known): _____

Oil or gas production and development regulated pursuant to Part 615 or 625 ☐Licensed landfill regulated pursuant to Part 115 ☐Licensed hazardous waste treatment, storage, or disposal facility regulated pursuant to Part 111 ☐Consent Agreement or other legal agreement with EGLE ☐**SECTION C: FACILITY AND LOCATIONAL INFORMATION:**

Facility Name: Phase 1A & 1B of Proposed Parkside Village County: Kent

Street Address of Property: 5250 Conner Street

City: Detroit State: MI ZIP Code: 48213

City/Village/Township: Detroit

Property Tax ID (Include all applicable IDs): 210462202-11

Town: _____ Section: _____ Range: _____

Quarter: _____ Quarter-Quarter: _____

Decimal Degrees Latitude: 42.3909

Decimal Degrees Longitude: -82.9781

Reference Point for Latitude and Longitude: ☒ Center of Site ☐ Main/Front Door☐ Front Gate/Main Entrance ☐ Other If Other: _____Collection Method: ☐ Survey ☒ GPS ☐ Interpolation

Status of submitter relative to the property (check all that apply):

☐ Former Owner
 ☐ Current Owner
 ☒ Prospective Owner
 ☐ Former Operator
☐ Current Operator
 ☒ Prospective Operator

SECTION D: SUBMITTER INFORMATION:

Entity/Person requesting review: GDC-DHC Parkside I Limited Dividend Housing Association, LLC

Contact Person (name and title): Amin Irving, Authorized Agent

Submitter Address: 41800 W. 11 Mile Road, Suite 209

City: Novi State: Michigan ZIP Code: 48375

Phone Number: 248-513-4900 Email Address: airving@ginosko.com

Relationship of contact person to the submitter: _____

Owner Name, if different from submitter: City of Detroit P&DD, Care of DBA

Company: _____

Address: _____

City: _____ State: _____ ZIP Code: _____

Phone Number: _____ Email Address: _____

SECTION E: ARE/WERE THE FOLLOWING PRESET AT THE FACILITY (Check all that apply):

Mobile or Migrating Non-Aqueous Phase Liquids (NAPL)	☐ Current	☐ Previous	☐ Unknown
Soil contamination above any residential criteria	☒ Current	☐ Previous	☐ Unknown
Soil contamination above any non-residential criteria	☒ Current	☐ Previous	☐ Unknown
Soil aesthetic impacts	☒ Current	☐ Previous	☐ Unknown
Groundwater contamination above any residential criteria	☐ Current	☐ Previous	☐ Unknown

Groundwater contamination above any non-residential
Criteria

☐ Current ☐ Previous ☐ Unknown

Groundwater contamination above the Acute Inhalation
Screening Level

☐ Current ☐ Previous ☐ Unknown

Groundwater aesthetic impacts

☐ Current ☐ Previous ☐ Unknown

Soil Gas contamination above residential vapor intrusion
(VI) screening levels

☐ Current ☐ Previous ☐ Unknown

Soil Gas contamination above non-residential VI
screening levels

☐ Current ☐ Previous ☐ Unknown

Conditions immediately dangerous to life or health (IDLH)

☐ Current ☐ Previous ☐ Unknown

Fire & Explosion hazards related to releases

☐ Current ☐ Previous ☐ Unknown

Contamination existing in drinking water supply

☐ Current ☐ Previous ☐ Unknown

Imminent threat to drinking water supply

☐ Current ☐ Previous ☐ Unknown

Impact to Surface Water

☐ Current ☐ Previous ☐ Unknown

Surface Water Sediments above screening levels

☐ Current ☐ Previous ☐ Unknown

SECTION F: THE FOLLOWING QUESTIONS ASSIST EGLE IN EVALUATING THIS REQUEST:

Known or Suspected Contaminant(s) Type (Check all that apply):

☐ Petroleum ☒ Volatile Organic Compounds ☒ Metals ☒ Other

If Other, please specify: PNAS

Current Site Status (Check all that apply):

☐ Undergoing Property Transfer ☐ Active Operations ☒ Inactive Operation

Current Property Use:

☒ Residential ☐ Non-Residential

Anticipated Property Use:

☒ Residential ☐ Non-Residential

Estimated Area of Contamination Addressed in Response Action Plan (Cumulative):

☐ Currently undetermined ☐ <0.5 acre ☒ >0.5 acre

Migration:

Has contamination migrated beyond the property boundaries? ☐ Yes ☒ No ☐ Unknown

Has the Notice of Migration been submitted? ☐ Yes ☒ No ☐ Unknown

Facility Investigation Status:

☒ Ongoing ☐ Complete

Facility Response Activity Status (Check all that apply):

☒ None ☐ IR Implemented ☐ Response Activity Ongoing ☐ Response Activity Complete

Drinking Water Supply for Facility (Check all that apply):

☒ Municipal ☐ Private Well(s) ☐ No Current Water Supply ☐ Municipal Available

On-Site Well(s) (Check all that apply):

☐ Drinking Water ☐ Industrial/Commercial Production ☐ Agricultural/Irrigation

☒ No well on-site Approximate Depth of Well(s): _____

Local Drinking Water Supply:

Is the facility in a designated Wellhead Protection Area? ☐ Yes ☒ No

Distance to nearest off-site drinking water well - Municipal: >1 Mile

Distance to nearest off-site drinking water well - Private: >1 Mile

Surface Water Bodies on or Adjacent to Facility (Check all that apply):

☐ Wetlands ☐ Ditch ☐ Stream/River ☐ Lake/Pond

Local Surface Water Bodies (All four below distances required):

Distance to nearest wetland: >1 Mile Ditch: >1 Mile
 Stream/River: ~2.5 Miles South Lake/Pond: ~1,300 feet North

Have other plans been submitted for this facility?

Facility Name, if different than this submittal: _____
 Date and Name of most recent submittal: _____

SECTION G: ENVIRONMENTAL PROFESSIONAL SIGNATURE:

With my signature below, I certify that this plan and all related materials are true, accurate, and complete to the best of my knowledge and belief.

	Jade Gillette	8/12/2024
Signature	Print Name	Date

Company of Environmental Professional:

Triterra

Address: 625 Kenmoor Ave SE, Suite 109

City: Grand Rapids State: MI ZIP Code: 49546

Phone Number: 616-349-7342 Email Address: jade.gillette@triterra.us

Continue to next page for Section H: Submitter Signature

SECTION H: SUBMITTER SIGNATURE:

With my signature below, I certify that this plan and all related materials are true, accurate, and complete to the best of my knowledge and belief and I am legally authorized to sign for the submitter.

Signed by:  DC93A03278E640E	Amin Irving	8/10/2024 12:51 AM
Signature	Print Name	Date

Title/Relationship of signatory to submitter:

Authorized Agent for GDC-DHC Parkside I Limited Dividend Housing Association, LLC

Address: 41800 W. 11 Mile Road, Suite 209

City: Novi State: Michigan ZIP Code: 48375

Phone Number: 248-513-4900 Email Address: airving@ginosko.com

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Contact Person (name and title): Amin Irving, Authorized Agent

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Phone Number: 248-513-4900 Email Address: airving@ginosko.com

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Signature	Print Name	Date

Company of Environmental Professional:

Triterra

Address: 625 Kenmoor Ave SE, Suite 109

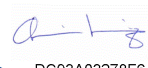
City: Grand Rapids State: MI ZIP Code: 49546

Phone Number: 616-349-7342 Email Address: jade.gillette@triterra.us

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Signature	Print Name	Date

Title/Relationship of signatory to submitter:

Authorized Agent for GDC-DHC Parkside II Limited Dividend Housing Association, LLC

Address: 41800 W. 11 Mile Road, Suite 209

City: Novi State: Michigan ZIP Code: 48375

Phone Number: 248-513-4900 Email Address: airving@ginosko.com

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RESPONSE ACTIVITY PLAN - EVALUATION PLAN

5250 Conner Street
Detroit, Michigan 48213

Project No. 23-3626

August 2024

PREPARED FOR:

GDC-DHC Parkside I Limited Dividend Housing Association, LLC &
GDC-DHC Parkside II Limited Dividend Housing Association, LLC

Attn: Mr. Nathan Keup
41800 W. 11 Mile Road, Suite 209
Novi, Michigan 48375

PREPARED BY:

TRI TERRA



RESPONSE ACTIVITY PLAN – EVALUATION PLAN

In Accordance with Section 20114b

***Phase 1A and Phase 1B of the
Proposed Parkside Village 1 Development
5250 Conner Street
Detroit, Michigan 48213***

August 16, 2024

Prepared For:

***GDC-DHC Parkside I Limited Dividend Housing Association, LLC and
GDC-DHC Parkside II Limited Dividend Housing Association, LLC
Attn: Mr. Nathan Keup
41800 W. 11 Mile Road, Suite 209
Novi, Michigan 48375***

Prepared By:

***Triterra
625 Kenmoor Avenue SE, Suite 109
Grand Rapids, Michigan 49546
(616) 349-7350***

Project No. 23-3626



Response Activity Plan – Evaluation Plan

Phase 1A and Phase 1B of the

Proposed Parkside Village 1 Development

5250 Conner Street, Detroit, Michigan 48213

August 16, 2024



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FIGURES

Figure 1: Property Location

Figure 2: General Diagram of the Subject Property with Current and Proposed Site Features

Figure 3: Soil Sampling Locations with Analytical Exceedances

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Table 1: Summary of Soil Analytical Results

ATTACHMENTS

Attachment A: Legal Description and Survey of Subject Property

Attachment B: Phase I ESA Report, May 2, 2024, Triterra

Attachment C: 2014 MDEQ Figures, Boring Logs, and Analytical Tables

Attachment D: 2024 Boring Logs

Attachment E: 2024 Laboratory Analytical Results

Attachment F: EGLE Site-Specific Volatilization to Indoor Air Criteria (SSVIAC) dated May 31, 2024.

Attachment G: Professional Qualifications



Response Activity Plan – Evaluation Plan

Phase 1A and Phase 1B of the

Proposed Parkside Village 1 Development

5250 Conner Street, Detroit, Michigan 48213

August 9, 2024



1.0 INTRODUCTION

This Response Activity Plan - Evaluation Plan (ResAP) was prepared by Triterra on behalf of GDC-DHC Parkside I Limited Dividend Housing Association, LLC and GDC-DHC Parkside II Limited Dividend Housing Association, LLC (prospective owners/submitter) for approximately 5.28 acres of vacant land located at 5250 Connor Street in Detroit, Wayne County, Michigan (hereinafter referred to as the subject property).

This ResAP documents the additional site investigations proposed by the submitter, including evaluating the volatilization to indoor air pathway (VIAP) and assessing the electrical panel area, for determining and managing future environmental due care obligations at the subject property. The submitter has approval for the Michigan State Housing Development Authority (MSHDA) 9% Low-Income Housing Tax Credit (LIHTC) Gap Financing Program. Therefore, a review and concurrence with this ResAP is being requested of the Michigan Department of Environment, Great Lakes, and Energy (EGLE) under Section 20114b of Part 201 of Act 451 of 1994, as amended, commonly known as the Natural Resources and Environmental Protection Act (NREPA).

GDC-DHC Parkside I Limited Dividend Housing Association, LLC and GDC-DHC Parkside II Limited Dividend Housing Association, LLC anticipate purchasing the property in October 2024.

2.0 DETAILED PROPERTY DESCRIPTION

The subject property is primarily located at 5250 Connor Street in Detroit, Wayne County, Michigan (Figure 1).

The subject property is comprised of the approximate 5.28-acre southern portion of Parcel No. 210462202-11 which is referred to as Phase 1A and Phase 1B of the proposed Village 1 development. A legal description and survey are included as Attachment A. The subject property is currently vacant land. Three residential apartment buildings are proposed for construction on the subject property. Refer to Figure 2 for a General Diagram of the Subject Property with Current and Proposed Site Features.

The area of the subject property is a mix of residential, commercial, and industrial properties.

The area of the subject property is serviced by municipal water, sewer, electric, and natural gas.

There are no buildings, roof drains, storm sewers, floor drains, septic tanks, or drain fields currently present or in use on the subject property. Any water or waste flow pathways are limited to natural precipitation runoff.

There are no underground storage tanks (USTs) or aboveground storage tanks (ASTs) present on the subject property.

There are no containers of hazardous substances present on the subject property.

Beyond surface runoff from natural precipitation events, there are no conditions at the subject property that may result in the erosion of surface soil.

Response Activity Plan – Evaluation Plan

Phase 1A and Phase 1B of the

Proposed Parkside Village 1 Development

5250 Conner Street, Detroit, Michigan 48213

August 9, 2024



While there are no significant areas of bare soil, the property is vacant and unpaved and, therefore, there is the potential for wind erosion to result in dispersion of particulate or volatile hazardous substances from surface soils.

There are no conditions at the subject property representative of fire and/or explosion hazards.

3.0 PROPERTY USE

3.1 Current and/or Intended Use

The subject property is currently vacant land. Refer to Figure 2 for a detailed map of the subject property. The subject property can be accessed via automobile or on foot; however, the entire property is currently fenced to discourage access or trespass to the property.

Current plans for the construction of three four-story residential apartment buildings. The proposed buildings will be constructed as slab-on-grade with elevator pits extending to an estimated depth of approximately five feet below the slab. Refer to Figure 2 for the proposed site features.

No conditions at present at the subject property that could be affected by the current or intended property use resulting in erosion of surface soils or dispersion of particulate or volatile hazardous substances from surface soils creating a risk to off-site properties.

Other than local zoning restrictions, no land or resource restrictions or institutional controls are established for the subject property.

No response activities are currently being completed on the subject property by a liable or non-liable person.

3.2 Historical Property Use

Triterra completed a Phase I Environmental Site Assessment (ESA) for the subject property dated May 2, 2024, in conformance with the American Society for Testing and Materials Designation: E 1527-21 Phase I Environmental Site Assessment Process (ASTM E 1527-21). The Phase I ESA was also completed on the north adjoining property (12700 Harper Street) and properties to the south and southeast (12001 and 12019 E. Warren Avenue) which are not the subject of this ResAP. A copy of the Phase I ESA is included in Appendix B.

Based on Triterra's review of historical information, the subject property was undeveloped from at least 1937 until 1940. In 1940, Parkside Apartments were constructed on the subject property and the subject property operated as an apartment complex until at least 1999. The apartment buildings were razed between 1999 and 2005, and the property has been vacant since that time.

The following REC pertinent to the subject property was identified in Triterra's May 2024 Phase I ESA:

- **The documented presence of soil contamination on the subject property.** On June 2 and 3, 2014, seven surficial soil and thirteen soil boring samples were collected, across the 5250 Conner Street parent parcel, for chemical analysis of one or more of the following parameters: volatile organic

Response Activity Plan – Evaluation Plan

Phase 1A and Phase 1B of the

Proposed Parkside Village 1 Development

5250 Conner Street, Detroit, Michigan 48213

August 9, 2024



compounds (VOCs), semi-VOCs, pesticides, polychlorinated biphenyls (PCBs), and various metals. Laboratory analytical results for samples that pertain to the subject property reported various metals (arsenic, cobalt, iron, manganese, and molybdenum) in soil above the EGLE Part 201 Residential Generic Cleanup Criteria (GCC).

No Historical RECs (HRECs) or Controlled (CRECs) were identified in connection with the subject property.

3.3 Property Geology/Hydrogeology/Topography

According to the topographic map, the subject property is approximately 602-feet above mean sea level and relatively flat. The general topography trends downwards toward the south. The nearest surface water body is the Detroit River located approximately two and a half miles south of the subject property.

The soil conditions encountered by Triterra generally consist of fine to medium sand to approximately four feet below ground surface (bgs), underlain by silty clay to 20.0 feet bgs, the maximum depth explored. Urban fill material including occasional pieces of brick, wood, coal, and concrete were found in SB-1 through SB-4, SB-6 through SB-9, SB-13, and SB-15, at approximately two to eight feet bgs. Groundwater was not encountered during the subsurface investigation. Refer to Attachment D for copies of Triterra's 2024 boring logs.

4.0 IDENTIFICATION OF COMPLETE OR LIKELY TO BECOME COMPLETE EXPOSURE PATHWAYS

COMPLETE PATHWAY?	PERTINENT PROPERTY CONDITIONS	EXPLANATION, IF NOT COMPLETE
Drinking Water Pathway is not complete	A person cannot drink groundwater because groundwater is not being used on the property for any purpose.	Municipal water supply and no wells present on property.
Direct Contact Pathway is complete	A person can come in contact with contaminated soils on the property (walking, playing, or working on surficial soils with or without vegetation; below surface construction or utility activities).	
Soil Particulate Inhalation Pathway is complete	A person can inhale ambient air particulates from substances present in soils (with or without vegetation) via wind erosion of contaminated soils and vehicle traffic.	
Soil Volatilization to Ambient Air Pathway is complete	A person can inhale ambient air that contains vapors from volatile substances present in soil.	
Volatilization to Indoor Air Pathway is likely to become complete	A person may inhale substances in indoor air from volatile substances present in soil that may volatilize into buildings constructed on the property.	
Groundwater-Surface Water Interface Pathway is	A person cannot come in contact with surface water on the property where groundwater is venting to the surface water with contaminants that would present human	No surface water exists on or adjacent to the subject



Response Activity Plan – Evaluation Plan

Phase 1A and Phase 1B of the

Proposed Parkside Village 1 Development

5250 Conner Street, Detroit, Michigan 48213

August 9, 2024



COMPLETE PATHWAY?	PERTINENT PROPERTY CONDITIONS	EXPLANATION, IF NOT COMPLETE
not complete	exposure concerns	property.

5.0 ASSESSMENT OF APPLICABILITY OF GENERIC CRITERIA

Triterra compared the soil analytical results to the Part 201 Residential GCC dated October 12, 2023.

Residual NAPL is not considered to be present as there is not a release of petroleum associated with the subject property.

The soil analytical results were compared to the EGLE Site-Specific Volatilization to Indoor Air Criteria (SSVIAC) for slab-on-grade buildings dated May 31, 2024 (Attachment F).

6.0 IDENTIFICATION OF THE CATEGORY OF APPLICABLE CLEANUP CRITERIA OR SITE-SPECIFIC VOLATILIZATION TO INDOOR AIR CRITERIA (SSVIAC)

Based on the proposed residential use of the subject property, the Part 201 Residential GCC and SSVIAC are appropriate and were used for comparison.

7.0 CONTAMINANT INFORMATION

On June 2 and 3, 2014, seven surficial soil and thirteen soil boring samples were collected across the 5250 Conner Street parent parcel by the Michigan Department of Environmental Quality (MDEQ, currently referred to as EGLE) for chemical analysis of one or more of the following parameters: VOCs, semi-VOCs, pesticides, PCBs, and various metals. Samples located within the subject property were denoted C-SB-06, C-SB07, and C-SB-08. Laboratory analytical results for the three samples that pertain to the subject property reported various metals (arsenic, cobalt, iron, manganese, and molybdenum) in soil above the EGLE Part 201 Residential and Nonresidential Drinking Water Protection (DWP) and/or Groundwater Surface Water Interface Protection (GSIP) Generic Cleanup Criteria (GCC).

On March 8, 2024, Triterra completed a subsurface investigation on the subject property. Triterra, in conjunction with ERG Environmental Services (ERG), advanced a total of fifteen soil borings (SB-1 through SB-15) utilizing hydraulic-driven direct-push methods (i.e., Geoprobe®) to a maximum boring depth of 20.0 feet bgs. Triterra collected soil samples for visual classification, field screening and for evidence of contamination. Triterra did not observe any significant staining during the subsurface investigation and did not encounter petroleum product/hazardous substance odors. The photoionization detector (PID) screening results of soil samples were below the detection limit of the instrument (one part per million). The soil boring locations are depicted on Figure 3.

Triterra collected and submitted 15 soil samples to Merit Laboratories, Inc. (Merit) for chemical analysis of VOCs, polynuclear aromatic hydrocarbons (PAHs), and the Michigan 10 Metals (arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, and zinc). The laboratory analysis of the soil samples



Response Activity Plan – Evaluation Plan

Phase 1A and Phase 1B of the

Proposed Parkside Village 1 Development

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August 9, 2024



collected by Triterra in March 2024 revealed concentrations of target analytes exceeding the Part 201 Residential GCC and/or Residential Volatilization to Indoor Air Pathway (VIAP) Screening Levels in the soil samples collected from SB-1, SB-4, SB-5, SB-6, SB-8, SB-13, and SB-15.

7.1 Location and Concentrations of Contaminants of Concern

Copies of the June 2014 figures, boring logs, and analytical tables from the MDEQ's Brownfield Redevelopment Assessment Report are included in Appendix C. Triterra's soil boring locations and analytical exceedances are depicted in Figure 3. Copies of Triterra's March 2024 soil boring logs are included in Attachment D, and copies of the 2024 laboratory analytical reports are included in Appendix E.

7.1.1 Soil

The following table summarizes constituents identified in soil at levels exceeding Residential Part 201 GCC and SSVIAC:

Soil Analytical Results Exceeding Part 201 Residential GCC & SSVIAC			
CONSTITUENT/ CAS NUMBER	SAMPLE LOCATION AND DEPTH	MAXIMUM CONCENTRATION	EXCEEDANCE
Naphthalene 91203	SB-1, 2-2.5' SB-4, 7-8' SB-6, 3-4' SB-15, 4-5'	7,990	GSIP and SSVIAC
Benzo(a)anthracene 56553	SB-6, 3-4'	23,000	DC
Benzo(a)pyrene 50328	SB-1, 2-2.5' SB-4, 7-8' SB-6, 3-4' SB-8, 1-2' SB-13, 2-3' SB-15, 4-5'	14,400	DC
Benzo(b)fluoranthene 205992	SB-6, 3-4' SB-15, 4-5'	26,700	DC
Fluoranthene 206440	SB-1, 2-2.5' SB-4, 7-8' SB-6, 3-4' SB-8, 1-2' SB-13, 2-3' SB-15, 4-5'	42,000	GSIP
Fluorene 86737	SB-6, 3-4' SB-15, 4-5'	7,900	GSIP



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Soil Analytical Results Exceeding Part 201 Residential GCC & SSVIAC			
CONSTITUENT/ CAS NUMBER	SAMPLE LOCATION AND DEPTH	MAXIMUM CONCENTRATION	EXCEEDANCE
Phenanthrene 85018	SB-1, 2-2.5' SB-4, 7-8' SB-5, 0-1' SB-6, 3-4' SB-8, 1-2' SB-9, 2-3' SB-13, 2-3'	44,300	GSIP and SSVIAC
Arsenic 7440382	C-SB-06 C-SB-07 C-SB-08 SB-1, 2-2.5' SB-4, 7-8' SB-5, 0-1' SB-6, 3-4' SB-7, 2-3' SB-8, 1-2' SB-9, 2-3' SB-15, 4-5'	11,000	DWP, GSIP, DC
Chromium 7440473	SB-2, 4-5' SB-8, 1-2'	18,300	GSIP
Cobalt 7440484	C-SB-06 C-SB-07 C-SB-08	12,000	DWP and GSIP
Iron 7439896	C-SB-06 C-SB-07 C-SB-08	29,000	DWP
Lead 7439921	SB-4, 7-8'	443,000	DC
Manganese 7439965	C-SB-06 C-SB-07 C-SB-08	1,900	DWP and GSIP
Mercury 7439976	SB-7, 2-3' SB-13, 2-3'	312	GSIP and SSVIAC
Molybdenum 7439987	C-SB-06 C-SB-08	2.2	DWP



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5250 Conner Street, Detroit, Michigan 48213

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Soil Analytical Results Exceeding Part 201 Residential GCC & SSVIAC			
CONSTITUENT/ CAS NUMBER	SAMPLE LOCATION AND DEPTH	MAXIMUM CONCENTRATION	EXCEEDANCE
Selenium 7782492	SB-8, 1-2' SB-10, 2.5-3.5'	520	GSIP
Zinc 7440666	SB-8, 1-2'	185,000	GSIP

Notes: DWP = Drinking Water Protection Criteria
DC = Direct Contact Criteria.

GSIP = Groundwater Surface Water Interface Protection Criteria
SSVIAC = EGLE Site-Specific Volatilization to Indoor Air Criteria

Concentrations reported in ppb (parts per billion or µg/kg).
µg/kg = micrograms per kilogram

8.0 EVALUATION PLAN FOR VIAP AND ELECTRICAL PANEL

8.1 Evaluation Plan for Volatilization to Indoor Air Pathway

For the proposed residential end use of the subject property, volatilization to indoor air is a complete pathway. Urban fill material is likely present across the subject property associated with the demolition of the numerous residential apartment buildings formerly present that represents a potential dispersed vapor source. The submitter is proposing additional evaluation in accordance with EGLE's October 2023 VIAP - Evaluation of a Dispersed Vapor Source in Urban Fill Under Part 201 guidance. It should be noted that no hazardous substances that may be an acute vapor hazard were identified on the subject property.

The submitter is proposing to install one soil gas well per quarter acre for up to 22 total soil gas wells over the 5.28-acre subject property. The soil gas wells will be biased toward and installed within urban fill material at a minimum depth of 4.0-feet bgs, although a target depth of 5.0-feet bgs will be used. The soil gas samples will be submitted for laboratory analysis of VOCs, PAHs, and mercury.

If the sample results are all below the Unrestricted Residential SSVIAC, it will be concluded that the contamination present within the urban fill is dispersed and does not pose a risk or unacceptable exposure for the VIAP and no further sampling or evaluation of the VIAP will be necessary.

If one or more of the hazardous substances listed in Table 2 of the above-referenced guidance document is detected in the soil gas sample, then at least two sampling events three months apart will be conducted. If the sample results are all below the applicable Unrestricted Residential SSVIAC for soil gas for the sample events, it will be determined that the contamination does not pose a risk or unacceptable exposure for the VIAP and no further sampling or evaluation of the VIAP is necessary.



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8.2 Evaluation Plan for Electrical Panel

There is potential pad-mounted PCB-containing electrical equipment present on the western portion of the property. The age and condition of the equipment is unknown, and there is a potential for dielectric fluid to have been released and impacted the subsurface.

In order to determine if contamination is present stemming from the electrical equipment, the submitter is proposing to complete eight soil boring around the perimeter of the equipment pad to a target depth of 5.0-feet bgs utilizing a direct-push drill rig (Geoprobe[®]) or a stainless-steel hand auger. Continuous soil samples will be collected for visual classification and field screening and for evidence of contamination (i.e., staining, petroleum odors, and PID unit detections).

It appears that the electrical equipment pad is approximately 15 feet by 50 feet. The proposed borings would be spaced with one boring located along each approximate 15-foot side and three borings along each approximate 50-foot side. Soil samples will be collected from intervals exhibiting field evidence of contamination or, if there is a lack of field evidence of contamination, from a near-surface interval. One soil sample will be collected from each boring; however, if there is field evidence of contamination additional samples may be collected for delineation purposes. Soil samples will be analyzed by an environmental laboratory for VOCs, PAHs, PCBs, and the 10 MI Metals.

9.0 SIGNATURE

This ResAP was authored by Jade Gillette on behalf of Triterra. Professional qualifications are presented in Attachment G.

A handwritten signature in blue ink that reads "Jade Gillette".

Mr. Jade Gillette., EP
Associate Scientist
Director of Technical Services

Response Activity Plan – Evaluation Plan

Phase 1A and Phase 1B of the

Proposed Parkside Village 1 Development

5250 Conner Street, Detroit, Michigan 48213

August 9, 2024



10.0 REFERENCES

The following documents can be referred to for additional information pertaining to the subject property.

Brownfield Redevelopment Assessment Report for 5250 Conner Detroit; MDEQ - Remediation and Redevelopment Division, September 17, 2014.

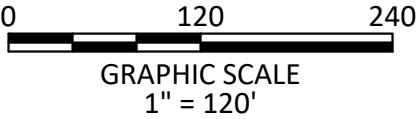
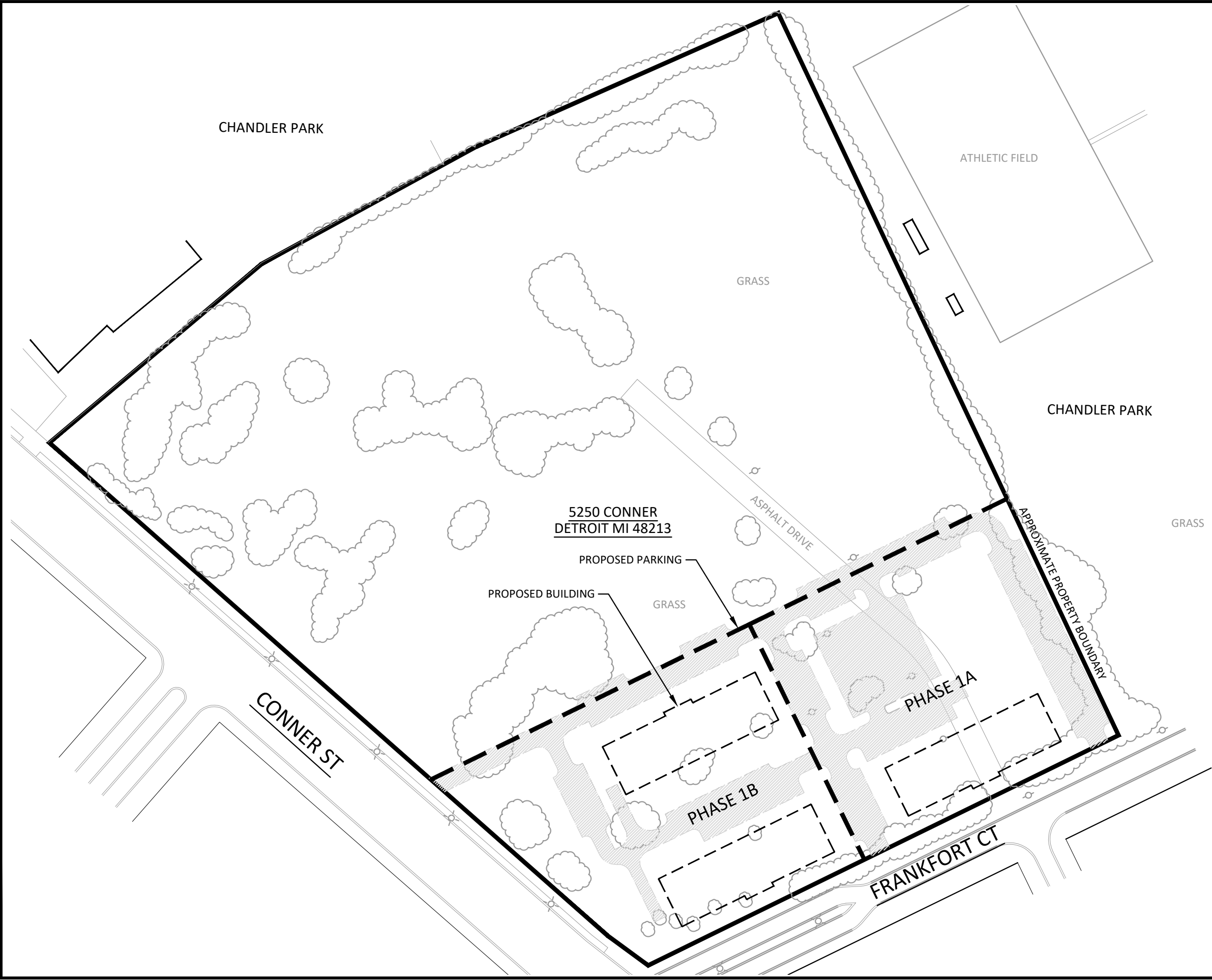
Incremental Sampling Methodology and Applications; EGLE (Formerly MDEQ), January 2018.

Volatilization to Indoor Air Pathway (VIAP) Evaluation of a Dispersed Vapor Source in Urban Fill Under Part 201; EGLE, October 2023.

Site-Specific Volatilization to Indoor Air Criteria (SSVIAC), EGLE, May 31, 2024.

Phase I ESA, Triterra, May 2, 2024.

FIGURES



TRIOTERRA

1375 S. Washington Avenue, Suite 100, Lansing, MI 48910
Phone: 517-702-0470 Fax: 517-702-0477
www.triterra.us

Diagram is for illustrative purposes only. Exact locations of items shown on figure may vary slightly.

DATE: 3/23/2024

DRAWN BY: JWL

DATE: 5/14/2024

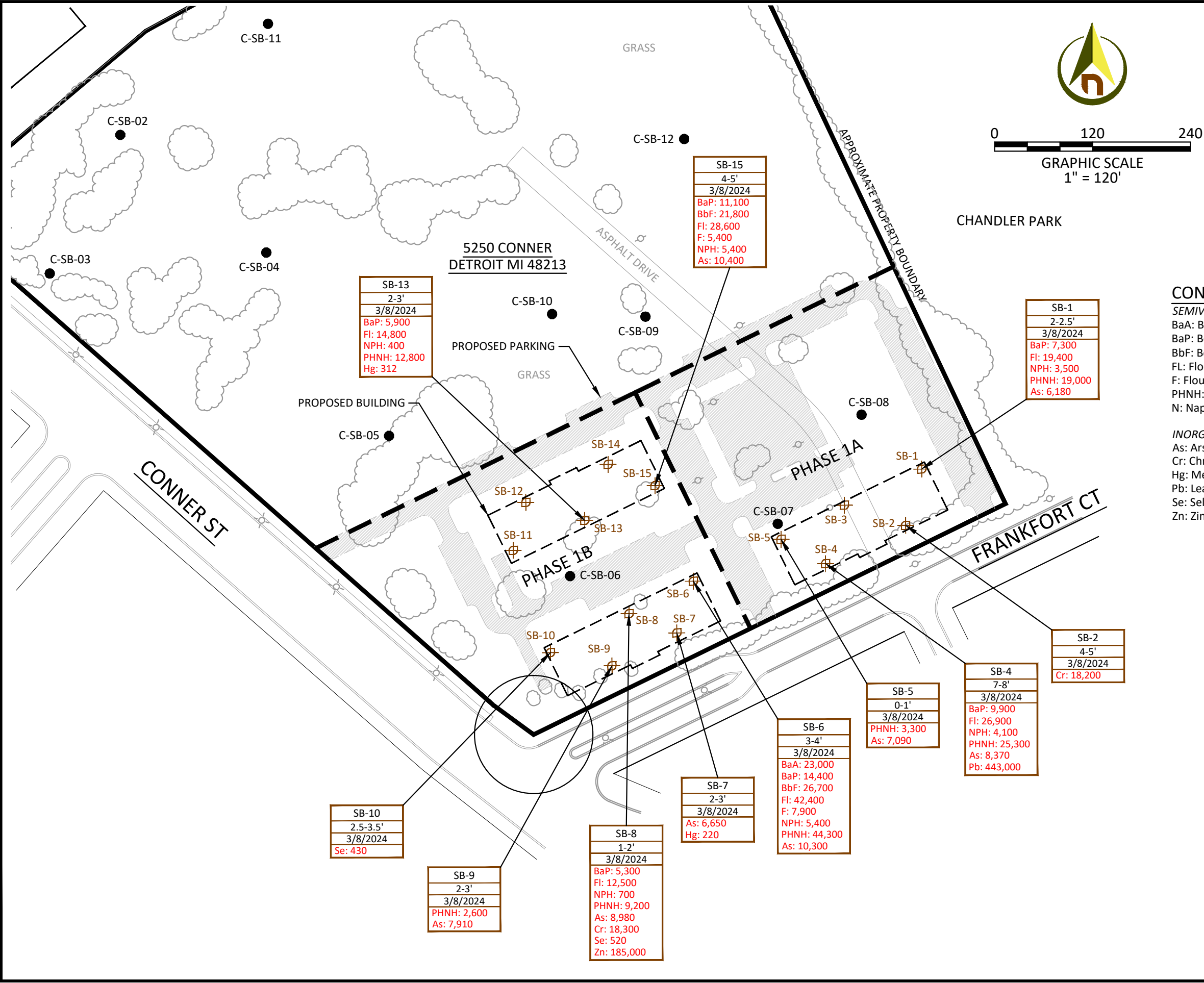
REVISED BY: JWL

PROPERTY ORIENTATION DIAGRAM

5250 CONNER
DETROIT, MICHIGAN 48213

PROJECT NUMBER: 23-3626

FIGURE 2



- NOTES
1. Soil concentrations are in µg per kg (ppb).
 2. All exceedances are highlighted in red.
 3. Figure includes analytical exceedances only. If no data is presented for a sample location then there were no exceedances above applicable criteria.
 4. See analytical data and tables for additional detail.

- SYMBOLS LEGEND
- UTILITY POLE
 - LIGHT POLE
 - C-SB-06 ● 2014 EGLE BORING LOCATION
 - SB-4 2024 SOIL BORING LOCATION

- CONSTITUENTS LEGEND
- SEMIVOLATILES (PAHs)
- BaA: Benzo(a)anthracene
 - BaP: Benzo(a)pyrene
 - BbF: Benzo(b)flouranthene
 - FL: Flouranthene
 - F: Flourine
 - PHNH: Phenanthrene
 - N: Naphthalene
- INORGANICS, METALS
- As: Arsenic
 - Cr: Chromium
 - Hg: Mercury, Total
 - Pb: Lead, Total
 - Se: Selenium
 - Zn: Zinc

 1375 S. Washington Avenue, Suite 100, Lansing, MI 48910 Phone: 517-702-0470 Fax: 517-702-0477 www.triterra.us	Diagram is for illustrative purposes only. Exact locations of items shown on figure may vary slightly.	
	DATE: 3/23/2024 DRAWN BY: JWL	DATE: 5/14/2024 REVISED BY: JWL
SOIL SAMPLING LOCATIONS WITH ANALYTICAL EXCEEDANCES 5250 CONNER DETROIT, MICHIGAN 48213	PROJECT NUMBER: 23-3626	FIGURE 3

TABLES



TABLE 1
SUMMARY OF 2024 SOIL ANALYTICAL RESULTS
5250 Conner Street
Detroit, Michigan 48213
Triterra Project No. 23-3626

Analyzed Constituents (Refer to laboratory report for method reference data)	Chemical Abstract Service Number	Statewide Default Background Levels	EGLE Part 201 Residential Generic Cleanup Criteria (GCC) and Site-Specific Volatilization to Indoor Air Criteria (SSVIAC)							Sample ID and Collection Date														
			Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Infinite Source Volatile Soil Inhalation Criteria (VSIIC)	Particulate Soil Inhalation Criteria	Direct Contact Criteria	Unrestricted SSVIAC (Slab-on-Grade)	SB-1 2-2.5' 3/8/2024	SB-2 4-5' 3/8/2024	SB-3 1-2' 3/8/2024	SB-4 7-8' 3/8/2024	SB-5 0-1' 3/8/2024	SB-6 3-4' 3/8/2024	SB-7 2-3' 3/8/2024	SB-8 1-2' 3/8/2024	SB-9 2-3' 3/8/2024	SB-10 2.5-3.5' 3/8/2024	SB-11 3-4' 3/8/2024	SB-12 1-2' 3/8/2024	SB-13 2-3' 3/8/2024	SB-14 1-2' 3/8/2024	SB-15 4-5' 3/8/2024
Volatiles, VOCs ug/Kg																								
Naphthalene	91203	NA	35,000	730	250,000	300,000	200,000,000	16,000,000	67 (M)	900	<RL	<RL	1,900	<RL	1,100	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	600
2-Methylnaphthalene	91576	NA	57,000	4,200	2,700,000	1,500,000	670,000,000	8,100,000	1,700	300	<RL	<RL	700	<RL	500	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	200
Various other VOCs	Varies	NA	Vw/C	Vw/C	Vw/C	Vw/C	Vw/C	Vw/C	Vw/C	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL
Semivolatiles, PAHs ug/Kg																								
Acenaphthene	83329	NA	300,000	8,700	190,000,000	81,000,000	14,000,000,000	41,000,000	200,000	3,000	<RL	<RL	3,500	400	5,200	<RL	900	<RL	<RL	<RL	<RL	1,000	<RL	4,200
Anthracene	120127	NA	41,000	ID	1,000,000,000	1,400,000,000	67,000,000,000	230,000,000	13,000,000	5,800	<RL	<RL	7,700	800	14,400	<RL	2,400	700	<RL	<RL	<RL	2,500	<RL	8,500
Benzo(a)anthracene	56553	NA	NLL	NLL	NLV	NLV	ID	20,000	160,000	8,300	700	<RL	11,900	1,800	23,000	600	5,800	1,500	<RL	<RL	<RL	6,000	<RL	13,100
Benzo(a)pyrene	50328	NA	NLL	NLL	NLV	NLV	1,500,000	2,000	NA	7,300	600	<RL	9,900	1,600	14,400	500	5,300	1,300	<RL	<RL	<RL	5,900	<RL	11,100
Benzo(b)fluoranthene	205992	NA	NLL	NLL	ID	ID	ID	20,000	NA	13,100	1,000	<RL	18,700	3,100	26,700	1,000	10,400	2,500	<RL	<RL	<RL	10,400	<RL	21,800
Benzo(k)fluoranthene	207089	NA	NLL	NLL	NLV	NLV	ID	200,000	NA	14,700	1,200	<RL	21,000	3,500	29,900	1,100	11,700	2,800	<RL	<RL	<RL	11,600	<RL	24,500
Benzo(ghi)perylene	191242	NA	NLL	NLL	NLV	NLV	800,000,000	2,500,000	NA	2,800	<RL	<RL	3,800	700	6,800	<RL	2,300	500	<RL	<RL	<RL	2,600	<RL	4,500
Chrysene	218019	NA	NLL	NLL	ID	ID	ID	2,000,000	NA	7,600	700	<RL	11,000	1,800	21,500	600	5,500	1,400	<RL	<RL	<RL	5,700	<RL	12,500
Dibenzo(ah)anthracene	53703	NA	NLL	NLL	NLV	NLV	ID	2,000	NA	500	<RL	<RL	700	<RL	1,300	<RL	400	<RL	<RL	<RL	<RL	400	<RL	900
Fluoranthene	206440	NA	730,000	5,500	1,000,000,000	740,000,000	9,300,000,000	46,000,000	NA	19,400	1,400	<RL	26,900	4,300	42,400	1,000	12,500	3,600	<RL	<RL	<RL	14,800	<RL	28,600
Fluorene	86737	NA	390,000	5,300	580,000,000	130,000,000	9,300,000,000	27,000,000	470,000	3,500	<RL	<RL	4,400	400	7,900	<RL	1,100	300	<RL	<RL	<RL	1,300	<RL	5,400
Indeno(1,2,3-cd)pyrene	193395	NA	NLL	NLL	NLV	NLV	ID	20,000	NA	2,900	<RL	<RL	3,900	700	6,600	<RL	2,200	600	<RL	<RL	<RL	2,400	<RL	4,600
Naphthalene	91203	NA	35,000	730	250,000	300,000	200,000,000	16,000,000	67 (M)	3,500	<RL	<RL	4,100	<RL	5,400	<RL	700	<RL	<RL	<RL	<RL	400	<RL	5,400
Phenanthrene	85018	NA	56,000	2,100	2,800,000	160,000	6,700,000	1,600,000	1,700	19,000	900	<RL	25,300	3,300	44,300	300	9,200	2,600	<RL	<RL	<RL	12,800	<RL	28,000
Pyrene	129000	NA	480,000	ID	1,000,000,000	650,000,000	6,700,000,000	29,000,000	25,000,000	15,100	1,100	<RL	22,100	3,300	53,800	800	11,000	2,700	<RL	<RL	<RL	12,200	<RL	26,400
2-Methylnaphthalene	91576	NA	57,000	4,200	2,700,000	1,500,000	670,000,000	8,100,000	1,700	900	<RL	<RL	1,300	<RL	1,900	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	1,600
1-Methylnaphthalene	90120	NA	NA	NA	NA	NA	NA	NA	NA	600	<RL	<RL	1,000	<RL	1,300	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	1,000
Various other PAHs	Varies	NA	Vw/C	Vw/C	Vw/C	Vw/C	Vw/C	Vw/C	Vw/C	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL
Inorganics, Metals ug/Kg																								
Arsenic	7440382	5,800	4,600	4,600	NLV	NLV	720,000	7,600	NA	6,180	5,180	4,600	8,370	7,090	10,300	6,650	8,980	7,910	5,180	4,410	3,720	4,840	1,770	10,400
Barium*	7440393	75,000	1,300,000	440,000	NLV	NLV	330,000,000	37,000,000	NA	64,500	100,000	12,100	53,300	54,600	128,000	117,000	93,200	75,600	75,000	46,900	25,700	85,400	5,650	97,800
Cadmium*	7440439	1,200	6,000	3,600	NLV	NLV	1,700,000	550,000	NA	240	290	<RL	310	280	780	310	1,410	220	510	<RL	250	260	<RL	470
Chromium (H)	7440473	18,000	30,000	3,300	NLV	NLV	260,000	2,500,000	NA	13,100	18,200	4,910	10,500	13,100	9,180	12,400	18,300	13,600	6,590	7,830	3,700	9,280	3,720	12,100
Copper*	7440508	32,000	5,800,000	75,000	NLV	NLV	130,000,000	20,000,000	NA	18,000	16,000	6,820	29,000	16,600	36,800	18,000	36,400	13,800	15,000	5,580	5,270	26,800	1,960	33,900
Lead*	7439921	21,000	700,000	2,500,000	NLV	NLV	100,000,000	400,000	NA	15,900	12,600	4,360	443,000	29,600	109,000	177,000	178,000	16,600	40,300	7,860	6,900	103,000	2,160	74,300
Mercury (B)	7439976	130	1,700	130	48,000	52,000	20,000,000	160,000	22 (M)	<RL	<RL	<RL	<RL	58	<RL	220	87	50	<RL	<RL	<RL	312	<RL	<RL
Selenium (B)	7782492	410	4,000	410	NLV	NLV	130,000,000	2,600,000	NA	<RL	<RL	<RL	<RL	<RL	<RL	<RL	520	<RL	<RL	<RL	<RL	<RL	<RL	<RL
Silver (B)	7440224	1,000	4,500	1,000	NLV	NLV	6,700,000	2,500,000	NA	<RL	<RL	<RL	<RL	<RL	<RL	<RL	510	<RL	<RL	<RL	<RL	<RL	<RL	<RL
Zinc*	7440666	47,000	2,400,000	170,000	NLV	NLV	ID	170,000,000	NA	<RL	59,300	20,100	71,500	58,600	106,800	11,000	185,000	46,500	77,400	21,800	12,900	70,000	6,410	101,000

NOTES:
1. Analytical results compared to EGLE (formerly MDEQ) criteria presented in Administrative Rules for Part 201, Environmental Remediation, of the Natural Resources and Environmental Protection Act, 1994 PA 451, effective 12/30/2013.
2. Concentrations reported in ppb (parts per billion or ug/kg).
3. Detected results shown in **BOLD**. Exceedances are highlighted.
4. * = GSI Protection was calculated for the indicated metals using the EGLE spreadsheet for calculating GSI. A default water hardness value of 150 mg/kg as CaCO3 was used to calculate GSI. Results are presented for surface water receiving bodies that are protected as a drinking water source.
5. <RL = Result was less than the laboratory reporting limits, -- = Constituent was not analyzed, NA = Not applicable, NLL = Not likely to leach under most soil conditions, NLV = Not likely to volatilize under most conditions, ID = Insufficient data to develop criterion, Vw/C = Varies with col



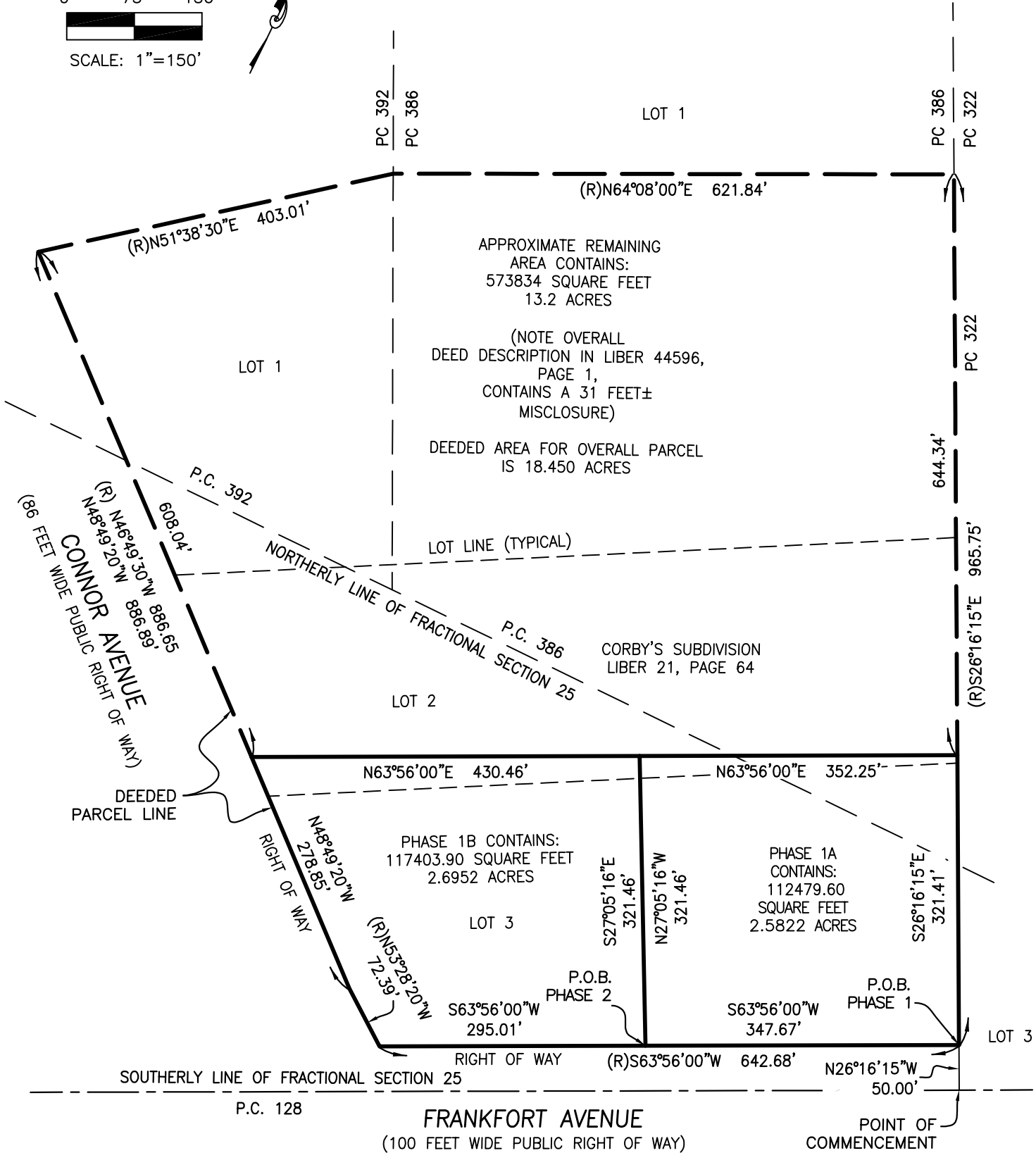
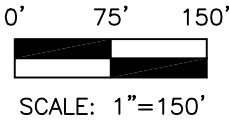
ATTACHMENT A:

LEGAL DESCRIPTION AND SURVEY OF SUBJECT PROPERTY

DESCRIPTION DIAGRAM

LOT 2, AND PART OF LOTS 1 AND 3, COLBY;S
SUBDIVSION, A PART OF FRACTIONAL SECTION
25, T. 01S, R. 12E, AND PRIVATE CLAIMS 386
AND 392, WAYNE COUNTY, CITY OF DETROIT,
MICHIGAN.
PARCEL TAX NO. 210462202-11

REGISTER OF DEEDS RECORDING AREA



ABBREVIATIONS

- P.O.C. = POINT OF COMMENCEMENT
- P.O.B. = POINT OF BEGINNING
- T. = TOWNSHIP
- R. = RANGE
- SEC. = SECTION
- R.O.W. = RIGHT OF WAY
- OHUL = OVERHEAD UTILITY LINE
- N = NORTH
- S = SOUTH
- E = EAST
- W = WEST
- M = MEASURED
- R = RECORDED (DEED)
- PID = PARCEL IDENTIFICATION NUMBER

LEGEND

- = DESCRIPTION LINE
- = REMAINING OVERALL PARCEL
- = ADJOINING PARCEL LINE

NOTE

THE DEED RECORDED IN LIBER 44596,
PAGE 1, WAYNE COUNTY RECORDS,
CONTAINS A 31.0 FEET± MISCLOSURE

NOT ALL IMPROVEMENTS OR EASEMENTS
ARE SHOWN.

