



BASELINE ENVIRONMENTAL ASSESSMENT

220 N. Park Street, Ypsilanti, Michigan

PREPARED FOR Renovare Ypsilanti Homes, LLC
42 Watson Street, Suite B
Detroit, Michigan 48201

PROJECT # 10627F3-2-26

DATE November 28, 2022

Table of Contents



1.0	INTRODUCTION	1
1.1	OWNER/OPERATOR INFORMATION	1
1.2	INTENDED USE OF THE PROPERTY	2
1.3	SUMMARY OF AAI PHASE I ESA.....	2
1.3.1	AKT Peerless’ September 2022 Phase I ESA.....	2
1.3.2	AKT Peerless’ November 2022 Phase I ESA Update.....	2
1.4	EXCEPTIONS OR DELETIONS.....	3
1.5	DATA GAPS	3
1.6	PREVIOUS ENVIRONMENTAL INVESTIGATIONS	3
1.6.1	AKT Peerless’ October 2015 Phase I ESA	3
1.6.2	AKT Peerless’ September 2021 Phase II ESA.....	4
1.6.3	G2’s July 2022 Report on Geotechnical Investigation.....	5
1.6.4	AKT Peerless’ November 2022 Supplemental Phase II ESA	6
1.7	GENERAL LOCATION(S) OF KNOWN CONTAMINATION AND MEDIA AFFECTED	7
1.8	BASIS FOR FACILITY DETERMINATION.....	7
2.0	PROPERTY INFORMATION	8
2.1	LEGAL DESCRIPTION.....	8
2.2	SURVEY MAP(S).....	8
2.3	SCALED SITE MAP(S)	8
2.4	SCALED AREA MAP	8
2.5	PROPERTY LOCATION	9
2.6	SPATIAL DATA.....	9
3.0	FACILITY STATUS.....	9
3.1	SUMMARY OF KNOWN HAZARDOUS SUBSTANCES	9
3.2	ANALYTICAL LABORATORY DATA	12
4.0	SIGNATURES OF ENVIRONMENTAL PROFESSIONALS AND QUALIFICATIONS.....	13
5.0	ALL APPROPRIATE INQUIRY REPORT	13
6.0	REFERENCES	13
7.0	LIMITATIONS.....	13

FIGURES

Figure 1 Topographic Location Map
Figure 2 Site Map with Soil Boring Locations
Figure 3 Site Map with Soil Analytical Results Exceeding Part 201 Generic RCC

TABLES

Table 1.....Summary of Soil Analytical Results
Footnotes

APPENDICES

Appendix A Legal Description
Appendix B AKT Peerless’ September 2022 Phase I ESA
Appendix C AKT Peerless’ November 2022 Phase I ESA Update
Appendix D AKT Peerless’ September 2021 Phase II ESA
Appendix E AKT Peerless’ November 2022 Supplemental Phase II ESA
Appendix F Parcel Map
Appendix G Resumes of Environmental Professionals

BASELINE ENVIRONMENTAL ASSESSMENT

220 N. Park Street, Ypsilanti, Michigan
AKT Peerless Project No. 10627F3-2-26

1.0 Introduction

Renovare Ypsilanti Homes, LLC (Prospective Property Owner and Operator) retained AKT Peerless to prepare this Baseline Environmental Assessment (BEA) for the property located at 220 N. Park Street in Ypsilanti, Washtenaw County, Michigan (the subject property). AKT Peerless' scope of work was based on (1) Section 20126(1)(c) of Part 201 of the Natural Resources and Environmental Protection Act, Michigan Public Act 451 of 1994, as amended (NREPA), and (2) AKT Peerless' proposal PF-31479, dated November 7, 2022, and the terms and conditions of that agreement.

AKT Peerless prepared this BEA to provide a written document that describes the results of an all appropriate inquiry (AAI) and the sampling and analyses that confirm that the subject property is a "facility¹." This BEA was prepared in accordance with Section 20126(1)(c) of Part 201 of the NREPA and provides an independent, professional evaluation and opinion regarding existing environmental conditions associated with the subject property. The BEA establishes a liability exemption for the cleanup of existing contamination at the subject property.

This BEA was conducted on November 28, 2022. On behalf of Renovare Ypsilanti Homes, LLC, this BEA is being submitted to Michigan Department of Environment, Great Lakes, and Energy (EGLE) Remediation and Redevelopment Division (RRD).

The property is described in further detail in Section 2.0. A legal description for the property is included in **Appendix A**. Refer to Figure 1 for a topographic location map and Figure 2 for a site map.

1.1 Owner/Operator Information

This BEA was prepared by AKT Peerless on behalf of the following:

Prospective Property Owner and Operator:

Renovare Ypsilanti Homes, LLC
42 Watson Street, Suite B
Detroit, Michigan 48201

¹ "Facility" means any area, place, or property where a hazardous substance in excess of the concentrations that satisfy the cleanup criteria for unrestricted residential use has been released, deposited, disposed of, or otherwise comes to be located. Facility does not include any area, place, or property where any of the following conditions are satisfied: (i) Response activities have been completed under this part that satisfy the cleanup criteria for unrestricted residential use. (ii) Corrective action has been completed under Part 213 that satisfies the cleanup criteria for unrestricted residential use. (iii) Site-specific criteria that have been approved by the department for application at the area, place, or property are met or satisfied and both of the following conditions are met: (A) The site-specific criteria do not depend on any land use or resource use restriction to ensure protection of the public health, safety, or welfare or the environment. (B) Hazardous substances at the area, place, or property that are not addressed by site-specific criteria satisfy the cleanup criteria for unrestricted residential use.

1.2 Intended Use of the Property

Renovare Ypsilanti Homes, LLC intends to purchase the subject property on or about December 12, 2022, and intends to redevelop the subject property with 46 attached and detached single-family dwellings, 50% of which will be dedicated to affordable housing.

1.3 Summary of AAI Phase I ESA

1.3.1 AKT Peerless' September 2022 Phase I ESA

AKT Peerless completed a Phase I Environmental Site Assessment (ESA) of the subject property on September 13, 2022 on behalf of Renovare Ypsilanti Homes, LLC and City of Ypsilanti in accordance with United States Environmental Protection Agency (USEPA) Standards and Practices for AAI [40 Code of Federal Regulations (CFR) Part 312] and the scope and limitations of ASTM Standard Practice E 1527-21 (ASTM Standard Practice E 1527). This Phase I ESA also satisfied the good commercial and customary practices outlined in ASTM Standard Practice E 1527-13. At the time of AKT Peerless' site reconnaissance, the subject property consisted of undeveloped, vegetated land (i.e., maintained lawn, trees) and was not used for a significant or obvious purpose.

The following recognized environmental condition (REC) was identified in connection with the subject property:

- In September 2021, AKT Peerless completed a Phase II ESA of the subject property to evaluate RECs (i.e., one on-site REC and four off-site RECs) previously identified in AKT Peerless' October 2015 Phase I ESA of the subject property. Soil contamination, including arsenic and selenium comingled with low-level polynuclear aromatic hydrocarbons (PNAs), was identified in the soil sample collected to evaluate the on-site REC (i.e., surficial and shallow subsurface fill material of unknown origin) on the south-central portion of the subject property. (Contamination associated with the off-site RECs was not identified.) The concentrations of arsenic and selenium exceed Part 201 Generic Residential Cleanup Criteria (RCC), thus qualifying the subject property as a "facility," as defined in Part 201 of the NREPA. The "facility" status of the subject property therefore represents an REC.

A copy of AKT Peerless' September 2022 Phase I ESA is included in **Appendix B**.

1.3.2 AKT Peerless' November 2022 Phase I ESA Update

AKT Peerless completed a Phase I ESA Update of the subject property on November 18, 2022 on behalf of Renovare Ypsilanti Homes, LLC and City of Ypsilanti in accordance with USEPA Standards and Practices for AAI (40 CFR Part 312) and the scope and limitations of ASTM Standard Practice E 1527-21. This Phase I ESA Update also satisfied the good commercial and customary practices outlined in ASTM Standard Practice E 1527-13. At the time of AKT Peerless' site reconnaissance, the subject property consisted of undeveloped, vegetated land (i.e., maintained lawn, trees) and was not used for a significant or obvious purpose.

The following REC was identified in connection with the subject property:

REC 1 - In October 2015, AKT Peerless completed a Phase I ESA of the subject property. AKT Peerless' October 2015 Phase I ESA identified one on-site REC (i.e., surficial and shallow subsurface fill material of unknown origin) on the south-central portion of the subject property and four off-site RECs (i.e., current and/or historical light industrial land uses). In September 2021, AKT

Peerless completed a Phase II ESA of the subject property evaluating these RECs. Soil contamination, including arsenic and selenium comingled with low-level PNAs, was identified in the soil sample collected from soil boring location PS-SB-1 to evaluate the on-site REC at concentrations exceeding Part 201 Generic RCC; contamination associated with the off-site RECs was not identified. In July 2022, G2 Consulting Group (G2) completed a geotechnical investigation of the subject property. Additional environmentally suspect fill material was identified at four of G2's 18 geotechnical soil boring locations (i.e., soil boring locations B-1, B-10, B-12, and B-18).

To assist the prospective subject property owner's Due Care decision-making with respect to the proposed redevelopment of the subject property for residential land use, AKT Peerless completed a Supplemental Phase II ESA of the subject property in November 2022 to (1) further evaluate soil contamination associated with on-site fill material of unknown origin on the south-central portion of the subject property (i.e., the PS-SB-1 delineation area) and (2) suspect fill material at geotechnical soil boring locations B-1, B-10, B-12, and B-18. Additional soil contamination, including arsenic, barium, chromium (total), lead, mercury, selenium, silver, zinc, acenaphthylene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, carbazole, dibenzo(a,h)anthracene, fluoranthene, naphthalene, and phenanthrene, was identified in one or more soil samples collected from the subject property at concentrations exceeding Part 201 Generic RCC.

Based on the results of AKT Peerless' September 2021 Phase II ESA and November 2022 Supplemental Phase II ESA, the subject property meets the definition of a "facility," as defined in Part 201 of the NREPA. The "facility" status of the subject property represents an REC.

A copy of AKT Peerless' November 2022 Phase I ESA Update is included in **Appendix C**.

1.4 Exceptions or Deletions

AKT Peerless did not deviate from ASTM Standard Practice E 1527 or AAI when performing the Phase I ESA and Phase I ESA Update (i.e., no components of that practice were deleted, and no additions to it were made).

1.5 Data Gaps

AKT Peerless did not identify or encounter instances of significant data gaps during the course of the Phase I ESA and Phase I ESA Update.

1.6 Previous Environmental Investigations

1.6.1 AKT Peerless' October 2015 Phase I ESA

In October 2015, AKT Peerless completed a Phase I ESA of the subject property. The Phase I ESA was conducted in accordance with USEPA Standards and Practices for AAI (40 CFR Part 312) and ASTM Standard Practice E 1527-13. At the time of the assessment, the subject property was improved with one two-story commercial building formerly used as the Boys and Girls Club recreation center and associated exterior baseball diamond, basketball court, and landscaped and parking areas. The commercial building was unoccupied and not used for a significant or obvious purpose at that time.

AKT Peerless identified the following RECs in connection with the subject property:

- During AKT Peerless' site reconnaissance, fill material (soil and concrete) was observed within the thick vegetation located along the southern property boundary. The nature and extent of this fill material is unknown.
- A southeastern adjoining property (206 N. Grove Street) was identified as an oil distributor which utilized a bulk oil storage yard from the mid-1950s until the late 1970s. This site was also listed as a State Hazardous Waste Site (SHWS) and was identified on the BEA database. In AKT Peerless' opinion, the past use of this adjoining property and identification on the SHWS and BEA databases represents an REC.
- A southern adjoining property (204 N. Park Street) was utilized as a coal storage yard and bulk oil and gasoline storage facility in the 1920s until the early 1970s. No information regarding any current or former underground storage tanks (USTs), aboveground storage tanks (ASTs), installation and removal dates, business practices, or other environmental data was identified. In AKT Peerless' opinion, the past use of this adjoining property represents an REC.
- A southern adjoining property (103 N. Grove Street) has been utilized for various industrial operations (including manufacturing, machine shop, foundry, and plating operations) from at least 1916 until the present day. This site was also listed on the Resource Conservation and Recovery Act (RCRA) and Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) databases with multiple hazardous waste violations identified. In AKT Peerless' opinion, the current and past use of this adjoining property represents an REC.
- A western adjoining property (223 N. Park Street) historically operated as a coal storage yard from at least 1916 until the mid-1960s. In AKT Peerless' opinion, the past use of the western adjoining property represents an REC.

1.6.2 AKT Peerless' September 2021 Phase II ESA

To further evaluate the RECs identified in its October 2015 Phase I ESA, AKT Peerless completed a Phase II ESA of the subject property on September 1, 2021. At the time of the assessment, the subject property consisted of undeveloped, vegetated land (i.e., maintained lawn and trees), consistent with current conditions (the former Boys and Girls Club building and exterior basketball court and baseball diamond features were demolished in 2016).

The Phase II ESA included: 1) the advancement of four soil borings, and (2) the collection of five soil samples and one soil duplicate sample. The soil samples were submitted for laboratory analyses of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), PNAs, Michigan Ten Metals,² arsenic, cadmium, chromium, lead, and/or hexavalent chromium. Groundwater was not encountered during subsurface investigation activities.

The following table summarizes each REC, the site investigation activities performed to address each REC, and the laboratory parameters used to address each REC.

² Michigan Ten Metals include arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, and zinc.

Summary of Investigation Activity

REC #	Environmental Concern	Investigation Activity	Analytical Parameters
1	Fill material on the southern portion of the subject property.	PS-SB-1 (1'-3') Soil Duplicate (PS-SB-1, 1'-3')	VOCs, SVOCs, Michigan Ten Metals, PCBs, and hexavalent chromium
2	Historical use of the southeastern adjoining property (206 N. Grove Street) as an oil distributor/bulk oil storage yard.	PS-SB-2 (17'-19')	VOCs, SVOCs, Michigan Ten Metals, and hexavalent chromium
3	Historical use of the southern adjoining property (204 N. Park Street) as a coal storage yard and bulk oil and gasoline facility.	PS-SB-1 (10'-12') PS-SB-3 (16'-18')	VOCs, PNAs, arsenic, cadmium, chromium, lead, and hexavalent chromium
4	Current and historical use of the southern adjoining property (103 N. Grove Street) for industrial operations.	PS-SB-1 (10'-12') PS-SB-2 (17'-19')	VOCs, SVOCs, PNAs, Michigan Ten Metals, arsenic, cadmium, chromium, lead, and/or hexavalent chromium
5	Historical use of the western adjoining property (223 N. Park Street) as a coal storage yard.	PS-SB-4 (6'-8')	VOCs, PNAs, arsenic

The results of the investigation indicate the following:

- Arsenic was detected in the shallow subsurface soil sample and soil duplicate sample collected from soil boring location PS-SB-1, which was advanced in part to evaluate on-site fill material, at concentrations exceeding Part 201 Generic RCC, including Groundwater Surface Water Interface Protection (GSIP) and Drinking Water Protection (DWP) criteria.
- Selenium was also detected in the shallow subsurface soil sample collected from soil boring location PS-SB-1, which was advanced in part to evaluate on-site fill material, at a concentration exceeding the Part 201 Generic GSIP criterion.
- Select PNAs were also detected in the shallow subsurface soil sample and soil duplicate sample collected from soil boring location PS-SB-1 at concentrations above analytical laboratory method detection limits (MDLs), but below Part 201 Generic RCC.

A copy of AKT Peerless' September 2021 Phase II ESA is provided in **Appendix D**.

1.6.3 G2's July 2022 Report on Geotechnical Investigation

Following completion of AKT Peerless' September 2022 Phase I ESA (see Section 1.3.1), AKT Peerless was provided a copy of a Report on Geotechnical Investigation prepared by G2 in July 2022 in connection with the proposed redevelopment of the subject property with residential dwellings by Renovare Ypsilanti Homes, LLC.

During the geotechnical investigation, G2 advanced 18 soil borings at the subject property (B-1 through B-18). Fill material was encountered in 14 of the 18 soil borings to maximum depths ranging from one

foot to eight feet below ground surface (bgs). The fill material was underlain by native soils (e.g., sands, silts, clays). G2 recommended traditional spread and strip footings for the proposed residential dwellings, with footings extending through fill material, where present, to bear on the underlying native soils. Soil samples were not collected for laboratory analyses of environmental parameters during G2’s geotechnical investigation.

In connection with Renovare Ypsilanti Homes, LLC’s draft Act 381 Work Plan, EGLE RRD reviewed G2’s Report on Geotechnical Investigation and identified the fill material encountered at geotechnical soil boring locations B-1, B-10, B-12, and B-18 as environmentally suspect based on color, the presence of demolition debris, etc. EGLE RRD relayed these considerations to AKT Peerless and Renovare Ypsilanti Homes, LLC in advance of the supplemental subsurface investigation summarized and discussed in Section 1.6.4 below.

1.6.4 AKT Peerless’ November 2022 Supplemental Phase II ESA

To further evaluate environmental conditions identified during AKT Peerless’ September 2021 Phase II ESA and G2’s July 2022 Report on Geotechnical Investigation, AKT Peerless completed a Supplemental Phase II ESA of the subject property on November 3, 2022. At the time of the assessment, the subject property consisted of undeveloped, vegetated land (i.e., maintained lawn, trees), consistent with current conditions.

The Supplemental Phase II ESA included: 1) the advancement of 18 soil borings (DB-1 through DB-14, B-1-E, B-10-E, B-12-E, and B-18-E), and 2) the collection of 18 soil samples. The soil samples were submitted for laboratory analyses of VOCs, SVOCs, Michigan Ten Metals, and PCBs. Groundwater was not encountered during supplemental subsurface investigation activities.

The following table summarizes each environmental condition, the site investigation activities performed to address each environmental condition, and the laboratory parameters used to address each environmental condition.

Summary of Investigation Activity

Environmental Condition	Investigation Activity	Analytical Parameters
Soil contamination associated with on-site fill material of unknown origin on the south-central portion of the subject property (i.e., in the vicinity of soil boring location PS-SB-1)	DB-1, DB-2, DB-3, DB-4, DB-5, DB-6, DB-7, DB-8, DB-9, DB-10, DB-11, DB-12, DB-13, DB-14, and B-18-E	VOCs, SVOCs, Michigan Ten Metals, and PCBs
Environmentally suspect fill material previously identified in four geotechnical soil borings (i.e., B-1, B-10, B-12, and B-18)	B-1-E, B-10-E, B-12-E, and B-18-E	VOCs, SVOCs, Michigan Ten Metals, and PCBs

The results of the supplemental subsurface investigation indicate the following:

- Arsenic, barium, chromium (total), lead, mercury, selenium, silver, and/or zinc were detected in soil samples collected from one or more of the soil borings advanced within the PS-SB-1 delineation area on the south-central portion of the subject property (i.e., DB-1 through DB-14)

and B-18-E) at concentrations exceeding Part 201 Generic RCC. In addition, acenaphthylene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, carbazole, dibenzo(a,h)anthracene, fluoranthene, naphthalene, and/or phenanthrene were detected in soil samples collected from select soil borings advanced within the PS-SB-1 delineation area (i.e., DB-10, DB-11, DB-12) at concentrations exceeding Part 201 Generic RCC. The concentrations of arsenic, lead, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene detected in select soil samples collected from the PS-SB-1 delineation area on the south-central portion of the subject property exceed Part 201 Generic RCC for Direct Contact (DC); otherwise, the target parameters listed above were detected at concentrations exceeding Part 201 Generic RCC for DWP and/or GSIP.

- Arsenic, chromium (total), mercury, and/or selenium were detected in the soil borings advanced to replicate geotechnical soil boring locations outside of the PS-SB-1 delineation area on the south-central portion of the subject property (i.e., B-1-E, B-10-E, and B-12-E) at concentrations exceeding Part 201 Generic RCC for DWP and/or GSIP. No target parameters were detected at concentrations exceeding Part 201 Generic RCC for DC in soil samples collected from soil borings advanced outside of the PS-SB-1 delineation area on the south-central portion of the subject property.

Based on analytical laboratory results associated with AKT Peerless' September 2021 Phase II ESA and November 2022 Supplemental Phase II ESA, the subject property meets the definition of a "facility," as defined in Part 201 of the NREPA.

Refer to Figure 2 for a site map with soil boring locations and Figure 3 for a site map with soil analytical results exceeding Part 201 Generic RCC. Refer to Table 1 for a summary of soil analytical results.

A copy of AKT Peerless' November 2022 Supplemental Phase II ESA is provided in **Appendix E**.

1.7 General Location(s) of Known Contamination and Media Affected

Based on the analytical laboratory results obtained during AKT Peerless' September 2021 Phase II ESA and November 2022 Supplemental Phase II ESA, arsenic, barium, chromium (total), lead, mercury, selenium, silver, zinc, acenaphthylene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, carbazole, dibenzo(a,h)anthracene, fluoranthene, naphthalene, and/or phenanthrene were detected in select soil samples collected from the PS-SB-1 delineation area on the south-central portion of the subject property at concentrations exceeding Part 201 Generic RCC for DWP, GSIP, and/or DC. In addition, arsenic, chromium (total), mercury, and/or selenium were detected in select soil samples collected from soil boring locations B-1-E, B-10-E, and B-12-E, which were advanced across the northern portion of the subject property, outside of the PS-SB-1 delineation area, at concentrations exceeding Part 201 Generic RCC for DWP and/or GSIP.

Refer to Figure 3 for a site map with soil analytical results exceeding Part 201 Generic RCC. Refer to Table 1 for names and chemical abstract service (CAS) numbers of all hazardous substances known to be present at the subject property.

1.8 Basis for Facility Determination

Based on the analytical laboratory results obtained during AKT Peerless' September 2021 Phase II ESA and November 2022 Supplemental Phase II ESA, the following substances were identified in soil sample(s) collected from the subject property at concentrations exceeding Part 201 Generic RCC:

Summary of Part 201 Generic RCC Exceedances

Hazardous Substance	CAS #	Hazardous Substance	CAS #
Arsenic	7440-38-2	Benzo(a)anthracene	56-55-3
Barium	7440-39-3	Benzo(a)pyrene	50-32-8
Chromium (total)	7440-47-3	Benzo(b)fluoranthene	205-99-2
Lead	7439-92-1	Carbazole	86-74-8
Mercury	7439-97-6	Dibenzo(a,h)anthracene	53-70-3
Selenium	7782-49-2	Fluoranthene	206-44-0
Silver	7440-22-4	Naphthalene	91-20-3
Zinc	7440-66-6	Phenanthrene	85-01-8
Acenaphthylene	208-96-8		

The subject property therefore meets the definition of a “facility,” as defined in Part 201 of the NREPA. Additional information regarding the contaminant concentrations can be found in Table 1 of this BEA and in AKT Peerless’ September 2021 Phase II ESA and November 2022 Supplemental Phase II ESA, which are included as **Appendices D** and **E**, respectively.

2.0 Property Information

General property information is presented in the following subsections.

2.1 Legal Description

A legal description of the subject property is provided in **Appendix A**.

2.2 Survey Map(s)

No survey maps were available for the subject property at the time of completion of this BEA. A parcel map from the MapWashtenaw geographic information system (GIS) mapping program is included in **Appendix F**.

2.3 Scaled Site Map(s)

Scaled site maps with site structure(s), sample location(s), and contaminant concentrations that exceed Part 201 Generic RCC are included as Figures 2 and 3.

2.4 Scaled Area Map

Refer to Figure 1 for a scaled area map showing the subject property in relation to surrounding properties.

2.5 Property Location

The subject property is bordered by High Street and a multi-family residential dwelling (i.e., Gilbert Mansion) to the north, by N. Grove Street to the east, by a Norfolk Southern Railway railroad to the south, and by N. Park Street to the west. See the following table for additional subject property details:

Subject Property Identifiers

Address	Tax Identification Number	Owner of Record	Approximate Acreage
220 N. Park Street	11-11-09-111-004	City of Ypsilanti	4.46 acres

Refer to Figure 1 for a topographic location map and Figure 2 for a site map.

2.6 Spatial Data

The subject property is located in the northeast ¼ of Section 9 (Township 3 South/Range 7 East) in Ypsilanti, Washtenaw County, Michigan, as observed on the United States Geological Survey (USGS) Topographic Map encompassing the subject property.

The coordinates of the subject property based on map interpolation are as follows:

Latitude (Decimal Degrees): 42.24375975 °N

Longitude (Decimal Degrees): -83.60502708 °W

Refer to Figure 1 for a topographic location map and Figure 2 for a site map.

3.0 Facility Status

3.1 Summary of Known Hazardous Substances

Hazardous substances exceeding Part 201 Generic RCC and respective CAS number(s), sample location(s), depth(s), and media affected are summarized in the following table:

Summary of Soil Analytical Results

Parameter	CAS Number	Sample Identification with Criteria Exceedance (depth)	Part 201 Generic RCC Exceeded/Established Criteria (µg/kg)	Maximum Concentration (µg/kg)/Sample Location
Arsenic	7440-38-2	PS-SB-1 (1'-3') Soil Duplicate* DB-1 (1'-3') DB-2 (2'-4') DB-3 (1'-3') DB-4 (1'-3') DB-5 (2'-4') DB-6 (2'-4') DB-7 (4'-6') DB-8 (4'-6') DB-9 (2'-4') DB-10 (2'-4') DB-11 (3'-5') DB-14 (1'-3') B-12-E (2'-4') B-18-E (2'-4')	DWP / 4,600 GSIP / 4,600 DC / 7,600	12,000 / DB-10, B-18-E
Barium	7440-39-3	B-18-E (2'-4')	DWP / 1,300,000	2,200,000 / B-18-E
Chromium, total	7440-47-3	DB-1 (1'-3') DB-2 (2'-4') DB-3 (1'-3') DB-4 (1'-3') DB-5 (2'-4') DB-6 (2'-4') DB-7 (4'-6') DB-8 (4'-6') DB-9 (2'-4') DB-10 (2'-4') DB-11 (3'-5') DB-12 (3'-5') DB-13 (1'-3') DB-14 (1'-3') B-1-E (1'-3') B-10-E (1'-3') B-12-E (2'-4') B-18-E (2'-4')	GSIP / 3,300	28,000 / B-18-E
Lead	7439-92-1	B-18-E (2'-4')	DWP / 700,000 DC / 400,000	31,000,000 / B-18-E

Parameter	CAS Number	Sample Identification with Criteria Exceedance (depth)	Part 201 Generic RCC Exceeded/Established Criteria (µg/kg)	Maximum Concentration (µg/kg)/Sample Location
Mercury	7439-97-6	DB-4 (1'-3') DB-7 (4'-6') DB-8 (4'-6') DB-9 (2'-4') DB-10 (2'-4') B-1-E (1'-3') B-10-E (1'-3') B-18-E (2'-4')	GSIP / 50	230 / B-18-E
Selenium	7782-49-2	PS-SB-1 (1'-3') DB-1 (1'-3') DB-2 (2'-4') DB-3 (1'-3') DB-5 (2'-4') DB-7 (4'-6') DB-8 (4'-6') DB-10 (2'-4') DB-13 (1'-3') DB-14 (1'-3') B-1-E (1'-3') B-10-E (1'-3') B-12-E (2'-4')	GSIP / 400	2,100 / B-10-E
Silver	7440-22-4	B-18-E (2'-4')	GSIP / 100	3,500 / B-18-E
Zinc	7440-66-6	B-18-E (2'-4')	DWP / 2,400,000	2,700,000 / B-18-E
Acenaphthylene	208-96-8	DB-12 (3'-5')	GSIP / 5,900	6,400 / DB-12
Benzo(a)anthracene	56-55-3	DB-12 (3'-5')	DC / 20,000	27,000 / DB-12
Benzo(a)pyrene	50-32-8	DB-10 (2'-4') DB-11 (3'-5') DB-12 (3'-5')	DC / 2,000	31,000 / DB-12
Benzo(b)fluoranthene	205-99-2	DB-12 (3'-5')	DC / 20,000	33,000 / DB-12
Carbazole	86-74-8	DB-12 (3'-5')	GSIP / 1,100	1,800 / DB-12
Dibenzo(a,h)anthracene	53-70-3	DB-12 (3'-5')	DC / 2,000	3,400 / DB-12
Fluoranthene	206-44-0	DB-10 (2'-4') DB-11 (3'-5') DB-12 (3'-5')	GSIP / 5,500	48,000 / DB-12

Parameter	CAS Number	Sample Identification with Criteria Exceedance (depth)	Part 201 Generic RCC Exceeded/Established Criteria (µg/kg)	Maximum Concentration (µg/kg)/Sample Location
Naphthalene	91-20-3	DB-10 (2'-4') DB-12 (3'-5')	GSIP / 730	2,400 / DB-12
Phenanthrene	85-01-8	DB-10 (2'-4') DB-11 (3'-5') DB-12 (3'-5')	GSIP / 2,100	31,000 / DB-12

Notes:

Sample identification: LETTER-# / LETTER-#-LETTER indicates soil boring location and (#-#) indicates sample depth interval in feet bgs.

*Soil Duplicate: PS-SB-1 (1'-3')
µg/kg – micrograms per kilogram

In addition to the exceedances of Part 201 Generic RCC summarized in the table above, lead was also detected in soil samples collected from soil boring locations DB-1, DB-8, DB-10, and DB-12 at concentrations greater than 75,000 µg/kg, a threshold above which EGLE RRD recommends fine fraction and coarse fraction lead analysis for the evaluation of the DC and Particulate Soil Inhalation (PSI) exposure pathways, but less than Part 201 Generic RCC. Consistent with the spatial distribution of other soil contaminants posing a potentially unacceptable dermal contact/ingestion exposure risk, these soil samples were also collected from the PS-SB-1 delineation area on the south-central portion of the subject property.

Refer also to Table 1 for a summary of hazardous substances detected at the subject property and a comparison to Part 201 Generic RCC.

3.2 Analytical Laboratory Data

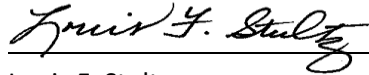
Analytical laboratory data sheets and chain of custody documents are included in AKT Peerless' September 2021 Phase II ESA and November 2022 Supplemental Phase II ESA, copies of which are included as **Appendices D** and **E**, respectively.

4.0 Signatures of Environmental Professionals and Qualifications

The following individuals contributed to the completion of this BEA. Copies of their resumes are provided in **Appendix G**.



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5.0 All Appropriate Inquiry Report

A copy of the Phase I ESA, dated September 13, 2022, is included as **Appendix B** and a copy of the Phase I ESA Update, dated November 18, 2022, is included as **Appendix C**. Per EGLE requirements, the environmental database search report(s) and copies of regulatory agency files have been removed from the Phase I ESA and Phase I ESA Update documents.

6.0 References

The following is a list of reference material not included in this document:

- Part 201 of the NREPA.
- ASTM Standard Practice E 1527, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*.
- ASTM Standard Practice E 1903, *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process*.

7.0 Limitations

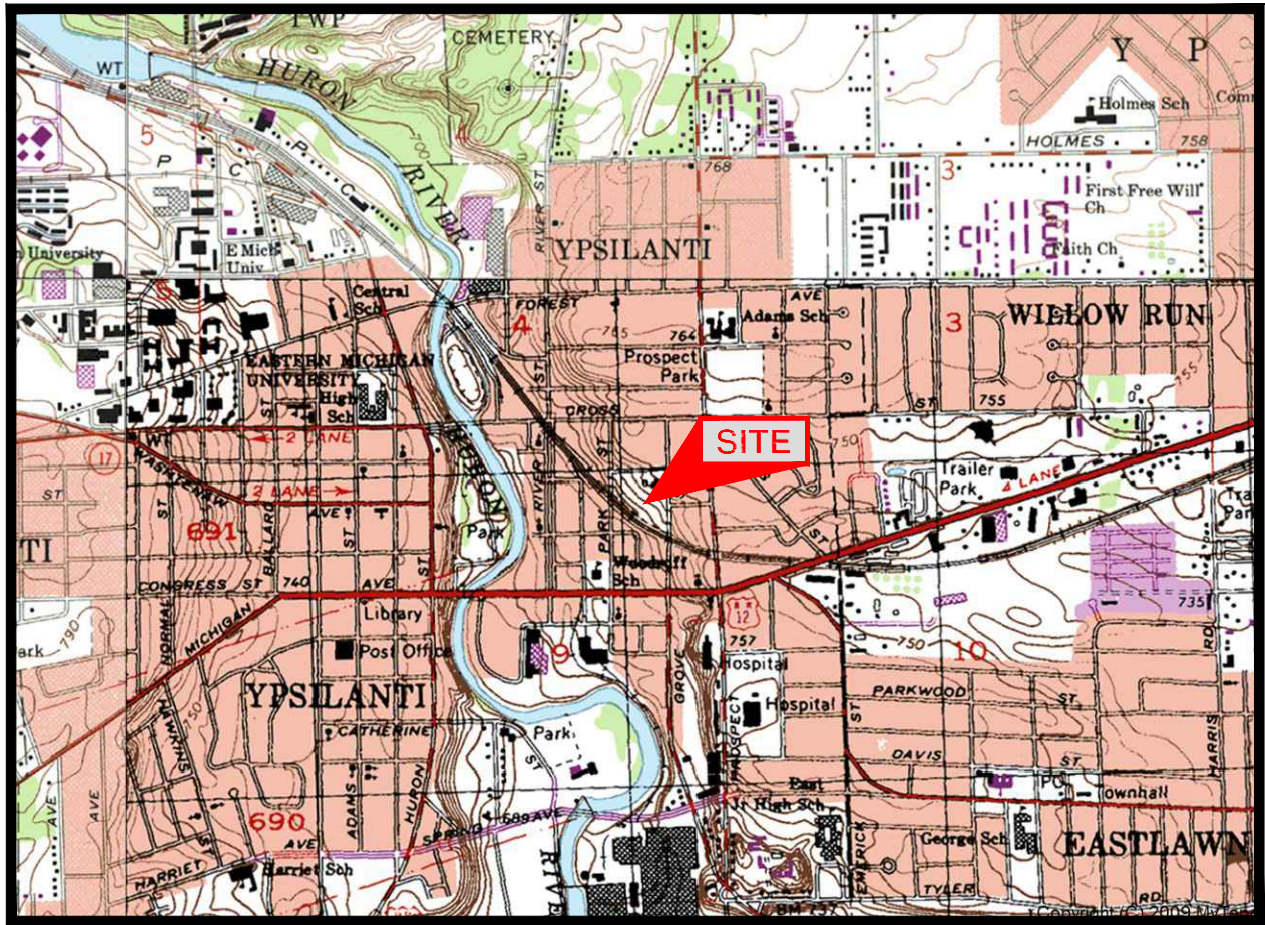
In performing its assessment, AKT Peerless has used reasonable care and has performed its work in keeping with industry standards and standard agency procedures as appropriate. AKT Peerless can offer no assurances and assumes no responsibility for site conditions or activities outside the limited scope of the inquiry requested by the Client. There can be no assurance, and AKT Peerless offers no assurance, that site conditions do not exist or could not exist in the future which could lead to liability in connection with the subject property. Accordingly, AKT Peerless has analyzed the information obtained in its limited investigation in keeping with existing environmental standards and enforcement practices, but cannot accurately predict what actions any given agency may take presently or what standards and practices may apply to the subject property in the future.

Although reasonable due diligence has been exercised in the design and conduct of this study, it must be noted that the results of this investigation do not provide sufficient information to warranty that no environmental risks are associated with well-disguised or illegal chemical and/or waste management activities.

This report has been prepared for the sole use of Renovare Ypsilanti Homes, LLC, the Prospective Property Owner and Operator. This report and the findings contained herein shall not be relied upon by any third party, in whole or in part, without the prior written consent of AKT Peerless. This report and the findings contained herein shall not be disclosed, disseminated or conveyed to any third party, in whole or in part, except as directed by Renovare Ypsilanti Homes, LLC, or as required by law or regulation.

Figures

YPSILANTI EAST QUADRANGLE
 MICHIGAN - WASHTENAW COUNTY
 7.5 MINUTE SERIES (TOPOGRAPHIC)



T.3 S.-R.7 E.

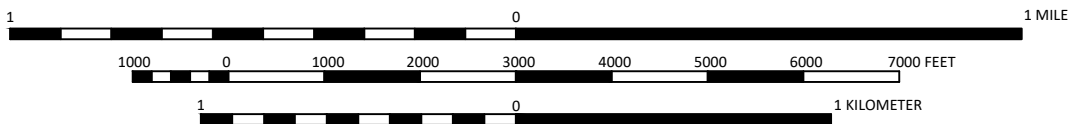


IMAGE TAKEN FROM 1996 U.S.G.S. TOPOGRAPHIC MAP

MICHIGAN
 QUADRANGLE LOCATION



TOPOGRAPHIC LOCATION MAP

220 N. PARK STREET
 YPSILANTI, MICHIGAN
 PROJECT NUMBER : 10627F3-2-26

DRAWN BY: MST
 DATE: 11/28/2022

FIGURE 1



GREAT LAKES DESIGN, LLC
301 N. PARK STREET

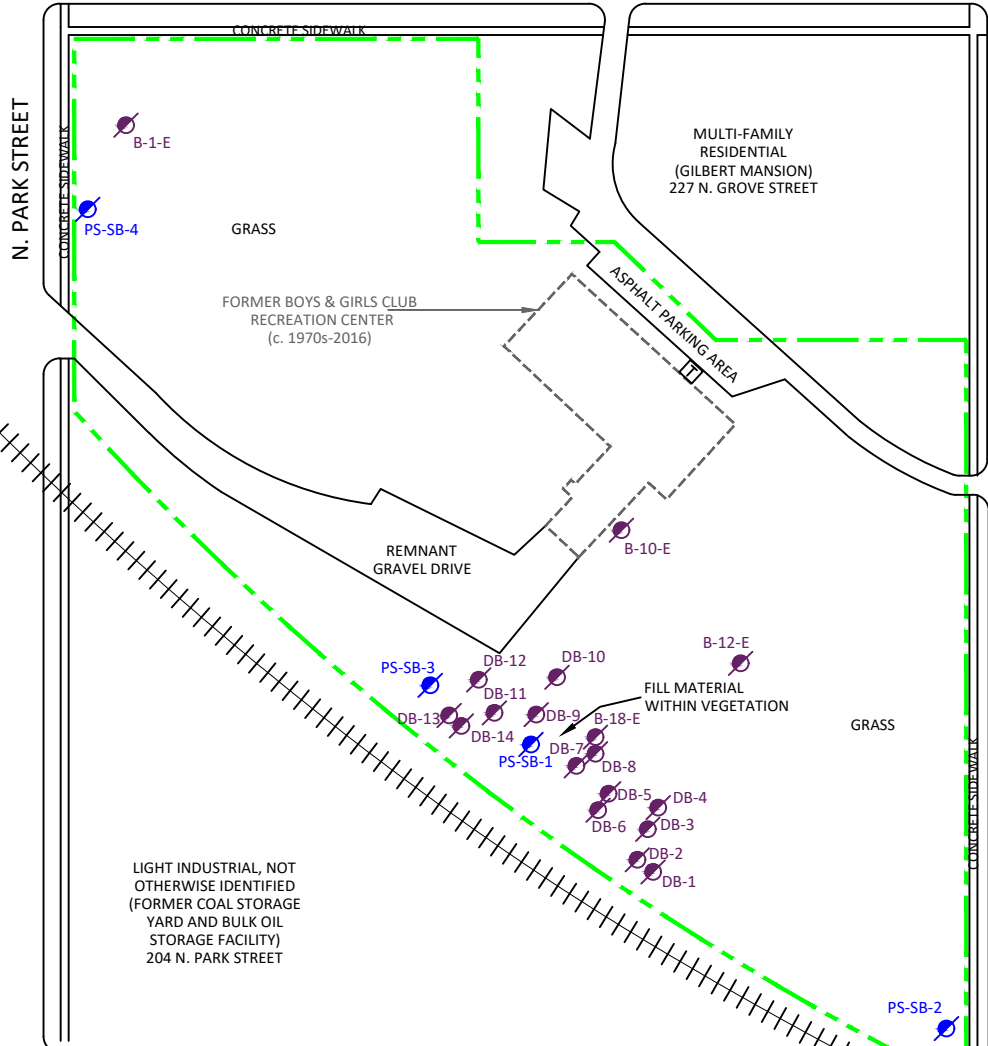
SINGLE-FAMILY
RESIDENTIAL
302 N. PARK STREET

SINGLE-FAMILY
RESIDENTIAL
313 HIGH STREET

SINGLE-FAMILY
RESIDENTIAL
315 HIGH STREET

HIGH STREET

UNDEVELOPED LAND,
REMNANT PAVED
PARKING LOT
(FORMER COAL
STORAGE LOT)
223 N. PARK STREET



SINGLE-FAMILY
RESIDENTIAL
209-213 N. PARK STREET

MULTI-FAMILY
RESIDENTIAL
(GILBERT MANSION)
227 N. GROVE STREET

SINGLE-FAMILY
RESIDENTIAL
216 N. GROVE STREET

N. GROVE STREET

LOCUST STREET

SINGLE-FAMILY
RESIDENTIAL
410 LOCUST STREET

SINGLE-FAMILY
RESIDENTIAL
214 N. GROVE STREET
SINGLE-FAMILY
RESIDENTIAL
212 N. GROVE STREET

LIGHT INDUSTRIAL, NOT
OTHERWISE IDENTIFIED
(FORMER COAL STORAGE
YARD AND BULK OIL
STORAGE FACILITY)
204 N. PARK STREET

FILL MATERIAL
WITHIN VEGETATION

GRASS

NORTH STREET

- LEGEND**
- = PROPERTY LINE
 - = RAILROAD LINE
 - = PAD MOUNTED TRANSFORMER
 - = SOIL BORING, JULY 2022
 - = SOIL BORING, SEPTEMBER 2022

MARSH PLATING
(FORMER FOUNDRY & MANUFACTURING)
103 N. GROVE STREET
(CERCLIS NFRAP, RCRA TSD, RCRA LQG,
UST, AST, DESLISTED TANK, WDS)

SINGLE-FAMILY
RESIDENTIAL
208 N. GROVE STREET
UNDEVELOPED LAND,
REMNANT PAVED
PARKING LOT
(FORMER LIGHT
INDUSTRIAL AND
OIL STORAGE)
(BEA, SHWS, UST, RCRA
NON-GEN, WDS,
FIND/FRS)
206 N. GROVE STREET

SITE MAP WITH SOIL BORING LOCATIONS



220 N. PARK STREET
YPSILANTI, MICHIGAN
PROJECT NUMBER: 10627F3-2-26

DRAWN BY: MST/OGO
DATE: 11/28/2022

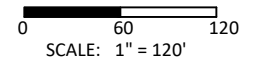
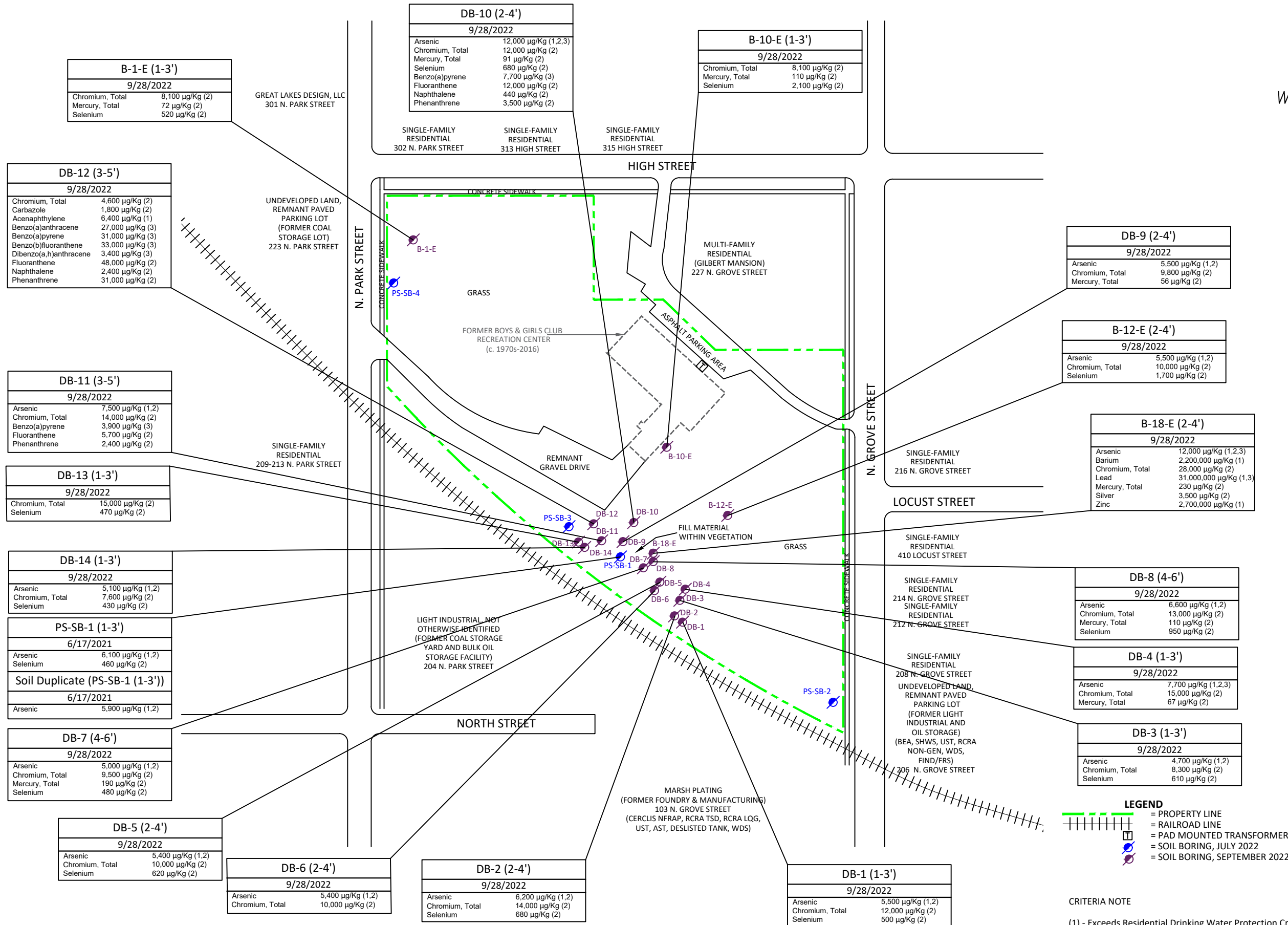


FIGURE 2



DRAWN BY: OGO
DATE: 11/28/2022

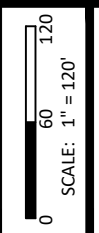


FIGURE 3

SITE MAP WITH SOIL ANALYTICAL RESULTS EXCEEDING PART 201 GENERIC RCC

220 N. PARK STREET
YPSILANTI, MICHIGAN
PROJECT NUMBER: 10627F3-2-26

- LEGEND**
- = PROPERTY LINE
 - = RAILROAD LINE
 - = PAD MOUNTED TRANSFORMER
 - = SOIL BORING, JULY 2022
 - = SOIL BORING, SEPTEMBER 2022

- CRITERIA NOTE**
- (1) - Exceeds Residential Drinking Water Protection Criteria
 - (2) - Exceeds Groundwater Surface Water Interface Protection Criteria
 - (3) - Exceeds Residential Direct Contact Criteria



Tables

Table 1: Summary of Soil Analytical Results

220 N. Park Street

Ypsilanti, Michigan

AKT Peerless Project No. 10627F3-2-26

Parameters <i>(Refer to detailed laboratory report for method reference data)</i>	Chemical Abstract Service (CAS) Number	Statewide Default Background Levels (SDBLs)	Residential Drinking Water Protection (DWP) Criteria	Groundwater Surface Water Interface Protection (GSIP) Criteria	Residential Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Residential Infinite Source Volatile Soil Inhalation Criteria (VSIC)	Residential Particulate Soil Inhalation Criteria (PSIC)	Residential Direct Contact (DC) Criteria	Soil Saturation Concentration (C _{SAT}) Screening Levels	Maximum Concentration Detected	Sample Location	PS-SB-1	Soil Duplicate (PS-SB-1)	DB-1	DB-2	DB-3	DB-4	DB-5	DB-6	
											Collection Date	6/17/2021	6/17/2021	9/28/2022	9/28/2022	9/28/2022	9/28/2022	9/28/2022	9/28/2022	
											Depth	1'-3'	1'-3'	1'-3'	2'-4'	1'-3'	1'-3'	2'-4'	2'-4'	
		µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Metals																				
Arsenic	7440-38-2	5,800	4,600	4,600	NLV	NLV	7.20E+05	7,600	NA	12,000		6,100	5,900	5,500	6,200	4,700	7,700	5,400	5,400	
Barium (B)	7440-39-3	75,000	1,300,000	(G)	NLV	NLV	3.30E+08	3.70E+07	NA	2,200,000		41,000	44,000	40,000	60,000	37,000	86,000	41,000	42,000	
Cadmium (B)	7440-43-9	1,200	6,000	(G,X)	NLV	NLV	1.70E+06	5.50E+05	NA	5,500		230	230	<200	210	<200	<200	<200	<200	
Chromium, Total	7440-47-3	18,000 (total)	30,000	3,300	NLV	NLV	2.60E+05	2.50E+06	NA	28,000		-	-	12,000	14,000	8,300	15,000	10,000	10,000	
Chromium III (B,H)	16065-83-1	18,000 (total)	1.0E+9 (D)	(G,X)	NLV	NLV	3.3E+8	7.9E+8	NA	13,000		9,400	12,000	NS	NS	NS	NS	NS	NS	
Chromium VI	18540-29-9	NA	30,000	3,300	NLV	NLV	2.6E+5	2.5E+6	NA	BDL		<2,000	<2,000	NS	NS	NS	NS	NS	NS	
Copper (B)	7440-50-8	32,000	5.80E+06	(G)	NLV	NLV	1.30E+08	2.00E+07	NA	110,000		13,000	14,000	17,000	18,000	9,800	17,000	12,000	11,000	
Lead (B)	7439-92-1	21,000	700,000	(G,X)	NLV	NLV	1.00E+08	400,000	NA	31,000,000		32,000	32,000	140,000	68,000	17,000	19,000	28,000	12,000	
Mercury, Total	7439-97-6	130	1,700	50 (M); 1.2	48,000	52,000	2.00E+07	1.60E+05	NA	230		<50	<50	<50	<50	<50	67	<50	<50	
Selenium (B)	7782-49-2	410	4,000	400	NLV	NLV	1.30E+08	2.60E+06	NA	2,100		460	<400	500	680	610	<450	620	370	
Silver (B)	7440-22-4	1,000	4,500	100 (M); 27	NLV	NLV	6.70E+06	2.50E+06	NA	3,500		<430	<400	<480	<370	<410	<450	<440	<350	
Zinc (B)	7440-66-6	47,000	2,400,000	(G)	NLV	NLV	ID	1.70E+08	NA	2,700,000		44,000	45,000	50,000	52,000	32,000	53,000	42,000	35,000	
Polychlorinated Biphenyls (PCBs)																				
Polychlorinated biphenyls (PCBs) (J,T)	1336-36-3	NA	NLL	NLL	3.00E+06	2.40E+05	5.20E+06	1,000 (T)	NA	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Semivolatile Organic Compounds (SVOCs)																				
Carbazole	86-74-8	NA	9,400	1,100	NLV	NLV	6.20E+07	5.30E+05	NA	1,800		<330	<330	<330	<330	<330	<330	<330	<330	
Dibenzofuran	132-64-9	NA	ID	1,700	2.00E+06	1.30E+05	6.70E+06	ID	NA	1,700		<330	<330	<330	<330	<330	<330	<330	<330	
bis(2-Ethylhexyl)phthalate	117-81-7	NA	NLL	NLL	NLV	NLV	7.0E+8	2.8E+6	1.0E+7	750		<330	<330	<330	<330	<330	<330	<330	<330	
Remaining SVOCs	Various	-	-	-	-	-	-	-	-	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Polynuclear Aromatic Hydrocarbons (PNAs)																				
Acenaphthene	83-32-9	NA	3.00E+05	8,700	1.90E+08	8.10E+07	1.40E+10	4.10E+07	NA	330		<330	<330	<330	<330	<330	<330	<330	<330	
Acenaphthylene	208-96-8	NA	5,900	ID	1.60E+06	2.20E+06	2.30E+09	1.60E+06	NA	6,400		<330	<330	<330	<330	<330	<330	<330	<330	
Anthracene	120-12-7	NA	41,000	ID	1.0E+9 (D)	1.40E+09	6.70E+10	2.30E+08	NA	8,000		<330	<330	<330	<330	<330	<330	<330	<330	
Benzo(a)anthracene (Q)	56-55-3	NA	NLL	NLL	NLV	NLV	ID	20,000	NA	27,000		360	<330	<330	<330	<330	<330	450	<330	
Benzo(a)pyrene (Q)	50-32-8	NA	NLL	NLL	NLV	NLV	1.50E+06	2,000	NA	31,000		370	<330	<330	<330	<330	<330	500	<330	
Benzo(b)fluoranthene (Q)	205-99-2	NA	NLL	NLL	ID	ID	ID	20,000	NA	33,000		540	470	<330	<330	350	<330	550	<330	
Benzo(g,h,i)perylene	191-24-2	NA	NLL	NLL	NLV	NLV	8.00E+08	2.50E+06	NA	18,000		<330	<330	<330	<330	<330	<330	<330	<330	
Benzo(k)fluoranthene (Q)	207-08-9	NA	NLL	NLL	NLV	NLV	ID	2.00E+05	NA	11,000		<330	<330	<330	<330	<330	<330	<330	<330	
Chrysene (Q)	218-01-9	NA	NLL	NLL	ID	ID	ID	2.00E+06	NA	25,000		390	<330	<330	<330	<330	<330	410	<330	
Dibenzo(a,h)anthracene (Q)	53-70-3	NA	NLL	NLL	NLV	NLV	ID	2,000	NA	3,400		<330	<330	<330	<330	<330	<330	<330	<330	
Fluoranthene	206-44-0	NA	7.30E+05	5,500	1.0E+9 (D)	7.40E+08	9.30E+09	4.60E+07	NA	48,000		610	470	<330	<330	450	<330	950	<330	
Fluorene	86-73-7	NA	3.90E+05	5,300	5.80E+08	1.30E+08	9.30E+09	2.70E+07	NA	3,100		<330	<330	<330	<330	<330	<330	<330	<330	
Indeno(1,2,3-cd)pyrene (Q)	193-39-5	NA	NLL	NLL	NLV	NLV	ID	20,000	NA	20,000		<330	<330	<330	<330	<330	<330	340	<330	
2-Methylnaphthalene	91-57-6	NA	57,000	4,200	2.70E+06	1.50E+06	6.70E+08	8.10E+06	NA	890		<330	<330	<330	<330	<330	<330	<330	<330	
Naphthalene	91-20-3	NA	35,000	730	2.50E+05	3.00E+05	2.00E+08	1.60E+07	NA	2,400		<330	<330	<330	<330	<330	<330	<330	<330	
Phenanthrene	85-01-8	NA	56,000	2,100	2.80E+06	1.60E+05	6.70E+06	1.60E+06	NA	31,000		<330	<330	<330	<330	<330	<330	440	<330	
Pyrene	129-00-0	NA	4.80E+05	ID	1.0E+9 (D)	6.50E+08	6.70E+09	2.90E+07	NA	51,000		520	540	<330	<330	390	<330	830	<330	
Volatile Organic Compounds (VOCs)																				
Xylenes (I)	1330-20-7	NA	5,600	980	6.3E+6 (C)	4.60E+07	2.90E+11	4.1E+8 (C)	1.50E+05	69		<150	<150	<150	59	<150	<150	<150	<150	
Remaining VOCs	Various	-	-	-	-	-	-	-	-	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	

Table 1: Summary of Soil Analytical Results
220 N. Park Street
Ypsilanti, Michigan
AKT Peerless Project No. 10627F3-2-26

Parameters <i>(Refer to detailed laboratory report for method reference data)</i>	Chemical Abstract Service (CAS) Number	Statewide Default Background Levels (SDBLs)	Residential Drinking Water Protection (DWP) Criteria	Groundwater Surface Water Interface Protection (GSIP) Criteria	Residential Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Residential Infinite Source Volatile Soil Inhalation Criteria (VSIC)	Residential Particulate Soil Inhalation Criteria (PSIC)	Residential Direct Contact (DC) Criteria	Soil Saturation Concentration (C _{SAT}) Screening Levels	Maximum Concentration Detected	Sample Location	DB-7	DB-8	DB-9	DB-10	DB-11	DB-12	DB-13	DB-14		
											Collection Date	9/28/2022	9/28/2022	9/28/2022	9/28/2022	9/28/2022	9/28/2022	9/28/2022	9/28/2022	9/28/2022	
											Depth	4'-6'	4'-6'	2'-4'	2'-4'	3'-5'	3'-5'	1'-3'	1'-3'		
											µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
Metals																					
Arsenic	7440-38-2	5,800	4,600	4,600	NLV	NLV	7.20E+05	7,600	NA	12,000		5,000	6,600	5,500	12,000	7,500	2,000	4,200	5,100		
Barium (B)	7440-39-3	75,000	1,300,000	(G)	NLV	NLV	3.30E+08	3.70E+07	NA	2,200,000		50,000	210,000	40,000	120,000	70,000	21,000	38,000	26,000		
Cadmium (B)	7440-43-9	1,200	6,000	(G,X)	NLV	NLV	1.70E+06	5.50E+05	NA	5,500		<200	450	<200	380	<200	280	<200	<200		
Chromium, Total	7440-47-3	18,000 (total)	30,000	3,300	NLV	NLV	2.60E+05	2.50E+06	NA	28,000		9,500	13,000	9,800	12,000	14,000	4,600	15,000	7,600		
Chromium III (B,H)	16065-83-1	18,000 (total)	1.0E+9 (D)	(G,X)	NLV	NLV	3.3E+8	7.9E+8	NA	13,000		NS	NS	NS	NS	NS	NS	NS	NS		
Chromium VI	18540-29-9	NA	30,000	3,300	NLV	NLV	2.6E+5	2.5E+6	NA	BDL		NS	NS	NS	NS	NS	NS	NS	NS		
Copper (B)	7440-50-8	32,000	5.80E+06	(G)	NLV	NLV	1.30E+08	2.00E+07	NA	110,000		12,000	22,000	11,000	14,000	17,000	15,000	15,000	13,000		
Lead (B)	7439-92-1	21,000	700,000	(G,X)	NLV	NLV	1.00E+08	400,000	NA	31,000,000		45,000	210,000	18,000	200,000	23,000	95,000	10,000	21,000		
Mercury, Total	7439-97-6	130	1,700	50 (M); 1.2	48,000	52,000	2.00E+07	1.60E+05	NA	230		190	110	56	91	<50	<50	<50	<50		
Selenium (B)	7782-49-2	410	4,000	400	NLV	NLV	1.30E+08	2.60E+06	NA	2,100		480	950	<380	680	<420	<360	470	430		
Silver (B)	7440-22-4	1,000	4,500	100 (M); 27	NLV	NLV	6.70E+06	2.50E+06	NA	3,500		<420	<450	<380	<420	<420	<360	<450	<390		
Zinc (B)	7440-66-6	47,000	2,400,000	(G)	NLV	NLV	ID	1.70E+08	NA	2,700,000		38,000	150,000	33,000	68,000	45,000	38,000	37,000	33,000		
Polychlorinated Biphenyls (PCBs)																					
Polychlorinated biphenyls (PCBs) (J,T)	1336-36-3	NA	NLL	NLL	3.00E+06	2.40E+05	5.20E+06	1,000 (T)	NA	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
Semivolatile Organic Compounds (SVOCs)																					
Carbazole	86-74-8	NA	9,400	1,100	NLV	NLV	6.20E+07	5.30E+05	NA	1,800		<330	<330	<350	<370	<720	1,800	<330	<330		
Dibenzofuran	132-64-9	NA	ID	1,700	2.00E+06	1.30E+05	6.70E+06	ID	NA	1,700		<330	<330	<350	<370	<720	1,700	<330	<330		
bis(2-Ethylhexyl)phthalate	117-81-7	NA	NLL	NLL	NLV	NLV	7.0E+8	2.8E+6	1.0E+7	750		<330	<330	<350	<370	<720	750	<330	<330		
Remaining SVOCs	Various	-	-	-	-	-	-	-	-	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
Polynuclear Aromatic Hydrocarbons (PNAs)																					
Acenaphthene	83-32-9	NA	3.00E+05	8,700	1.90E+08	8.10E+07	1.40E+10	4.10E+07	NA	330		<330	<330	<330	<330	<330	330	<330	<330		
Acenaphthylene	208-96-8	NA	5,900	ID	1.60E+06	2.20E+06	2.30E+09	1.60E+06	NA	6,400		<330	<330	<330	1,300	950	6,400	<330	<330		
Anthracene	120-12-7	NA	41,000	ID	1.0E+9 (D)	1.40E+09	6.70E+10	2.30E+08	NA	8,000		<330	<330	370	1,800	910	8,000	<330	<330		
Benzo(a)anthracene (Q)	56-55-3	NA	NLL	NLL	NLV	NLV	ID	20,000	NA	27,000		<330	780	860	7,300	3,800	27,000	370	<330		
Benzo(a)pyrene (Q)	50-32-8	NA	NLL	NLL	NLV	NLV	1.50E+06	2,000	NA	31,000		<330	950	790	7,700	3,900	31,000	420	<330		
Benzo(b)fluoranthene (Q)	205-99-2	NA	NLL	NLL	ID	ID	ID	20,000	NA	33,000		<330	1,100	880	7,500	4,300	33,000	510	<330		
Benzo(g,h,i)perylene	191-24-2	NA	NLL	NLL	NLV	NLV	8.00E+08	2.50E+06	NA	18,000		<330	560	400	3,900	2,100	18,000	<330	<330		
Benzo(k)fluoranthene (Q)	207-08-9	NA	NLL	NLL	NLV	NLV	ID	2.00E+05	NA	11,000		<330	360	360	2,700	1,600	11,000	<330	<330		
Chrysene (Q)	218-01-9	NA	NLL	NLL	ID	ID	ID	2.00E+06	NA	25,000		<330	730	660	5,800	3,200	25,000	360	<330		
Dibenzo(a,h)anthracene (Q)	53-70-3	NA	NLL	NLL	NLV	NLV	ID	2,000	NA	3,400		<330	<330	<330	820	510	3,400	<330	<330		
Fluoranthene	206-44-0	NA	7.30E+05	5,500	1.0E+9 (D)	7.40E+08	9.30E+09	4.60E+07	NA	48,000		<330	1,200	1,500	12,000	5,700	48,000	610	350		
Fluorene	86-73-7	NA	3.90E+05	5,300	5.80E+08	1.30E+08	9.30E+09	2.70E+07	NA	3,100		<330	<330	<330	380	<330	3,100	<330	<330		
Indeno(1,2,3-cd)pyrene (Q)	193-39-5	NA	NLL	NLL	NLV	NLV	ID	20,000	NA	20,000		<330	630	450	4,200	2,300	20,000	<330	<330		
2-Methylnaphthalene	91-57-6	NA	57,000	4,200	2.70E+06	1.50E+06	6.70E+08	8.10E+06	NA	890		<330	<330	<330	<330	<330	890	<330	<330		
Naphthalene	91-20-3	NA	35,000	730	2.50E+05	3.00E+05	2.00E+08	1.60E+07	NA	2,400		<330	<330	<330	440	<330	2,400	<330	<330		
Phenanthrene	85-01-8	NA	56,000	2,100	2.80E+06	1.60E+05	6.70E+06	1.60E+06	NA	31,000		<330	500	1,100	3,500	2,400	31,000	<330	<330		
Pyrene	129-00-0	NA	4.80E+05	ID	1.0E+9 (D)	6.50E+08	6.70E+09	2.90E+07	NA	51,000		<330	1,300	1,300	12,000	5,400	51,000	590	<330		
Volatile Organic Compounds (VOCs)																					
Xylenes (I)	1330-20-7	NA	5,600	980	6.3E+6 (C)	4.60E+07	2.90E+11	4.1E+8 (C)	1.50E+05	69		<150	<150	<150	<150	<150	<150	69	<150		
Remaining VOCs	Various	-	-	-	-	-	-	-	-	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		

Table 1: Summary of Soil Analytical Results
220 N. Park Street
Ypsilanti, Michigan
AKT Peerless Project No. 10627F3-2-26

Parameters <i>(Refer to detailed laboratory report for method reference data)</i>	Chemical Abstract Service (CAS) Number	Statewide Default Background Levels (SDBLs)	Residential Drinking Water Protection (DWP) Criteria	Groundwater Surface Water Interface Protection (GSIP) Criteria	Residential Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Residential Infinite Source Volatile Soil Inhalation Criteria (VSIC)	Residential Particulate Soil Inhalation Criteria (PSIC)	Residential Direct Contact (DC) Criteria	Soil Saturation Concentration (C _{SAT}) Screening Levels	Maximum Concentration Detected	Sample Location	PS-SB-1	PS-SB-2	PS-SB-3	PS-SB-4	B-1-E	B-10-E	B-12-E	B-18-E			
											Collection Date	6/17/2021	6/17/2021	6/17/2021	6/17/2021	9/28/2022	9/28/2022	9/28/2022	9/28/2022			
											Depth	10'-12'	17'-19'	16'-18'	6'-8'	1'-3'	1'-3'	2'-4'	2'-4'			
		µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg		
Metals																						
Arsenic	7440-38-2	5,800	4,600	4,600	NLV	NLV	7.20E+05	7,600	NA	12,000		<2,000	6,000*	4,000	2,100	3,800	3,000	5,500	12,000			
Barium (B)	7440-39-3	75,000	1,300,000	(G)	NLV	NLV	3.30E+08	3.70E+07	NA	2,200,000		NS	16,000	NS	NS	45,000	46,000	31,000	2,200,000			
Cadmium (B)	7440-43-9	1,200	6,000	(G,X)	NLV	NLV	1.70E+06	5.50E+05	NA	5,500		<200	220	<200	NS	<200	460	<200	5,500			
Chromium, Total	7440-47-3	18,000 (total)	30,000	3,300	NLV	NLV	2.60E+05	2.50E+06	NA	28,000		-	-	-	NS	8,100	8,100	10,000	28,000			
Chromium III (B,H)	16065-83-1	18,000 (total)	1.0E+9 (D)	(G,X)	NLV	NLV	3.3E+8	7.9E+8	NA	13,000		13,000	11,000	11,000	NS	NS	NS	NS	NS			
Chromium VI	18540-29-9	NA	30,000	3,300	NLV	NLV	2.6E+5	2.5E+6	NA	BDL		<2,000	<2,000	<2,000	NS	NS	NS	NS	NS			
Copper (B)	7440-50-8	32,000	5.80E+06	(G)	NLV	NLV	1.30E+08	2.00E+07	NA	110,000		NS	10,000	NS	NS	14,000	16,000	16,000	110,000			
Lead (B)	7439-92-1	21,000	700,000	(G,X)	NLV	NLV	1.00E+08	400,000	NA	31,000,000		<10,000	<10,000	<10,000	NS	60,000	44,000	17,000	31,000,000			
Mercury, Total	7439-97-6	130	1,700	50 (M); 1.2	48,000	52,000	2.00E+07	1.60E+05	NA	230		NS	<50	NS	NS	72	110	<50	230			
Selenium (B)	7782-49-2	410	4,000	400	NLV	NLV	1.30E+08	2.60E+06	NA	2,100		NS	<350	NS	NS	520	2,100	1,700	<4,300			
Silver (B)	7440-22-4	1,000	4,500	100 (M); 27	NLV	NLV	6.70E+06	2.50E+06	NA	3,500		NS	<350	NS	NS	<390	<490	<440	3,500			
Zinc (B)	7440-66-6	47,000	2,400,000	(G)	NLV	NLV	ID	1.70E+08	NA	2,700,000		NS	43,000	NS	NS	45,000	48,000	40,000	2,700,000			
Polychlorinated Biphenyls (PCBs)																						
Polychlorinated biphenyls (PCBs) (J,T)	1336-36-3	NA	NLL	NLL	3.00E+06	2.40E+05	5.20E+06	1,000 (T)	NA	BDL		NS	NS	NS	NS	BDL	BDL	BDL	BDL			
Semivolatile Organic Compounds (SVOCs)																						
Carbazole	86-74-8	NA	9,400	1,100	NLV	NLV	6.20E+07	5.30E+05	NA	1,800		NS	NS	NS	NS	<330	<330	<330	<330			
Dibenzofuran	132-64-9	NA	ID	1,700	2.00E+06	1.30E+05	6.70E+06	ID	NA	1,700		NS	NS	NS	NS	<330	<330	<330	<330			
bis(2-Ethylhexyl)phthalate	117-81-7	NA	NLL	NLL	NLV	NLV	7.0E+8	2.8E+6	1.0E+7	750		NS	NS	NS	NS	<330	<330	<330	<330			
Remaining SVOCs	Various	-	-	-	-	-	-	-	-	BDL		NS	NS	NS	NS	BDL	BDL	BDL	BDL			
Polynuclear Aromatic Hydrocarbons (PNAs)																						
Acenaphthene	83-32-9	NA	3.00E+05	8,700	1.90E+08	8.10E+07	1.40E+10	4.10E+07	NA	330		<330	<330	<330	<330	<330	<330	<330	<330			
Acenaphthylene	208-96-8	NA	5,900	ID	1.60E+06	2.20E+06	2.30E+09	1.60E+06	NA	6,400		<330	<330	<330	<330	<330	<330	<330	<330			
Anthracene	120-12-7	NA	41,000	ID	1.0E+9 (D)	1.40E+09	6.70E+10	2.30E+08	NA	8,000		<330	<330	<330	<330	<330	<330	<330	<330			
Benzo(a)anthracene (Q)	56-55-3	NA	NLL	NLL	NLV	NLV	ID	20,000	NA	27,000		<330	<330	<330	<330	<330	<330	<330	390			
Benzo(a)pyrene (Q)	50-32-8	NA	NLL	NLL	NLV	NLV	1.50E+06	2,000	NA	31,000		<330	<330	<330	<330	<330	<330	<330	500			
Benzo(b)fluoranthene (Q)	205-99-2	NA	NLL	NLL	ID	ID	ID	20,000	NA	33,000		<330	<330	<330	<330	<330	<330	<330	540			
Benzo(g,h,i)perylene	191-24-2	NA	NLL	NLL	NLV	NLV	8.00E+08	2.50E+06	NA	18,000		<330	<330	<330	<330	<330	<330	<330	<330			
Benzo(k)fluoranthene (Q)	207-08-9	NA	NLL	NLL	NLV	NLV	ID	2.00E+05	NA	11,000		<330	<330	<330	<330	<330	<330	<330	<330			
Chrysene (Q)	218-01-9	NA	NLL	NLL	ID	ID	ID	2.00E+06	NA	25,000		<330	<330	<330	<330	<330	<330	<330	380			
Dibenzo(a,h)anthracene (Q)	53-70-3	NA	NLL	NLL	NLV	NLV	ID	2,000	NA	3,400		<330	<330	<330	<330	<330	<330	<330	<330			
Fluoranthene	206-44-0	NA	7.30E+05	5,500	1.0E+9 (D)	7.40E+08	9.30E+09	4.60E+07	NA	48,000		<330	<330	<330	<330	330	<330	<330	630			
Fluorene	86-73-7	NA	3.90E+05	5,300	5.80E+08	1.30E+08	9.30E+09	2.70E+07	NA	3,100		<330	<330	<330	<330	<330	<330	<330	<330			
Indeno(1,2,3-cd)pyrene (Q)	193-39-5	NA	NLL	NLL	NLV	NLV	ID	20,000	NA	20,000		<330	<330	<330	<330	<330	<330	<330	390			
2-Methylnaphthalene	91-57-6	NA	57,000	4,200	2.70E+06	1.50E+06	6.70E+08	8.10E+06	NA	890		<330	<330	<330	<330	<330	<330	<330	<330			
Naphthalene	91-20-3	NA	35,000	730	2.50E+05	3.00E+05	2.00E+08	1.60E+07	NA	2,400		<330	<330	<330	<330	<330	<330	<330	<330			
Phenanthrene	85-01-8	NA	56,000	2,100	2.80E+06	1.60E+05	6.70E+06	1.60E+06	NA	31,000		<330	<330	<330	<330	<330	<330	<330	<330			
Pyrene	129-00-0	NA	4.80E+05	ID	1.0E+9 (D)	6.50E+08	6.70E+09	2.90E+07	NA	51,000		<330	<330	<330	<330	<330	<330	<330	630			
Volatile Organic Compounds (VOCs)																						
Xylenes (I)	1330-20-7	NA	5,600	980	6.3E+6 (C)	4.60E+07	2.90E+11	4.1E+8 (C)	1.50E+05	69		<150	<150	<150	<150	<150	<160	<150	69			
Remaining VOCs	Various	-	-	-	-	-	-	-	-	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL			

R 299.49 FOOTNOTES FOR GENERIC CLEANUP CRITERIA TABLES

Cleanup Criteria Requirements for Response Activity (formerly the Part 201 Generic Cleanup Criteria and Screening Levels)
(as last revised by EGLE on December 21, 2020)

- (A) Criterion is the state of Michigan drinking water standard established pursuant to Section 5 of 1976 PA 399, MCL 325.1005.
- (B) Background, as defined in R 299.1(b), may be substituted if higher than the calculated cleanup criterion. Background levels may be less than criteria for some inorganic compounds.
- (C) The criterion developed under R 299.20 to R 299.26 exceeds the chemical-specific soil saturation screening level (Csat). The person proposing or implementing response activity shall document whether additional response activity is required to control free-phase liquids or NAPL to protect against risks associated with free-phase liquids by using methods appropriate for the free-phase liquids present. Development of a site-specific Csat or methods presented in R 299.22, R 299.24(5), and R 299.26(8) may be conducted for the relevant exposure pathways.
- (D) Calculated criterion exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb).
- (E) Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA). A notice of aesthetic impact may be employed as an institutional control mechanism if groundwater concentrations exceed the aesthetic drinking water criterion, but do not exceed the applicable health-based drinking water value [as provided in the table in Footnote (E) in R 299.49].
- (F) Criterion is based on adverse impacts to plant life and phytotoxicity.
- (G) Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water. Where water hardness exceeds 400 mg CaCO₃/L, use 400 mg CaCO₃/L for the FCV calculation. The FCV formula provides values in units of ug/L or ppb. The generic GSI criterion is the lesser of the calculated FCV, the wildlife value (WV), and the surface water human non-drinking water value (HNDV). The soil GSI protection criteria for these hazardous substances are the greater of the 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote [See table in Footnote (G) in R 299.49].
- (H) Valence-specific chromium data (Cr III and Cr VI) shall be compared to the corresponding valence-specific cleanup criteria. If both Cr III and Cr VI are present in groundwater, the total concentration of both cannot exceed the drinking water criterion of 100 ug/L. If analytical data are provided for total chromium only, they shall be compared to the cleanup criteria for Cr VI. Cr III soil cleanup criterion for protection of drinking water can only be used at sites where groundwater is prevented from being used as a public water supply, currently and in the future, through an approved land or resource use restriction.
- (I) Hazardous substance may exhibit the characteristic of ignitability as defined in 40 C.F.R. §261.21 (revised as of July 1, 2001), which is adopted by reference in these rules.
- (J) Hazardous substance may be present in several isomer forms. Isomer-specific concentrations shall be added together for comparison to criteria.
- (K) Hazardous substance may be flammable or explosive, or both.
- (L) Criteria for lead are derived using a biologically based model, as allowed for under Section 20120a(9) of the NREPA, and are not calculated using the algorithms and assumptions specified in pathway-specific rules. The generic residential drinking water criterion of 4 ug/L is linked to the generic residential soil direct contact criterion of 400 mg/kg. A higher concentration in the drinking water, up to the state action level of 15 ug/L, may be allowed as a site-specific remedy and still allow for drinking water use, under Section 20120a(2) of the NREPA if soil concentrations are appropriately lower than 400 mg/kg. If a site-specific criterion is approved based on this subdivision, a notice shall be filed on the deed for all property where the groundwater concentrations will exceed 4 ug/L to provide notice of the potential for unacceptable risk if soil or groundwater concentrations increase. Acceptable concentrations of site-specific soil and drinking water concentrations are presented in the [See table in Footnote (L) in R 299.49].
- (M) Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.
- (N) The concentrations of all potential sources of nitrate-nitrogen (e.g., ammonia-N, nitrite-N, nitrate-N) in groundwater that is used as a source of drinking water shall not, when added together, exceed the nitrate drinking water criterion of 10,000 ug/L. Where leaching to groundwater is a relevant pathway, soil concentrations of all potential sources of nitrate-nitrogen shall not, when added together, exceed the nitrate drinking water protection criterion of 2.0E+5 ug/kg.
- (O) The concentrations of all potential sources of nitrate-nitrogen (e.g., ammonia-N, nitrite-N, nitrate-N) in groundwater that is used as a source of drinking water shall not, when added together, exceed the nitrate drinking water criterion of 10,000 ug/L. Where leaching to groundwater is a relevant pathway, soil concentrations of all potential sources of nitrate-nitrogen shall not, when added together, exceed the nitrate drinking water protection criterion of 2.0E+5 ug/kg.
- (P) The concentrations of all potential sources of nitrate-nitrogen (e.g., ammonia-N, nitrite-N, nitrate-N) in groundwater that is used as a source of drinking water shall not, when added together, exceed the nitrate drinking water criterion of 10,000 ug/L. Where leaching to groundwater is a relevant pathway, soil concentrations of all potential sources of nitrate-nitrogen shall not, when added together, exceed the nitrate drinking water protection criterion of 2.0E+5 ug/kg.
- (Q) Criteria for carcinogenic polycyclic aromatic hydrocarbons were developed using relative potential potencies to benzo[a]pyrene.
- (R) Hazardous substance may exhibit the characteristic of reactivity as defined in 40 C.F.R. §261.23 (revised as of July 1, 2001), which is adopted by reference in these rules.
- (S) Criterion defaults to the hazardous substance-specific water solubility limit.
- (T) Refer to the federal Toxic Substances Control Act (TSCA), 40 C.F.R. §761, subpart D and 40 C.F.R. §761, Subpart G, to determine the applicability of TSCA cleanup standards. Subpart D and subpart G of 40 C.F.R. §761 (July 1, 2001) are adopted by reference in these rules. Alternatives to compliance with the TSCA standards listed below are possible under 40 C.F.R. §761 Subpart D. New releases may be subject to the standards identified in 40 C.F.R. §761, Subpart G. Use Part 201 soil direct contact cleanup criteria in the following table if TSCA standards are not applicable. [See table in Footnote (T) in R 299.49].
- (U) Hazardous substance may exhibit the characteristic of corrosivity as defined in 40 C.F.R. §261.22 (revised as of July 1, 2001), which is adopted by reference in these rules.
- (V) Criterion is the aesthetic drinking water value as required by Section 20120(a)(5) of the NREPA. Concentrations up to 200 ug/L may be acceptable, and still allow for drinking water use, as part of a site-specific cleanup under Section 20120a(2) and 20120b of the NREPA.
- (W) Concentrations of trihalomethanes in groundwater shall be added together to determine compliance with the Michigan drinking water standard of 80 ug/L. Concentrations of trihalomethanes in soil shall be added together to determine compliance with the drinking water protection criterion of 1,600 ug/kg.
- (X) The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source. For a groundwater discharge to the Great Lakes and their connecting waters or discharge in close proximity to a water supply intake in inland surface waters, the generic GSI criterion shall be the surface water human drinking water value (HDV) listed in the [table in Footnote (X) in R 299.49], except for those HDV indicated with an asterisk. For HDV with an asterisk, the generic GSI criterion shall be the lowest of the HDV, the WV, and the calculated FCV. See formulas in [the table in Footnote (G) in R 299.49]. Soil protection criteria based on the HDV shall be as listed in the [table in Footnote (X) in R 299.49], except for those values with an asterisk. Soil GSI protection criteria based on the HDV shall be as listed in the [table in Footnote (X) in R 299.49], except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk shall be the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.
- (Y) Source size modifiers shown in the [See table in Footnote (Y) in R 299.49] shall be used to determine soil inhalation criteria for ambient air when the source size is not one-half acre. The modifier shall be multiplied by the generic soil inhalation criteria shown in the table of generic cleanup criteria to determine the applicable criterion. See Footnote (C) [in R 299.49].
- (Z) Mercury is typically measured as total mercury. The generic cleanup criteria, however, are based on data for different species of mercury. Specifically, data for elemental mercury, chemical abstract service (CAS) number 7439976, serve as the basis for the soil volatilization to indoor air criteria, groundwater volatilization to indoor air, and soil inhalation criteria. Data for methyl mercury, CAS number 22967926, serve as the basis for the GSI criterion; and data for mercuric chloride, CAS number 7487947, serve as the basis for the drinking water, groundwater contact, soil direct contact, and the groundwater protection criteria. Comparison to criteria shall be based on species-specific analytical data only if sufficient facility characterization has been conducted to rule out the presence of other species of mercury.
- (AA) Use 10,000 ug/L where groundwater enters a structure through the use of a water well, sump or other device. Use 28,000 ug/L for all other uses.
- (BB) The state drinking water standard for asbestos (fibers greater than 10 micrometers in length) is in units of a million fibers per liter of water (MFL). Soil concentrations of asbestos are determined by polarized light microscopy.
- (CC) Groundwater: The generic GSI criteria are based on the toxicity of unionized ammonia (NH₃); the criteria are 29 ug/L and 53 ug/L for cold water and warm water surface water, respectively. As a result, the GSI criterion shall be compared to the percent of the total ammonia concentration in the groundwater that will become NH₃ in the surface water. This percent NH₃ is a function of the pH and temperature of the receiving surface water and can be estimated using the [table in Footnote (CC) in R 299.49], taken from Emerson, et al., (Journal of the Fisheries Research Board of Canada, Volume 32(12):2382, 1975). The generic approach for estimating NH₃ assumes a default pH of 8 and default temperatures of 68 °F and 85 °F for cold water and warm water surface water, respectively. The resulting NH₃ is 3.8 percent and 7.2 percent for cold water and warm water, respectively. This default percentage shall be multiplied by the total ammonia-nitrogen (NH₃-N) concentration in the groundwater and the resulting NH₃ concentration compared to the applicable GSI criterion. As an alternative, the maximum pH and temperature data from the specific receiving surface water can be used to estimate, from the [table in Footnote (CC) in R 299.49], a lower percent unionized ammonia concentration for comparison to the generic GSI.
Soil: The generic soil GSI protection criteria for unionized ammonia are 580 ug/kg and 1,100 ug/kg for cold water and warm water surface water, respectively.
- (DD) Hazardous substance causes developmental effects. Residential direct contact criteria are protective of both prenatal and postnatal exposure. Nonresidential direct contact criteria are protective for a pregnant adult receptor.
- (EE) The [values listed in the table in Footnote (EE) in 299.49] are applicable generic GSI criteria as required by Section 20120e of the NREPA.
- (FF) The chloride GSI criterion shall be 125 mg/L when the discharge is to surface waters of the state designated as public water supply sources or 50 mg/L when the discharge is to the Great Lakes or connecting waters. Chloride GSI criteria shall not apply for surface waters of the state that are not designated as a public water supply source, however, the total dissolved solids criterion is applicable.
- (GG) Risk-based criteria are not available for methane due to insufficient toxicity data. An acceptable soil gas concentration (presented for both residential and nonresidential land uses) was derived utilizing 25 percent of the lower explosive level for methane. This equates to 1.25 percent or 8.4E+6 ug/m³.
- (HH) The residential criterion for sodium is 230,000 ug/L in accordance with the Sodium Advisory Council recommendation and revised Groundwater Discharge Standards.
- (II) The residential drinking water criterion for 1,4-dioxane is not calculated using the equations of R 299.10 or the toxicological and chemical-physical data as shown in Table 4 of R 299.50. The drinking water criterion is calculated using the United States Environmental Protection Agency's (U.S. EPA) "Toxicological Review of 1,4-Dioxane" EPA/635/R-11/003F, September 2013, and the department's residential exposure algorithms to protect both children and adults from unsafe levels of the chemical.
- ID Insufficient data to develop criterion.
- NA A criterion or value is not available or, in the case of background and CAS numbers, not applicable.
- NLL Hazardous substance is not likely to leach under most soil conditions.
- NLV Hazardous substance is not likely to volatilize under most conditions.
- ug/kg Micrograms per kilogram

ug/L Micrograms per liter

NS Not sampled

BDL Below Laboratory Method Detection Limits

* Concentration of arsenic detected in native soil sample(s) does not exceed the Statewide Default Background Level.

BOLD Concentration of lead detected exceeds 75,000 µg/kg, a threshold above which EGLE RRD recommends fine and coarse fraction lead analysis for the evaluation of dermal contact/ingestion and particulate soil inhalation exposure pathways.

BOLD Exceeds highlighted criteria.