FOR: GINOSKO DEVELOPMENT CO.

FIELD BY:	DATE: 30NOV2023 R2
DRAWN BY: GB	PROJECT: S149-2023
REVIEWED BY:	SHEET 1 OF 2

GEODETIC DESIGNS INC.
2300 NORTH GRAND RIVER AVE
LANSING, MI 48906
PH: 517-908-0008
WWW.GEODETICDESIGNS.COM



DESCRIPTION DIAGRAM

LOT 2, AND PART OF LOTS 1 AND 3, COLBY;S
SUBDIVISION, A PART OF FRACTIONAL SECTION
25, T. 01S, R. 12E, AND PRIVATE CLAIMS 386
AND 392, WAYNE COUNTY, CITY OF DETROIT,
MICHIGAN.
PARCEL TAX NO. 210462202-11

REGISTER OF DEEDS RECORDING AREA

PHASE 1A DESCRIPTION

A part of Lots 2 and 3, Colby’s Subdivision as recorded in Liber 21, Page 64, Wayne County Records, being part of Fractional Section 25, Town 1 South, Range 12 East, also part of Private Claims 386 and 392, County of Wayne, City of Detroit, and described as follows:

Commencing at the intersection of the Southerly line of Fractional Section 25 at the extended easterly line of Private Claim 386;

Thence North 26 degrees 16 minutes 15 seconds West, 50.00 feet, along the extended easterly line of Private Claim 386 to the southerly line of Frankfort Avenue (100 feet wide public right of way) and the POINT OF BEGINNING;

Thence along said southerly line, South 63 Degrees 56 Minutes 00 Seconds West, 347.67 feet;

Thence North 27 Degrees 05 Minutes 16 Seconds West, 321.46 feet;

Thence North 63 Degrees 56 Minutes 00 Seconds East, 352.25 feet, to the easterly line of Private Claim 386;

Thence along said easterly line and extension thereof, South 26 Degrees 16 Minutes 15 Seconds East, 321.41 feet, to the POINT OF BEGINNING.

Phase 1A contains 112479.60 Square Feet (2.5822 Acres), more or less.

PHASE 1B DESCRIPTION

A part of Lots 2 and 3, Colby’s Subdivision as recorded in Liber 21, Page 64, Wayne County Records, being part of Fractional Section 25, Town 1 South, Range 12 East, also part of Private Claims 386 and 392, County of Wayne, City of Detroit, and described as follows:

Commencing at the intersection of the Southerly line of Fractional Section 25 at the extended easterly line of Private Claim 386;

Thence North 26 degrees 16 minutes 15 seconds West, 50.00 feet, along the extended easterly line of Private Claim 386 to the southerly line of Frankfort Avenue (100 feet wide public right of way);

Thence along said southerly line, South 63 Degrees 56 Minutes 00 Seconds West, 347.67 feet to the POINT OF BEGINNING;

Thence continuing South 63 Degrees 56 Minutes 00 Seconds West, 295.01 feet to the easterly line of Connor Avenue;

Thence along said easterly line of said Connor Avenue the following 2 (two) courses:

- 1) North 53 Degrees 28 Minutes 20 Seconds West, 72.39 feet;
- 2) North 48 Degrees 49 Minutes 20 Seconds West (recorded as North 46 Degrees 48 Minutes 30 Seconds West), 278.85 feet;

Thence North 63 Degrees 56 Minutes 00 Seconds East, 430.46 feet;

Thence South 27 Degrees 05 Minutes 16 Seconds East, 321.41 feet, to the POINT OF BEGINNING.

Phase 1B contains 117403.90 Square Feet (2.6952 Acres), more or less.



Gilbert M Barish
GILBERT M. BARISH, P.S. #4001047942

FOR: GINOSKO DEVELOPMENT CO.

FIELD BY:	DATE: 30NOV2023 R2
DRAWN BY: GB	PROJECT: S149-2023
REVIEWED BY:	SHEET 2 OF 2

GEODETIC DESIGNS INC.
2300 NORTH GRAND RIVER AVE
LANSING, MI 48906
PH: 517-908-0008
WWW.GEODETICDESIGNS.COM

ATTACHMENT B:
PHASE I ESA REPORT



PHASE I ENVIRONMENTAL SITE ASSESSMENT

Villages at Parkside
Detroit, Michigan 48213

Project No. 23-3626

May 2, 2024

PREPARED FOR:

GDC-DHC Parkside II Limited
Housing Association, LLC
41800 W. 11 Mile Road, Suite
209 Novi, Michigan 48375

PREPARED BY:

TRI TERRA



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Figure 2: Subject Property Orientation Diagram

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Attachment 2: Parcel Information – Current
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1.0 EXECUTIVE SUMMARY

Triterra conducted a Phase I Environmental Site Assessment (ESA) on behalf of GDC-DHC Parkside II Limited Housing Association, LLC for the parcels of land located at 5250 Conner Street, 12700 Harper Street, and 12001 & 12019 E. Warren Avenue in the City of Detroit, Wayne County, Michigan (the subject property). The Phase I ESA was completed to evaluate for recognized environmental conditions (RECs) in connection with the subject property.

The Phase I ESA was conducted in conformance with the requirements of American Society for Testing and Materials Designation: E 1527-21 Phase I Environmental Site Assessment Process (ASTM E 1527-21). The Phase I ESA included review of standard federal, state, and tribal environmental records; review of standard historical records; property reconnaissance; interviews to investigate past and current land uses at the subject property; and vapor encroachment condition (VEC) screening.

Based on Triterra's review of historical information, the northern portion of the subject property is undeveloped as early as 1929; the southern portion of the subject property is occupied by multiple residential dwellings at this time. Parkside Apartments are constructed on the northern and southern portions of the subject property in 1940. A building consisting of a heating plant and repair shop was present on the southern portion of the subject property as well as an administration building. The heating plant and administration building are razed between 1987 and 1999. Between 1999 and 2005, the apartments on the northern portion of the subject property are razed. Currently, the northern portion of the subject property is vacant and the southern portion of the subject property is occupied by Villages at Parkside.

The Phase I ESA has revealed the following RECs in connection with the subject property:

- **The documented presence of soil contamination on the subject property (Sections 4.2, 4.3.4, and 5.1).** The most recent subsurface investigation, conducted in March 2023 at the subject property parcel addressed as 5250 Conner Street, identified the presence of naphthalene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, fluoranthene, fluorene, phenanthrene, arsenic, total chromium, lead, mercury, selenium, and zinc in soil above the current Part 201 Residential GCC. The subject property meets the definition of a "facility", as defined by Section 20101 of PA 451, Part 201, as amended. Additionally, evidence of urban fill including brick, coal, and concrete was discovered on the northern portion of the subject property, likely in association with the former residential buildings. Concentrations of several constituents also exceed EGLE's Volatilization to Indoor Air Pathway (VIAP) Screening Levels, which also represents a VEC.
- **The potential for contamination on the subject property from historical operations (Section 5.1).** A Sanborn map dated 1941 depicts a structure on the southern portion of the subject property labelled as a "heating plant" and "repair/maintenance shop." The buildings remained until they were razed between 1987 and 1999. It is unknown to Triterra what the operations entailed at the time. Additionally, it is unknown what type of repair/maintenance took place on the subject property. Potential exists for the use and storage of hazardous substances and/or petroleum products to have been released to the environment.

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- **The potential for migration of contamination onto the subject property from nearby sites of concern (Sections 4.2 and 5.2).**
 - Several southern adjoining properties, including 12519 E. Warren Avenue, 12511 E. Warren Avenue, 12450 E. Warren Avenue, 12712 E. Warren Avenue, 12540 E. Warren Avenue, 12712 E. Warren Avenue, 12500 E. Warren Avenue, 12620 E. Warren Avenue, 12730 E. Warren Avenue, 12734 E. Warren Avenue, 12200 E. Warren Avenue) are associated with historical dry cleaning operations and historical filling station operations. Dry cleaning operations are associated with the use of chlorinated solvents (typically tetrachloroethylene, also known as “perc” or PCE) that have the ability to impact the subsurface if a leak or release occurs. Additionally, gasoline service station operations are associated with the usage and/or storage of various hazardous petroleum products. Additionally, multiple of the sites are within critical distance of the subject property to create a potential VEC and could pose a concern for vapor intrusion into the subject property buildings.
 - The southwest adjoining site, 11919 E. Warren Avenue, operated as a gasoline service station as early as 1940 until approximately 1975. Gasoline service stations are associated with the usage and storage of various hazardous petroleum products.
 - The western adjoining site, 5417 Conner Street, historically operated as a metal plating operation. It is unknown what years the site operated; however, metal plating is associated with various heavy metals that have the ability to impact the subsurface.
 - The northwest adjoining site, 5581 Conner Avenue, operated as a gasoline service station approximately in the 1960s. Gasoline service stations are associated with the usage and/or storage of various hazardous petroleum products.
 - According to Sanborn maps dated in 1941, a gasoline station was depicted formerly adjoining the subject property to the south at 12740 E. Warren Avenue. This site was not included in the EDR sites of concern. Gasoline stations are associated with the usage and/or storage of various hazardous petroleum products that have the ability to impact the subsurface if a release/leak occurs.

If contamination is present from sources outside of the subject property, this condition could be defended through an exemption under Part 201 of Public Act 451, as amended. The contaminant migration exemption states that a person is not liable for contamination at a property under Part 201 if “the owner or operator of property unto which contamination has migrated unless that person is responsible for an activity causing the release that is the source of the contamination.” MCL 324.20126(4)(c).

Triterra identified the following data failure associated with historical subject property use: the first developed uses of the subject property prior to 1929 could not be determined. Based on the historical uses of the subject property, it is Triterra’s opinion that the data failure is not a significant data gap. The following limitation was encountered during Triterra’s subject property walkover: Triterra was unable to access the individual apartment suites during the visit. Based on the residential uses of the units, it is Triterra’s opinion the limitation did not impair the ability to identify RECs in connection with the subject property.

It is the Environmental Professional’s opinion that a subsurface investigation, consisting of soil, groundwater, and/or soil gas sampling, is recommended to determine if additional contamination is present on the subject property.



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2.0 INTRODUCTION

Triterra conducted a Phase I ESA on behalf of GDC-DHC Parkside II Limited Housing Association, LLC for the parcel of land located at 5250 Conner Street, 12700 Harper Street, and 12001 & 12019 E. Warren Avenue in the City of Detroit, Wayne County, Michigan (the subject property). The Phase I ESA was completed to identify recognized environmental conditions (RECs) in connection with the subject property.

Satisfying the Environmental Protection Agency's (EPA) All Appropriate Inquiry (AAI) is one component of the requirements for a Prospective Purchaser to qualify for the Bona Fide Prospective Purchaser (BFPP), Contiguous Property Owner, or Innocent Landowner defense to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) liability. For properties known to be contaminated with hazardous substances or petroleum products, the BFPP also must comply with the continuing obligations defined in CERCLA to maintain the landowner liability protection (LLP) to CERCLA.

2.1 Purpose

The Phase I ESA is performed in general conformance with the scope and limitations of the American Society for Testing and Materials Designation: E 1527-21 (ASTM E 1527-21). The ASTM standard permits a Phase I ESA User to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations as defined by the CERCLA. The overall purpose of the Phase I ESA practice is to conduct a subject property environmental site assessment regarding a range of contamination that may affect subject property soil, soil gas, and groundwater quality. ASTM defines RECs as:

...(1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment.

Special cases of RECs include Historical and Controlled RECs. Historical RECs (HRECs) are defined as:

...a previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the subject property to any controls (for example, activity and use limitations or other property use limitations).

Controlled RECs (CRECs) are defined as:

...recognized environmental condition affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations).

In addition to RECs, *de minimis* conditions are also evaluated. ASTM E 1527-21 defines *de minimis* as conditions that a condition related to a release that generally does not present a threat to human health or

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the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

2.2 Scope of Services

In accordance with ASTM E 1527-21, the Phase I ESA performed by Triterra consists of the main components listed below. Each component contributes to the identification of RECs in connection with the subject property. "Commonly known or reasonably ascertainable information" about the subject property and a "degree of obviousness of the presence or likely presence of contamination" at the subject property are considered part of the Phase I ESA.

- Records Review
- Subject Property Reconnaissance
- Interviews
- Vapor Encroachment Screen
- Evaluation and Preparation of Phase I ESA Report

Records review includes a review of federal, state, tribal, and local government records and historical sources. The gathered information helps identify previous uses of the subject property and the surrounding area. Knowledge of the historical uses may determine if a current subject property REC is a result of the historical subject property/surrounding area operations. The records review is summarized in Section 4.0.

Subject property reconnaissance includes a visual and physical inspection of the subject property and visual observation of adjoining properties. This does not include sampling or testing of any material unless specified by an agreement between Triterra and the User before sample collection. The site reconnaissance is summarized in Section 6.0.

Interviews are conducted with subject property owners and/or occupants. Select state and/or local agency officials are also interviewed. The interviews provide otherwise unavailable information about the subject property. Information obtained during interviews is included in Sections 3.0 through 5.0 and 8.0.

A vapor encroachment screen (VES) is a Tier I component of the ASTM E 2600-22 Standard Guide that identifies if a vapor encroachment condition (VEC) exists at the subject property. A VEC is the potential presence of chemical of concern vapors in the subject property subsurface caused by a release of contaminated soil or groundwater vapor on or near the subject property. Triterra evaluates surrounding properties using The Plume Test and Critical Distance Determination Buonicore Methodology. Potential VECs are identified throughout the Phase I ESA report.

An evaluation of all gathered subject property information is presented within the Phase I ESA Report. Appropriate documentation supports the findings, opinions, and conclusions. The Phase I ESA report includes matters required pursuant to various provisions of ASTM E 1527-21.

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2.3 Special Terms, Conditions, and Significant Assumptions

Pursuant to the ASTM E 1527-21, Triterra assumes that the information provided by all sources and parties including the User is accurate and complete except where obvious inconsistencies or inaccuracies are identified. The possible contaminants of concern considered in this assessment include those listed under CERCLA as well as petroleum products, and PFAS constituents as regulated by Michigan Department of Environment, Great Lakes, and Energy (EGLE) Part 201 Residential Generic Cleanup Criteria (GCC). There were no special terms, conditions, or significant assumptions associated with the Phase I ESA.

2.4 Limitations and Exceptions

Triterra completed this Phase I ESA in general conformance with the ASTM E 1527-21 standard practice and made appropriate inquiry consistent with good commercial or customary practice. The results of the Phase I ESA are based on professional interpretation of the practically reviewable and reasonably ascertainable information available to Triterra given the time and budget constraints of the project. Triterra has assumed that information provided by the cited references is factual, complete, and correct. Triterra does not warrant that this report represents an exhaustive study of all possible environmental concerns at the subject property. However, the items investigated as part of this study represent likely potential sources of RECs and consequently may identify potential impact to soil, groundwater, and soil gas at the subject property.

2.5 Contractual Agreement

This Phase I ESA was performed in accordance with the February 12, 2024 contract by and between Ginosko Development Company and Triterra.

2.6 User Reliance

This Phase I ESA report was prepared exclusively for GDC-DHC Parkside II Limited Housing Association, LLC (referred to as the User) for the purposes stated in this report. The report may be unsuitable for other uses, and reliance on its contents by a party other than the User is done at the sole risk of that party.

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3.0 SUBJECT PROPERTY DESCRIPTION

The following subsections contain subject property descriptions, uses, and conditions. Adjoining site operations during the time of the Phase I ESA were also researched. Photographs of the subject property and surrounding areas are included in Attachment 1.

3.1 Subject Property Location and Legal Description

The subject property is located 5250 Conner Street, 12700 Harper Street, and 12001 & 12019 E. Warren Avenue in the City of Detroit, Wayne County, Michigan. Triterra obtained subject property assessing and building information from BS&A on March 8, 2024. Current subject property parcel information are included in the table below.

Address	Parcel Number	Acreage	Use
5250 Conner Street	21046202-11	13.02	Vacant
Portion of 12700 Harper Street	21004019-53	7.75	Vacant
12001 E. Warren Avenue	21002687.	16.85	Residential
12019 E. Warren Avenue	21002688.	12.38	Residential

3.2 Subject Property Use and General Characteristics

The subject property consists of approximately 50-acres developed with 19 buildings utilized for residential or office purposes. The buildings are described in the table below.

Square Footage	Use	Year Built
5,208	Multiple Residences	2000
4,096	Multiple Residences	2000
1,216	Multiple Residences	2000
1,632	Multiple Residences	2000
8,856	Multiple Residences	1938



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11,178	Multiple Residences	1938
7,074	Multiple Residences	1938
3,132	Multiple Residences	1938
5,400	Multiple Residences	1938
6, 318	Multiple Residences	1938
5,400	Multiple Residences	1938
11,978	Multiple Residences	1938
2,666	Multiple Residences	2000
1,783	Multiple Residences	2000
2,077	Multiple Residences	2000
21,544	Multiple Residences	1938
4,216	Office	2000
4,217	Office	2000
2,856	Auditorium	2000

The remainder of the subject property consists of pavement and landscaping. Subject property layout and boundaries are depicted on the subject property Orientation Diagram (Figure 2).

Electrical services and natural gas are provided by DTE Energy. The City of Detroit provides potable water and sewer services to the subject property.

3.3 User Provided Information

The ASTM E 1527-21 standard outlines the User responsibilities to assist in the identification of RECs in the connection with the subject property. On April 22, 2024, Mr. Nathan Keup of GDC-DHC Parkside II Limited Housing Association, LLC, the User, completed a User Questionnaire that is presented in Attachment 3. The User representative indicated they are aware of the historical Phase II ESA results for the subject property. Refer to Section 4.3.4 for more information regarding the historical Phase II ESA. It is Triterra's opinion the



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documented presence of soil and groundwater contamination on the subject property represents a REC in connection with the subject property.

3.4 Environmental Liens or Activity and Use Limitations

Reviewing land title records for Activity and Use Limitations (AULs) and environmental liens (or judicial records where applicable) is a User's responsibility.

It is Triterra's understanding that GDC-DHC Parkside II Limited Housing Association, LLC has not completed their responsibility to "search for the existence of environmental liens and AULs that are filed or recorded against the subject property", and therefore no records, or information thereof has been provided to Triterra.

On March 15, 2024, Triterra reviewed the Remediation and Redevelopment Division Perfected Lien List, obtained from the EGLE website. According to EGLE, the information provided represents the most current publicly accessible list of properties associated with state environmental liens. No recorded environmental liens were identified in connection to the subject property.

On March 15, 2024, Triterra reviewed the United States Environmental Protection Agency (USEPA) Institutional and Engineering Controls Data for properties located in Michigan. No recorded Institutional and Engineering Controls Data were identified in connection to the subject property.

On March 15, 2024, Triterra reviewed the EGLE Environmental Mapper for known Activity Use Limitations associated with the subject property. According to the EGLE Environmental Mapper, no AULs are associated with the subject property.

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3.5 Current Uses of the Adjoining Sites

Known current uses of adjoining sites are summarized in the following table:

Direction	Name Address	Activity
North	5650 Conner Street	Vacant
East	Chandler Park 12700 Harper Street	Recreational Park
	12831 Frankfort	Park
South	Popeyes Louisiana Kitchen 12218 E. Warren Avenue	Restaurant
	Captain Jay's Fish & Chicken 12248 E. Warren Avenue	Restaurant
	Xplore Closet & Collections 12300 E. Warren Avenue	Clothing Store
	Exotic Heads East 12304 E. Warren Avenue	Hookah Store
	JJ Beauty Supply 12324 E. Warren Avenue	Beauty Supply Store
	Al's Fresh Fish & Chicken 12336 E. Warren Avenue	Seafood Market
	Parkside Market 12300 E. Warren Avenue	Liquor Store
	12500 E. Warren Avenue	Vacant
	Mr. Sea's Fresh Fish & Seafood 12540 E. Warren Avenue	Seafood Market
	Z Tires Auto Repair LLC 12630 E. Warren Avenue	Auto Repair Store
	Marathon Gas 12620 E. Warren Avenue	Gasoline Station



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	Lonestar Catering 12700 E. Warren Avenue	Catering Food and Drink Supplier
	Brown's Chapel Baptist Church 12920 E. Warren Avenue	Baptist Church
West	Detroit Community Health 12800 E. Warren Avenue	Dialysis Center
	Church's Texas Chicken 11965 E. Warren Avenue	Restaurant
	Big Mac's Smoke Shop 11919 E. Warren Avenue	Tobacco Shop
	5 Stars Nails & Spa 11931 E. Warren Avenue	Nail Salon
	Omni Convalescent Center 5201 Conner Street	Assisted Living Facility
	Ford Wellness Center 5405 Conner Street	Hospital

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4.0 ENVIRONMENTAL RECORDS REVIEW

Triterra interviewed individuals, reviewed environmental and historical records, and reviewed local physiographic, geologic, and hydrologic information to determine historical and current land ownership and use, physical setting, and identify RECs associated with the subject property. The records and data sources were searched, and the pertinent findings are provided below.

- United States Geological Survey 7.5 Minute Quadrangle Topographic Map
- Michigan Department of Environment, Great Lakes and Energy - Scanned Water Well Records
- Michigan Department of Environment, Great Lakes and Energy – Environmental Mapper
- Environmental Data Resources Radius Map™ Report with Geotcheck ®
- Michigan Department of Environment, Great Lakes, and Energy - Remediation Information Data Exchange (RIDE)
- Michigan Department of Licensing and Regulatory Affairs
- Michigan Department of Environment, Great Lakes and Energy and Licensing and Regulatory Affairs Storage Tank Division Information Database
- Wayne County Health Department
- City of Detroit – Fire Department

4.1 Physical Setting

According to the topographic map, the subject property is approximately 602-feet above mean sea level and relatively flat. The general topography trends downwards toward the south. The nearest surface water body is the Detroit River located approximately 2.16-miles south from the subject property.

Triterra queried the Michigan Department of Environment, Great Lakes, and Energy (EGLE) Well Record Retrieval System and/or GeoWebFace pertaining to well logs and subsurface information. No water well records were available for the subject property or surrounding area.

According to subsurface investigations conducted on the subject property in 2006 and 2023, subsurface conditions for the site generally consist of fine to medium grained sand to six feet below grade, underlain by stiff, sandy clay to approximately 12 to 16 feet below grade, the maximum depth explored. Groundwater was encountered at approximately four to nine feet below grade.

The shallow water table is often a subdued expression of surface topography. Shallow groundwater generally flows from areas of groundwater recharge (hills and broad uplands) to areas of groundwater discharge (wetlands, river, and lakes). Based on the local surface topography, local shallow groundwater is expected to flow generally south. Other man-made features such as wells, roads, filled areas, buried utility lines and sewers, and drainage ditches may alter the natural shallow groundwater flow direction.



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4.2 Environmental Database Search

Triterra retained Environmental Data Resources, Incorporated (EDR) to conduct an environmental records search of the following standard, federal, and state databases to identify documented sites that may represent RECs on and near the subject property. Portions of a March 6, 2024 environmental records search report prepared by EDR are provided in Attachment 4. The report contains information that is used to identify sites that may represent RECs and lists and describes sites within their respective ASTM E 1527-21 search radii of the subject property. Sites mapped by EDR are listed in the Map Findings Summary on page 4 and their location is shown on the maps preceding page 4 of the EDR report. The EDR report also provides a detailed summary of each site. Unmapped sites, as identified by EDR, are sites that for various reasons cannot be mapped through the EDR query system.

Triterra identified sites of potential concern from the EDR report and present them in the table below. Unmapped sites determined by Triterra as potential concerns within the applicable approximate minimum search distance(s) and to be suspect RECs are also included in the table. Based on the assumed groundwater flow direction, local topography, current status of the site, and/or distance from the subject property, the remaining mapped and unmapped sites do not appear to represent suspect RECs in connection with the subject property. For each site of potential concern, Triterra reviewed federal, state, tribal and local government records and historical sources, as necessary. Historical sources reviewed during the investigation are referenced in Section 5.0. Descriptions of the identified sites of potential concern are provided below.

EDR SITES OF POTENTIAL CONCERN		
Site Name and Address	Approximate Distance and Direction from subject property ¹	Name of List ²
5250 Connor Detroit 5250 Connor Street	the subject property	FINDS, BROWNFIELDS
Detroit Housing Commission 12520 Frankfort Street	The subject property	RCRA NonGen/NLR
12553 McCoy Circle	The subject property	LEAD
Parkside Valet Shop 12519 E. Warren Avenue	South adjoining	HIST CLEANER
Parkside Housing Pro 12515 E. Warren Avenue	South adjoining	RCRA NonGen/NLR, FINDS, ECHO
Weisman Irving I 12511 E. Warren Avenue	South adjoining	HIST CLEANER
Reitzloff Robt 12450 E. Warren Avenue 12400 E. Warren Avenue	South adjoining	HIST AUTO, RCRA-VSQG



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Ruchala Peter 12712 E. Warren Avenue 12540 E. Warren Avenue 13000 E. Warren Avenue 13047 E. Warren Avenue	South adjoining	HIST AUTO
Genoa Healthcare LLC 12800 E. Warren Avenue	South adjoining	RCRA-SQG
Red Sea Inc Cope and Warren Service Station 12500 E. Warren Avenue	South adjoining	UST FINDER, UST, HIST AUTO
Amin Shariff Warren Petro-Mart Inc Max Gas Mart Jimmy Investment 2, LLC 12620 E. Warren Avenue	South adjoining	UST FINDER, LUST, UST, WDS, HIST AUTO, UST FINDER RELEASE, INVENTORY, BEA, FINANCIAL ASSURANCE
Self Serve Laundry 12730 E. Warren Avenue	South adjoining	HIST CLEANER
CNS Healthcare 12734 E. Warren Avenue	South adjoining	INVENTORY, BEA, LUST, UST
Warren-Conner Super Service 12200 E. Warren Avenue	South adjoining	HIST AUTO
12312 E. Warren Avenue	South adjoining	INVENTORY
Firestone Mastercare 11919 E. Warren Avenue	South adjoining	UST FINDER RELEASE, LUST, UST, RCRA NonGen/NLR, FINDS, EXHO
National Plating Co 5417 Conner Street	West adjoining	RCRA NonGen/NLR, FINDS, ECHO, NY MANIFEST, WDS
Chandler Park Service 5650 Conner Street	North adjoining	UST FINDER, UST FINDER RELEASE, LUST, UST, FINANCIAL ASSURANCE, WDS, RCRA NonGen/NLR, FINDS, ECHO
Warren and Conner Area 118454 – 11892 E. Warren Avenue	210-feet southwest	BEA
Bob's Sunoco Service 5581 Conner Avenue	245-feet northwest	HIST AUTO

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Samaritan Center Samaritan Manor 5555 Conner Street	350-feet west	UST FINDER, AIRS, BEA, RCRA- VSQG, UST
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¹EDR sites are mapped by address. Distances and/or site directions listed above may be adjusted from those reported by EDR to better represent field conditions and potential site boundaries.

²Definitions of acronyms and lists are presented in the EDR report.

Triterra reviewed available files from the Michigan Department of Environment, Great Lakes, Energy (EGLE) online FOIA system on March 14, 2024. Information from the file review was used to form an opinion for these offsite locations.

5250 Connor Detroit – 5250 Connor Street (currently vacant) is the subject property and is listed as a Facility Index System (FINDS) and Brownfields site. According to EGLE no records were available for the property. Triterra also requested relevant records from the City of Detroit. According to a March 11, 2024 response from the City, no records were available. According to a Brownfield Redevelopment Assessment Report completed by the Michigan Department of Environmental Quality (MDEQ), dated September 17, 2014, and made available to Triterra through the Owner representative, contaminants are present on the subject property at concentrations exceeding EGLE Part 201 Residential Generic Cleanup Criteria (GSS), further discussed in Section 5.3.4. It is Triterra’s opinion the documented presence of contamination on the subject property represents a REC in connection with the subject property.

Detroit Housing Commission – 12520 Frankfort Street (Villages at Parkside) is the subject property and is listed as a Resource and Conservation Recovery Act (RCRA) Non-Generator (NonGen/NLR) site. No evaluations or violations have been listed for the site. It is Triterra’s opinion the listing does not represent a REC in connection with the subject property.

12553 McCoy Circle (currently Villages at Parkside) is the subject property and is listed as a Lead site. According to the EDR report, a lead inspection/risk assessment was conducted onsite on February 18, 2019. Lead based hazards were reportedly identified. It is Triterra’s opinion the listing does not represent a REC in connection with the subject property.

Parkside Valet Shop – 12519 E. Warren Avenue (currently vacant) adjoins the subject property to the south and is listed as a historical dry cleaning site. According to the EDR report and city directories, the site operated as a dry cleaner in 1954. Triterra requested any available inspection records for the site from EGLE. On March 14, 2024, Triterra received a response from EGLE indicating no records were available for the site. Dry cleaning operations are associated with the use of chlorinated solvents (typically tetrachloroethylene, also known as “perc” or PCE). PCE is typically stored in aboveground storage tanks (ASTs) or underground storage tanks (USTs), and spills/leaks of product are common during solvent transfer, storage, operation, and maintenance activities. Potential exists for an unknown or unreported release of chlorinated solvents on the subject property; therefore, it is Triterra’s opinion the site represents a REC in connection with the subject property. In addition, the site is within critical distance of the subject property to create a potential vapor encroachment condition (VEC) and could pose a concern for vapor intrusion into the subject property buildings.

Parkside Housing Pro – 12515 E. Warren Avenue (currently vacant) adjoins the subject property to the south and is listed as a RCRA NonGen/NLR, FINDS, and Enforcement Compliance and History Online (ECHO)



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site. According to the EDR report, no violations or evaluations have been reported for the site. It is Triterra's opinion the site does not represent a REC in connection with the subject property.

Weisman Irving I – 12511 E. Warren Avenue (currently vacant) adjoins the subject property to the south and is listed as a historical dry cleaning site. According to the EDR report and city directories, the site operated as a dry cleaner in 1940. Triterra requested any available inspection records for the site from EGLE. On March 14, 2024, Triterra received a response from EGLE indicating no records were available for the site. Potential exists for an unknown or unreported release of chlorinated solvents on the subject property; therefore, it is Triterra's opinion the site represents a REC in connection with the subject property. In addition, the site is within critical distance of the subject property to create a potential VEC and could pose a concern for vapor intrusion into the subject property buildings.

Reitzloff Robt, Miller's Standard Service – 12450 E. Warren Avenue & 12400 E. Warren Avenue (currently Parkside Market) adjoins the subject property to the south and is listed as a historical auto site. The site is also associated with Bill's Speedway located at 12400 E. Warren Avenue, which is also listed as a historical auto site. According to city directories, the site was utilized for gasoline service station operations from approximately 1926 until 1971. Gasoline service stations are associated with the usage and storage of various hazardous petroleum products that are typically stored within USTs and/or aboveground storage tanks (ASTs). Triterra encountered no records pertaining to registered USTs onsite; no leaks or releases have been reported for the site. Due to the length of time the site operated as a gasoline service station, it is Triterra's opinion the site represents a REC in connection with the subject property.

Ruchala Peter – 12712 E. Warren Avenue, 12540 E. Warren Avenue, 13000 E. Warren Avenue, & 13047 E. Warren Avenue (currently Lonestar Catering) adjoins the subject property to the south and is listed as a historical auto site. According to the EDR report, the site was listed as a gasoline service station in 1926. Gasoline service stations are associated with the usage and storage of various hazardous petroleum products that are typically stored within USTs and/or ASTs. Triterra encountered no records pertaining to registered USTs onsite; no leaks or releases have been reported for the site. It is Triterra's opinion the site represents a REC in connection with the subject property.

Genoa Healthcare LLC – 12800 E. Warren Avenue (currently Genoa Healthcare) adjoins the subject property to the south and is listed as a Resource and Conservation Recovery Act (RCRA) Small Quantity Generator (SQG). The site currently operated as a pharmacy and drug store. No evaluations or violations have been reported. It is Triterra's opinion the site does not represent a REC in connection with the subject property.

Red Sea Inc, Cope and Warren Service Station – 12500 E. Warren Avenue (currently vacant) adjoins the subject property to the south and is listed as an UST Finder, UST, and historical auto site. According to the EDR report, a 500-gallon UST containing used oil was installed onsite on an unknown date, and was removed on October 11, 2011. According to city directories, the site operated as a gasoline service station from approximately 1954 to 1972. Due to the site's former operations, it is Triterra's opinion there is potential for additional USTs to have existed onsite. No leaks or releases have been reported. Due to the length of time the site operated as a gasoline service station, it is Triterra's opinion the site represents a REC in connection with the subject property.



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Amin Shariff, Warren Petro Mart Inc, Max Gas Mart, Jimmy Investment 2, LLC – 12620 E. Warren Avenue (currently Marathon Gas) adjoins the subject property to the south and is listed as a UST Finder, UST, LUST, waste data system (WDS), historical auto, UST Finder Release, BEA, Financial Assurance, and Inventory site. According to the EDR report, the site has been listed as a gasoline service station since approximately 1964, and is currently operating as a gasoline service station; subsequently, six USTs have reportedly existed onsite. The tanks are described in the table below.

Tank ID	Capacity (gallons)	Contents	Installation Date	Removal Date
6	10,000	Diesel, Gasoline	7/1/2013	In Use
5	10,000	Not Reported	2/15/1999	In Use
4	8,000	Gasoline	Not Reported	7/9/2013
3	4,000	Gasoline	3/17/1985	7/1/2013
2	10,000	Gasoline	3/17/1981	2/15/1999
1	10,000	Gasoline	3/17/1981	2/15/1999

Two leaks (leak numbers 29794 and 33895) of gasoline have been reported for the site on August 29, 1998 and February 19, 2021. The leak statuses remain open as of the date of this report. Triterra requested the BEA for the site under location identification number 00002295; on March 8, 2024, Triterra received a BEA report for an unrelated site. Triterra sent another request for the BEA report on May 2, 2024; Triterra received the identical report for the unrelated site. As of the date of this report, Triterra has not received the correct report for the address mentioned above. It is Triterra's opinion the site represents a REC in connection with the subject property due to the open leak number and proximity to the subject property.

Self Serve Laundry – 12730 E. Warren Avenue (currently vacant) adjoins the subject property to the south and is listed as a historical dry cleaning site. According to the EDR report and city directories, the site operated as a dry cleaner in 1954. Triterra requested any available inspection records for the site from EGLE. On March 14, 2024, Triterra received a response from EGLE indicating no records were available for the site. Dry cleaning operations are associated with the use of chlorinated solvents (typically tetrachloroethylene, also known as "perc" or PCE). PCE is typically stored in aboveground storage tanks (ASTs) or underground storage tanks (USTs), and spills/leaks of product are common during solvent transfer, storage, operation, and maintenance activities. Potential exists for an unknown or unreported release of chlorinated solvents on the subject property; therefore, it is Triterra's opinion the site represents a REC in connection with the subject property.

CNS Healthcare – 12734 E. Warren Avenue (currently vacant) adjoins the subject property to the south and is listed as an inventory, BEA, LUST, and UST site. According to the EDR report, an UST of an unknown capacity containing an unknown substance existed onsite; installation and removal dates were not provided. A BEA report was completed for the site by Applied EcoSystems, Inc. (AE), dated December 6, 2021. AE indicated that the western portion of the site previously operated as a gasoline station from at least 1941 until at least 1950. No records of tank removals or closure conditions were identified. AE conducted a subsurface investigation onsite on November 24, 2021, and advanced a total of five soil borings (SB-1 through SB-5) utilizing hydraulic-driven direct-push methods (i.e. Geoprobe®). Four soil samples were

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collected and submitted for laboratory analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX), polynuclear aromatic hydrocarbons (PAHs), and lead. Groundwater samples were also collected and submitted for laboratory analysis of volatile organic compounds (VOCs). Analytical results identified the presence of benzene, ethylbenzene, naphthalene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and xylenes in soil above the current Part 201 Residential GCC. Based on the close proximity of the site to the subject property, is Triterra's opinion the documented contamination onsite represents a REC in connection with the subject property.

12312 E. Warren – 12312 E. Warren Avenue (currently vacant) adjoins the subject property to the south and is listed as an Inventory site. No additional information was provided for the site; it is Triterra's opinion the site does not represent a REC in connection with the subject property.

Warren-Conner Super Service – 12200 E. Warren Avenue (currently Popeye's Louisiana Kitchen) adjoins the subject property to the south and is listed as a historical auto site. According to the EDR report, the site operated as a gasoline service station as early as 1940 until approximately 1975. Gasoline service stations are associated with the usage and storage of various hazardous petroleum products, typically stored within USTs. Triterra encountered no documentation of USTs for the site. It is Triterra's opinion there is potential for an unreported leak or release to have occurred; therefore, it is Triterra's opinion the site represents a REC in connection with the subject property.

Firestone Mastercare – 11919 E. Warren Avenue (currently multi-tenant commercial) adjoins the subject property to the southwest and is listed as an UST Finder Release, LUST, UST, RCRA NonGen/NLR, FINDS, Enforcement and Compliance History Online (ECHO), Manifest, WDS, and UST Finder site. According to the EDR report, one UST containing 1,000-gallons of used oil was installed onsite on March 24, 1981 and was removed on July 15, 1993. A leak (leak number C-0910-93) of used oil was reported for the site on July 22, 1993. Triterra requested the closure report from EGLE on March 8, 2024. EGLE's response on March 14, 2024 indicated that no records were found for the site. It is Triterra's opinion the site's historical gasoline service station operations represent a REC in connection with the subject property.

National Plating Co – 5417 Conner Street (currently vacant) adjoins the subject property to the west and is listed as a RCRA NonGen/NLR, FINDS, and ECHO site. No evaluations or violations have been reported for the site. It is likely that the site is associated with metal plating; Triterra reviewed available historical sources and it is unknown what time period the site began and ended operations. Metal plating is associated with various hazardous substances such as heavy metals that have the ability to impact the subsurface. It is Triterra's opinion the site represents a REC in connection with the subject property.

Chandler Park Service – 5650 Conner Street (currently vacant) adjoins the subject property to the north and is listed as an UST Finder, UST Finder Release, LUST, UST, Financial Assurance, WDS, RCRA NonGen/NLR, FINDS, and ECHO site. According to the EDR report, 11 USTs have existed onsite; the tanks are described in the table below.

Tank ID	Capacity (gallons)	Contents	Installation Date	Removal Date
Not Reported	7,000	Diesel, Gasoline	Not Reported	In Use
Not Reported	7,000	Diesel, Gasoline	Not Reported	In Use



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Not Reported	7,000	Diesel, Gasoline	Not Reported	In Use
Not Reported	7,000	Diesel, Gasoline	Not Reported	In Use
Not Reported	7,000	Diesel, Gasoline	Not Reported	In Use
Not Reported	7,000	Diesel, Gasoline	Not Reported	In Use
Not Reported	7,000	Diesel, Gasoline	Not Reported	In Use
Not Reported	7,000	Diesel, Gasoline	Not Reported	In Use
Not Reported	7,000	Diesel, Gasoline	Not Reported	In Use
Not Reported	7,000	Diesel, Gasoline	Not Reported	In Use
Not Reported	7,000	Diesel, Gasoline	Not Reported	In Use

A leak of gasoline (leak number C-0840-97) was reported for the site on September 15, 1997, and was deemed closed on January 28, 1998. According to the closure report, the release appeared to have been from several small holes in the bottom of the UST. After removal of the UST system, a total of 161 cubic yards of soil were removed from the surrounding area, and were disposed of at a licensed disposal facility. According to a figure created by NTH Consultants, LTD., the extent of the contaminations appears to be north of the onsite building, approximately 200-feet north of the subject property. The known contaminant plume does not appear to be migrating southwards towards the subject property. For that reason and due to remedial efforts, it is Triterra's opinion the site does not represent a REC in connection with the subject property.

Warren and Conner Area – 118454 – 11892 E. Warren Avenue (currently multiple commercial tenants) is located approximately 210-feet southwest and is listed as a BEA site. A BEA report was completed for the site by ATC Associates Inc. (ATC) and is dated March 24, 2003. According to ATC's BEA report, the site was historically occupied by commercial/retail development from at least 1953. Prior to that time, municipal solid waste materials and construction debris were deposited onsite. The materials were reportedly removed prior to development of the site for commercial purposes in 1953. Three USTs containing heating oil were previously identified onsite. The USTs were taken out of service in September 2002. ATC conducted a subsurface investigation onsite in June and July of 2001 and June of 2002. A total of 29 borings (GP-1 through GP-29) were advanced onsite utilizing Geoprobe® methods. 29 soil samples and 3 groundwater samples were collected and submitted for laboratory analysis of BTEX, VOCs, PAHs, BTEX, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and Michigan 10 Metals. Analytical results identified concentrations of lead and various PAHs were detected in soil above the current Part 201 Residential GCC.

The extent of the soil contamination found onsite is located approximately 645-feet southwest of the subject property; therefore, it is Triterra's opinion the site does not represent a REC in connection with the subject property.

Bob's Sunoco Service – 5581 Conner Avenue (currently vacant) is located approximately 245-feet northwest and is listed as a historical gasoline service station site. The site operated as a gasoline service station approximately in the 1960s. Gasoline service stations are associated with the usage and/or storage of various hazardous petroleum products, typically stored within USTs or ASTs. No records of tanks or

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releases were found; however, there is potential that an unreported release has occurred. It is Triterra's opinion the site represents a REC in connection with the subject property.

Samaritan Center – 5555 Conner Street (currently multiple commercial tenants) is located approximately 350-feet west of the subject property and is listed as an Aerometric Information Retrieval System (AIRS), BEA, RCRA Very Small Quantity Generator (VSQG), and UST site. According to the EDR report, two USTs, containing 6,000-gallons of fuel/oil and 10,000-gallons of diesel, were installed onsite in October 1998 and January 1984, respectively. The fuel/oil UST is reported as currently in use and the diesel UST was removed on September 1, 1999. A BEA report was completed for the site by Clayton Group Services (Clayton), dated January 26, 2001. According to Clayton, historical site operations include medical complex, several industrial and lumber businesses, and filling station. According to Clayton, a release was reported for the site when an active heating oil product line was damaged during excavation of a storm sewer trench onsite. Approximately 30-gallons of product was released; repairs were made to the damaged pipe and free product was pumped from the excavation. Approximately one cubic yard of contaminated soil was excavated and disposed of offsite. A total of three bottom and six sidewall soil samples were collected from the excavation and analyzed for BTEX and PAHs. All constituents were reportedly below the residential cleanup criteria at the time.

Clayton conducted a subsurface investigation onsite on October 17 and 18, 2000. A total of 24 soil borings (SB-1 through SB-24) were advanced onsite utilizing Geoprobe® methods to depths ranging from eight to 20 feet below grade. A total of 24 soil samples and 13 groundwater samples were collected and submitted for laboratory analysis of VOCs, PAHs, polychlorinated biphenyls (PCBs,) and Michigan 10 Metals. Analytical results identified the presence of various VOCs, PAHs, and metals above the current ELGE Part 201 Residential GCC. The nearest location of contaminations is located approximately 275-feet southwest of the subject property. Due to the presence of a multi-lane major roadway between the site and subject property, underground utilities, and proximity, it is Triterra's opinion the site does not represent a REC in connection with the subject property.