Appendix A

Legal Description

Legal Description: 220 N. Park Street, Ypsilanti, Michigan (Parcel ID No. 11-11-09-111-004)

11E-29A-1 LOT 60 GILBERT'S ADDITION, EXC BEG AT NE COR LOT 60, TH S 00-40-00 W 175.00 FT, TH S 89-50-50 W 147.63 FT, TH N 46-18-30 W 83.72 FT, TH S 89-50-50 W 82.16 FT, TH N 00-40-00 E 117.00 FT, TH N 89-50-50 E 291.00 FT TO THE POB, ALSO BEG AT ELY ROW LN OF PARK ST AT SW COR LOT 60 GILBERT'S ADDITION TO CITY OF YPSI, TH 669.09 FT ALNG ARC OF CURV-LFT-RAD 1945.58 FT – CH S 52-50-00 E 665.80 FT, TH S 00-2-30 W 45.57 FT, TH 660.01 FT ALNG ARC OF CURV-RT-RAD 1986.74 FT – CH N 53-51-20 W 656.98 FT, TH NLY ALNG ROW 60.30 FT TO THE POB. PT OF NE ¼ SEC 9, T3S-R7E. 0.63 AC, PT OF LOT 60 GILBERT'S ADDITION. 221 N. GROVE*, COMBINED ON 7/28/2014 FROM 11-11-09-111-001, 11-11-09-111-003

Appendix B

AKT Peerless' September 2022 Phase I ESA

PHASE I ENVIRONMENTAL SITE ASSESSMENT

220 N. Park Street, Ypsilanti, Michigan

PREPARED FOR Renovare Ypsilanti Homes, LLC
42 Watson Street, Suite B
Detroit, Michigan 48201

and

City of Ypsilanti
1 S. Huron Street
Ypsilanti, Michigan 48197

FUNDED BY Downriver Community Conference Brownfield Consortium
15100 Northline Road
Southgate, Michigan 48195
USEPA Cooperative Agreement No. BF-00E02888

PROJECT # 10627F2-1-17

DATE September 13, 2022

EXECUTIVE SUMMARY I

1.0 INTRODUCTION.....1

 1.1 PURPOSE 1

 1.2 SCOPE OF SERVICES 2

 1.3 LIMITING CONDITIONS AND EXCEPTIONS 2

 1.4 SPECIAL TERMS AND CONDITIONS 2

 1.5 RELIANCE..... 2

2.0 USER AND/OR CLIENT PROVIDED INFORMATION.....3

 2.1 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS 3

 2.2 SPECIALIZED KNOWLEDGE OR EXPERIENCE OF THE USER 3

 2.3 ACTUAL KNOWLEDGE OF THE USER 4

 2.4 VALUE REDUCTION DUE TO CONTAMINATION 4

 2.5 COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION..... 4

 2.6 PRESENCE OR LIKELY PRESENCE OF CONTAMINATION 4

 2.7 REASON FOR PERFORMING THIS PHASE I ESA..... 4

3.0 SUBJECT PROPERTY DESCRIPTION5

 3.1 LOCATION AND LEGAL DESCRIPTION 5

 3.2 SUBJECT PROPERTY AND VICINITY CHARACTERISTICS..... 5

 3.3 DESCRIPTION OF STRUCTURES AND OTHER IMPROVEMENTS 5

 3.4 CURRENT USE OF THE SUBJECT PROPERTY 5

 3.5 UTILITIES AND MUNICIPAL SERVICES 5

 3.6 CURRENT USES OF THE ADJOINING PROPERTIES 6

4.0 RECORDS REVIEW.....7

 4.1 PHYSICAL SETTINGS 7

 4.2 STANDARD ENVIRONMENTAL RECORD RESOURCES..... 9

 4.2.1 Subject Property Listings 10

 4.2.2 Adjoining Properties..... 10

 4.2.3 Nearby Sites..... 12

 4.2.4 Unplottable Sites 13

 4.3 REGULATORY AGENCY FILE AND RECORDS REVIEW 13

 4.3.1 Michigan Department of Licensing and Regulatory Affairs (LARA) 13

 4.3.2 EGLE Remediation and Redevelopment Division (RRD) 14

 4.3.3 EGLE Materials Management Division (MMD)..... 16

 4.3.4 EGLE Drinking Water and Environmental Health Division (DWEHD)..... 18

Table of Contents (continued)



- 4.3.5 EGLE Oil, Gas, and Minerals Division (OGMD) 18
- 4.3.6 EGLE Air Quality Division (AQD) 18
- 4.4 ADDITIONAL ENVIRONMENTAL RECORD SOURCES 18
 - 4.4.1 Local Health Department 18
 - 4.4.2 Local Fire Department 18
 - 4.4.3 Building Department Records 19
 - 4.4.4 Assessing Department Records 19
 - 4.4.5 Previous Environmental Reports 19
- 4.5 HISTORICAL RESEARCH 21
 - 4.5.1 Aerial Photographs 22
 - 4.5.2 Fire Insurance Maps 23
 - 4.5.3 City Directories 24
 - 4.5.4 Topographic Maps 25
 - 4.5.5 Land Title Records 25
 - 4.5.6 Other Historical Resources 25
- 5.0 INTERVIEWS 25**
 - 5.1 INTERVIEW WITH SUBJECT PROPERTY OWNER 25
 - 5.2 INTERVIEW WITH KEY SITE MANAGER 25
 - 5.3 INTERVIEW WITH SUBJECT PROPERTY OCCUPANTS AND OPERATORS 25
 - 5.4 INTERVIEW(S) WITH OTHERS 25
- 6.0 SUBJECT PROPERTY RECONNAISSANCE 26**
 - 6.1 METHODOLOGY AND LIMITING CONDITIONS 26
 - 6.2 GENERAL SUBJECT PROPERTY SETTING AND OPERATIONS 26
 - 6.3 OBSERVATIONS 26
 - 6.3.1 Hazardous Substances and Petroleum Products 26
 - 6.3.2 Storage Tanks 26
 - 6.3.3 Strong, Pungent, or Noxious Odors 26
 - 6.3.4 Unidentified Substance Containers 26
 - 6.3.5 Potential PCB Containing Items 26
 - 6.3.6 Interior Staining/Corrosion 27
 - 6.3.7 Drains and Sumps 27
 - 6.3.8 Water/Wastewater Discharges 27
 - 6.3.9 Standing Water, Pools, Waste Pits, Ponds, and Lagoons 27
 - 6.3.10 Solid Waste Dumping/Landfills 27
 - 6.3.11 Stained Soil, Stressed Vegetation, Stained Pavement 28
 - 6.3.12 Well and Septic Systems 28
 - 6.3.13 Other Observations 28
 - 6.3.14 Adjoining Properties 28
 - 6.4 NON-ASTM STANDARD PRACTICE E 1527 SCOPE CONSIDERATIONS 28

7.0 FINDINGS, OPINIONS, AND CONCLUSIONS28

7.1 RECOGNIZED ENVIRONMENTAL CONDITIONS 28

7.2 CONTROLLED RECOGNIZED ENVIRONMENTAL CONDITIONS 29

7.3 HISTORICAL RECOGNIZED ENVIRONMENTAL CONDITIONS 29

7.4 DE MINIMIS CONDITIONS 30

7.5 SIGNIFICANT DATA GAPS..... 30

7.6 OTHER NOTABLE ENVIRONMENTAL CONSIDERATIONS 30

8.0 DEVIATIONS30

9.0 PROJECT RESOURCES AND REFERENCES31

10.0 CONTINUED VIABILITY EVALUATION.....31

11.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS32

QUALIFICATIONS

FIGURES

Figure 1 Topographic Location Map

Figure 2 Subject Property Map

Figure 3 Subject Property Location Map

APPENDICES

Appendix A..... Property Description and Parcel Map

Appendix B..... Reconnaissance Photographs

Appendix C..... Standard Environmental Record Database Report

Appendix D..... Aerial Photograph Documentation

Appendix E Fire Insurance Map Documentation

Appendix F Other Relevant Documentation

Appendix G..... Previous Environmental Reports

Appendix H..... Regulatory Agency File Information

PHASE I ENVIRONMENTAL SITE ASSESSMENT

220 N. Park Street, Ypsilanti, Michigan
 AKT Peerless Project No. 10627F2-1-17

Executive Summary

On behalf of Downriver Community Conference Brownfield Consortium (DCCBC; Client), City of Ypsilanti (current subject property owner), and Renovare Ypsilanti Homes, LLC (prospective subject property owner and operator), AKT Peerless conducted a Phase I Environmental Site Assessment (ESA) of the subject property as described below in accordance with United States Environmental Protection Agency (USEPA) Standards and Practices for All Appropriate Inquires [(AAI), 40 Code of Federal Regulations (CFR) Part 312] and ASTM International Standard Practice E 1527-21 (ASTM Standard Practice E 1527). This Phase I ESA also satisfies the good commercial and customary practices outlined in ASTM Standard Practice E 1527-13.

Subject Property Description

Address	220 N. Park Street, Ypsilanti, Washtenaw County, Michigan
Land Area	4.46 acres
Parcel ID Number	11-11-09-111-004
Number of Building(s)	Zero
Date(s) of Construction	Not applicable
Building Square Footage	Not applicable
Current Use	Undeveloped, vegetated land (i.e., maintained lawn, trees)
Current Occupants	Unoccupied
Past Use	Residential (in connection with an adjoining property), municipal/recreational
Adjoining Property Uses	North: Single- and multi-family residential East: Single-family residential; undeveloped land/remnant paved parking lot Southeast: Paved parking lot South: Industrial, light industrial West: Single-family residential; undeveloped land/remnant paved parking lot Northwest: Light industrial
Inferred Groundwater Flow Direction	Southwest
Approximate Groundwater Depth	Not identified

Recognized Environmental Conditions (RECs)

This assessment has revealed no evidence of known RECs in connection with the subject property, except for the following:

REC 1 - In September 2021, AKT Peerless completed a Phase II ESA of the subject property to evaluate RECs (i.e., one on-site REC and four off-site RECs) previously identified in AKT Peerless' October 2015 Phase I ESA of the subject property. Soil contamination, including arsenic and selenium comingled with low-level polynuclear aromatic hydrocarbons (PNAs), were identified in the soil sample collected to evaluate the on-site REC (i.e., surficial and shallow subsurface fill material of unknown origin) on the south-central portion of the subject property. (Contamination associated with the off-site RECs was not identified.) The concentrations of arsenic and selenium exceed Part 201 Generic Residential Cleanup Criteria (RCC), thus qualifying the subject property as a "facility," as defined in Part 201 of the Natural Resources and Environmental Protection Act, Michigan Public Act 451 of 1994, as amended (NREPA). The "facility" status of the subject property therefore represents an REC.

In AKT Peerless' opinion, the RECs previously identified in AKT Peerless' October 2015 Phase I ESA of the subject property have been adequately evaluated and no further investigation and/or assessment is warranted at this time.

Based on the results of AKT Peerless' September 2021 Phase II ESA, AKT Peerless recommends any future owner(s)/operator(s) prepare a Baseline Environmental Assessment (BEA). Section 26(1)(c) of Part 201 provides certain liability protections to a person who becomes an owner or operator of a "facility" on or after June 5, 1995, if they comply with both of the following, or unless other defenses apply: a BEA is conducted prior to or within 45 days after the earlier of the date of purchase, occupancy, or foreclosure, and the owner or operator discloses the results of the BEA to Michigan Department of Environment, Great Lakes, and Energy (EGLE) Remediation and Redevelopment Division (RRD) and subsequent purchaser or transferee.

Since the property meets the definition of a "facility," the property owner is also required to comply with Due Care obligations. Due Care obligations include:

- Undertaking measures to prevent exacerbation of existing contamination.
- Exercising Due Care by undertaking Response Activities to mitigate unacceptable exposure to hazardous substances, mitigate fire and explosion hazards due to hazardous substances, and allow for the intended use of the subject property in a manner that protects health and safety.
- Taking reasonable precautions against the reasonably foreseeable acts or omissions of a third party and the consequences that could result from those acts or omissions.
- Providing notifications to EGLE and others in regard to mitigating fire and explosions hazards, discarded or abandoned containers, contamination migrating beyond property boundaries, as applicable.
- Comply with any land use or resource use restrictions established or relied on in connection with any Response Activities at the "facility."
- Not impede the effectiveness or integrity of any land use or resource use restrictions employed at the "facility" in connection with Response Activities.

A future owner/operator may be required to conduct additional subsurface investigation activities at the subject property to further evaluate potential exposure pathways in connection with known contamination to comply with Due Care obligations.

Controlled Recognized Environmental Conditions (CRECs)

This assessment has revealed no evidence of known CRECs in connection with the subject property.

Historical Recognized Environmental Conditions (HRECs)

This assessment has revealed no evidence of known HRECs in connection with the subject property.

Significant Data Gaps (SDG)

AKT Peerless did not identify or encounter instances of significant data gaps during this Phase I ESA.

The Executive Summary above is an overview of the opinions and conclusions of this Phase I ESA and shall not be considered apart from the entire report, which contains the rationale and qualifications used by AKT Peerless in making the opinions and conclusions presented herein. Furthermore, non-ASTM Standard Practice E 1527 scope considerations, if any, are reported in Section 6.4 and other notable environmental considerations, if any, are reported in Section 7.5. These conditions are not included in this Executive Summary.

Continued Viability Evaluation

Critical Component	Completion Date
State and Federal Database Report	May 10, 2022
Government Records Review	September 9, 2022
Interviews	August 31, 2022
Site Inspection	May 10, 2022
Environmental Professional Declaration	September 13, 2022

1.0 Introduction

On behalf of Downriver Community Conference Brownfield Consortium (DCCBC; Client), City of Ypsilanti (current subject property owner), and Renovare Ypsilanti Homes, LLC (prospective subject property owner and operator), AKT Peerless conducted a Phase I Environmental Site Assessment (ESA) of the property located at 220 N. Park Street in Ypsilanti, Washtenaw County, Michigan (the subject property). This Phase I ESA was conducted in accordance with: (1) United States Environmental Protection Agency (USEPA) Standards and Practices for All Appropriate Inquiries [(AAI), 40 Code of Federal Regulations (CFR) Part 312] and (2) guidelines established by ASTM International in the *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process / Designation E 1527-21* (ASTM Standard Practice E 1527). This Phase I ESA also satisfies the good commercial and customary practices outlined in ASTM Standard Practice E 1527-13.

Nothing in this report constitutes a legal opinion or legal advice. AKT Peerless has not made an independent determination as to whether the Client satisfies *User* obligations to establish a Landowner Liability Protection (LLP) defense under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980. In accordance with ASTM Standard Practice E 1527, a *User* is the party seeking to use ASTM Standard Practice E 1527 to complete an environmental site assessment of the subject property. A *User* may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager. Furthermore, a *User* seeking to establish an LLP defense under CERCLA, and USEPA Brownfield Assessment and Characterization grantees, have specific obligations for completing a successful application of this practice. AKT Peerless' scope of work does not include an evaluation or completion of these specific user obligations as described in Section 6 of ASTM Standard Practice E 1527, unless otherwise noted.

1.1 Purpose

The purpose of this Phase I ESA was to evaluate the current and historical conditions of the subject property in an effort to identify *recognized environmental conditions* (RECs)¹, *controlled recognized environmental conditions* (CRECs)², *historical recognized environmental conditions* (HRECs)³, and *de minimis conditions*⁴ in connection with the subject property. Moreover, this practice may permit certain

¹ ASTM Standard Practice E 1527-21 defines the term REC 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.

² ASTM Standard Practice E 1527-21 defines the term CREC as a REC affecting the subject property resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority or authorities (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations or other property use limitations).

³ ASTM Standard Practice E 1527-21 defines the term HREC 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). A HREC is not a REC.

⁴ ASTM Standard Practice E 1527-21 defines the term de minimis condition as a condition related to a *release* that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement

users of this Phase I ESA to satisfy environmental due diligence requirements to qualify for the bona fide prospective purchaser, contiguous landowner, or innocent landowner limitations under CERCLA, the Superfund Amendments and Reauthorization Act (SARA) of 1986, and the Small Business Liability and Brownfields Revitalization Act (Brownfields Amendments) of 2002. This Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for environmental conditions in connection with the subject property.

1.2 Scope of Services

AKT Peerless' scope-of-services is based on its work orders PF-27560.1, dated May 6, 2021, and PF-31076, dated September 9, 2022, and the terms and conditions of those agreements. This Phase I ESA included the following:

- An inquiry of environmental conditions by an Environmental Professional.
- A review of specialized knowledge reported by the Client.
- A review of reasonably ascertainable and practically reviewable relevant public and historical records, including those maintained by federal, state, tribal, and local government agencies.
- Interviews with relevant regulatory officials and personnel associated or knowledgeable with the subject property, including as appropriate past and present owners, or neighbors if the subject property is abandoned.
- A reconnaissance of the subject property. The adjoining properties were observed from the subject property and from readily accessible public rights-of-way.

1.3 Limiting Conditions and Exceptions

During the course of a Phase I ESA, limiting conditions, data failures, or data gaps, may prevent adherence to certain aspects of ASTM Standard Practice E 1527. In such cases, the limiting factors are discussed in the appropriate sections of this report.

Should additional information become available to the Client that differs significantly from our understanding of conditions presented in this report, AKT Peerless requests that such information be forwarded immediately to our attention, so that we may reassess the conclusions provided herein and amend this project's scope of services as necessary and appropriate.

1.4 Special Terms and Conditions

To the best of AKT Peerless' knowledge, no special terms or conditions, or Client-imposed constraints, apply to the preparation of this Phase I ESA.

1.5 Reliance

AKT Peerless performed this Phase I ESA for the benefit of its Client, DCCBC, City of Ypsilanti, and Renovare Ypsilanti Homes, LLC. AKT Peerless acknowledges that these parties may rely on the contents and conclusions presented in this report. Unless stated otherwise in writing, AKT Peerless makes no other warranty, representation, or extension of reliance upon the findings of this report to any other entity or third party. The information and opinions presented in this report are for the exclusive use of

action if brought to the attention of appropriate governmental agencies. A condition determined to be a de minimis condition is not a REC nor a CREC.

the Client. No distribution to or reliance by other parties may occur without the express written permission of the Client or AKT Peerless. AKT Peerless will not distribute this report without written consent from the Client, or as required by law or by a Court order.

2.0 User and/or Client Provided Information

In order to qualify for one of the LLPs offered by the Small Business Liability Relief and the Brownfields Amendments, a *User* must conduct certain inquiries as described in 40 CFR 312. If the Client intends to use ASTM Standard Practice E 1527 to establish an LLP defense under CERCLA, then AAI requires that certain tasks be performed by – or on behalf of – that party. As appropriate, these inquiries must also be conducted by USEPA Brownfield Assessment and Characterization grantees. While such information is not required to be provided to the Environmental Professional, AKT Peerless requests this information from the Client in the form of a Questionnaire, Document Request Form, and Interviews as such information can assist the Environmental Professional in identifying environmental conditions.

AKT Peerless provided a Questionnaire and Document Request Form to Ms. Shannon Morgan, Manager of Renovare Ypsilanti Homes, LLC. As appropriate, AKT Peerless conducted follow-up interviews with the prospective subject property owner. The following subsections summarize the information and responses provided by the prospective subject property owner. The completed Questionnaire is provided in **Appendix F**.

2.1 Environmental Liens or Activity and Use Limitations

ASTM Standard Practice E 1527 Section 6.2 and AAI (40 CFR 312.20, 25, and 26) require that Users search recorded title and judicial records for registered Environmental Liens or/and Activity and Use Limitations (AULs). The User may rely on (1) transaction-related title insurance documentation (e.g., preliminary title reports and title commitments) or (2) title search information reports (e.g., conditions of title, title abstracts, and AUL/Environmental Lien reports). The results of the User's search should be communicated to the Environmental Professional. This search is in addition to the review of environmental liens and AULs registries (if any) conducted by the Environmental Professional.

The prospective subject property owner did not provide title insurance documentation or title search information, and the prospective subject property owner did not report: (1) environmental cleanup liens against the subject property that are filed or recorded under federal, tribal, state, or local law; (2) AULs, such as engineering controls, land use restrictions or institutional controls, that are in place at the subject property and/or have been filed or recorded in a registry under federal, tribal, state, or local law; or (3) recorded land title or judicial records.

2.2 Specialized Knowledge or Experience of the User

ASTM Standard Practice E 1527 Section 6.3 and AAI (40 CFR 312.28) require that the User take into account their specialized knowledge to identify conditions indicative of releases or threatened releases associated with the subject property, and suggests this information be communicated to the Environmental Professional before the site reconnaissance.

The prospective subject property owner did not report specialized knowledge or experience regarding the environmental condition of the subject property, except as conveyed in the following reports, which document previous environmental assessments of the subject property:

- Phase I ESA, 220 N. Park Street, prepared in October 2015 by AKT Peerless on behalf of City of Ypsilanti; and
- Phase II ESA, 220 N. Park Street, prepared in September 2021 by AKT Peerless on behalf of DCCBC and City of Ypsilanti.

Refer to Section 4.4.5 for a summary and discussion of these environmental assessments.

2.3 Actual Knowledge of the User

ASTM Standard Practice E 1527 Section 6.4 suggests that the User communicate actual knowledge of any environmental liens or AULs associated with the subject property to the Environmental Professional, and suggests this information be communicated to the Environmental Professional before the site reconnaissance.

The prospective subject property owner did not report actual knowledge of environmental liens or AULs associated with the subject property.

2.4 Value Reduction Due to Contamination

For transactions involving the purchase of commercial real estate, ASTM Standard Practice E 1527 Section 6.5 and AAI (40 CFR 312.29) require the User to consider the relationship of the purchase price to the fair market value of the subject property as an indicator of potential contamination and make a written record of that explanation.

The prospective subject property owner did not report knowledge of, or reason to anticipate, a reduction in the value of the subject property for environmental issues.

2.5 Commonly Known or Reasonably Ascertainable Information

ASTM Standard Practice E 1527 Section 6.6 and AAI (40 CFR 312.30) require the User to take into account commonly known or reasonably ascertainable information within the local community about the subject property.

The prospective subject property owner did not report such commonly known or reasonably ascertainable information, except as described in Section 2.2.

2.6 Presence or Likely Presence of Contamination

ASTM Standard Practice E 1527 Section 6.7 and AAI (40 CFR 312.31) require the User to consider the degree of obviousness of the presence or likely presence of contamination at the subject property, and the ability to detect the contamination by appropriate investigation.

The prospective subject property owner did not report on the degree of obviousness of the presence or likely presence of contamination at the subject property or the ability to detect the contamination by appropriate investigations, except as described in Section 2.2.

2.7 Reason for Performing this Phase I ESA

ASTM Standard Practice E 1527 requires that the User provide the Environmental Professional with the reason for performing the Phase I ESA.

The prospective subject property owner reported that this Phase I ESA was conducted as part of environmental due diligence related to a potential purchase of the subject property.

3.0 Subject Property Description

3.1 Location and Legal Description

The subject property is located in the northeast ¼ of Section 9 (Township 3 South, Range 7 East), Ypsilanti, Washtenaw County, Michigan. The subject property is bordered to the west by N. Park Street, to the north by High Street, to the east by N. Grove Street, and to the south by a Norfolk Southern Railway railroad. See the following table for additional subject property details:

Subject Property Identifiers

Address	Tax Identification Number	Owner of Record	Approximate Acreage
220 N. Park Street	11-11-09-111-004	City of Ypsilanti	4.46 acres

The subject property may have been historically associated with the addresses 227 N. Grove Street (i.e., at a time when the subject property may have been used in conjunction with the Gilbert Community House at that address) and 221 N. Grove Street (i.e., the original address of the Boys & Girls Club building, which was constructed in the 1970s and demolished in 2016; see Section 4.5).

Refer to Figure 1, Topographic Location Map; Figure 2, Subject Property Map; and Figure 3, Subject Property Location Map. The legal description of the subject property is presented in **Appendix A**. Photographs taken during AKT Peerless’ subject property reconnaissance are provided in **Appendix B**.

3.2 Subject Property and Vicinity Characteristics

The subject property is currently zoned Core Neighborhood Mid (CN-Mid) and is located in an area of Ypsilanti that is characterized by residential, commercial, and light industrial properties, surface roadways, municipal sanitary sewer and water services, and electric and natural gas utilities.

3.3 Description of Structures and Other Improvements

The subject property consists of undeveloped land (i.e., maintained lawn, trees) and does not contain structures or other significant improvements.

3.4 Current Use of the Subject Property

The subject property currently consists of undeveloped, vegetated land (i.e., maintained lawn, trees) and is not used for a significant or obvious purpose.

3.5 Utilities and Municipal Services

AKT Peerless identified the type and supplier of utilities provided to the subject property. These services are described in the following table:

Subject Property Utility Data

Utility / Service	Type	Utility Company or Municipality	Comments/Historical Services
Heat	Natural Gas	DTE Energy	Natural gas service is available to the area of the subject property.
Potable water	Municipal	Ypsilanti Community Utilities Authority (YCUA)	Municipal drinking water service has been available to the subject property since at least 1916.
Electricity	Electric lines	DTE Energy	Electric service is available to the subject property.
Sewage disposal	Municipal	YCUA	Municipal sanitary sewer service is currently available to the area of the subject property.
Storm water	Municipal	City of Ypsilanti	Stormwater utilities are available to the area of the subject property.

AKT Peerless’ review of readily available standard and other historical sources provided only limited information regarding potable water and sanitary sewer services or systems utilized by the former structure present on the subject property between the early 1970s and 2016. As specific connection dates were not identified, the former structure present on the subject property might have utilized on-site potable water well(s) and/or private septic system(s) prior to connection to municipal services. However, it is likely that these features, if any, would have been identified and removed at the time of connection to municipal services.

AKT Peerless’ review of readily available standard and other historical sources also provided only limited information regarding heating fuel source(s) utilized by the former structure present on the subject property between the early 1970s and 2016. A specific connection date to natural gas service was not identified during this Phase I ESA. The potential for the past use of fuel oil underground storage tanks (USTs) on the subject property was therefore considered. However, based on: (1) review of available information, (2) observations during the subject property reconnaissance, and (3) lack of documentation indicating the presence of heating oil USTs on the subject property, it is AKT Peerless’ opinion that, although this missing information represents a data failure, all appropriate inquiry has been performed to reduce uncertainty regarding environmental concerns associated with the potential use of heating oil USTs. Therefore, no further investigation of potential heating oil USTs is warranted at this time.

3.6 Current Uses of the Adjoining Properties

The following table describes the current uses and/or occupants of the adjoining properties, as identified during this Phase I ESA:

Adjoining Property Data

Direction	Address	Current Use / Occupant
North	302 N. Park Street	Single-family residential / Not identified
	313 High Street	Single-family residential / Not identified
	315 High Street	Single-family residential / Not identified
	227 N. Grove Street	Multi-family residential (Gilbert Mansion) / Not identified
East	216 N. Grove Street	Single-family residential / Not identified
	410 Locust Street	Single-family residential / Not identified
	214 N. Grove Street	Single-family residential / Not identified
	212 N. Grove Street	Single-family residential / Not identified
	208 N. Grove Street	Single-family residential / Not identified
	206 N. Grove Street	Undeveloped land, remnant paved parking lot / Unoccupied
Southeast	106 N. Grove Street	Paved parking lot / Marsh Plating Corp.
South	103 N. Grove Street	Light industrial / Marsh Plating Corp.
	204 N. Park Street	Light industrial / Not identified
West	209 N. Park Street	Single-family residential / Not identified
	213 N. Park Street	Single-family residential / Not identified
	223 N. Park Street	Undeveloped land, remnant paved parking lot / Unoccupied
Northwest	301 N. Park Street	Light industrial / Great Lakes Design, LLC

4.0 Records Review

The objective of the records review is to evaluate reasonably ascertainable databases, historical records, and physical setting records to help identify RECs at the subject property and, to the extent identifiable, at surrounding properties.

4.1 Physical Settings

AKT Peerless reviewed various available physical setting resources pertaining to the geologic, hydrogeologic, hydrologic, and topographic characteristics that may affect potential contaminant migration to the subject property, or within or from the subject property. The results of AKT Peerless' review are presented in the following table:

Physical Setting Data

General Topography and Hydrogeology		
Physical Setting Information		Data Resources
Subject Property Elevation	737 feet above the National Geodetic Vertical Datum	United States Geological Survey (USGS) Topographic Map of the Ypsilanti, East, Michigan Quadrangle (1993), and third-party environmental database report
Topographic Gradient	Slopes to the southwest	
Closest Surface Water	Huron River, located approximately 930 feet west of the subject property	
Groundwater Depth	No known data points	USGS National Water Dashboard Online
General Soil and Geology		
Bedrock	Antrim Shale of an unassigned group, which is included in the Chautauquan series within the Devonian System of the Paleozoic Era.	Michigan Department of Natural Resources (MDNR) Geological Survey Division's publication, <i>Bedrock Geology of Southern Michigan</i> (1987)
Quaternary Soil Description	Lacustrine sand and gravel, described as pale brown to pale reddish brown, fine to medium sand, commonly including beds or lenses of small gravel, chiefly quartz sand but gravel is rich in igneous and metamorphic rocks. These soils occur chiefly as former beach and near-offshore littoral deposits of glacial Great Lakes and may include intercalated lacustrine clay. Locally veneered by discontinuous sheets or small dunes of eolian sand and may include areas of organic soils. In the eastern part of the northern peninsula of Michigan these sands commonly grade upstream (north- or northwestward) into outwash deposits. Soil thickness ranges from three to 100 feet. Typically, lacustrine sand and gravel are associated with moderate hydraulic permeability and may allow the movement of contaminants through groundwater.	MDNR Geological Survey Division's publication, <i>Quaternary Geology of Southern Michigan</i> (1982)

General Topography and Hydrogeology		
County Soil Survey Description	Spinks-Boyer-Wasepi association, described as “nearly level to moderately steep, well drained and somewhat poorly drained soils that have a coarse textured or moderately coarse textured subsoil and coarse textured underlying material; on outwash plains, terraces, lake plains, and deltas.” Photo Sheet 34 of the soil survey depicts the subject property within an area described as “Boyer loamy sand.”	United States Department of Agriculture (USDA) Soil Conservation Service’s (SCS’s) publication, <i>Soil Survey of Washtenaw County, Michigan</i> (1977)
Site-Specific Geology and Hydrogeology		
Soil and bedrock characteristics	Subsurface soils at the subject property typically consist of alternating layers of sand and clay from ground surface to 32 feet below ground surface, the maximum depth explored.	Previous environmental assessment (see Section 4.4.5)
Groundwater characteristics	Groundwater was not encountered at the subject property within 32 feet of ground surface during a previous environmental assessment.	Previous environmental assessment (see Section 4.4.5)

Based on the information presented above, AKT Peerless infers that groundwater in the vicinity of the subject property flows toward the southwest, with potential influence from the Huron River; however, local manmade structures (e.g., buildings, roads, sewer systems, and utility service lines) may influence both surface water and groundwater flow. AKT Peerless was unable to precisely document the groundwater flow direction beneath the subject property. To determine the site-specific groundwater flow direction, additional subsurface information would be necessary.

AKT Peerless did not identify water supply wells or monitoring wells at the subject property. Groundwater from the area of the subject property does not serve as the primary drinking water source for properties in Ypsilanti, which obtains its municipal water from the Detroit River by way of the Great Lakes Water Authority (GLWA).

4.2 Standard Environmental Record Resources

AKT Peerless retained a third-party vendor to provide current environmental database information compiled by a variety of federal and state regulatory agencies. The purpose of obtaining these data was to evaluate potential environmental releases associated with the subject property, adjoining properties, and nearby sites that are: (1) identified on target lists and (2) within varying distances of up to one mile from the subject property. Refer to the database report included as **Appendix C** for information regarding database descriptions, search radii, and most recent dates the database information was updated by the vendor.

4.2.1 Subject Property Listings

The database report does not identify the subject property on the referenced databases.

4.2.2 Adjoining Properties

The database report does not identify the adjoining properties on the referenced databases, except for the following:

Detail Table for Eastern Adjoining Property (206 N. Grove Street)

Address	Name	Distance/Direction	Known/Inferred Groundwater Flow Direction:
206 N. Grove Street	206 N. Grove; Abandoned Grove Street Site; Ypsilanti Econ. Devel. Authority; Ypsilanti Economic Development Corporation (sic)	Adjoining/east	Inferred southwest
Databases			
<p><u>UST</u> Ypsilanti Economic Development Corporation (sic) is listed on the UST database. One regulated UST (UST-1) is associated with this site. UST-1 was a 500-gallon used oil UST installed in January 1986 and removed from the ground in August 2001.</p> <p><u>Brownfield UST</u> 206 N. Grove is listed on the Brownfield UST database. No further information was provided.</p> <p><u>Baseline Environmental Assessment (BEA)</u> 206 N. Grove is listed on the BEA database in connection with BEA No. 200400548JK.</p> <p><u>Delisted State Hazardous Waste Site (SHWS)</u> 206 N. Grove is listed on the Delisted SHWS database in connection with Part 201 of the Natural Resources and Environmental Protection Act, Michigan Public Act 451 of 1994, as amended (NREPA). No further information was provided.</p> <p><u>Resource Conservation and Recovery Act (RCRA) Non-Generator (Non-Gen)</u> Ypsilanti Econ. Devel. Authority identified as a RCRA Non-Gen in December 2002. This owner/operator previously identified as a Small Quantity Generator (SQG) in August 2001. No records of hazardous waste violations were reported.</p> <p><u>Waste Data System (WASTE, or WDS)</u> Abandoned Grove Street Site is listed on the WDS database. No further information was provided.</p> <p>Further information regarding these database listings is presented in Section 4.3.</p>			

Detail Table for Southern Adjoining Property (103 N. Grove Street)

Address	Name	Distance/Direction	Known/Inferred Groundwater Flow Direction:
103 N. Grove Street	Marsh Plating Corp.; March Plating Ypsilanti	Adjoining/south	Inferred southwest
Databases			
<p><u>UST</u> Marsh Plating Corp. is listed on the UST database. Three regulated USTs are associated with this site. Tank 1 was a 12,000-gallon diesel UST installed in May 1983 and removed from the ground in June 1996. Tank 2 was a 2,000-gallon gasoline UST installed in May 1965 and removed from the ground in October 1989. Tank 3 was a 2,500-gallon used oil UST installed in May 1978 and removed from the ground in October 1989.</p> <p><u>Aboveground Storage Tank (AST)</u> Marsh Plating Corp. is listed on the AST database. One 1,000-gallon AST owned by AmeriGas was installed at the site in May 1990 and is currently in use.</p> <p><u>Delisted Tank</u> Marsh Plating Corp. is listed on the Delisted Tank database in connection with one or more ASTs. No further information was provided.</p> <p><u>RCRA Treatment, Storage, and Disposal (TSD) and RCRA Large Quantity Generator (LQG)</u> Marsh Plating Corp. is listed on the RCRA TSD database in connection with the generation of wastewater treatment sludges from electroplating operations. Marsh Plating Corp. identified as an LQG in July 1980 and during most years between February 1990 and January 2022. On-site compliance evaluation inspections were conducted in May 1986 (followed by a scheduled inspection in September 1986), September 1997 (followed by a follow-up inspection in August 1998), March 2001, June 2008, November 2012, November 2016, and May 2021. Multiple violations were identified in connection with the May 1986, September 1997, March 2001, June 2008, November 2012, November 2016, and May 2021 inspections. Generally, the violations appear to have been returned to compliance within one year of identification.</p> <p><u>WASTE, or WDS</u> Marsh Plating Corp. is listed on the WDS. No further information was provided.</p> <p><u>Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) / CERCLIS No Further Remedial Action Planned (NFRAP) / Superfund Enterprise Management System (SEMS) Archive</u> Marsh Plating Corp. is listed on the CERCLIS, CERCLIS NFRAP, and SEMS Archive databases. Discovery was completed in March 1985. A Preliminary Assessment (PA) was completed in July 1985 and identified the site as "low priority." A Site Inspection (SI) was completed in September 1986 and resulted in NFRAP site status. The site was archived in September 1993 and is not on the National Priorities List (NPL).</p> <p><u>Delisted Contamination</u> Marsh Plating Ypsilanti is listed on the Delisted Contamination database. No further information was provided.</p> <p>Further information regarding these database listings is presented in Section 4.3.</p>			

Detail Table for Northwestern Adjoining Property (301 N. Park Street)

Address	Name	Distance/Direction	Known/Inferred Groundwater Flow Direction:
301 N. Park Street	301 N. Park St.; 301 N. Park St. & 310 N. Lincoln St.; E Teck International Inc.; Marino Engineering	Adjoining/northwest	Inferred southwest

Databases
<p><u>BEA</u> 301 N. Park St. is listed on the BEA database in connection with BEA Nos. 201401378JK and 201401379JK, which were prepared for 301 N. Park Street and 301 [sic] N. Lincoln Street (i.e., a nearby property to the northwest).</p> <p><u>SHWS</u> 301 N. Park St. & 310 N. Lincoln St. is listed on the SHWS database in connection with Part 201 of the NREPA. No further information was provided.</p> <p><u>RCRA Non-Gen</u> E Teck International Inc. identified as a RCRA Non-Gen in March 1998. This owner/operator previously identified as a Non-Gen in January 1980 and May 1997. No records of hazardous waste violations were reported.</p> <p>Marino Engineering also identified as a RCRA Non-Gen in December 2002. This owner/operator previously identified as a Non-Gen in January 1980 and an SQG in September 1990, while a secondary owner and/or operator, Barbee’s Tri-Flo Co., identified also identified as an LQG in March 1990. No records of hazardous waste violations were reported.</p> <p><u>WASTE, or WDS</u> E Teck International Inc. and Marino Engineering are each listed on the WDS database. No further information was provided.</p> <p>Further information regarding these database listings is presented in Section 4.3.</p>

4.2.3 Nearby Sites

AKT Peerless’ review of the referenced databases also considered the potential or likelihood of contamination from nearby sites. To evaluate which of the nearby sites identified in the database report present an environmental risk to the subject property, AKT Peerless considered the following criteria:

- Type of database on which the site is identified.
- Topographic position of the identified site relative to the subject property.
- Direction and distance of the identified site from the subject property.
- Local soil conditions in the subject property area.
- Known or inferred groundwater flow direction in the subject property area.
- Status of the respective regulatory agency-required investigation(s) of the identified site, if any.

- Surface and subsurface obstructions and diversions (e.g., buildings, roads, sewer systems, utility service lines, rivers, lakes, and ditches) located between the identified site and the subject property.

Only those nearby sites that are judged to present a potential environmental risk to the subject property are further evaluated by reviewing regulatory agency file information. Using the above criteria and based upon a review of readily available information contained within the database report, AKT Peerless did not identify nearby sites that present a potential environmental risk to the subject property.

4.2.4 Unplottable Sites

AKT Peerless did not identify unplottable, orphan, or unmapped sites of concern that could not be accurately geo-coded by the third-party provider during review of the database report.

4.3 Regulatory Agency File and Records Review

In January 2020, Michigan Department of Environment, Great Lakes, and Energy (EGLE) changed its Freedom of Information Act (FOIA) request policy. The revised policy includes an internal review of requested documents to evaluate the need for redactions (among other changes). This policy change has resulted in delays to the access of file information and a significant increase in FOIA response fees. In some cases, these time and cost increases have made this information not “reasonably ascertainable” as defined in ASTM Standard Practice E 1527. Only regulatory file information that was considered “reasonably ascertainable” is summarized in the appropriate sections below.

4.3.1 Michigan Department of Licensing and Regulatory Affairs (LARA)

AKT Peerless contacted LARA’s Bureau of Fire Services (BFS) to review available records regarding registered storage tanks associated with the subject property and select adjoining properties.

Subject Property

According to LARA BFS, no records pertaining to the subject property were identified.

Adjoining Properties

According to LARA BFS, no records pertaining to the adjoining properties were identified, except for the following:

Ypsilanti Economic Development Corporation, 206 N. Grove Street (eastern adjoining property)

According to LARA BFS records, Ypsilanti Economic Development Corporation registered one 500-gallon used oil UST for removal during site redevelopment activities in August 2001. The UST installation date is unknown (although the database report indicates the UST was installed in January 1986; see Section 4.2.2), but the UST was reportedly used in connection with a former auto repair/maintenance shop at the site. The site is also described as a former petroleum distributor on the UST registration form. No other information pertaining to the removal of this UST was provided.

In addition, as noted in Section 4.2.2, this adjoining property was identified on the BEA and SHWS databases, which indicate the property is contaminated at levels exceeding residential standards.

Refer to Section 4.4.5 for additional information pertaining to the eastern adjoining property.

Marsh Plating Corp., 103 N. Grove Street (southern adjoining property)

According to LARA BFS records, three USTs were formerly located at the southern adjoining property. Tank 1 was a 12,000-gallon diesel UST installed approximately 50 feet south of the southern exterior wall of the Marsh Plating Corp. building around 1984 and was removed from the ground in June 1996; Tank 2 was a 2,000-gallon gasoline UST installed around 1965 and removed from the ground in October 1989; and Tank 3 was a 2,500-gallon UST variously described as a former diesel UST, a used oil UST, and a waste oil/water UST installed around 1978 and removed from the ground in October 1989.

The records indicate that composite soil samples were collected from the sidewall and floor of each the Tank 2 and Tank 3 cavities following removal in October 1989 and submitted for laboratory analyses of benzene, toluene, ethylbenzene and xylenes (BTEX), gasoline parameters, total hydrocarbons, and/or kerosene parameters. Based on the analytical laboratory results, target parameters were not identified at detectable concentrations, thus indicating clean closure.

The records also included a 45-day UST Removal Site Assessment Closure Report prepared by Innovative Environmental Solutions, Inc. (Innovative) in July 1996 for the removal of Tank 1. According to the Site Assessment Closure Report, no visual, olfactory or photoionization detector (PID) evidence of contamination was identified during the removal of the diesel UST. Two verification of soil remediation (VSR) samples were collected from the bottom of the UST cavity and five VSR samples were collected from product and vent piping runs and submitted for laboratory analyses of polynuclear aromatic hydrocarbons (PNAs). Based on analytical laboratory results, target parameters were not identified at detectable concentrations, thus indicating clean closure.

In addition to the records pertaining to USTs at the southern adjoining property, LARA BFS records indicate that one 1,000-gallon liquefied petroleum gas (LPG) AST was installed along the southern exterior wall of the Marsh Plating Corp. building around 1989. The AST appears to have been constructed in 1973 prior to its installation and remains in use at the southern adjoining property. No records indicative of a release or other environmental conditions were identified.

Refer to Section 4.3.3 for additional information pertaining to the southern adjoining property.

4.3.2 EGLE Remediation and Redevelopment Division (RRD)

AKT Peerless reviewed EGLE RRD's Perfected Lien List (accessed August 31, 2022) to determine whether environmental cleanup liens have been filed against the subject property. In addition, AKT Peerless reviewed EGLE's Environmental Mapper to determine if known land use restrictions have been filed against the subject property.

AKT Peerless also referenced EGLE's Remediation Information Data Exchange (RIDE) for information pertaining to the subject property and select adjoining properties.

In addition, AKT Peerless submitted a request to EGLE RRD to review available file information regarding USTs, leaking underground storage tanks (LUSTs), or other environmental records pertaining to the subject property and select adjoining properties.

Subject Property

According to the Perfected Lien List, EGLE does not have record of environmental cleanup liens filed against the subject property.

Land use restrictions associated with the subject property were not identified during a review of the Environmental Mapper.

The subject property is not listed on the RIDE.

According to EGLE RRD, no records pertaining to the subject property were identified.

Adjoining Properties

Based on AKT Peerless' review of the RIDE and according to EGLE RRD, no records pertaining to the adjoining properties were identified, except for the following:

Ypsi Park Street, LLC and Populist Cleaning Co., 301 N. Park Street and 301 [sic] N. Lincoln Street (northwestern adjoining property)

EGLE RRD provided AKT Peerless with a copy of a BEA prepared by Environmental Consulting & Technology (ECT), Inc. on behalf of Ypsi Park Street, LLC and Populist Cleaning Co. for the northwestern adjoining property in July 2014.

The property subject to the BEA ("Property") included the northwestern adjoining property at 301 N. Park Street and an adjacent tax identification parcel to the west addressed as 310 N. Lincoln Street. At the time of the BEA, the northwestern adjoining property was improved with one light industrial building, while the adjacent parcel was used for parking. The BEA was prepared in part based on the results of a Phase I ESA prepared by Applied Environmental (Applied) in May 2014. Consistent with the findings of a previous Phase I ESA prepared by Applied in January 2007, the May 2014 Phase I ESA identified the following RECs in connection with the Property:

- The Property was occupied by a machine shop from possibly the 1960s through 2005. Use of cutting and hydraulic oils and coolants is common in machining operations. The potential exists for the subject property to have been impacted due to a spill or release of hazardous substances and/or petroleum products. Former use of the Property for machining operations is an REC.
- According to information provided by Mr. Henry Limbright, property owner, the Property was utilized as a paint shop prior to machining operations. In addition, City of Ypsilanti Building Department files contained a permit issued in 1972 for an addition to an existing paint shop. Former use of the Property as a paint shop, which likely included the use of various paint and solvents, is an REC.
- Based on information obtained from the Ypsilanti Fire Department, review of Sanborn Fire Insurance Maps, and observations made during the site reconnaissance conducted on December 27, 2006 (i.e., during the previous Phase I ESA), the Property historically adjoined a coal yard to the west, along the railroad. When coal piles are exposed to precipitation, the resulting runoff can contain various acids, metals, cyanide, and PNAs. Residual coal materials were observed in soils removed from around the base of the subject building during drainage tile installation activities and in surface soils in the adjoining railroad right-of-way. Use of the adjoining property to the west as a coal yard and the presence of residual coal material on the Property is an REC.

In May 2014, Applied conducted a Phase II ESA at the Property to evaluate these RECs. During the subsurface investigation, Applied (1) advanced six hand auger soil borings (HA-1 through HA-6) within the on-site light industrial building; (2) advanced three Geoprobe® soil borings (GP-1 through GP-3) and installed three temporary groundwater monitoring wells on exterior portions of the Property; and (3)

submitted four soil samples (collected from hand auger soil boring locations HA-1, HA-2, HA-3, and HA-4) and three groundwater samples (collected from Geoprobe® soil boring locations GP-1, GP-2, and GP-3) for laboratory analyses of volatile organic compounds (VOCs), PNAs, Michigan Ten Metals (i.e., arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, and zinc), and/or polychlorinated biphenyls (PCBs).

Analytical laboratory results indicated that the VOCs sec-butylbenzene, ethylbenzene, toluene, and xylenes, along with the PNAs benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene were detected in the soil sample collected from 3.5 feet to four feet below ground surface at hand auger soil boring location HA-1, advanced near a filled sump within the footprint of the original paint shop. The concentrations of ethylbenzene and xylenes detected in this soil sample exceeded Part 201 Generic Residential Cleanup Criteria (RCC). While various metals were detected in each soil sample submitted for metals analyses, no metals were identified at concentrations exceeding Part 201 Generic RCC and no other VOCs or PNAs were identified at concentrations above analytical laboratory method detection limits (MDLs). In addition, no VOCs or PNAs were identified in any of the groundwater samples collected from the Property, including the sample collected from the well installed at soil boring location GP-3, which was advanced at an inferred hydraulically downgradient position relative to hand auger soil boring location HA-1 and was the monitoring well nearest the subject property boundary. Arsenic, chromium, and/or lead were detected in two of the groundwater samples at concentrations exceeding Part 201 Generic RCC. ECT therefore prepared the BEA on the basis of soil (ethylbenzene, xylenes) and groundwater (arsenic, chromium, lead) contamination.

In AKT Peerless' opinion, the identified contamination on the northwestern adjoining property does not represent an REC in connection with the subject property. AKT Peerless' opinion is based on the following: (1) the identified soil contamination was identified in shallow subsurface soils beneath the on-site building slab and is therefore protected from the infiltration of precipitation, which could otherwise mobilize the soil contamination; (2) the identified soil contamination is located approximately 175 feet from the subject property boundary, beyond the N. Park Street right-of-way and associated utility corridors; and (3) the groundwater sample collected from an inferred hydraulically downgradient position relative to the identified soil contamination was not impacted with VOCs or PNAs.

AKT Peerless did not identify information pertaining to other adjoining properties on the EGLE RIDE, and no additional reasonably ascertainable information pertaining to other adjoining properties was provided by EGLE RRD.

4.3.3 EGLE Materials Management Division (MMD)

AKT Peerless submitted a request to EGLE MMD to review available file information regarding waste management activities, permits, inspections and violations associated with the subject property and select adjoining properties.

AKT Peerless also reviewed the WDS for information regarding waste disposal operations at the subject property and select adjoining properties. The WDS tracks activities at facilities regulated by the Solid Waste, Scrap Tire, Hazardous Waste, and Liquid Industrial Waste (LIW) programs.

Subject Property

According to EGLE MMD, no records pertaining to the subject property were identified. In addition, the subject property was not identified on the WDS.

Adjoining Properties

Based on AKT Peerless' review of the WDS and according to EGLE MMD, no records pertaining to the adjoining properties were identified, except for the following:

Ypsilanti Econ. Devel. Authority / Abandoned Grove Street Site, 206 N. Grove Street (eastern adjoining property)

According to the WDS, Ypsilanti Economic Development Authority requested a USEPA ID Number in August 2001 related to cleanup of this abandoned site. The owner/operator identified as an SQG at that time and waste generation activities ceased by December 2001. The North American Industry Classification System (NAICS) code provided indicates that the site was associated with "heating oil dealers." No records of hazardous waste violations or enforcement actions were identified.

Refer to Section 4.4.5 for additional information pertaining to the eastern adjoining property.

Marsh Plating Corp., 103 N. Grove Street (southern adjoining property)

According to the WDS, Mitchell Marsh was identified as the owner of the southern adjoining property in July 1980 and Matthew Marsh was identified as the operator of the southern adjoining property in May 1989. According to the NAICS code provided, site operations involve "electroplating, plating, polishing, anodizing, and coloring." The owner/operator identified as an LQG in July 1980, October 1997, March 2000, February 2002, April 2003, February 2004, February 2005, March 2006, May 2008, March 2009, February 2010, June 2012, January 2013, December 2013, August 2014, June 2015, April 2016, July 2016, March 2017, March 2018, April 2019, October 2020, and July 2022. In addition, the owner/operator identified as an LIW generator in February 2004, February 2005, April 2016, and March 2018.

Eight evaluations have been conducted at the southern adjoining property, including on-site compliance evaluation inspections in May 1986, September 1997, March 2001, November 2012, November 2016, and May 2021, a compliance schedule inspection in September 1986, and a follow-up inspection in August 1998. A total of 22 violations were identified during these inspections, including those associated with general requirements for generators, pre-transport requirements for generators, manifest requirements for generators, recordkeeping and reporting requirements for generators, standards for used oil generators, generator duties and requirements, general land disposal restriction (LDR) requirements, and standards for small quantity handlers of universal waste. Generally, the violations were returned to compliance within one year of determination.

Refer to Section 4.4.5 for additional information pertaining to the southern adjoining property.

E Teck International Inc., 301 N. Park Street (northwestern adjoining property)

According to the WDS, Michael Marino was identified as an owner/operator of the northwestern adjoining property from January 1970 until March 1998, while Tom Perla was also identified as an owner during the same period. AKT Peerless notes that January 1970 is a default start date assigned by EGLE

when an actual start date is unknown. The northwestern adjoining property was described as a “liquid industrial waste designated facility” in January 1970 and a “Site out of business and no waste generation” in May 1997 and March 1998. The NAICS code provided indicates that site operations included “engineering services.” No records of hazardous waste violations or enforcement actions were identified.

Marino Engineering, 301 N. Park Street (northwestern adjoining property)

According to the WDS, Mike Marino was identified as an owner/operator of the northwestern adjoining property from May 1993 until December 2001, while Marie Barbee was also identified as an owner in May 1993. The northwestern adjoining property was described as an LIW generator in January 1970, an SQG in September 1990, and a “Site out of business and no waste generation” in December 2001.

As noted in Section 4.3.2, the northwestern adjoining property does not represent an REC in connection with the subject property.

4.3.4 EGLE Drinking Water and Environmental Health Division (DWEHD)

AKT Peerless submitted a request to EGLE DWEHD to review available file information related to non-community water supplies, environmental health, compliance and enforcement, drinking water contamination investigations, and on-site wastewater operations associated with the subject property. According to EGLE DWEHD, no records pertaining to the subject property were identified.

4.3.5 EGLE Oil, Gas, and Minerals Division (OGMD)

AKT Peerless reviewed EGLE’s GeoWebFace online geologic mapping program for oil and gas well records associated with the subject property. No oil and gas well records pertaining to the subject property were identified on GeoWebFace.

4.3.6 EGLE Air Quality Division (AQD)

AKT Peerless submitted a request to EGLE AQD to review available file information regarding environmental records pertaining to the subject property. According to EGLE AQD, no records pertaining to the subject property were identified, except for National Emission Standards for Air Pollutants (NESHAP) Notification records pertaining to the abatement of asbestos-containing materials prior to the demolition of the former on-site commercial building dated August 2016.

Refer to Section 4.4.3 for additional information.

4.4 Additional Environmental Record Sources

4.4.1 Local Health Department

AKT Peerless submitted a request to the Washtenaw County Health Department for well and septic records and records associated with other potential environmental concerns (e.g., landfilling, dumping) pertaining to the subject property. According to the Health Department and a review of publicly available records, no such records pertaining to the subject property were identified.

4.4.2 Local Fire Department

AKT Peerless submitted a request to Ypsilanti Fire Department to review records associated with the subject property and submitted a questionnaire to Fire Marshal Clifton Pope. According to the Fire

Department, no records pertaining to aboveground or underground storage tanks, chemical storage, or spills/releases in connection with the subject property were identified. In addition, Mr. Pope indicated that he is not aware of any releases of hazardous substances or petroleum products on or near the subject property, any processes or activities involving the use of hazardous materials at the subject property, or the current or former presence of any ASTs or USTs at the subject property.

4.4.3 Building Department Records

AKT Peerless reviewed building records for the subject property at the City of Ypsilanti Building Department. The records largely consisted of various building permits and related Historic District Commission correspondence. The records indicate that the former Boys and Girls Club building address was changed from 221 N. Grove Street to 220 N. Park Street in 1987. The Boys and Girls Club vacated the subject property in 2010 and the City of Ypsilanti put the subject property on the market in 2013. In absence of interested buyers, the City of Ypsilanti proposed demolition of the former Boys and Girls Club building in 2015. This request was approved by the Historic District Commission in July 2015. Pre-demolition asbestos abatement was conducted at the former building in the summer of 2016. Municipal water service was disconnected from the former building in the autumn of 2016 and the building was demolished shortly thereafter. No records material to identifying RECs in connection with the subject property were identified.

4.4.4 Assessing Department Records

AKT Peerless reviewed a record card, valuation report, and real estate summary pertaining to the subject property as provided by the City of Ypsilanti Assessor. No information material to identifying RECs in connection with the subject property was identified.

4.4.5 Previous Environmental Reports

The current subject property owner provided AKT Peerless with copies of the following reports documenting previous environmental assessments of the subject property:

Phase I ESA, 220 N. Park Street, prepared in October 2015 by AKT Peerless on behalf of City of Ypsilanti

In October 2015, AKT Peerless prepared a Phase I ESA for the subject property on behalf of City of Ypsilanti. At the time of the assessment, the subject property was improved with one two-story commercial building formerly used as the Boys and Girls Club recreation center and associated exterior baseball diamond, basketball court, and landscaped and parking areas. The commercial building was unoccupied and not used for a significant or obvious purpose at that time.

AKT Peerless identified the following RECs in connection with the subject and adjoining properties:

- During AKT Peerless' site reconnaissance, fill material (soil and concrete) was observed within the thick vegetation located along the southern property boundary. The nature and extent of this fill material is unknown. Therefore, further investigation and/or assessment is warranted in order to evaluate the nature, extent, magnitude, and materiality of this REC.
- A southeastern adjoining property (206 N. Grove Street) was identified as an oil distributor which utilized a bulk oil storage yard from the mid-1950s until the late 1970s. This site was also listed as a SHWS and was identified on the BEA database. In AKT Peerless' opinion, the past use of this adjoining property and identification on the SHWS and BEA databases represents an REC. Therefore, further investigation and/or assessment may be warranted in order to evaluate if potential contaminants have migrated to the subject property.

- A southern adjoining property (204 N. Park Street) was utilized as a coal storage yard and bulk oil and gasoline storage facility in the 1920s until the early 1970s. No information regarding any current or former USTs, ASTs, installation and removal dates, business practices, or other environmental data was identified. In AKT Peerless’ opinion, the past use of this adjoining property represents an REC. Therefore, further investigation and/or assessment may be warranted in order to evaluate if potential contaminants have migrated to the subject property.
- A southern adjoining property (103 N. Grove Street) has been utilized for various industrial operations (including manufacturing, machine shop, foundry, and plating operations) from at least 1916 until the present day. This site was also listed on the RCRA and CERCLIS databases with multiple hazardous waste violations identified. In AKT Peerless’ opinion, the current and past use of this adjoining property represents an REC. Therefore, further investigation and/or assessment may be warranted in order to evaluate if potential contaminants have migrated to the subject property.
- A western adjoining property (223 N. Park Street) historically operated as a coal storage yard from at least 1916 until the mid-1960s. In AKT Peerless’ opinion, the past use of the western adjoining property represents an REC. Therefore, further investigation and/or assessment may be warranted in order to evaluate if potential contaminants have migrated to the subject property.

Phase II ESA, 220 N. Park Street, prepared in September 2021 by AKT Peerless on behalf of DCCBC

To further evaluate the RECs identified in its October 2015 Phase I ESA, AKT Peerless conducted a subsurface investigation at the subject property on June 17, 2021 on behalf of DCCBC and City of Ypsilanti in accordance with ASTM Standard Practice E 1903-19, “Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process.” The subsurface investigation included: (1) the advancement of four soil borings, and (2) the collection of five soil samples and one duplicate soil sample. The soil samples were submitted for laboratory analyses of VOCs, semi-volatile organic compounds (SVOCs), PCBs, PNAs, Michigan Ten Metals, arsenic, cadmium, chromium, lead, and/or hexavalent chromium. Groundwater was not encountered during subsurface investigation activities.

The following table summarizes each REC, the site investigation activities performed to address each REC, and the laboratory parameters used to address each REC.

Summary of Investigation Activity

REC #	Environmental Concern	Investigation Activity	Analytical Parameters
1	Fill material on the southern portion of the subject property.	PS-SB-1 (1’-3’) Soil Duplicate (PS-SB-1, 1’-3’)	VOCs, SVOCs, Michigan Ten Metals, PCBs, and hexavalent chromium
2	Historical use of the southeastern adjoining property (206 N. Grove Street) as an oil distributor/bulk oil storage yard.	PS-SB-2 (17’-19’)	VOCs, SVOCs, Michigan Ten Metals, and hexavalent chromium
3	Historical use of the southern adjoining property (204 N. Park Street) as a coal storage yard and bulk oil and gasoline facility.	PS-SB-1 (10’-12’) PS-SB-3 (16’-18’)	VOCs, PNAs, arsenic, cadmium, chromium, lead, and hexavalent chromium

REC #	Environmental Concern	Investigation Activity	Analytical Parameters
4	Current and historical use of the southern adjoining property (103 N. Grove Street) for industrial operations.	PS-SB-1 (10'-12') PS-SB-2 (17'-19')	VOCs, SVOCs, PNAs, Michigan Ten Metals, arsenic, cadmium, chromium, lead, and/or hexavalent chromium
5	Historical use of the western adjoining property (223 N. Park Street) as a coal storage yard.	PS-SB-4 (6'-8')	VOCs, PNAs, arsenic

The results of the investigation indicate the following:

- Arsenic was detected in one shallow subsurface soil sample and one soil duplicate sample collected from soil boring location PS-SB-1, which was advanced in part to evaluate on-site fill material, at concentrations exceeding Part 201 Generic RCC, including Groundwater to Surface Water Interface Protection (GSIP) and Drinking Water Protection (DWP) criteria.
- Selenium was also detected in one shallow subsurface soil sample collected from soil boring location PS-SB-1, which was advanced in part to evaluate on-site fill material, at a concentration exceeding Part 201 Generic GSIP criteria.

Based on the laboratory analytical results associated with the shallow soil sample and soil duplicate sample collected from soil boring location PS-SB-1, the subject property meets the definition of a “facility,” as defined in Part 201 of the NREPA.

In AKT Peerless’ opinion, the “facility” status of the subject property represents an REC. Furthermore, in AKT Peerless’ opinion, the off-site RECs have been adequately evaluated and no further evaluation is warranted at this time.

Refer to Figure 2 for a site map with AKT Peerless’ 2021 soil boring locations.

4.5 Historical Research

The objective of reviewing historical resources is to: (1) develop a history of previous uses or specific occupancies of the subject property, (2) identify those uses or specific occupancies that are likely to have led to potential environmental concerns at the subject property, and to the extent identifiable, at adjoining properties, and (3) identify obvious uses of the subject property from the present, back to the first *obvious* developed use, or back to 1940, whichever is earlier.

Historical Summary – Subject Property

The subject property was owned by John Gilbert by 1859. John Gilbert constructed the existing mansion on the northern adjoining property at 227 N. Grove Street during his ownership and appears to have maintained the subject property as undeveloped grounds around the mansion until the mansion was vacated around 1928. The Gilbert mansion was briefly occupied by Arm of Honor Fraternity in the 1930s. In 1938, City of Ypsilanti acquired the subject property and Gilbert mansion through tax foreclosure and subsequently maintained the subject property as a recreational park. The Boys Club of Ypsilanti (later the Boys and Girls Club) appears to have begun using and/or maintaining the subject property by 1963. In the early 1970s, the Boys and Girls Club constructed the original portion of the former Club building, which was expanded in the 1990s. The Boys and Girls Club continued to occupy and maintain the subject

property until vacating the former building in 2010. The former building and exterior basketball court and baseball diamond features were demolished in 2016. City of Ypsilanti has since maintained the subject property as lawn and trees with no significant or obvious use.

Historical Summary – Adjoining Properties

The adjoining properties have included residential, light industrial, and industrial developments since at least 1916. As noted in Section 4.3 and the subsections below, the eastern adjoining property at 206 N. Grove Street was used for light industrial operations and oil storage between the 1950s and 1980s; the southern adjoining property at 103 N. Grove Street has been used for industrial operations since at least 1916; the southern adjoining property at 204 N. Park Street was used as a coal storage yard and bulk oil storage facility from at least 1927 until the 1970s; and the western adjoining property at 223 N. Park Street was used as a coal storage yard from at least 1916 until the 1960s.

4.5.1 Aerial Photographs

AKT Peerless obtained aerial photographs for the subject property from Environmental Data Resources (EDR) and Google Earth. AKT Peerless’ observations noted during the review of these photographs are summarized in the following table. Photocopies of reviewed aerial photographs with associated resource references are presented as **Appendix D**.

Subject Property Aerial Photography Summary

Photograph Dates	Observations (Subject Property)	Potential Environmental Concerns
1937, 1940, 1949, 1956, 1961, 1967	The subject property appears to consist of a recreational area improved with walking paths, a basketball court, and a baseball diamond.	None observed
1978, 1985	The subject property appears to be developed with a portion of the Boys and Girls Club building and associated recreational features, as summarized above.	None observed
1993, 2000, 2005, 2006, 2009, 2010, 2012, 2016	The subject property appears to be developed with the expanded Boys and Girls Club building and associated recreational features, as summarized above.	None observed
2017, 2018, 2019, 2020, 2022	The Boys and Girls Club building and basketball court appear to have been demolished and the use of the baseball diamond discontinued. The majority of the subject property appears to consist of maintained lawn by 2018, with no significant or obvious use, consistent with current conditions.	None observed

AKT Peerless’ review of historical aerial photographs of the adjoining properties is summarized in the following table:

Adjoining Property Aerial Photography Summary

Photograph Dates	Potential Environmental Concerns (Adjoining Properties)
1937-2022	No obvious evidence or indications of environmental concerns were noted with respect to the adjoining properties during AKT Peerless’ review of the referenced aerial photographs, except for the light industrial to industrial use of the eastern (i.e., 206 N. Grove Street), southern (i.e., 103 N. Grove Street, 204 N. Park Street), and western (i.e., 223 N. Park Street) adjoining properties. The southern and western adjoining properties appear to have been used for light industrial to industrial use by the 1930s, while the eastern adjoining property appears to have been used for light industrial use by the 1950s.

As noted in Section 4.4.5, the uses of the referenced adjoining properties have been adequately evaluated.

4.5.2 Fire Insurance Maps

AKT Peerless obtained historical fire insurance maps of the subject property from Environmental Risk Information Services (ERIS). AKT Peerless’ observations noted on the subject property during the review of these maps are summarized in the following table. Photocopies of the referenced maps with associated resource references are presented in **Appendix E**.

Subject Property Fire Insurance Maps Observations

Map Dates	Observations (Subject Property)	Potential Environmental Concerns
1916, 1927, 1950, 1964	The subject property is depicted as undeveloped land.	None observed

AKT Peerless’ review of historical fire insurance maps of the adjoining properties is summarized in the following table:

Adjoining Properties Fire Insurance Maps Observations

Map Dates	Potential Environmental Concerns (Adjoining Properties)
1916-1964	No obvious evidence or indications of RECs or other potential environmental concerns were noted with respect to the adjoining properties during AKT Peerless’ review of the referenced maps, except that the eastern adjoining property at 206 N. Grove Street was depicted as a light industrial operation with oil storage tanks in the 1950 and 1964 maps; the southern adjoining property at 103 N. Grove Street was depicted as an industrial operation (including manufacturing, machine shop, and foundry operations) in the 1916 through 1964 maps; the southern adjoining property at 204 N. Park Street was depicted as a coal storage yard and oil company in the 1927 through 1964 maps; and the western adjoining property at 223 N. Park Street was depicted as a coal storage yard in the 1927 through 1964 maps.

As noted in Section 4.4.5, the uses of the referenced adjoining properties have been adequately evaluated.

4.5.3 City Directories

Local street directory information from various years published between 1928 through 2014 was reviewed as provided by ERIS. The purpose of this review was to determine the past occupancy of the subject property. Directories were reviewed in approximately five-year intervals, or as available. Photocopies of the reviewed local street directories with associated resource references are presented in **Appendix F**. Information obtained from the reviewed directories is summarized in the following table:

Local Street Directory Data

Year	Address	Listing
1943, 1948, 1954	227 N. Grove Street	Gilbert Community House
1958	227 N. Grove Street	Gilbert Community House; City Dep't of Parks & Recreation; City Dep't of Forestry
1963	227 N. Grove Street	Boys Club of Ypsi
1967, 1968, 1972, 1973	227 N. Grove Street	Boys Club
1977, 1978, 1983, 1984, 1987, 1988	221 N. Grove Street	Boys Club
1992, 1993, 1997, 1998, 2002, 2003	220 N. Park Street	Boys & Girls Club (and similar); Huron Valley Boys & Girls (and similar)
2007, 2008, 2014	220 N. Park Street	No listing

AKT Peerless also reviewed local street directories for select adjoining properties to determine their past occupancies. No obvious environmental concerns associated with these adjoining properties were identified, except for the following:

- The eastern adjoining property located at 206 N. Grove Street was listed as Ray Lidke Oil Company in the 1954 through 1977 directories and Busby Freight Lines in the 1983 through 1987 directories.
- The southern adjoining property located at 103 N. Grove Street was listed as Ypsilanti Motor Castings Company in the 1928 directory, American Radiator Company in the 1938 directory, Ypsilanti Machine and Tool Company in the 1948 through 1954 directories, Reynold Chemical Production Division in the 1958 directory, and Marsh Plating in the 1967 through 2014 directories.
- The southern adjoining property located at 204 N. Park Street was listed as Gulf Refining Bulk Station in the 1943 through 1948 directories, Silkworth Oil Distribution Company in the 1954 through 1972 directories, and Production Tooling in the 1977 through 1983 directories.

- The northwestern adjoining property located at 301 N. Park Street was listed as Ypsi Buffing Corp. in the 1963 directory, Tri-Flo in the 1968 through 1988 directories, Barbees Co. in the 1992 through 1993 directories, E Teck Inc. in the 1997 through 1998 directories, Marino Engineering in the 1997 through 2003 directories, and Performance Enterprise in the 2007 through 2008 directories.

As noted in Section 4.4.5, the uses of the referenced adjoining properties have been adequately evaluated.

4.5.4 Topographic Maps

AKT Peerless determined that review of historical topographic maps was not likely to be useful in identifying RECs due to the long-term urban development of the property and surrounding area.

4.5.5 Land Title Records

Unless otherwise noted, AKT Peerless did not identify or research, and was not provided by the Client, current subject property owner, or prospective subject property owner, land title records associated with the subject property.

4.5.6 Other Historical Resources

AKT Peerless did not identify other historical resources with relevant information pertaining to the subject property.

5.0 Interviews

5.1 Interview with Subject Property Owner

The subject property is currently owned by City of Ypsilanti. AKT Peerless interviewed Mr. Joe Meyers, City of Ypsilanti Director of Economic Development, and Mr. Christopher Jacobs, City of Ypsilanti Community Development Manager, regarding the City's knowledge of the subject property. City of Ypsilanti indicated that the subject property has been used as a recreational park for most of its settled history and that City of Ypsilanti acquired the subject property through tax foreclosure in 1938. City of Ypsilanti referred to AKT Peerless' October 2015 Phase I ESA and September 2021 Phase II ESA (see Section 4.4.5) for additional information pertaining to environmental conditions at the subject property.

A copy of the completed owner questionnaire is presented in **Appendix G**.

5.2 Interview with Key Site Manager

Refer to Section 5.1.

5.3 Interview with Subject Property Occupants and Operators

The subject property is unoccupied; therefore, this section does not apply.

5.4 Interview(s) with Others

AKT Peerless did not conduct interviews with others during this assessment because the historical use of the subject property has been identified. Furthermore, interviews with the occupants of adjoining and

nearby properties were not conducted because the subject property is not considered abandoned, as defined by ASTM Standard Practice E 1527.

6.0 Subject Property Reconnaissance

6.1 Methodology and Limiting Conditions

The subject property reconnaissance consisted of visual and physical observations of the subject property. AKT Peerless visually and/or physically observed the periphery of the subject property. In addition, AKT Peerless observed the subject property from all adjacent public thoroughfares.

Mr. Scott Wasielewski of AKT Peerless conducted the subject property reconnaissance on May 10, 2022. AKT Peerless did not encounter project specific facts or conditions that limited our ability to access the subject property, except for some areas of dense vegetation along the southern property boundary.

6.2 General Subject Property Setting and Operations

The subject property consists of undeveloped, vegetated land (i.e., maintained lawn, trees) and does not contain structures or other improvements.

6.3 Observations

6.3.1 Hazardous Substances and Petroleum Products

AKT Peerless did not observe hazardous substances or petroleum products (including wastes) at the subject property.

6.3.2 Storage Tanks

AKT Peerless did not observe evidence of current or former UST systems (e.g., vent pipes, fill ports, dispensing pumps, patched pavement, etc.) at the subject property.

AKT Peerless did not observe evidence of current or former AST systems (e.g., stands, secondary containments, etc.) at the subject property.

6.3.3 Strong, Pungent, or Noxious Odors

AKT Peerless did not observe evidence of strong, pungent, or noxious odors at the subject property.

6.3.4 Unidentified Substance Containers

AKT Peerless did not observe evidence of unidentified substances or other suspect containers at the subject property.

6.3.5 Potential PCB Containing Items

AKT Peerless inspected the subject property for the presence of liquid-cooled electrical units such as transformers and large capacitors. Such units are notable since they may be potential sources of PCBs. AKT Peerless did not observe suspect PCB-containing electrical equipment at the subject property, except for the following:

Potential PCB-Containing Electrical Equipment

Source Description	Source Location	Responsibility	Observations
One pad-mounted transformer	North-central portion of subject property	Not identified	No evidence of a release
One pole-mounted transformer	Southwest corner of subject property	DTE Energy	No evidence of a release

AKT Peerless observed one apparent pad-mounted transformer on the north-central portion of the subject property. The apparent transformer had no markings and AKT Peerless was unable to determine whether the equipment was associated with the former on-site Boys and Girls Club building or with the existing multi-family residential structure (i.e., Gilbert mansion) on the northern adjoining property at 227 N. Grove Street.

In addition, AKT Peerless observed one pole-mounted transformer near the southwest corner of the subject property. The pole-mounted transformer is the responsibility of DTE Energy. In the event of a release incident, DTE Energy will repair the damaged or leaking electrical unit(s) and return the quality of the affected soil and groundwater, if any, to its pre-release condition. AKT Peerless did not observe evidence or indication of oil stains, leaks, or spills near the transformers.

6.3.6 Interior Staining/Corrosion

There are no structures at the subject property; therefore, this section does not apply.

6.3.7 Drains and Sumps

There are no structures at the subject property; therefore, this section does not apply.

6.3.8 Water/Wastewater Discharges

AKT Peerless did not observe evidence of wastewater or other liquid (including storm water) discharges containing hazardous substances or petroleum products at the subject property.

Storm water that falls upon the subject property appears to evaporate, infiltrate directly into the ground, or runoff to the adjoining properties and/or rights-of-way.

6.3.9 Standing Water, Pools, Waste Pits, Ponds, and Lagoons

AKT Peerless did not observe standing water, pools, sumps, pits, ponds, or lagoons containing liquids considered likely to contain hazardous substances or petroleum products at the subject property.

6.3.10 Solid Waste Dumping/Landfills

AKT Peerless did not observe evidence of solid waste dumping or landfilling at the subject property, except for one small area of concrete debris and surficial fill material on the south-central portion of the subject property within an area of dense vegetation.

As noted in Section 4.4.5, soil contamination at was identified in connection with this on-site fill material during completion of AKT Peerless’ September 2021 Phase II ESA. This fill material therefore represents an REC in connection with the subject property.

6.3.11 Stained Soil, Stressed Vegetation, Stained Pavement

AKT Peerless did not observe evidence of stained soil, stressed vegetation, or stained pavement at the subject property.

6.3.12 Well and Septic Systems

AKT Peerless did not observe physical evidence of drinking water wells, septic systems, or cesspools at the subject property.

6.3.13 Other Observations

AKT Peerless did not observe evidence of other potential environmental concerns at the subject property.

6.3.14 Adjoining Properties

Based on AKT Peerless' visual observations, the current uses of the adjoining properties do not appear to pose an environmental concern to the subject property, except for the light industrial buildings located on the southern adjoining properties at 103 N. Grove Street and 204 N. Park Street. However, as noted in Section 4.4.5, the uses of these adjoining properties have been adequately evaluated.

6.4 Non-ASTM Standard Practice E 1527 Scope Considerations

AKT Peerless did not evaluate other potential environmental conditions (i.e., further areas of possible business/environmental concern and/or liability) that are outside the scope of ASTM Standard Practice E 1527. Examples of such potential environmental conditions that were beyond the scope of this Phase I ESA include: asbestos containing materials (ACMs), biological agents, cultural and historic resources, ecological resources, endangered species, health and safety, indoor air quality, industrial hygiene, lead-based paints (LBPs), lead in drinking water, moisture intrusion/suspect mold or microbial growth, noise pollution, naturally-occurring radon, regulatory compliance/non-compliance, substances not defined as CERCLA hazardous substances, and/or wetlands.

Users of this document who wish to obtain an evaluation of the subject property relative to any of the aforementioned non-ASTM Standard Practice E 1527 scope considerations may contact AKT Peerless to retain these services.

7.0 Findings, Opinions, and Conclusions

AKT Peerless has performed a Phase I ESA in conformance with the scope and limitations of ASTM Standard Practice E 1527 of the property located at 220 N. Park Street in Ypsilanti, Washtenaw County, Michigan (the subject property). Any exceptions to, or deletions from, this practice are described in Section 8.0 of this report. AKT Peerless' findings and opinions with respect to potential RECs are presented throughout this report, including discussion and analysis of potential RECs that, after further consideration and research, were not determined to be RECs, CRECs, or HRECs. Such findings and opinions are discussed in the appropriate sections of this report.

7.1 Recognized Environmental Conditions

This assessment has revealed no evidence of known RECs in connection with the subject property, except for the following:

REC 1 - In September 2021, AKT Peerless completed a Phase II ESA of the subject property to evaluate RECs (i.e., one on-site REC and four off-site RECs) previously identified in AKT Peerless' October 2015 Phase I ESA of the subject property. Soil contamination, including arsenic and selenium comingled with low-level PNAs, were identified in the soil sample collected to evaluate the on-site REC (i.e., surficial and shallow subsurface fill material of unknown origin) on the south-central portion of the subject property. (Contamination associated with the off-site RECs was not identified.) The concentrations of arsenic and selenium exceed Part 201 Generic RCC, thus qualifying the subject property as a "facility," as defined in Part 201 of the NREPA. The "facility" status of the subject property therefore represents an REC.

In AKT Peerless' opinion, the RECs previously identified in AKT Peerless' October 2015 Phase I ESA of the subject property have been adequately evaluated and no further investigation and/or assessment is warranted at this time.

Based on the results of AKT Peerless' September 2021 Phase II ESA, AKT Peerless recommends any future owner(s)/operator(s) prepare a BEA. Section 26(1)(c) of Part 201 provides certain liability protections to a person who becomes an owner or operator of a "facility" on or after June 5, 1995, if they comply with both of the following, or unless other defenses apply: a BEA is conducted prior to or within 45 days after the earlier of the date of purchase, occupancy, or foreclosure, and the owner or operator discloses the results of the BEA to EGLE RRD and subsequent purchaser or transferee.

Since the property meets the definition of a "facility," the property owner is also required to comply with Due Care obligations. Due Care obligations include:

- Undertaking measures to prevent exacerbation of existing contamination.
- Exercising Due Care by undertaking Response Activities to mitigate unacceptable exposure to hazardous substances, mitigate fire and explosion hazards due to hazardous substances, and allow for the intended use of the subject property in a manner that protects health and safety.
- Taking reasonable precautions against the reasonably foreseeable acts or omissions of a third party and the consequences that could result from those acts or omissions.
- Providing notifications to EGLE and others in regard to mitigating fire and explosions hazards, discarded or abandoned containers, contamination migrating beyond property boundaries, as applicable.
- Comply with any land use or resource use restrictions established or relied on in connection with any Response Activities at the "facility."
- Not impede the effectiveness or integrity of any land use or resource use restrictions employed at the "facility" in connection with Response Activities.

A future owner/operator may be required to conduct additional subsurface investigation activities at the subject property to further evaluate potential exposure pathways in connection with known contamination to comply with Due Care obligations.

7.2 Controlled Recognized Environmental Conditions

This assessment has revealed no evidence of known CRECs in connection with the subject property.

7.3 Historical Recognized Environmental Conditions

This assessment has revealed no evidence of known HRECs in connection with the subject property.

7.4 De Minimis Conditions

During the course of Phase I ESAs, AKT Peerless often encounters conditions that generally do not present a threat to human health or the environment and that generally would not be subject to an enforcement action if brought to the attention of appropriate governmental agencies. These conditions are not considered RECs, CRECs, or HRECs, but are defined by ASTM Standard Practice E 1527 as *de minimis* conditions. In the interest of brevity, AKT Peerless did not develop a full list of *de minimis* conditions in this section, but rather evaluated and identified these conditions in the appropriate sections of this report.

7.5 Significant Data Gaps

A data gap is a lack of, or inability to, obtain required information during the course of a Phase I ESA. AKT Peerless summarized data gaps, if identified, in the appropriate sections of this report related to the source of information. A significant data gap is a data gap that affects AKT Peerless' ability to identify RECs. This assessment has revealed no instances of significant data gaps in connection with the subject property.

7.6 Other Notable Environmental Considerations

AKT Peerless' Phase I ESAs occasionally reveal other notable environmental considerations that may be relevant to the condition of the subject property that do not qualify as RECs, CRECs, HRECs, or *de minimis* conditions. Other notable environmental considerations identified during this assessment include the following:

- AKT Peerless' review of readily available standard and other historical sources provided only limited information regarding potable water and sanitary sewer services or systems utilized by the former structure present on the subject property between the early 1970s and 2016. As specific connection dates were not identified, the former structure present on the subject property might have utilized on-site potable water well(s) and/or private septic system(s) prior to connection to municipal services. It is likely that these features, if any, would have been identified and removed at the time of connection to municipal services. However, if any drinking water wells or septic systems are identified or encountered during future development activities, they should be decommissioned, removed, and/or disposed in accordance with applicable federal, state, and local regulations.

8.0 Deviations

AKT Peerless did not deviate from ASTM Standard Practice E 1527 when performing this Phase I ESA (i.e., no components of that practice were deleted and no additions to it were made).

9.0 Project Resources and References

AKT Peerless referred to the following resources between May 10, 2022 and September 12, 2022 to complete its Phase I ESA:

- USEPA
- USGS
- USDA
- LARA
- EGLE
- Washtenaw County Health Department
- City of Ypsilanti Government Sources (e.g., assessing, building, fire, departments, etc.)
- YCUA
- EDR
- ERIS
- Interviews and Questionnaire Responses
- Previous environmental assessments

Individual resources obtained from the referenced sources are cited in the appropriate sections of this report.

10.0 Continued Viability Evaluation

As described in Section 4.6 of ASTM Standard Practice E 1527, a Phase I ESA meeting or exceeding the ASTM standard practice is presumed to be viable when conducted within 180 days prior to the date of property acquisition, lease, or refinance. Certain components of the Phase I ESA may be updated within one year. The completion dates of those components are summarized in the following table:

Continued Viability Evaluation

Critical Component	Completion Date
State and Federal Database Report	May 10, 2022
Government Records Review	September 9, 2022
Interviews	August 31, 2022
Site Inspection	May 10, 2022
Environmental Professional Declaration	September 13, 2022

11.0 Signatures of Environmental Professionals

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



Scott Wasielewski

Project Manager

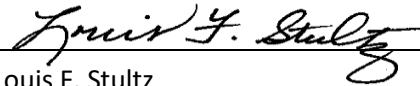
AKT Peerless

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Louis F. Stultz

Senior Project Manager/Group Leader

AKT Peerless

Farmington, Michigan Office

Phone: 248-615-1333

Fax: 248-615-1334

stultzl@aktpeerless.com

Qualifications

Scott Wasielewski

Project Manager

Mr. Wasielewski has eight years of environmental consulting experience involving due diligence, subsurface investigations, vapor mitigation, and construction oversight.

EDUCATION

MS: Environmental Science, 2014 / University of Michigan – Dearborn

BS: Environmental Biology/Microbiology, 2007 / Michigan State University

CERTIFICATIONS

40-Hour Hazardous Waste Operations & Emergency Response / OSHA, 29 CFR 1910.120

2-Hour Asbestos Awareness / EPA, 40 CFR Part 763; OSHA, 29 CFR 1926.1101

Certified Inspector / Land Science Technologies (Geo-Seal® vapor barrier)

EXPERIENCE

Project Manager

AKT Peerless (current)

Senior Environmental Consultant

AKT Peerless (2017-2019)

Environmental Consultant

AKT Peerless (2013-2017)

SKILLS

- Phase I and Phase II Environmental Site Assessments
- Baseline Environmental Assessments
- Due Care compliance analyses
- Underground storage tank and leaking underground storage tank activities, assessments, and reporting
- Development of site-specific cleanup criteria based on contaminant background concentrations and/or unique exposure assumptions for receptors not meeting “residential” or “non-residential” definitions
- Vapor encroachment/intrusion investigations and pressure field extension testing to support the design of active mitigation systems
- Oversight and inspection of vapor barrier installations and associated passive mitigation system performance monitoring in residential and commercial settings

Louis F. Stultz

Group Leader



Mr. Stultz brings 21 years of professional experience in environmental consulting services. His expertise is in environmental due diligence, remedial investigations, and remediation systems.

PROFESSIONAL EXPERIENCE

**S.E. Michigan Regional Manager
Industrial Services Director**
AKT Peerless

Senior Project Manager
Canopus Environmental Group, Inc.

Project Manager
Atwell-Hicks, Inc.

Project Geologist
Snell Environmental Group, Inc.

Geologist
Aqua-Terra, Inc.

CERTIFICATIONS

OSHA
40 Hour Hazwoper Class and subsequent 8-hour refreshers

Asbestos Inspector
(Accreditation #A 14344) and subsequent 4-hour refreshers

**Risk Based Corrective Action
Petroleum Sites**
(MDEQ - RBCA Training)

**Assessment/Remediation of Petroleum
Hydrocarbons**
(Training - Private Contractor)

SARA Title III; Tier Two Reporting/Training

EDUCATION

BS: Geology, 1994
Eastern Michigan University

AREAS OF EXPERTISE

- Part 201 Environmental Due Diligence, including Phase I & II ESAs, and BEA/DCPs
- Part 213, Leaking Underground Storage Tank guidelines, removal and reporting
- Report writing under P.A. 451, Parts 201 and 213
- Brownfield Consulting Services
- Developing standard procedural guidelines, including work plans, USEPA QAPP, HASP & SAP documents
- Asbestos building inspections
- Environmental building assessments (Hazardous Materials Surveys) conducted in preparation of intended demolition activities prior to site redevelopment
- Conducting environmental compliance audits, preparing SPCC and SWPP plans

SUMMARY OF SELECTED PROJECTS

Phase I Environmental Site Assessments

- Project Manager for 500 Phase I ESAs since November of 1998.
- Personally completed over 175 Phase I ESAs since 1994.
- Multi-Site Phase I ESAs – Detroit, Michigan. Site manager for the completion of 35 Phase I ESAs (potential casino location) and 39 Phase I ESAs (professional stadium complex) in accordance with ASTM and City of Detroit guidelines. These projects were under extreme time constraints and were completed on schedule.

Leaking Underground Storage Tank Sites

- Fort Wayne Military Reservation, Detroit, Michigan: U. S. Army Corps of Engineers
- Michigan State Police Posts: Michigan Department of Management & Budget
- Michigan Department of Military Affairs, including; Detroit Artillery Armory, Oak Park; Detroit Light Guard Armory, Detroit; Midland Armory, Midland, and the Monroe Armory, Monroe
- Standard Federal Bank branches, Southeast Michigan
- Multiple current and former gas station sites throughout Michigan
- Amoco fuel storage terminal, Bay City, Michigan
- Amoco bulk fuel storage facility, Coldwater, Michigan
- Bulk fuel storage facility, Romulus, Michigan
- Multiple auto dealerships located throughout Southeast Michigan

Phase II Environmental Site Assessments/Subsurface Investigations : Baseline Environmental Assessments & Due Care Plan Preparation

- Independent bulk fuel storage facilities throughout Michigan
- Numerous industrial manufacturing facilities throughout Michigan
- Numerous commercial properties throughout Michigan
- Warehouse distribution facilities throughout Michigan
- Farmland/residential development sites throughout Michigan
- Managed and/or conducted all project activities, including the advancement of Geoprobe and hollow-stem auger borings, soil verification sampling, laboratory analysis, soil disposal, well installation & abandonment, summary/closure reporting, Phase II ESA/SI and BEA/Due Care Plan preparation, and all client/regulatory contacts and requirements.