4.3 Additional Environmental Record Sources

4.3.1 Health Department Records

Triterra contacted the Wayne County District Health Department to request any available information pertaining to environmental concerns associated with the subject property, including information on any septic systems and water wells located on the subject property. According to a March 12, 2024, response from Wayne County Health Department, no records were available for the subject property.

4.3.2 Fire Department Records

Triterra contacted the City of Detroit to request any available fire department and building records associated with the subject property. According to a March 11, 2024 response from the City, no records were available for the subject property.



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4.3.3 Geological Survey Records

Triterra queried the State of Michigan Geological Survey Division's (GSD) Drilling Unit Maps for oil and gas permits/wells for the subject property's township, range, and section number. According to the April 22, 2024 query results, no known active oil and/or gas wells exist, and no permits have been recorded for the subject property.

4.3.4 Other Environmental Records

Triterra reviewed the following document as a part of this Phase I ESA.

- "MSHDA Phase I Environmental Site Assessment, 5250 Conner Street, Detroit, Michigan 48213," completed by Triterra, dated November 30, 2023.

According to the 2023 MSHDA Phase I ESA completed by Triterra for 5250 Conner Street, this piece of the subject property has reportedly been undeveloped from at least 1937 until 1940; the subject property operated as an apartment complex since at least 1999 and the former residential structures were razed between 1999 and 2005.

A report titled Brownfield Redevelopment Assessment Report, dated September 17, 2014 was completed by the Michigan Department of Environmental Quality (MDEQ), currently known as EGLE. According to the report, past known environmental impacts to the subject property are limited. Other than possible PCH releases from two former transformers, former environmental assessments stated that no known environmental issues of concern could be documented for the subject property. Nearby sites were found to contain potential environmental concerns, including multiple locations that contained diesel and gasoline USTs that were historically utilized for manufacturing or industrial activities. On June 2 and 3, 2014, seven surficial soil samples and thirteen soil boring samples were collected across the entire 5250 Conner Street parcel, for chemical analysis of one or more of the following parameters: volatile organic compounds (VOCs), semi-volatile organics, pesticides, polychlorinated biphenyls (PCBs), and metals. Analytical results reported various semi-volatiles and metals above the current Part 201 Residential Generic Cleanup Criteria.

Additionally, Triterra conducted a subsurface investigation on the subject property on March 8, 2024 to assess for additional contaminants on the subject property. On March 8, 2024, Triterra advanced a total of fifteen soil borings (SB-1 through SB-15), utilizing hydraulic-driven direct-push methods (i.e. Geoprobe®) methods, in conjunction with ERG, to a maximum depth of twenty feet below grade. A total of fifteen soil samples were collected and submitted for laboratory analysis of VOCs, polyaromatic hydrocarbons (PAHs), and Michigan 10 Metals (arsenic, barium, cadmium, total chromium, copper, lead, mercury, selenium, silver, and zinc). Analytical results identified the presence of naphthalene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, fluoranthene, fluorene, phenanthrene, arsenic, total chromium, lead, mercury, selenium, and zinc in soil above the current Part 201 Residential GCC. Concentrations of several constituents also exceed EGLE's VIAP Screening Levels.

Subsurface conditions for the subject property generally consist of fine to medium sand to approximately two feet underlain by silty clay to twenty feet, the maximum depth explored. Urban fill material consisting of brick, coal, and concrete was found in multiple borings at approximately three feet below grade. See Attachment 5 for

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It is Triterra's opinion the documented presence of contamination in soil represents a REC and VEC in connection with the subject property.

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5.0 HISTORICAL RECORDS REVIEW

Triterra reviewed historical records to develop a history of the subject property and surrounding area and identify any past uses that may have led to RECs in connection with the subject property. Abstracted histories of the subject property and proximate sites, which Triterra obtained from reasonably ascertainable historical records, are provided in the table below. Copies of the available historical records are provided in Attachment 5.

Triterra reviewed the following historical records:

- Sanborn Fire Insurance Maps (1929, 1941, 1950, 1952, 1957, 1962, 1978, 1989, 1991, 1996, 2002)
- Aerial Images (1937, 1949, 1952, 1956, 1961, 1967, 1973, 1981, 1987, 1997, 1999, 2005, 2009, 2012, 2016, 2020)
- City Directories (1911, 1916, 1921, 1926, 1931, 1935, 1940, 1954, 1957, 1962, 1967, 1972, 1977, 1982, 1987, 1992, 1995, 2000, 2005, 2010, 2014, 2017, 2020)
- Topographic Maps (1905, 1918, 1936, 1940, 1952, 1961, 1968, 1985, 2011, 2014, 2017, 2019, 2023)
- User Interview (see Section 3.3)
- Owner Interview (see Section 7.1)
- Phase I ESA dated 11/30/2023 (See Section 4.3.4)
- Subject property walkover (See Section 6.0)

5.1 Subject Property – Historical Use Information

A summary of historical usage of the subject property back to 1929, the date of earliest readily available records, is presented in the following table:

Year / Period	Identified / Inferred Use
1929 – 1997	By 1929, the northern portion of the subject property is undeveloped; the southern portion is occupied by multiple residential dwellings. Parkside Apartments are constructed on the subject property in 1940. A building labeled as “heating plant” and “repair/maintenance shop” is depicted on the southern parcel in 1941. An administration building is located also present south of the heating plant. The heating plant and administration building are razed between 1987 and 1999.
1999 – Current	The former apartment buildings on the northern portion of the subject property are razed sometime between 1999 and 2005. Currently, the northern portion of the subject property is vacant and the southern portion is occupied by Villages at Parkside.

Based on Triterra’s review of historical information, the northern portion of the subject property is undeveloped as early as 1929; the southern portion of the subject property is occupied by multiple residential dwellings at this time. Parkside Apartments are constructed on the northern and southern portions of the subject property in 1940. A building consisting of a heating plant and repair shop was present on the southern portion of the subject property as well as an administration building. The heating plant and administration building are razed between 1987 and 1999. Between 1999 and 2005, the apartments on the northern portion of the subject property are razed. Currently, the northern portion of the subject property is vacant and the southern portion of the subject property is occupied by Villages at Parkside.



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A building labeled as “heating plant” and “repair/maintenance shop” is depicted on the subject property in 1941 and are present until sometime between 1987 and 1999. It is unknown to Triterra what heating methods the subject property utilized during this time, or what type of repair shop was operating on the subject property at this time. Although, the repair/maintenance shop is likely related to the subject property’s residential operation, it is unknown what the housekeeping conditions were like at the time, or what chemicals may have been stored and used onsite. Additionally, the northern parcel is formerly associated with residential operations. Evidence of urban fill was found on the subject property, likely associated with the former residential homes. Refer to Section 4.3.4 for more information regarding the previous subsurface investigation. In Triterra’s opinion, the historical use of the subject property represents a REC in connection with the subject property.

Note- the heating plant and administration building are shown on the 2002 Sanborn maps; however, review of the aerial photographs indicate the buildings were razed between 1987 and 1999.

Triterra identified the following data failure associated with historical subject property use: the first developed uses of the subject property prior to 1929 could not be determined. Based on the historical uses of the subject property, it is Triterra’s opinion that the data failure is not a significant data gap.

5.2 Historical Heating Source

Triterra reviewed readily available and reasonably ascertainable records in an attempt to identify the historical heating source. A heating plant was historically present as discussed in Section 5.1 and was previously identified as a REC. Triterra was unable to confirm the exact date natural gas was routed to the subject property, or identify a knowledgeable party thereof. Therefore, the possibility exists that alternative heating fuels (i.e. steam, propane, wood, electric, coal, and/or fuel oil) were used by previous occupants of the subject property prior to the connection of natural gas. No records were identified that suggested the use of heating oil or the former presence of a heating oil tank (AST or UST) at the subject property. Therefore, in Triterra’s opinion the unknown historical heating source does not represent a REC in connection with the subject property.

In the event that historical heating sources (i.e. coal/ fuel oil, etc.) are encountered during future development or subject property use, Triterra recommends the source be properly removed and disposed in accordance with applicable federal, state, and local regulations.

5.3 Proximate Sites of Potential Concern – Historical Use Information

An attempt was made to assess the historical uses of proximate sites by reviewing records referenced in Section 5.0.

The east adjoining property is vacant as early as 1937. Currently the site is utilized by Chandler Park.

The north adjoining property is occupied by two small structures as early as 1937; Triterra was unable to identify if the structures were residential or commercial in nature. By 1946, multiple parked cars are visible on the site. By 1967, the existing commercial structure is visible onsite. Refer to Section 4.2 for additional information about the site. Currently, the site is vacant.



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The south adjoining properties are discussed in Section 4.2. Additionally, according to Sanborn maps dated in 1941, a gasoline station was depicted formerly adjoining the subject property to the south at 12740 E. Warren Avenue. This site was not included in the EDR sites of concern. Gasoline stations are associated with the usage and/or storage of various hazardous petroleum products that have the ability to impact the subsurface if a release/leak occurs. It is Triterra's opinion the southern adjoining site represents a REC in connection with the subject property. Additional gasoline stations and dry cleaners were identified in the EDR report and discussed in Section 4.2. The remainder of the southern adjoining sites were utilized for various low-risk commercial purposes.

The western adjoining sites were primarily utilized for various low-risk commercial purposes, and residential purposes as early as 1937. Disturbed soils are visible to west in 1949 as development occurs in the area. Currently, the western adjoining sites are utilized for various commercial purposes including retail, medical services, and restaurants. Western sites of concern were identified and discussed in Section 4.2

Adjoining sites of concern identified in the course of researching the subject property itself are described in Section 4.2.

Triterra identified the following data failure associated with historical uses on adjoining sites of potential concern: Triterra was unable to identify to uses/occupants of several adjoining properties for periods of time. Based on the RECs identified, it is Triterra's opinion that the data failure did not impair the ability to identify RECs in connection with the subject property.

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6.0 SUBJECT PROPERTY RECONNAISSANCE

The subject property reconnaissance was conducted to identify evidence of the presence of suspect RECs in connection with the subject property. Descriptions of the current subject property use and conditions are presented in the following sections.

6.1 Methodology and Limitations

On March 16, 2024, Ms. Meredith Crane on behalf of Triterra completed a subject property walkover to observe and record the subject property use and conditions. Ms. Crane was unaccompanied during the subject property walkover. Photographs taken during the walkover are included in Attachment 1.

The following limitation was encountered during Triterra's subject property walkover: Triterra was unable to access the individual apartment suites during the visit. Based on the residential uses of the units, it is Triterra's opinion the limitation did not impair the ability to identify RECs in connection with the subject property.

6.2 General Observations

The subject property consisted of a residential apartment complex and vacant land. At the time of the reconnaissance, the southern portion of the subject property was occupied by Villages at Parkside.

6.2.1 Chemical Use, Storage, and Disposal

The use, storage, and/or disposal of chemicals was not observed on the subject property.

6.2.2 USTs and ASTs

Triterra did not observe evidence of current or former UST systems (e.g., vent pipes, fill ports, dispensing pumps, patched pavement, etc.) nor evidence of current or former AST systems (e.g., stands, secondary containments, etc.) on the subject property.

6.2.3 PCB Containing Equipment

Triterra observed a pad mounted electrical transformers the subject property. No labels were observed that indicated the PCB content of the transformer. Triterra observed no evidence of leakage or staining on the ground surrounding the transformer.

6.2.4 Drains and Sumps

Triterra observed no drains or sumps on the subject property.

6.2.5 Pits, Ponds, and Lagoons

Triterra observed no visual evidence of pits, ponds, or lagoons on the subject property.



Phase I Environmental Site Assessment

5250 Conner Street, 12700 Harper Street, 12001 & 12019 E. Warren

Detroit, Michigan 48213

May 2, 2024



6.2.6 Heating and Cooling

The buildings are heated by a natural gas-fired forced-air furnace and cooled by a pad-mounted air conditioning unit.

6.2.7 Solid Waste Generation and Disposal

Triterra observed no exterior visual evidence of the generation, treatment, storage, or disposal of solid wastes at the subject property with the exception of typical household and office waste.

6.2.8 Additional Features

Triterra observed no visual evidence of additional features at the subject property which were indicative of suspect RECs in connection with the subject property.

6.3 Proximate Site Observations

Refer to Section 3.5 for a list of adjoining sites. Triterra observed no evidence of conditions on adjoining sites that would potentially impact the subject property.

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7.0 INTERVIEWS

Information obtained from interviews was used to determine historical and current land ownership and use and is discussed below. Information obtained during the interviews is included in Attachment 6 and is discussed in context in Sections 5.0 and 6.0.

7.1 Subject Property Owner

On April 17, 2024, the Detroit Housing Commission (DHC), the Owner representative completed a questionnaire that is included in Attachment 6. The DHC indicated they have been affiliated with the subject property since approximately 1930. The DHC indicated the subject property has been utilized for public housing since the 1930s. No RECs were identified in connection with the subject property during review of the questionnaire.

7.2 Past Owner, Operators and/or Occupants

Past owners, operators, and occupants were not identified and/or available at the time of this report.

7.3 State and/or Local Agency Officials

Refer to Sections 4.3.1 and 4.3.2 for a discussion of State and Local agency provided information for the subject property.

7.4 Other Individuals

Given that the subject property is not abandoned and no evidence of uncontrolled access or dumping was observed during the site visit, no adjoining property owners were interviewed during the course of this investigation.

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Detroit, Michigan 48213

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8.0 NON-SCOPE SERVICES

8.1 Additional Non-scope services

No additional non-scope services were performed during this Phase I ESA.

Phase I Environmental Site Assessment

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Detroit, Michigan 48213
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9.0 FINDINGS, OPINIONS, AND CONCLUSIONS

Triterra has performed a Phase I ESA in conformance with the scope and limitations of ASTM E 1527-21 for the parcels of land located at 5250 Conner Street, 12700 Harper Street, 12001 & 12019 E. Warren Avenue in the City of Detroit, Wayne County, Michigan. Any exceptions to or deletions from this practice are described in Section 2.4 of this report.

The Phase I ESA has revealed the following RECs in connection with the subject property:

- **The documented presence of soil contamination on the subject property (Sections 4.2, 4.3.4, and 5.1).** The most recent subsurface investigation, conducted in March 2023 at the subject property parcel addressed as 5250 Conner Street, identified the presence of naphthalene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, fluoranthene, fluorene, phenanthrene, arsenic, total chromium, lead, mercury, selenium, and zinc in soil above the current Part 201 Residential GCC. The subject property meets the definition of a “facility”, as defined by Section 20101 of PA 451, Part 201, as amended. Additionally, evidence of urban fill including brick, coal, and concrete was discovered on the northern portion of the subject property, likely in association with the former residential buildings. Concentrations of several constituents also exceed EGLE’s VIAP Screening Levels, which also represents a VEC.
- **The potential for contamination on the subject property from historical operations (Section 5.1).** A Sanborn map dated 1941 depicts a structure on the southern portion of the subject property labelled as a “heating plant” and “repair/maintenance shop.” The buildings remained until they were razed between 1987 and 1999. It is unknown to Triterra what the operations entailed at the time. Additionally, it is unknown what type of repair/maintenance took place on the subject property. Potential exists for the use and storage of hazardous substances and/or petroleum products to have been released to the environment.
- **The potential for migration of contamination onto the subject property from nearby sites of concern (Sections 4.2 and 5.2).**
 - Several southern adjoining properties, including 12519 E. Warren Avenue, 12511 E. Warren Avenue, 12450 E. Warren Avenue, 12712 E. Warren Avenue, 12540 E. Warren Avenue, 12712 E. Warren Avenue, 12500 E. Warren Avenue, 12620 E. Warren Avenue, 12730 E. Warren Avenue, 12734 E. Warren Avenue, 12200 E. Warren Avenue) are associated with historical dry cleaning operations and historical filling station operations. Dry cleaning operations are associated with the use of chlorinated solvents (typically tetrachloroethylene, also known as “perc” or PCE) that have the ability to impact the subsurface if a leak or release occurs. Additionally, gasoline service station operations are associated with the usage and/or storage of various hazardous petroleum products. Additionally, multiple of the sites are within critical distance of the subject property to create a potential VEC and could pose a concern for vapor intrusion into the subject property buildings.
 - The southwest adjoining site, 11919 E. Warren Avenue, operated as a gasoline service station as early as 1940 until approximately 1975. Gasoline service stations are associated with the usage and storage of various hazardous petroleum products.

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- o The western adjoining site, 5417 Conner Street, historically operated as a metal plating operation. It is unknown what years the site operated; however, metal plating is associated with various heavy metals that have the ability to impact the subsurface.
- o The northwest adjoining site, 5581 Conner Avenue, operated as a gasoline service station approximately in the 1960s. Gasoline service stations are associated with the usage and/or storage of various hazardous petroleum products.
- o According to Sanborn maps dated in 1941, a gasoline station was depicted formerly adjoining the subject property to the south at 12740 E. Warren Avenue. This site was not included in the EDR sites of concern. Gasoline stations are associated with the usage and/or storage of various hazardous petroleum products that have the ability to impact the subsurface if a release/leak occurs.

Triterra identified the following data failure associated with historical subject property use: the first developed uses of the subject property prior to 1929 could not be determined. Based on the historical uses of the subject property, it is Triterra's opinion that the data failure is not a significant data gap. The following limitation was encountered during Triterra's subject property walkover: Triterra was unable to access the individual apartment suites during the visit. Based on the residential uses of the units, it is Triterra's opinion the limitation did not impair the ability to identify RECs in connection with the subject property.

Phase I Environmental Site Assessment

5250 Conner Street, 12700 Harper Street, 12001 & 12019 E. Warren

Detroit, Michigan 48213

May 2, 2024



10.0 AUTHOR & ENVIRONMENTAL PROFESSIONAL SIGNATURES

This Phase I ESA was prepared by Ms. Alexis Bowen (Environmental Scientist) and reviewed by Ms. Melissa Hunter (Associate Geologist | Director of Due Diligence) on behalf of Triterra. Please direct any questions to Triterra at (517) 702-0470 or visit our webpage at www.triterra.us.

I, Melissa Hunter, declare to the best of my professional knowledge and belief that I meet the definition of Environmental Professional as defined in § 312.10 of 40 CFR 312 and have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed all the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

A handwritten signature in blue ink that reads "Alexis Bowen".

Ms. Alexis Bowen

Environmental Scientist

A handwritten signature in blue ink that reads "Melissa Hunter".

Ms. Melissa Hunter

Associate Geologist | Director of Due Diligence

May 2, 2024

Date



Phase I Environmental Site Assessment

5250 Conner Street, 12700 Harper Street, 12001 & 12019 E. Warren

Detroit, Michigan 48213

May 2, 2024



11.0 REFERENCES

American Society for Testing and Materials, Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process, Designation: E 1527-21, November 2021.

American Society for Testing and Materials, Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions, Designation E 2600-22, May 2022.

Environmental Data Resources, Incorporated, "The EDR Radius Map™ Report with GeoCheck®", 5250 Conner Street, Detroit, Michigan 48213, March 6, 2024.

Environmental Data Resources, Incorporated, "The EDR Aerial Photo Decade Package, 5250 Conner Street, Detroit, Michigan 48213, November 27, 2023.

Environmental Data Resources, Incorporated, "Certified Sanborn® Map Report, 5250 Conner Street, Detroit, Michigan 48213, March 19, 2024.

Environmental Data Resources, Incorporated, "The EDR-City Directory Image Report, 5250 Conner Street, Detroit, Michigan 48213, November 28, 2023.

FIGURES



TRIOTERRA

FIGURE 1 SUBJECT PROPERTY LOCATION

VILLAGES AT PARKSIDE
DETROIT, MICHIGAN 48213

WAYNE COUNTY
T1S, R12E, SECTION 25

PROJECT NUMBER 23-3579





TRI TERRA

FIGURE 2

SUBJECT PROPERTY ORIENTATION DIAGRAM

PROJECT NUMBER 23-3626

**5250 CONNER STREET, 12700 HARPER STREET, 12001 & 12019
E. WARREN AVENUE
DETROIT, MICHIGAN 48213**

**CREATED BY: AFB
3/15/2024**

ATTACHMENT 1

PHOTOGRAPHS



Photo 1: View of community building located at southwest portion of the subject property.



Photo 2: View of apartment buildings located on the subject property.



Photo 3: Alternative view of apartment buildings on the subject property.



Photo 4: View of vacant land located on the northern parcel.



Photo 5: View inside the community building located on the subject property.



Photo 6: View inside the community building located on the subject property.



Photo 7: View to the south from the southern portion of the subject property.



Photo 8: View to the east (Chandler Park) from the eastern side of the subject property.

ATTACHMENT 2

PARCEL INFORMATION - CURRENT

12001 E WARREN 48215 (Property Address)

Parcel Number: 21002687.



Item 1 of 15 2 Images / 13 Sketches

Property Owner: PARKSIDE HOUSING**Summary Information**

- > Commercial/Industrial Building Summary
 - Yr Built: 2000 - # of Buildings: 19
 - Total Sq.Ft.: 110,847
- > Property Tax information found

> Assessed Value: \$0 | Taxable Value: \$0

\$6.00 was charged to your Business Account for this record lookup. See [Account](#) for current balance.**Owner and Taxpayer Information**

Owner	PARKSIDE HOUSING 12001 E WARREN DETROIT, MI 48213-1234	Taxpayer	SEE OWNER INFORMATION
--------------	--	-----------------	-----------------------

General Information for Tax Year 2023

Property Class	201 COMMERCIAL-IMPROVED	Unit	01 CITY OF DETROIT
School District	DETROIT CITY SCHOOL DISTRICT	Assessed Value	\$0
WARD#	21	Taxable Value	\$0
COUNCIL#	4	State Equalized Value	\$0
PP CODE#	Not Available	Date of Last Name Change	12/18/2014
RELATED #	Not Available	Notes	Not Available
Historical District	Not Available	Census Block Group	Not Available
HOPE#	Not Available	Exemption	No Data to Display

Principal Residence Exemption Information**Homestead Date** No Data to Display

Principal Residence Exemption	June 1st	Final
2023	0.0000 %	0.0000 %

Land Information

Zoning Code	R5	Total Acres	16.850
Land Value	\$0	Land Improvements	\$63,456
Renaissance Zone	No	Renaissance Zone Expiration Date	No Data to Display
ECF Neighborhood	Not Available	Mortgage Code	No Data to Display
Lot Dimensions/Comments	Not Available	Neighborhood Enterprise Zone	No

Lot(s)	Frontage	Depth
No lots found.		
Total Frontage: 0.00 ft		Average Depth: 0.00 ft

Legal Description

N WARREN E 1112 THRU 1166 1061 THRU 1111 1242 THRU 1296 ALSO ALL OF THE VACATED ALLEYS ADJ SD LOTS ALSO VAC CONWAR PL PARKTRAIL EUGENE MAYNARD & COPE AVES ADJ SD LOTS ALSO S 28 FT OF FRANKFORT AVE & W 1/2 VAC ANDERDON ADJ SD LOTS JEFFERSON PARK LAND CO LTD SUB NO 2 L63 P13 PLATS, W C R 21/990 917,497 SQ FT

Sale History

Sale Date	Sale Price	Instrument	Grantor	Grantee	Terms of Sale	Liber/Page
No sales history found.						

Building Information - 5208 sq ft Multiple Residences (Commercial)

Floor Area	5,208 sq ft	Estimated TCV	<i>Not Available</i>
Occupancy	Multiple Residences	Class	C
Stories Above Ground	<i>Not Available</i>	Average Story Height	<i>Not Available</i>
Basement Wall Height	<i>Not Available</i>	Identical Units	<i>Not Available</i>
Year Built	2000	Year Remodeled	<i>No Data to Display</i>
Percent Complete	100%	Heat	Complete H.V.A.C.
Physical Percent Good	60%	Functional Percent Good	100%
Economic Percent Good	100%	Effective Age	29 yrs

Building Information - 4096 sq ft Multiple Residences (Commercial)

Floor Area	4,096 sq ft	Estimated TCV	<i>Not Available</i>
Occupancy	Multiple Residences	Class	C
Stories Above Ground	<i>Not Available</i>	Average Story Height	<i>Not Available</i>
Basement Wall Height	<i>Not Available</i>	Identical Units	<i>Not Available</i>
Year Built	2000	Year Remodeled	<i>No Data to Display</i>
Percent Complete	100%	Heat	Complete H.V.A.C.
Physical Percent Good	60%	Functional Percent Good	100%
Economic Percent Good	100%	Effective Age	29 yrs

Building Information - 1216 sq ft Multiple Residences (Commercial)

Floor Area	1,216 sq ft	Estimated TCV	<i>Not Available</i>
Occupancy	Multiple Residences	Class	C
Stories Above Ground	<i>Not Available</i>	Average Story Height	<i>Not Available</i>
Basement Wall Height	<i>Not Available</i>	Identical Units	<i>Not Available</i>
Year Built	2000	Year Remodeled	<i>No Data to Display</i>
Percent Complete	100%	Heat	Complete H.V.A.C.
Physical Percent Good	60%	Functional Percent Good	100%
Economic Percent Good	100%	Effective Age	29 yrs

Building Information - 1632 sq ft Multiple Residences (Commercial)

Floor Area	1,632 sq ft	Estimated TCV	<i>Not Available</i>
Occupancy	Multiple Residences	Class	C
Stories Above Ground	<i>Not Available</i>	Average Story Height	<i>Not Available</i>
Basement Wall Height	<i>Not Available</i>	Identical Units	<i>Not Available</i>
Year Built	2000	Year Remodeled	<i>No Data to Display</i>
Percent Complete	100%	Heat	Complete H.V.A.C.
Physical Percent Good	60%	Functional Percent Good	100%
Economic Percent Good	100%	Effective Age	29 yrs

Building Information - 8856 sq ft Multiple Residences (Commercial)

Floor Area	8,856 sq ft	Estimated TCV	<i>Not Available</i>
Occupancy	Multiple Residences	Class	C
Stories Above Ground	<i>Not Available</i>	Average Story Height	<i>Not Available</i>
Basement Wall Height	<i>Not Available</i>	Identical Units	<i>Not Available</i>
Year Built	1938	Year Remodeled	<i>No Data to Display</i>
Percent Complete	100%	Heat	Complete H.V.A.C.
Physical Percent Good	60%	Functional Percent Good	100%
Economic Percent Good	100%	Effective Age	29 yrs

Building Information - 11178 sq ft Multiple Residences (Commercial)

Floor Area	11,178 sq ft	Estimated TCV	<i>Not Available</i>
Occupancy	Multiple Residences	Class	C
Stories Above Ground	<i>Not Available</i>	Average Story Height	<i>Not Available</i>
Basement Wall Height	<i>Not Available</i>	Identical Units	<i>Not Available</i>
Year Built	1938	Year Remodeled	<i>No Data to Display</i>
Percent Complete	100%	Heat	Complete H.V.A.C.
Physical Percent Good	60%	Functional Percent Good	100%
Economic Percent Good	100%	Effective Age	29 yrs

Building Information - 7074 sq ft Multiple Residences (Commercial)

Floor Area	7,074 sq ft	Estimated TCV	<i>Not Available</i>
Occupancy	Multiple Residences	Class	C
Stories Above Ground	<i>Not Available</i>	Average Story Height	<i>Not Available</i>
Basement Wall Height	<i>Not Available</i>	Identical Units	<i>Not Available</i>
Year Built	1938	Year Remodeled	<i>No Data to Display</i>
Percent Complete	100%	Heat	Complete H.V.A.C.
Physical Percent Good	60%	Functional Percent Good	100%
Economic Percent Good	100%	Effective Age	29 yrs

Building Information - 3132 sq ft Multiple Residences (Commercial)

Floor Area	3,132 sq ft	Estimated TCV	<i>Not Available</i>
Occupancy	Multiple Residences	Class	C
Stories Above Ground	<i>Not Available</i>	Average Story Height	<i>Not Available</i>
Basement Wall Height	<i>Not Available</i>	Identical Units	<i>Not Available</i>
Year Built	1938	Year Remodeled	<i>No Data to Display</i>
Percent Complete	100%	Heat	Complete H.V.A.C.
Physical Percent Good	60%	Functional Percent Good	100%
Economic Percent Good	100%	Effective Age	29 yrs

Building Information - 5400 sq ft Multiple Residences (Commercial)

Floor Area	5,400 sq ft	Estimated TCV	<i>Not Available</i>
Occupancy	Multiple Residences	Class	C
Stories Above Ground	<i>Not Available</i>	Average Story Height	<i>Not Available</i>
Basement Wall Height	<i>Not Available</i>	Identical Units	<i>Not Available</i>
Year Built	1938	Year Remodeled	<i>No Data to Display</i>
Percent Complete	100%	Heat	Complete H.V.A.C.
Physical Percent Good	60%	Functional Percent Good	100%
Economic Percent Good	100%	Effective Age	29 yrs

Building Information - 6318 sq ft Multiple Residences (Commercial)

Floor Area	6,318 sq ft	Estimated TCV	<i>Not Available</i>
Occupancy	Multiple Residences	Class	C
Stories Above Ground	<i>Not Available</i>	Average Story Height	<i>Not Available</i>
Basement Wall Height	<i>Not Available</i>	Identical Units	<i>Not Available</i>
Year Built	1938	Year Remodeled	<i>No Data to Display</i>
Percent Complete	100%	Heat	Complete H.V.A.C.
Physical Percent Good	60%	Functional Percent Good	100%
Economic Percent Good	100%	Effective Age	29 yrs

Building Information - 5400 sq ft Multiple Residences (Commercial)

Floor Area	5,400 sq ft	Estimated TCV	<i>Not Available</i>
Occupancy	Multiple Residences	Class	C
Stories Above Ground	<i>Not Available</i>	Average Story Height	<i>Not Available</i>
Basement Wall Height	<i>Not Available</i>	Identical Units	<i>Not Available</i>
Year Built	1938	Year Remodeled	<i>No Data to Display</i>
Percent Complete	100%	Heat	Complete H.V.A.C.
Physical Percent Good	60%	Functional Percent Good	100%
Economic Percent Good	100%	Effective Age	29 yrs

Building Information - 11978 sq ft Multiple Residences (Commercial)

Floor Area	11,978 sq ft	Estimated TCV	<i>Not Available</i>
Occupancy	Multiple Residences	Class	C
Stories Above Ground	<i>Not Available</i>	Average Story Height	<i>Not Available</i>
Basement Wall Height	<i>Not Available</i>	Identical Units	<i>Not Available</i>
Year Built	1938	Year Remodeled	<i>No Data to Display</i>
Percent Complete	100%	Heat	Complete H.V.A.C.
Physical Percent Good	60%	Functional Percent Good	100%
Economic Percent Good	100%	Effective Age	29 yrs

Building Information - 2666 sq ft Multiple Residences (Commercial)

Floor Area	2,666 sq ft	Estimated TCV	<i>Not Available</i>
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Occupancy	Multiple Residences	Class	C
Stories Above Ground	Not Available	Average Story Height	Not Available
Basement Wall Height	Not Available	Identical Units	Not Available
Year Built	2000	Year Remodeled	No Data to Display
Percent Complete	100%	Heat	Complete H.V.A.C.
Physical Percent Good	60%	Functional Percent Good	100%
Economic Percent Good	100%	Effective Age	29 yrs

Building Information - 1783 sq ft Multiple Residences (Commercial)

Floor Area	1,783 sq ft	Estimated TCV	Not Available
Occupancy	Multiple Residences	Class	C
Stories Above Ground	Not Available	Average Story Height	Not Available
Basement Wall Height	Not Available	Identical Units	Not Available
Year Built	2000	Year Remodeled	No Data to Display
Percent Complete	100%	Heat	Complete H.V.A.C.
Physical Percent Good	60%	Functional Percent Good	100%
Economic Percent Good	100%	Effective Age	29 yrs

Building Information - 2077 sq ft Multiple Residences (Commercial)

Floor Area	2,077 sq ft	Estimated TCV	Not Available
Occupancy	Multiple Residences	Class	C
Stories Above Ground	Not Available	Average Story Height	Not Available
Basement Wall Height	Not Available	Identical Units	Not Available
Year Built	2000	Year Remodeled	No Data to Display
Percent Complete	100%	Heat	Complete H.V.A.C.
Physical Percent Good	60%	Functional Percent Good	100%
Economic Percent Good	100%	Effective Age	29 yrs

Building Information - 21544 sq ft Multiple Residences (Commercial)

Floor Area	21,544 sq ft	Estimated TCV	Not Available
Occupancy	Multiple Residences	Class	C
Stories Above Ground	Not Available	Average Story Height	Not Available
Basement Wall Height	Not Available	Identical Units	Not Available
Year Built	1938	Year Remodeled	No Data to Display
Percent Complete	100%	Heat	Complete H.V.A.C.
Physical Percent Good	60%	Functional Percent Good	100%
Economic Percent Good	100%	Effective Age	29 yrs

Building Information - 4216 sq ft Office Buildings (Commercial)

Floor Area	4,216 sq ft	Estimated TCV	Not Available
Occupancy	Office Buildings	Class	C
Stories Above Ground	Not Available	Average Story Height	Not Available
Basement Wall Height	Not Available	Identical Units	Not Available
Year Built	2000	Year Remodeled	No Data to Display
Percent Complete	100%	Heat	Complete H.V.A.C.
Physical Percent Good	59%	Functional Percent Good	100%
Economic Percent Good	100%	Effective Age	26 yrs

Building Information - 4217 sq ft Office Buildings (Commercial)

Floor Area	4,217 sq ft	Estimated TCV	Not Available
Occupancy	Office Buildings	Class	C
Stories Above Ground	Not Available	Average Story Height	Not Available
Basement Wall Height	Not Available	Identical Units	Not Available
Year Built	2000	Year Remodeled	No Data to Display
Percent Complete	100%	Heat	Complete H.V.A.C.
Physical Percent Good	59%	Functional Percent Good	100%
Economic Percent Good	100%	Effective Age	26 yrs

Building Information - 2856 sq ft Auditoriums (Commercial)

Floor Area	2,856 sq ft	Estimated TCV	Not Available
Occupancy	Auditoriums	Class	C
Stories Above Ground	Not Available	Average Story Height	Not Available
Basement Wall Height	Not Available	Identical Units	Not Available

Year Built	2000	Year Remodeled	<i>No Data to Display</i>
Percent Complete	100%	Heat	Complete H.V.A.C.
Physical Percent Good	59%	Functional Percent Good	100%
Economic Percent Good	100%	Effective Age	23 yrs

****Disclaimer:** BS&A Software provides BS&A Online as a way for municipalities to display information online and is not responsible for the content or accuracy of the data herein. This data is provided for reference only and WITHOUT WARRANTY of any kind, expressed or inferred. Please contact your local municipality if you believe there are errors in the data.

12019 E WARREN 48215 (Property Address)

Parcel Number: 21002688.



Item 1 of 2

[2 Images / 0 Sketches](#)**Property Owner: PARKSIDE HOUSING****Summary Information**

> Assessed Value: \$0 | Taxable Value: \$0

> [Property Tax information found](#)\$6.00 was charged to your Business Account for this record lookup. See [Account](#) for current balance.**Owner and Taxpayer Information****Owner**

PARKSIDE HOUSING
CITYOWNED ADMIN
12019 E WARREN
DETROIT, MI 48213-1234

Taxpayer

SEE OWNER INFORMATION

General Information for Tax Year 2023

Property Class	202 COMMERCIAL-VACANT	Unit	01 CITY OF DETROIT
School District	DETROIT CITY SCHOOL DISTRICT	Assessed Value	\$0
WARD#	21	Taxable Value	\$0
COUNCIL#	4	State Equalized Value	\$0
PP CODE#	<i>Not Available</i>	Date of Last Name Change	06/25/2003
RELATED #	<i>Not Available</i>	Notes	<i>Not Available</i>
Historical District	<i>Not Available</i>	Census Block Group	<i>Not Available</i>
HOPE#	<i>Not Available</i>	Exemption	<i>No Data to Display</i>

Principal Residence Exemption Information**Homestead Date** *No Data to Display*

Principal Residence Exemption	June 1st	Final
2023	0.0000 %	0.0000 %

Land Information

Zoning Code	R5	Total Acres	12.379
Land Value	\$0	Land Improvements	\$0
Renaissance Zone	No	Renaissance Zone Expiration Date	<i>No Data to Display</i>
ECF Neighborhood	<i>Not Available</i>	Mortgage Code	<i>No Data to Display</i>
Lot Dimensions/Comments	<i>Not Available</i>	Neighborhood Enterprise Zone	No

Lot(s)	Frontage	Depth
No lots found.		
Total Frontage: 0.00 ft		Average Depth: 0.00 ft

Legal Description

N WARREN E 1167 THRU 1205 1206 THRU 1241 1046 THRU 1060 ALSO ALL OF THE VAC ALLEYS ADJ SDLOTS ALSO E 1/2 VAC ANDERDON AVE ALL OF ALGONQUIN & SPRINGLE AVES ADJ SD LOTS ALSO S 28 FT OF FRANKFORT AVE ADJ SD LOTS & ALL OF VAC GRAY AVE ADJ SD LOTSJEFFERSON PARK LAND CO LTD SUB NO 2 L63 P13 PLATS, W C R 21/990 539,215 SQ FT 12.38 AC

Sale History

Sale Date	Sale Price	Instrument	Grantor	Grantee	Terms of Sale	Liber/Page
No sales history found.						

****Disclaimer:** BS&A Software provides BS&A Online as a way for municipalities to display information online and is not responsible for the content or accuracy of the data herein. This data is provided for reference only and WITHOUT WARRANTY of any kind, expressed or inferred. Please contact your local municipality if you believe there are errors in the data.

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12700 HARPER 48213 (Property Address)

Parcel Number: 21004019-53



Item 1 of 2

[2 Images / 0 Sketches](#)**Property Owner: DETROIT PARKS & RECREATION****Summary Information**

> Assessed Value: \$0 | Taxable Value: \$0

> Property Tax information found

\$6.00 was charged to your Business Account for this record lookup. See [Account](#) for current balance.**Owner and Taxpayer Information****Owner**

DETROIT PARKS & RECREATION **Taxpayer**
CITYOWNED ADMIN
115 ERSKINE
DETROIT, MI 48201

[SEE OWNER INFORMATION](#)**General Information for Tax Year 2023**

Property Class	202 COMMERCIAL-VACANT	Unit	01 CITY OF DETROIT
School District	DETROIT CITY SCHOOL DISTRICT	Assessed Value	\$0
WARD#	21	Taxable Value	\$0
COUNCIL#	4	State Equalized Value	\$0
PP CODE#	Not Available	Date of Last Name Change	07/17/2023
RELATED #	Not Available	Notes	Not Available
Historical District	Not Available	Census Block Group	Not Available
HOPE#	Not Available	Exemption	No Data to Display

Principal Residence Exemption Information**Homestead Date** *No Data to Display*

Principal Residence Exemption	June 1st	Final
2023	0.0000 %	0.0000 %

Land Information

Zoning Code	<i>No Data to Display</i>	Total Acres	205.380
Land Value	\$0	Land Improvements	\$0
Renaissance Zone	No	Renaissance Zone Expiration Date	<i>No Data to Display</i>
ECF Neighborhood	<i>Not Available</i>	Mortgage Code	<i>No Data to Display</i>
Lot Dimensions/Comments	<i>Not Available</i>	Neighborhood Enterprise Zone	No

Lot(s)	Frontage	Depth
No lots found.		
Total Frontage: 0.00 ft		Average Depth: 0.00 ft

Legal Description

S HARPER PT OF P CS 689,315 & 322 LYG W OF DICKERSON AVE BETW FORD EXPWAY AND FRANKFORT AVE ALSO PT OF P CS 386,392,687 & 638 & FRL SEC 25 T 1 S R 12 E LYG E OF CONNER AVE BETW OLGA ST & FRANKFORT AVE EXC PARKSIDE HOUSING PROJECT 21/-- 198.61 AC

Sale History

Sale Date	Sale Price	Instrument	Grantor	Grantee	Terms of Sale	Liber/Page
No sales history found.						

****Disclaimer:** BS&A Software provides BS&A Online as a way for municipalities to display information online and is not responsible for the content or accuracy of the data herein. This data is provided for reference only and WITHOUT WARRANTY of any kind, expressed or inferred. Please contact your local municipality if you believe there are errors in the data.

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5250 CONNER 48213 (Property Address)

Parcel Number: 21046202-11

No Images Found

Property Owner: City of Detroit P&DD, Care of DBA**Summary Information**

> Assessed Value: \$0 | Taxable Value: \$0

> Property Tax information found

\$6.00 was charged to your Business Account for this record lookup. See [Account](#) for current balance.**Owner and Taxpayer Information**

Owner	City of Detroit P&DD, Care of DBA CITY OF DETROIT P&DD, CARE OF DBA 5250 CONNER DETROIT, MI 48213	Taxpayer	SEE OWNER INFORMATION
--------------	--	-----------------	-----------------------

General Information for Tax Year 2023

Property Class	202 COMMERCIAL-VACANT	Unit	01 CITY OF DETROIT
School District	DETROIT CITY SCHOOL DISTRICT	Assessed Value	\$0
WARD#	21	Taxable Value	\$0
COUNCIL#	4	State Equalized Value	\$0
PP CODE#	Not Available	Date of Last Name Change	02/08/2019
RELATED #	Not Available	Notes	Not Available
Historical District	Not Available	Census Block Group	Not Available
HOPE#	Not Available	Exemption	No Data to Display

Principal Residence Exemption Information**Homestead Date** No Data to Display

Principal Residence Exemption	June 1st	Final
2023	0.0000 %	0.0000 %

Land Information

Zoning Code	No Data to Display	Total Acres	13.024
Land Value	\$0	Land Improvements	\$0
Renaissance Zone	No	Renaissance Zone Expiration Date	No Data to Display
ECF Neighborhood	Not Available	Mortgage Code	No Data to Display
Lot Dimensions/Comments	Not Available	Neighborhood Enterprise Zone	No

Lot(s)	Frontage	Depth
No lots found.		
Total Frontage: 0.00 ft		Average Depth: 0.00 ft

Legal Description

E CONNER ALL THAT PT OF 1 THRU 3 CORBYS SUB L21 P64 PLATS, W C R 21/437 ALSO PT OF P C 392 ALL DESC AS FOLS BEG AT N E COR CONNER AVE & FRANKFORT AVE TH N 55D W 956.34 FT ALG E LINE CONNER AVE TH N 45D 26M E 403.01 FT TH N 57D 57M 30S E 621.85 FT TH S 32D 27M 30S E 965.75 FT TH S 57D 45M 30S W 649.25 FT ALG N LINE FRANKFORT AVE TO P O B 21/--- 18.4573 AC

Sale History

Sale Date	Sale Price	Instrument	Grantor	Grantee	Terms of Sale	Liber/Page
No sales history found.						

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ATTACHMENT 3

USER QUESTIONNAIRE

Phase I Environmental Site Assessment USER QUESTIONNAIRE

This questionnaire outlines the user responsibilities discussed within the American Society of Testing & Materials (ASTM) Method E 1527-13 "Standard Practice for Conducting Environmental Site Assessments: Phase I Environmental Site Assessment Process." In order to qualify for the Landowner Liability Protections (LLPs) offered by the Business Liability Relief and Brownfields Revitalization Act of 2001, the user must provide the following information (if available) to Triterra. Failure to provide this information may result in a determination that "all appropriate inquiry" is not complete.

Please complete this questionnaire to the best of your knowledge. **Please provide any legal descriptions, surveys, title records, parcel maps, environmental reports, etc.**

This questionnaire was completed by: Ginosko Development Company on behalf of a TBD LDHA, LLC

Phone number: 248-513-4900 Email: nkeup@ginosko.com

Affiliation with the Property: Owner/Developer Years affiliated with the Property: 1

Property address: 5000/5250 Conner Street, Detroit, MI 48213

Property parcel number(s): 21046202-11, 21002687, 21002688

Reason for conducting the Phase I ESA: ☒ Purchase ☐ Sale ☐ Refinancing ☐ Other: _____

☐ Qualify for Landowner Liability Protections ☐ Qualify for Government Regulated Program

Purchasing Entity or Purchaser(s): TBD

Address: 41800 W. 11 Mile Road, Suite 209

Phone # and email: 248-513-4900 nkeup@ginosko.com

Lender, if applicable: _____

Address: _____

Phone # and email: _____

Have you completed a title search including environmental liens against the Property? ☐ Yes ☒ No

Are there any environmental liens or any Property land-use restrictions that are recorded under federal, tribal, state or local law? ☐ Yes ☒ No If yes, explain: _____

Do you have any specialized knowledge of the Property or proximate site operations? ☐ Yes ☒ No

Explain: _____

Does the purchase price of the property reasonably reflect the fair market value of the property?

☒ Yes ☐ No If No, is lower purchase price due to known or perceived contamination? ☐ Yes ☐ No

Is there any obvious presence of Property contamination? ☐ Yes ☒ No ☐ Unknown Explain: _____

Do you have any knowledge of aboveground/underground storage tanks, petroleum and/or hazardous substance releases, contamination, environmental cleanups, specific chemicals, etc. on the Property?

☐ Yes ☒ No Explain: _____

Ginosko Development Company is in receipt of the historical Phase I and II environmental site assessments prepared for the Seller (Detroit Housing Commission and its affiliates)

Do sites adjoining the Property have any known environmental issues? ☐ Yes ☐ No ☒ Unknown

Explain: _____

Identify utilities available to the Property and indicate the provider:

☐ Electric: DTE Energy

☐ Municipal Water: City of Detroit Water and Sewerage Dept.

☐ Gas: DTE Energy

☐ Municipal Solid Waste: City of Detroit Water and Sewerage Dept.

☐ Sanitary Sewer: _____

Private Well? _____

☐ Storm Sewer: _____

Private Septic? _____

Any other pertinent information: _____

Please sign and date below:

Signature



Nathan Keup,
Ginosko Development Company,
on behalf of a TBD LDHA, LLC

Date

04/22/2024



ATTACHMENT 4

ENVIRONMENTAL RECORDS

ATTACHMENT 5
HISTORICAL RECORDS



23-3579

5250 Conner Street

Detroit, MI 48213

Inquiry Number: 7506222.8

November 27, 2023

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

11/27/23

Site Name:

23-3579
5250 Conner Street
Detroit, MI 48213
EDR Inquiry # 7506222.8

Client Name:

Triterra
1305 S. Washington Avenue Suite 102
Lansing, MI 48910
Contact: Connor Zook



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2020	1"=500'	Flight Year: 2020	USDA/NAIP
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1999	1"=500'	Acquisition Date: March 28, 1999	USGS/DOQQ
1997	1"=500'	Flight Date: May 04, 1997	DTE
1987	1"=500'	Flight Date: June 17, 1987	USDA
1981	1"=500'	Flight Date: October 17, 1981	DTE
1973	1"=500'	Flight Date: July 17, 1973	USDA
1967	1"=500'	Flight Date: May 16, 1967	DTE
1961	1"=500'	Flight Date: May 30, 1961	DTE
1956	1"=500'	Flight Date: April 13, 1956	DTE
1952	1"=500'	Flight Date: August 17, 1952	DTE
1949	1"=500'	Flight Date: April 28, 1949	DTE
1937	1"=500'	Flight Date: July 23, 1937	USDA

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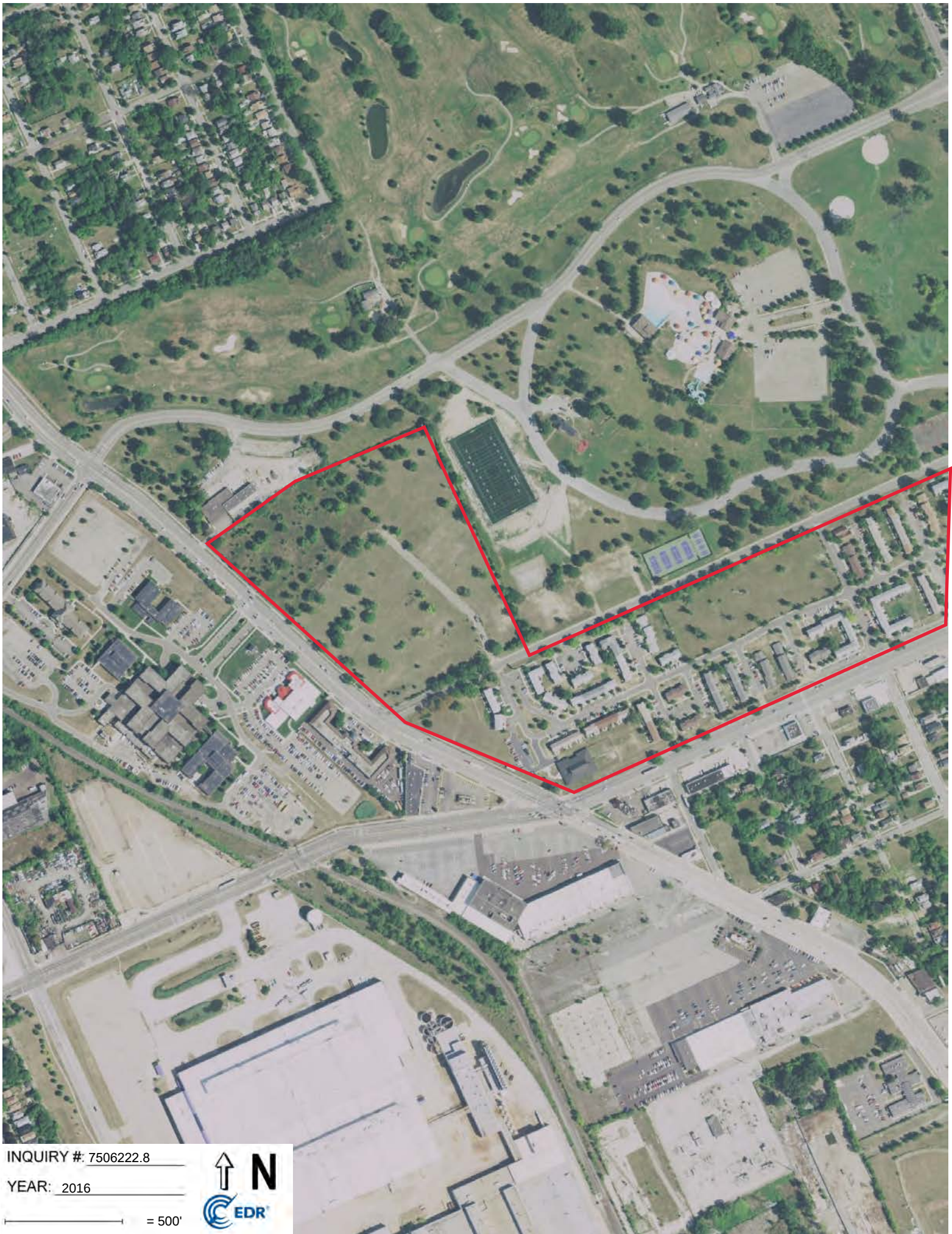
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INQUIRY #: 7506222.8

YEAR: 2016

= 500'





INQUIRY #: 7506222.8

YEAR: 2012

1" = 500'





INQUIRY #: 7506222.8

YEAR: 2009

— = 500'





INQUIRY #: 7506222.8

YEAR: 2005

— = 500'



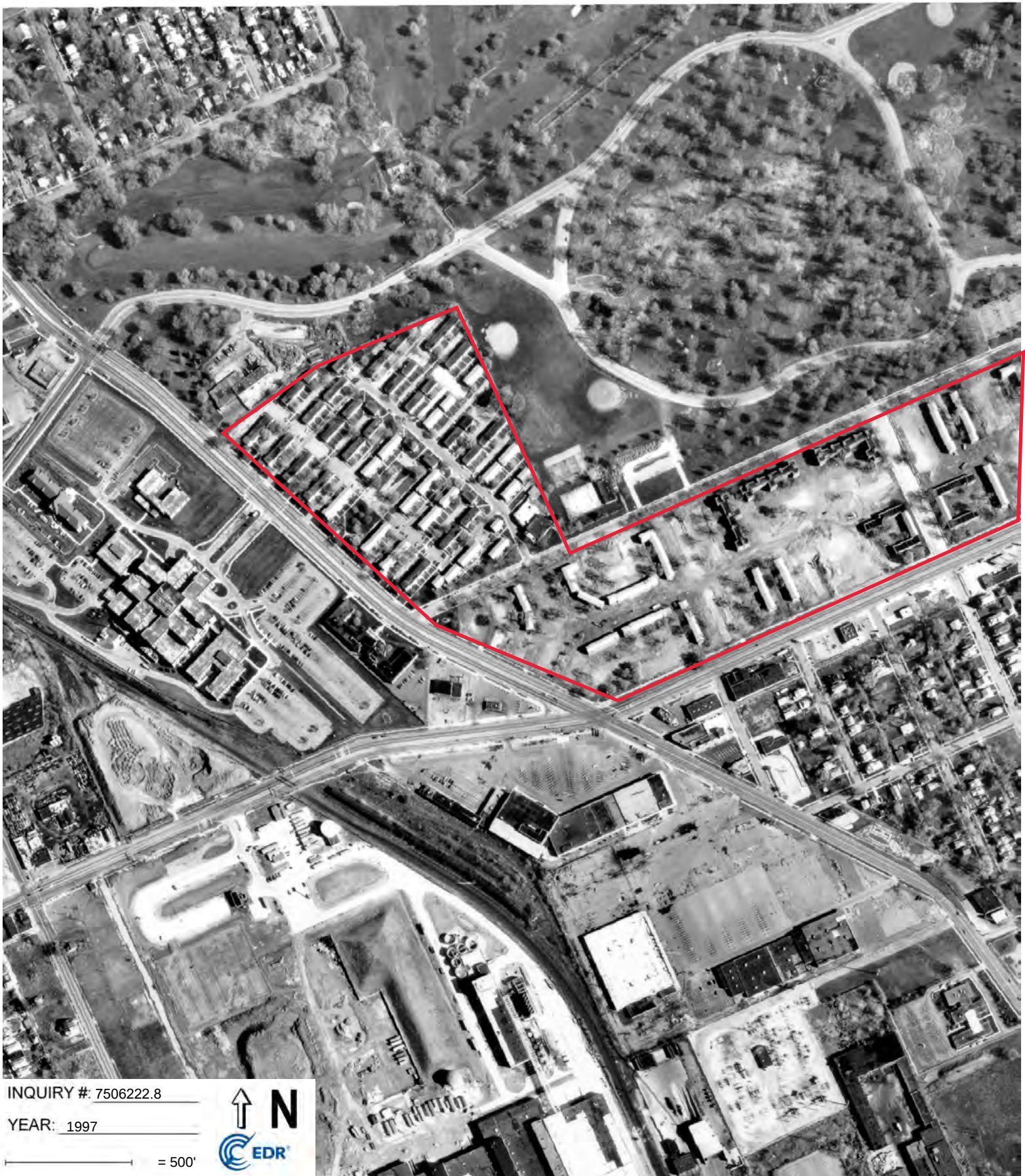


INQUIRY #: 7506222.8

YEAR: 1999

— = 500'





INQUIRY #: 7506222.8

YEAR: 1997

1" = 500'





INQUIRY #: 7506222.8

YEAR: 1987

— = 500'

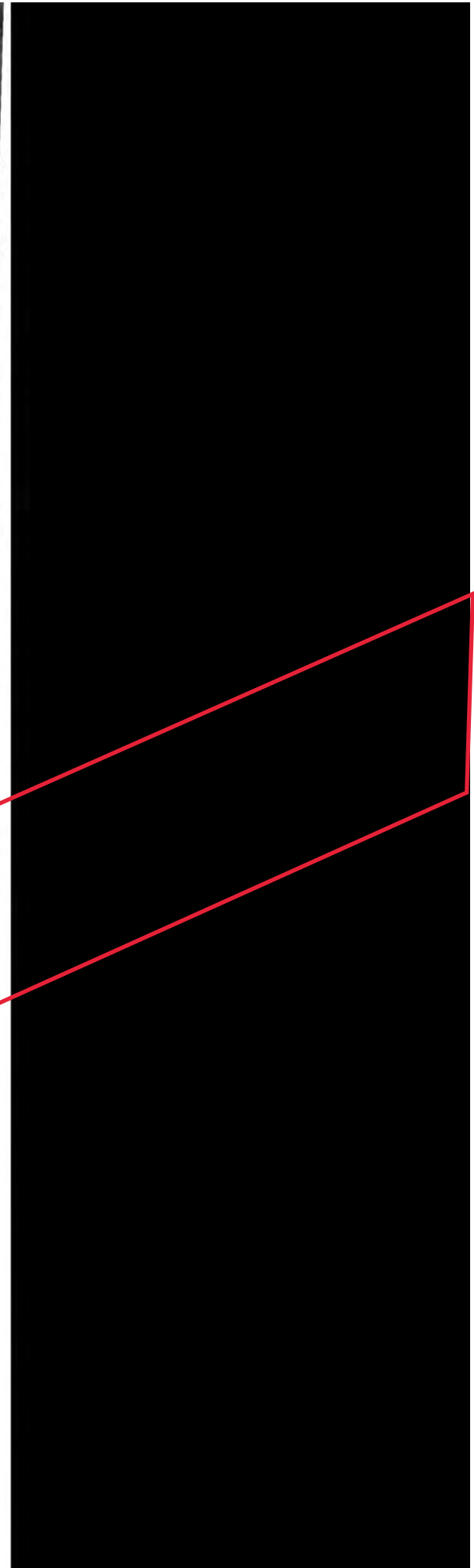




INQUIRY #: 7506222.8

YEAR: 1981

— = 500'



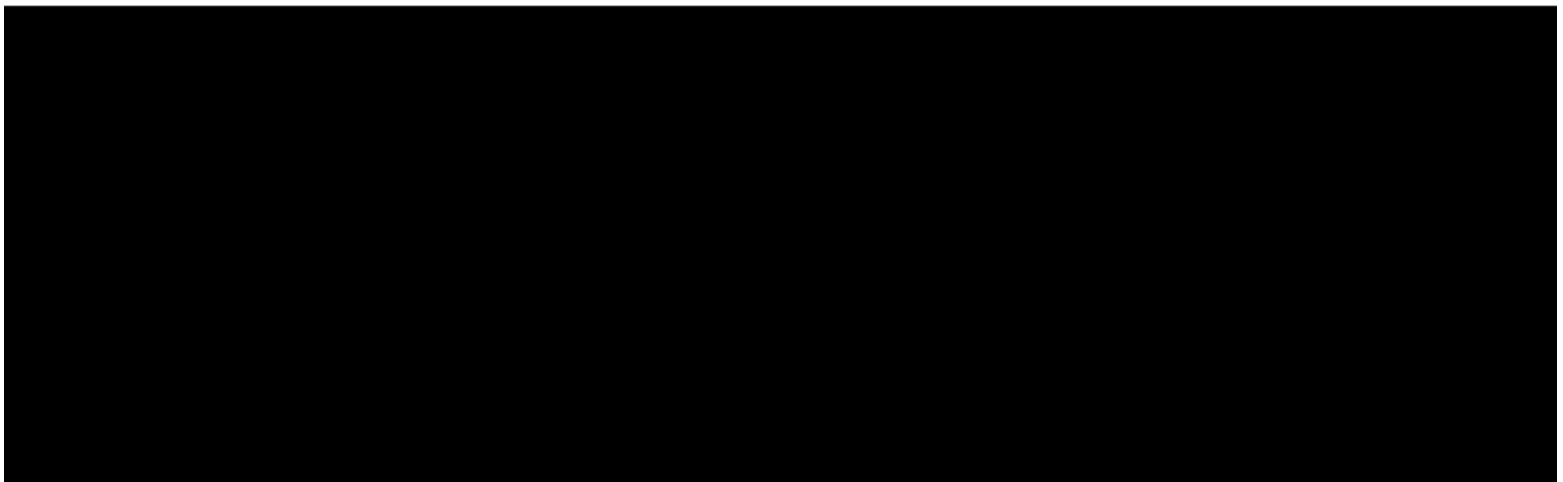


INQUIRY #: 7506222.8

YEAR: 1973

— = 500'





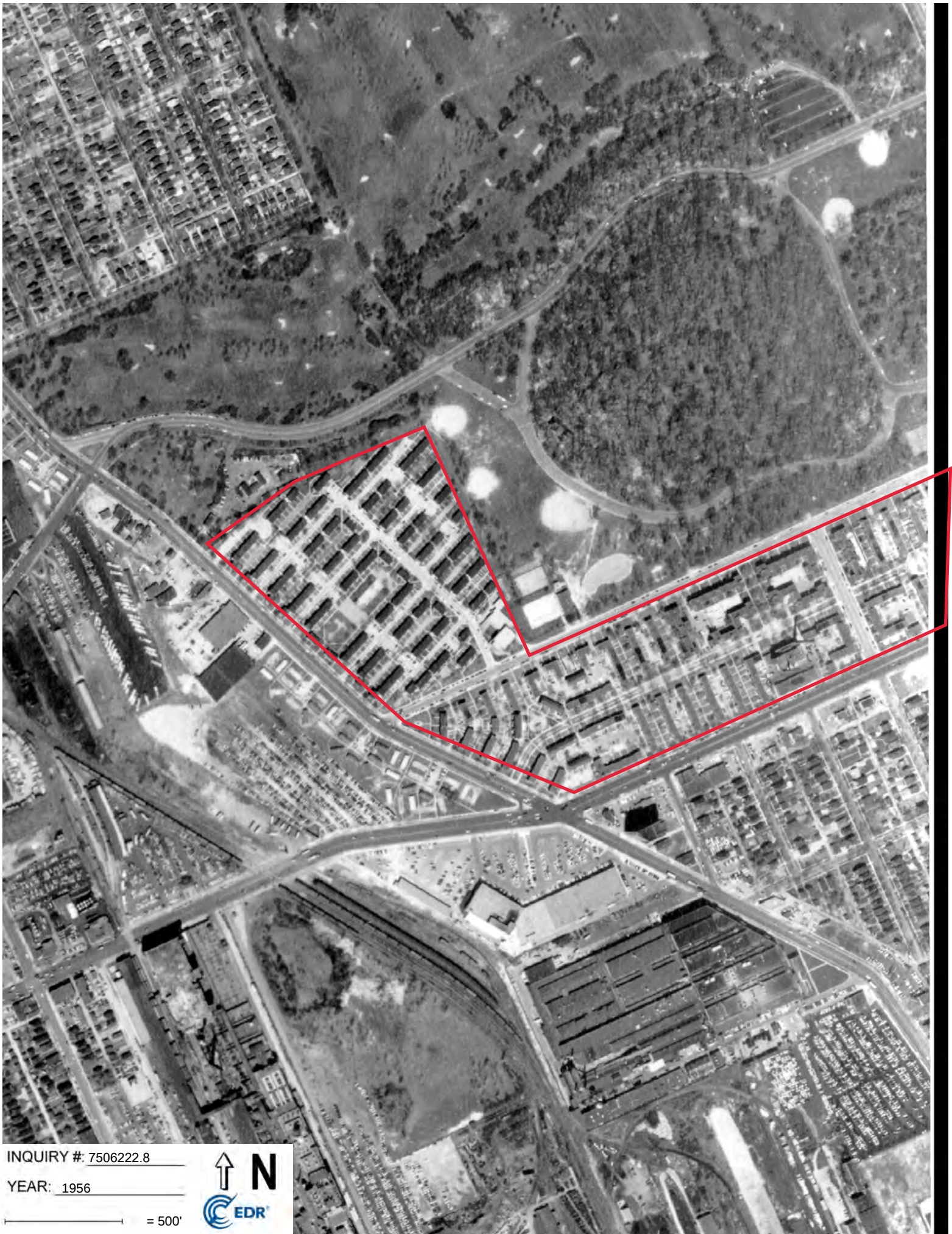


INQUIRY #: 7506222.8

YEAR: 1961

— = 500'





INQUIRY #: 7506222.8

YEAR: 1956

— = 500'





INQUIRY #: 7506222.8

YEAR: 1952

— = 500'





INQUIRY #: 7506222.8

YEAR: 1949

— = 500'





INQUIRY #: 7506222.8

YEAR: 1937

— = 500'



5250 Conner Street

5250 Conner Street
Detroit, MI 48213

Inquiry Number: 7504356.5
November 28, 2023

The EDR-City Directory Image Report

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.

Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available business directory data at approximately five year intervals.

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2020	☒	☒	EDR Digital Archive
2017	☒	☒	Cole Information
2014	☒	☒	Cole Information
2010	☒	☒	Cole Information
2005	☒	☒	Cole Information
2000	☒	☒	Cole Information
1995	☒	☒	Cole Information
1992	☒	☒	Cole Information
1987	☒	☒	Bresser's Cross-Index Directory Company
1982	☒	☒	Bresser's Cross-Index Directory Company
1977	☒	☒	Bresser's Cross-Index Directory Company
1972	☒	☒	Bresser's Cross-Index Directory Company
1967	☒	☒	Bresser's Cross-Index Directory Company
1962	☒	☒	Bresser's Cross-Index Directory Company
1957	☒	☒	Bresser's Cross-Index Directory Company
1954	☒	☒	Polk's City Directory
1940	☒	☒	Polk's City Directory
1935	☒	☒	Polk's City Directory
1931	☒	☒	Polk's City Directory
1926	☒	☒	Polk's City Directory
1921	☐	☐	Polk's City Directory
1916	☐	☐	Polk's City Directory
1911	☐	☐	Polk's City Directory

EXECUTIVE SUMMARY

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
-------------	----------------------	---------------------	---------------

FINDINGS

TARGET PROPERTY STREET

5250 Conner Street
Detroit, MI 48213

<u>Year</u>	<u>CD Image</u>	<u>Source</u>	
<u>CONNER ST</u>			
2020	pg A2	EDR Digital Archive	
2017	pg A6	Cole Information	
2014	pg A11	Cole Information	
2010	pg A14	Cole Information	
2005	pg A18	Cole Information	
2000	pg A22	Cole Information	
1995	pg A25	Cole Information	
1992	pg A32	Cole Information	
1987	pg A36	Bresser's Cross-Index Directory Company	
1982	pg A38	Bresser's Cross-Index Directory Company	
1977	pg A40	Bresser's Cross-Index Directory Company	
1972	pg A42	Bresser's Cross-Index Directory Company	
1972	pg A43	Bresser's Cross-Index Directory Company	
1967	pg A45	Bresser's Cross-Index Directory Company	
1962	pg A47	Bresser's Cross-Index Directory Company	
1957	pg A49	Bresser's Cross-Index Directory Company	
1954	pg A51	Polk's City Directory	
1940	pg A54	Polk's City Directory	
1935	pg A56	Polk's City Directory	
1931	pg A59	Polk's City Directory	
1931	pg A60	Polk's City Directory	
1926	pg A62	Polk's City Directory	
1921	-	Polk's City Directory	Target and Adjoining not listed in Source
1916	-	Polk's City Directory	Target and Adjoining not listed in Source
1911	-	Polk's City Directory	Street not listed in Source

FINDINGS

CROSS STREETS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

E WARREN AVE

2020	pg. A5	EDR Digital Archive	
2017	pg. A9	Cole Information	
2014	pg. A13	Cole Information	
2010	pg. A17	Cole Information	
2005	pg. A21	Cole Information	
2000	pg. A24	Cole Information	
1995	pg. A30	Cole Information	
1992	pg. A35	Cole Information	
1987	pg. A37	Bresser's Cross-Index Directory Company	
1982	pg. A39	Bresser's Cross-Index Directory Company	
1977	pg. A41	Bresser's Cross-Index Directory Company	
1972	pg. A44	Bresser's Cross-Index Directory Company	
1967	pg. A46	Bresser's Cross-Index Directory Company	
1962	pg. A48	Bresser's Cross-Index Directory Company	
1957	pg. A50	Bresser's Cross-Index Directory Company	
1954	pg. A52	Polk's City Directory	
1954	pg. A53	Polk's City Directory	
1940	pg. A55	Polk's City Directory	
1935	pg. A57	Polk's City Directory	
1935	pg. A58	Polk's City Directory	
1931	pg. A61	Polk's City Directory	
1926	pg. A63	Polk's City Directory	
1921	-	Polk's City Directory	Target and Adjoining not listed in Source
1916	-	Polk's City Directory	Target and Adjoining not listed in Source
1911	-	Polk's City Directory	Target and Adjoining not listed in Source

City Directory Images



23-3579

5250 Conner Street

Detroit, MI 48213

Inquiry Number: 7506222.3

November 28, 2023

Certified Sanborn® Map Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

11/28/23

Site Name:

23-3579
5250 Conner Street
Detroit, MI 48213
EDR Inquiry # 7506222.3

Client Name:

Triterra
1305 S. Washington Avenue Suite 102
Lansing, MI 48910
Contact: Connor Zook



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Certified Sanborn Results:

Certification # C60E-4428-AE78

PO # NA

Project 23-3579

Maps Provided:

2002	1950
1996	1941
1991	1929
1989	
1978	
1962	
1957	
1952	



Sanborn® Library search results

Certification #: C60E-4428-AE78

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☒ Library of Congress
- ☒ University Publications of America
- ☒ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



2002 Source Sheets



Volume 19, Sheet 97
2002



Volume 19, Sheet 49
2002

1996 Source Sheets



Volume 19, Sheet 49
1996

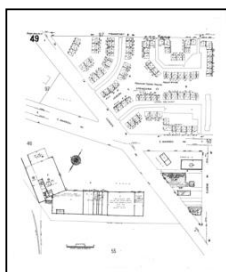


Volume 19, Sheet 97
1996

1991 Source Sheets



Volume 19, Sheet 97
1991



Volume 19, Sheet 49
1991

1989 Source Sheets



Volume 19, Sheet 49
1989



Volume 19, Sheet 97
1989



Volume 19, Sheet 97
1989



Volume 19, Sheet 49
1989

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



1978 Source Sheets



Volume 19, Sheet 49
1978



Volume 19, Sheet 97
1978

1962 Source Sheets



Volume 19, Sheet 97
1962



Volume 19, Sheet 49
1962

1957 Source Sheets



Volume 19, Sheet 49
1957



Volume 19, Sheet 97
1957

1952 Source Sheets



Volume 19, Sheet 97
1952



Volume 19, Sheet 49
1952

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



1950 Source Sheets

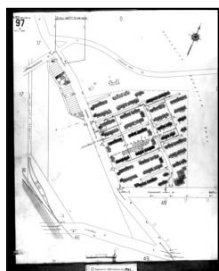


Volume 19, Sheet 97
1950

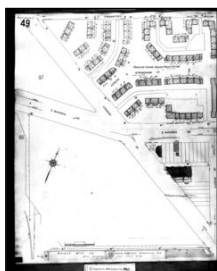


Volume 19, Sheet 49
1950

1941 Source Sheets

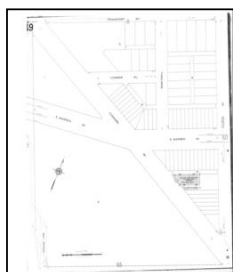


Volume 19, Sheet 97
1941



Volume 19, Sheet 49
1941

1929 Source Sheets



Volume 19, Sheet 49
1929



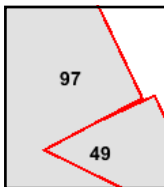
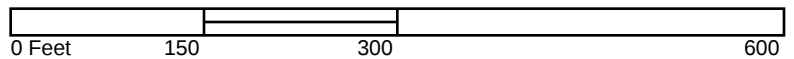
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 Client: Triterra
 EDR Inquiry: 7506222.3
 Order Date: 11/28/2023
 Certification #: C60E-4428-AE78
 Copyright: 2002

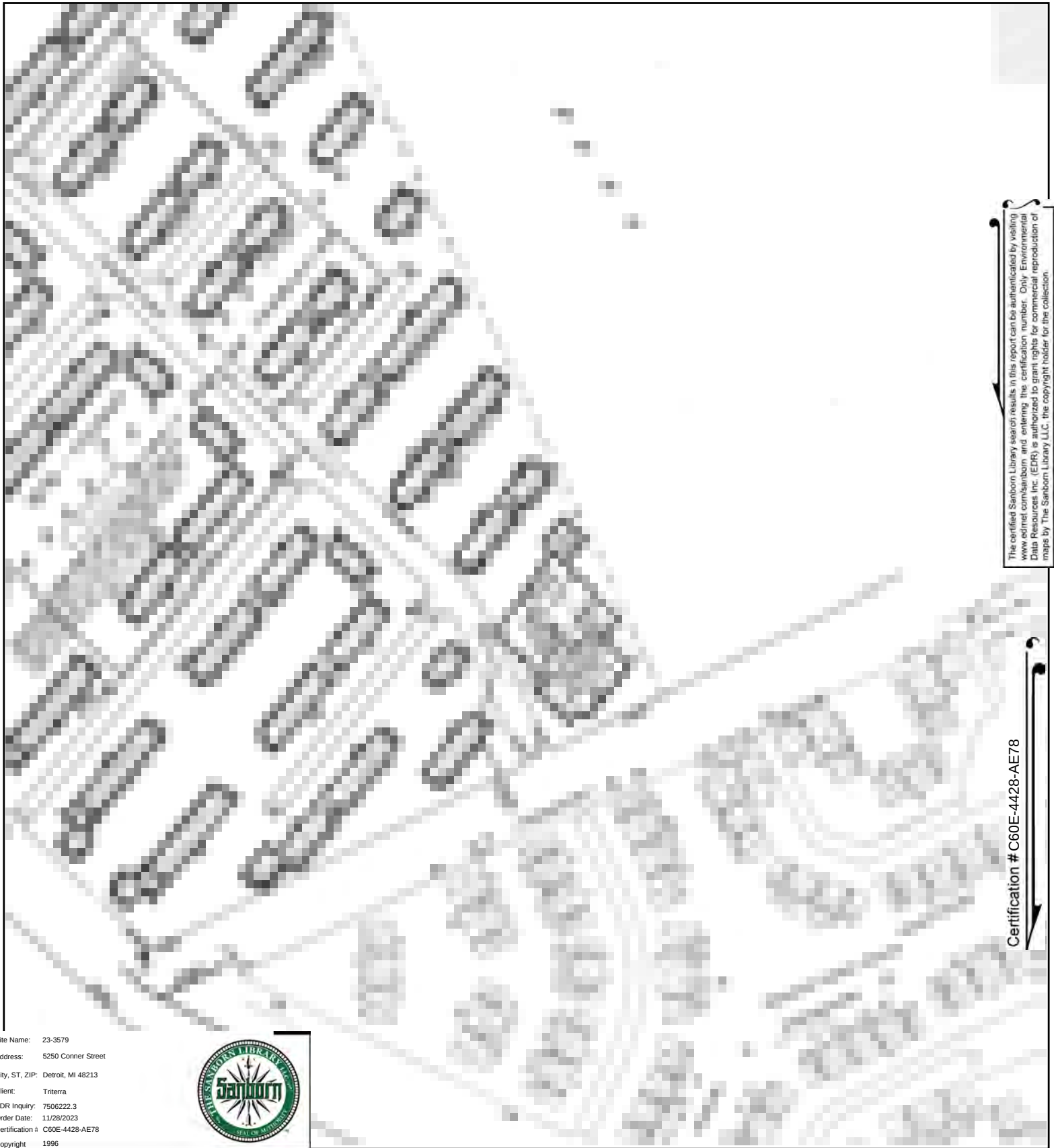


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 Outlined areas indicate map sheets within the collection.



Volume 19, Sheet 49
 Volume 19, Sheet 97





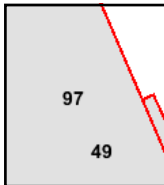
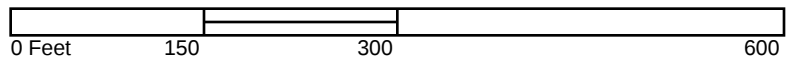
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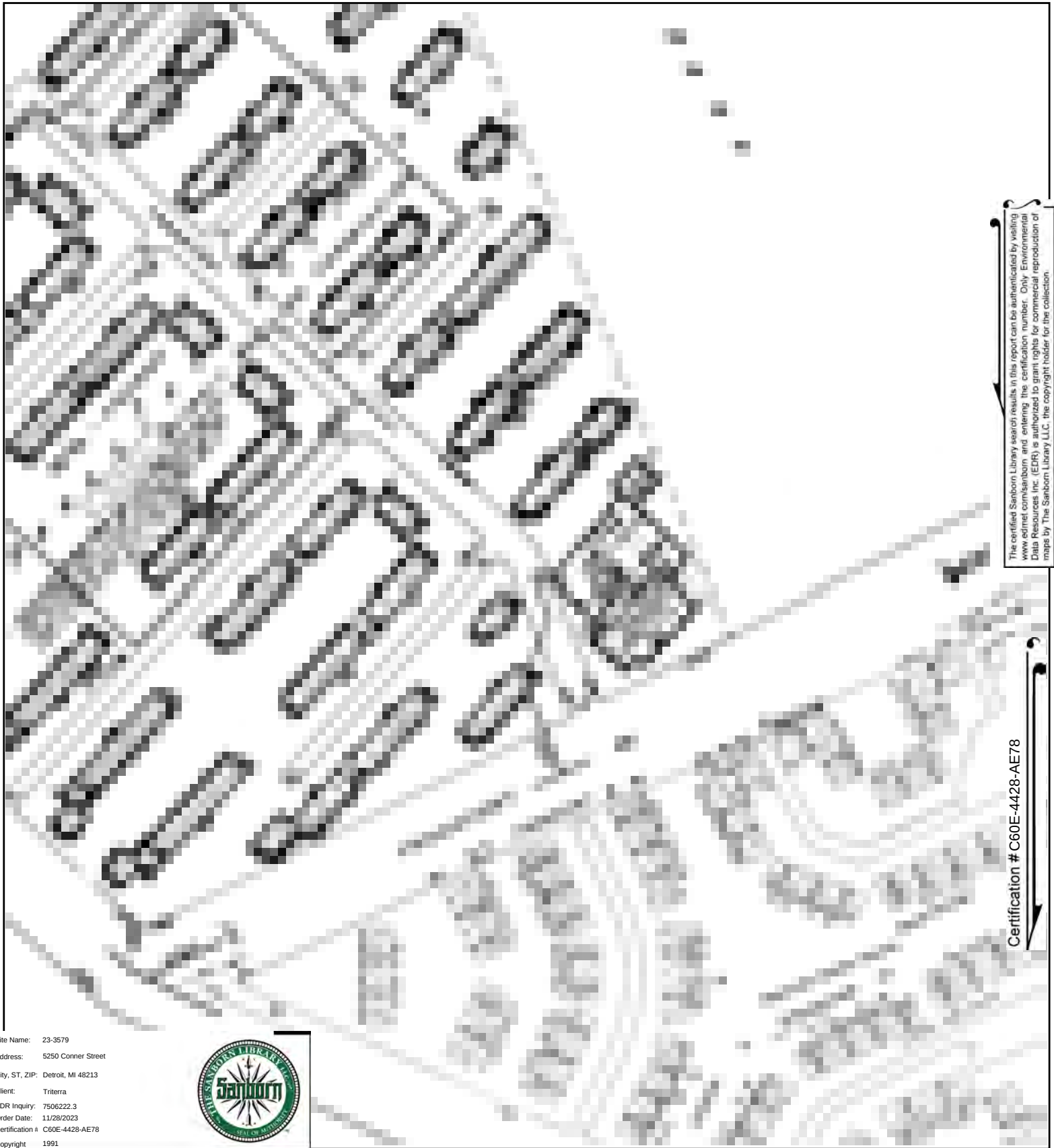


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Volume 19, Sheet 97
 Volume 19, Sheet 49





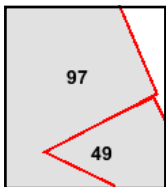
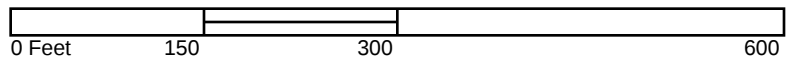
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 Copyright: 1991

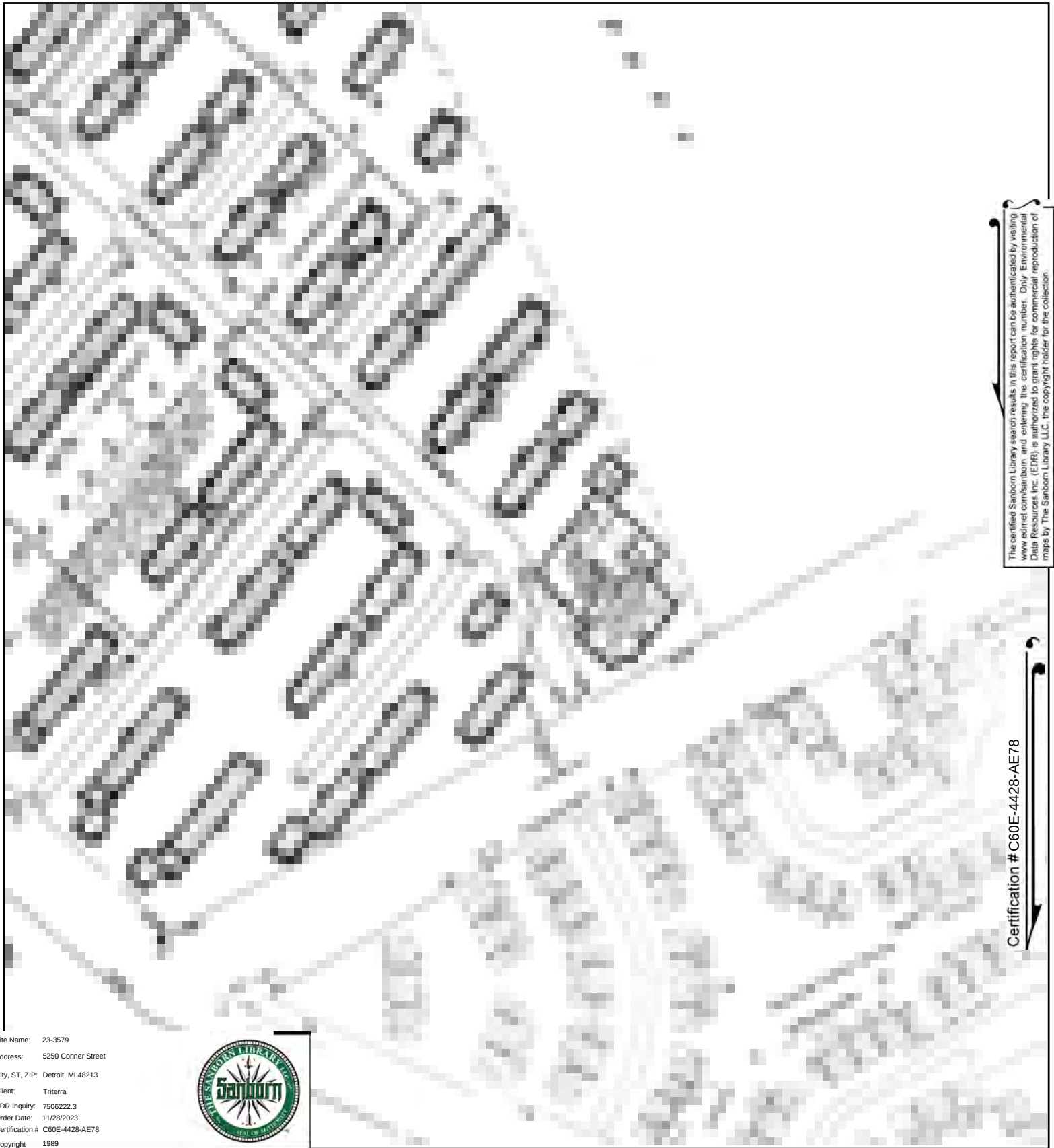


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 Volume 19, Sheet 97





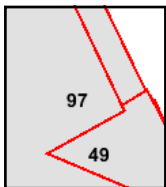
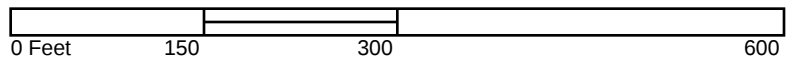
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 Order Date: 11/28/2023
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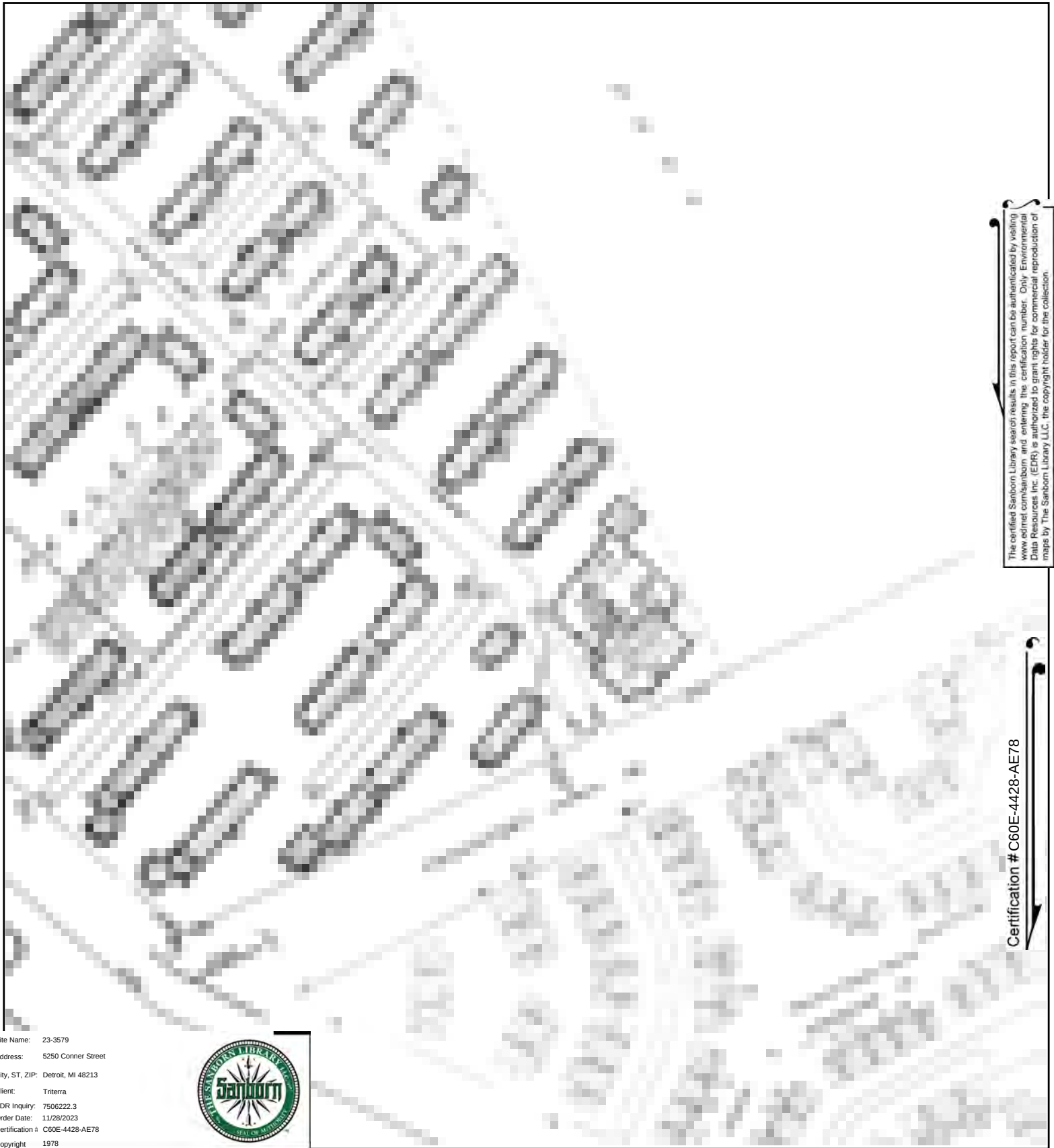


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Volume 19, Sheet 49
 Volume 19, Sheet 97
 Volume 19, Sheet 97
 Volume 19, Sheet 49





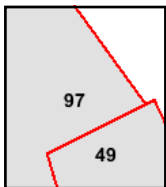
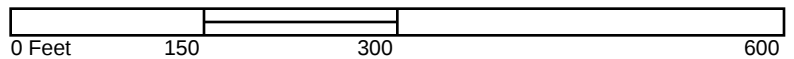
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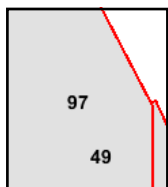
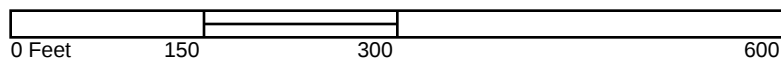
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 Copyright: 1962



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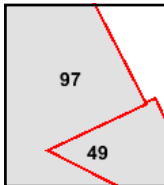
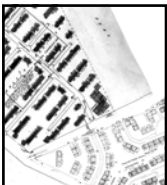
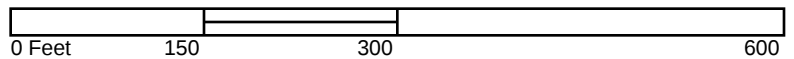
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 Certification #: C60E-4428-AE78
 Copyright: 1957



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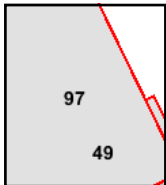
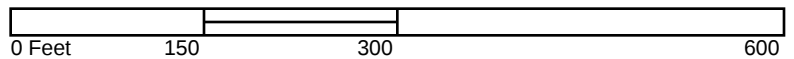
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 Certification #: C60E-4428-AE78
 Copyright: 1952

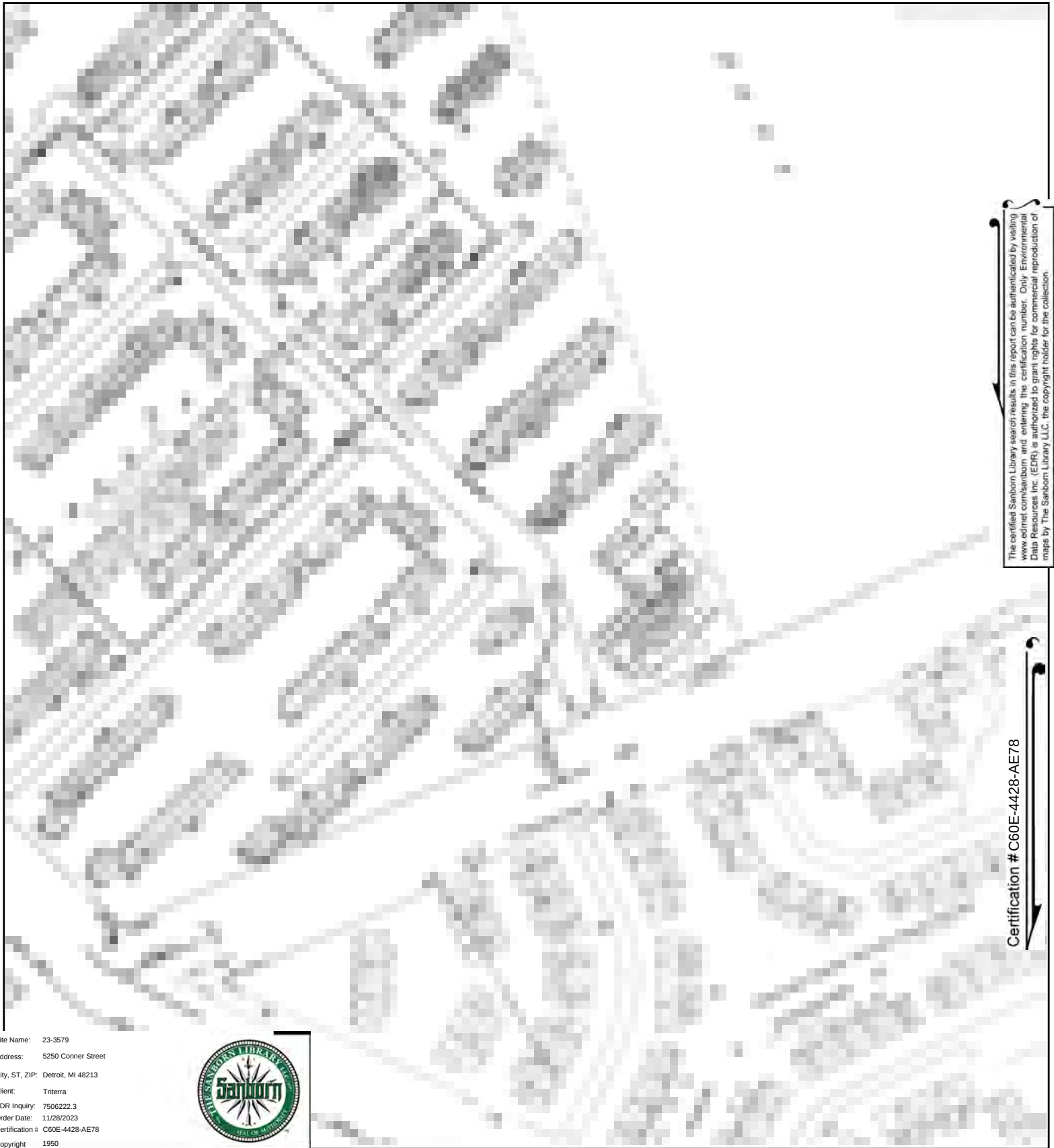


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Volume 19, Sheet 49
 Volume 19, Sheet 97





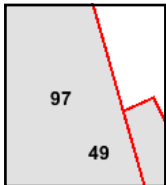
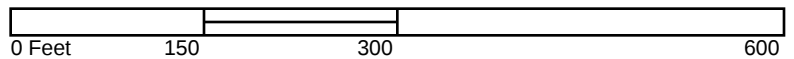
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 Order Date: 11/28/2023
 Certification # C60E-4428-AE78
 Copyright 1950



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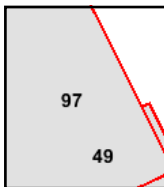
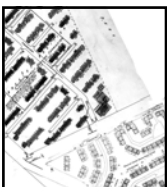
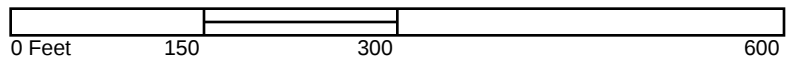
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 Certification #: C60E-4428-AE78
 Copyright: 1941



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Volume 19, Sheet 49
 Volume 19, Sheet 97





12001 E Warren Avenue

12001 E Warren Avenue

Detroit, MI 48213

Inquiry Number: 7597264.1

March 19, 2024

Certified Sanborn® Map Report



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Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

03/19/24

Site Name:

12001 E Warren Avenue
12001 E Warren Avenue
Detroit, MI 48213
EDR Inquiry # 7597264.1

Client Name:

Triterra
1305 S. Washington Avenue Suite 102
Lansing, MI 48910
Contact: Alexis Bowen



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The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

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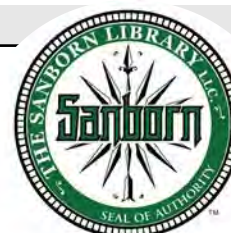
Certification # 96EC-4615-AE74

PO # NA

Project NA

Maps Provided:

2002	1950
1996	1941
1991	1929
1989	
1978	
1962	
1957	
1952	



Sanborn® Library search results

Certification #: 96EC-4615-AE74

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☒ Library of Congress
- ☒ University Publications of America
- ☒ EDR Private Collection