Remedial Investigations

- Revere, Copper & Brass (MDEQ "Level of Effort" Contract) – Detroit, Michigan.
- Lear Siegler (MDEQ "Level of Effort" Contract) – Detroit, Michigan
- Anaconda Brass (MDEQ "Level of Effort" Contract) – Detroit, Michigan
- Lawton Street (MDEQ "Level of Effort" Contract) – Detroit, Michigan
- Supervised field activities during each remedial investigation, including the collection and submittal of soil, sludge, groundwater and concrete samples throughout each industrial complex.
- Supervised the installation of monitoring wells, and the collection and submittal of all surface water and ground water samples during quarterly sampling events. Conducted monitoring well slug tests. Assisted in the development of the RI/RAP Reports.
- Former NIKE Missile Battery, Southfield, Michigan: U. S. Army Corps of Engineers.
- Performed environmental oversight during demolition activities and supervised the removal of accumulated groundwater within the missile silos.

Responsibilities include, directing brownfield consulting services and/or providing project management for a number of brownfield redevelopment projects benefiting both private developers and municipalities.

Services include:

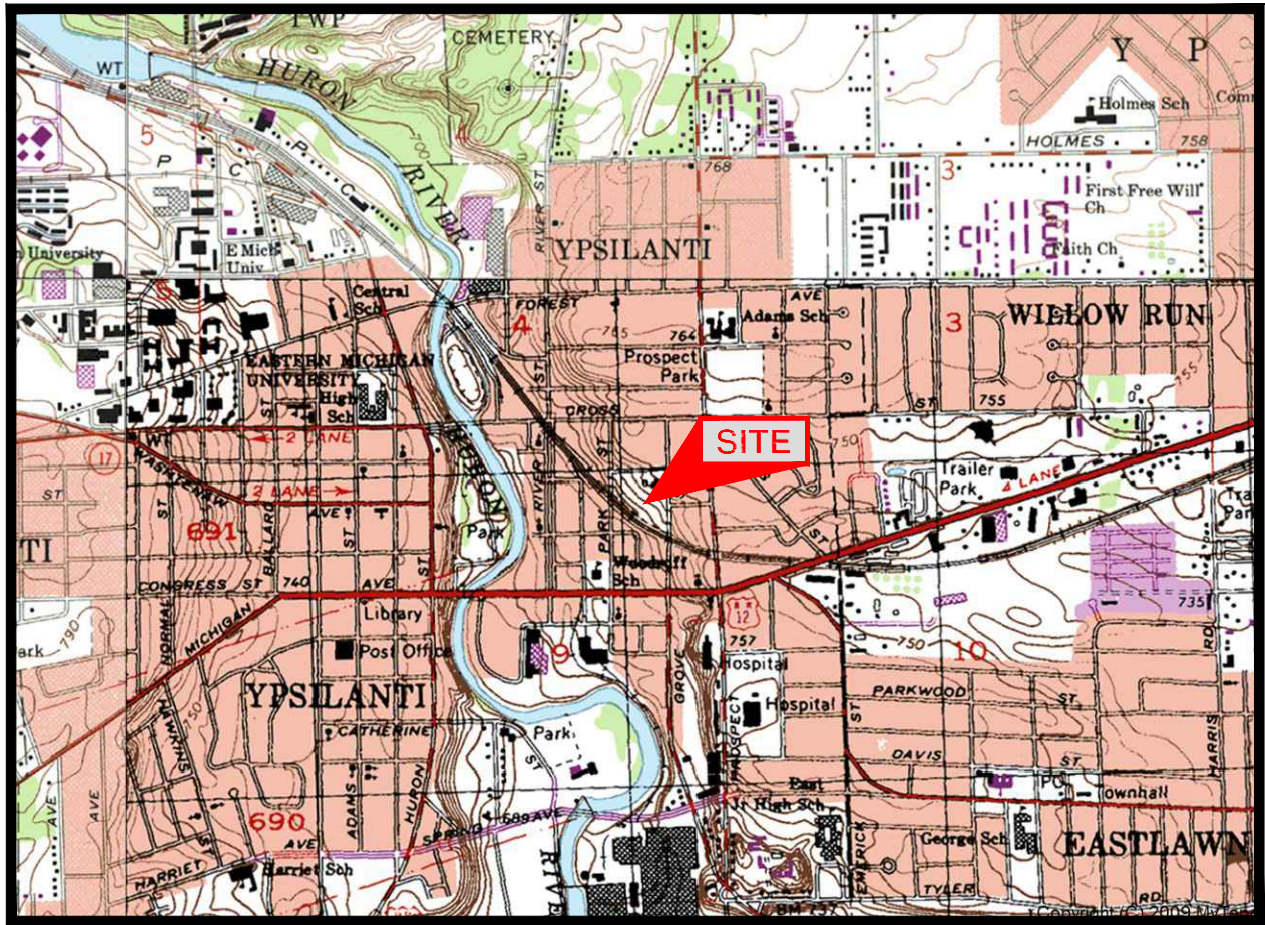
- Writing Brownfield Plans and Act 381 Work Plans (TIF Reimbursement)
- MBT Credit Applications
- Brownfield Redevelopment Grants & Loans (CMI)
- USEPA Revolving Loan Fund/Grants and Assessment/Cleanup Grants.

Brownfield projects, consulting and/or business development services were conducted through the following Brownfield Redevelopment Authorities (BRAs):

Ann Arbor (formally independent, currently part of WCBRA), Auburn Hills, Battle Creek, Detroit, Genesee County (Land Bank Authority), Howell, Kalamazoo, Lansing, Lincoln Park, Monroe, Trenton, Vassar Township, Washtenaw County (Saline, Chelsea, and Dexter) and Ypsilanti (formally independent, currently part of WCBRA).

Figures

YPSILANTI EAST QUADRANGLE
 MICHIGAN - WASHTENAW COUNTY
 7.5 MINUTE SERIES (TOPOGRAPHIC)



T.3 S.-R.7 E.

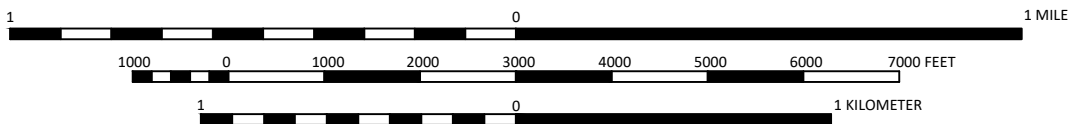


IMAGE TAKEN FROM 1996 U.S.G.S. TOPOGRAPHIC MAP

MICHIGAN
 QUADRANGLE LOCATION



AKTPEERLESS™
 ENVIRONMENTAL SERVICES

www.aktpeerless.com

TOPOGRAPHIC LOCATION MAP

220 N. PARK STREET
 YPSILANTI, MICHIGAN

PROJECT NUMBER : 10627F2-1-17

DRAWN BY: MST
 DATE: 09/07/2022

FIGURE 1



GREAT LAKES DESIGN, LLC
301 N. PARK STREET

SINGLE-FAMILY
RESIDENTIAL
302 N. PARK STREET

SINGLE-FAMILY
RESIDENTIAL
313 HIGH STREET

SINGLE-FAMILY
RESIDENTIAL
315 HIGH STREET

HIGH STREET

UNDEVELOPED LAND,
REMNANT PAVED
PARKING LOT
(FORMER COAL
STORAGE LOT)
223 N. PARK STREET

N. PARK STREET

PS-SB-4

GRASS

FORMER BOYS & GIRLS CLUB
RECREATION CENTER
(c. 1970s-2016)

MULTI-FAMILY
RESIDENTIAL
(GILBERT MANSION)
227 N. GROVE STREET

ASPHALT PARKING AREA

PAD-MOUNTED
TRANSFORMER

N. GROVE STREET

SINGLE-FAMILY
RESIDENTIAL
216 N. GROVE STREET

SINGLE-FAMILY
RESIDENTIAL
209-213 N. PARK STREET

REMNANT
GRAVEL DRIVE

PS-SB-3

FILL MATERIAL WITHIN
VEGETATION

PS-SB-1

GRASS

LOCUST
STREET

SINGLE-FAMILY
RESIDENTIAL
410 LOCUST STREET

SINGLE-FAMILY
RESIDENTIAL
214 N. GROVE STREET
SINGLE-FAMILY
RESIDENTIAL
212 N. GROVE STREET

LIGHT INDUSTRIAL, NOT
OTHERWISE IDENTIFIED
(FORMER COAL STORAGE
YARD AND BULK OIL
STORAGE FACILITY)
204 N. PARK STREET

SINGLE-FAMILY
RESIDENTIAL
208 N. GROVE STREET

UNDEVELOPED LAND,
REMNANT PAVED
PARKING LOT
(FORMER LIGHT
INDUSTRIAL AND
OIL STORAGE)
(BEA, SHWS, UST, RCRA
NON-GEN, WDS,
FIND/FRS)
206 N. GROVE STREET

NORTH STREET

LEGEND
 = PROPERTY LINE
 = AKT PEERLESS 2021
 SOIL BORING LOCATION

MARSH PLATING
(FORMER FOUNDRY & MANUFACTURING)
103 N. GROVE STREET
(CERCLIS NFRAP, RCRA TSD, RCRA LQG,
UST, AST, DESLISTED TANK, WDS)



www.aktpeerless.com

SUBJECT PROPERTY MAP

220 N. PARK STREET
YPSILANTI, MICHIGAN
PROJECT NUMBER: 10627F2-1-17

DRAWN BY: MST
DATE: 09/07/2022

0 60 120
SCALE: 1" = 120'

FIGURE 2



AKTPEERLESS
 ENVIRONMENTAL SERVICES
 www.aktpeerless.com

SUBJECT PROPERTY LOCATION MAP

220 N. PARK STREET
 YPSILANTI, MICHIGAN
 PROJECT NUMBER : 10627F2-1-17

LEGEND

N
 W E
 S

DRAWN BY: MST
 DATE: 09/07/2022

FIGURE 3

Appendix A
Property Description and Parcel Map

220 N PARK ST YPSILANTI, MI 48198 (Property Address)

Parcel Number: 11-11-09-111-004



Property Owner: CITY OF YPSILANTI

Summary Information

> Assessed Value: \$0 | Taxable Value: \$0 > Property Tax information found

Parcel is Vacant

Owner and Taxpayer Information

Owner	CITY OF YPSILANTI BOYS CLUB 1 SOUTH HURON YPSILANTI, MI 48198	Taxpayer	SEE OWNER INFORMATION
--------------	--	-----------------	-----------------------

General Information for Tax Year 2022

Property Class	202 COMMERCIAL-VACANT	Unit	11 CITY OF YPSILANTI
School District	YPSILANTI SCHOOL DISTRICT	Assessed Value	\$0
MAP #	K-2 9-1 (B)	Taxable Value	\$0
INDEX #	0	State Equalized Value	\$0
ALPHA #1	No Data to Display	Date of Last Name Change	01/18/2019
ALPHA #3	No Data to Display	Notes	Not Available
Historical District	Yes	Census Block Group	No Data to Display
ALPHA #2	No Data to Display	Exemption	No Data to Display

Principal Residence Exemption Information

Homestead Date No Data to Display

Principal Residence Exemption	June 1st	Final
2022	0.0000 %	0.0000 %

Previous Year Information

Year	MBOR Assessed	Final SEV	Final Taxable
2021	\$0	\$0	\$0
2020	\$0	\$0	\$0
2019	\$0	\$0	\$0

Land Information

Zoning Code	R-4	Total Acres	4.460
Land Value	\$0	Land Improvements	\$0
Renaissance Zone	No	Renaissance Zone Expiration Date	No Data to Display
ECF Neighborhood	80.CITY OF YPSILANTI-80	Mortgage Code	0000
Lot Dimensions/Comments	No Data to Display	Neighborhood Enterprise Zone	No

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

Legal Description

11-11-09-111-004 REWRITE PER SURVEY 07/27/22 YP CITY 11E-29A-1 COM AT NE COR LOT 60, TH S 00-40-00 W 314.0 FT TO A POB, TH CONT S 00-40-00 W 291.53 FT, TH 664.82 FT ALNG ARC OF CURV-RT-RAD 1986.74 FT - CH N 53-08-10 W 661.72 FT, TH N 00-40-00 E 207.11 FT, TH N 89-50-50 E 243.06 FT, TH S 00-40-00 W 117.0 FT, TH S 82-44-07 E 48.71 FT, TH S 48-35-19 E 140.85 FT, TH N 40-01-36 E 5.0 FT, TH S 48-09-27 E 5.0 FT, TH S 38-16-51 E 46.05 FT, TH S 00-40-00

W 61.50 FT, TH N 89-50-50 E 100.0 FT TO POB. PT OF LOT 60, GILBERTS ADDITION, 3.802 AC. COMBINED ON 07/28/2014 FROM 11-11-09-111-001, 11-11-09-111-003;

Land Division Act Information

Date of Last Split/Combine	01/30/2015	Number of Splits Left	Not Available
Date Form Filed	No Data to Display	Unallocated Div.s of Parent	Not Available
Date Created	01/30/2015	Unallocated Div.s Transferred	Not Available
Acreage of Parent	4.46	Rights Were Transferred	Yes
Split Number	16	Courtesy Split	No
Parent Parcel	No Data to Display		

Sale History

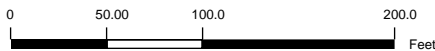
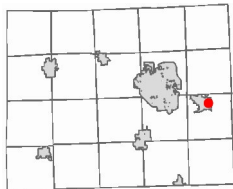
Sale Date	Sale Price	Instrument	Grantor	Grantee	Terms of Sale	Liber/Page	Comments
No sales history found.							

****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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Parcel Map



1: 1,200

9/6/2022



NOTE: Parcels may not be to scale.

The information contained in this cadastral map is used to locate, identify and inventory parcels of land in Washtenaw County for appraisal and taxing purposes only and is not to be construed as a "survey description". The information is provided with the understanding that the conclusions drawn from such information are solely the responsibility of the user. Any assumption of legal status of this data is hereby disclaimed.

Appendix B

Reconnaissance Photographs



SUBJECT PROPERTY FACING NORTH (NORTHERN ADJOINING PROPERTY IN BACKGROUND)



SUBJECT PROPERTY FACING EAST



SUBJECT PROPERTY FACING SOUTH



SUBJECT PROPERTY FACING WEST



SURFICIAL FILL MATERIAL, SOUTH-CENTRAL PORTION OF SUBJECT PROPERTY



APPARENT TRANSFORMER, NORTH-CENTRAL PORTION OF SUBJECT PROPERTY



NORTHERN ADJOINING PROPERTY (302 N. PARK STREET)



NORTHERN ADJOINING PROPERTY (313 HIGH STREET)



NORTHERN ADJOINING PROPERTY (315 HIGH STREET)



NORTHERN ADJOINING PROPERTY (227 N. GROVE STREET)



EASTERN ADJOINING PROPERTY (216 N. GROVE STREET)



EASTERN ADJOINING PROPERTY (410 LOCUST STREET)



EASTERN ADJOINING PROPERTY (214 N. GROVE STREET)



EASTERN ADJOINING PROPERTY (212 N. GROVE STREET)



EASTERN ADJOINING PROPERTY (208 N. GROVE STREET)



EASTERN ADJOINING PROPERTY (206 N. GROVE STREET)



SOUTHEASTERN ADJOINING PROPERTY (106 N. GROVE STREET)



SOUTHERN ADJOINING PROPERTY (103 N. GROVE STREET)



SOUTHERN ADJOINING PROPERTY (204 N. PARK STREET)



WESTERN ADJOINING PROPERTIES (209-213 N. PARK STREET)



WESTERN ADJOINING PROPERTY (223 N. PARK STREET)



NORTHWESTERN ADJOINING PROPERTY (301 N. PARK STREET)

Appendix C
Standard Environmental Record Database Report
(Omitted from BEA Document)

Appendix D

Aerial Photograph Documentation



Handwritten scribble

epscote



INQUIRY #: 3973639.9

YEAR: 1937

| = 500'





INQUIRY #: 3973639.9

YEAR: 1940

|—————| = 500'





INQUIRY #: 3973639.9

YEAR: 1949

| = 500'





INQUIRY #: 3973639.9

YEAR: 1956

| = 500'





INQUIRY #: 3973639.9

YEAR: 1961

| = 500'





INQUIRY #: 3973639.9

YEAR: 1967



— = 500'



INQUIRY #: 3973639.9

YEAR: 1978

| = 600'





INQUIRY #: 3973639.9

YEAR: 1985

|—————| = 500'





INQUIRY #: 3973639.9

YEAR: 1993

| = 600'





INQUIRY #: 3973639.9

YEAR: 2000

| = 500'





INQUIRY #: 3973639.9

YEAR: 2005



| = 500'



INQUIRY #: 3973639.9

YEAR: 2006

| = 500'





INQUIRY #: 3973639.9

YEAR: 2009

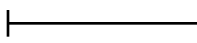
| = 500'





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YEAR: 2010

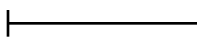
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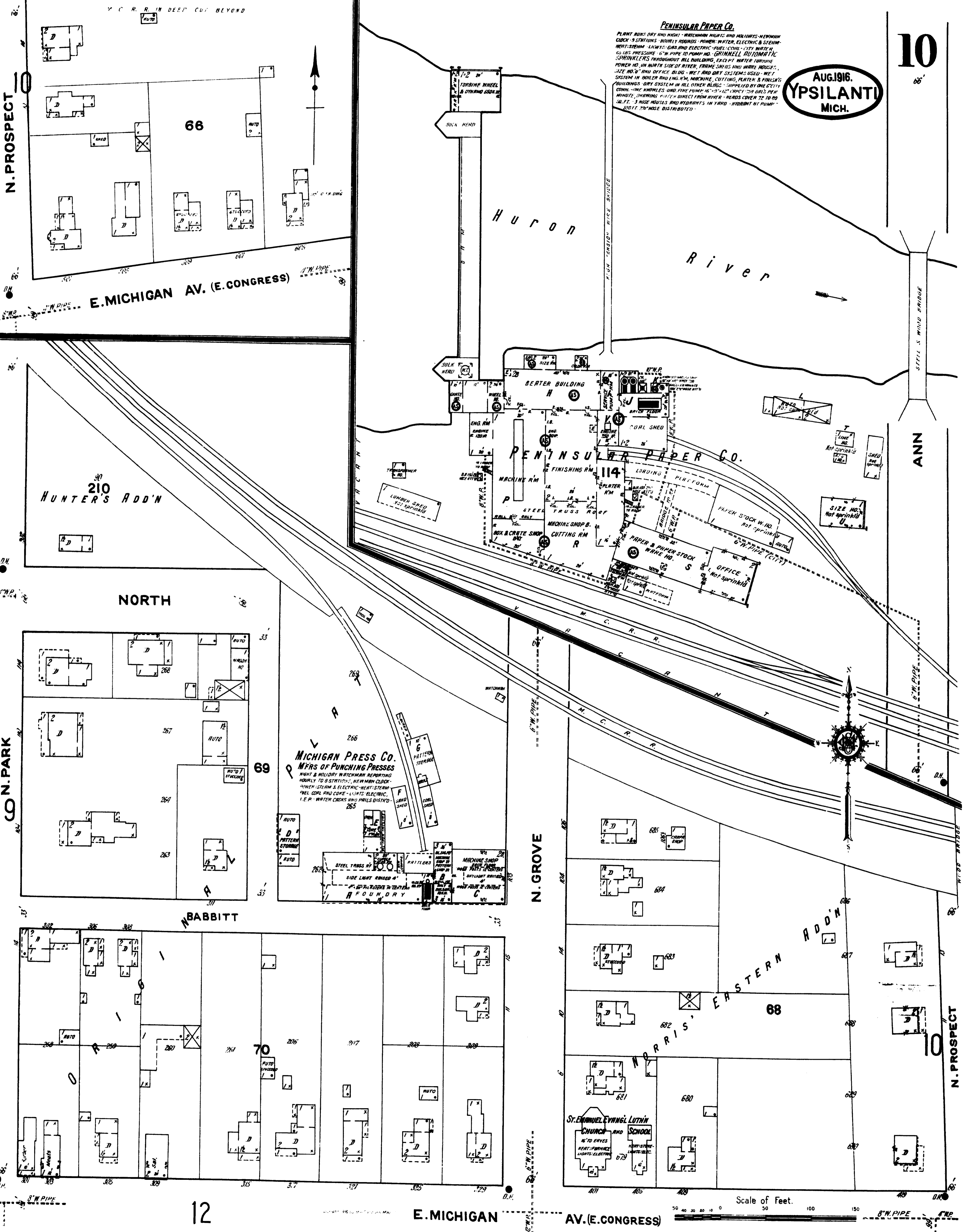
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 = 500'



Appendix E

Fire Insurance Map Documentation

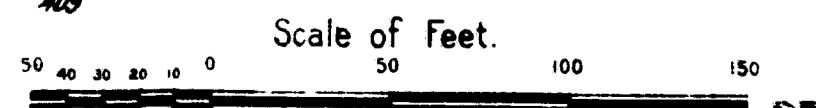


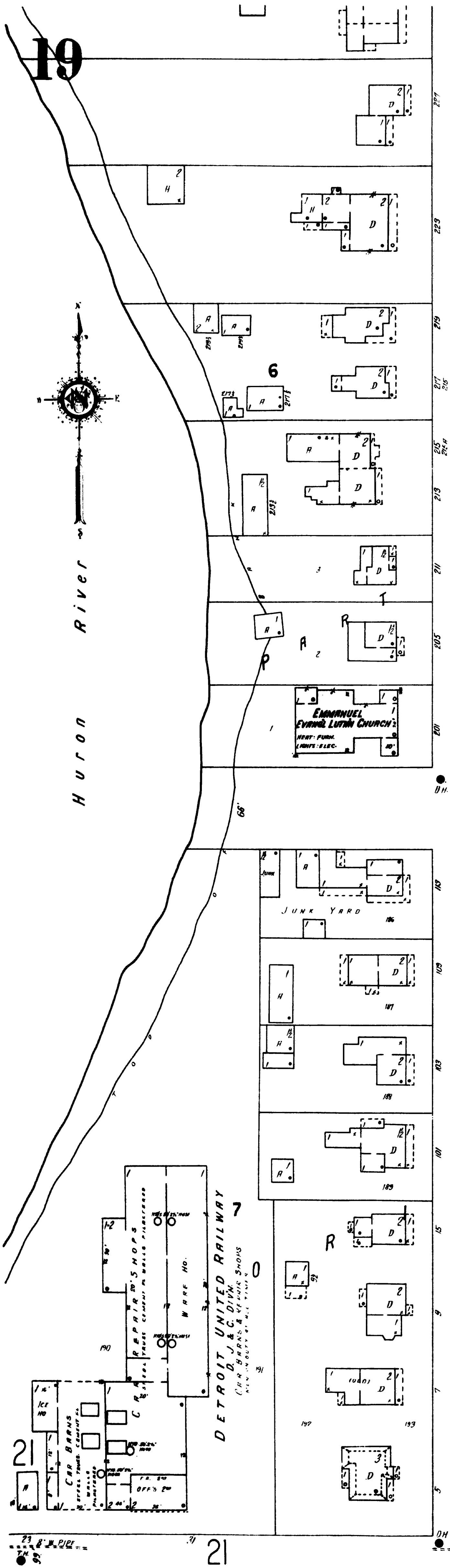
10
 66'
 AUG. 1916.
YPSILANTI
 MICH.

PENINSULAR PAPER CO.
 PLANT RUNS DAY AND NIGHT - WATCHMAN NIGHTS AND POLICEMEN - NEWMAN
 CLOCK - 8 STATIONS - NIGHTLY REPORTS - PAPER, WATER, ELECTRIC & STEAM
 HEAT SYSTEM - LIGHTS - GAS AND ELECTRIC - FUEL COILS - CITY WATER -
 60 LBS PRESSURE - 6\"/>

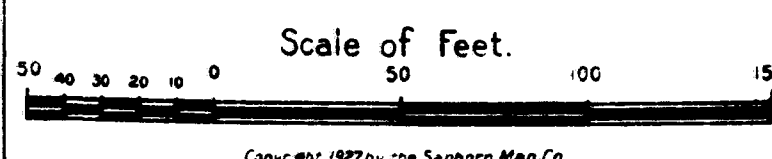
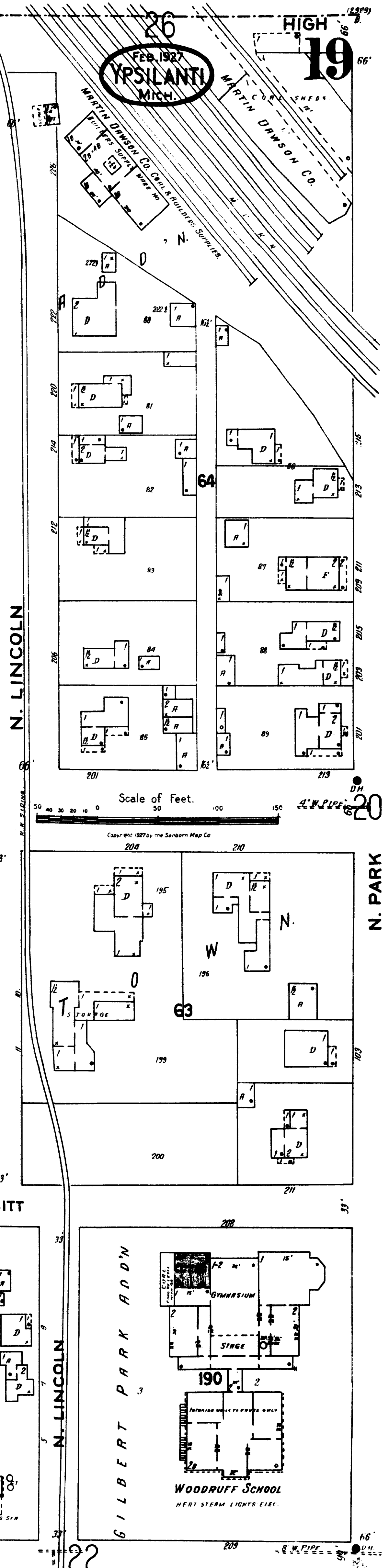
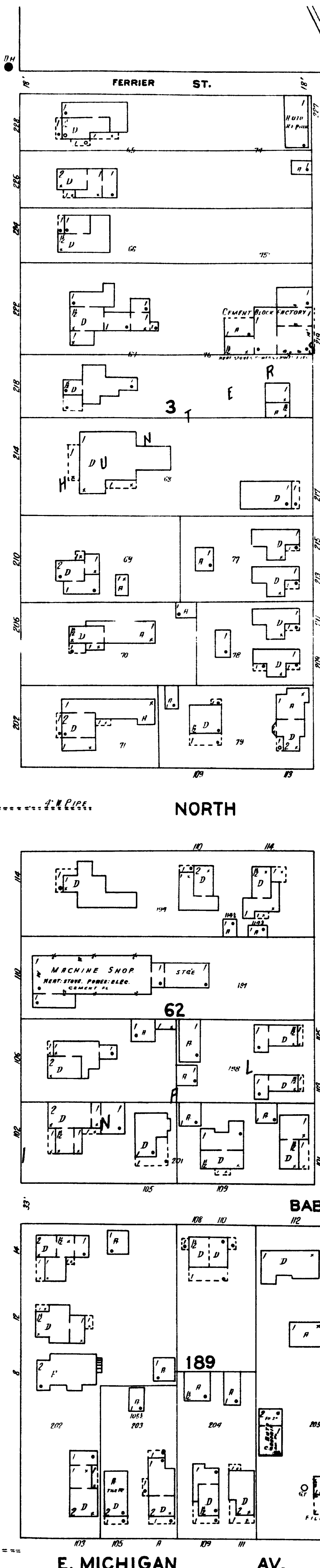
MICHIGAN PRESS CO.
 MFRS OF PUNCHING PRESSES
 NIGHT & HOLIDAY WATCHMAN REPORTING
 HOURLY TO 8 STATIONS - NEWMAN CLOCK
 STEAM & ELECTRIC HEAT SYSTEM
 FUEL COIL AND COKE - LIGHTS ELECTRIC
 I.E.P. - WATER CRACKS AND PAIRS DISTRICT

ST. EMMAUEL EVNGL LUTH'N
 CHURCH AND SCHOOL
 4\"/>





18
N. RIVER
G
NORTH
F
N. LINCOLN
E. MICHIGAN AV.



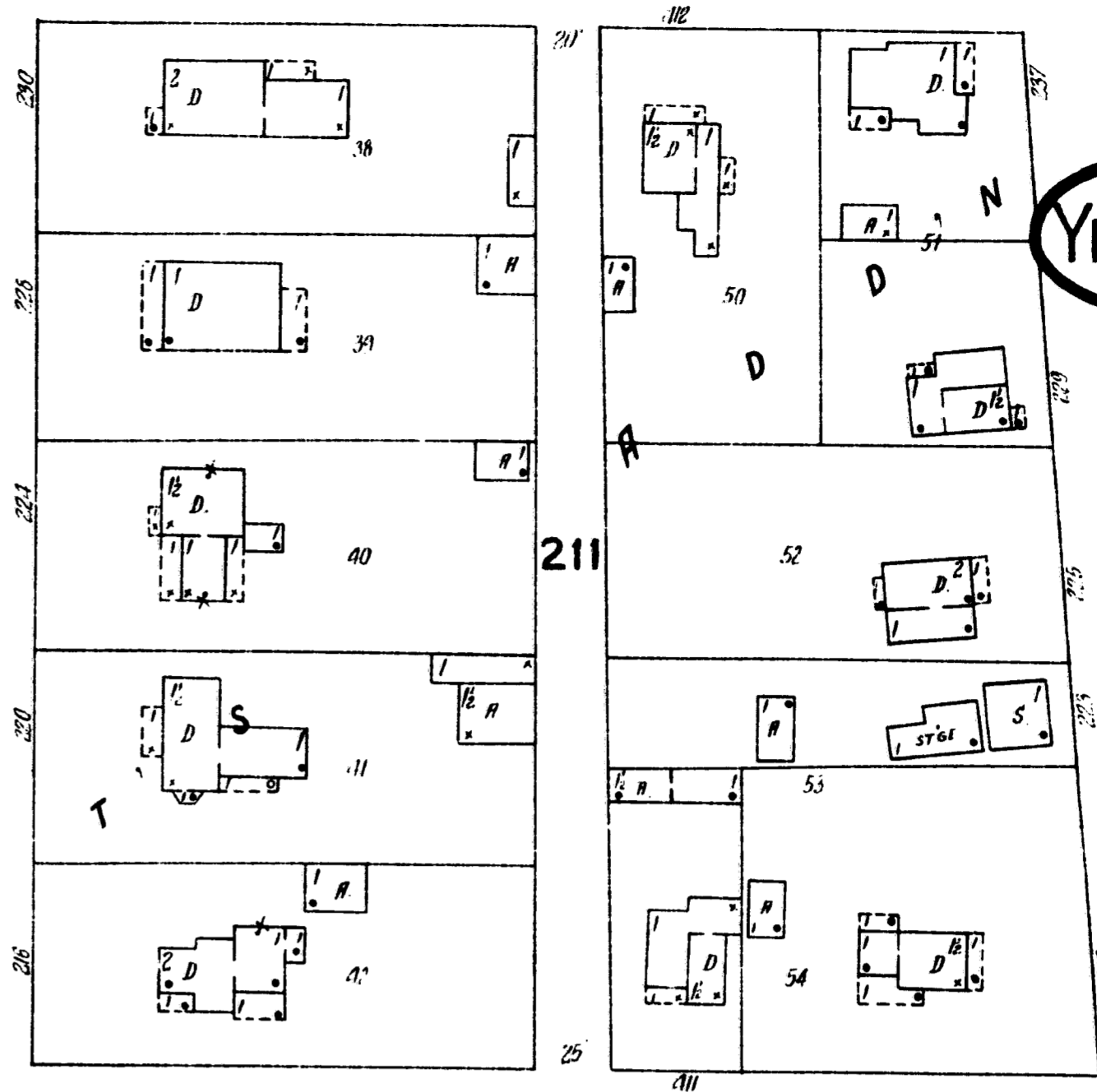
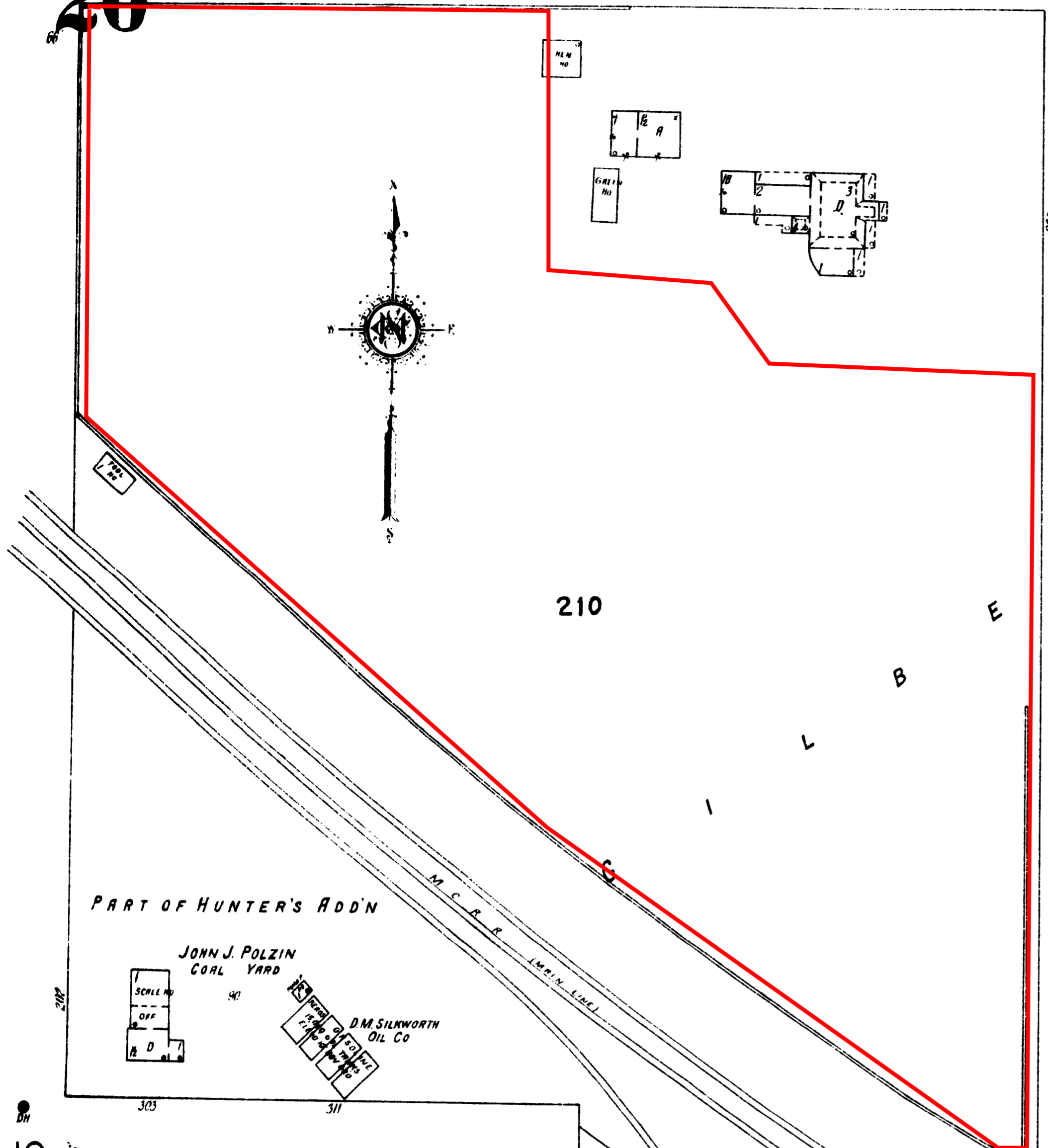
20

HIGH 26

20

FEB. 1927
YPSILANTI
MICH.

26



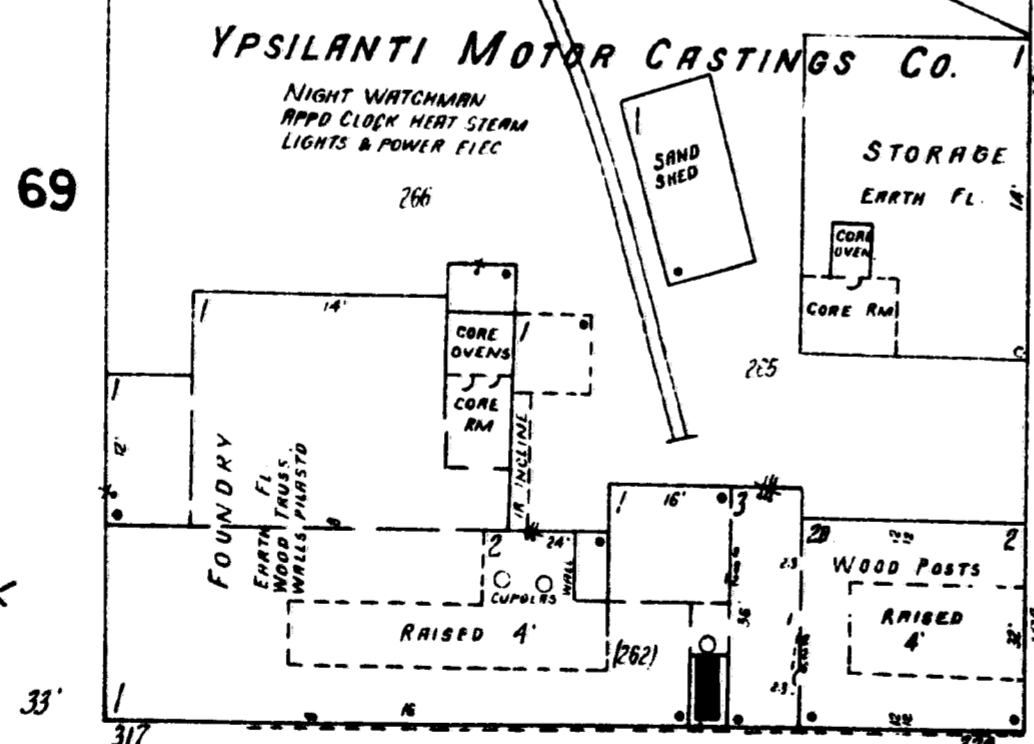
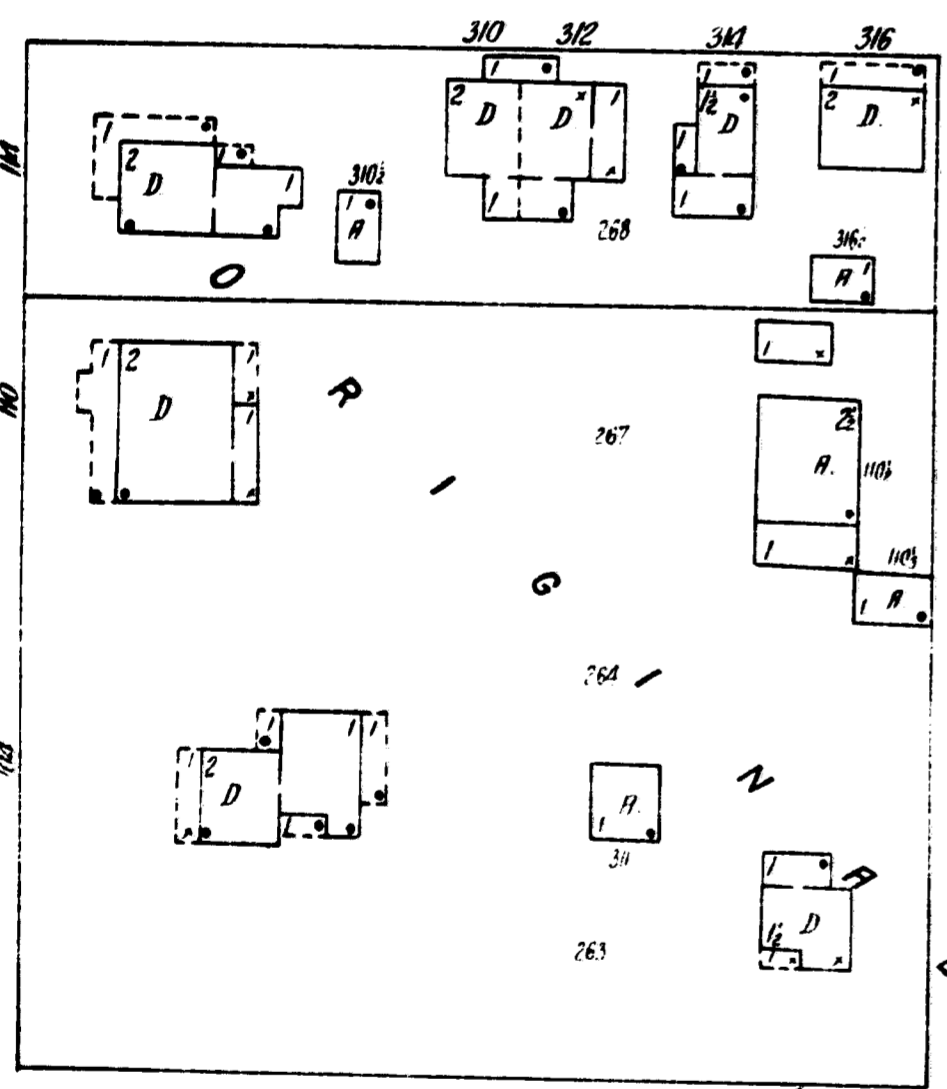
LOCUST

N. GROVE
66 ft wide

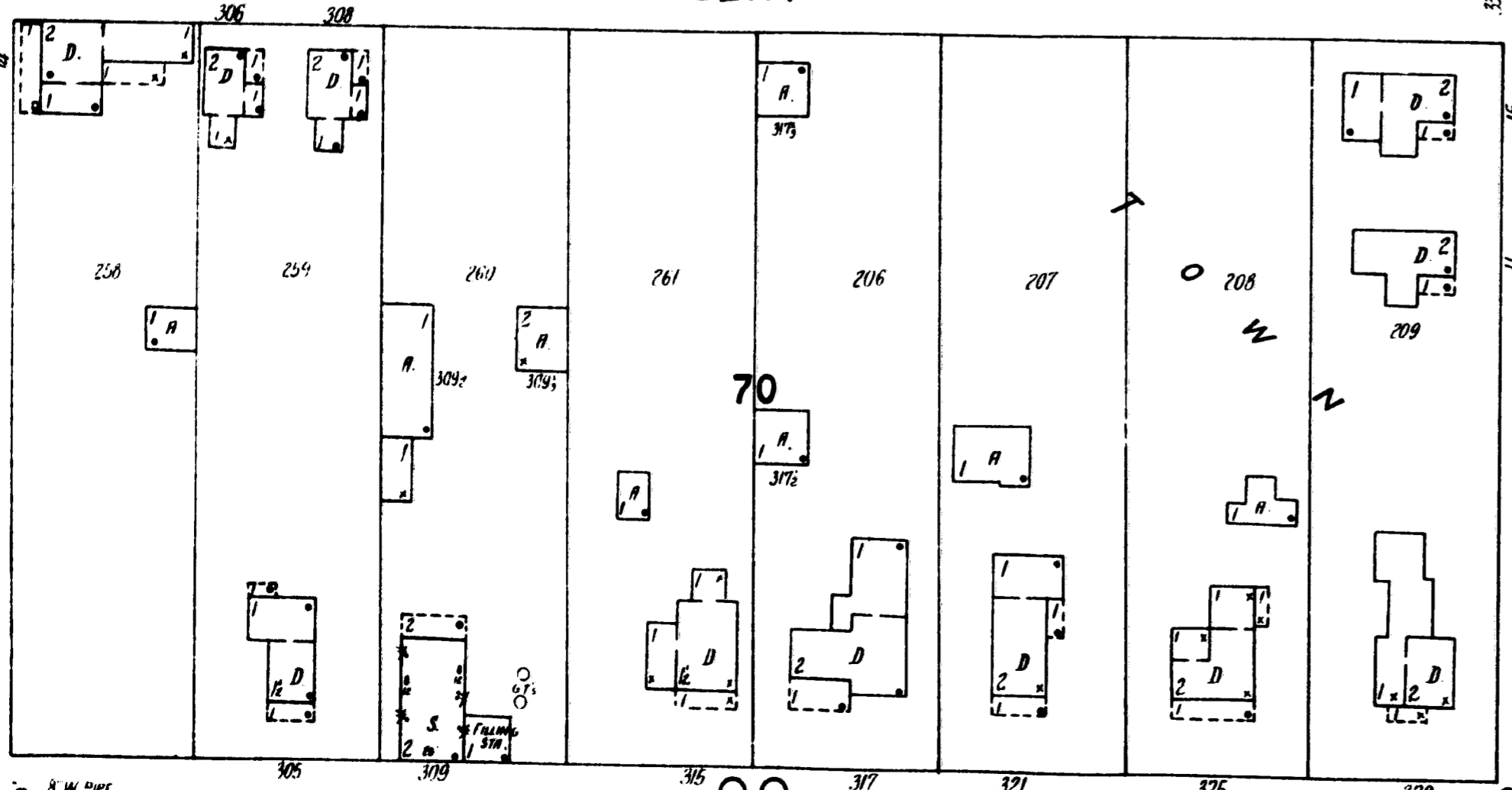
N. PROSPECT

N. PARK

NORTH

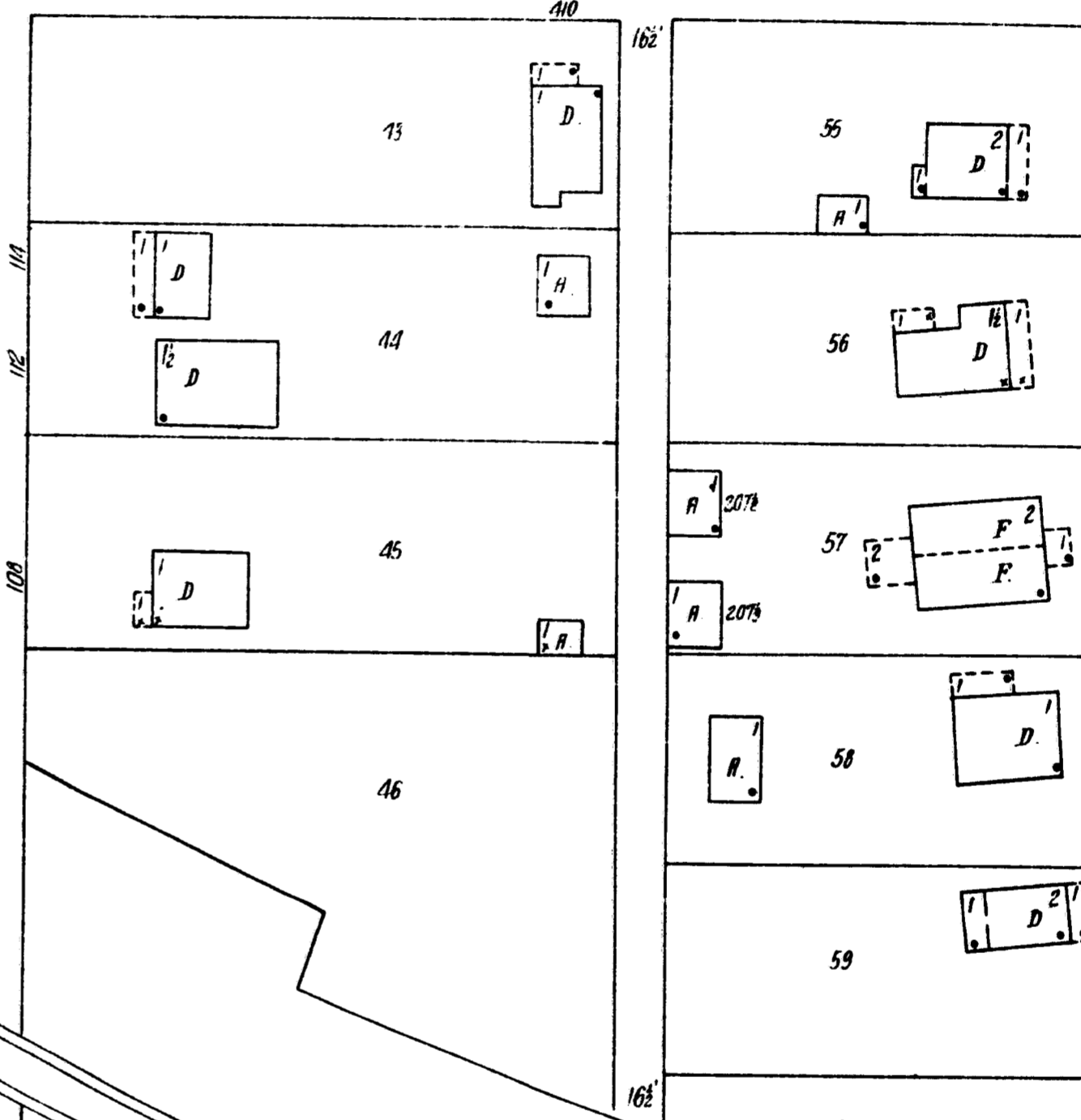


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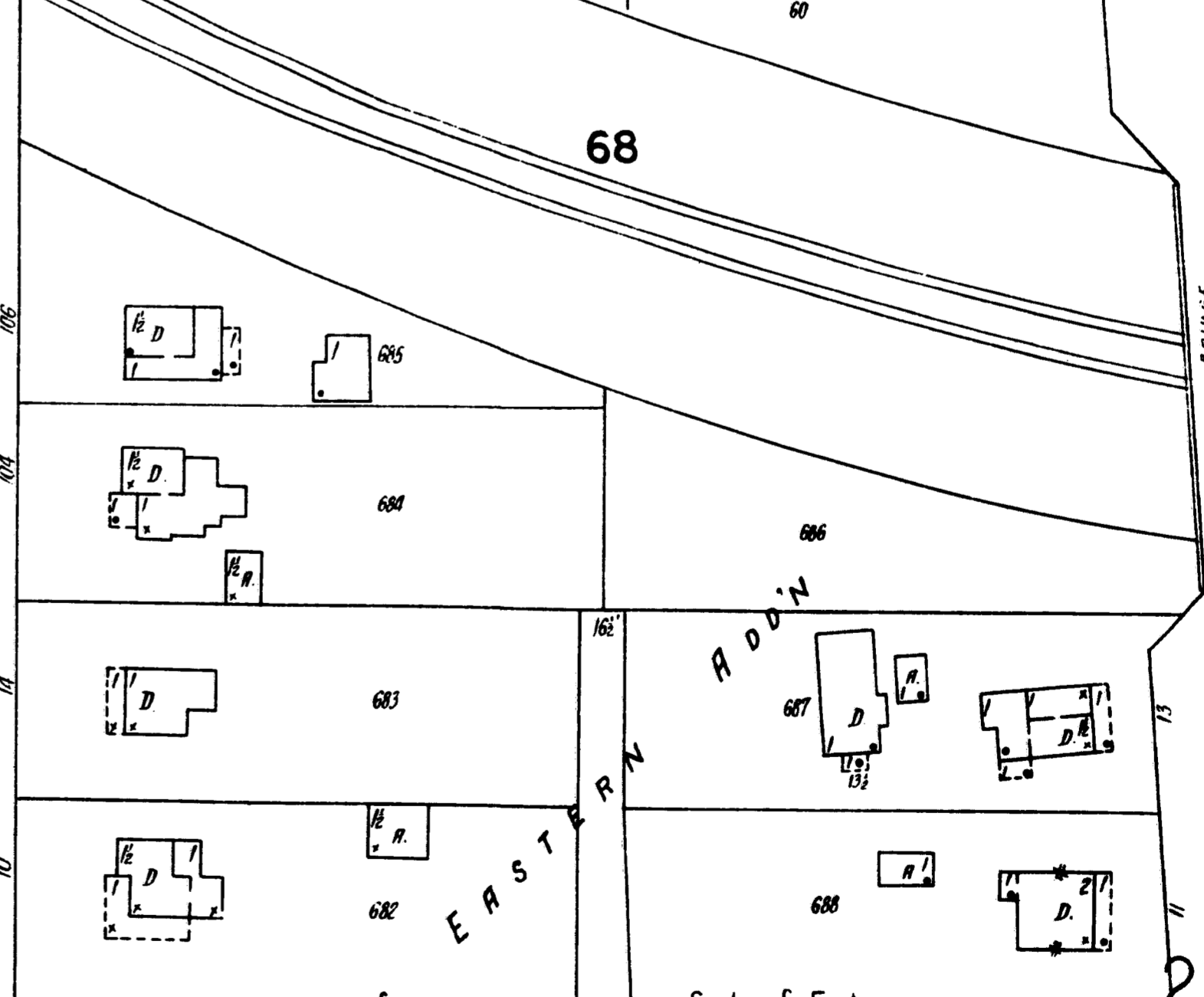


22

E. MICHIGAN

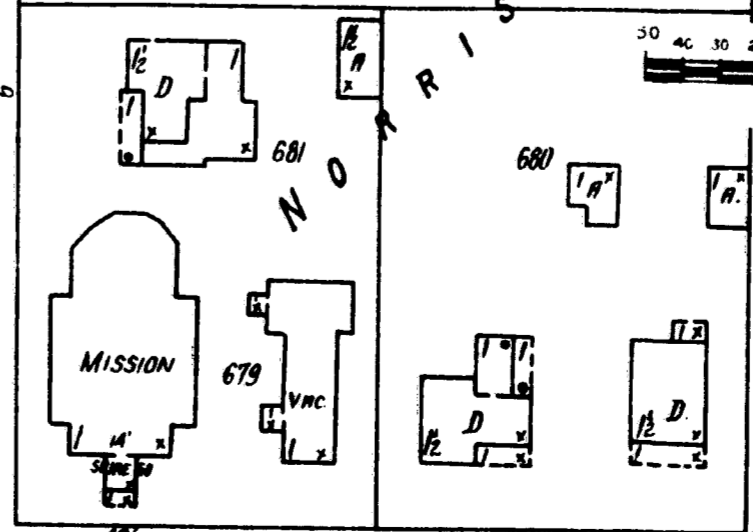


68



Scale of Feet.

Copyright 1927 by the Sanborn Map Co



23

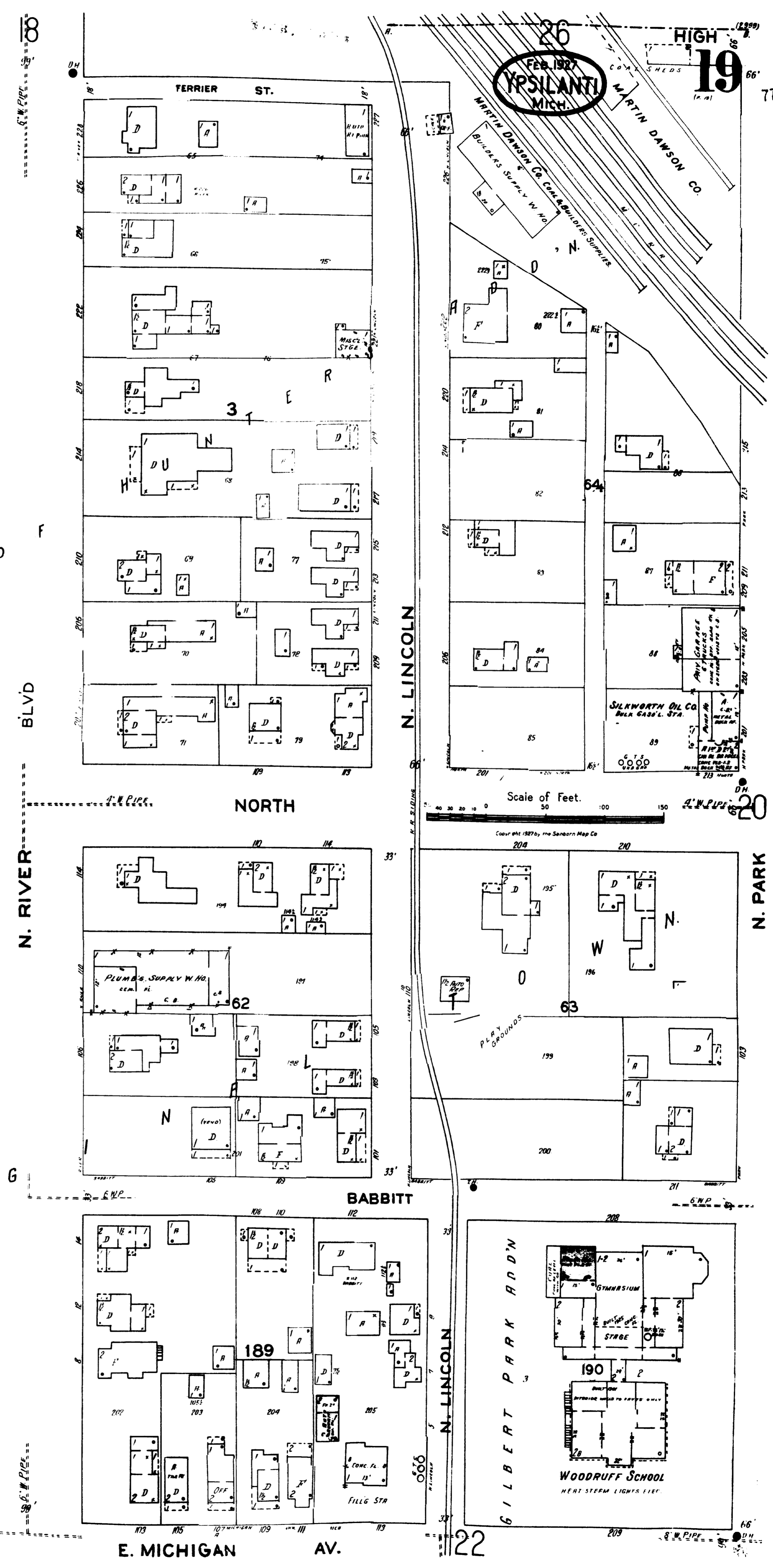
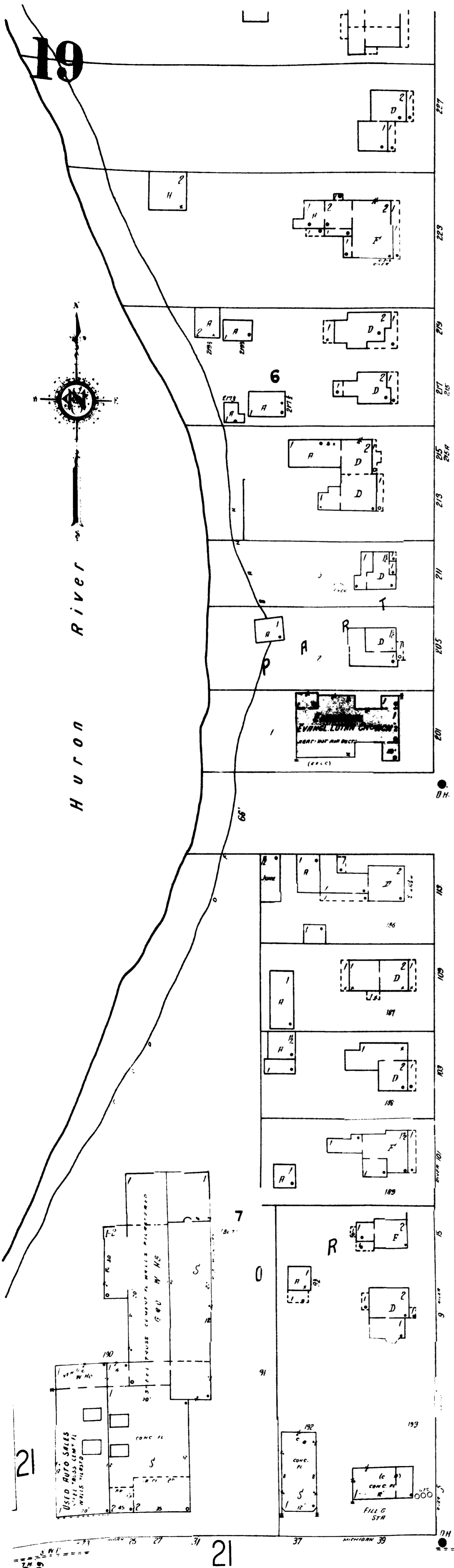
AV.



FEB. 1927
YPSILANTI
MICH.

SCALE 100 FT. TO AN INCH

Scale 100 Ft to One Inch.
0 100 200 300
Copyright 1927 by the Sanborn Map Co



20

HIGH 26

20

FEB. 1927
YPSILANTI
MICH.

26

MICH. 524



210

E

B

L

I

G

PART OF HUNTER'S ADDN

SILK WORTH
OIL CO.
BULK GASOL & OIL STR

NORTH

19

N. GROVE

LOCUST

N. PROSPECT

66 ft wide

68

BABBITT

E. MICHIGAN

23

PROSPECT CT.

Scale of Feet.

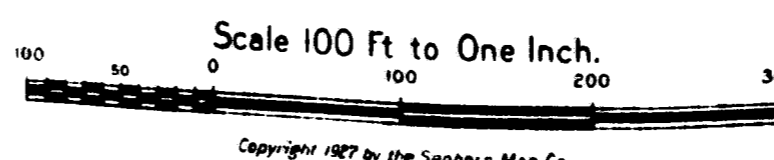
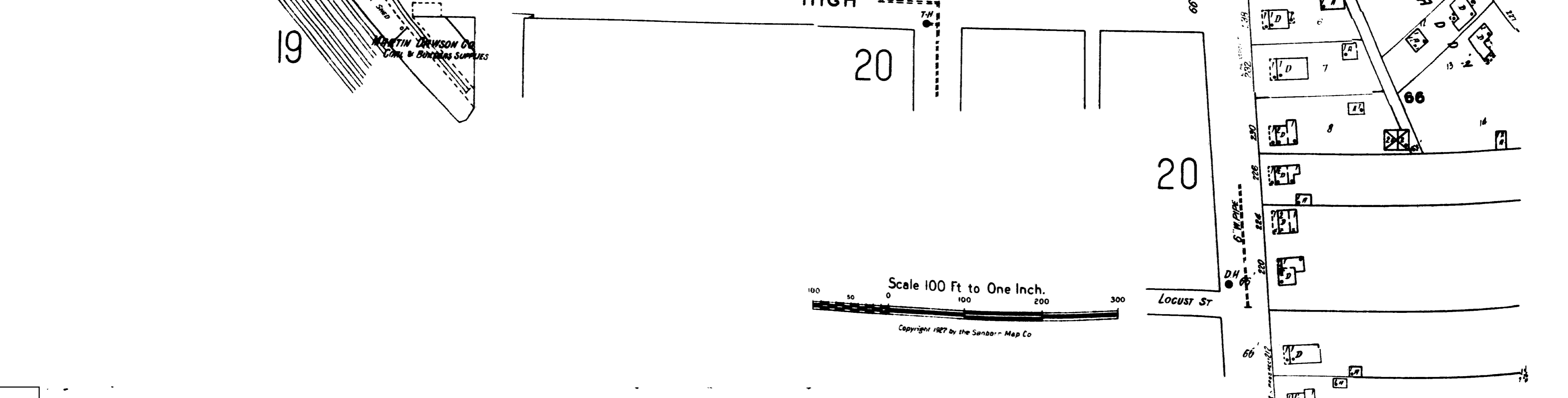
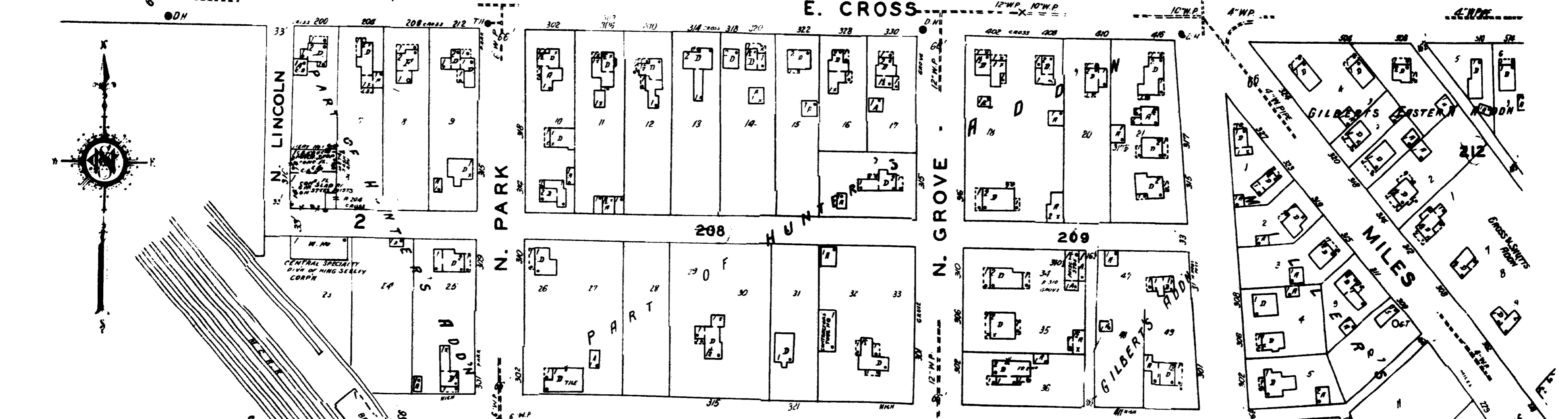
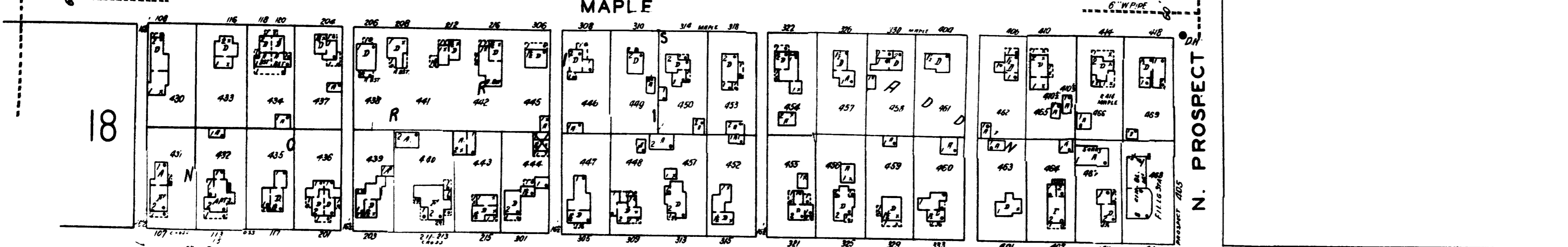
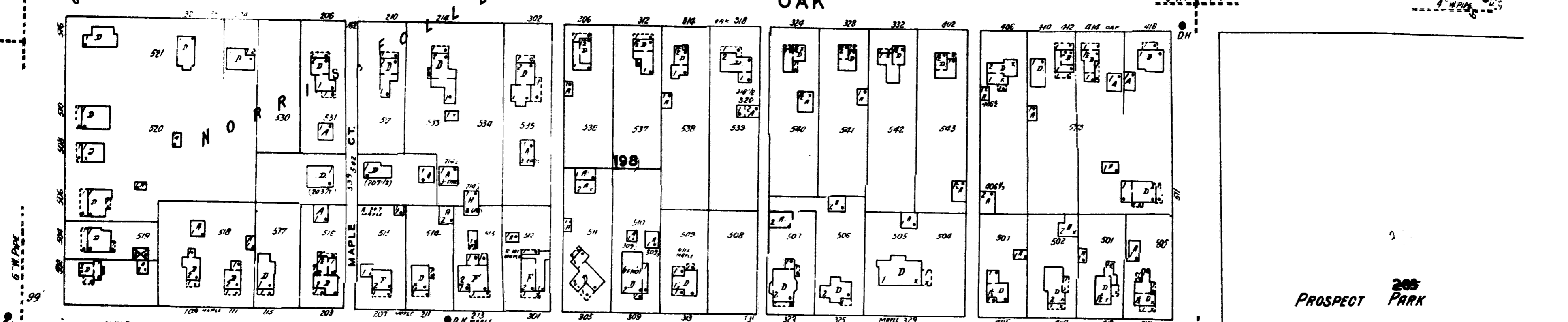
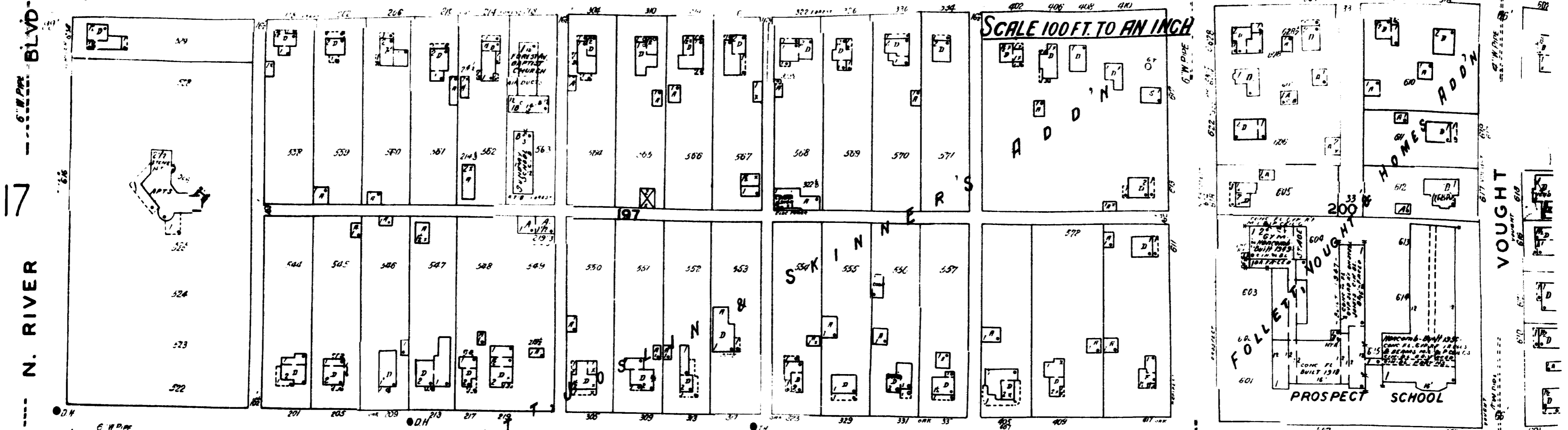
Copyright 1927, The Searson Map Co

26

30

26

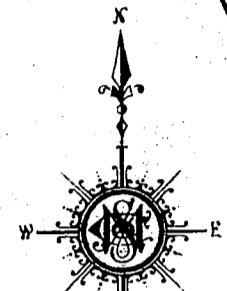
E. FOREST AV.



Copyright 1927 by the Sanborn-Map Co

1950

19



HURON RIVER

MUSIC M.B. -
FIBRE SLAB
ON METAL
C.B. DR. EST.
F. WARE

EMMANUEL EVANGELICAL
LUTHERAN CHURCH
REPT. 1. 101 112 113

PARK

DRY CLEANING
WASHING
MIS. W. HO.

HILL ST.

FERRIER ST.

NORTH

E. MICHIGAN AV.

FEB 1937
YPSILANTI
MICH.

19

MARTIN DAWSON CO.
BUILDERS SUPPLY CO.
COR. SAWYER SUPPLY

SILK WORTH OIL CO.
BULK GASOL. STA.
NO. 203 PARK

PLAY GROUNDS

WOODRUFF SCHOOL

GILBERT PARK ADDN

N. LINCOLN

N. RIVER

BABBITT

N. LINCOLN

N. PARK

Scale of Feet.

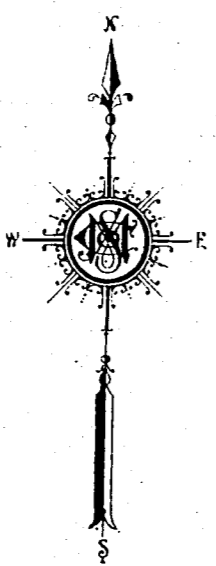
Copyright 1927 by the Sanborn Map Co.

20

HIGH 26

20

FEB. 1927
YPSILANTI
MICH.



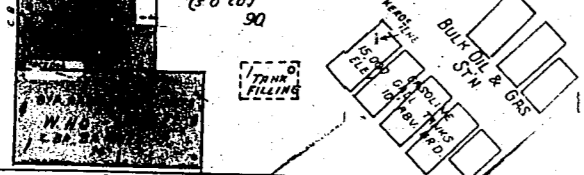
26

210

LOCUST

PART OF HUNTER'S ADD'N

GULF OIL CORP.
BULK GASOL. & OIL
STA.
(P.O. CO.)

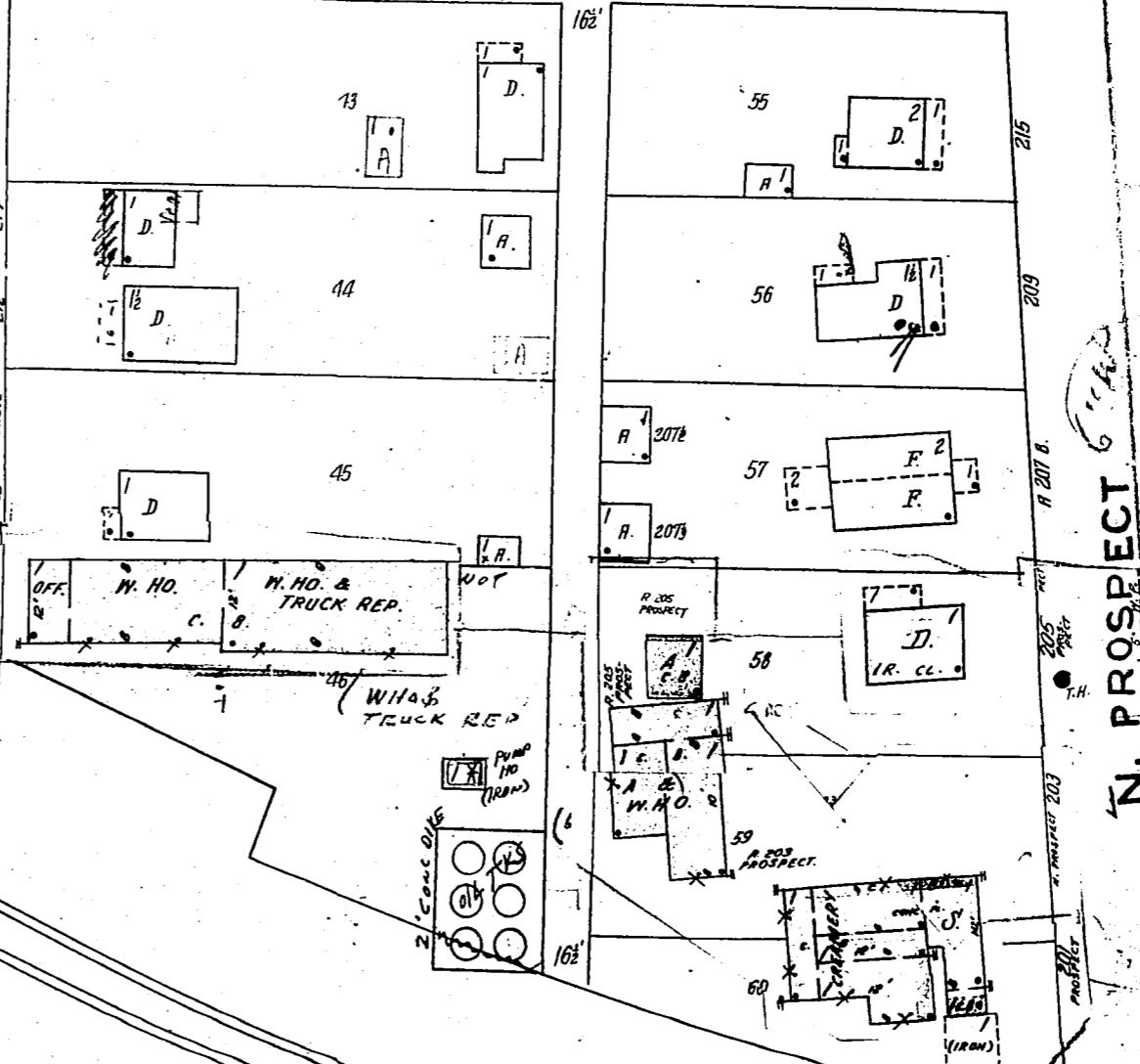
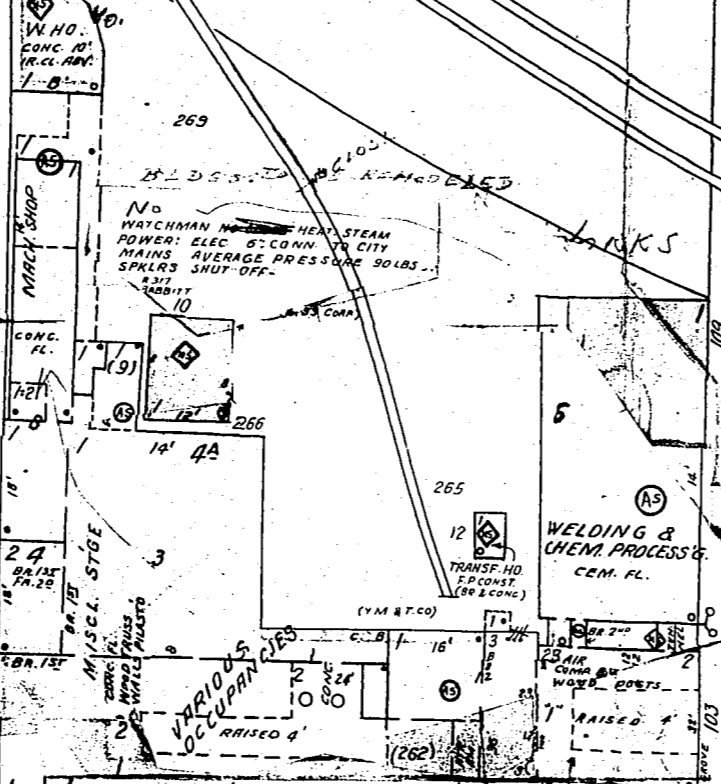
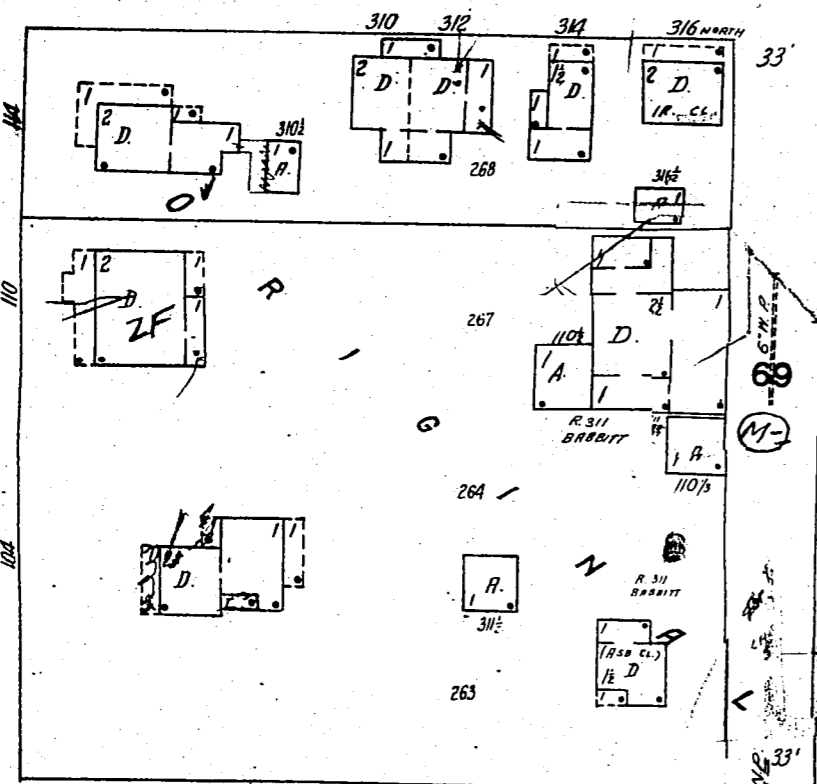


NORTH

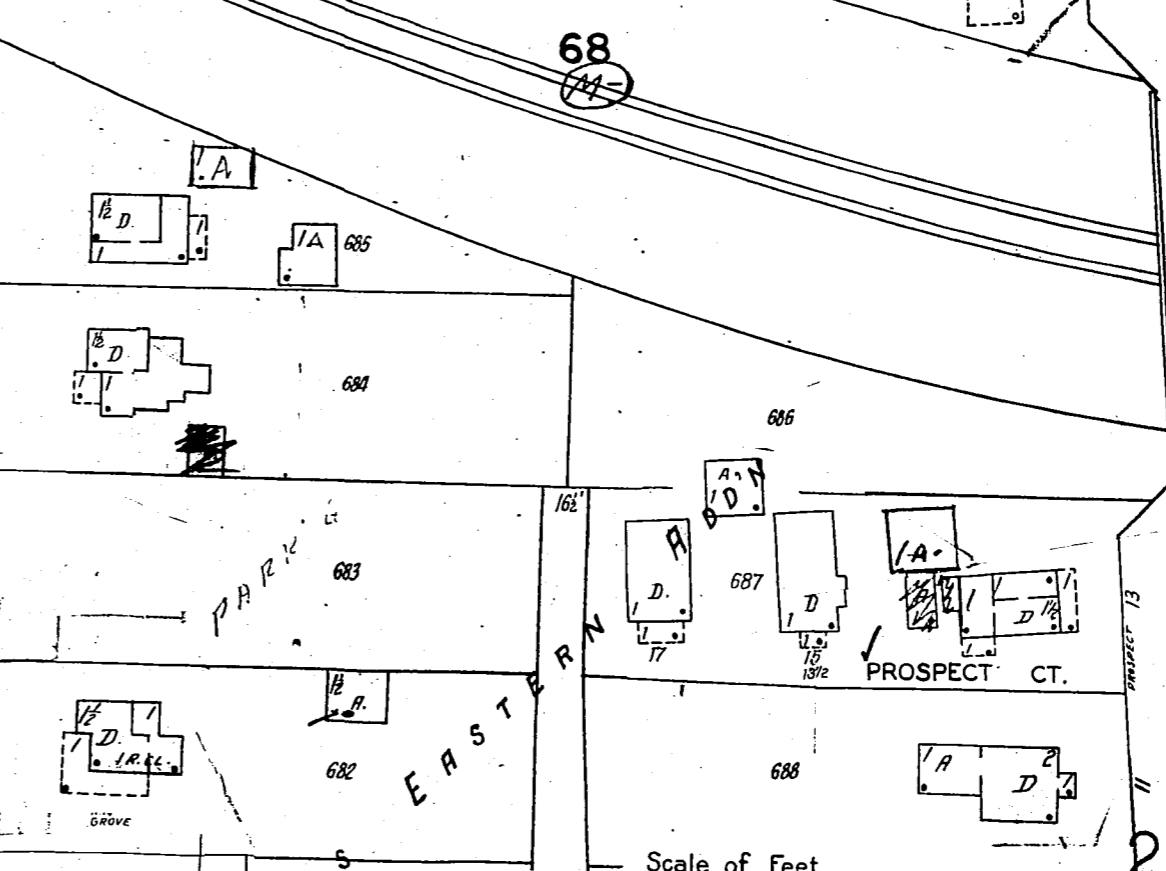
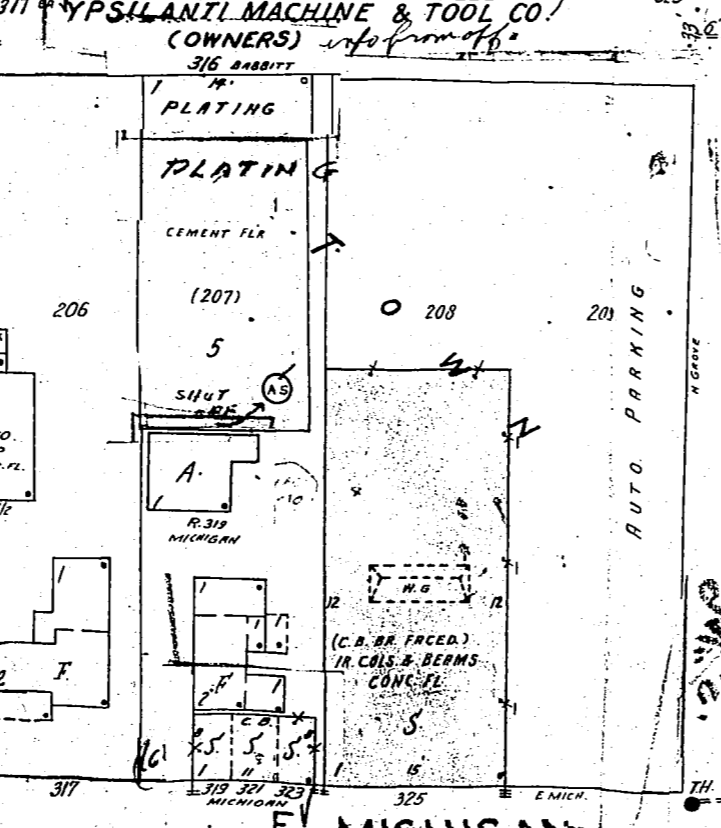
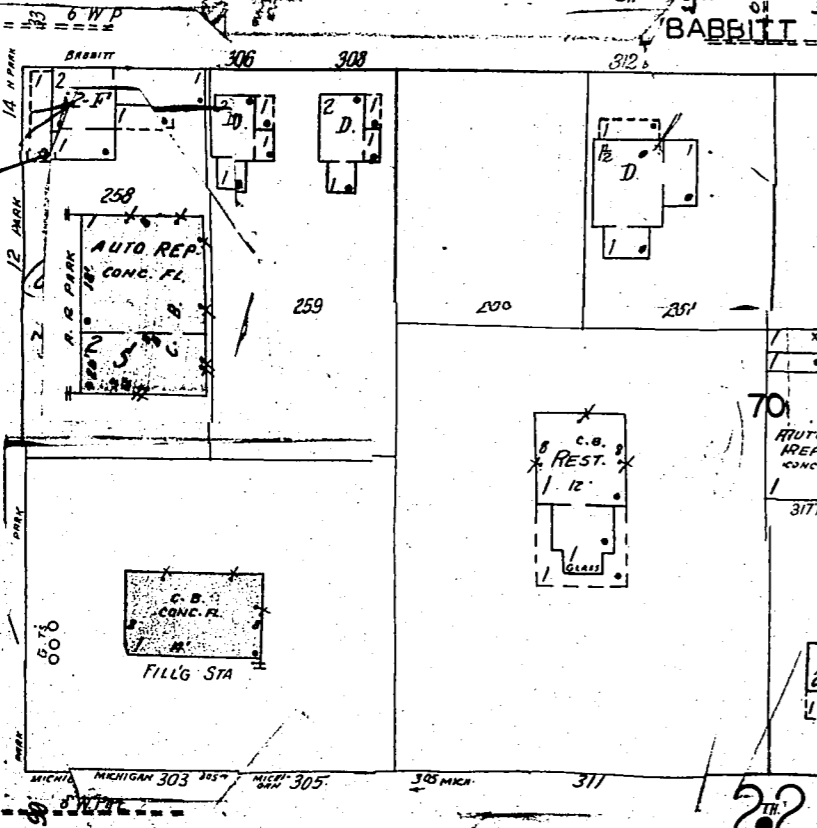
N. PARK

N. GROVE

N. PROSPECT



68



Scale of Feet.