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2002 Source Sheets



Volume 19, Sheet 50
2002



Volume 19, Sheet 49
2002

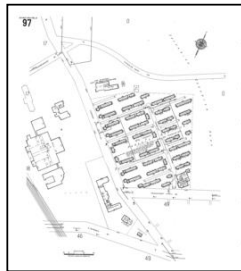


Volume 19, Sheet 97
2002

1996 Source Sheets



Volume 19, Sheet 49
1996



Volume 19, Sheet 97
1996



Volume 19, Sheet 50
1996

1991 Source Sheets



Volume 19, Sheet 50
1991



Volume 19, Sheet 49
1991



Volume 19, Sheet 97
1991

1989 Source Sheets



Volume 19, Sheet 97
1989



Volume 19, Sheet 49
1989



Volume 19, Sheet 49
1989



Volume 19, Sheet 97
1989



Volume 19, Sheet 50
1989

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



1989 Source Sheets



Volume 19, Sheet 50
1989

1978 Source Sheets



Volume 19, Sheet 50
1978



Volume 19, Sheet 49
1978

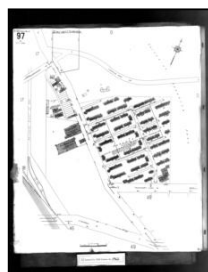


Volume 19, Sheet 97
1978

1962 Source Sheets



Volume 19, Sheet 49
1962



Volume 19, Sheet 97
1962



Volume 19, Sheet 50
1962

1957 Source Sheets



Volume 19, Sheet 50
1957



Volume 19, Sheet 49
1957



Volume 19, Sheet 97
1957

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



1952 Source Sheets



Volume 19, Sheet 97
1952



Volume 19, Sheet 49
1952



Volume 19, Sheet 50
1952

1950 Source Sheets



Volume 19, Sheet 50
1950

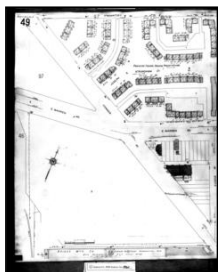


Volume 19, Sheet 49
1950



Volume 19, Sheet 97
1950

1941 Source Sheets



Volume 19, Sheet 49
1941



Volume 19, Sheet 97
1941



Volume 19, Sheet 50
1941

1929 Source Sheets



Volume 19, Sheet 50
1929



Volume 19, Sheet 49
1929

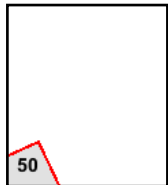
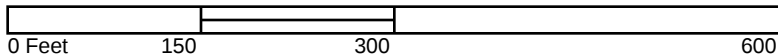
Site Name: 12001 E Warren Avenue
 Address: 12001 E Warren Avenue
 City, ST, ZIP: Detroit, MI 48213
 Client: Triterra
 EDR Inquiry: 7597264.1
 Order Date: 03/19/2024
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 Volume 19, Sheet 50



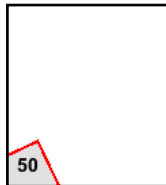
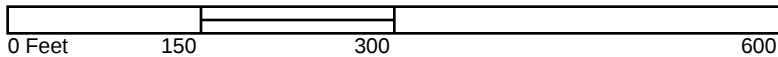
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 Volume 19, Sheet 97
 Volume 19, Sheet 49



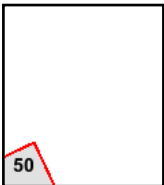
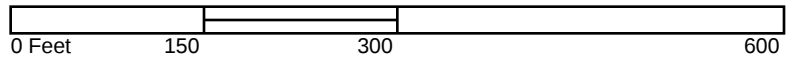
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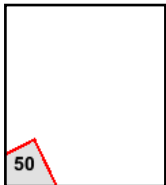
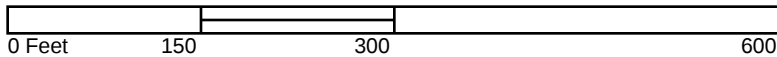
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Volume 19, Sheet 50
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 Volume 19, Sheet 97
 Volume 19, Sheet 49
 Volume 19, Sheet 49
 Volume 19, Sheet 97



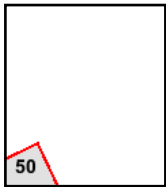
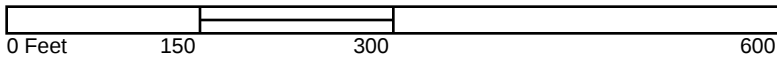
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 Address: 12001 E Warren Avenue
 City, ST, ZIP: Detroit, MI 48213
 Client: Triterra
 EDR Inquiry: 7597264.1
 Order Date: 03/19/2024
 Certification #: 96EC-4615-AE74
 Copyright: 1978



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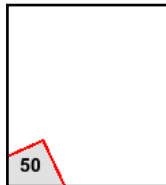
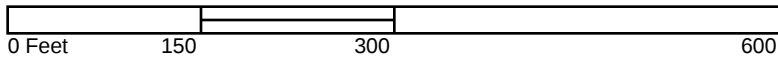
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 Client: Triterra
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 Order Date: 03/19/2024
 Certification #: 96EC-4615-AE74
 Copyright: 1962



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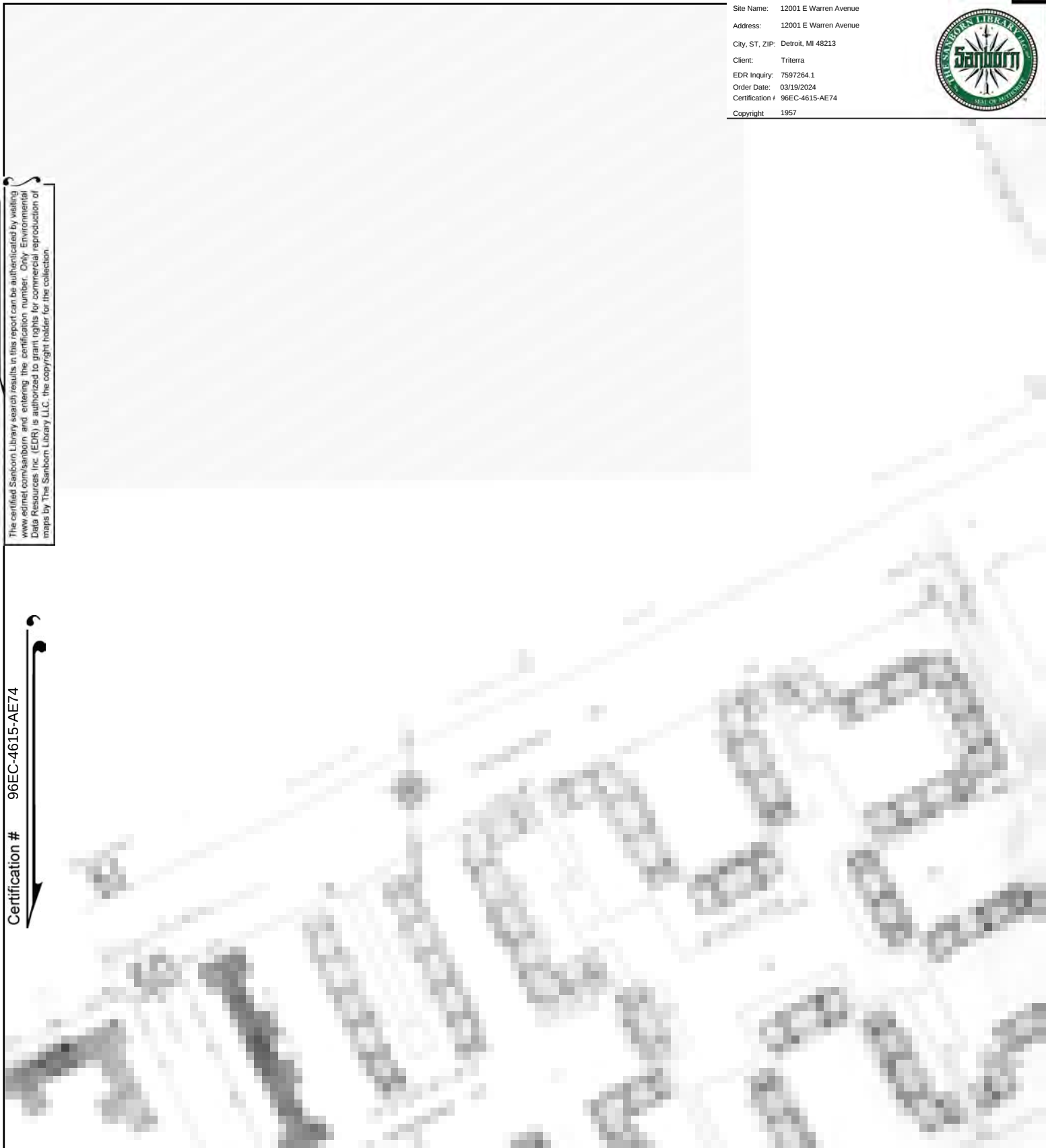


Site Name: 12001 E Warren Avenue
 Address: 12001 E Warren Avenue
 City, ST, ZIP: Detroit, MI 48213
 Client: Triterra
 EDR Inquiry: 7597264.1
 Order Date: 03/19/2024
 Certification #: 96EC-4615-AE74
 Copyright: 1957

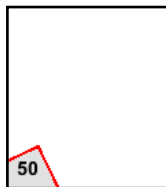
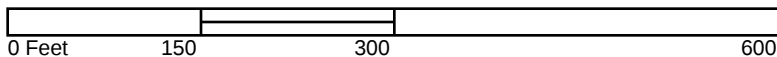


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Volume 19, Sheet 97
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 Volume 19, Sheet 50





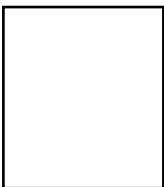
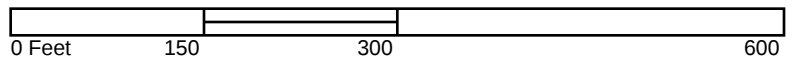
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Certification #96EC-4615-AE74

Site Name: 12001 E Warren Avenue
 Address: 12001 E Warren Avenue
 City, ST, ZIP: Detroit, MI 48213
 Client: Triterra
 EDR Inquiry: 7597264.1
 Order Date: 03/19/2024
 Certification #: 96EC-4615-AE74
 Copyright: 1929



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Volume 19, Sheet 49
 Volume 19, Sheet 50





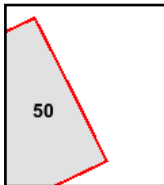
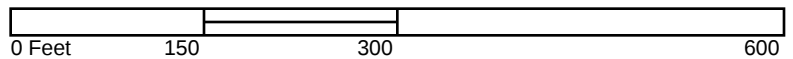
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 City, ST, ZIP: Detroit, MI 48213
 Client: Triterra
 EDR Inquiry: 7597264.1
 Order Date: 03/19/2024
 Certification #: 96EC-4615-AE74
 Copyright: 1941



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 Volume 19, Sheet 49
 Volume 19, Sheet 97





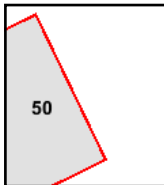
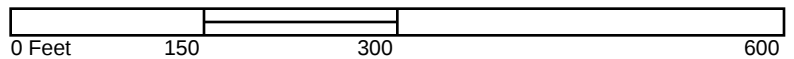
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 EDR Inquiry: 7597264.1
 Order Date: 03/19/2024
 Certification #: 96EC-4615-AE74
 Copyright: 1929



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Volume 19, Sheet 49
 Volume 19, Sheet 50



ATTACHMENT 6
INTERVIEW DOCUMENTATION



1305 S. Washington Avenue, Suite 102
Lansing, Michigan 48910
517-702-0470
Fax 517-702-0477
www.triterra.us

Phase I Environmental Site Assessment OWNER/OCCUPANT/SELLER QUESTIONNAIRE

Please complete this questionnaire to the best of your knowledge. **Please provide any legal descriptions, surveys, title records, parcel maps, environmental reports, etc.**

This questionnaire was completed by: _____

Phone number: _____ Email: _____

Affiliation with the Property: _____ Years affiliated with the Property: _____

Property address: _____

Property parcel number(s): _____

Describe Property structures, construction dates, and sizes: _____

List the Property's historic and current use and current occupants: _____

Has the *Property or any adjoining site* been used as a gasoline station, vehicle repair facility, commercial printing facility, metal stamping/plating facility, dry cleaners, photo developing laboratory, junkyard, landfill, waste treatment or disposal, processing, recycling facility, or for any other manufacturing/industrial/ light industrial purpose that might use hazardous substances?

☐ Yes ☐ No ☐ Unknown ☐ Currently ☐ Historically Explain: _____

Have there been aboveground/underground storage tanks, drums, or petroleum products/hazardous substances on the Property? ☐ Yes ☐ No ☐ Unknown Explain: _____

Have there been any chemical releases, contamination, environmental cleanups, etc. on the Property?

☐ Yes ☐ No ☐ Unknown Explain: _____

Have there been any environmental site assessments of the Property that indicated the presence of contamination (Phase I ESA, Phase II ESA, Baseline Environmental Assessments, UST Removal reports)? ☐ Yes ☐ No ☐ Unknown Explain: _____



Have any waste materials, tires, automotive or industrial batteries, pesticides, paints, or other hazardous substances been stored on, buried, dumped, or used at the property?

☐ Yes ☐ No ☐ Unknown Explain: _____

Has fill dirt or other raw materials of unknown origin been brought onto the Property?

☐ Yes ☐ No ☐ Unknown Identify the date and location of fill: _____

Is there any obvious presence of Property contamination? (stains, spills, leaks, odors, etc.) ☐ Yes ☐ No

Explain: _____

Do sites adjoining the Property have known environmental issues? ☐ Yes ☐ No ☐ Unknown

Explain: _____

Identify utilities available to the Property and **indicate the provider:**

☐ Electric: _____ Refer to other project documentation.	☐ Municipal Water: _____
☐ Gas: _____	☐ Municipal Solid Waste: _____
☐ Sanitary Sewer: _____	Private Well? _____
☐ Storm Sewer: _____	Private Septic? _____

Any other pertinent information: _____

Please sign and date below:

Signature

Date



ATTACHMENT 7

PROFESSIONAL QUALIFICATIONS

ALEXSIS BOWEN

ENVIRONMENTAL SCIENTIST



Alexis Bowen is an Environmental Scientist with Triterra. Her work focuses on Environmental Due Diligence Services. Alexis also supports the Remediation Group and Natural Resources Group. Alexis conducts Phase I Environmental Site Assessments (ESAs) and helps clients understand environmental risk associated properties. She conducts field assignments, data analysis, and technical report preparation. Alexis understands regulatory requirements and considerations necessary for environmental due diligence projects.

AREAS OF EXPERTISE

- ASTM International Phase I ESAs, Phase II ESAs, and Environmental Transaction Screens
- ASTM International Vapor Encroachment Screening
- BEAs and Due Care Evaluations
- Borehole Logging and Soil Classification
- Soil, Groundwater, Soil Gas, and Indoor Air Sampling
- NEPA Part 50 & Part 58 Environmental Assessments

EDUCATION

- BS Earth Science – 2020
Tennessee Technological University – Cookeville, TN

NOTABLE PROJECT EXPERIENCE

- Records Search with Risk Assessments
- Conducted Numerous Phase I ESAs, Subsurface Assessments, and BEAs for Residential and Commercial Sites, Including Auto Repair and Body Shop Sites
- MSHDA pre-approved Group A & B Consultant

CERTIFICATIONS

- Hazardous Waste Operations & Emergency Response (HAZWOPER) Training



Creating Healthier Communities through Practical and Creative Environmental Solutions

517.853.5712 | alexsis.bowen@triterra.us | 1375 S. Washington Ave., Ste. 100

MELISSA HUNTER

ASSOCIATE GEOLOGIST DIRECTOR | DUE DILIGENCE



Melissa Hunter is a Geologist and Director of Due Diligence Services with Triterra. She oversees Phase I Environmental Site Assessments (ESAs), Phase II ESAs, Baseline Environmental Assessments (BEAs), and Due Care Evaluations. Her responsibilities include development and supervision of the Due Diligence Team; and consultation of due care obligations for Part 201 & Part 213 facilities, construction activities, and Brownfield projects. Melissa is current on regulatory requirements and guidelines, and she is proficient with site characterization, field assignments, and technical reports.

AREAS OF EXPERTISE

- ASTM International Phase I ESAs, Phase II ESAs, and Environmental Transaction Screens
- ASTM International Vapor Encroachment Screening
- Part 201 Environmental Remediation
- Part 213 Leaking Underground Storage Tank (LUST) Investigation & Remediation
- BEAs and Due Care Evaluations
- Due Care Planning and Documentation of Due Care Compliance
- Response Activity Plans and No Further Action Reports
- Borehole Logging, Field Screening, and Soil/Groundwater Sampling
- Monitoring Well Installation Development, Oversight, and Sampling
- Soil, Groundwater, Soil Gas, and Indoor Air Sampling
- Analytical Data Evaluation and Pathway Compliance

CERTIFICATIONS

- State of Michigan Certified Wastewater Treatment Plant Operator (A-2d, B-1b)
- Hazardous Waste Operations & Emergency Response (HAZWOPER) Training
- ASTM International ESAs for Commercial Real Estate Course

EDUCATION

- BS Geology - 2011
Western Michigan University, Kalamazoo, Michigan

NOTABLE PROJECT EXPERIENCE

- Over 11 years Environmental Consulting Experience
- Environmental Health & Safety Plans
- Brownfield Grant and Loan Programs
- Environmental Construction Plans
- Michigan State Housing and Development Authority (MSHDA) Review Requirements
- Underground Storage Tank Removal and Site Assessment
- Risk-Based Characterization and Closures
- Asbestos Containing Materials Inspections
- Remediation System Operations and Maintenance
- Environmental Construction Plans



Creating Healthier Communities through Practical and Creative Environmental Solutions

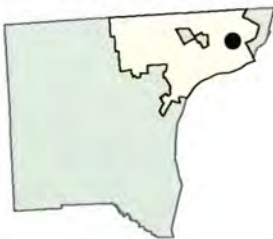
269.360.7501 | melissa.hunter@triterra.us | P.O. Box 233 Oshtemo, MI 49077

ATTACHMENT C:
***2014 MDEQ FIGURES, BORING LOGS, AND ANALYTICAL
TABLES***

FIGURE 1 PROPERTY LOCATION



Property location (dot) shown
in City of Detroit, Wayne Co.



0 250 500 1,000 Feet

Compiled by: Leni Steiner-Zehender, 3/2014
(Revised 7/3/2014, JES)
Projected Coordinate System:
Michigan GeoRef, NAD-83, meters
Sources: Michigan Geographic
Data Library and MSU 2010 Aerial

BROWNFIELD REDEVELOPMENT ASSESSMENT REPORT
5250 CONNER DETROIT, MIB000000184

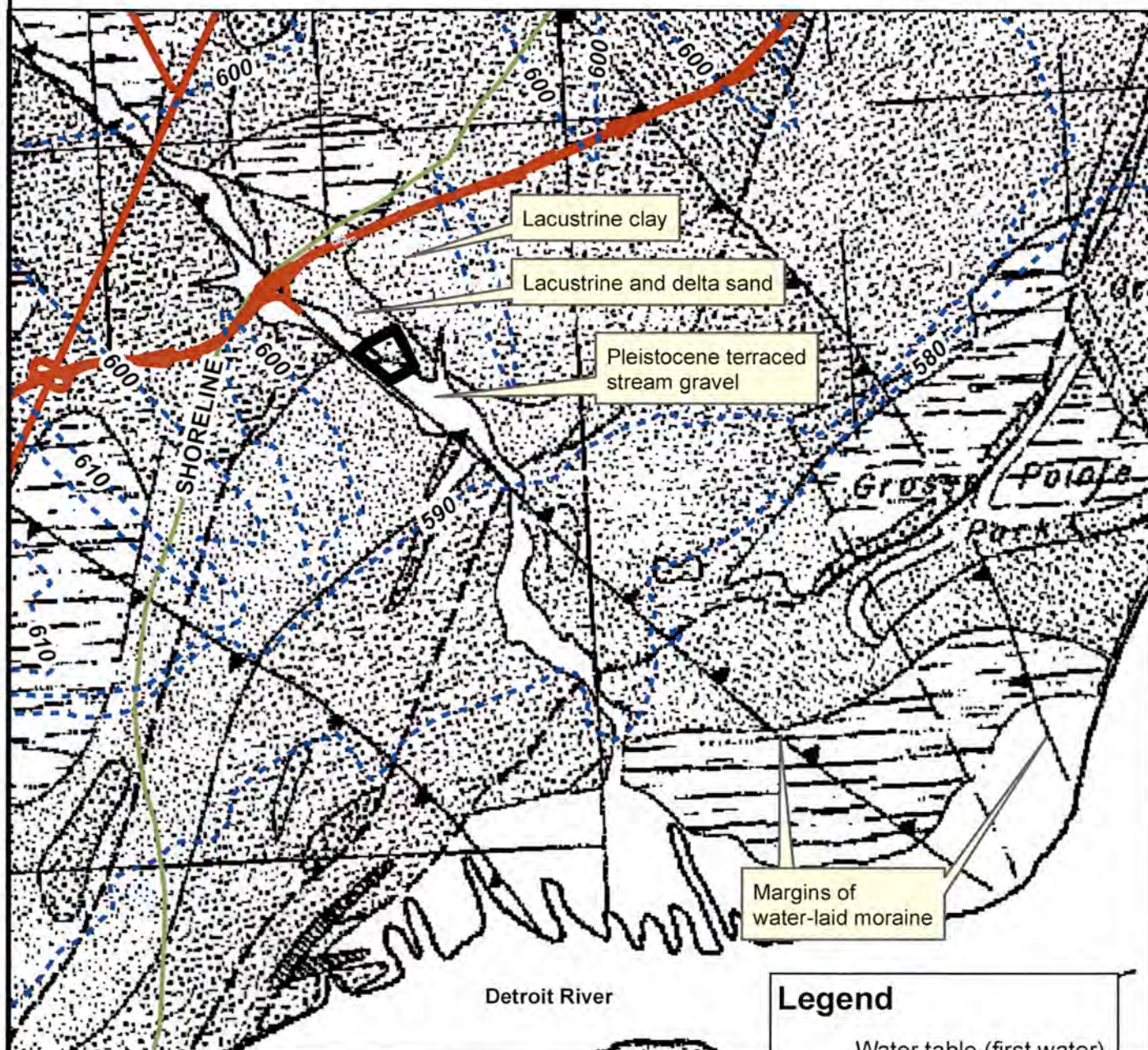


Michigan Department of Environmental Quality
Remediation and Redevelopment Division
Superfund Section
Site Management and Site Assessment Unit

Wayne County in
state of Michigan



FIGURE 2
HYDROGEOLOGICAL FEATURES



Sources: Mozola, 1969 (geological features map);
MDTMB, 2014 (state highway layer, former shoreline); and
MDEQ, USGS, and MSU, 2005 (water table elevations)

0 0.275 0.55 1.1 Miles

Legend

- Water table (first water) contour elevation, ft
- I-94 and Gratiot Ave
- FORMER SHORELINE
- Conner Property

BROWNFIELD REDEVELOPMENT ASSESSMENT REPORT
5250 CONNER DETROIT, MIB000000184

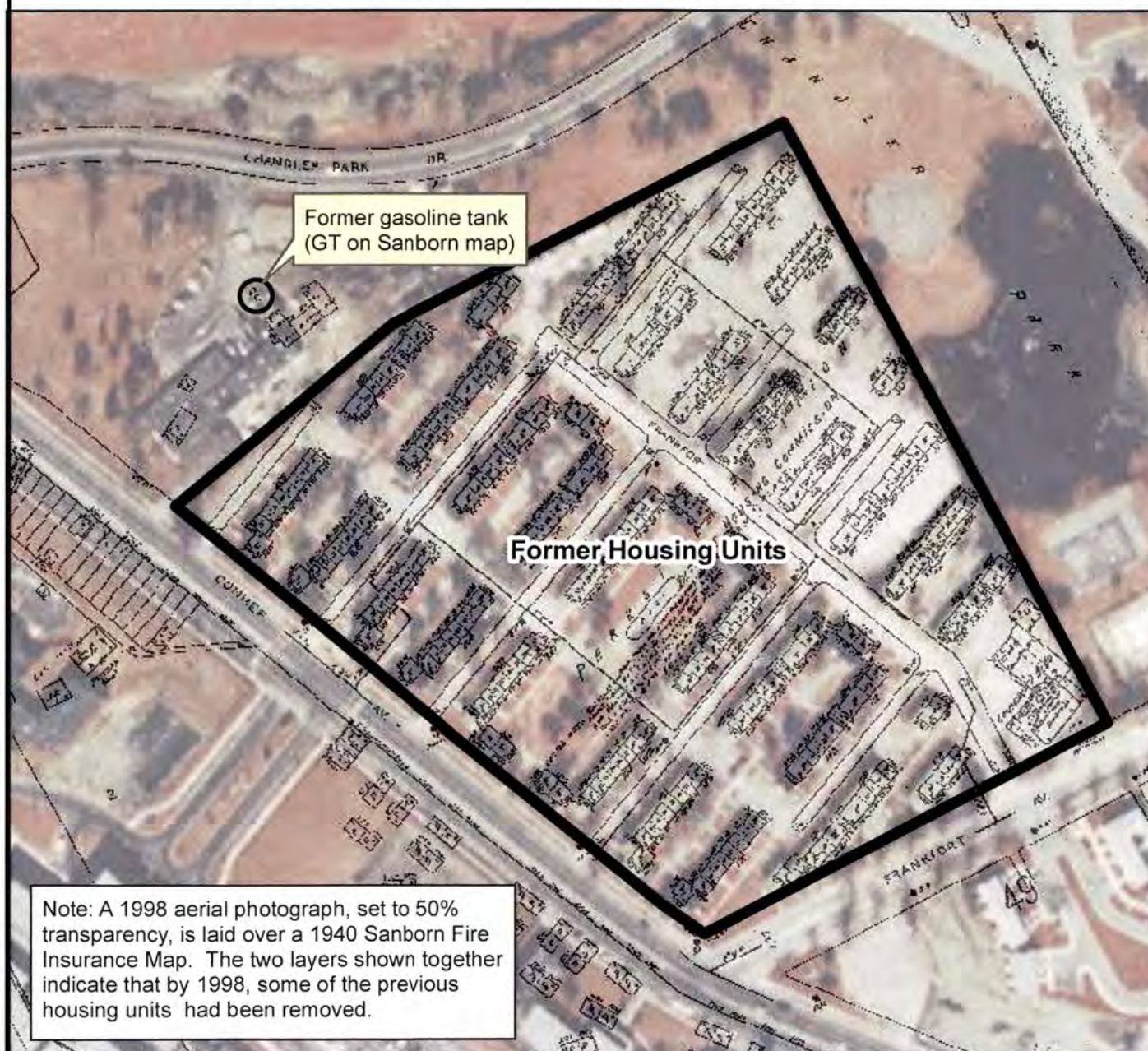


Michigan Department of Environmental Quality
Remediation and Redevelopment Division
Superfund Section
Site Management and Site Assessment Unit



Compiled by: JE Spielberg, 7/11/14
Projected Coordinate System:
Michigan GeoRef, NAD-83, meters
Done in ESRI ArcMap10.1

FIGURE 3 HISTORICAL PROPERTY FEATURES



Sources: EDR, 2014d (Sanborn map); MIS - Michigan Imagery Solution WMS Services (1998 aerial image); Detroit Housing Commission (Property boundary)

0 150 300 600 Feet

Legend

 Conner Property

BROWNFIELD REDEVELOPMENT ASSESSMENT REPORT
5250 CONNER DETROIT, MIB000000184



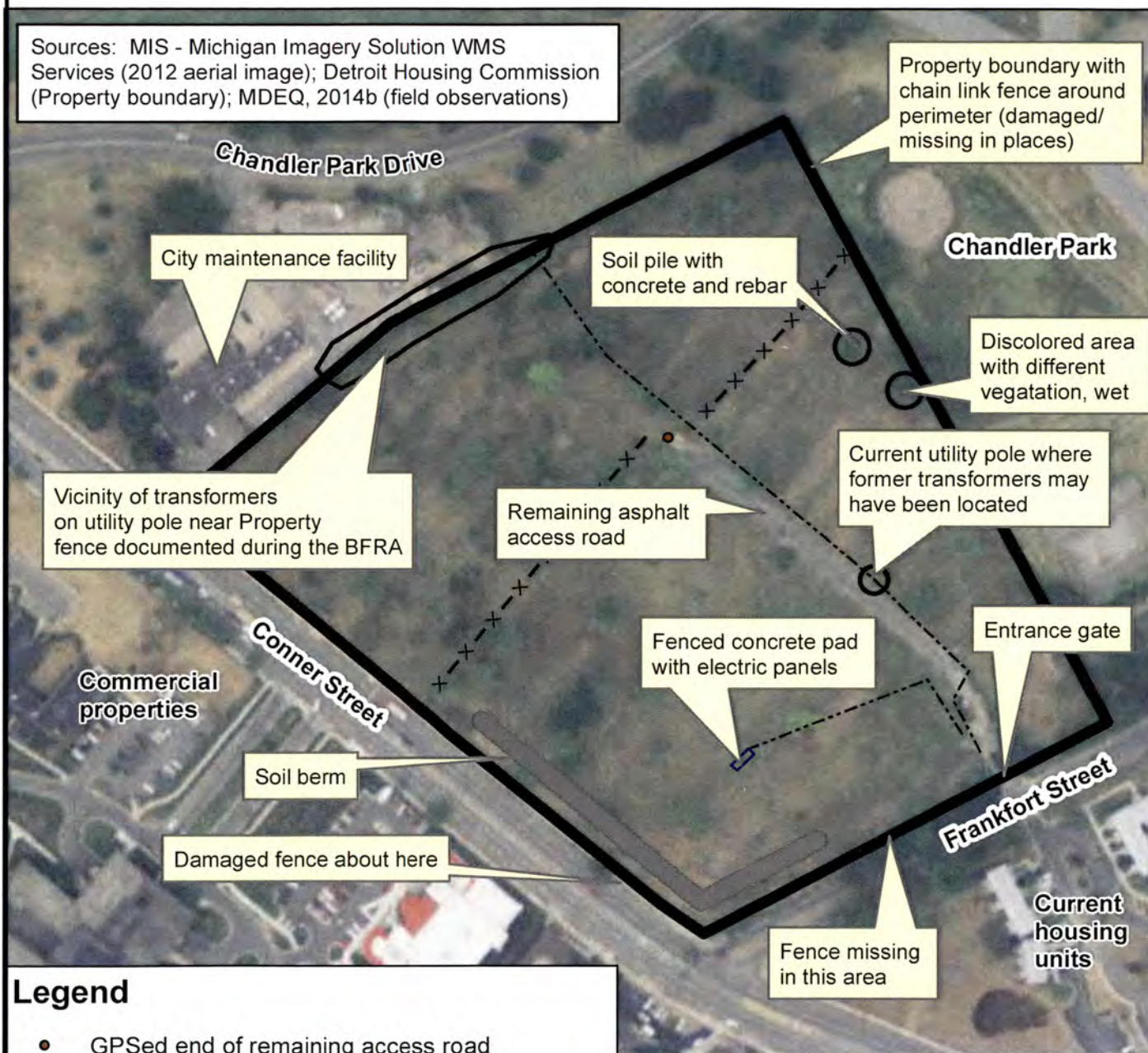
Michigan Department of Environmental Quality
Remediation and Redevelopment Division
Superfund Section
Site Management and Site Assessment Unit



Compiled by: JE Spielberg, 7/11/14
Projected Coordinate System:
Michigan GeoRef, NAD-83, meters
Done in ESRI ArcMap10.1

FIGURE 4 CURRENT PROPERTY FEATURES

Sources: MIS - Michigan Imagery Solution WMS Services (2012 aerial image); Detroit Housing Commission (Property boundary); MDEQ, 2014b (field observations)



Legend

- GPSed end of remaining access road
- × - × - Chain link fence (incomplete/damaged in places)
- Overhead utility line
- Soil berm about 5 ft above grade
- Conner Property

0 100 200 400 Feet

BROWNFIELD REDEVELOPMENT ASSESSMENT REPORT
5250 CONNER DETROIT, MIB000000184



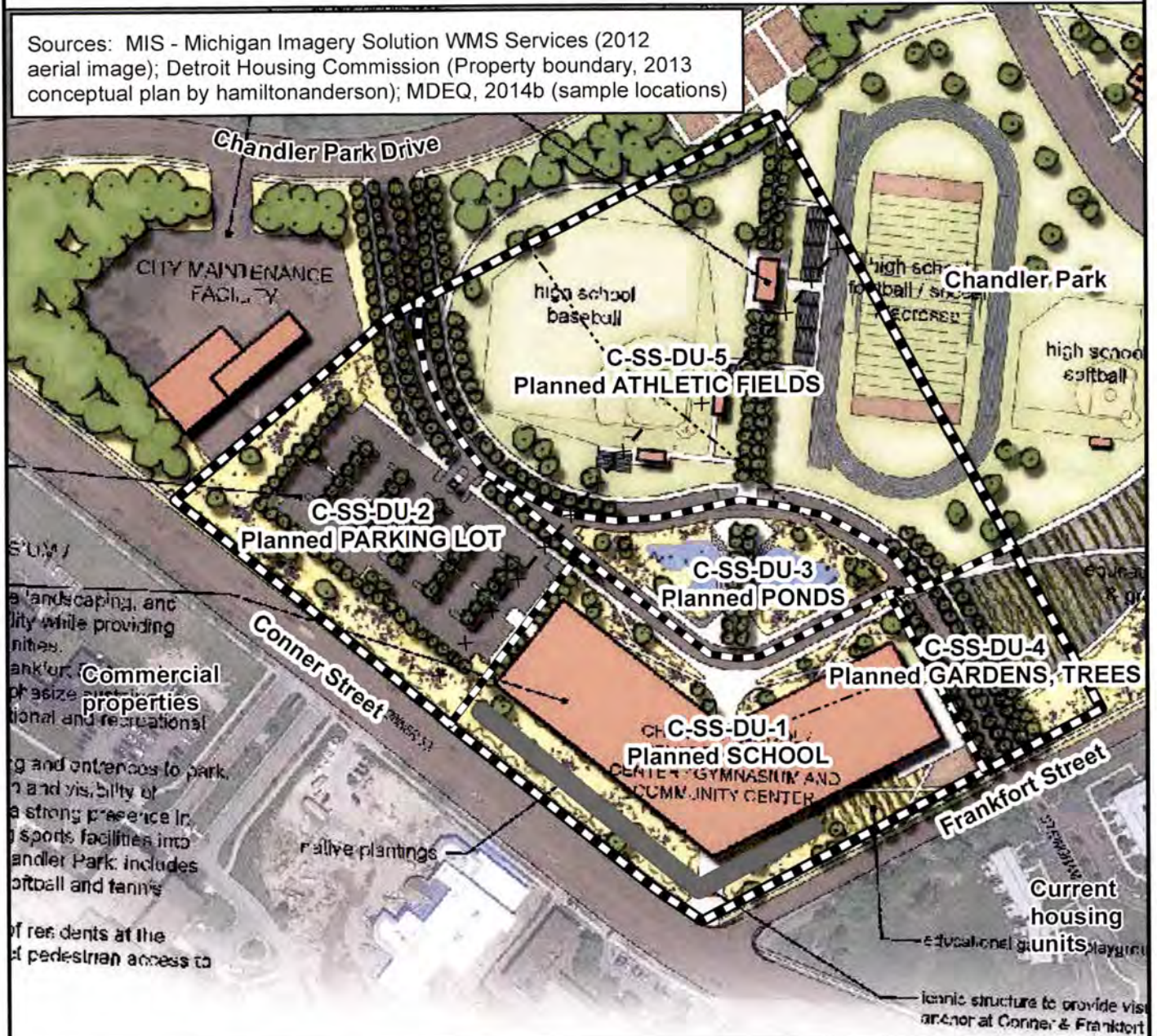
Michigan Department of Environmental Quality
Remediation and Redevelopment Division
Superfund Section
Site Management and Site Assessment Unit



Compiled by: JE Spielberg, 7/11/14
Projected Coordinate System:
Michigan GeoRef, NAD-83, meters
Done in ESRI ArcMap10.1

FIGURE 5 SURFICIAL SOIL SAMPLE LOCATIONS

Sources: MIS - Michigan Imagery Solution WMS Services (2012 aerial image); Detroit Housing Commission (Property boundary, 2013 conceptual plan by hamiltonanderson); MDEQ, 2014b (sample locations)



Legend



Decision Unit (DU) with sample name and planned use based on conceptual plan shown above

0 100 200 400 Feet

BROWNFIELD REDEVELOPMENT ASSESSMENT REPORT
5250 CONNER DETROIT, MIB000000184



Michigan Department of Environmental Quality
Remediation and Redevelopment Division
Superfund Section
Site Management and Site Assessment Unit



Compiled by: JE Spielberg, 7/11/14
Projected Coordinate System:
Michigan GeoRef, NAD-83, meters
Done in ESRI ArcMap10.1

FIGURE 6 SOIL BORING SAMPLE LOCATIONS

Sources: MIS - Michigan Imagery Solution WMS Services (1998 aerial image); Detroit Housing Commission (Property boundary); MDEQ, 2014b (sample locations)



Legend

- Soil Boring sample, planned and collected (unless moved during fieldwork)
- Soil Boring sample, after moving its location during fieldwork
- Decision Unit boundaries
- Conner Property boundary

BROWNFIELD REDEVELOPMENT ASSESSMENT REPORT
5250 CONNER DETROIT, MIB000000184



Michigan Department of Environmental Quality
Remediation and Redevelopment Division
Superfund Section
Site Management and Site Assessment Unit



Compiled by: JE Spielberg, 7/16/14
Projected Coordinate System:
Michigan GeoRef, NAD-83, meters
Done in ESRI ArcMap10.1

TABLE 1
SURFICIAL SOIL SAMPLE DESCRIPTIONS

SAMPLE NUMBER	DECISION UNIT ACRES	START CORNER/DIRECTION	INTERVAL BETWEEN INCREMENTS (FEET)	NUMBER OF INCREMENTS	SAMPLE MASS (KILOGRAMS)	SAMPLE DESCRIPTION
C-SS-DU-1	5.0	E/WSW	70	41	4.4	Dry-moist, silty, fine-medium sand, with some clay
C-SS-DU-2	3.7	W/ESE	70	30	2.1	0-2 inches: moist, brown, medium sand organic soil with some clay. 2-10 inches: moist, brown, silty clay
C-SS-DU-2 D	same	same	same	30	2.3	Same as C-SS-DU-2
C-SS-DU-2 T	same	same	same	30	1.9	Same as C-SS-DU-2
C-SS-DU-3	1.6	E/N	40	33	2.3	0-3 inches: moist, brown, medium sand organic soil, with some clay. 3-10 inches: moist, brown, silty clay. Average depths of increments: 10 inches.
C-SS-DU-4	1.2	E/NNW	30	32	3.0	Dry-moist, light brown, fine-medium sand, with some silt and clay, trace fine gravel. Had occasional refusal (rocks) from 6-9 inches.
C-SS-DU-5	7.1	E/NNW	100	22	1.9	0-2 inches: moist, brown, sand and clay, with trace roots. 2-12 inches: moist, brown, silty clay.

Note:

The acreage of each decision unit was determined in a geographic information system.

The third column from the left indicates where the incremental sampling started and the direction it proceeded toward.

The distance in feet between intervals is estimated.

An attempt was made to collect all increments from a depth of 0-12 inches.

However, some increments were collected from less than 12 inches deep due to refusal conditions (rock/gravel, roots, etc.).

TABLE 2
SURFICIAL SOIL SAMPLE DATA SUMMARY

Sample Number	Hazardous Substance (Footnotes)	Sample Concentration	Qualifiers	Statewide Default Background Levels	Groundwater Protection						Direct Contact	
					Residential Drinking Water Protection Criteria	Footnotes	Nonresidential Drinking Water Protection Criteria	Footnotes	Groundwater Surface Water Interface Protection Criteria	Footnotes	Residential Direct Contact Criteria	Footnotes
C-SS-DU-1	SEMI-VOLATILES	(μg/kg)		(μg/kg)	(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)	
	Fluoranthene	6,200			730,000		730,000		5,500		46,000,000	
	Phenanthrene	4,800			56,000		160,000		2,100		1,600,000	
	PESTICIDES/PCBS	(μg/kg)		(μg/kg)	(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)	
	No pesticides/PCBs found to exceed criteria											
	INORGANICS	(mg/kg)		(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
	Aluminum (B)	8,000		6,900	1.0		1.0		NA		50,000	DD
	Arsenic	7.2	B	5.8	4.6		4.6		4.6		7.6	
	Chromium [III] (B,H) - assumed present*			18	1,000,000	D	1,000,000	D	3,000,000	G,X	790,000	
	Chromium [Total] (H) - analyzed (assume Cr III)*	20	B	18	30		30		3.3		2,500	
	Chromium [VI] - assumed not present*				30		30		3.3		2,500	
	Iron (B)	15,000	B	12,000	6.0		6.0		NA		160,000	
	Magnesium (B)	11,000	B		8,000		22,000		NA		1,000,000	D
	Selenium (B)	1.0	JB	0.41	4.0		4.0		0.40		2,600	
C-SS-DU-2	SEMI-VOLATILES	(mg/kg)		(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
	Benzo(a)pyrene (Q)	2,100			NLL		NLL		NLL		2,000	
	Fluoranthene	6,300			730,000		730,000		5,500		46,000,000	
	Phenanthrene	4,700			56,000		160,000		2,100		1,600,000	
	PESTICIDES/PCBS	(mg/kg)		(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
	No pesticides/PCBs found to exceed criteria											
	INORGANICS	(mg/kg)		(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
	Aluminum (B)	8,000		6,900	1.0		1.0		NA		50,000	DD
	Arsenic	6.7	B	5.8	4.6		4.6		4.6		7.6	
	Chromium [III] (B,H) - assumed present*			18	1,000,000	D	1,000,000	D	3,000,000	G,X	790,000	
	Chromium [Total] (H) - analyzed (assume Cr III)*	19	B	18	30		30		3.3		2,500	
	Chromium [VI] - assumed not present*				30		30		3.3		2,500	
	Iron (B)	14,000	B	12,000	6.0		6.0		NA		160,000	
	Magnesium (B)	9,100	B		8,000		22,000		NA		1,000,000	D
	Selenium (B)	1.1	JB	0.41	4.0		4.0		0.40		2,600	

$\mu\text{g/kg}$ = microgram/kilogram mg/kg = milligram/kilogram

Qualifier definitions in Appendix D. Footnote definitions in Appendix E.

Shaded Criteria indicate an exceedance.

A blank Default Background column means that value has not been determined.

TABLE 2
SURFICIAL SOIL SAMPLE DATA SUMMARY

Sample Number	Hazardous Substance (Footnotes)	Sample Concentration	Qualifiers	Statewide Default Background Levels	Groundwater Protection					Direct Contact		
					Residential Drinking Water Protection Criteria	Footnotes	Nonresidential Drinking Water Protection Criteria	Footnotes	Groundwater Surface Water Interface Protection Criteria	Footnotes	Residential Direct Contact Criteria	Footnotes
C-SS-DU-2D	SEMI-VOLATILES	(μg/kg)		(μg/kg)	(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)	
	No semi-volatiles found to exceed criteria											
	PESTICIDES/PCBS	(μg/kg)		(μg/kg)	(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)	
	No pesticides/PCBs found to exceed criteria											
	INORGANICS	(mg/kg)		(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
	Aluminum (B)	7,900		6,900	1.0		1.0		NA		50,000	DD
	Arsenic	6.1	B	5.8	4.6		4.6		4.6		7.6	
	Chromium [III] (B,H) - assumed present*			18	1,000,000	D	1,000,000	D	3,000,000	G,X	790,000	
	Chromium [Total] (H) - analyzed (assume Cr III)*	21	B	18	30		30		3.3		2,500	
	Chromium [VI] - assumed not present*				30		30		3.3		2,500	
	Iron (B)	14,000	B	12,000	6.0		6.0		NA		160,000	
	Magnesium (B)	9,200	B		8,000		22,000		NA		1,000,000	D
	Selenium (B)	1.0	JB	0.41	4.0		4.0		0.40		2,600	
	Strontium (B)	93	B		92		260		420	X	330,000	
C-SS-DU-2T	SEMI-VOLATILES	(μg/kg)		(μg/kg)	(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)	
	Benzo(a)pyrene (Q)	3,400			NLL		NLL		NLL		2,000	
	Fluoranthene	10,000			730,000		730,000		5,500		46,000,000	
	Phenanthrene	7,700			56,000		160,000		2,100		1,600,000	
	PESTICIDES/PCBS	(μg/kg)		(μg/kg)	(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)	
	No pesticides/PCBs found to exceed criteria											
	INORGANICS	(mg/kg)		(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
	Aluminum (B)	8,100		6,900	1.0		1.0		NA		50,000	DD
	Arsenic	6.2	B	5.8	4.6		4.6		4.6		7.6	
	Chromium [III] (B,H) - assumed present*			18	1,000,000	D	1,000,000	D	3,000,000	G,X	790,000	
	Chromium [Total] (H) - analyzed (assume Cr III)*	20	B	18	30		30		3.3		2,500	
	Chromium [VI] - assumed not present*				30		30		3.3		2,500	
	Iron (B)	14,000	B	12,000	6.0		6.0		NA		160,000	
	Magnesium (B)	9,300	B		8,000		22,000		NA		1,000,000	D
	Selenium (B)	1.0	JB	0.41	4.0		4.0		0.40		2,600	

$\mu\text{g/kg}$ = microgram/kilogram mg/kg = milligram/kilogram

Qualifier definitions in Appendix D. Footnote definitions in Appendix E.

Shaded Criteria indicate an exceedance.

A blank Default Background column means that value has not been determined.

TABLE 2
SURFICIAL SOIL SAMPLE DATA SUMMARY

Sample Number	Hazardous Substance (Footnotes)	Sample Concentration	Qualifiers	Statewide Default Background Levels	Groundwater Protection						Direct Contact	
					Residential Drinking Water Protection Criteria	Footnotes	Nonresidential Drinking Water Protection Criteria	Footnotes	Groundwater Surface Water Interface Protection Criteria	Footnotes	Residential Direct Contact Criteria	Footnotes
C-SS-DU-3	SEMI-VOLATILES	(μg/kg)		(μg/kg)	(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)	
	Benzo(a)pyrene (Q)	2,500			NLL		NLL		NLL		2,000	
	Fluoranthene	7,800			730,000		730,000		5,500		46,000,000	
	Naphthalene	750			35,000		100,000		730		16,000,000	
	Phenanthrene	7,000			56,000		160,000		2,100		1,600,000	
	PESTICIDES/PCBS	(μg/kg)		(μg/kg)	(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)	
	No pesticides/PCBs found to exceed criteria											
	INORGANICS	(mg/kg)		(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
	Aluminum (B)	7,200		6,900	1.0		1.0		NA		50,000	DD
	Arsenic	6.6	B	5.8	4.6		4.6		4.6		7.6	
	Chromium [III] (B,H) - assumed present*			18	1,000,000	D	1,000,000	D	3,000,000	G,X	790,000	
	Chromium [Total] (H) - analyzed (assume Cr III)*	18	B	18	30		30		3.3		2,500	
	Chromium [VI] - assumed not present*				30		30		3.3		2,500	
	Cyanide (P,R), total	0.48	JB	0.39	4.0		4.0		0.10		12	
	Iron (B)	14,000	B	12,000	6.0		6.0		NA		160,000	
	Magnesium (B)	11,000	B		8,000		22,000		NA		1,000,000	D
	Selenium (B)	0.98	JB	0.41	4.0		4.0		0.40		2,600	
	Strontium (B)	130	B		92		260		420	X	330,000	
C-SS-DU-4	SEMI-VOLATILES	(μg/kg)		(μg/kg)	(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)	
	Benzo(a)pyrene (Q)	5,100			NLL		NLL		NLL		2,000	
	Carbazole	1,400			9,400		39,000		1,100		530,000	
	Fluoranthene	15,000			730,000		730,000		5,500		46,000,000	
	Naphthalene	1,100			35,000		100,000		730		16,000,000	
	Phenanthrene	11,000			56,000		160,000		2,100		1,600,000	
	PESTICIDES/PCBS	(μg/kg)		(μg/kg)	(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)	
	No pesticides/PCBs found to exceed criteria											
	INORGANICS	(mg/kg)		(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
	Chromium [III] (B,H) - assumed present*			18	1,000,000	D	1,000,000	D	3,000,000	G,X	790,000	
	Chromium [Total] (H) - analyzed (assume Cr III)*	12	B	18	30		30		3.3		2,500	
	Chromium [VI] - assumed not present*				30		30		3.3		2,500	
	Magnesium (B)	9,900	B		8,000		22,000		NA		1,000,000	D
	Selenium (B)	0.7	JB	0.41	4.0		4.0		0.40		2,600	

$\mu\text{g/kg}$ = microgram/kilogram mg/kg = milligram/kilogram

Qualifier definitions in Appendix D. Footnote definitions in Appendix E.