JESUS NAME
CATHOLIC
CHURCH

JESUS NAME
CATHOLIC
CHURCH

JESUS NAME
CATHOLIC
CHURCH

E. MICHIGAN

AV.

23

26

30

26

N. RIVER

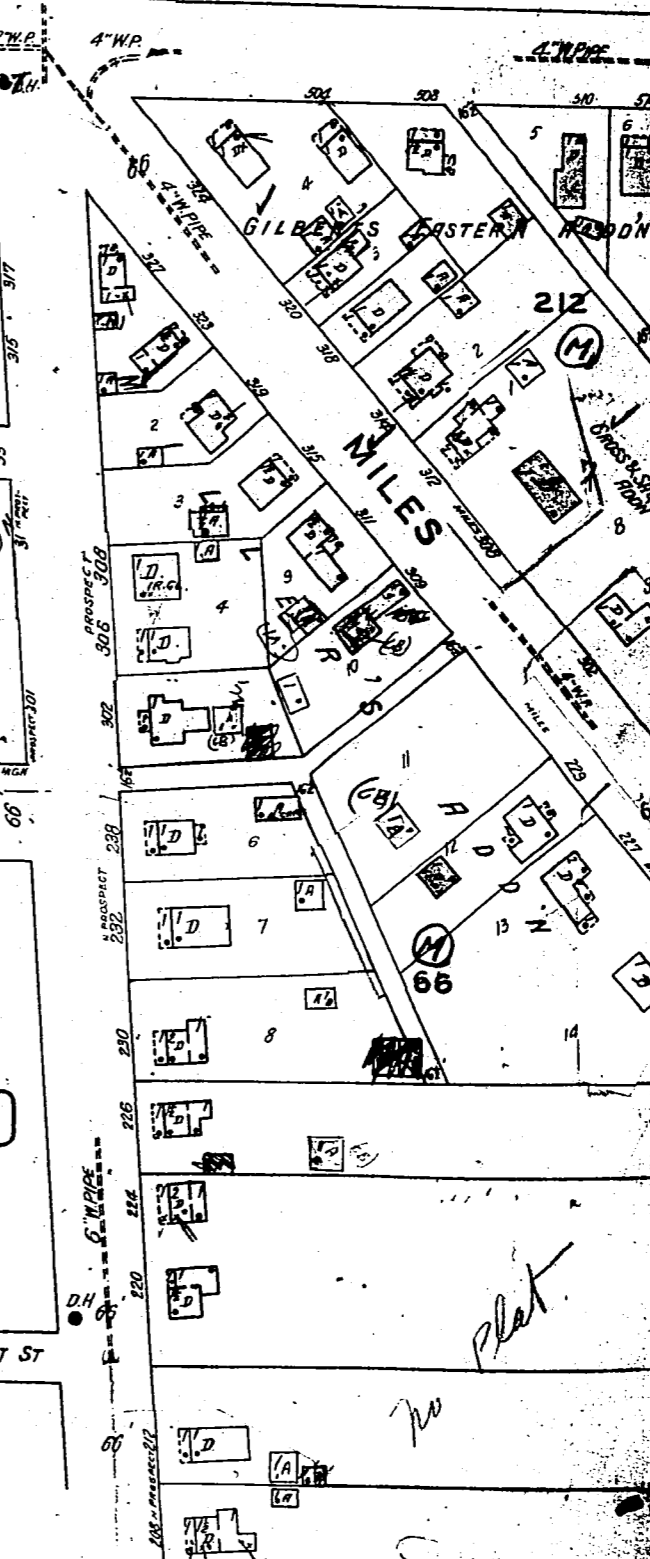
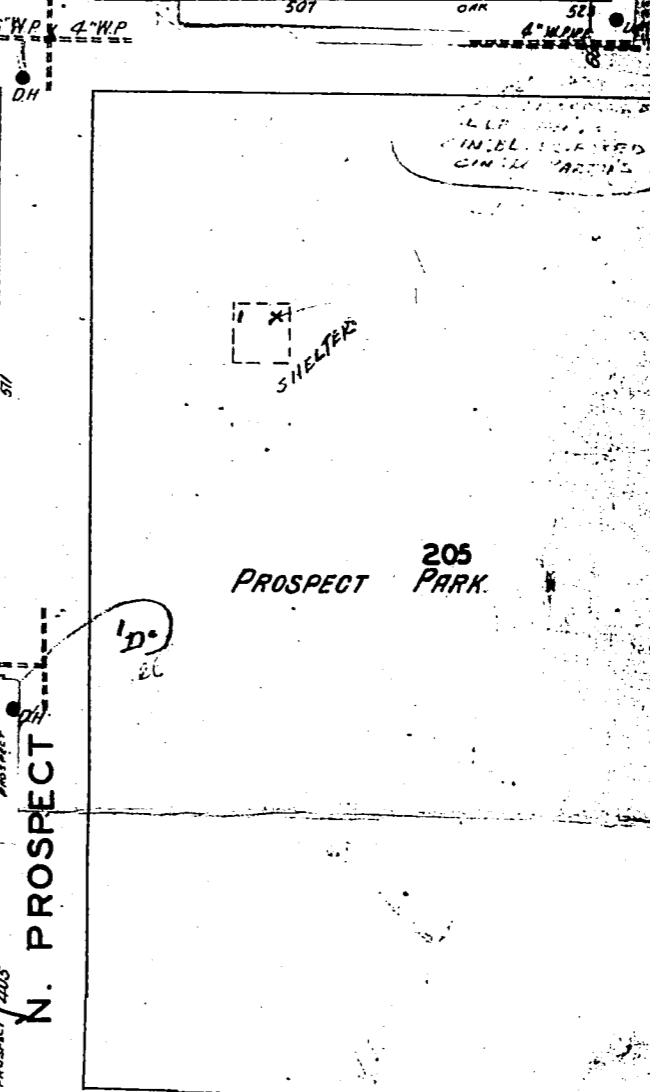
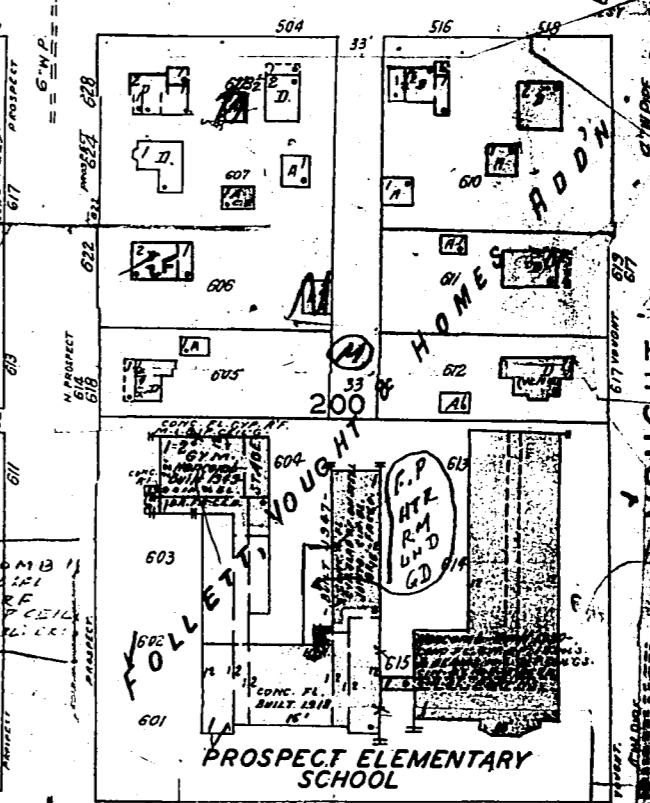
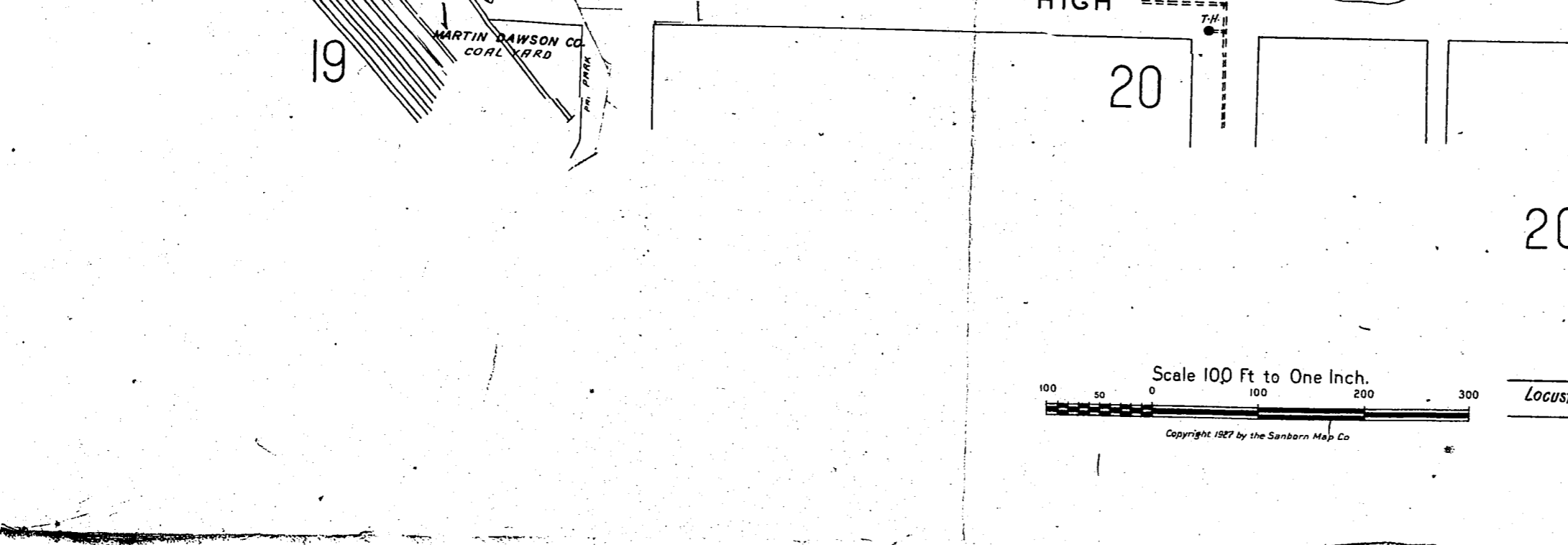
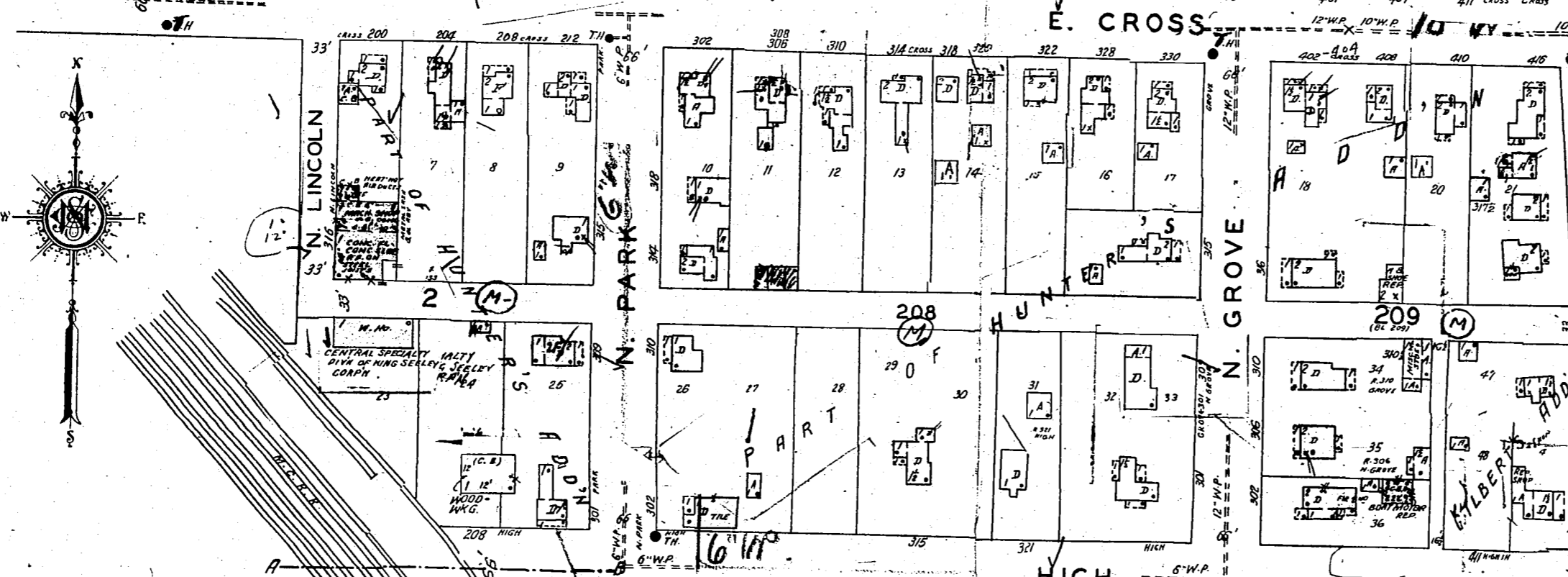
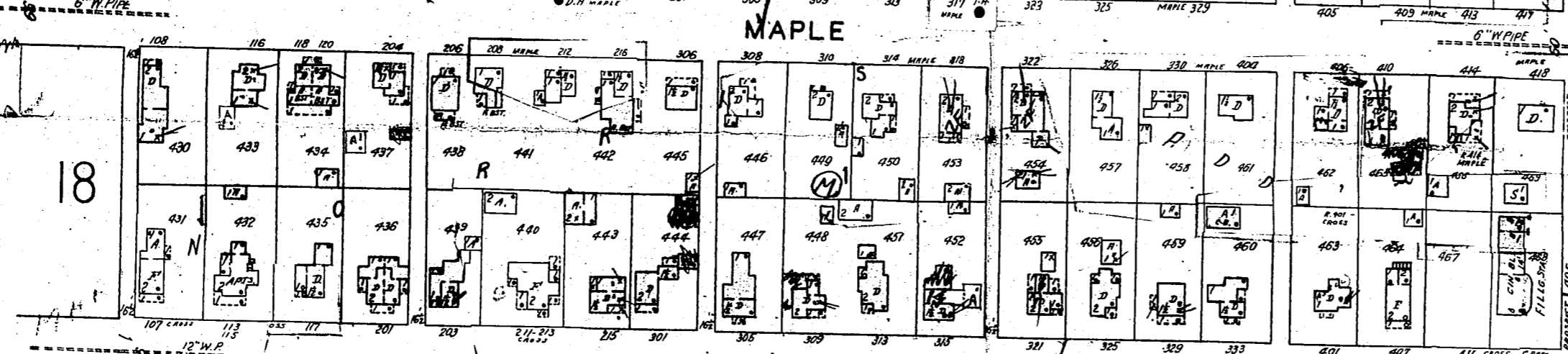
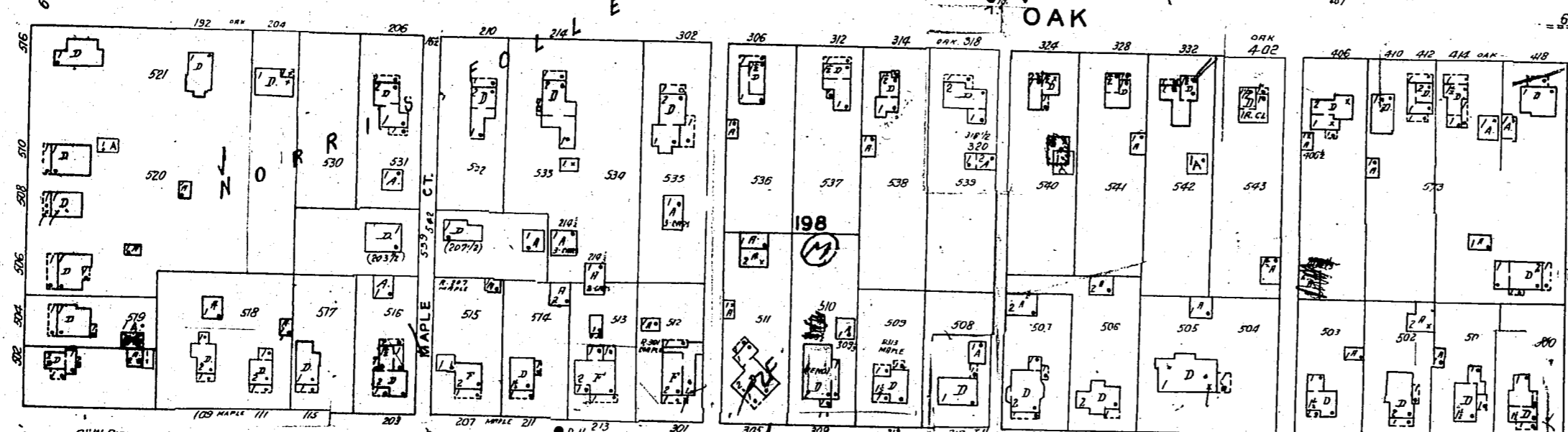
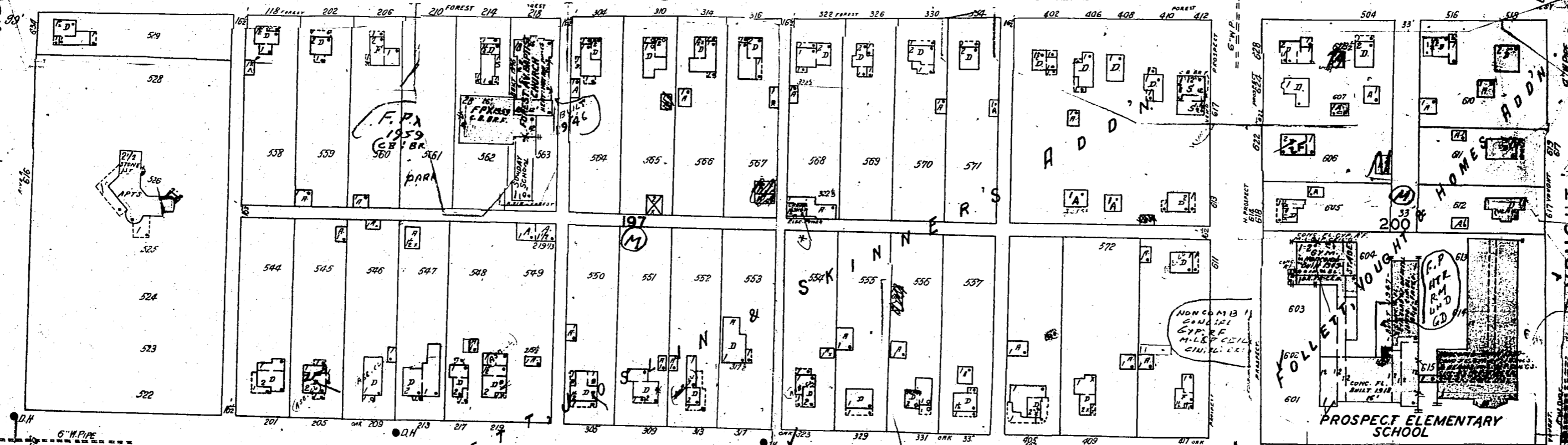
E. FOREST AV.

17

18

18

18



Appendix F

Other Relevant Documentation

Client Questionnaire Responses

1. Respondent Name

Shannon Morgan

2. **Respondent Title **

Manager

3. **Respondent Company **

Renovare Ypsilanti Homes

4. Date

2022-08-31

5. Full Subject Project Address (Address, City, State)

220 North Park Street, Ypsilanti MI 48198

6. **AKT Peerless Project Number **

10627F2

7. Was a search of land title records (or judicial records) completed to identify environmental liens filed or recorded against the subject property?

Yes

8. Please provide details of land title records (or judicial records) completed to identify environmental liens filed or recorded against the subject property.

Title ordered through Fidelity Title no environmental liens reported

9. Did the recorded land title records search reveal Activity Use Limitations (e.g., engineering controls, land use restrictions, and/or institutional controls) that limit the allowable use of the subject property?

Yes

10. Please provide details of any recorded land title records search reveal Activity Use Limitations (e.g., engineering controls, land use restrictions, and/or institutional controls) that limit the allowable use of the subject property.

Recorded easements are being discharged with MDOT and Norfolk and Southern RR

11. **Do you have any specialized knowledge or experiences related to the subject property or nearby properties? **

No

12. Do you have actual knowledge regarding environmental lien or Activity Use Limitations (e.g., Commercial-use Deed Restriction) associated with the subject property?

No

13. Does the purchase price being paid for this property reasonably reflect the fair market value of the subject property?

Yes

14. Are you aware of information about the subject property that would help the environmental professional identify chemical or petroleum releases or threatened releases?

No

15. What is the past use of the subject property?

Formerly demolished Boys and Girls Club

16. Do you know of specific chemicals that are present or were once present at the subject property?

No

17. Do you know of spills or other chemical releases that have occurred at the subject property?

No

18. Do you know of any environmental cleanups that have taken place at the subject property?

No

19. Are you aware of obvious indicators that point to the presence or likely presence of contamination at the subject property?

No

20. Why did you retain AKT Peerless to perform this Phase I ESA (e.g., purchase, refinance, insurance purposes, etc.)?

Purchase

21. Are there any special terms and conditions that apply to the completion of this Phase I ESA (e.g., access limitations, confidentiality, etc.)?

No

22. **Do you have access to the following? **

Surveys (ALTA, site plan, boundary, etc.), preferably in CAD format, Land title records (e.g., Preliminary Title Reports, Title Commitments, Deed Restrictions, Condition of Title, Title Abstracts, etc.)

23. Use this link to upload files for our review

https://api.typeform.com/responses/files/428e2d06f93af1b8506a78d13aed5ebd43cfeaeb76d12506deff52fa1b712806/Commitment_971100.pdf

24. Is there any other information you would like to provide AKT Peerless regarding the subject property?

No

25. Token

8g9k1e8k9e8mbjsq88g9koboi7mlho0l

26. Submitted at

2022-09-01 00:21:25 +0000 UTC

[Click here to view results](#)

Knowledgeable Party Questionnaire Responses

1. Respondent Name

Christopher Jacobs

2. **Respondent Title **

Community Development Manager

3. **Respondent Company **

City of Ypsilanti

4. Please provide your email

cjacobs@cityofypsilanti.com

5. Please provide your phone number

+17344509610

6. Date

2022-08-31

7. Subject Property Address (Address, City, State)

220 N Park

8. **AKT Peerless Project Number **

10627F2

9. How long have you been familiar with the subject property?

3 years

10. Please list the names of previous occupants of the property.

City of Ypsilanti

11. Have previous environmental assessments of the subject property been performed?

Unknown

12. Has the subject property ever been used for industrial purposes?

Unknown

13. Has the subject property been used for the following?

None of the above

14. Have any of the following been used or stored at the subject property?

None of the above

15. Has fill material (e.g., soil, topsoil, sand, dirt, gravel, crushed concrete or brick, foundry sand, etc.) ever been brought onto the subject property?

No

16. Have hazardous substances, petroleum products, waste materials, tires, batteries, drums, or other materials been dumped, buried, and/or burned at the subject property?

Unknown

17. Have you ever observed any of the following at the subject property?

None of the above

18. What fuel source is used to heat structures at the subject property?

Not applicable (no heated structures)

19. Please select the potable water service associated with the subject property.

None of the above

20. Please select the sanitary waste disposal utilized at the subject property.

None of the above

21. **Are you aware of any of the following administrative controls filed or recorded against the subject property? **

None of the above

22. Are you aware of subsurface contamination from hazardous substances or petroleum products at the subject property?

No

23. **Are you aware of any of the following engineering controls installed to prevent exposure from contamination at the subject property? **

None of the above

24. Does the subject property discharge waste water (other than precipitation) into the sewer system (storm or sanitary)?

No

25. Are there any past, threatened, or pending lawsuits or administrative proceedings concerning a release of hazardous substances or petroleum products involving the subject property?

No

26. Have polychlorinated biphenyls (PCBs) been detected in electrical or hydraulic equipment at the subject property?

No

27. Have asbestos-containing materials (ACM) been identified at the subject property?

No

28. Have lead-based paints (LBPs) been detected at the subject property?

No

29. Have there been indications of moisture intrusion, mildew-like odors, or visible mold growth inside structures at the subject property?

Unknown

30. Is the subject property located in an environmentally sensitive area (i.e., wetlands, coastal barrier resource areas, coastal barrier improvement act areas, flood plains, endangered species, etc.)?

No

31. Are you aware of environmental compliance violations issued to the subject property by a regulatory authority?

No

32. Have any ADJOINING PROPERTIES been used for the following?

None of the above

33. Do you have access to any of the following documents pertaining to the subject property?

None of the above

34. Token

ya6gcbo49ht0ipmp2eeya6gf9syymzwh

35. Submitted at

2022-08-31 17:43:20 +0000 UTC

[Click here to view results](#)

Grantor	Grantee	Sale Price	Sale Date	Inst. Type	Terms of Sale	Liber & Page	Verified By	Prcnt. Trans.				
Property Address		Class: COMMERCIAL-VACANT		Zoning: R-4 (Building Permit(s)		Date	Number	Status		
220 N PARK ST		School: YPSILANTI SCHOOL DISTRICT		101-4-3710-461-00 (104) BL		08/03/2016		PBLDG-16-0306	CLOSED			
Owner's Name/Address		P.R.E. 0% Hist.Dist: X		SHED		02/02/2009		PMECH-09-0015	CLOSED			
CITY OF YPSILANTI BOYS CLUB 1 SOUTH HURON YPSILANTI MI 48198		MAP #: K-2 9-1 (B)		MASONRY		04/28/2008		PELEC-08-0048	CLOSED			
		2023 Est TCV Tentative		CAR PORT		01/09/2008		PBLDG-08-0001	CLOSED			
Tax Description		Improved	X	Vacant		Land Value Estimates for Land Table 00006.06 GATEWAY ASSOCIATION						
		Public Improvements				* Factors *						
				Description	Frontage	Depth	Front	Depth	Rate %Adj.	Reason	Value	
				ACREAGE TABLE 'A'			4.460	Acres	0	100	0	
						4.46	Total Acres	Total Est. Land Value =		0		
11-11-09-111-004 REWRITE PER SURVEY 07/27/22 YP CITY 11E-29A-1 COM AT NE COR LOT 60, TH S 00-40-00 W 314.0 FT TO A POB, TH CONT S 00-40-00 W 291.53 FT, TH 664.82 FT ALNG ARC OF CURV-RT-RAD 1986.74 FT - CH N 53-08-10 W 661.72 FT, TH N 00-40-00 E 207.11 FT, TH N 89-50-50 E 243.06 FT, TH S 00-40-00 W 117.0 FT, TH S 82-44-07 E 48.71 FT, TH S 48-35-19 E 140.85 FT, TH N 40-01-36 E 5.0 FT, TH S 48-09-27 E 5.0 FT TH S 38-16-51 E 46.05 FT, TH S 00-40-00 W 61.50 FT, TH N 89-50-50 E 100.0 FT TO POB. PT OF LOT 60, GILBERTS ADDITION, 3.802 AC. COMBINED ON 07/28/2014 FROM 11-11-09-111-001, 11-11-09-111-003; Comments/Influences Split/Comb. on 01/30/2015 completed 01/30/2015 WCAASSESSING ; Parent Parcel(s): 11-11-09-111-001, 11-11-09-111-003; Child Parcel(s): 11-11-09-111-004; ----- The Equalizer. Copyright (c) 1999 - 2009. Licensed To: City of Ypsilanti, County of Washtenaw, Michigan		Dirt Road Gravel Road Paved Road Storm Sewer Sidewalk Water Sewer Electric Gas Curb Street Lights Standard Utilities Underground Utils.		Topography of Site Level Rolling Low High Landscaped Swamp Wooded Pond Waterfront Ravine Wetland Flood Plain		Year	Land Value	Building Value	Assessed Value	Board of Review	Tribunal/Other	Taxable Value
		Who	When	What	2023	EXEMPT	EXEMPT	EXEMPT				EXEMPT
					2022	EXEMPT	EXEMPT	EXEMPT				EXEMPT
					2021	0	0	0				0
					2020	0	0	0				0

*** Information herein deemed reliable but not guaranteed***

Grantor	Grantee	Sale Price	Sale Date	Inst. Type	Terms of Sale	Liber & Page	Verified By	Prcnt. Trans.
Property Address		Class: EXEMPT		Zoning: R-4	(Building Permit(s)	Date	Number	Status
220 N PARK ST		School: YPSILANTI SCHOOLS		101-4-3710-461-00 (104) BL		08/03/2016	PBLDG-16-0306	CLOSED
Owner's Name/Address		P.R.E. 0% Hist.Dist: X		SHED		02/02/2009	PMECH-09-0015	CLOSED
CITY OF YPSILANTI BOYS CLUB 1 SOUTH HURON YPSILANTI MI 48198		MAP #: K-2 9-1 (B)		MASONRY		04/28/2008	PELEC-08-0048	CLOSED
Tax Description		2017 Est TCV 0		CAR PORT		01/09/2008	PBLDG-08-0001	CLOSED
		Improved	X	Vacant		Land Value Estimates for Land Table 00006.06 GATEWAY ASSOCIATION		
		Public Improvements		* Factors *		Description Frontage Depth Front Depth Rate %Adj. Reason Value		
		Dirt Road		ACREAGE TABLE 'A'		4.460 Acres 0 100		
		Gravel Road		4.46		Total Est. Land Value = 0		
		Paved Road		Work Description for Permit PBLDG-16-0306, Issued 08/03/2016: DEMO EXISTING COMMERCIAL PROPERTY. OPEN HOLE & FINAL BUILDING INSPECTIONS REQUIRED. PLEASE GIVE YCUA 24-48 HRS NOTICE TO HAVE CUT & CAP INSPECTIONS COMPLETED THROUGH SERVICE DEPT. CONTACT PAM AT 734-484-4600 x 307 FOR INSPECTIONS.				
		Storm Sewer		Work Description for Permit PMECH-09-0015, Issued 02/02/2009: REPLACE FURNACE. ALL WORK TO MEET ALL CODE REQUIREMENTS.				
		Sidewalk		Work Description for Permit PELEC-08-0048, Issued 04/28/2008: REWORK OUTSIDE LIGHTING - ADDING 6 CAN LIGHTS / REWORK WALL PACK. ALL WORK TO MEET ALL HDC AND ALL CODE REQUIREMENTS.				
		Water		Work Description for Permit PBLDG-08-0001, Issued 01/09/2008: INSTALLATION OF NEW ROOF, GUTTERS AND INSULATION ON BOYS AND GIRLS CLUB LEARNING CENTER AND ADMINISTRATIVE OFFICE. ALL WORK TO MEET ALL HDC AND ALL CODE REQUIREMENTS.				
		Sewer		Work Description for Permit PMECH-03-025, Issued 01/24/2003: INSTALL TWO REPLACEMENT FURNACES PER ALL CODE REQUIREMENTS.				
		Electric						
		Gas						
		Curb						
		Street Lights						
		Standard Utilities						
		Underground Utils.						
		Topography of Site						
		Level						
		Rolling						
		Low						
		High						
		Landscaped						
		Swamp						
		Wooded						
		Pond						
		Waterfront						
		Ravine						
		Wetland						
		Flood Plain						
		Year	Land Value	Building Value	Assessed Value	Board of Review	Tribunal/Other	Taxable Value
Who		When	What	2017	EXEMPT	EXEMPT	EXEMPT	EXEMPT
				2016	EXEMPT	EXEMPT	EXEMPT	EXEMPT
				2015	0	0	0	0
				2014	0	0	0	0
The Equalizer. Copyright (c) 1999 - 2009. Licensed To: City of Ypsilanti, County of Washtenaw, Michigan								

*** Information herein deemed reliable but not guaranteed***

09/09/2022
11:21 AM

Valuation Report

DB: City Of Ypsilanti 2023

1111-11-09-111-004	2023 Est. T.C.V.	CITY OF YPSILANTI
Property Class: 202		220 N PARK ST
Map #: K-2 9-1 (B)	CITY OF YPSILANTI	YPSILANTI, MI 48198

11-11-09-111-004
 REWRITE PER SURVEY 07/27/22 YP CITY 11E-29A-1 COM AT NE COR LOT 60, TH S
 00-40-00 W 314.0 FT TO A POB, TH CONT S 00-40-00 W 291.53 FT, TH 664.82 FT ALNG
 ARC OF CURV-RT-RAD 1986.74 FT - CH N 53-08-10 W 661.72 FT, TH N 00-40-00 E
 207.11 FT, TH N 89-50-50 E 243.06 FT, TH S 00-40-00 W 117.0 FT, TH S 82-44-07 E
 48.71 FT, TH S 48-35-19 E 140.85 FT, TH N 40-01-36 E 5.0 FT, TH S 48-09-27 E 5.0
 FT, TH S 38-16-51 E 46.05 FT, TH S 00-40-00 W 61.50 FT, TH N 89-50-50 E 100.0 FT
 TO POB. PT OF LOT 60, GILBERTS ADDITION, 3.802 AC.
 COMBINED ON 07/28/2014 FROM 11-11-09-111-001, 11-11-09-111-003;

Split/Comb. on 01/30/2015 completed 01/30/2015 WCAASSESSING ;
 Parent Parcel(s): 11-11-09-111-001, 11-11-09-111-003;
 Child Parcel(s): 11-11-09-111-004;

Land Value Estimates for Land Table 00006.06 GATEWAY ASSOCIATION

* Factors *

Description	Frontage	Depth	Front	Depth	Rate	%Adj.	Reason	Value
ACREAGE TABLE 'A'			4.460	Acres	0	100		0
			4.46	Total Acres			Total Est. Land Value =	0

2023 Est. T.C.V. 11-11-09-111-004	=	0
Est. TCV/Total Floor Area =	0.00	
2022 Assessed	MBOR	S.E.V.
0	0	0
		Base for Cap
		0
		C.P.I.
		0.00
2023	New Eq. Adjustment	Loss
0	0	0
		Additions
		0
		Tax Adjustment
		0
2023 Assessed	MBOR	S.E.V.
		Capped
		->Taxable<-
		PRE/MBT
Tentative	Tentative	Tentative
		Tentative
		Tentative

1111-11-09-111-004 2017 Est. T.C.V. CITY OF YPSILANTI
 Property Class: 701 220 N PARK ST
 Map #: K-2 9-1 (B) CITY OF YPSILANTI YPSILANTI, MI 48198

OWNER REQUEST YP CITY 11E-29A-1 LOT 60 GILBERT'S ADDITION, EXC BEG AT NE COR LOT 60, TH S 00-40-00 W 175.00 FT, TH S 89-50-50 W 147.63 FT, TH N 46-18-30 W 83.72 FT, TH 89-50-50 W 82.16 FT, TH N 00-40-00 E 117.00 FT, TH N 89-50-50 E 291.00 FT TO THE POB, ALSO BEG AT ELY ROW LN OF PARK ST AT SW COR LOT 60 GILBERT'S ADDITION TO CITY OF YPSI, TH 669.09 FT ALNG ARC OF CURV-LEF-RAD 1945.58 FT - CH S 52-50-00 E 656.98 FT, NLY ALNG ROW 60.30 FT TO THE POB. PT OF NE 1/4 SEC 9, T3S-R7E. 0.63 AC, PT OF LOT 60 GILBERT'S ADDITION. 221 N. GROVE* COMBINED ON 07/28/2014 FROM 11-11-09-111-001, 11-11-09-111-003

Split/Comb. on 01/30/2015 completed 01/30/2015 WCAASSESSING ;
 Parent Parcel(s): 11-11-09-111-001, 11-11-09-111-003;
 Child Parcel(s): 11-11-09-111-004;

Land Value Estimates for Land Table 00006.06 GATEWAY ASSOCIATION

		* Factors *					
Description	Frontage	Depth	Front	Depth	Rate %Adj.	Reason	Value
ACREAGE TABLE 'A'			4.460 Acres		0 100		0
		4.46 Total Acres			Total Est. Land Value =		0

2017 Est. T.C.V. 11-11-09-111-004					=		0
Est. TCV/Total Floor Area =	0.00						
2016 Assessed	MBOR	S.E.V.		Base for Cap	C.P.I.		
0	0	0		0	0.90		
2017	New Eq. Adjustment	Loss		Additions	Tax Adjustment	Losses	
0	0	0		0	0	0	
2017 Assessed	MBOR	S.E.V.		Capped	->Taxable<-	PRE/MBT	
0	0	0		0	0	0	

Real Estate Summary Sheet

Information herein deemed reliable but not guaranteed

05/24/2021 12:13 PM

Parcel:	11-11-09-111-004	Current Class:	201.COMMERCIAL-IMPROVED
Owner's Name:	CITY OF YPSILANTI	Previous Class:	201.COMMERCIAL-IMPROVED
Property Address:	220 N PARK ST YPSILANTI, MI 48198	Gov. Unit:	11 CITY OF YPSILANTI
		MAP #	K-2 9-1 (B)
		School:	81020 YPSILANTI SCHOOL DISTRICT
		Neighborhood:	00080 80.CITY OF YPSILANTI-80
Liber/Page:		Created:	01/30/2015
Split:	01/30/2015	Active:	Active
Public Impr.:	None		
Topography:	None		

Mailing Address:

CITY OF YPSILANTI
BOYS CLUB
1 SOUTH HURON
YPSILANTI MI 48198

Description:

OWNER REQUEST YP CITY 11E-29A-1 LOT 60 GILBERT'S ADDITION, EXC BEG AT NE COR LOT 60, TH S 00-40-00 W 175.00 FT, TH S 89-50-50 W 147.63 FT, TH N 46-18-30 W 83.72 FT, TH S 89-50-50 W 82.16 FT, TH N 00-40-00 E 117.00 FT, TH N 89-50-50 E 291.00 FT TO THE POB, ALSO BEG AT ELY ROW LN OF PARK ST AT SW COR LOT 60 GILBERT'S ADDITION TO CITY OF YPSI, TH 669.09 FT ALNG ARC OF CURV-LFT-RAD 1945.58 FT - CH S 52-50-00 E 665.80 FT, TH S 00-2-30 W 45.57 FT, TH 660.01 FT ALNG ARC OF CURV-RT-RAD 1986.74 FT - CH N 53-51-20 W 656.98 FT, TH NLY ALNG ROW 60.30 FT TO THE POB. PT OF NE 1/4 SEC 9, T3S-R7E. 0.63 AC, PT OF LOT 60 GILBERT'S ADDITION. 221 N.GROVE * COMBINED ON 07/28/2014 FROM 11-11-09-111-001, 11-11-09-111-003;

Most Recent Sale Information

None Found

Most Recent Permit Information

Permit PBLDG-16-0306 on 08/03/2016 for \$75,000 category 101-4-3710-461-00 (104) BLDG.

Physical Property Characteristics

2022 S.E.V.:	Tentative	2022 Taxable:	Tentative	Lot Dimensions:	
2021 S.E.V.:	0	2021 Taxable:	0	Acres:	4.46
Zoning:	R-4 (*)	Land Value:	Tentative	Frontage:	0.0
PRE:	0.000	Land Impr. Value:	Tentative	Average Depth:	0.0

Improvement Data

None

Image



Tax Information

SUMMER TAXES

	Billed	Paid	Balance
CITY	0.00	0.00	0.00
SANITATION	0.00	0.00	0.00
PUBLIC TRANSIT	0.00	0.00	0.00
WATER ST 2016A	0.00	0.00	0.00
AAATA	0.00	0.00	0.00
SCHL OP	0.00	0.00	0.00
SCHL DBT	0.00	0.00	0.00
SINKING FUND	0.00	0.00	0.00
STATE ED	0.00	0.00	0.00
WCC	0.00	0.00	0.00
WISD	0.00	0.00	0.00
LIBRARY	0.00	0.00	0.00
COUNTY	0.00	0.00	0.00
SCHOOL OPER FC	0.00	0.00	0.00
** BASE TAX **	0.00	0.00	0.00
ADMIN FEE	0.00	0.00	0.00
INTEREST	0.00	0.00	0.00
PENALTY	0.00	0.00	0.00
OVER PAYMENT		0.00	0.00
** TOTAL **	0.00	0.00	0.00

WINTER TAXES

	Billed	Paid	Balance
COUNTY PARKS	0.00	0.00	0.00
COUNTY NATURAL	0.00	0.00	0.00
COUNTY EECS	0.00	0.00	0.00
COUNTY VET RELF	0.00	0.00	0.00
HCMA	0.00	0.00	0.00
MH&PUB SAFETY	0.00	0.00	0.00
LIBRARY	0.00	0.00	0.00
ROAD	0.00	0.00	0.00
CONSERVATION	0.00	0.00	0.00
** BASE TAX **	0.00	0.00	0.00
ADMIN FEE	0.00	0.00	0.00
INTEREST	0.00	0.00	0.00
PENALTY	0.00	0.00	0.00
OVER PAYMENT		0.00	0.00
** TOTAL **	0.00	0.00	0.00

**FIRE DEPARTMENT FOIA**

DATE: May 21, 2021
CONTACT: Fire Chief Ken Hobbs
DEPARTMENT: City of Ypsilanti Fire Department
TITLE: FOIA Response Division

TARGET PROPERTY: 220 N. Park Street
(Parcel ID No. 11-11-09-111-004)
PROJECT NUMBER: 10627F2-1-17

Please respond to the following list of questions concerning the above referenced target Property.