Shaded Criteria indicate an exceedance.

A blank Default Background column means that value has not been determined.

TABLE 2
SURFICIAL SOIL SAMPLE DATA SUMMARY

				Groundwater Protection							Direct Contact	
Sample Number	Hazardous Substance (Footnotes)	Sample Concentration	Qualifiers	Statewide Default Background Levels	Residential Drinking Water Protection Criteria	Footnotes	Nonresidential Drinking Water Protection Criteria	Footnotes	Groundwater Surface Water Interface Protection Criteria	Footnotes	Residential Direct Contact Criteria	Footnotes
C-SS-DU-5	SEMI-VOLATILES	(μg/kg)		(μg/kg)	(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)	
	Benzo(a)pyrene (Q)	2,400			NLL		NLL		NLL		2,000	
	Fluoranthene	5,800			730,000		730,000		5,500		46,000,000	
	Phenanthrene	2,600			56,000		160,000		2,100		1,600,000	
	PESTICIDES/PCBS	(μg/kg)		(μg/kg)	(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)	
	No pesticides/PCBs found to exceed criteria											
	INORGANICS	(mg/kg)		(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
	Aluminum (B)	7,800		6,900	1.0		1.0		NA		50,000	DD
	Arsenic	6.3	B	5.8	4.6		4.6		4.6		7.6	
	Chromium [III] (B,H) - assumed present*			18	1,000,000	D	1,000,000	D	3,000,000	G,X	790,000	
	Chromium [Total] (H) - analyzed (assume Cr III)*	20	B	18	30		30		3.3		2,500	
	Chromium [VI] - assumed not present*				30		30		3.3		2,500	
	Iron (B)	15,000	B	12,000	6.0		6.0		NA		160,000	
	Magnesium (B)	9,700	B		8,000		22,000		NA		1,000,000	D
	Selenium (B)	1.0	JB	0.41	4.0		4.0		0.40		2,600	

Notes:

Volatiles analysis was not requested (see chain-of-custody documents in Appendix D).

Exposure pathway columns with no criteria exceedances are hidden.

*Chromium III is naturally occurring and chromium VI is not naturally occurring.

*The total chromium analysis included both III and VI, but based on past Property uses without chromium VI sources, an assumption is made that the total chromium analysis includes only chromium III.

*Therefore, the 18 mg/kg background is also applied here to total chromium.

$\mu\text{g/kg}$ = microgram/kilogram mg/kg = milligram/kilogram

Qualifier definitions in Appendix D. Footnote definitions in Appendix E.

Shaded Criteria indicate an exceedance.

A blank Default Background column means that value has not been determined.

TABLE 3
SOIL BORING LITHOLOGY AND SAMPLE LOG

SAMPLE NUMBER	LOCATION COORDINATES		CORE INTERVAL (feet)	RECOVERY (inches)	UNIT THICKNESS (inches)	LITHOLOGICAL DESCRIPTION WITH PHOTOIONIZATION DETECTOR (PID) READING*	SAMPLE INTERVALS AND COMMENTS*
	Easting	Northing					
C-SB-01	748555.501	209291.653	0-4	34	0-18	Moist, brown, silty clay with some tree roots.	Deep grab sample. VOA portion of sample collected at 22 inches of 4-8 feet core. Remaining sample portion collected from 20-34 inches of 4-8 feet core. PID = 0.0 for all cores.
					18-23	Very moist, black, silty/clayey, fine sand.	
					23-34	Moist, variegated, silty clay with clayey sand at 30-33 inches.	
			4-8	43	0-4	Slough.	
					4-43	Moist, variegated, silty clay.	
			8-12	45	0-3	Slough.	
					3-6	Moist, variegated, silty clay.	
					6-8	Very moist, brown, clayey, fine sand.	
					8-45	Moist, variegated, silty clay.	

TABLE 3
SOIL BORING LITHOLOGY AND SAMPLE LOG

SAMPLE NUMBER	LOCATION COORDINATES		CORE INTERVAL (feet)	RECOVERY (inches)	UNIT THICKNESS (inches)	LITHOLOGICAL DESCRIPTION WITH PHOTOIONIZATION DETECTOR (PID) READING*	SAMPLE INTERVALS AND COMMENTS*
	Easting	Northing					
C-SB-02/ C-SB-02 DUP	748368.826	209168.753	0-4	45	0-25	Moist, brown, silty clay with trace sand and gravel and some broken asphalt and coal chunks.	Deep grab sample. VOA portion of sample collected at 15 inches of 4-8 feet core. Remaining sample portion collected from 12-30 inches of 4-8 feet core. PID = 0.0 for all cores.
					25-34	Moist, black/brown, silty, fine sand.	
					34-45	Moist, brown, silty clay with some sand and occasional black streaking.	
			4-8	45	0-4	Slough.	
					4-14	Moist, brown, silty clay with some sand and occasional black streaking.	
					14-45	Moist, variegated, silty clay with trace fine sand.	

TABLE 3
SOIL BORING LITHOLOGY AND SAMPLE LOG

SAMPLE NUMBER	LOCATION COORDINATES		CORE INTERVAL (feet)	RECOVERY (inches)	UNIT THICKNESS (inches)	LITHOLOGICAL DESCRIPTION WITH PHOTOIONIZATION DETECTOR (PID) READING*	SAMPLE INTERVALS AND COMMENTS*
	Easting	Northing					
C-SB-03/ C-SB-03/ MS/MSD	748345.058	209117.303	0-4	39	0-10	Dry/moist, dark brown, silty, fine sand with trace slag.	Deep grab sample. VOA portion of sample collected at 26 inches of 4-8 feet core. Remaining sample portion collected from 12-28 inches of 4-8 feet core. PID = 0.0 for all cores.
					10-39	Moist, brown, fine sand with trace silt and occasional clay chunks (fill).	
			4-8	35	0-6	Slough.	
					6-28	Moist, brown, fine sand with trace silt and occasional clay chunks (fill).	
					28-35	Moist, variegated, silty clay with trace fine sand.	
			8-11	39	0-5	Slough.	
					5-39	Moist, variegated, silty clay with trace fine sand.	

TABLE 3
SOIL BORING LITHOLOGY AND SAMPLE LOG

SAMPLE NUMBER	LOCATION COORDINATES		CORE INTERVAL (feet)	RECOVERY (inches)	UNIT THICKNESS (inches)	LITHOLOGICAL DESCRIPTION WITH PHOTOIONIZATION DETECTOR (PID) READING*	SAMPLE INTERVALS AND COMMENTS*
	Easting	Northing					
C-SB-04	748424.066	209127.291	0-4	45	0-14	Moist, dark brown, clayey silt and fine sand with organics/roots in top 3 inches.	Deep grab sample. VOA portion of sample collected at 30 inches of 4-8 feet core. Remaining sample portion collected from 24-32 inches of 4-8 feet core.
					14-26	Moist, brown, silty clay.	
					26-34	Moist, brown, silty, fine sand.	
					34-45	Moist, variegated, silty clay with trace fine sand.	
			4-8	48	0-5	Slough.	PID = 0.0 for all cores.
					4-48	Moist, variegated, silty clay with trace fine sand.	
C-SB-05	748490.938	209071.527	0-4	47	0-27	Moist, brown, silty clay with trace sand.	Deep grab sample. VOA portion of sample collected at 16 inches of 4-8 feet core.
					27-29	Moist, brown, fine sand with trace silt.	
					29-47	Moist, variegated, silty clay with trace sand.	
			4-8	30	0-30	Moist, variegated, silty clay with trace sand.	Remaining sample portion collected from 12-20 inches of 4-8 feet core. PID = 0.0 for all cores.

TABLE 3
SOIL BORING LITHOLOGY AND SAMPLE LOG

SAMPLE NUMBER	LOCATION COORDINATES		CORE INTERVAL (feet)	RECOVERY (inches)	UNIT THICKNESS (inches)	LITHOLOGICAL DESCRIPTION WITH PHOTOIONIZATION DETECTOR (PID) READING*	SAMPLE INTERVALS AND COMMENTS*
	Easting	Northing					
C-SB-06	748540.201	209012.984	0-4	47	0-7	Dry, dark brown, silty clay with some organics/roots.	Deep grab sample. VOA portion of sample collected at 27 inches of 4-8 feet core. Remaining sample portion collected from 20-30 inches of 4-8 feet core. PID = 0.0 for all cores.
					7-47	Moist, mixed brown and variegated, silty clay.	
			4-8	48	0-7	Moist, mixed brown and variegated, silty clay.	
					7-25	Moist, dark brown, silty clay with some brick at 19-24 inches.	
					25-48	Moist, variegated, silty clay with trace sand.	

TABLE 3
SOIL BORING LITHOLOGY AND SAMPLE LOG

SAMPLE NUMBER	LOCATION COORDINATES		CORE INTERVAL (feet)	RECOVERY (inches)	UNIT THICKNESS (inches)	LITHOLOGICAL DESCRIPTION WITH PHOTOIONIZATION DETECTOR (PID) READING*	SAMPLE INTERVALS AND COMMENTS*
	Easting	Northing					
C-SB-07	748601.656	209019.515	0-4	41	0-9	Dry, dark brown, silty/clayey, fine sand with some organics/roots.	Deep grab sample.
					9-29	Moist, brown, silty, fine sand.	VOA portion of sample collected at 19 inches of 4-8 feet core.
					29-41	Moist, brown, silty clay with trace sand.	
			4-8	48	0-3	Slough.	Remaining sample portion collected from 15-25 inches of 4-8 feet core.
					3-7	Moist, brown, silty clay with trace sand.	
					7-15	Very moist, brown silt.	PID = 0.0 for all cores.
					15-48	Moist, variegated, silty clay with trace sand.	
C-SB-08	748643.822	209075.724	0-4	45	0-14	Dry/moist, dark brown, silty, fine sand with some concrete debris.	Deep grab sample.
					14-45	Moist, brown/variegated, silty clay with trace sand.	VOA portion of sample collected at 20 inches of 4-8 feet core.
			4-8	48	0-48	Moist, variegated, silty clay with trace sand. PID = 0.0 for all cores.	Remaining sample portion collected from 16-26 inches of 4-8 feet core.

TABLE 3

SOIL BORING LITHOLOGY AND SAMPLE LOG

SAMPLE NUMBER	LOCATION COORDINATES		CORE INTERVAL (feet)	RECOVERY (inches)	UNIT THICKNESS (inches)	LITHOLOGICAL DESCRIPTION WITH PHOTOIONIZATION DETECTOR (PID) READING*	SAMPLE INTERVALS AND COMMENTS*
	Easting	Northing					
C-SB-09	748563.381	209109.300	0-4	33	0-28	Dry/moist, brown, silty clay mixed with some gravel, wood, bark and concrete debris.	Deep grab sample. VOA portion of sample collected at 18 inches of 4-8 feet core. Remaining sample portion collected from 14-24 inches of 4-8 feet core. PID = 0.0 for all cores.
					28-33	Moist, black/brown silt with some fine sand.	
			4-8	48	0-3	Slough.	
					3-10	Moist, black/brown silt with some fine sand.	
					10-14	Very moist, brown, clayey, fine/medium sand.	
					14-48	Moist, black/brown silt with some fine sand.	

TABLE 3
SOIL BORING LITHOLOGY AND SAMPLE LOG

SAMPLE NUMBER	LOCATION COORDINATES		CORE INTERVAL (feet)	RECOVERY (inches)	UNIT THICKNESS (inches)	LITHOLOGICAL DESCRIPTION WITH PHOTOIONIZATION DETECTOR (PID) READING*	SAMPLE INTERVALS AND COMMENTS*
	Easting	Northing					
C-SB-10	748529.362	209109.313	0-4	41	0-2	Dry, dark brown, silty/clayey, fine sand with some organics/roots.	Deep grab sample.
					2-19	Moist, brown, silty clay with lots of gravel, concrete and asphalt.	VOA portion of sample collected at 14 inches of 4-8 feet core.
					19-39	Moist/very moist, brown, silty, fine sand with trace clay.	Remaining sample portion collected from 12-24 inches of 4-8 feet core.
					39-41	Moist, variegated, silty clay with trace fine sand.	PID = 0.0 for all cores.
			4-8	48	0-12	Slough.	
					12-48	Moist, variegated, silty clay with trace fine sand.	

TABLE 3
SOIL BORING LITHOLOGY AND SAMPLE LOG

SAMPLE NUMBER	LOCATION COORDINATES		CORE INTERVAL (feet)	RECOVERY (inches)	UNIT THICKNESS (inches)	LITHOLOGICAL DESCRIPTION WITH PHOTOIONIZATION DETECTOR (PID) READING*	SAMPLE INTERVALS AND COMMENTS*
	Easting	Northing					
C-SB-11	748421.724	209211.867	0-4	36	0-4	Moist, brown, silty clay with some organics/roots.	Deep grab sample.
					4-14	Moist, mixed, brown/gray/black, silty clay with concrete and asphalt.	VOA portion of sample collected at 12 inches of 4-8 feet core.
					14-18	Moist, brown, silty clay.	Remaining sample portion collected from 10-24 inches of 4-8 feet core.
					18-21	Moist, brown, fine/medium sand with some silt.	
					21-26	Moist, variegated, silty clay.	PID = 0.0 for all cores.
					26-36	Moist, dark brown, silty clay with trace sand.	
			4-8	46	0-2	Slough.	
					2-46	Moist, variegated, silty clay with trace fine sand.	

TABLE 3
SOIL BORING LITHOLOGY AND SAMPLE LOG

SAMPLE NUMBER	LOCATION COORDINATES		CORE INTERVAL (feet)	RECOVERY (inches)	UNIT THICKNESS (inches)	LITHOLOGICAL DESCRIPTION WITH PHOTOIONIZATION DETECTOR (PID) READING*	SAMPLE INTERVALS AND COMMENTS*
	Easting	Northing					
C-SB-12	748575.189	209174.756	0-4	44	0-9	Moist, dark brown, silty, fine sand with trace clay and organics/roots.	Deep grab sample.
					9-16	Moist, dark brown, fine sand with some silt and wood debris.	VOA portion of sample collected at 18 inches of 4-8 feet core.
					16-44	Moist, brown/variegated, silty clay with trace sand.	Remaining sample portion collected from 12-24 inches of 4-8 feet core.
			4-8	42	0-3	Slough.	PID = 0.0 for all cores.
					3-42	Moist, brown/variegated, silty clay with trace sand.	

Location Coordinates: Michigan Georef NAD 1983 meters

* PID reading units are parts per million (ppm)

TABLE 4
SOIL BORING SAMPLE DATA SUMMARY

Sample Number	Hazardous Substance (Footnotes)	Sample Concentration	Qualifiers	Statewide Default Background Levels	Groundwater Protection					Ambient Air (Y)		Direct Contact		
					Residential Drinking Water Protection Criteria	Footnotes	Nonresidential Drinking Water Protection Criteria	Footnotes	Groundwater Surface Water Interface Protection Criteria	Footnotes	Nonresidential Particulate Soil Inhalation Criteria	Footnotes	Residential Direct Contact Criteria	Footnotes
C-SB-01	VOLATILES	(µg/kg)		(µg/kg)	(µg/kg)		(µg/kg)		(µg/kg)		(µg/kg)		(µg/kg)	
	No volatile organic compounds were detected													
	SEMI-VOLATILES	(µg/kg)		(µg/kg)	(µg/kg)		(µg/kg)		(µg/kg)		(µg/kg)		(µg/kg)	
	No semi-volatile organic compounds were detected													
	PESTICIDES/PCBS	(µg/kg)		(µg/kg)	(µg/kg)		(µg/kg)		(µg/kg)		(µg/kg)		(µg/kg)	
	No pesticides or PCBs were detected													
	INORGANICS	(mg/kg)		(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
	Arsenic	15		5.8	4.6		4.6		4.6		910		7.6	
	Chromium [III] (B,H) - assumed present*			18	1,000,000	D	1,000,000	D	3,000,000	G,X	150,000		790,000	
	Chromium [Total] (H) - analyzed (assume Cr III)*	19		18	30		30		3.3		240		2,500	
	Chromium [VI] - assumed not present*				30		30		3.3		240		2,500	
	Cobalt	8.2		6.8	0.8		2.0		2.0		5,900		2,600	
Iron (B)	37,000		12,000	6.0		6.0		NA		ID		160,000		
Molybdenum (B)	3.0			1.5		4.2		64	X	ID		2,600		
C-SB-02	VOLATILES	(µg/kg)		(µg/kg)	(µg/kg)		(µg/kg)		(µg/kg)		(µg/kg)		(µg/kg)	
	No volatile organic compounds were detected													
	SEMI-VOLATILES	(µg/kg)		(µg/kg)	(µg/kg)		(µg/kg)		(µg/kg)		(µg/kg)		(µg/kg)	
	No semi-volatile organic compounds were detected													
	PESTICIDES/PCBS	(µg/kg)		(µg/kg)	(µg/kg)		(µg/kg)		(µg/kg)		(µg/kg)		(µg/kg)	
	No pesticides or PCBs were detected													
	INORGANICS	(mg/kg)		(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
	Iron (B)	13,000		12,000	6.0		6.0		NA		ID		160,000	
	C-SB-02-DUP	VOLATILES	(µg/kg)		(µg/kg)	(µg/kg)		(µg/kg)		(µg/kg)		(µg/kg)		(µg/kg)
No volatile organic compounds were detected														
SEMI-VOLATILES		(µg/kg)		(µg/kg)	(µg/kg)		(µg/kg)		(µg/kg)		(µg/kg)		(µg/kg)	
No semi-volatile organic compounds were detected														
PESTICIDES/PCBS		(µg/kg)		(µg/kg)	(µg/kg)		(µg/kg)		(µg/kg)		(µg/kg)		(µg/kg)	
No pesticides or PCBs were detected														
INORGANICS		(mg/kg)		(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Cobalt		7.0		6.8	0.8		2.0		2.0		5,900		2,600	
Iron (B)		20,000		12,000	6.0		6.0		NA		ID		160,000	
Molybdenum (B)		2.5			1.5		4.2		64	X	ID		2,600	

µg/kg = microgram/kilogram mg/kg = milligram/kilogram

Qualifier definitions in Appendix D. Footnote definitions in Appendix E.

Shaded Criteria indicate an exceedance.

A blank Default Background column means that value has not been determined.

TABLE 4
SOIL BORING SAMPLE DATA SUMMARY

Sample Number	Hazardous Substance (Footnotes)	Sample Concentration	Qualifiers	Statewide Default Background Levels	Groundwater Protection					Ambient Air (Y)		Direct Contact		
					Residential Drinking Water Protection Criteria	Footnotes	Nonresidential Drinking Water Protection Criteria	Footnotes	Groundwater Surface Water Interface Protection Criteria	Footnotes	Nonresidential Particulate Soil Inhalation Criteria	Footnotes	Residential Direct Contact Criteria	Footnotes
C-SB-03	VOLATILES	(μ g/kg)		(μ g/kg)	(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)	
	No volatile organic compounds were detected													
	SEMI-VOLATILES	(μ g/kg)		(μ g/kg)	(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)	
	No semi-volatile organic compounds exceeded any criteria													
	PESTICIDES/PCBS	(μ g/kg)		(μ g/kg)	(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)	
	No pesticides or PCBs were detected													
	INORGANICS	(mg/kg)		(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
C-SB-04	No inorganic analytes were detected above criteria													
	VOLATILES	(μ g/kg)		(μ g/kg)	(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)	
	No volatile organic compounds were detected													
	SEMI-VOLATILES	(μ g/kg)		(μ g/kg)	(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)	
	No semi-volatile organic compounds were detected													
	PESTICIDES/PCBS	(μ g/kg)		(μ g/kg)	(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)	
	No pesticides or PCBs were detected													
	INORGANICS	(mg/kg)		(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
	Arsenic	7.7		5.8	4.6		4.6		4.6		910		7.6	
	Chromium [III] (B,H) - assumed present*			18	1,000,000	D	1,000,000	D	3,000,000	G,X	150,000		790,000	
	Chromium [Total] (H) - analyzed (assume Cr III)*	23		18	30		30		3.3		240		2,500	
	Chromium [VI] - assumed not present*				30		30		3.3		240		2,500	
	Cobalt	14		6.8	0.8		2.0		2.0		5,900		2,600	
	Iron (B)	32,000		12,000	6.0		6.0		NA		ID		160,000	
	Manganese (B)	620		440	1.0		1.0		55	G,X	1,500		25,000	
C-SB-05	VOLATILES	(μ g/kg)		(μ g/kg)	(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)	
	No volatile organic compounds were detected													
	SEMI-VOLATILES	(μ g/kg)		(μ g/kg)	(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)	
	No semi-volatile organic compounds were detected													
	PESTICIDES/PCBS	(μ g/kg)		(μ g/kg)	(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)	
	No pesticides or PCBs were detected													
	INORGANICS	(mg/kg)		(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
	Arsenic	6.6		5.8	4.6		4.6		4.6		910		7.6	
	Chromium [III] (B,H) - assumed present*			18	1,000,000	D	1,000,000	D	3,000,000	G,X	150,000		790,000	
	Chromium [Total] (H) - analyzed (assume Cr III)*	21		18	30		30		3.3		240		2,500	
	Chromium [VI] - assumed not present*				30		30		3.3		240		2,500	
	Cobalt	14		6.8	0.8		2.0		2.0		5,900		2,600	
	Iron (B)	33,000		12,000	6.0		6.0		NA		ID		160,000	
	Manganese (B)	500		440	1.0		1.0		55	G,X	1,500		25,000	
	Molybdenum (B)	2.3			1.5		4.2		64	X	ID		2,600	

μ g/kg = microgram/kilogram mg/kg = milligram/kilogram

Qualifier definitions in Appendix D. Footnote definitions in Appendix E.

Shaded Criteria indicate an exceedance.

A blank Default Background column means that value has not been determined.

TABLE 4
SOIL BORING SAMPLE DATA SUMMARY

Sample Number	Hazardous Substance (Footnotes)	Sample Concentration	Qualifiers	Statewide Default Background Levels	Groundwater Protection					Ambient Air (Y)		Direct Contact		
					Residential Drinking Water Protection Criteria	Footnotes	Nonresidential Drinking Water Protection Criteria	Footnotes	Groundwater Surface Water Interface Protection Criteria	Footnotes	Nonresidential Particulate Soil Inhalation Criteria	Footnotes	Residential Direct Contact Criteria	Footnotes
C-SB-06	VOLATILES	(μ g/kg)		(μ g/kg)	(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)	
	No volatile organic compounds were detected													
	SEMI-VOLATILES	(μ g/kg)		(μ g/kg)	(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)	
	No semi-volatile organic compounds were detected													
	PESTICIDES/PCBS	(μ g/kg)		(μ g/kg)	(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)	
	No pesticides or PCBs were detected													
	INORGANICS	(mg/kg)		(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
	Arsenic	11		5.8	4.6		4.6		4.6		910		7.6	
	Chromium [III] (B,H) - assumed present*			18	1,000,000	D	1,000,000	D	3,000,000	G,X	150,000		790,000	
	Chromium [Total] (H) - analyzed (assume Cr III)*	19		18	30		30		3.3		240		2,500	
	Chromium [VI] - assumed not present*				30		30		3.3		240		2,500	
	Cobalt	12		6.8	0.8		2.0		2.0		5,900		2,600	
Iron (B)	29,000		12,000	6.0		6.0		NA		ID		160,000		
Manganese (B)	1,900		440	1.0		1.0		55	G,X	1,500		25,000		
Molybdenum (B)	2.2			1.5		4.2		64	X	ID		2,600		
C-SB-07	VOLATILES	(μ g/kg)		(μ g/kg)	(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)	
	No volatile organic compounds were detected													
	SEMI-VOLATILES	(μ g/kg)		(μ g/kg)	(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)	
	No semi-volatile organic compounds were detected													
	PESTICIDES/PCBS	(μ g/kg)		(μ g/kg)	(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)		(μ g/kg)	
	No pesticides or PCBs were detected													
	INORGANICS	(mg/kg)		(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
	Chromium [III] (B,H) - assumed present*			18	1,000,000	D	1,000,000	D	3,000,000	G,X	150,000		790,000	
	Chromium [Total] (H) - analyzed (assume Cr III)*	20		18	30		30		3.3		240		2,500	
	Chromium [VI] - assumed not present*				30		30		3.3		240		2,500	
	Cobalt	11		6.8	0.8		2.0		2.0		5,900		2,600	
	Iron (B)	27,000		12,000	6.0		6.0		NA		ID		160,000	
Manganese (B)	640		440	1.0		1.0		55	G,X	1,500		25,000		

μ g/kg = microgram/kilogram mg/kg = milligram/kilogram

Qualifier definitions in Appendix D. Footnote definitions in Appendix E.

Shaded Criteria indicate an exceedance.

A blank Default Background column means that value has not been determined.

TABLE 4
SOIL BORING SAMPLE DATA SUMMARY

Sample Number	Hazardous Substance (Footnotes)	Sample Concentration	Qualifiers	Statewide Default Background Levels	Groundwater Protection				Ambient Air (Y)		Direct Contact			
					Residential Drinking Water Protection Criteria	Footnotes	Nonresidential Drinking Water Protection Criteria	Footnotes	Groundwater Surface Water Interface Protection Criteria	Footnotes	Nonresidential Particulate Soil Inhalation Criteria	Footnotes	Residential Direct Contact Criteria	Footnotes
C-SB-08	VOLATILES	(μg/kg)		(μg/kg)	(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)	
	No volatile organic compounds were detected													
	SEMI-VOLATILES	(μg/kg)		(μg/kg)	(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)	
	No semi-volatile organic compounds were detected													
	PESTICIDES/PCBS	(μg/kg)		(μg/kg)	(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)	
	No pesticides or PCBs were detected													
	INORGANICS	(mg/kg)		(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
	Arsenic	10		5.8	4.6		4.6		4.6		910		7.6	
	Cobalt	10		6.8	0.8		2.0		2.0		5,900		2,600	
	Iron (B)	23,000		12,000	6.0		6.0		NA		ID		160,000	
Manganese (B)	470		440	1.0		1.0		55	G,X	1,500		25,000		
Molybdenum (B)	2.0			1.5		4.2		64	X	ID		2,600		
C-SB-09	VOLATILES	(μg/kg)		(μg/kg)	(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)	
	No volatile organic compounds were detected													
	SEMI-VOLATILES	(μg/kg)		(μg/kg)	(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)	
	No semi-volatile organic compounds were detected													
	PESTICIDES/PCBS	(μg/kg)		(μg/kg)	(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)	
	No pesticides or PCBs were detected													
	INORGANICS	(mg/kg)		(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
	Arsenic	7.0		5.8	4.6		4.6		4.6		910		7.6	
	Cobalt	11		6.8	0.8		2.0		2.0		5,900		2,600	
	Iron (B)	23,000		12,000	6.0		6.0		NA		ID		160,000	
C-SB-10	VOLATILES	(μg/kg)		(μg/kg)	(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)	
	No volatile organic compounds were detected													
	SEMI-VOLATILES	(μg/kg)		(μg/kg)	(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)	
	No semi-volatile organic compounds were detected													
	PESTICIDES/PCBS	(μg/kg)		(μg/kg)	(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)	
	No pesticides or PCBs were detected													
	INORGANICS	(mg/kg)		(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
	Arsenic	10		5.8	4.6		4.6		4.6		910		7.6	
	Chromium [III] (B,H) - assumed present*			18	1,000,000	D	1,000,000	D	3,000,000	G,X	150,000		790,000	
	Chromium [Total] (H) - analyzed (assume Cr III)*	22		18	30		30		3.3		240		2,500	
	Chromium [VI] - assumed not present*				30		30		3.3		240		2,500	
	Cobalt	15		6.8	0.8		2.0		2.0		5,900		2,600	
	Iron (B)	32,000		12,000	6.0		6.0		NA		ID		160,000	
	Manganese (B)	970		440	1.0		1.0		55	G,X	1,500		25,000	

μ g/kg = microgram/kilogram mg/kg = milligram/kilogram
Qualifier definitions in Appendix D. Footnote definitions in Appendix E.
Shaded Criteria indicate an exceedance.
A blank Default Background column means that value has not been determined.

TABLE 4
SOIL BORING SAMPLE DATA SUMMARY

Sample Number	Hazardous Substance (Footnotes)	Sample Concentration	Qualifiers	Statewide Default Background Levels	Groundwater Protection					Ambient Air (Y)		Direct Contact		
					Residential Drinking Water Protection Criteria	Footnotes	Nonresidential Drinking Water Protection Criteria	Footnotes	Groundwater Surface Water Interface Protection Criteria	Footnotes	Nonresidential Particulate Soil Inhalation Criteria	Footnotes	Residential Direct Contact Criteria	Footnotes
C-SB-11	VOLATILES	(μg/kg)		(μg/kg)	(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)	
	No volatile organic compounds were detected													
	SEMI-VOLATILES	(μg/kg)		(μg/kg)	(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)	
	No semi-volatile organic compounds were detected													
	PESTICIDES/PCBS	(μg/kg)		(μg/kg)	(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)	
	No pesticides or PCBs were detected													
	INORGANICS	(mg/kg)		(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
	Arsenic	6.4		5.8	4.6		4.6		4.6		910		7.6	
	Chromium [III] (B,H) - assumed present*			18	1,000,000	D	1,000,000	D	3,000,000	G,X	150,000		790,000	
	Chromium [Total] (H) - analyzed (assume Cr III)*	23		18	30		30		3.3		240		2,500	
	Chromium [VI] - assumed not present*				30		30		3.3		240		2,500	
	Cobalt	13		6.8	0.8		2.0		2.0		5,900		2,600	
Iron (B)	30,000		12,000	6.0		6.0		NA		ID		160,000		
Molybdenum (B)	2.2			1.5		4.2		64	X	ID		2,600		
C-SB-12	VOLATILES	(μg/kg)		(μg/kg)	(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)	
	No volatile organic compounds were detected													
	SEMI-VOLATILES	(μg/kg)		(μg/kg)	(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)	
	No semi-volatile organic compounds were detected													
	PESTICIDES/PCBS	(μg/kg)		(μg/kg)	(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)		(μg/kg)	
	No pesticides or PCBs were detected													
	INORGANICS	(mg/kg)		(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
	Arsenic	7.7		5.8	4.6		4.6		4.6		910		7.6	
	Chromium [III] (B,H) - assumed present*			18	1,000,000	D	1,000,000	D	3,000,000	G,X	150,000		790,000	
	Chromium [Total] (H) - analyzed (assume Cr III)*	27		18	30		30		3.3		240		2,500	
	Chromium [VI] - assumed not present*				30		30		3.3		240		2,500	
	Cobalt	14		6.8	0.8		2.0		2.0		5,900		2,600	
Iron (B)	34,000		12,000	6.0		6.0		NA		ID		160,000		
Manganese (B)	480		440	1.0		1.0		55	G,X	1,500		25,000		

Notes:

Exposure pathway columns with no criteria exceedances are hidden.

*Chromium III is naturally occurring and chromium VI is not naturally occurring.

*The total chromium analysis included both III and VI, but based on past Property uses without chromium VI sources, an assumption is made that the total chromium analysis includes only chromium III.

*Therefore, the 18 mg/kg background is also applied here to total chromium.

μ g/kg = microgram/kilogram mg/kg = milligram/kilogram

Qualifier definitions in Appendix D. Footnote definitions in Appendix E.

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ATTACHMENT D:
2024 SOIL BORING LOGS

**BORING NUMBER SB-1**

PAGE 1 OF 1

CLIENT Ginosko DevelopmentPROJECT NAME TriterraPROJECT NUMBER 23-3626PROJECT LOCATION 5250 Conner Street, Detroit, MichiganDATE STARTED 3/8/24COMPLETED 3/8/24

GROUND ELEVATION _____

HOLE SIZE 2DRILLING CONTRACTOR ERG

GROUND WATER LEVELS:

AT TIME OF DRILLING ---AT END OF DRILLING ---AFTER DRILLING ---DRILLING METHOD GeoprobeLOGGED BY Adam BishopCHECKED BY Jade Gillette

NOTES _____

TRITERRA BH WITH NO ELEVATION - PID.GDT - 3/26/24 10:55 - K11 - PROJECTS\23-3630 - SOULEMAN ENTERPRISES - 3002 LAPEER, PORT HURON FIELD NOTES - LOGS\TEMPLATE, GW AND SOIL SAMPLES.GPJ

DEPTH (ft)	SAMPLE NUMBER	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION	PID	WELL DIAGRAM
0				TOPSOIL.		
			SW	SAND. Fine to medium sand, trace silt, trace gravel, light brown, damp.		
	GB SB-1		CL-ML	FILL. Silty clay, some gravel, occasional pieces of brick, wood, concrete, brown. CLAY. Silty clay, trace gravel, brown to light brown to gray.	<1	
					<1	
5					<1	
					<1	
					<1	
10					<1	
					<1	
					<1	
15					<1	
					<1	
					<1	
20					<1	

Bottom of borehole at 20.0 feet.

**BORING NUMBER SB-2**

PAGE 1 OF 1

CLIENT Ginosko DevelopmentPROJECT NAME TriterraPROJECT NUMBER 23-3626PROJECT LOCATION 5250 Conner Street, Detroit, MichiganDATE STARTED 3/8/24COMPLETED 3/8/24

GROUND ELEVATION _____

HOLE SIZE 2DRILLING CONTRACTOR ERG

GROUND WATER LEVELS:

DRILLING METHOD GeoprobeAT TIME OF DRILLING ---LOGGED BY Adam BishopCHECKED BY Jade GilletteAT END OF DRILLING ---

NOTES _____

AFTER DRILLING ---

TRITERRA BH WITH NO ELEVATION - PID.GDT - 3/26/24 10:55 - K11 - PROJECTS\23-3630 - SOULEMAN ENTERPRISES - 3002 LAPEER, PORT HURON\FIELD NOTES - LOGS\TEMPLATE, GW AND SOIL SAMPLES.GPJ

DEPTH (ft)	SAMPLE NUMBER	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION	PID	WELL DIAGRAM
0				TOPSOIL.		
			SW	SAND. Fine to medium sand, some silt, trace gravel, light brown, damp.	<1	
				FILL. Silty clay, occasional pieces of brick and wood, brown.		
			CL-ML	CLAY. Silty clay, trace gravel, brown to light brown to gray.	<1	
5	 GB SB-2				<1	
					<1	
					<1	
10					<1	
				Bottom of borehole at 12.0 feet.		



AFTER DRILLING ---

RITERRA BH WITH NO ELEVATION - PID.GDT - 3/26/24 10:55 - K:11 PROJECTS\23-3630 - SOULEMAN ENTERPRISES - 3002 LAPEER, PORT HURON\FIELD NOTES - LOGS\TEMPLATE_GW AND SOIL SAMPLES.GPJ



PAGE 1 OF 1

CLIENT Ginosko Development

PROJECT NAME Triterra

PROJECT NUMBER 23-3626

PROJECT LOCATION 5250 Conner Street, Detroit, Michigan

DATE STARTED 3/8/24 COMPLETED 3/8/24

GROUND ELEVATION _____ HOLE SIZE 2

DRILLING CONTRACTOR ERG

GROUND WATER LEVELS:

DRILLING METHOD Geoprobe

AT TIME OF DRILLING ---

LOGGED BY Adam Bishop **CHECKED BY** Jade Gillette

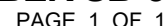
AT END OF DRILLING ---

NOTES _____

AFTER DRILLING

DEPTH (ft)	SAMPLE NUMBER	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION	PID	WELL DIAGRAM
0						
				TOPSOIL.		
				FILL. Sandy clay, some gravel, trace silt, occasional pieces of brick, concrete, wood, and asphalt, brown.	<1	
					<1	
5					<1	
					<1	
			CL-ML	CLAY. Silty clay, trace gravel, brown to gray.	<1	
10					<1	
				Bottom of borehole at 12.0 feet.		

TRITERRA BH WITH NO ELEVATION - PID.GDT - 3/26/24 10:55 - K:11 PROJECTS\23-3630 - SOULEMAN ENTERPRISES - 3002 LAPEER, PORT HURON\FIELD NOTES - LOGS\TEMPLATE GW AND SOIL SAMPLES.GPJ



AFTER DRILLING ---

TRITERRA BH WITH NO ELEVATION - PID GDT - 3/26/24 10:55 - K\1 - PROJECTS\23-3630 - SOULEMAN ENTERPRISES - 3002 LAPEER - PORT HURON\FIELD NOTES - LOGS\TEMPLATE GW AND SOIL SAMPLES.GPJ



AFTER DRILLING ---

RITERRA BH WITH NO ELEVATION - PID.GDT - 3/26/24 10:55 - K:1 PROJECTS\23-3630 - SOULEMAN ENTERPRISES - 3002 LAPEER, PORT HURON\FIELD NOTES - LOGS\TEMPLATE_GW AND SOIL SAMPLES.GPJ

**BORING NUMBER SB-7**

PAGE 1 OF 1

CLIENT Ginosko DevelopmentPROJECT NAME TriterraPROJECT NUMBER 23-3626PROJECT LOCATION 5250 Conner Street, Detroit, MichiganDATE STARTED 3/8/24COMPLETED 3/8/24

GROUND ELEVATION _____

HOLE SIZE 2DRILLING CONTRACTOR ERG

GROUND WATER LEVELS:

DRILLING METHOD GeoprobeAT TIME OF DRILLING ---LOGGED BY Adam BishopCHECKED BY Jade GilletteAT END OF DRILLING ---

NOTES _____

AFTER DRILLING ---

TRITERRA BH WITH NO ELEVATION - PID.GDT - 3/26/24 10:55 - K11 - PROJECTS\23-3630 - SOULEMAN ENTERPRISES - 3002 LAPEER, PORT HURON FIELD NOTES - LOGS\TEMPLATE, GW AND SOIL SAMPLES.GPJ

DEPTH (ft)	SAMPLE NUMBER	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION	PID	WELL DIAGRAM
0				TOPSOIL.		
				FILL. Fine to medium sand, some gravel, occasional pieces of brick, coal, and concrete.	<1	
	GB SB-7		CL-ML	CLAY. Silty clay, trace gravel, intermittent layers of sand at approximately 9', brown to light brown.	<1	
5					<1	
					<1	
10					<1	
				Bottom of borehole at 12.0 feet.		

**BORING NUMBER SB-8**

PAGE 1 OF 1

CLIENT Ginosko DevelopmentPROJECT NAME TriterraPROJECT NUMBER 23-3626PROJECT LOCATION 5250 Conner Street, Detroit, MichiganDATE STARTED 3/8/24COMPLETED 3/8/24

GROUND ELEVATION _____

HOLE SIZE 2DRILLING CONTRACTOR ERG

GROUND WATER LEVELS:

DRILLING METHOD GeoprobeAT TIME OF DRILLING ---LOGGED BY Adam BishopCHECKED BY Jade GilletteAT END OF DRILLING ---

NOTES _____

AFTER DRILLING ---

TRITERRA BH WITH NO ELEVATION - PID.GDT - 3/26/24 10:55 - K11 - PROJECTS\23-3630 - SOULEMAN ENTERPRISES - 3002 LAPEER, PORT HURON\FIELD NOTES - LOGS\TEMPLATE, GW AND SOIL SAMPLES.GPJ

DEPTH (ft)	SAMPLE NUMBER	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION	PID	WELL DIAGRAM
0						
				TOPSOIL.		
				CONCRETE.		
	 GB SB-8			FILL. Fine to medium sand, some gravel, occasional pieces of wood.	<1	
					<1	
			ML	SILT. Light brown, damp.	<1	
5			CL-ML	CLAY. Silty clay, trace gravel, brown.	<1	
					<1	
					<1	
10					<1	
				Bottom of borehole at 12.0 feet.		

**BORING NUMBER SB-9**

PAGE 1 OF 1

CLIENT Ginosko DevelopmentPROJECT NAME TriterraPROJECT NUMBER 23-3626PROJECT LOCATION 5250 Conner Street, Detroit, MichiganDATE STARTED 3/8/24COMPLETED 3/8/24

GROUND ELEVATION _____

HOLE SIZE 2DRILLING CONTRACTOR ERG

GROUND WATER LEVELS:

DRILLING METHOD GeoprobeAT TIME OF DRILLING ---LOGGED BY Adam BishopCHECKED BY Jade GilletteAT END OF DRILLING ---

NOTES _____

AFTER DRILLING ---

TRITERRA BH WITH NO ELEVATION - PID.GDT - 3/26/24 10:55 - K11 - PROJECTS\23-3630 - SOULEMAN ENTERPRISES - 3002 LAPEER, PORT HURON\FIELD NOTES - LOGS\TEMPLATE, GW AND SOIL SAMPLES.GPJ

DEPTH (ft)	SAMPLE NUMBER	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION	PID	WELL DIAGRAM
0				TOPSOIL.		
				FILL. Fine to medium sand, trace gravel, occasional pieces of brick.		
	 GB SB-9				<1	
			CL-ML	CLAY. Silty clay, trace gravel, dark brown to brown.		
5					<1	
					<1	
					<1	
10					<1	
					<1	
				Bottom of borehole at 12.0 feet.	<1	

**BORING NUMBER SB-10**

PAGE 1 OF 1

CLIENT Ginosko DevelopmentPROJECT NAME TriterraPROJECT NUMBER 23-3626PROJECT LOCATION 5250 Conner Street, Detroit, MichiganDATE STARTED 3/8/24COMPLETED 3/8/24

GROUND ELEVATION _____

HOLE SIZE 2DRILLING CONTRACTOR ERG

GROUND WATER LEVELS:

DRILLING METHOD GeoprobeAT TIME OF DRILLING ---LOGGED BY Adam BishopCHECKED BY Jade GilletteAT END OF DRILLING ---

NOTES _____

AFTER DRILLING ---

TRITERRA BH WITH NO ELEVATION - PID.GDT - 3/26/24 10:55 - K11 - PROJECTS\23-3630 - SOULEMAN ENTERPRISES - 3002 LAPEER, PORT HURON\FIELD NOTES - LOGS\TEMPLATE, GW AND SOIL SAMPLES.GPJ

DEPTH (ft)	SAMPLE NUMBER	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION	PID	WELL DIAGRAM
0				TOPSOIL.		
			SW	SAND. Fine to medium sand, trace gravel, intermittent layers of sandy at approximately 1.5', brown, damp.		
	GB SB-10		CL-ML	CLAY. Silty clay, some sand, trace gravel, dark brown.	<1	
					<1	
5			SW	SAND. Fine to medium sand, trace silt, brown, damp.		
			CL-ML	CLAY. Silty clay, trace gravel, light brown to gray.	<1	
					<1	
10					<1	
				Bottom of borehole at 12.0 feet.		



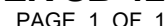
BORING NUMBER SB-11

PAGE 1 OF 1

CLIENT	Ginosko Development	PROJECT NAME	Triterra
PROJECT NUMBER	23-3626	PROJECT LOCATION	5250 Conner Street, Detroit, Michigan
DATE STARTED	3/8/24	COMPLETED	3/8/24
DRILLING CONTRACTOR	ERG	GROUND ELEVATION	
DRILLING METHOD	Geoprobe	HOLE SIZE	2
LOGGED BY	Adam Bishop	CHECKED BY	Jade Gillette
NOTES			
GROUND WATER LEVELS:			
AT TIME OF DRILLING		---	
AT END OF DRILLING		---	
AFTER DRILLING		---	

TRITERRA BH WITH NO ELEVATION - PID.GDT - 3/26/24 10:55 - K11 - PROJECTS\23-3630 - SOULEMAN ENTERPRISES - 3002 LAPEER, PORT HURON\FIELD NOTES - LOGS\TEMPLATE, GW AND SOIL SAMPLES.GPJ

DEPTH (ft)	SAMPLE NUMBER	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION	PID	WELL DIAGRAM
0				TOPSOIL.		
			CL	CLAY. Sandy clay, trace gravel, brown.	<1	
					<1	
			SW	SAND. Fine to medium sand, trace gravel, brown, damp to moist.	<1	
5			CL-ML	CLAY. Silty clay, trace gravel, intermittent layers of sand at approximately 8.5', brown to gray.	<1	
					<1	
					<1	
10					<1	
					<1	
					<1	
15					<1	
				Bottom of borehole at 16.0 feet.		



AFTER DRILLING ---

TRITERRA BH WITH NO ELEVATION - PID GDT - 3/26/24 10:55 - K\1 - PROJECTS\23-3630 - SOULEMAN ENTERPRISES - 3002 LAPEER - PORT HURON\FIELD NOTES - LOGS\TEMPLATE GW AND SOIL SAMPLES.GPJ

**BORING NUMBER SB-13**

PAGE 1 OF 1

CLIENT Ginosko DevelopmentPROJECT NAME TriterraPROJECT NUMBER 23-3626PROJECT LOCATION 5250 Conner Street, Detroit, MichiganDATE STARTED 3/8/24COMPLETED 3/8/24

GROUND ELEVATION _____

HOLE SIZE 2DRILLING CONTRACTOR ERG

GROUND WATER LEVELS:

DRILLING METHOD GeoprobeAT TIME OF DRILLING ---LOGGED BY Adam BishopCHECKED BY Jade GilletteAT END OF DRILLING ---

NOTES _____

AFTER DRILLING ---

TRITERRA BH WITH NO ELEVATION - PID.GDT - 3/26/24 10:55 - K11 - PROJECTS\23-3630 - SOULEMAN ENTERPRISES - 3002 LAPEER, PORT HURON\FIELD NOTES - LOGS\TEMPLATE, GW AND SOIL SAMPLES.GPJ

DEPTH (ft)	SAMPLE NUMBER	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION	PID	WELL DIAGRAM
0				TOPSOIL.		
				FILL. Sandy clay, some gravel, occasional pieces of brick, brown to dark brown.		
	GB SB-13				<1	
			SM	SAND. Silty sand, trace gravel, brown, damp.		
			CL-ML	CLAY. Silty clay, trace gravel, brown to gray.	<1	
5					<1	
					<1	
10					<1	
					<1	
				Bottom of borehole at 12.0 feet.		



BORING NUMBER SB-14

PAGE 1 OF 1

CLIENT Ginosko Development

PROJECT NAME Triterra

PROJECT NUMBER 23-3626

PROJECT LOCATION 5250 Conner Street, Detroit, Michigan

DATE STARTED 3/8/24 COMPLETED 3/8/24

GROUND ELEVATION _____ HOLE SIZE 2

DRILLING CONTRACTOR ERG

GROUND WATER LEVELS:

DRILLING METHOD Geoprobe

AT TIME OF DRILLING ---

LOGGED BY Adam Bishop CHECKED BY Jade Gillette

AT END OF DRILLING ---

NOTES _____

AFTER DRILLING ---

TRITERRA BH WITH NO ELEVATION - PID.GDT - 3/26/24 10:55 - K11 - PROJECTS\23-3630 - SOULEMAN ENTERPRISES - 3002 LAPEER, PORT HURON\FIELD NOTES - LOGS\TEMPLATE, GW AND SOIL SAMPLES.GPJ

DEPTH (ft)	SAMPLE NUMBER	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION	PID	WELL DIAGRAM
0				TOPSOIL.		
			SW	SAND. Fine to medium sand, trace gravel, brown, damp.	<1	
					<1	
			CL-ML	CLAY. Silty clay, brown to gray.	<1	
5					<1	
					<1	
10					<1	
					<1	
				Bottom of borehole at 12.0 feet.		

**BORING NUMBER SB-15**

PAGE 1 OF 1

CLIENT Ginosko DevelopmentPROJECT NAME TriterraPROJECT NUMBER 23-3626PROJECT LOCATION 5250 Conner Street, Detroit, MichiganDATE STARTED 3/8/24COMPLETED 3/8/24

GROUND ELEVATION _____

HOLE SIZE 2DRILLING CONTRACTOR ERG

GROUND WATER LEVELS:

DRILLING METHOD GeoprobeAT TIME OF DRILLING ---LOGGED BY Adam BishopCHECKED BY Jade GilletteAT END OF DRILLING ---

NOTES _____

AFTER DRILLING ---

TRITERRA BH WITH NO ELEVATION - PID.GDT - 3/26/24 10:55 - K11 - PROJECTS\23-3630 - SOULEMAN ENTERPRISES - 3002 LAPEER, PORT HURON\FIELD NOTES - LOGS\TEMPLATE, GW AND SOIL SAMPLES.GPJ

DEPTH (ft)	SAMPLE NUMBER	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION	PID	WELL DIAGRAM
0				TOPSOIL.		
				FILL. Sandy clay, some gravel, occasional pieces of concrete, brick, and glass.	<1	
5	 GB SB-15				<1	
			CL-ML	CLAY. Silty clay, some sand, dark brown to brown.	<1	
10					<1	
				Bottom of borehole at 12.0 feet.	<1	



ATTACHMENT E:

2024 LABORATORY ANALYTICAL RESULTS



Analytical Laboratory Report

Report ID: S59676.01(01)
Generated on 03/15/2024

Report to
Attention: Adam Bishop
TriTerra
1375 S. Washington Avenue, Suite 100
Lansing, MI 48910

Phone: 210-749-2704 FAX:
Email: Adam.Bishop@triterra.us

Additional Contacts: Brad Buswell

Report produced by
Merit Laboratories, Inc.
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Contacts for report questions:
John Lavery (johnlavery@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary
Lab Sample ID(s): S59676.01-S59676.15
Project: 23-3626 / 5250 Conner Ave
Collected Date(s): 03/08/2024
Submitted Date/Time: 03/12/2024 11:50
Sampled by: Adam Bishop
P.O. #:

Table of Contents

- Cover Page (Page 1)
- General Report Notes (Page 2)
- Report Narrative (Page 2)
- Laboratory Accreditations (Page 3)
- Qualifier Descriptions (Page 3)
- Glossary of Abbreviations (Page 3)
- Method Summary (Page 4)
- Sample Summary (Page 5)


Maya Murshak
Technical Director



Analytical Laboratory Report

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).

When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.

40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile, and 2-chloroethylvinyl ether need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.

QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.

Starred (*) analytes are not NY NELAP accredited.

Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."

Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.

Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

All accreditations/certifications held by this laboratory are listed on page 3. Not all accreditations/certifications are applicable to this report.

For a specific list of accredited analytes, please feel free to contact the laboratory or visit <https://www.meritlabs.com/certifications>.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Accreditations (For Reference Only)

Authority	Accreditation ID
Michigan DEQ	#9956
DOD ELAP & ISO/IEC 17025:2017	#69699 PJLA Testing
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched



Analytical Laboratory Report

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2015
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW5035A	SW 846 Method 5035A Revision 1 July 2002
SW5035A/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5035A Revision 1 July 2002
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW7471B	SW 846 Method 7471B Revision 2 February 2007
SW8270D	SW 846 Method 8270D Revision 4 February 2007



Analytical Laboratory Report

Sample Summary (15 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S59676.01	SB-1 2-2.5'	Soil	03/08/24 00:01
S59676.02	SB-2 4-5'	Soil	03/08/24 00:01
S59676.03	SB-3 1-2'	Soil	03/08/24 00:01
S59676.04	SB-4 7-8'	Soil	03/08/24 00:01
S59676.05	SB-5 0-1'	Soil	03/08/24 00:01
S59676.06	SB-6 3-4'	Soil	03/08/24 00:01
S59676.07	SB-7 2-3'	Soil	03/08/24 00:01
S59676.08	SB-8 1-2'	Soil	03/08/24 00:01
S59676.09	SB-9 2-3'	Soil	03/08/24 00:01
S59676.10	SB-10 2.5-3.5'	Soil	03/08/24 00:01
S59676.11	SB-11 3-4'	Soil	03/08/24 00:01
S59676.12	SB-12 1-2'	Soil	03/08/24 00:01
S59676.13	SB-13 2-3'	Soil	03/08/24 00:01
S59676.14	SB-14 1-2'	Soil	03/08/24 00:01
S59676.15	SB-15 4-5'	Soil	03/08/24 00:01



Analytical Laboratory Report

Lab Sample ID: S59676.01
Sample Tag: SB-1 2-2.5'
Collected Date/Time: 03/08/2024 00:01
Matrix: Soil
COC Reference: 168457

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40mL Glass	MeOH	Yes	4.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/14/24 10:20	JRH	
PNA Extraction*	Completed	SW3546	03/12/24 14:30	JWR	
Sample wt. (g) / Methanol (ml)*	11.479/11	SW5035A	03/12/24 15:02	ACK	
Mercury Digestion	Completed	SW7471B	03/13/24 10:32	CTV	

Inorganics

Method: SM2540B, Run Date: 03/13/24 13:04, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1		%	1		

Metals

Method: SW6020A, Run Date: 03/14/24 12:07, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	6,180	200		ug/kg	274	7440-38-2	
Barium	64,500	1,000		ug/kg	274	7440-39-3	
Cadmium	240	200		ug/kg	274	7440-43-9	
Chromium	13,100	500		ug/kg	274	7440-47-3	
Copper	18,000	500		ug/kg	274	7440-50-8	
Lead	15,900	300		ug/kg	274	7439-92-1	
Selenium	Not detected	400		ug/kg	274	7782-49-2	
Silver	Not detected	200		ug/kg	274	7440-22-4	
Zinc	53,700	500		ug/kg	274	7440-66-6	

Method: SW7471B, Run Date: 03/13/24 13:32, Analyst: CTV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	50		ug/kg	65	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/13/24 22:28, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	3,000	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	5,800	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	8,300	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	7,300	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	13,100	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	14,700	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	2,800	300		ug/kg	10	191-24-2	
Chrysene	7,600	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	500	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S59676.01 (continued)

Sample Tag: SB-1 2-2.5'

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/13/24 22:28, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	19,400	300		ug/kg	10	206-44-0	
Fluorene	3,500	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	2,900	300		ug/kg	10	193-39-5	
Naphthalene	3,500	300		ug/kg	10	91-20-3	
Phenanthrene	19,000	300		ug/kg	10	85-01-8	
Pyrene	15,100	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	900	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	600	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 02:07, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	66.6	60-29-7	
Acetone	Not detected	1,000		ug/kg	66.6	67-64-1	
Methyl iodide	Not detected	100		ug/kg	66.6	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	66.6	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	66.6	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	66.6	107-13-1	
2-Butanone (MEK)	Not detected	1,000		ug/kg	66.6	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	66.6	75-71-8	
Chloromethane	Not detected	300		ug/kg	66.6	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	66.6	75-01-4	
Bromomethane	Not detected	300		ug/kg	66.6	74-83-9	
Chloroethane	Not detected	300		ug/kg	66.6	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	66.6	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	66.6	75-35-4	
Methylene chloride	Not detected	100		ug/kg	66.6	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	66.6	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	66.6	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	66.6	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	66.6	109-99-9	
Chloroform	Not detected	70		ug/kg	66.6	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	66.6	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	66.6	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	66.6	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	66.6	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	66.6	56-23-5	
Benzene	Not detected	70		ug/kg	66.6	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	66.6	107-06-2	
Trichloroethene	Not detected	70		ug/kg	66.6	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	66.6	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	66.6	75-27-4	
Dibromomethane	Not detected	300		ug/kg	66.6	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	66.6	10061-01-5	
Toluene	Not detected	70		ug/kg	66.6	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	66.6	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	66.6	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	66.6	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	66.6	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	66.6	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S59676.01 (continued)
Sample Tag: SB-1 2-2.5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 02:07, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	30		ug/kg	66.6	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	66.6	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	66.6	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	66.6	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	66.6		
o-Xylene	Not detected	70		ug/kg	66.6	95-47-6	
Styrene	Not detected	70		ug/kg	66.6	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	66.6	98-82-8	
Bromoform	Not detected	100		ug/kg	66.6	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	66.6	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	66.6	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	66.6	103-65-1	
Bromobenzene	Not detected	100		ug/kg	66.6	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	66.6	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	66.6	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	66.6	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	66.6	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	66.6	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	66.6	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	66.6	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	66.6	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	66.6	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	66.6	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	66.6	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	66.6	96-12-8	
1,2,4-Trichlorobenzene	Not detected	440		ug/kg	66.6	120-82-1	
1,2,3-Trichlorobenzene	Not detected	440		ug/kg	66.6	87-61-6	
Naphthalene	900	300		ug/kg	66.6	91-20-3	
2-Methylnaphthalene	300	100		ug/kg	66.6	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S59676.02
Sample Tag: SB-2 4-5'
Collected Date/Time: 03/08/2024 00:01
Matrix: Soil
COC Reference: 168457

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40mL Glass	MeOH	Yes	4.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/14/24 10:20	JRH	
PNA Extraction*	Completed	SW3546	03/12/24 14:30	JWR	
Sample wt. (g) / Methanol (ml)*	10.759/10	SW5035A	03/12/24 15:02	ACK	
Mercury Digestion	Completed	SW7471B	03/13/24 10:32	CTV	

Inorganics

Method: SM2540B, Run Date: 03/13/24 13:04, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1		%	1		

Metals

Method: SW6020A, Run Date: 03/14/24 12:09, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	5,180	200		ug/kg	260	7440-38-2	
Barium	100,000	1,000		ug/kg	260	7440-39-3	
Cadmium	290	200		ug/kg	260	7440-43-9	
Chromium	18,200	500		ug/kg	260	7440-47-3	
Copper	16,000	500		ug/kg	260	7440-50-8	
Lead	12,600	300		ug/kg	260	7439-92-1	
Selenium	Not detected	400		ug/kg	260	7782-49-2	
Silver	Not detected	200		ug/kg	260	7440-22-4	
Zinc	59,300	500		ug/kg	260	7440-66-6	

Method: SW7471B, Run Date: 03/13/24 13:36, Analyst: CTV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	50		ug/kg	67	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/13/24 18:44, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	700	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	600	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	1,000	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	1,200	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	700	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S59676.02 (continued)

Sample Tag: SB-2 4-5'

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/13/24 18:44, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	1,400	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	900	300		ug/kg	10	85-01-8	
Pyrene	1,100	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 02:31, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	67.6	60-29-7	
Acetone	Not detected	1,000		ug/kg	67.6	67-64-1	
Methyl iodide	Not detected	100		ug/kg	67.6	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	67.6	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	67.6	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	67.6	107-13-1	
2-Butanone (MEK)	Not detected	1,000		ug/kg	67.6	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	67.6	75-71-8	
Chloromethane	Not detected	300		ug/kg	67.6	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	67.6	75-01-4	
Bromomethane	Not detected	300		ug/kg	67.6	74-83-9	
Chloroethane	Not detected	300		ug/kg	67.6	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	67.6	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	67.6	75-35-4	
Methylene chloride	Not detected	100		ug/kg	67.6	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	67.6	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	67.6	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	67.6	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	67.6	109-99-9	
Chloroform	Not detected	70		ug/kg	67.6	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	67.6	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	67.6	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	67.6	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	67.6	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	67.6	56-23-5	
Benzene	Not detected	70		ug/kg	67.6	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	67.6	107-06-2	
Trichloroethene	Not detected	70		ug/kg	67.6	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	67.6	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	67.6	75-27-4	
Dibromomethane	Not detected	300		ug/kg	67.6	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	67.6	10061-01-5	
Toluene	Not detected	70		ug/kg	67.6	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	67.6	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	67.6	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	67.6	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	67.6	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	67.6	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S59676.02 (continued)

Sample Tag: SB-2 4-5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 02:31, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	30		ug/kg	67.6	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	67.6	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	67.6	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	67.6	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	67.6		
o-Xylene	Not detected	70		ug/kg	67.6	95-47-6	
Styrene	Not detected	70		ug/kg	67.6	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	67.6	98-82-8	
Bromoform	Not detected	100		ug/kg	67.6	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	67.6	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	67.6	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	67.6	103-65-1	
Bromobenzene	Not detected	100		ug/kg	67.6	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	67.6	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	67.6	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	67.6	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	67.6	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	67.6	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	67.6	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	67.6	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	67.6	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	67.6	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	67.6	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	67.6	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	67.6	96-12-8	
1,2,4-Trichlorobenzene	Not detected	450		ug/kg	67.6	120-82-1	
1,2,3-Trichlorobenzene	Not detected	450		ug/kg	67.6	87-61-6	
Naphthalene	Not detected	300		ug/kg	67.6	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	67.6	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S59676.03
Sample Tag: SB-3 1-2'
Collected Date/Time: 03/08/2024 00:01
Matrix: Soil
COC Reference: 168457

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40mL Glass	MeOH	Yes	4.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/14/24 10:20	JRH	
PNA Extraction*	Completed	SW3546	03/12/24 14:30	JWR	
Sample wt. (g) / Methanol (ml)*	10.341/10	SW5035A	03/12/24 15:02	ACK	
Mercury Digestion	Completed	SW7471B	03/13/24 10:32	CTV	

Inorganics

Method: SM2540B, Run Date: 03/13/24 13:04, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Metals

Method: SW6020A, Run Date: 03/14/24 12:11, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	4,600	200		ug/kg	240	7440-38-2	
Barium	12,100	1,000		ug/kg	240	7440-39-3	
Cadmium	Not detected	200		ug/kg	240	7440-43-9	
Chromium	4,910	500		ug/kg	240	7440-47-3	
Copper	6,820	500		ug/kg	240	7440-50-8	
Lead	4,360	300		ug/kg	240	7439-92-1	
Selenium	Not detected	400		ug/kg	240	7782-49-2	
Silver	Not detected	200		ug/kg	240	7440-22-4	
Zinc	20,100	500		ug/kg	240	7440-66-6	

Method: SW7471B, Run Date: 03/13/24 13:39, Analyst: CTV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	50		ug/kg	68	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/13/24 19:02, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S59676.03 (continued)

Sample Tag: SB-3 1-2'

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/13/24 19:02, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 02:55, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	60.5	60-29-7	
Acetone	Not detected	1,000		ug/kg	60.5	67-64-1	
Methyl iodide	Not detected	100		ug/kg	60.5	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	60.5	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	60.5	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	60.5	107-13-1	
2-Butanone (MEK)	Not detected	910		ug/kg	60.5	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	60.5	75-71-8	
Chloromethane	Not detected	300		ug/kg	60.5	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	60.5	75-01-4	
Bromomethane	Not detected	200		ug/kg	60.5	74-83-9	
Chloroethane	Not detected	300		ug/kg	60.5	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	60.5	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	60.5	75-35-4	
Methylene chloride	Not detected	100		ug/kg	60.5	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	60.5	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	60.5	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	60.5	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	60.5	109-99-9	
Chloroform	Not detected	60		ug/kg	60.5	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	60.5	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	60.5	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	60.5	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	60.5	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	60.5	56-23-5	
Benzene	Not detected	60		ug/kg	60.5	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	60.5	107-06-2	
Trichloroethene	Not detected	60		ug/kg	60.5	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	60.5	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	60.5	75-27-4	
Dibromomethane	Not detected	300		ug/kg	60.5	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	60.5	10061-01-5	
Toluene	Not detected	60		ug/kg	60.5	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	60.5	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	60.5	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	60.5	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	60.5	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	60.5	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	60.5	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S59676.03 (continued)
Sample Tag: SB-3 1-2'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 02:55, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	60		ug/kg	60.5	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	60.5	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	60.5	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	60.5		
o-Xylene	Not detected	60		ug/kg	60.5	95-47-6	
Styrene	Not detected	60		ug/kg	60.5	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	60.5	98-82-8	
Bromoform	Not detected	100		ug/kg	60.5	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	60.5	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	60.5	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	60.5	103-65-1	
Bromobenzene	Not detected	100		ug/kg	60.5	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	60.5	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	60.5	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	60.5	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	60.5	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	60.5	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	60.5	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	60.5	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	60.5	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	60.5	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	60.5	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	60.5	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	60.5	96-12-8	
1,2,4-Trichlorobenzene	Not detected	400		ug/kg	60.5	120-82-1	
1,2,3-Trichlorobenzene	Not detected	400		ug/kg	60.5	87-61-6	
Naphthalene	Not detected	300		ug/kg	60.5	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	60.5	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S59676.04
Sample Tag: SB-4 7-8'
Collected Date/Time: 03/08/2024 00:01
Matrix: Soil
COC Reference: 168457

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40mL Glass	MeOH	Yes	4.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/14/24 10:20	JRH	
PNA Extraction*	Completed	SW3546	03/12/24 14:30	JWR	
Sample wt. (g) / Methanol (ml)*	10.181/10	SW5035A	03/12/24 15:02	ACK	
Mercury Digestion	Completed	SW7471B	03/13/24 10:32	CTV	

Inorganics

Method: SM2540B, Run Date: 03/13/24 13:04, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Metals

Method: SW6020A, Run Date: 03/14/24 12:14, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	8,730	200		ug/kg	265	7440-38-2	
Barium	53,300	1,000		ug/kg	265	7440-39-3	
Cadmium	310	200		ug/kg	265	7440-43-9	
Chromium	10,500	500		ug/kg	265	7440-47-3	
Copper	29,000	500		ug/kg	265	7440-50-8	
Lead	443,000	300		ug/kg	265	7439-92-1	
Selenium	Not detected	400		ug/kg	265	7782-49-2	
Silver	Not detected	200		ug/kg	265	7440-22-4	
Zinc	71,500	500		ug/kg	265	7440-66-6	

Method: SW7471B, Run Date: 03/13/24 13:42, Analyst: CTV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	50		ug/kg	70	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/13/24 23:02, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	3,500	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	7,700	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	11,900	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	9,900	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	18,700	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	21,000	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	3,800	300		ug/kg	10	191-24-2	
Chrysene	11,000	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	700	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S59676.04 (continued)

Sample Tag: SB-4 7-8'

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/13/24 23:02, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	26,900	300		ug/kg	10	206-44-0	
Fluorene	4,400	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	3,900	300		ug/kg	10	193-39-5	
Naphthalene	4,100	300		ug/kg	10	91-20-3	
Phenanthrene	25,300	300		ug/kg	10	85-01-8	
Pyrene	22,100	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	1,300	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	1,000	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 03:19, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	69.4	60-29-7	
Acetone	Not detected	1,000		ug/kg	69.4	67-64-1	
Methyl iodide	Not detected	100		ug/kg	69.4	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	69.4	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	69.4	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	69.4	107-13-1	
2-Butanone (MEK)	Not detected	1,000		ug/kg	69.4	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	69.4	75-71-8	
Chloromethane	Not detected	300		ug/kg	69.4	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	69.4	75-01-4	
Bromomethane	Not detected	300		ug/kg	69.4	74-83-9	
Chloroethane	Not detected	300		ug/kg	69.4	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	69.4	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	69.4	75-35-4	
Methylene chloride	Not detected	100		ug/kg	69.4	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	69.4	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	69.4	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	69.4	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	69.4	109-99-9	
Chloroform	Not detected	70		ug/kg	69.4	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	69.4	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	69.4	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	69.4	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	69.4	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	69.4	56-23-5	
Benzene	Not detected	70		ug/kg	69.4	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	69.4	107-06-2	
Trichloroethene	Not detected	70		ug/kg	69.4	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	69.4	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	69.4	75-27-4	
Dibromomethane	Not detected	300		ug/kg	69.4	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	69.4	10061-01-5	
Toluene	Not detected	70		ug/kg	69.4	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	69.4	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	69.4	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	69.4	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	69.4	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	69.4	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S59676.04 (continued)

Sample Tag: SB-4 7-8'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 03:19, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	30		ug/kg	69.4	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	69.4	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	69.4	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	69.4	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	69.4		
o-Xylene	Not detected	70		ug/kg	69.4	95-47-6	
Styrene	Not detected	70		ug/kg	69.4	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	69.4	98-82-8	
Bromoform	Not detected	100		ug/kg	69.4	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	69.4	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	69.4	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	69.4	103-65-1	
Bromobenzene	Not detected	100		ug/kg	69.4	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	69.4	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	69.4	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	69.4	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	69.4	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	69.4	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	69.4	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	69.4	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	69.4	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	69.4	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	69.4	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	69.4	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	69.4	96-12-8	
1,2,4-Trichlorobenzene	Not detected	460		ug/kg	69.4	120-82-1	
1,2,3-Trichlorobenzene	Not detected	460		ug/kg	69.4	87-61-6	
Naphthalene	1,900	300		ug/kg	69.4	91-20-3	
2-Methylnaphthalene	700	100		ug/kg	69.4	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S59676.05
Sample Tag: SB-5 0-1'
Collected Date/Time: 03/08/2024 00:01
Matrix: Soil
COC Reference: 168457

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40mL Glass	MeOH	Yes	4.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/14/24 10:20	JRH	
PNA Extraction*	Completed	SW3546	03/12/24 14:30	JWR	
Sample wt. (g) / Methanol (ml)*	9.425/10	SW5035A	03/12/24 15:02	ACK	
Mercury Digestion	Completed	SW7471B	03/13/24 10:32	CTV	

Inorganics

Method: SM2540B, Run Date: 03/13/24 13:04, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1		%	1		

Metals

Method: SW6020A, Run Date: 03/14/24 12:16, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	7,090	200		ug/kg	295	7440-38-2	
Barium	54,600	1,000		ug/kg	295	7440-39-3	
Cadmium	280	200		ug/kg	295	7440-43-9	
Chromium	13,100	500		ug/kg	295	7440-47-3	
Copper	16,600	500		ug/kg	295	7440-50-8	
Lead	29,600	300		ug/kg	295	7439-92-1	
Selenium	Not detected	400		ug/kg	295	7782-49-2	
Silver	Not detected	200		ug/kg	295	7440-22-4	
Zinc	58,600	500		ug/kg	295	7440-66-6	

Method: SW7471B, Run Date: 03/13/24 13:46, Analyst: CTV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	58	50		ug/kg	71	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/13/24 21:19, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	400	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	800	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	1,800	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	1,600	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	3,100	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	3,500	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	700	300		ug/kg	10	191-24-2	
Chrysene	1,800	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S59676.05 (continued)

Sample Tag: SB-5 0-1'

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/13/24 21:19, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	4,300	300		ug/kg	10	206-44-0	
Fluorene	400	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	700	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	3,300	300		ug/kg	10	85-01-8	
Pyrene	3,300	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 03:43, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	78.8	60-29-7	
Acetone	Not detected	2,000		ug/kg	78.8	67-64-1	
Methyl iodide	Not detected	200		ug/kg	78.8	74-88-4	
Carbon disulfide	Not detected	400		ug/kg	78.8	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	78.8	1634-04-4	
Acrylonitrile	Not detected	200		ug/kg	78.8	107-13-1	
2-Butanone (MEK)	Not detected	1,200		ug/kg	78.8	78-93-3	
Dichlorodifluoromethane	Not detected	400		ug/kg	78.8	75-71-8	
Chloromethane	Not detected	400		ug/kg	78.8	74-87-3	
Vinyl chloride	Not detected	80		ug/kg	78.8	75-01-4	
Bromomethane	Not detected	300		ug/kg	78.8	74-83-9	
Chloroethane	Not detected	400		ug/kg	78.8	75-00-3	
Trichlorofluoromethane	Not detected	200		ug/kg	78.8	75-69-4	
1,1-Dichloroethene	Not detected	80		ug/kg	78.8	75-35-4	
Methylene chloride	Not detected	200		ug/kg	78.8	75-09-2	
trans-1,2-Dichloroethene	Not detected	80		ug/kg	78.8	156-60-5	
1,1-Dichloroethane	Not detected	80		ug/kg	78.8	75-34-3	
cis-1,2-Dichloroethene	Not detected	80		ug/kg	78.8	156-59-2	
Tetrahydrofuran*	Not detected	2,000		ug/kg	78.8	109-99-9	
Chloroform	Not detected	80		ug/kg	78.8	67-66-3	
Bromochloromethane	Not detected	200		ug/kg	78.8	74-97-5	
1,1,1-Trichloroethane	Not detected	80		ug/kg	78.8	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	4,000		ug/kg	78.8	108-10-1	
2-Hexanone	Not detected	4,000		ug/kg	78.8	591-78-6	
Carbon tetrachloride	Not detected	80		ug/kg	78.8	56-23-5	
Benzene	Not detected	80		ug/kg	78.8	71-43-2	
1,2-Dichloroethane	Not detected	80		ug/kg	78.8	107-06-2	
Trichloroethene	Not detected	80		ug/kg	78.8	79-01-6	
1,2-Dichloropropane	Not detected	80		ug/kg	78.8	78-87-5	
Bromodichloromethane	Not detected	200		ug/kg	78.8	75-27-4	
Dibromomethane	Not detected	400		ug/kg	78.8	74-95-3	
cis-1,3-Dichloropropene	Not detected	80		ug/kg	78.8	10061-01-5	
Toluene	Not detected	80		ug/kg	78.8	108-88-3	
trans-1,3-Dichloropropene	Not detected	80		ug/kg	78.8	10061-02-6	
1,1,2-Trichloroethane	Not detected	80		ug/kg	78.8	79-00-5	
Tetrachloroethene	Not detected	80		ug/kg	78.8	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	80		ug/kg	78.8	110-57-6	
Dibromochloromethane	Not detected	200		ug/kg	78.8	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S59676.05 (continued)

Sample Tag: SB-5 0-1'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 03:43, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	30		ug/kg	78.8	106-93-4	M
Chlorobenzene	Not detected	80		ug/kg	78.8	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	200		ug/kg	78.8	630-20-6	
Ethylbenzene	Not detected	80		ug/kg	78.8	100-41-4	
p,m-Xylene	Not detected	200		ug/kg	78.8		
o-Xylene	Not detected	80		ug/kg	78.8	95-47-6	
Styrene	Not detected	80		ug/kg	78.8	100-42-5	
Isopropylbenzene	Not detected	400		ug/kg	78.8	98-82-8	
Bromoform	Not detected	200		ug/kg	78.8	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	80		ug/kg	78.8	79-34-5	
1,2,3-Trichloropropane	Not detected	200		ug/kg	78.8	96-18-4	
n-Propylbenzene	Not detected	80		ug/kg	78.8	103-65-1	
Bromobenzene	Not detected	200		ug/kg	78.8	108-86-1	
1,3,5-Trimethylbenzene	Not detected	80		ug/kg	78.8	108-67-8	
tert-Butylbenzene	Not detected	80		ug/kg	78.8	98-06-6	
1,2,4-Trimethylbenzene	Not detected	80		ug/kg	78.8	95-63-6	
sec-Butylbenzene	Not detected	80		ug/kg	78.8	135-98-8	
p-Isopropyltoluene	Not detected	200		ug/kg	78.8	99-87-6	
1,3-Dichlorobenzene	Not detected	200		ug/kg	78.8	541-73-1	
1,4-Dichlorobenzene	Not detected	200		ug/kg	78.8	106-46-7	
1,2-Dichlorobenzene	Not detected	200		ug/kg	78.8	95-50-1	
1,2,3-Trimethylbenzene	Not detected	80		ug/kg	78.8	526-73-8	
n-Butylbenzene	Not detected	80		ug/kg	78.8	104-51-8	
Hexachloroethane	Not detected	500		ug/kg	78.8	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	400		ug/kg	78.8	96-12-8	
1,2,4-Trichlorobenzene	Not detected	520		ug/kg	78.8	120-82-1	
1,2,3-Trichlorobenzene	Not detected	520		ug/kg	78.8	87-61-6	
Naphthalene	Not detected	400		ug/kg	78.8	91-20-3	
2-Methylnaphthalene	Not detected	200		ug/kg	78.8	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S59676.06
Sample Tag: SB-6 3-4'
Collected Date/Time: 03/08/2024 00:01
Matrix: Soil
COC Reference: 168457

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40mL Glass	MeOH	Yes	4.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/14/24 10:20	JRH	
PNA Extraction*	Completed	SW3546	03/12/24 14:30	JWR	
Sample wt. (g) / Methanol (ml)*	10.714/10	SW5035A	03/12/24 15:02	ACK	
Mercury Digestion	Completed	SW7471B	03/13/24 10:32	CTV	

Inorganics

Method: SM2540B, Run Date: 03/13/24 13:04, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1		%	1		

Metals

Method: SW6020A, Run Date: 03/14/24 12:18, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	10,300	200		ug/kg	286	7440-38-2	
Barium	128,000	1,000		ug/kg	286	7440-39-3	
Cadmium	780	200		ug/kg	286	7440-43-9	
Chromium	9,180	500		ug/kg	286	7440-47-3	
Copper	36,800	500		ug/kg	286	7440-50-8	
Lead	109,000	300		ug/kg	286	7439-92-1	
Selenium	Not detected	400		ug/kg	286	7782-49-2	
Silver	Not detected	200		ug/kg	286	7440-22-4	
Zinc	106,000	500		ug/kg	286	7440-66-6	

Method: SW7471B, Run Date: 03/13/24 13:49, Analyst: CTV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	50		ug/kg	67	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/14/24 00:11, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	5,200	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	14,400	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	23,000	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	14,400	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	26,700	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	29,900	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	6,800	300		ug/kg	10	191-24-2	
Chrysene	21,500	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	1,300	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S59676.06 (continued)

Sample Tag: SB-6 3-4'

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/14/24 00:11, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	42,400	300		ug/kg	10	206-44-0	
Fluorene	7,900	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	6,600	300		ug/kg	10	193-39-5	
Naphthalene	5,400	300		ug/kg	10	91-20-3	
Phenanthrene	44,300	300		ug/kg	10	85-01-8	
Pyrene	53,800	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	1,900	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	1,300	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 04:06, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	67.9	60-29-7	
Acetone	Not detected	1,000		ug/kg	67.9	67-64-1	
Methyl iodide	Not detected	100		ug/kg	67.9	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	67.9	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	67.9	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	67.9	107-13-1	
2-Butanone (MEK)	Not detected	1,000		ug/kg	67.9	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	67.9	75-71-8	
Chloromethane	Not detected	300		ug/kg	67.9	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	67.9	75-01-4	
Bromomethane	Not detected	300		ug/kg	67.9	74-83-9	
Chloroethane	Not detected	300		ug/kg	67.9	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	67.9	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	67.9	75-35-4	
Methylene chloride	Not detected	100		ug/kg	67.9	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	67.9	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	67.9	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	67.9	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	67.9	109-99-9	
Chloroform	Not detected	70		ug/kg	67.9	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	67.9	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	67.9	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	67.9	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	67.9	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	67.9	56-23-5	
Benzene	Not detected	70		ug/kg	67.9	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	67.9	107-06-2	
Trichloroethene	Not detected	70		ug/kg	67.9	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	67.9	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	67.9	75-27-4	
Dibromomethane	Not detected	300		ug/kg	67.9	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	67.9	10061-01-5	
Toluene	Not detected	70		ug/kg	67.9	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	67.9	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	67.9	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	67.9	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	67.9	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	67.9	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S59676.06 (continued)

Sample Tag: SB-6 3-4'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 04:06, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	30		ug/kg	67.9	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	67.9	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	67.9	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	67.9	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	67.9		
o-Xylene	Not detected	70		ug/kg	67.9	95-47-6	
Styrene	Not detected	70		ug/kg	67.9	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	67.9	98-82-8	
Bromoform	Not detected	100		ug/kg	67.9	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	67.9	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	67.9	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	67.9	103-65-1	
Bromobenzene	Not detected	100		ug/kg	67.9	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	67.9	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	67.9	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	67.9	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	67.9	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	67.9	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	67.9	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	67.9	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	67.9	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	67.9	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	67.9	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	67.9	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	67.9	96-12-8	
1,2,4-Trichlorobenzene	Not detected	450		ug/kg	67.9	120-82-1	
1,2,3-Trichlorobenzene	Not detected	450		ug/kg	67.9	87-61-6	
Naphthalene	1,100	300		ug/kg	67.9	91-20-3	
2-Methylnaphthalene	500	100		ug/kg	67.9	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S59676.07

Sample Tag: SB-7 2-3'

Collected Date/Time: 03/08/2024 00:01

Matrix: Soil

COC Reference: 168457

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40mL Glass	MeOH	Yes	4.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/14/24 10:20	JRH	
PNA Extraction*	Completed	SW3546	03/12/24 14:30	JWR	
Sample wt. (g) / Methanol (ml)*	9.444/10	SW5035A	03/12/24 15:02	ACK	
Mercury Digestion	Completed	SW7471B	03/13/24 10:32	CTV	

Inorganics

Method: SM2540B, Run Date: 03/13/24 13:04, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Metals

Method: SW6020A, Run Date: 03/14/24 12:20, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	6,650	200		ug/kg	239	7440-38-2	
Barium	117,000	1,000		ug/kg	239	7440-39-3	
Cadmium	310	200		ug/kg	239	7440-43-9	
Chromium	12,400	500		ug/kg	239	7440-47-3	
Copper	18,000	500		ug/kg	239	7440-50-8	
Lead	177,000	300		ug/kg	239	7439-92-1	
Selenium	Not detected	400		ug/kg	239	7782-49-2	
Silver	Not detected	200		ug/kg	239	7440-22-4	
Zinc	110,000	500		ug/kg	239	7440-66-6	

Method: SW7471B, Run Date: 03/13/24 13:52, Analyst: CTV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	220	50		ug/kg	56	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/13/24 21:53, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	600	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	500	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	1,000	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	1,100	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	600	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S59676.07 (continued)

Sample Tag: SB-7 2-3'

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/13/24 21:53, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	1,000	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	300	300		ug/kg	10	85-01-8	
Pyrene	800	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 04:30, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	65.7	60-29-7	
Acetone	Not detected	1,000		ug/kg	65.7	67-64-1	
Methyl iodide	Not detected	100		ug/kg	65.7	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	65.7	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	65.7	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	65.7	107-13-1	
2-Butanone (MEK)	Not detected	990		ug/kg	65.7	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	65.7	75-71-8	
Chloromethane	Not detected	300		ug/kg	65.7	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	65.7	75-01-4	
Bromomethane	Not detected	300		ug/kg	65.7	74-83-9	
Chloroethane	Not detected	300		ug/kg	65.7	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	65.7	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	65.7	75-35-4	
Methylene chloride	Not detected	100		ug/kg	65.7	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	65.7	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	65.7	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	65.7	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	65.7	109-99-9	
Chloroform	Not detected	70		ug/kg	65.7	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	65.7	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	65.7	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	65.7	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	65.7	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	65.7	56-23-5	
Benzene	Not detected	70		ug/kg	65.7	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	65.7	107-06-2	
Trichloroethene	Not detected	70		ug/kg	65.7	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	65.7	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	65.7	75-27-4	
Dibromomethane	Not detected	300		ug/kg	65.7	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	65.7	10061-01-5	
Toluene	Not detected	70		ug/kg	65.7	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	65.7	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	65.7	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	65.7	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	65.7	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	65.7	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S59676.07 (continued)

Sample Tag: SB-7 2-3'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 04:30, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	30		ug/kg	65.7	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	65.7	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	65.7	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	65.7	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	65.7		
o-Xylene	Not detected	70		ug/kg	65.7	95-47-6	
Styrene	Not detected	70		ug/kg	65.7	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	65.7	98-82-8	
Bromoform	Not detected	100		ug/kg	65.7	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	65.7	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	65.7	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	65.7	103-65-1	
Bromobenzene	Not detected	100		ug/kg	65.7	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	65.7	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	65.7	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	65.7	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	65.7	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	65.7	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	65.7	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	65.7	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	65.7	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	65.7	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	65.7	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	65.7	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	65.7	96-12-8	
1,2,4-Trichlorobenzene	Not detected	430		ug/kg	65.7	120-82-1	
1,2,3-Trichlorobenzene	Not detected	430		ug/kg	65.7	87-61-6	
Naphthalene	Not detected	300		ug/kg	65.7	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	65.7	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S59676.08
Sample Tag: SB-8 1-2'
Collected Date/Time: 03/08/2024 00:01
Matrix: Soil
COC Reference: 168457

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40mL Glass	MeOH	Yes	4.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/14/24 10:20	JRH	
PNA Extraction*	Completed	SW3546	03/12/24 14:30	JWR	
Sample wt. (g) / Methanol (ml)*	9.845/10	SW5035A	03/12/24 15:02	ACK	
Mercury Digestion	Completed	SW7471B	03/13/24 10:32	CTV	

Inorganics

Method: SM2540B, Run Date: 03/13/24 13:04, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Metals

Method: SW6020A, Run Date: 03/14/24 12:22, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	8,980	200		ug/kg	277	7440-38-2	
Barium	93,200	1,000		ug/kg	277	7440-39-3	
Cadmium	1,410	200		ug/kg	277	7440-43-9	
Chromium	18,300	500		ug/kg	277	7440-47-3	
Copper	36,400	500		ug/kg	277	7440-50-8	
Lead	178,000	300		ug/kg	277	7439-92-1	
Selenium	520	400		ug/kg	277	7782-49-2	
Silver	510	200		ug/kg	277	7440-22-4	
Zinc	185,000	500		ug/kg	277	7440-66-6	

Method: SW7471B, Run Date: 03/13/24 13:55, Analyst: CTV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	87	50		ug/kg	71	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/13/24 23:19, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	900	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	2,400	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	5,800	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	5,300	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	10,400	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	11,700	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	2,300	300		ug/kg	10	191-24-2	
Chrysene	5,500	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	400	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S59676.08 (continued)

Sample Tag: SB-8 1-2'

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/13/24 23:19, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	12,500	300		ug/kg	10	206-44-0	
Fluorene	1,100	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	2,200	300		ug/kg	10	193-39-5	
Naphthalene	700	300		ug/kg	10	91-20-3	
Phenanthrene	9,200	300		ug/kg	10	85-01-8	
Pyrene	11,000	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 04:54, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	64.5	60-29-7	
Acetone	Not detected	1,000		ug/kg	64.5	67-64-1	
Methyl iodide	Not detected	100		ug/kg	64.5	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	64.5	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	64.5	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	64.5	107-13-1	
2-Butanone (MEK)	Not detected	970		ug/kg	64.5	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	64.5	75-71-8	
Chloromethane	Not detected	300		ug/kg	64.5	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	64.5	75-01-4	
Bromomethane	Not detected	300		ug/kg	64.5	74-83-9	
Chloroethane	Not detected	300		ug/kg	64.5	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	64.5	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	64.5	75-35-4	
Methylene chloride	Not detected	100		ug/kg	64.5	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	64.5	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	64.5	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	64.5	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	64.5	109-99-9	
Chloroform	Not detected	60		ug/kg	64.5	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	64.5	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	64.5	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	64.5	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	64.5	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	64.5	56-23-5	
Benzene	Not detected	60		ug/kg	64.5	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	64.5	107-06-2	
Trichloroethene	Not detected	60		ug/kg	64.5	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	64.5	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	64.5	75-27-4	
Dibromomethane	Not detected	300		ug/kg	64.5	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	64.5	10061-01-5	
Toluene	Not detected	60		ug/kg	64.5	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	64.5	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	64.5	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	64.5	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	64.5	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	64.5	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S59676.08 (continued)

Sample Tag: SB-8 1-2'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 04:54, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	30		ug/kg	64.5	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	64.5	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	64.5	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	64.5	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	64.5		
o-Xylene	Not detected	60		ug/kg	64.5	95-47-6	
Styrene	Not detected	60		ug/kg	64.5	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	64.5	98-82-8	
Bromoform	Not detected	100		ug/kg	64.5	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	64.5	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	64.5	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	64.5	103-65-1	
Bromobenzene	Not detected	100		ug/kg	64.5	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	64.5	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	64.5	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	64.5	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	64.5	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	64.5	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	64.5	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	64.5	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	64.5	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	64.5	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	64.5	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	64.5	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	64.5	96-12-8	
1,2,4-Trichlorobenzene	Not detected	430		ug/kg	64.5	120-82-1	
1,2,3-Trichlorobenzene	Not detected	430		ug/kg	64.5	87-61-6	
Naphthalene	Not detected	300		ug/kg	64.5	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	64.5	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S59676.09

Sample Tag: SB-9 2-3'

Collected Date/Time: 03/08/2024 00:01

Matrix: Soil

COC Reference: 168457

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40mL Glass	MeOH	Yes	4.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/14/24 10:20	JRH	
PNA Extraction*	Completed	SW3546	03/12/24 14:30	JWR	
Sample wt. (g) / Methanol (ml)*	11.323/11	SW5035A	03/12/24 15:02	ACK	
Mercury Digestion	Completed	SW7471B	03/13/24 10:32	CTV	

Inorganics

Method: SM2540B, Run Date: 03/13/24 13:04, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Metals

Method: SW6020A, Run Date: 03/14/24 12:24, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	7,910	200		ug/kg	263	7440-38-2	
Barium	75,600	1,000		ug/kg	263	7440-39-3	
Cadmium	220	200		ug/kg	263	7440-43-9	
Chromium	13,600	500		ug/kg	263	7440-47-3	
Copper	13,800	500		ug/kg	263	7440-50-8	
Lead	16,600	300		ug/kg	263	7439-92-1	
Selenium	Not detected	400		ug/kg	263	7782-49-2	
Silver	Not detected	200		ug/kg	263	7440-22-4	
Zinc	46,500	500		ug/kg	263	7440-66-6	

Method: SW7471B, Run Date: 03/13/24 13:59, Analyst: CTV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	50		ug/kg	71	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/13/24 21:36, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	700	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	1,500	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	1,300	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	2,500	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	2,800	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	500	300		ug/kg	10	191-24-2	
Chrysene	1,400	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S59676.09 (continued)

Sample Tag: SB-9 2-3'

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/13/24 21:36, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	3,600	300		ug/kg	10	206-44-0	
Fluorene	300	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	600	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	2,600	300		ug/kg	10	85-01-8	
Pyrene	2,700	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 05:17, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	64.6	60-29-7	
Acetone	Not detected	1,000		ug/kg	64.6	67-64-1	
Methyl iodide	Not detected	100		ug/kg	64.6	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	64.6	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	64.6	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	64.6	107-13-1	
2-Butanone (MEK)	Not detected	970		ug/kg	64.6	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	64.6	75-71-8	
Chloromethane	Not detected	300		ug/kg	64.6	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	64.6	75-01-4	
Bromomethane	Not detected	300		ug/kg	64.6	74-83-9	
Chloroethane	Not detected	300		ug/kg	64.6	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	64.6	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	64.6	75-35-4	
Methylene chloride	Not detected	100		ug/kg	64.6	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	64.6	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	64.6	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	64.6	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	64.6	109-99-9	
Chloroform	Not detected	60		ug/kg	64.6	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	64.6	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	64.6	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	64.6	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	64.6	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	64.6	56-23-5	
Benzene	Not detected	60		ug/kg	64.6	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	64.6	107-06-2	
Trichloroethene	Not detected	60		ug/kg	64.6	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	64.6	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	64.6	75-27-4	
Dibromomethane	Not detected	300		ug/kg	64.6	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	64.6	10061-01-5	
Toluene	Not detected	60		ug/kg	64.6	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	64.6	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	64.6	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	64.6	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	64.6	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	64.6	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S59676.09 (continued)

Sample Tag: SB-9 2-3'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 05:17, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	30		ug/kg	64.6	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	64.6	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	64.6	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	64.6	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	64.6		
o-Xylene	Not detected	60		ug/kg	64.6	95-47-6	
Styrene	Not detected	60		ug/kg	64.6	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	64.6	98-82-8	
Bromoform	Not detected	100		ug/kg	64.6	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	64.6	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	64.6	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	64.6	103-65-1	
Bromobenzene	Not detected	100		ug/kg	64.6	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	64.6	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	64.6	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	64.6	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	64.6	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	64.6	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	64.6	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	64.6	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	64.6	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	64.6	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	64.6	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	64.6	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	64.6	96-12-8	
1,2,4-Trichlorobenzene	Not detected	430		ug/kg	64.6	120-82-1	
1,2,3-Trichlorobenzene	Not detected	430		ug/kg	64.6	87-61-6	
Naphthalene	Not detected	300		ug/kg	64.6	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	64.6	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S59676.10
Sample Tag: SB-10 2.5-3.5'
Collected Date/Time: 03/08/2024 00:01
Matrix: Soil
COC Reference: 168457

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40mL Glass	MeOH	Yes	4.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/14/24 10:20	JRH	
PNA Extraction*	Completed	SW3546	03/12/24 14:30	JWR	
Sample wt. (g) / Methanol (ml)*	11.797/11	SW5035A	03/12/24 15:02	ACK	
Mercury Digestion	Completed	SW7471B	03/13/24 10:32	CTV	

Inorganics

Method: SM2540B, Run Date: 03/13/24 13:04, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Metals

Method: SW6020A, Run Date: 03/14/24 12:47, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	5,180	200		ug/kg	246	7440-38-2	
Barium	75,000	1,000		ug/kg	246	7440-39-3	
Cadmium	510	200		ug/kg	246	7440-43-9	
Chromium	6,590	500		ug/kg	246	7440-47-3	
Copper	15,000	500		ug/kg	246	7440-50-8	
Lead	40,300	300		ug/kg	246	7439-92-1	
Selenium	430	400		ug/kg	246	7782-49-2	
Silver	Not detected	200		ug/kg	246	7440-22-4	
Zinc	77,400	500		ug/kg	246	7440-66-6	

Method: SW7471B, Run Date: 03/13/24 14:02, Analyst: CTV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	50		ug/kg	73	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/13/24 19:19, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S59676.10 (continued)

Sample Tag: SB-10 2.5-3.5'

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/13/24 19:19, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 05:42, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	63.7	60-29-7	
Acetone	Not detected	1,000		ug/kg	63.7	67-64-1	
Methyl iodide	Not detected	100		ug/kg	63.7	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	63.7	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	63.7	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	63.7	107-13-1	
2-Butanone (MEK)	Not detected	960		ug/kg	63.7	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	63.7	75-71-8	
Chloromethane	Not detected	300		ug/kg	63.7	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	63.7	75-01-4	
Bromomethane	Not detected	300		ug/kg	63.7	74-83-9	
Chloroethane	Not detected	300		ug/kg	63.7	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	63.7	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	63.7	75-35-4	
Methylene chloride	Not detected	100		ug/kg	63.7	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	63.7	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	63.7	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	63.7	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	63.7	109-99-9	
Chloroform	Not detected	60		ug/kg	63.7	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	63.7	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	63.7	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	63.7	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	63.7	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	63.7	56-23-5	
Benzene	Not detected	60		ug/kg	63.7	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	63.7	107-06-2	
Trichloroethene	Not detected	60		ug/kg	63.7	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	63.7	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	63.7	75-27-4	
Dibromomethane	Not detected	300		ug/kg	63.7	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	63.7	10061-01-5	
Toluene	Not detected	60		ug/kg	63.7	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	63.7	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	63.7	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	63.7	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	63.7	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	63.7	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	63.7	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S59676.10 (continued)
Sample Tag: SB-10 2.5-3.5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 05:42, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	60		ug/kg	63.7	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	63.7	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	63.7	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	63.7		
o-Xylene	Not detected	60		ug/kg	63.7	95-47-6	
Styrene	Not detected	60		ug/kg	63.7	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	63.7	98-82-8	
Bromoform	Not detected	100		ug/kg	63.7	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	63.7	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	63.7	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	63.7	103-65-1	
Bromobenzene	Not detected	100		ug/kg	63.7	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	63.7	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	63.7	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	63.7	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	63.7	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	63.7	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	63.7	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	63.7	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	63.7	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	63.7	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	63.7	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	63.7	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	63.7	96-12-8	
1,2,4-Trichlorobenzene	Not detected	420		ug/kg	63.7	120-82-1	
1,2,3-Trichlorobenzene	Not detected	420		ug/kg	63.7	87-61-6	
Naphthalene	Not detected	300		ug/kg	63.7	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	63.7	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S59676.11
Sample Tag: SB-11 3-4'
Collected Date/Time: 03/08/2024 00:01
Matrix: Soil
COC Reference: 168457

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40mL Glass	MeOH	Yes	4.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/14/24 10:20	JRH	
PNA Extraction*	Completed	SW3546	03/12/24 14:30	JWR	
Sample wt. (g) / Methanol (ml)*	9.758/10	SW5035A	03/12/24 15:02	ACK	
Mercury Digestion	Completed	SW7471B	03/13/24 10:32	CTV	

Inorganics

Method: SM2540B, Run Date: 03/13/24 13:04, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Metals

Method: SW6020A, Run Date: 03/14/24 12:49, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	4,410	200		ug/kg	247	7440-38-2	
Barium	49,600	1,000		ug/kg	247	7440-39-3	
Cadmium	Not detected	200		ug/kg	247	7440-43-9	
Chromium	7,830	500		ug/kg	247	7440-47-3	
Copper	5,580	500		ug/kg	247	7440-50-8	
Lead	7,860	300		ug/kg	247	7439-92-1	
Selenium	Not detected	400		ug/kg	247	7782-49-2	
Silver	Not detected	200		ug/kg	247	7440-22-4	
Zinc	21,800	500		ug/kg	247	7440-66-6	

Method: SW7471B, Run Date: 03/13/24 14:12, Analyst: CTV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	50		ug/kg	65	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/13/24 19:36, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S59676.11 (continued)

Sample Tag: SB-11 3-4'

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/13/24 19:36, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 06:05, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	65	60-29-7	
Acetone	Not detected	1,000		ug/kg	65	67-64-1	
Methyl iodide	Not detected	100		ug/kg	65	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	65	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	65	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	65	107-13-1	
2-Butanone (MEK)	Not detected	980		ug/kg	65	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	65	75-71-8	
Chloromethane	Not detected	300		ug/kg	65	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	65	75-01-4	
Bromomethane	Not detected	300		ug/kg	65	74-83-9	
Chloroethane	Not detected	300		ug/kg	65	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	65	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	65	75-35-4	
Methylene chloride	Not detected	100		ug/kg	65	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	65	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	65	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	65	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	65	109-99-9	
Chloroform	Not detected	70		ug/kg	65	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	65	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	65	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	65	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	65	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	65	56-23-5	
Benzene	Not detected	70		ug/kg	65	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	65	107-06-2	
Trichloroethene	Not detected	70		ug/kg	65	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	65	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	65	75-27-4	
Dibromomethane	Not detected	300		ug/kg	65	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	65	10061-01-5	
Toluene	Not detected	70		ug/kg	65	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	65	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	65	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	65	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	65	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	65	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	65	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S59676.11 (continued)

Sample Tag: SB-11 3-4'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 06:05, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	70		ug/kg	65	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	65	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	65	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	65		
o-Xylene	Not detected	70		ug/kg	65	95-47-6	
Styrene	Not detected	70		ug/kg	65	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	65	98-82-8	
Bromoform	Not detected	100		ug/kg	65	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	65	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	65	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	65	103-65-1	
Bromobenzene	Not detected	100		ug/kg	65	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	65	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	65	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	65	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	65	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	65	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	65	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	65	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	65	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	65	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	65	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	65	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	65	96-12-8	
1,2,4-Trichlorobenzene	Not detected	430		ug/kg	65	120-82-1	
1,2,3-Trichlorobenzene	Not detected	430		ug/kg	65	87-61-6	
Naphthalene	Not detected	300		ug/kg	65	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	65	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S59676.12

Sample Tag: SB-12 1-2'

Collected Date/Time: 03/08/2024 00:01

Matrix: Soil

COC Reference: 168457

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40mL Glass	MeOH	Yes	4.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/14/24 10:20	JRH	
PNA Extraction*	Completed	SW3546	03/12/24 14:30	JWR	
Sample wt. (g) / Methanol (ml)*	10.116/10	SW5035A	03/12/24 15:02	ACK	
Mercury Digestion	Completed	SW7471B	03/13/24 10:32	CTV	

Inorganics

Method: SM2540B, Run Date: 03/13/24 13:04, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Metals

Method: SW6020A, Run Date: 03/14/24 12:51, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	3,720	200		ug/kg	256	7440-38-2	
Barium	25,700	1,000		ug/kg	256	7440-39-3	
Cadmium	250	200		ug/kg	256	7440-43-9	
Chromium	3,700	500		ug/kg	256	7440-47-3	
Copper	5,720	500		ug/kg	256	7440-50-8	
Lead	6,900	300		ug/kg	256	7439-92-1	
Selenium	Not detected	400		ug/kg	256	7782-49-2	
Silver	Not detected	200		ug/kg	256	7440-22-4	
Zinc	12,900	500		ug/kg	256	7440-66-6	

Method: SW7471B, Run Date: 03/13/24 14:15, Analyst: CTV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	50		ug/kg	63	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/13/24 19:53, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S59676.12 (continued)
Sample Tag: SB-12 1-2'

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/13/24 19:53, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 06:30, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	61.7	60-29-7	
Acetone	Not detected	1,000		ug/kg	61.7	67-64-1	
Methyl iodide	Not detected	100		ug/kg	61.7	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	61.7	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	61.7	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	61.7	107-13-1	
2-Butanone (MEK)	Not detected	930		ug/kg	61.7	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	61.7	75-71-8	
Chloromethane	Not detected	300		ug/kg	61.7	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	61.7	75-01-4	
Bromomethane	Not detected	200		ug/kg	61.7	74-83-9	
Chloroethane	Not detected	300		ug/kg	61.7	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	61.7	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	61.7	75-35-4	
Methylene chloride	Not detected	100		ug/kg	61.7	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	61.7	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	61.7	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	61.7	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	61.7	109-99-9	
Chloroform	Not detected	60		ug/kg	61.7	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	61.7	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	61.7	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	61.7	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	61.7	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	61.7	56-23-5	
Benzene	Not detected	60		ug/kg	61.7	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	61.7	107-06-2	
Trichloroethene	Not detected	60		ug/kg	61.7	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	61.7	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	61.7	75-27-4	
Dibromomethane	Not detected	300		ug/kg	61.7	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	61.7	10061-01-5	
Toluene	Not detected	60		ug/kg	61.7	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	61.7	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	61.7	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	61.7	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	61.7	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	61.7	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	61.7	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S59676.12 (continued)
Sample Tag: SB-12 1-2'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 06:30, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	60		ug/kg	61.7	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	61.7	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	61.7	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	61.7		
o-Xylene	Not detected	60		ug/kg	61.7	95-47-6	
Styrene	Not detected	60		ug/kg	61.7	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	61.7	98-82-8	
Bromoform	Not detected	100		ug/kg	61.7	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	61.7	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	61.7	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	61.7	103-65-1	
Bromobenzene	Not detected	100		ug/kg	61.7	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	61.7	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	61.7	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	61.7	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	61.7	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	61.7	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	61.7	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	61.7	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	61.7	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	61.7	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	61.7	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	61.7	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	61.7	96-12-8	
1,2,4-Trichlorobenzene	Not detected	410		ug/kg	61.7	120-82-1	
1,2,3-Trichlorobenzene	Not detected	410		ug/kg	61.7	87-61-6	
Naphthalene	Not detected	300		ug/kg	61.7	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	61.7	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S59676.13

Sample Tag: SB-13 2-3'

Collected Date/Time: 03/08/2024 00:01

Matrix: Soil

COC Reference: 168458

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40mL Glass	MeOH	Yes	4.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/14/24 10:20	JRH	
PNA Extraction*	Completed	SW3546	03/12/24 14:30	JWR	
Sample wt. (g) / Methanol (ml)*	10.313/10	SW5035A	03/12/24 15:02	ACK	
Mercury Digestion	Completed	SW7471B	03/13/24 10:32	CTV	

Inorganics

Method: SM2540B, Run Date: 03/13/24 13:04, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Metals

Method: SW6020A, Run Date: 03/14/24 12:53, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	4,840	200		ug/kg	241	7440-38-2	
Barium	85,400	1,000		ug/kg	241	7440-39-3	
Cadmium	260	200		ug/kg	241	7440-43-9	
Chromium	9,280	500		ug/kg	241	7440-47-3	
Copper	26,800	500		ug/kg	241	7440-50-8	
Lead	103,000	300		ug/kg	241	7439-92-1	
Selenium	Not detected	400		ug/kg	241	7782-49-2	
Silver	Not detected	200		ug/kg	241	7440-22-4	
Zinc	70,000	500		ug/kg	241	7440-66-6	

Method: SW7471B, Run Date: 03/13/24 14:19, Analyst: CTV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	312	50		ug/kg	60	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/13/24 22:11, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	1,000	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	3,500	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	6,000	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	5,900	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	10,400	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	11,600	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	2,600	300		ug/kg	10	191-24-2	
Chrysene	5,700	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	400	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S59676.13 (continued)

Sample Tag: SB-13 2-3'

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/13/24 22:11, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	14,800	300		ug/kg	10	206-44-0	
Fluorene	1,300	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	2,400	300		ug/kg	10	193-39-5	
Naphthalene	400	300		ug/kg	10	91-20-3	
Phenanthrene	12,800	300		ug/kg	10	85-01-8	
Pyrene	12,200	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 06:54, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	60.7	60-29-7	
Acetone	Not detected	1,000		ug/kg	60.7	67-64-1	
Methyl iodide	Not detected	100		ug/kg	60.7	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	60.7	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	60.7	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	60.7	107-13-1	
2-Butanone (MEK)	Not detected	910		ug/kg	60.7	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	60.7	75-71-8	
Chloromethane	Not detected	300		ug/kg	60.7	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	60.7	75-01-4	
Bromomethane	Not detected	200		ug/kg	60.7	74-83-9	
Chloroethane	Not detected	300		ug/kg	60.7	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	60.7	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	60.7	75-35-4	
Methylene chloride	Not detected	100		ug/kg	60.7	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	60.7	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	60.7	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	60.7	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	60.7	109-99-9	
Chloroform	Not detected	60		ug/kg	60.7	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	60.7	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	60.7	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	60.7	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	60.7	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	60.7	56-23-5	
Benzene	Not detected	60		ug/kg	60.7	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	60.7	107-06-2	
Trichloroethene	Not detected	60		ug/kg	60.7	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	60.7	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	60.7	75-27-4	
Dibromomethane	Not detected	300		ug/kg	60.7	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	60.7	10061-01-5	
Toluene	Not detected	60		ug/kg	60.7	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	60.7	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	60.7	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	60.7	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	60.7	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	60.7	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S59676.13 (continued)

Sample Tag: SB-13 2-3'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 06:54, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	20		ug/kg	60.7	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	60.7	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	60.7	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	60.7	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	60.7		
o-Xylene	Not detected	60		ug/kg	60.7	95-47-6	
Styrene	Not detected	60		ug/kg	60.7	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	60.7	98-82-8	
Bromoform	Not detected	100		ug/kg	60.7	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	60.7	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	60.7	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	60.7	103-65-1	
Bromobenzene	Not detected	100		ug/kg	60.7	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	60.7	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	60.7	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	60.7	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	60.7	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	60.7	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	60.7	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	60.7	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	60.7	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	60.7	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	60.7	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	60.7	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	60.7	96-12-8	
1,2,4-Trichlorobenzene	Not detected	400		ug/kg	60.7	120-82-1	
1,2,3-Trichlorobenzene	Not detected	400		ug/kg	60.7	87-61-6	
Naphthalene	Not detected	300		ug/kg	60.7	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	60.7	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S59676.14
Sample Tag: SB-14 1-2'
Collected Date/Time: 03/08/2024 00:01
Matrix: Soil
COC Reference: 168458

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40mL Glass	MeOH	Yes	4.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/14/24 10:20	JRH	
PNA Extraction*	Completed	SW3546	03/12/24 14:30	JWR	
Sample wt. (g) / Methanol (ml)*	7.471/10	SW5035A	03/12/24 15:02	ACK	
Mercury Digestion	Completed	SW7471B	03/13/24 10:32	CTV	

Inorganics

Method: SM2540B, Run Date: 03/13/24 13:04, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Metals

Method: SW6020A, Run Date: 03/14/24 12:27, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	1,770	200		ug/kg	259	7440-38-2	
Barium	5,650	1,000		ug/kg	259	7440-39-3	
Cadmium	Not detected	200		ug/kg	259	7440-43-9	
Chromium	3,720	500		ug/kg	259	7440-47-3	
Copper	1,960	500		ug/kg	259	7440-50-8	
Lead	2,160	300		ug/kg	259	7439-92-1	
Selenium	Not detected	400		ug/kg	259	7782-49-2	
Silver	Not detected	200		ug/kg	259	7440-22-4	
Zinc	6,410	500		ug/kg	259	7440-66-6	

Method: SW7471B, Run Date: 03/13/24 14:22, Analyst: CTV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	50		ug/kg	64	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/13/24 20:10, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S59676.14 (continued)

Sample Tag: SB-14 1-2'

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/13/24 20:10, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 07:17, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	82.9	60-29-7	
Acetone	Not detected	2,000		ug/kg	82.9	67-64-1	
Methyl iodide	Not detected	200		ug/kg	82.9	74-88-4	
Carbon disulfide	Not detected	400		ug/kg	82.9	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	82.9	1634-04-4	
Acrylonitrile	Not detected	200		ug/kg	82.9	107-13-1	
2-Butanone (MEK)	Not detected	1,200		ug/kg	82.9	78-93-3	
Dichlorodifluoromethane	Not detected	400		ug/kg	82.9	75-71-8	
Chloromethane	Not detected	400		ug/kg	82.9	74-87-3	
Vinyl chloride	Not detected	80		ug/kg	82.9	75-01-4	
Bromomethane	Not detected	300		ug/kg	82.9	74-83-9	
Chloroethane	Not detected	400		ug/kg	82.9	75-00-3	
Trichlorofluoromethane	Not detected	200		ug/kg	82.9	75-69-4	
1,1-Dichloroethene	Not detected	80		ug/kg	82.9	75-35-4	
Methylene chloride	Not detected	200		ug/kg	82.9	75-09-2	
trans-1,2-Dichloroethene	Not detected	80		ug/kg	82.9	156-60-5	
1,1-Dichloroethane	Not detected	80		ug/kg	82.9	75-34-3	
cis-1,2-Dichloroethene	Not detected	80		ug/kg	82.9	156-59-2	
Tetrahydrofuran*	Not detected	2,000		ug/kg	82.9	109-99-9	
Chloroform	Not detected	80		ug/kg	82.9	67-66-3	
Bromochloromethane	Not detected	200		ug/kg	82.9	74-97-5	
1,1,1-Trichloroethane	Not detected	80		ug/kg	82.9	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	4,000		ug/kg	82.9	108-10-1	
2-Hexanone	Not detected	4,000		ug/kg	82.9	591-78-6	
Carbon tetrachloride	Not detected	80		ug/kg	82.9	56-23-5	
Benzene	Not detected	80		ug/kg	82.9	71-43-2	
1,2-Dichloroethane	Not detected	80		ug/kg	82.9	107-06-2	
Trichloroethene	Not detected	80		ug/kg	82.9	79-01-6	
1,2-Dichloropropane	Not detected	80		ug/kg	82.9	78-87-5	
Bromodichloromethane	Not detected	200		ug/kg	82.9	75-27-4	
Dibromomethane	Not detected	400		ug/kg	82.9	74-95-3	
cis-1,3-Dichloropropene	Not detected	80		ug/kg	82.9	10061-01-5	
Toluene	Not detected	80		ug/kg	82.9	108-88-3	
trans-1,3-Dichloropropene	Not detected	80		ug/kg	82.9	10061-02-6	
1,1,2-Trichloroethane	Not detected	80		ug/kg	82.9	79-00-5	
Tetrachloroethene	Not detected	80		ug/kg	82.9	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	80		ug/kg	82.9	110-57-6	
Dibromochloromethane	Not detected	200		ug/kg	82.9	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	82.9	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S59676.14 (continued)

Sample Tag: SB-14 1-2'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 07:17, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	80		ug/kg	82.9	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	200		ug/kg	82.9	630-20-6	
Ethylbenzene	Not detected	80		ug/kg	82.9	100-41-4	
p,m-Xylene	Not detected	200		ug/kg	82.9		
o-Xylene	Not detected	80		ug/kg	82.9	95-47-6	
Styrene	Not detected	80		ug/kg	82.9	100-42-5	
Isopropylbenzene	Not detected	400		ug/kg	82.9	98-82-8	
Bromoform	Not detected	200		ug/kg	82.9	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	80		ug/kg	82.9	79-34-5	
1,2,3-Trichloropropane	Not detected	200		ug/kg	82.9	96-18-4	
n-Propylbenzene	Not detected	80		ug/kg	82.9	103-65-1	
Bromobenzene	Not detected	200		ug/kg	82.9	108-86-1	
1,3,5-Trimethylbenzene	Not detected	80		ug/kg	82.9	108-67-8	
tert-Butylbenzene	Not detected	80		ug/kg	82.9	98-06-6	
1,2,4-Trimethylbenzene	Not detected	80		ug/kg	82.9	95-63-6	
sec-Butylbenzene	Not detected	80		ug/kg	82.9	135-98-8	
p-Isopropyltoluene	Not detected	200		ug/kg	82.9	99-87-6	
1,3-Dichlorobenzene	Not detected	200		ug/kg	82.9	541-73-1	
1,4-Dichlorobenzene	Not detected	200		ug/kg	82.9	106-46-7	
1,2-Dichlorobenzene	Not detected	200		ug/kg	82.9	95-50-1	
1,2,3-Trimethylbenzene	Not detected	80		ug/kg	82.9	526-73-8	
n-Butylbenzene	Not detected	80		ug/kg	82.9	104-51-8	
Hexachloroethane	Not detected	500		ug/kg	82.9	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	400		ug/kg	82.9	96-12-8	
1,2,4-Trichlorobenzene	Not detected	550		ug/kg	82.9	120-82-1	
1,2,3-Trichlorobenzene	Not detected	550		ug/kg	82.9	87-61-6	
Naphthalene	Not detected	400		ug/kg	82.9	91-20-3	
2-Methylnaphthalene	Not detected	200		ug/kg	82.9	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S59676.15
Sample Tag: SB-15 4-5'
Collected Date/Time: 03/08/2024 00:01
Matrix: Soil
COC Reference: 168458

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40mL Glass	MeOH	Yes	4.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/14/24 10:20	JRH	
PNA Extraction*	Completed	SW3546	03/12/24 14:30	JWR	
Sample wt. (g) / Methanol (ml)*	10.127/10	SW5035A	03/12/24 15:02	ACK	
Mercury Digestion	Completed	SW7471B	03/13/24 10:32	CTV	

Inorganics

Method: SM2540B, Run Date: 03/13/24 13:04, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Metals

Method: SW6020A, Run Date: 03/14/24 12:55, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	10,400	200		ug/kg	270	7440-38-2	
Barium	97,800	1,000		ug/kg	270	7440-39-3	
Cadmium	470	200		ug/kg	270	7440-43-9	
Chromium	12,100	500		ug/kg	270	7440-47-3	
Copper	33,900	500		ug/kg	270	7440-50-8	
Lead	74,300	300		ug/kg	270	7439-92-1	
Selenium	Not detected	400		ug/kg	270	7782-49-2	
Silver	Not detected	200		ug/kg	270	7440-22-4	
Zinc	101,000	500		ug/kg	270	7440-66-6	

Method: SW7471B, Run Date: 03/13/24 14:32, Analyst: CTV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	50		ug/kg	69	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/13/24 23:36, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	4,200	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	8,500	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	13,100	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	11,100	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	21,800	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	24,500	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	4,500	300		ug/kg	10	191-24-2	
Chrysene	12,500	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	900	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S59676.15 (continued)

Sample Tag: SB-15 4-5'

Polynuclear Aromatics, Method: SW8270D, Run Date: 03/13/24 23:36, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	28,600	300		ug/kg	10	206-44-0	
Fluorene	5,400	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	4,600	300		ug/kg	10	193-39-5	
Naphthalene	5,400	300		ug/kg	10	91-20-3	
Phenanthrene	28,000	300		ug/kg	10	85-01-8	
Pyrene	26,400	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	1,600	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	1,000	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 07:41, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	65.5	60-29-7	
Acetone	Not detected	1,000		ug/kg	65.5	67-64-1	
Methyl iodide	Not detected	100		ug/kg	65.5	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	65.5	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	65.5	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	65.5	107-13-1	
2-Butanone (MEK)	Not detected	980		ug/kg	65.5	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	65.5	75-71-8	
Chloromethane	Not detected	300		ug/kg	65.5	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	65.5	75-01-4	
Bromomethane	Not detected	300		ug/kg	65.5	74-83-9	
Chloroethane	Not detected	300		ug/kg	65.5	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	65.5	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	65.5	75-35-4	
Methylene chloride	Not detected	100		ug/kg	65.5	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	65.5	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	65.5	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	65.5	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	65.5	109-99-9	
Chloroform	Not detected	70		ug/kg	65.5	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	65.5	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	65.5	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	65.5	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	65.5	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	65.5	56-23-5	
Benzene	Not detected	70		ug/kg	65.5	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	65.5	107-06-2	
Trichloroethene	Not detected	70		ug/kg	65.5	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	65.5	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	65.5	75-27-4	
Dibromomethane	Not detected	300		ug/kg	65.5	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	65.5	10061-01-5	
Toluene	Not detected	70		ug/kg	65.5	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	65.5	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	65.5	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	65.5	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	65.5	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	65.5	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S59676.15 (continued)
Sample Tag: SB-15 4-5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 03/13/24 07:41, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	30		ug/kg	65.5	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	65.5	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	65.5	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	65.5	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	65.5		
o-Xylene	Not detected	70		ug/kg	65.5	95-47-6	
Styrene	Not detected	70		ug/kg	65.5	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	65.5	98-82-8	
Bromoform	Not detected	100		ug/kg	65.5	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	65.5	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	65.5	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	65.5	103-65-1	
Bromobenzene	Not detected	100		ug/kg	65.5	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	65.5	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	65.5	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	65.5	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	65.5	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	65.5	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	65.5	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	65.5	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	65.5	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	65.5	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	65.5	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	65.5	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	65.5	96-12-8	
1,2,4-Trichlorobenzene	Not detected	430		ug/kg	65.5	120-82-1	
1,2,3-Trichlorobenzene	Not detected	430		ug/kg	65.5	87-61-6	
Naphthalene	600	300		ug/kg	65.5	91-20-3	
2-Methylnaphthalene	200	100		ug/kg	65.5	91-57-6	

M-Result reported to MDL not RDL

Merit Laboratories Login Checklist

Lab Set ID:S59676

Client:TRITERRA (TriTerra)

Project: 23-3626 / 5250 Conner Ave

Submitted:03/12/2024 11:50 Login User: PFD

Attention: Adam Bishop

Address: TriTerra

1375 S. Washington Avenue, Suite 100
Lansing, MI 48910

Phone: 210-749-2704

FAX:

Email: Adam.Bishop@triterra.us

Selection	Description	Note
Sample Receiving		
01.	☒ Yes ☐ No ☐ N/A	Samples are received at 4C +/- 2C Thermometer # IR 4.1
02.	☒ Yes ☐ No ☐ N/A	Received on ice/ cooling process begun
03.	☐ Yes ☒ No ☐ N/A	Samples shipped
04.	☐ Yes ☒ No ☐ N/A	Samples left in 24 hr. drop box
05.	☐ Yes ☐ No ☒ N/A	Are there custody seals/tape or is the drop box locked
Chain of Custody		
06.	☒ Yes ☐ No ☐ N/A	COC adequately filled out
07.	☒ Yes ☐ No ☐ N/A	COC signed and relinquished to the lab
08.	☒ Yes ☐ No ☐ N/A	Sample tag on bottles match COC
09.	☐ Yes ☒ No ☐ N/A	Subcontracting needed? Subcontacted to:
Preservation		
10.	☒ Yes ☐ No ☐ N/A	Do sample have correct chemical preservation
11.	☐ Yes ☐ No ☒ N/A	Completed pH checks on preserved samples? (no VOAs)
12.	☐ Yes ☒ No ☐ N/A	Did any samples need to be preserved in the lab?
Bottle Conditions		
13.	☒ Yes ☐ No ☐ N/A	All bottles intact
14.	☒ Yes ☐ No ☐ N/A	Appropriate analytical bottles are used
15.	☒ Yes ☐ No ☐ N/A	Merit bottles used
16.	☒ Yes ☐ No ☐ N/A	Sufficient sample volume received
17.	☐ Yes ☒ No ☐ N/A	Samples require laboratory filtration
18.	☒ Yes ☐ No ☐ N/A	Samples submitted within holding time
19.	☐ Yes ☐ No ☒ N/A	Do water VOC or TOX bottles contain headspace

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____



2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 2 168457

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME Adam Bishop	
COMPANY Triterm	
ADDRESS 1375 S. Washington Avenue	
CITY Lansing	STATE MI ZIP CODE 48910
PHONE NO. 210-740-2704	CELL NO.
E-MAIL ADDRESS adam.bishop@triterm.us	

CONTACT NAME		☐ SAME
COMPANY		
ADDRESS		
CITY	STATE	ZIP CODE
PHONE NO.	E-MAIL ADDRESS	

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME 73-3626 / 5250 Conner Ave	SAMPLER(S) - PLEASE PRINT/SIGN NAME Adam Bishop
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER	
DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER	

MATRIX W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID CODE: SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR WS=WASTE	# Containers & Preservatives
--	------------------------------

MERIT LAB NO. FOR LAB USE ONLY	COLLECTION		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives										Certifications
	DATE	TIME				NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	UCLS	PAHs	MT 10 Metyls	
5676.01	3/18/24		SB-1 2-2.5'	S	2	X					X		X	X	X	
.02			SB-2 4-5'	S	2	X					X		X	X	X	
.03			SB-3 1-2'	S	2	X					X		X	X	X	
.04			SB-4 7-8'	S	2	X					X		X	X	X	
.05			SB-5 0-1'	S	2	X					X		X	X	X	
.06			SB-6 3-4'	S	2	X					X		X	X	X	
.07			SB-7 2-3'	S	2	X					X		X	X	X	
.08			SB-8 1-2'	S	2	X					X		X	X	X	
.09			SB-9 2-3'	S	2	X					X		X	X	X	
.10			SB-10 2.5-3.5'	S	2	X					X		X	X	X	
.11			SB-11 3-4'	S	2	X					X		X	X	X	
.12			SB-12 1-2'	S	2	X					X		X	X	X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION CM #1 Triterm	SAMPLER Adam Bishop	DATE 3/18/24	TIME 11:00
RECEIVED BY: SIGNATURE/ORGANIZATION Triterm Cold Storage		DATE 3/18/24	TIME 16:00
RELINQUISHED BY: SIGNATURE/ORGANIZATION Triterm Cold Storage		DATE 3/12/24	TIME 9:11
RECEIVED BY: SIGNATURE/ORGANIZATION BB		DATE 3/12/24	TIME 9:11

RELINQUISHED BY: SIGNATURE/ORGANIZATION BB	DATE 3/12/24	TIME 11:50		
RECEIVED BY: SIGNATURE/ORGANIZATION BB	DATE 3/12/24	TIME 11:50		
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES:	TEMP. ON ARRIVAL
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS		

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

REPORT TO

CONTACT NAME Adam B. King			
COMPANY Triterra			
ADDRESS 1375 S. Washington Avenue			
CITY Lansing		STATE MI	ZIP CODE 4810
PHONE NO. 210-244-6200		CELL NO.	P.O. NO.
E-MAIL ADDRESS adam.b.king@triterra.us		QUOTE NO.	

CONTACT NAME		☐ SAME	
COMPANY			
ADDRESS			
CITY		STATE	ZIP CODE
PHONE NO.		E-MAIL ADDRESS	

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME <u>23-3626 / 5250 Warner Avenue</u>	SAMPLER(S) - PLEASE PRINT/SIGN NAME <u>Adam B. Smith</u>
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER _____	
DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____	

MATRIX CODE:	W=WATER	GW=GROUNDWATER	WW=WASTEWATER	S=SOIL	L=LIQUID	SD=SOLID	# Containers & Preservatives
	SL=SLUDGE	DW=DRINKING WATER	O=OIL	WP=WIFE	A=AIR	WS=WASTE	

[illegible][illegible]

RELINQUISHED BY:									
SIGNATURE/ORGANIZATION	<i>Tr. Terry</i>	<i>X</i>	Sampler	DATE	TIME				
RECEIVED BY:									
SIGNATURE/ORGANIZATION	<i>Tr. Terry</i>	<i>Cold</i>	<i>Storage</i>	DATE	TIME				
RELINQUISHED BY:									
SIGNATURE/ORGANIZATION	<i>Tr. Terry</i>	<i>Cold</i>	<i>Storage</i>	DATE	TIME				
RECEIVED BY:									
SIGNATURE/ORGANIZATION	<i>TR</i>			DATE	TIME				

RELINQUISHED BY:		DATE		TIME	
SIGNATURE/ORGANIZATION		3/12/24		11:50	
RECEIVED BY:		DATE		TIME	
SIGNATURE/ORGANIZATION		3/12/24		11:50	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES:	TEMP. ON ARRIVAL	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS		4.1	

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

ATTACHMENT F:

EGLE SSVIAC

Table 1. Residential Part 201 SSVIAC. The following **unrestricted** site-specific values apply to a residential structure that has a **slab-on-grade** foundation that includes an **elevator shaft extending 5ft below grade**, the depth to groundwater submitted for this facility (i.e. 20 ft), and USDA soil type of **sand**.

CAS#	Hazardous Substance	Groundwater Not In Contact (µg/L)	Soil (µg/kg)	Soil Vapor** (µg/m³)
83329	Acenaphthene	3,900 (S) sol	2.1E+05 nc	7,300 nc
208968	Acenaphthylene	65 (CC) nc	DATA	7,300 nc
994058	t-Amyl methyl ether (TAME)	3,400 nc	34 (M) nc	2,200 nc
120127	Anthracene	43 (S) sol	1.3E+07 nc	35,000 nc
71432	Benzene	31 ca	1.7 (M) ca	110 ca
56553	Benzo(a)anthracene	9.4 (S) (MM) sol	1.6E+05 (MM) mut	5.8 (MM) mut
205992	Benzo(b)fluoranthene	NA	NA	NA
207089	Benzo(k)fluoranthene	NA	NA	NA
191242	Benzo(g,h,i)perylene	NA	NA	NA
50328	Benzo(a)pyrene	NA	NA	NA
75650	t-Butyl alcohol	3.5E+05 nc	3,200 nc	2,500 nc
104518	n-Butylbenzene	1,900 nc	560 nc	7,000 nc
135988	sec-Butylbenzene	8,000 nc	3,800 nc	14 nc
98066	t-Butylbenzene	3.2 nc	0.64 (M) nc	14 nc
218019	Chrysene	NA	NA	NA
110827	Cyclohexane	2,400 nc	320 (M) nc	2.1E+05 nc
53703	Dibenzo(a,h)anthracene	NA	NA	NA
75343	1,1-Dichloroethane	150 ca	2.6 (M) ca	530 ca
107062	1,2-Dichloroethane	47 ca	0.82 (M) ca	33 ca
60297	Diethyl ether	41,000 nc	350 nc	35,000 nc
108203	Diisopropyl ether	19,000 (DD) dev	200 (M) (DD) dev	23,000 (DD) dev
64175	Ethanol	1.2E+08 (EE) st	1.3E+06 (EE) st	6.3E+05 (EE) st
637923	Ethyl-tert-butyl ether (ETBE)	22 (CC) nc	DATA	13,000 nc
100414	Ethylbenzene	100 ca	12 (M) ca	340 ca
106934	Ethylene dibromide	7.3 ca	7.4E-02 (M) ca	1.4 ca

Table 1. Residential Part 201 SSVIAC. The following **unrestricted** site-specific values apply to a residential structure that has a **slab-on-grade** foundation that includes an **elevator shaft extending 5ft below grade**, the depth to groundwater submitted for this facility (i.e. 20 ft), and USDA soil type of **sand**.

CAS#	Hazardous Substance	Groundwater Not In Contact (µg/L)	Soil (µg/kg)	Soil Vapor** (µg/m³)
206440	Fluoranthene	NA	NA	NA
86737	Fluorene	1,700 (S) sol	4.7E+05 nc	4,900 nc
142825	n-Heptane	150 (GW) nc	130 nc	1.2E+05 nc
110543	n-Hexane	29 (GW) nc	25 nc	24,000 nc
193395	Indeno(1,2,3-cd)pyrene	NA	NA	NA
67630	Isopropyl alcohol	1.0E+06 nc	9,900 nc	7,000 nc
98828	Isopropyl benzene	24 ca	3.8 (M) ca	81 ca
Varies	Mercury (Total)	3.4 nc	22 (M) nc	10 nc
1634044	Methyl-tert-butyl ether (MTBE)	9,200 ca	74 (M) ca	3,300 ca
96377	Methylcyclopentane	120 nc	29 (M) nc	24,000 nc
91576	2-Methylnaphthalene	3,200 nc	1,700 nc	350 nc
91203	Naphthalene	180 ca	67 (M) ca	25 ca
109660	Pentane	42 (M) nc	36 (M) nc	35,000 nc
85018	Phenanthrene	420 nc	1,700 nc	3.5 nc
1336363	Polychlorinated biphenyls (PCBs)	3.1E-02 (M) (CC) (J) ca	DATA	8.5 (J) ca
103651	n-Propylbenzene	9,600 (DD) dev	1,800 (DD) dev	33,000 (DD) dev
129000	Pyrene	140 (S) sol	2.5E+07 nc	3,500 nc
100425	Styrene	1,300 ca	150 ca	1,500 ca
108883	Toluene	52,000 nc	3,700 nc	1.7E+05 nc
540841	2,2,4-Trimethyl pentane	160 (GW) nc	130 (M) nc	1.2E+05 nc
526738	1,2,3-Trimethylbenzene	1,900 (JT) nc	270 (JT) nc	2,100 (JT) nc
95636	1,2,4-Trimethylbenzene	1,000 (JT) nc	150 (JT) nc	2,100 (JT) nc
108678	1,3,5-Trimethylbenzene	740 (JT) nc	100 (JT) nc	2,100 (JT) nc
1330207	Xylenes	2,800 (J) nc	280 (J) nc	7,600 (J) nc
90120	1-Methylnaphthalene	NR	NR	NR

Table 2. Residential Part 201 SSVIAC. The following **unrestricted** site-specific values apply to a residential structure that has a **basement** foundation, the depth to groundwater submitted for this facility (i.e. 20 ft), and USDA soil type of **sand**.

CAS#	Hazardous Substance	Groundwater Not In Contact (µg/L)	Soil (µg/kg)	Soil Vapor** (µg/m³)
83329	Acenaphthene	3,900 (S) sol	2.0E+05 nc	7,300 nc
208968	Acenaphthylene	65 (CC) nc	DATA	7,300 nc
994058	t-Amyl methyl ether (TAME)	2,100 nc	34 (M) nc	2,200 nc
120127	Anthracene	43 (S) sol	1.3E+07 nc	35,000 nc
71432	Benzene	20 ca	1.7 (M) ca	110 ca
56553	Benzo(a)anthracene	9.4 (S) (MM) sol	1.6E+05 (MM) mut	5.8 (MM) mut
205992	Benzo(b)fluoranthene	NA	NA	NA
207089	Benzo(k)fluoranthene	NA	NA	NA
191242	Benzo(g,h,i)perylene	NA	NA	NA
50328	Benzo(a)pyrene	NA	NA	NA
75650	t-Butyl alcohol	2.3E+05 nc	3,200 nc	2,500 nc
104518	n-Butylbenzene	1,100 nc	550 nc	7,000 nc
135988	sec-Butylbenzene	5,000 nc	3,800 nc	14 nc
98066	t-Butylbenzene	1.9 nc	0.64 (M) nc	14 nc
218019	Chrysene	NA	NA	NA
110827	Cyclohexane	1,500 nc	320 (M) nc	2.1E+05 nc
53703	Dibenzo(a,h)anthracene	NA	NA	NA
75343	1,1-Dichloroethane	95 ca	2.6 (M) ca	530 ca
107062	1,2-Dichloroethane	29 ca	0.82 (M) ca	33 ca
60297	Diethyl ether	26,000 nc	350 nc	35,000 nc
108203	Diisopropyl ether	11,000 (DD) dev	190 (M) (DD) dev	23,000 (DD) dev
64175	Ethanol	8.3E+07 (EE) st	1.3E+06 (EE) st	6.3E+05 (EE) st
637923	Ethyl-tert-butyl ether (ETBE)	22 (CC) nc	DATA	13,000 nc
100414	Ethylbenzene	64 ca	12 (M) ca	340 ca
106934	Ethylene dibromide	4.4 ca	7.4E-02 (M) ca	1.4 ca

Table 2. Residential Part 201 SSVIAC. The following **unrestricted** site-specific values apply to a residential structure that has a **basement** foundation, the depth to groundwater submitted for this facility (i.e. 20 ft), and USDA soil type of **sand**.

CAS#	Hazardous Substance	Groundwater Not In Contact (µg/L)	Soil (µg/kg)	Soil Vapor** (µg/m³)
206440	Fluoranthene	NA	NA	NA
86737	Fluorene	1,700 (S) sol	4.7E+05 nc	4,900 nc
142825	n-Heptane	150 (GW) nc	130 nc	1.2E+05 nc
110543	n-Hexane	29 (GW) nc	25 nc	24,000 nc
193395	Indeno(1,2,3-cd)pyrene	NA	NA	NA
67630	Isopropyl alcohol	6.7E+05 nc	9,800 nc	7,000 nc
98828	Isopropyl benzene	15 ca	3.8 (M) ca	81 ca
Varies	Mercury (Total)	2.1 nc	22 (M) nc	10 nc
1634044	Methyl-tert-butyl ether (MTBE)	5,800 ca	74 (M) ca	3,300 ca
96377	Methylcyclopentane	73 nc	29 (M) nc	24,000 nc
91576	2-Methylnaphthalene	1,900 nc	1,700 nc	350 nc
91203	Naphthalene	110 ca	67 (M) ca	25 ca
109660	Pentane	40 (M) (GW) nc	36 (M) nc	35,000 nc
85018	Phenanthrene	250 nc	1,700 nc	3.5 nc
1336363	Polychlorinated biphenyls (PCBs)	3.1E-02 (M) (CC) (J) ca	DATA	8.5 (J) ca
103651	n-Propylbenzene	5,900 (DD) dev	1,800 (DD) dev	33,000 (DD) dev
129000	Pyrene	140 (S) sol	2.5E+07 nc	3,500 nc
100425	Styrene	800 ca	150 ca	1,500 ca
108883	Toluene	32,000 nc	3,700 nc	1.7E+05 nc
540841	2,2,4-Trimethyl pentane	160 (GW) nc	130 (M) nc	1.2E+05 nc
526738	1,2,3-Trimethylbenzene	1,200 (JT) nc	270 (JT) nc	2,100 (JT) nc
95636	1,2,4-Trimethylbenzene	640 (JT) nc	150 (JT) nc	2,100 (JT) nc
108678	1,3,5-Trimethylbenzene	450 (JT) nc	100 (JT) nc	2,100 (JT) nc
1330207	Xylenes	1,700 (J) nc	280 (J) nc	7,600 (J) nc
90120	1-Methylnaphthalene	NR	NR	NR

FOOTNOTES

**Soil vapor site-specific volatilization to indoor air criteria (SSVIAC) are applicable for all depths.

- Acceptable Air Values (AAV) endpoint basis used for SSVIAC: (**ca**) = Carcinogenetic; (**nc**) = Non-Carcinogenetic; (**dev**) = Developmental; (**mut**) = Mutagenic cancer; (**st**) = Short-term (i.e., less than chronic exposure).
- Footnote (#): Acceptable air concentrations (AAC) cannot be adjusted to a 12-hour exposure time for hazardous substance.
- Footnote **AA**: Health-based groundwater SSVIAC are not available due to insufficient toxicological data. Dissolved-phase methane in groundwater is not explosive; however, if liberated and allowed to accumulate in an enclosed structure the principle health and safety concerns are explosive, flammable, and asphyxiant properties of gas phase methane. The acceptable groundwater concentration is the flammability and explosivity screening level (**FESL**) of 10,000 µg/L.
- Footnote **C**: The health-based SSVIAC exceeds the chemical-specific soil saturation screening level (**Csat**). Because this table does not list Csat values both were provided, with the calculated (health-based) value listed first and Csat provided in parenthesis. The person proposing or implementing response activity must document whether additional response activity is required to control non aqueous phase liquid (**NAPL**) to protect against risks associated with NAPL by using methods appropriate for the NAPL present.
- Footnote **CC**: Insufficient chemical-physical input parameters have been identified to allow the development of a health-based SSVIAC using standard methods. The health based SSVIAC for groundwater is developed based solely on the approach that the department uses for shallow groundwater. If groundwater detections are present, soil vapor may be the most appropriate media to evaluate risk posed from the VIAP.
- Footnote **DATA**: Insufficient physical chemical parameters to calculate a health based SSVIAC for specified media. If detections are present in specified media, health-based soil vapor SSVIAC should be used to evaluate risk.
- Footnote **DD**: Hazardous substance causes developmental effects. Residential SSVIAC are protective of both prenatal exposure using a pregnant female receptor and postnatal exposure using a child receptor. Nonresidential SSVIAC are protective of prenatal exposure using a pregnant female receptor. Prenatal developmental effects may occur after an acute (i.e. short-term) or full-term exposure.
- Footnote **EE**: The acceptable air concentration (**AAC**) for the volatile hazardous substances is not derived using standard methods. The hazardous substance may cause adverse human health effects for less than chronic exposures (i.e. short-term or acute). The AAC for these hazardous substances is the acute or intermediate minimum risk level (MRL) developed by the Agency for Toxic Substances and Disease Registry (ATSDR), a United States Environmental Protection Agency Integrated Risk Information System (IRIS) acute reference concentration, or EGLE's Air Quality Division acute initial threshold screening level (ITSL).
- Footnote **FF**: The AAC for the volatile hazardous substances are based on toxicity values that have been identified to have the potential to cause adverse human health effects for less than chronic exposures (i.e. short-term or acute). The short-term exposure for shallow groundwater health based SSVIAC are based on modification of the standard methods by the department to develop applicable shallow groundwater values.
- Footnote **GG**: Health-based SSVIAC for soil vapor are not available due to insufficient toxicological data. The soil vapor value addresses the health and safety concerns of explosive, flammable, and asphyxiant properties of gas phase methane. The acceptable soil vapor concentration is derived based on 25% of the lower explosive level (**LEL**) for methane.
- Footnote **GW**: The calculated health based SSVIAC for a hazardous substance based upon shallow groundwater is considered protective when it is greater than the calculated value for groundwater.
- Footnote **ID**: Requires further evaluation to determine the appropriate media to sample.
- Footnote **J**: Hazardous substance may be present in several isomer forms. Isomer-specific concentrations must be added together for comparison to criteria.
- Footnote **JT**: Hazardous substance may be present in several isomer forms. The health-based SSVIAC may be used for the individual isomer provided that it is the sole isomer detected; however, when multiple isomers are detected in a medium, the isomer-specific concentrations must be added together and compared to the most restrictive health-based SSVIAC of the detected isomers.
- Footnote **M**: The health based SSVIAC may be below target detection limits (**TDL**). In accordance with Sec. 20120a(10) when the TDL for a hazardous substance is greater than the developed health-based SSVIAC, the TDL is used to evaluate the risk posed from the pathway.
- Footnote **MM**: Hazardous substance is a carcinogen with a mutagenic mode of action. The cancer potency values used in calculating health-based SSVIAC are modified using age-dependent adjustment factors for those carcinogenic chemicals identified as mutagenic.
- Footnote **NA**: The hazardous substance does not meet the department's definition of a volatile; therefore, no health based SSVIAC were developed.
- Footnote **NR**: The hazardous substance has not been previously evaluated by the Remediation and Redevelopment Division Toxicology Unit. The identification, collection, and evaluation of toxicological literature and chemical-physical data cannot be completed within the timeframe requested.
- Footnote **S**: Calculated health-based SSVIAC exceeds the hazardous substance-specific water solubility limit; therefore, the water solubility limit is used to evaluate the risk posed from the pathway. When this occurs the basis for the screening level is noted as "sol".
- Footnote **TX**: The Remediation and Redevelopment Division Toxicology Unit has not identified an inhalation toxicity value for the hazardous substance.

ATTACHMENT G:
PROFESSIONAL QUALIFICATIONS



JADE GILLETTE, EP

ASSOCIATE SCIENTIST
DIRECTOR | TECHNICAL SERVICES

TRI TERRA

Mr. Gillette currently serves as an Associate Scientist and assists with technical aspects of projects. His responsibilities include developing a scope of work and budget, communicating with regulatory officials, and project management. Typical projects include Phase I/II ESAs, BEAs, Due Care Plans/DDCC, soil gas and sub-slab vapor investigations, and delineation of soil and groundwater contamination. Mr. Gillette has over 20 years of experience as an environmental consultant in Michigan and the Mid-West. Mr. Gillette's experience includes soil, groundwater, and soil gas investigations, project management, development of conceptual site models, and report preparation. His focus includes assisting commercial/industrial clients, developers, and banks/lending institutions with transactions involving multi-family residential, commercial, and industrial properties.

AREAS OF EXPERTISE

- ▣ Soil, groundwater, and soil gas contamination assessments
- ▣ Phase I Environmental Site Assessments (ESAs)
- ▣ Phase II ESAs
- ▣ Baseline Environmental Assessments (BEAs)
- ▣ Due Care Plans/Documentation of Due Care Compliance (DDCC)
- ▣ No Further Action (NFA) Reports
- ▣ Underground Storage Tank (UST) Closures
- ▣ Oversight, soil logging, screening, and soil and groundwater sampling during Geoprobe and hollow-stem auger drilling
- ▣ Evaluating soil and groundwater data for due care obligations and regulatory closures

EDUCATION

- ▣ BS Applied Ecology and Environmental Sciences - 2002
Michigan Technological University, Houghton, Michigan

NOTABLE PROJECT EXPERIENCE

- ▣ Over 20 years experience as an environmental consultant in Michigan and the Midwest
- ▣ Managed hundred of Phase I and Phase II ESA investigations
- ▣ Extensive experience with remediation/mitigation and redevelopment of contaminated industrial, commercial, and residential properties

CERTIFICATIONS

- ▣ State of Michigan Licensed Asbestos Inspector (A#1827)
- ▣ Environmental Professional as defined in 40 CFR 312.10
- ▣ OSHA 40 Hour Hazardous Waste Operations & Emergency Response (HAZWOPER) Training with Annual 8 Hour Refresher Courses
- ▣ ASTM Risk-Based Corrective Action (RBCA) at Petroleum Release Sites
- ▣ EGLE Volatilization to Indoor Air Pathway (VIAP) Training

CREATING HEALTHIER COMMUNITIES

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