1. To the best of your knowledge, are you aware of any releases of hazardous substances or petroleum products on or near the Property? If yes, please explain. **NO**
2. To the best of your knowledge, are there now or have there ever been any underground storage tanks (USTs) or aboveground storage tanks (ASTs) located on or near the Property? If yes, please explain. **NO**
3. To the best of your knowledge, what is the history of use of the Property and adjacent properties? *I believe a Boys + Girls Club sat AT THIS LOCATION.*
4. Has your department responded to any fires or spills at the Property or neighboring properties? If yes, please explain. **NO**
5. To the best of your knowledge, has there been any activity or process at the Property or adjacent properties involving the use of hazardous materials? If yes, please explain. **NO**

DATE COMPLETED

5/25/21

COMPLETED BY

Clifton Pope

Scott Wasielewski

Subject: FW: FOIA file review - 220 N. Park Street

From: Pope, Clifton <cpope@cityofypsilanti.com>
Sent: Thursday, September 8, 2022 9:17 AM
To: Scott Wasielewski <WasielewskiS@aktpeerless.com>
Subject: RE: FOIA file review - 220 N. Park Street

Good morning,

The info that I provided on the 2021 questionnaire is still valid without any changes. If you need to reach me, feel free to contact me at (734) 482- 9755.

Clifton Pope
Fire Marshal
City of Ypsilanti Fire Dept.
525 West Michigan Ave.
Ypsilanti, MI 48197
734 482- 9755 (Phone)
734 483- 7522 (Fax)
CFI-I, CFI -II, CFPE

From: [Melissa Robinson](#)
To: [Scott Wasielewski](#)
Subject: 220 N. Park
Date: Tuesday, May 25, 2021 2:08:37 PM

In response to your request for the above mentioned records, Washtenaw County Environmental Health have one documents or records that would meet your request. Therefore I certify that to the best of my knowledge, no other records exist or are available that would satisfy your request. I attached the website where you can find the records for the above address you requested. Just type in the street # only (220) and click search.

Melissa Robinson
CSS

<https://www.washtenaw.org/2773/Well-Septic-Records>

Additionally- if you bookmark the site you can refer to it in the future for records you are seeking.

Scott Wasielewski

From: EGLE FOIA Request Center <michiganegle@govqa.us>
Sent: Friday, September 9, 2022 4:33 PM
To: Scott Wasielewski
Subject: FOIA Request :: E219510-082922

--- Please respond above this line ---

September 09, 2022

Reference Number: E219510-082922

Mr. Scott Wasielewski
AKT Peerless
22725 Orchard Lake Road
Farmington, MI 48336

Dear Mr. Wasielewski:

This notice responds to your request for records, received by the Michigan Department of Environment, Great Lakes, and Energy (EGLE) requesting information under the Freedom of Information Act (FOIA), MCL 15.231 *et seq.*

Your request will be granted as to existing, nonexempt records in EGLE's possession falling within the scope of the request.

Section 4(4) of the FOIA, MCL 15.234(4), provides that a public body must provide a detailed itemization that clearly lists and explains the allowable charges for the necessary copying of a public record for inspection; actual mailing costs; actual incremental cost of duplication or publication, including labor; and the cost of search, examination, review, and deletion and separation of exempt from nonexempt information, which compose the total fee for estimating and charging purposes.

To commence the processing of the request, under section 4(8) of the FOIA, MCL 15.234(8), EGLE requires a one-half good faith deposit of \$314.54 based on an estimated total cost of \$629.07. Failure to charge would result in an unreasonably high cost to EGLE in this particular instance because employees must be taken away from pending work to process the request and expend additional time to complete regularly assigned departmental work. Please refer to the invoice for a breakdown of the fees assessed.

After receipt of \$314.54, EGLE will complete the processing of the request within an estimated 20 business days. Section 4(8) of the FOIA, MCL 15.234(8), provides that the time frame estimate is nonbinding upon the public body, but the public body shall provide the estimate in good faith and strive to be reasonably accurate and provide the public records in a manner based on this state's public policy set forth in section 1(2) of the FOIA, MCL 15.231(2), and the nature of the request in the particular instance.

Section 4(14) of the FOIA, MCL 15.234(4)(14), provides that if a deposit that is required under subsection (8) or (11) is not received by the public body within 45 days from receipt by the requesting person of the notice that a deposit is required, and if the requesting person has not filed an appeal of the deposit amount pursuant to section 10a, the request shall be considered abandoned by the requesting person and the public body is no longer required to fulfill the request. Notice of a deposit requirement under subsection (8) or (11) is considered received 3 days after it is sent, regardless of the means of transmission. Notice of a deposit requirement under subsection (8) or (11) must include notice of the date by which the deposit must be received, which date is 48 days after the date the notice is sent [October 27, 2022].

Upon completing the processing of the request, EGLE will send notice of the balance due, the statutory basis for exemptions,

if any, and the statutory remedial rights, if applicable. After receipt of the balance due, copies of the records will be provided to you.

You may submit the payment online, please visit the following link: [FOIA Payment Center](#).

If you would like to discuss whether the request can be refined to reduce the costs, or you have any other questions, please access your online account and reply to this message there.

To review a copy of EGLE's FOIA policy and procedure, public written summary, and several online databases, go to www.michigan.gov/eglefoia.

Kind regards,

EGLE FOIA

Scott Wasielewski

From: EGLE FOIA Request Center <michiganegle@govqa.us>
Sent: Friday, September 9, 2022 4:28 PM
To: Scott Wasielewski
Subject: FOIA Request :: E219508-082922

--- Please respond above this line ---

September 09, 2022

Reference Number: E219508-082922

Mr. Scott Wasielewski
AKT Peerless
22725 Orchard Lake Road
Farmington, MI 48336

Dear Mr. Wasielewski:

This notice responds to your request for records, received by the Michigan Department of Environment, Great Lakes, and Energy (EGLE) requesting information under the Freedom of Information Act (FOIA), MCL 15.231 *et seq.*

Your request will be granted as to existing, nonexempt records in EGLE's possession falling within the scope of the request.

Section 4(4) of the FOIA, MCL 15.234(4), provides that a public body must provide a detailed itemization that clearly lists and explains the allowable charges for the necessary copying of a public record for inspection; actual mailing costs; actual incremental cost of duplication or publication, including labor; and the cost of search, examination, review, and deletion and separation of exempt from nonexempt information, which compose the total fee for estimating and charging purposes.

To commence the processing of the request, under section 4(8) of the FOIA, MCL 15.234(8), EGLE requires a one-half good faith deposit of \$168.59 based on an estimated total cost of \$337.18. Failure to charge would result in an unreasonably high cost to EGLE in this particular instance because employees must be taken away from pending work to process the request and expend additional time to complete regularly assigned departmental work. Please refer to the invoice for a breakdown of the fees assessed.

After receipt of \$168.59, EGLE will complete the processing of the request within an estimated 15 business days. Section 4(8) of the FOIA, MCL 15.234(8), provides that the time frame estimate is nonbinding upon the public body, but the public body shall provide the estimate in good faith and strive to be reasonably accurate and provide the public records in a manner based on this state's public policy set forth in section 1(2) of the FOIA, MCL 15.231(2), and the nature of the request in the particular instance.

Section 4(14) of the FOIA, MCL 15.234(4)(14), provides that if a deposit that is required under subsection (8) or (11) is not received by the public body within 45 days from receipt by the requesting person of the notice that a deposit is required, and if the requesting person has not filed an appeal of the deposit amount pursuant to section 10a, the request shall be considered abandoned by the requesting person and the public body is no longer required to fulfill the request. Notice of a deposit requirement under subsection (8) or (11) is considered received 3 days after it is sent, regardless of the means of transmission. Notice of a deposit requirement under subsection (8) or (11) must include notice of the date by which the deposit must be received, which date is 48 days after the date the notice is sent [October 27, 2022].

Upon completing the processing of the request, EGLE will send notice of the balance due, the statutory basis for exemptions,

if any, and the statutory remedial rights, if applicable. After receipt of the balance due, copies of the records will be provided to you.

You may submit the payment online, please visit the following link: [FOIA Payment Center](#).

If you would like to discuss whether the request can be refined to reduce the costs, or you have any other questions, please access your online account and reply to this message there.

To review a copy of EGLE's FOIA policy and procedure, public written summary, and several online databases, go to www.michigan.gov/eglefoia.

Kind regards,

EGLE FOIA

YPSILANTI

Table listing 707-719 addresses in Ypsilanti, including names like Gail Furbacher, M L Liskow, J M Rauch, and phone numbers.

PARK N 48198

Table listing 10-115 addresses in Park N, including NAPA Auto Parts, Newhouse Auto Part, and Wilber Heatg&Air.

PARK S 48198

Table listing 101-109 addresses in Park S, including Salvation Army, Johnsons N Amr Sp, and Amer Tae Kwon Do.

PARSONS 48198

Table listing 102-114 addresses in Parsons, including Accent Gallery, Yps Iron&Metal, and Esther M Taylor.

PEARL 48197

Table listing 105-417 addresses in Pearl, including W F Anhut Aty, Barr Anhut&Sacks, John M Barr Aty, and many others.

BRESSER'S

Table listing 418-517 addresses in Bresser's, including Robert L Black Jr, Kristek, Worden E Geer, and David A Benzing.

PEARSON 48197

Table listing 518-617 addresses in Pearson, including Renaissance House, J Lepe, and Phillip Strait.

PERRIN 48197

Table listing 618-717 addresses in Perrin, including Eric C Merrill, Man Beth Porrallo, and Renadaddaway.

BRESSER'S

Table listing 1115-1217 addresses in Bresser's, including Gary Pedersen, Joseph Gurt, Joyce A Roberts, and George Chapman.

PEARSON 48197

Table listing 1218-1317 addresses in Pearson, including Rev John Roberts, Henry E Thomas Jr, and Lamar E Fletcher.

PERRIN 48197

Table listing 1318-1417 addresses in Perrin, including D S Oesrosiers, J Hill, S Mans, and Grady Flam.

YPSILANTI

Table listing 416-427 addresses in Ypsilanti, including Lon Mayer, C Miller, Stephen B Oster, and John Ratiff.

PERRY 48197

Table listing 501-591 addresses in Perry, including Leardene Walker, Edward Curtis, 509 511, and Lee Stewart.

PHOTO 48198

Table listing 32-37 addresses in Photo, including T English, Harold L Jones, and 4 Residence.

PIERCE HALL 48198

Table listing 909-913 addresses in Pierce Hall, including Dennis Regan, Dennis Regan CPA, and A Mengden.

PLEASANT R 48197

Table listing 901-937 addresses in Pleasant R, including Timothy Launus, Peter Sutton, Roy Buck, and Dr K Dvorak.

PROSPECT N 48198

Table listing 11-224 addresses in Prospect N, including 11* Prospect Fmly Sht, 13 14 15 12, and Donald Wenzel.

48197
206 S DUNN
SCOTT GARRETT
M HENDERSON
ERIC MAUER
TERRY O'BRIEN
TODD WYR
208 SARA JEVONS
209 KEVIN CHATMAN
JOHN GIEDLINSKI
213 WILLIAM HUGHES
214 RUSSELL J GEIB
217 NICHOLAS FERBER
RICHARD LYONS
J M ROULEAU
MICHAEL SNYDER
219 JEFF KWIAT
TODD SEXTON
GORDON SNOW
302 STEPHEN BRAO
CHARLES GRAMIGNA
DANIEL POOLE
BERNARD SCANLAN
DOMINIC BERTOLINI
PAUL IUTOLINI
ERIC GODDARD
D KEDZIERSKI
320 CHRISTINE DEWALT
RICHARD GREEN
PAUL HATCH
CECILE HAWAY
MARILYN JECH
JENNY PEARSON
STEPHEN SYDOR
89 RESIDENCE
4 BUSINESS

NORMAL S 48197
1- 99 T 27
7 CHRISTINE ADAMICK
A BURLING
JULIE COPITS
DARWIN FARNUM
JOHN FIELDS
K GOBLE
DEBBIE KARAS
STEVEN L MATRONE
BARRY MOULTON
S PAIGE
SHELY SOKOL
KAREN STARKE
8 HERVE AUDET
F H BRIDLE
8 DONALD FORD
9 OLIVER J BLUM
12 J MAJOROS
R K VASSAR
S WEBBER
15 RICHARD C HILL
MARILYN SKIVER
MARILYN SKIVER
16 S J COLEMAN
17 PATRICK J POWERS
J WILSON-POWERS
18 RICHARD J BURG
19 ALFRED J MORRIS
20 ROLLAND B BATES
21 MICHAEL BUEHLER
22 BILLY J GUTHRIE
23 J POWERS
EARL R SNYDER
24 EUGENE GUYTON
30 IRVIN ARNOLD
32 TRYN MANN
CLEO M PLOM
37 RESIDENCE

NORRIS 48197
600- 799 T 23
609 DOUGLAS JOHNSON
ADELL J STITT
611 ALEXANDER GRAY SR
612 ELS
618 LEWOOD D BROWN
619 EDWARD O MIXON
621 JESSIE GRICE
624 MICHAEL GRICE
625 RAGNAR KVARN
626
717 MOTOR WHEEL CORP
724
726 RENIA TRUITT
728 ALEC WARE
15 RESIDENCE
1 BUSINESS

NORTH 48197
100- 399 T 24
109 J KANN
110 ROGER WOOD
113 JAMES CARROLL
20 KEVIN DILLS
214 RICHARD TEALL
204 DARLENE MEGGISON
303 ABLE TOWING
310
314
316 RICHARD H NEWHOUSE
9 RESIDENCE
1 BUSINESS

OAK 48197
1- 899 T 23
FRANK BURGESS
MARK S DELICATO
7
12 ROBERT L CARPENTER
14 OMAR GRAVITT
WESLEY MYERS
15
204 ROBERT MATZ
205 C PETERSON
206 FREDERICK W BECKER
209
210 WARD BOOLE
CLARENCE VERBURG
213 BESSIE DWARDS
LINDA LEMKE
O B SPRATT
214
MARTIN BURKE
217 R M BURKE
219 REV RALPH CROTTY
302 HILDA MCCOMB
GEORGE MCCREEDY
305 GLENN AMBROSE
MICHAEL LACHANCE
JOHN G STEELE
306 C REMMERT
312 B KEEFE
313
314 DONALD MOORE
ROXANNE THOMSON

48197
317 KAREN SCHWARTZ
318 WILEY MASSINGILL
FLOYD PORTER III
L SCHNEIDENBACH
320
323 A HOUSEWRIGHT
324 RALPH M CONRAD
328 DAVID JOHNSON
329 CHARLES GREY
331 WILLIAM KNUDSTRUP
332 TERRY WEBSTER
333
405 ELMER A RUTHERFORD
406 DELMAR BUDER
409 DAVID SCHWARTZ
410 G MARKLEY
411 V RAMS
414 LEON CHAPMAN
415 C POLAND
417
418 CELIA M CASTO
503 YPS ELEM SCHL
601 GOZ 605
616 FRANCIS SLABIAK
620 GEORGE MULLENS
623 APOSTOLIC CHRISTIAN
APOSTLC CHR TN ACAD
APOSTOLIC FAITH CH
701
702 ELSTER BURNETTE
704
705 CURTISS D BASSETT
707 L I PARRISH
710 WILLIAM J HAMILTON
711 JON K BRAKES
712 NORMAN BARRON JR
715 R M LAMOREAUX
J SCHWARTZENBERGER
831 BURL TISDALE
841 WESLEY F SMITH
846 PETER L PARIN
853 WALTER BURNETT
854 HARRY LOPER
865 CARL J SCHEFFLER
866 FREDERICK J HORN
870 KENNETH BEAUDRY
78 RESIDENCE
4 BUSINESS

OAKWOOD AVE 48197
1- 499 T 27
500- 798 T 2903
501- 799 T 2901
J BLOSSOM
L N PARSONS
R OBERT L ISAACSON
ROBERT L ISAACSON
HARRY A TERPSTRA
SIDNEY GENDIN
C EDWARDS
KEVIN MADDY
JAMES R PALASEK
SHINGLEDECKER
M T SHINGLEDECKER
JAMES ARMELAGOS
H V MCCUTCHEON
VICKIE MORRISSEY
JOHN D MADDEN
JOHN K STEADMAN
M MCGOWAN
D ROBERT RACINE
JAMES WALTZ
LUCE BRUCE E THOMPSON
107
108 C GOSLEE
109 C R YAW
110 RONALD M SUSSMAN
115 LYNN G COOPER
201 HELEN L DAVIS
205 CYNTHIA PORTER
JEFF L PORTER
208 WAYNE T JACKSON
211 GEO A GRANGER III
213 KERRY ODONOHUE
214 LYNN ROSENFELD
215 TERRY CRANS
MARTIN PIKSTEIN
216 D BILIK
217 F MARQUES
219
229 C COOK
230 JOHN BLACKHALL
JAMES C NEALE
232 DAVID W BORTEN
507 RICHARD LEINBACHO
509 GERALD M SMITH
707
53 RESIDENCE
48197

OLIVE 48197
200- 499 T 28
206 RICHARD WADDELL
207 LARROW TONDA
208 ZI
209 MRS RICHARD EVERARD
312 TIM BILLUPS
THEO R WICKERING
313 JEFF BROWN
409 G L MARSH
H PAYNE
410
411 DON GROGAN
414 W H NEWTON
415 CAROL A BROWN
JOS PAVLOVICH JR
JOS PAVLOVICH JR
416 DOUGLAS D GREER
417 CATH COSCARELLY
ROSE HANLON
418 T WILLIAMS
21 RESIDENCE

ORCHARD 48197
300- 499 T 26
317 319
325 D&H SERVICES
332 WILLIE MARKS
338
350 MARSHALL WEATHERS
351 FRANK SIMMONS
353-360 420 422

4811785
423 CHARLES P EDWARDS
424 LOUISE HARRIS
425 ANNIE M POWELL
426
427 OTHO BRANDON
431
432 JOSEPH HUBBARD
435 R CURTIS
437 ANGELA MCGEE
NOBLES J MCGEE
21 RESIDENCE
1 BUSINESS

OSBAND 48197
400- 699 T 23
416
430 TRACY GREENE
444 STEVE WALKER
445
460 THOMAS W LYKE
461 CHARLES HINES
501 M H GILLENLINE
MARTIN GILLENLINE
507
514 DEBRA SEIBER
DERRICK STANGE
530 DAVID GILLIAM
544 CLIFFORD BOYD
560 HAROLD W RUTLEDGE
816 HAENG K PAK
712 JACK V SUGITT
629 JULIA SIDL
642 JOSEPH PAYNE
18 RESIDENCE

OWENDALE AVE 48197
1- 499 T 27
9 LACY PUCKETT
221 ALLEN WIEDMAN
224 DONALD H PORTER
234 JIM FRANKLE
349 RICHARD G OLTMANN
359 LOUIS BATTERSON
360 JOHN FITZHARRIS
460 M C BECK
461 RICHARD L BINDER
484 ROBERT H ROWLEY
485 THOMAS D BAKER
486 LINDA M HARPER
469 M S CANDIOTTI
472 WAYNE J HAUSHALTER
475 RAY C BANE
476 480
481 G W JEWETT
18 RESIDENCE

OXFORD RD 48197
700- 799 T 2901
701 RANDY FINE
CLAYTON RICE
JAMES WOODWARD
703 DUANE T HAYES
706 TOM CAMPBELL
707 PAUL E JACKSON
708 M L LISKOW
710 ROBERT V HARRIS
712 WALTER GESSERT
713 DONALD W PEARSON
714 L A MARTIN
716 M F MCCARTHY
717 BRIAN BOWNE
718 MARK L BEAUCHAMP
719 GEORGE F EATON
721 J M CHAVES
WILLIAM F WILCOX
722 G S ADAMS
723 JOHN W MUNGER
727
21 RESIDENCE

113 JUNIOR ACHIEVEMENT
115 THE COBBLER SHOES
117 R G MULLINS ATTY
NAACP
124 ANN ARBOR INS CNTR
METRO TRADING ASSN
INTL POLYMERS ASSN
A L WILLIAMS
ANN ARBOR MORTGAGE
BOARDWALK ENTRPRISE
BUYS MACGREGOR
CAPICCHIONI CONSTR
CENTENNL CT OF FCS
CENTENNL OFC SV
EXECUTIVE CIRCLE
GERARD BUILDERS
INSTRUMENTARIUM
INTEGRATED FIN SVC
INTL POLYMERS CORP
P E JURGENSEN CPA
LANGUAGE VDEO INTL
LEE DRIVING SCHOOL
DR SHIRLEY J PHELP
RISCOMPANY
SCRIBE MDCL TRNSCB
STATE CLG OF BTY
THE KATKE CO
TONERS COPY SERVIC
WOLVERINE INST MI
WOODRUFFS GRV SPRT
H F ZERWICK BRKR
209 BRAD BLAIR INS
BRAD BLAIR INS
DATA-VOICE COMMCT
S A DISBROW CHRPTA
HOPKINSASSOCIATES
M D LANDT INFRANC
MINI-KOOL INCORPT
R O PRITCHARD JR
DELACAY TAILORING
CTHLC SOCIAL SVCS
LEON MCBRIDE
RONALD E MYERS
VANITY SHOP
YPSI PLASMA CENTR
RALPH VANCE
ROBERT BARTOLOMEO
RODNEY LOTZ
DONALD OATES
GEORGE COLEMAN
THOMAS MEITZLER
KENNETH ANTKOWIAK
THE BOP SHOP
HASSAN ABULHUDA
M BRIDYSHAW
A M CHRISTODOULOU
E E SPENCER
STANLEY SEAMAN
S A BURKENBINE
JAMES TRAVIS
DAVID J SLADEWSKI
C J CARRIER
ANH QUOC DANG
SHARON C T&MNGM
WORDEN E GEER
CYPRIAN NWODO
MARIE L VERDUCE
PAUL KOENIG
DAVID SZARENSKI
ROBERT H SHARP
TOIL YUN
JAMES MANN
CRAIG SCHOETTLER
JACK HARRIS
CLIFFORD LARKINS
RAYMOND J ANDERSON
JEFF MASTERVICH
PAUL BUCZKOWSKI
LAURETTA LAURENCE
LEE SCOTT
PRENAISSANCE HOUSE
CHERYL ALWADI
EDDIE ENGLE
J BIBIK
MICHAEL L HORSCH
R REID
KELLY ASSENMACHER
BOB A JONES
FRASE CHASE
TERRY LEDGERWOOD
M PEREZ
NINA BERNIER
M HUDSPETH
ESTHER REGALADO
JERROLD THOMPSON
REGGIE BRAY
VIRGINIA DUBOSE
ARTIS J GONS
LESLIE SHIMP
JEAN CURRIE
ESTHER MARCUS
ANGELA PEEPLE
P GOLDEN
GREG MUNGER
P WHEELLOCK
K HOFFMAN
706 706 J 707
STANLEY BISOSKI
CARL J CALDWELL
CHARLES JACKSON
JOHN H KELLER
C SKUBIK
H E SCHLESINGER
PAUL OLIVER
S J COLEMAN
JOE KALIK
MARY SDAO
M MIKUS
JAMES T ISBISTER
KATHLEEN CLARK
D KAMPINEN
KATHERINE KELLEY
KATHY BOHANON
JAMES CULLEN
WAYNE ENDY
BETSY LANE
ALAN SHARPEY
GEORGE SEARS
GARY C BACHMAN
LESLIE L RUSSELL
DEAN A RUSSELL
JAMES K BAKER
MITSUKO ENDO
JOHN L WRIGHT
MURRAY
RICK WALES

YPS PLANI... 48197... 325 KIM HOWARD... 332 WILLIE MARKS... 338 FRED WILLIAMS...

115 2 RESIDENCE NP 2 BUSINESS... PARSONS... 48197... 100-399 T 24 SE H 5...

701 RON WLODARCZYK... 702 G E TOMASZEWSKI... 703 PATK SOMMERVILLE...

21 LINDA EHRSTINE... 4879409... JOHN H GOODNOW... WILLIAM PL YMALE...

OSBAND... 48197... 400-699 T 23 SD H 5... TRACY GREENE... YPSI WINDOW CLNNG...

PEARL... 48197... 100-1399 T 27 SE G 5... JOHN M BARR ATTY... FREATMAN ASSCCS...

707 LUIS E SMITH NP... 801 DEBORAH PACHOLSKI... MICHAEL SHELTON...

203 MICHAEL GOTHE... 4879694... WALTER GOTHE... LARRY P FRANKA...

OWENDALE AVE... 48197... 1-499 T 27 SB G 5... ALLEN WIEDMAN... DONALD H PORTER...

315 WALTER E JANSEN JR... 303 RONALD E MYERS... VANITY SHOPPE...

911 JAMES K BAKER... 912 N BRISEOIS... JAMES F CAMPBELL... EDWARD SCHACK...

400 GLORIA BLUE... 5 4810046... HURLYN HECKER... LAURA LAZAR...

OXFORD... 48197... 700-799 T 2901 SA G 5... CLARYS RICE... DUANE T HAYES...

317 W MILITANTCDWARD... 316* M HAMILTON ATTY... 319 JIM GAMBLE...

1110 RUSSELL S BOGARIN... 1111 HAROLD F FUGATE... 1112 HARRY W BOWEN...

417 NP... 419 NP... 421 NP... 423 NP...

OXFORD CT... 48197... 800-8998 T 21 SD I 4... THOMAS W FOLEY... HOPE JOHNSTON...

501 GARY BRUNKEN NP... 517 BRIDGET CAREW... REV CLINTON JARVIS...

1124 E S CHIPMAN... 1125 RICHARD W WAGNER... 1201 WILLIAM F HOLMES...

PERRY... 48197... 500-599 T 2501 SE G 6... LEARLENE WALKER... LORRAINE EASLEY...

PARK N... 48197... 10*NEWHOUSE AUTO PRS... FRANCIS LACOMB... P E BOATWRIGHT...

518 NP... 601*RENAISSANCE HOUSE... RICHARD DENNING... BARBARA HOLLIFIELD...

PEARSON... 48197... 300-399 T 27 SB G 5... IMOCENE COKER... THOMAS ALBER...

501 LILLIE BROOKS... 2 4854423... RAYMOND H DEAN... RAYMOND ELLINGTON...

PARK S... 48197... 1-199 T 24 SE H 5... SALVATION ARMY... NORTHRAM TAKEWONDO...

604 T URSO... 605 T URSO... BRENDA WALDRON... K M GUSTAFSON...

PERRIN... 48197... 100-199 T 27 SB G 5... GLEN REDDAWAY... CONNIE BURRITT...

PHOTO... 48197... 1-99 T 24 SE H 5... TIM DANNA... JOHN GRATES...

OWENDALE AV—Contd
 472 Haushalter Wayne J @
 HU2-1402
 475 No return
 476 Arndt Carl H @ HU2-3308
 480 Heck Patk A @ HU2-4710
 481 Leabu John @ HU2-8032
 Washtenaw av intersects

21
OXFORD RD—From 200
 Roosevelt blvd northeast 1
 east of Cambridge rd
 703 Johnson Bruce C @
 HU2-0098
 706 Barence Wm D @
 HU3-0018
 707 Jackson Paul E @
 HU2-1490
 708 Stowe Marrion F @
 HU2-8445
 710 No return
 712 Ott Richd O 482-3334
 713 Fagerstrom Simon E @
 HU2-6551
 714 Martin L A @ HU2-5045
 716 McCarthy Gerald @
 HU3-4671
 718 Harrison Bert E @
 HU2-6058
 719 Hankinson O Allen @
 HU2-7879
 721 Gardner D Neil HU2-2587
 722 Adams Geo E @ HU2-0896
 723 Mungler John W @
 HU2-1889
 727 Matthews M Orrion Mrs @
 HU2-7465
 Kingwood av intersects

23
PACKARD ROAD—Continuation
 of Cross blvd from city
 limits west beyond Rice av
 Douglas av begins
 1550 No return
 Marion av begins
 Courtland begins
 Stratford rd begins
 Berkley av begins
 1866 Rosbach Pearl Mrs @
 HU2-3669
 1885 Stone Jas W HU3-2670
 1886 Rice J Hale @
 HU2-3668
Kewanee begins
 1960 Kepy Donald A 482-3581
 Irvine Edgar D
 HU2-7657
Rosedale av begins
N Hewitt rd intersects
 2020 StJohn The Bapt High
 Sch 482-0858
 443-9876
 2236 Cornell Jas A @
 2295 Krist Harvey A Rev
 HU3-3480
Fairfield begins

2302 Seleska Fred C @
 442-7299
Brookside begins
Valley dr begins
 2490 No return
Edison av ends
 2520 Sanderson Jas E @
 HU3-3460
 2541 Vivian Lewis @ HU2-7520
Hullcrest blvd ends
 2547 Vacant
 2550 Drake Edw @ HU2-3029
Club View dr ends
 2780 Keller Marie Mrs @
 HU3-9336
Dexter begins
 2810 Southern Pentecostal
 Baptist Church
Bergen av begins
 2950 Hones Donald F @
 HU2-2385
 2955 Hansen Paul
Rice av begins

24
PAGEANT—From 1248
 Hunter northeast to E
 Clark rd
 1220 Riggs Leroy @ 483-0740
 1223 No return
 1232 Visel James E @
 HU3-3331
 1235 Ramsey Wm L jr @
 HU2-0666
 1240 Andrews Frank W @
 HU2-8750
 1260 No return
Byron ends
Laurel ends
 1261 Jordan Grady M @
 HU2-0930
 1269 Merritt Howard L @
 1277 Vacant
 1285 Mullins Teddy R @
 HU2-3298
 1293 Farley Billy G @ 482-
 1092

4
PARK N—From 300 E Michi-
 gan av north
 10 Moblely Ambulance Serv
 482-2344
 14 Myrick Margt Mrs @
 HU2-0582
 Udell Louise
Babbitt intersects
 103 LaCombe Francis J @
 HU2-5583
 104 Boatwright Pearl E Mrs @
 HU3-0143
 110 No return
 114 Willetts Barbara Mrs @
 HU2-8793
North av intersects
 201 Salkworth D M Distr Inc
 ools HU2-8900
 209 Blackmore Alice Mrs @
 HU2-0131

PARK N—Contd
 211 Mumby Nina M
 215 Mattarolo Jos jr @
 HU2-7219
NYCRR crosses
High intersects
 301 Ypsi Bufling Corp
 HU2-9206
 Webb Robt L
 302 Alfred John B @ HU2-6473
 309 Haner Corbett R @
 HU2-7619
 310 Barber Milford O
 482-0014
 314 Stamper Randall D @
 HU3-2736
 315 Palmeri Cath M Mrs @
 HU2-1671
 318 Dugan Larry R
 HU3-4251
E Cross intersects

2
PARK S—From 300 E Michi-
 gan av south
 9 Salvation Army The
 HU2-4700
Parsons intersects
 101 Taylor Merrell D
 105 K of P Hall
 Queen City Lodge No 167
 (KofP)
 Huron Temple No 66
 Pythian Sisters (KofP)
 109 Bassett Marjorie D Mrs @
 HU3-2877
 115 Collins Henry E
 Baccus Rose E Mrs
South begins

14
PARKWOOD AV—From 206
 Ecorse rd east
 823 Kempf Walter A @ HU3-
 0826
 824 Herndon Jessie
 834 Farmer Clarcy Mrs @
 HU3-2576
 842 Moyer Anna M Mrs
 843 Hudson Walter M @
 HU2-8951
 855 Slagle Wm H HU3-1681
 856 Hoffman Richd C HU3-
 0875
 rear No Return
 874 Raymond Geo E HU3-4562
 875 Griffin Wm W HU2-7445
 885 DeNo Guy W @ HU2-7259
 890 Pruett Wm W @ HU2-9506
 891 Oehmeke Karl @
 894 Mincey Luther W @
 HU3-2578
 900 Horn Theo @ HU2-6941
 901 Barnhart Chas E @
 HU3-0748
 914 Salyer Grady @ HU2-2348
 915 Kirk Leonard H @
 HU2-2886

928 Hills Robt L @ HU3-2875
 929 Under Constr
 938 Vacant
 939 Cotner Al Mason Contr
 HU3-4908
 Cotner AH C @ HU3-4908
 954 Wright Wendell E
 Cazier Clyde G @ HU3-
 4161
 Cazier Kennels HU3-4161
 966 Varney Verno @
 968 Hogrete Donald A @
 HU3-4055
 970 Bemis LeRoy J
 992 Denham Ralph K
 Pepper Raymond O
 993 Turner Homer C @
 HU2-8987
Oaklawn blvd intersects
 1011 Hall Billy HU3-3799
 1014 Miller Wilson @
 1021 Blackburn Chas E @
 HU3-5919
 1022 Hulett Emma Mrs @
 HU2-8601
 1033 Harrington Gordon W @
 HU2-1123
 1035 Collins Mark D @
 HU3-2274
 1039 Reeves Chas A @ HU2-
 1286
 1040 McClure Lulhe Mrs @
 HU2-8633
 1044 Stoddard Fred R HU3-
 5053
 1045 Slater Elmer R @
 HU3-1443
 1055 Cline Roy @ HU2-0731
Rosewood av intersects
 1104 Horton Arth J @ HU2-
 2090
 1110 Hamlett Woodrow J @
 HU2-3264
 1115 Egbert Ralph H @
 HU3-1237
 1116 Sanders Alf G HU2-9530
 1117 Norton Isaac N @
 HU2-6999
 1122 Varney Geo W @
 1128 Bevins Perle B @
 HU2-2955
 1132 Acre Ernest L @ 483-
 1053
 1133 Schock Benj J @
 HU2-0416
 1135 Oman Virgil L @
 HU2-3717
 1136 Whittington Wm M @
 HU3-0917
 1146 Hall Earnest J @
 1155 Daniel Dayton R @
 1156 Greer Roy E @ HU2-1089
 1165 Allen Fred @ HU2-8097
 1166 Copeland Jesse M @
 HU2-6852
Glenwood av intersects
 1208 Mull Jas R @ HU2-8233
 1218 Coom r Roscoe jr @
 HU2-0850

OUTER LANE DRIVE—Contd
 233 Dodgens Jesse Jr
 236 Pearce Melvin I @ Δ HU20008
 237 Smith Mary E Mrs @
 Δ HU28760
 241 Ingram Chas @ Δ HU28416
 242 Broyles Jesse Jr @ Δ HU30838
 245 Tipper Willie H @ Δ HU28719
 E Michigan av intersects

OUTER LANE DRIVE S — From
 Ypsilanti Expressway south to
 Lakeview dr
 1730 Riggs John J @ Δ HU21455
 1750 Kovacs Jesse @ Δ HU32867
 William av intersects
 1828 Spangler Wm L Jr @
 Δ HU32453
 1983 Conley Don G @ Δ HU32801
 Lakeview dr intersects

OWENDALE AV — From 1210 S
 Congress north to Washenaw av
 North Sherman intersects
 224 Porter Donald H @
 Δ HU26029
 234 Moore Thos E @ Δ HU24542
 349 Buclow Jas G @ Δ HU28544
 359 Batterson Louis G @
 Δ HU24447
 360 Fitzharris John E @
 Δ HU22496
 Sherman intersects
 Grant intersects
 Westmoorland rd intersects
 Cross blvd intersects

460 Wolter Fred O @ Δ HU28016
 461 Thompson Elgie E @
 Δ HU21674
 464 Czap Lawrence @ Δ HU22583
 405 Morrison Homer J @
 Δ HU20441
 466 Shipperley David L @
 Δ HU21504
 469 Candiotu Raymond A @
 Δ HU21794
 472 Hausnauer Wayne J @
 Δ HU21402
 475 White Robt H @ Δ HU21795
 480 Starvas Jack J @ Δ HU22332
 481 Leabu John @ Δ HU28032
 Washenaw av intersects

OXFORD ROAD—From 1200 Roose-
 velt blvd northeast to Kingwood av,
 1 east of Cambridge rd
 703 Johnson Bruce C @
 Δ HU20088
 706 Barense Wm D @ Δ HU30018
 707 Jackson Paul E @ Δ HU21490
 708 Stone Marlon F @ Δ HU28445
 710 Fogle Fred W @ Δ HU23837
 712 Krause Willis A @ Δ HU30014
 713 Fagerstrom Simon E @
 Δ HU26551
 714 Martin L A @ Δ HU25045
 716 Coons Chas P @ Δ HU34095
 718 Harrison Bert E @ Δ HU26058
 719 Hankinson O Allen @
 Δ HU27819
 721 Gardner D Neil @ Δ HU25887
 722 Adams Geo E @ Δ HU20896
 723 Mungler John W @ Δ HU21889
 727 Moorman Robt O @ Δ HU23441
 Kingwood av intersects

PACKARD ROAD—Continuation of
 Cross blvd from city limits west
 bey Rice av
 1550 Roopas John
 Marion av begins

PACKARD ROAD—Continuation of
 Cross blvd from city limits west
 bey Rice av
 1550 Roopas John
 Marion av begins

Fur and Garment STORES
Trojan Laundry & Cleaners
 75 Catherine Street
DRIVE-IN
 at
 20 N. Adams
PHONE HUNTER 2-8530

1602 Agosti Abma Mrs @
 Δ HU30455
 Courtland begins
 Stratford rd begins
 Berkley av begins
 1866 Rosbach Pearl Mrs @
 Δ HU23669
 1885 Bingner Geo W @ Δ HU22666
 1886 Rice J Hale @ Δ HU23668
 Kewance begins
 1960 Gundrum Carl R @ Δ HU23035
 Rosedale av begins
 N Hewitt rd intersects
 2236 Cornell Jas A @ Δ HU29876
 2295 Krist Harvey A Rev @
 Δ HU33480

2302 Seleska Fred C @ Δ HU27299
 Brookside begins
 Valley dr begins
 2490 LaDuc Alton E @ contr bldg
 genl Δ HU27279
 Edison av ends
 2520 Sanderson Jas E @ Δ HU33460
 2547 Vivian Lewis @ Δ HU27320
 Hiltcrest blvd ends
 2550 Drake Edw @ Δ HU23029
 2561 Detroit Edison Co (pumping
 sta)

2780 Keller Marie Mrs @
 Δ HU39336
 Dexter begins
 2800 Vacant
 Bergen av begins
 2950 Hones Donald F @
 Δ HU22385
 2955 Washenaw Country Club
 Δ HU33110
 Rice av begins

PARK N — From 300 E Michigan av
 north to E Cross
 10 Vacant
 14 Burrell Margt Mrs @
 Δ HU24946
 Rabbitt intersects
 103 LaCombe Francis J @
 Δ HU25583
 104 Boatwright Pearl E Mrs @
 Δ HU30143
 110 Allen Eleanor I @ HU32586
 Auberry Lester E @
 114 Wluettes Barbara Mrs @
 Δ HU28793
 North av intersects
 201 Silkworth D M Distr Inc
 ohis Δ HU28900
 209 Blackmore Alice Mrs @
 Δ HU20131
 211 Myers Winifred G @ HU30280
 215 Mattiarolo Jos @
 NYCRC crosses
 High intersects

301 Bessent Flake S
 302 Alfred John B @ Δ HU26473
 309 Haner Corbett R @ Δ HU27619
 310 King Donald L @ HU31150
 314 Foster Eliz S Mrs
 Δ HU21513
 315 Palmieri Cath M Mrs @
 Δ HU21671
 318 Tucker Vera Mrs @ HU26066
 E Cross intersects

PARK S — From 300 E Michigan av
 south to South
 9 Salvation Army Δ HU24700
 Parsons intersects
 101 Holder Irv L Mrs @ HU20236
 105 KoPf Hall
 Queen City Lodge No 167
 (KoPf)
 Huron Temple No 66
 Pythian Sisters

1602 Agosti Abma Mrs @
 Δ HU30455
 Courtland begins
 Stratford rd begins
 Berkley av begins
 1866 Rosbach Pearl Mrs @
 Δ HU23669
 1885 Bingner Geo W @ Δ HU22666
 1886 Rice J Hale @ Δ HU23668
 Kewance begins
 1960 Gundrum Carl R @ Δ HU23035
 Rosedale av begins
 N Hewitt rd intersects
 2236 Cornell Jas A @ Δ HU29876
 2295 Krist Harvey A Rev @
 Δ HU33480

2302 Seleska Fred C @ Δ HU27299
 Brookside begins
 Valley dr begins
 2490 LaDuc Alton E @ contr bldg
 genl Δ HU27279
 Edison av ends
 2520 Sanderson Jas E @ Δ HU33460
 2547 Vivian Lewis @ Δ HU27320
 Hiltcrest blvd ends
 2550 Drake Edw @ Δ HU23029
 2561 Detroit Edison Co (pumping
 sta)

TEACHOUT MOTOR SALES
 Formerly Yes Body Shop
DODGE CHRYSLER IMPERIAL AUTOMOBILES
 Phone HUNter 3-4910
INTERNATIONAL TRUCKS 1248 E Michigan
 Phone HUNter 3-4913
 "The House That Service Built"

PARK S—Contd
 109 Bassett Marjorie D MIs @
 Δ HU32877
 110 Vacant
 114 Bonds Elmer W @ HU20629
 115 Vacant
 South begins
 14

PARKWOOD AV — From 206 Ecourse
 rd east to Ohio av @ Δ HU30826
 823 Kempf Walter A @ Δ HU30826
 834 Farmer Douglas W @
 Δ HU32576
 842 Jorgensen LaVerma @ HU27267
 843 Hudson Walter M @
 Δ HU28951

855 Brixey Roy S @ Δ HU23329
 856 Cook Olen @ Δ HU33848
 874 Vacant
 875 Verville Fred J @ HU21543
 880 Guy W @ Δ HU27259
 890 Horn Theo Jr @ Δ HU31346
 891 Oehmke Karl @ Δ HU30829
 894 Mincey Luther W @
 Δ HU32578
 900 McClure Thos D @ HU21144
 914 Salyer Grady @ Δ HU22348
 915 Kirk Leonard H @ Δ HU22886
 928 Howling Roy E @
 938 Vasher Dan C @ Δ HU22106
 939 Cotner Alf C @ Δ HU22106
 954 Stephens Wade E @
 965 Cagier Clyde G @ Δ HU30990
 966 Mayzes Saml J @
 968 Hogrete Donald A @
 Δ HU34055

970 Hogrete John H @
 992 Brendum Ray @ HU33983
 Brown Haven
 993 Turner Homer C @ Δ HU28987
 Oaklawn blvd intersects
 1011 Miloway Andrew J @ HU21788
 1014 Handley Trucking @ HU28030
 Handley Harold V @ HU25030
 1022 Hulett Gardner S @
 Δ HU28601
 1033 Harrington Gordon W @
 Δ HU21123
 1039 Reeves Chas A @ Δ HU21286
 1040 McClure Henry A @ Δ HU28633
 1044 Pruitt Chester P @
 Δ HU21571
 1045 Slater Elmer R @ Δ HU31341
 1055 Chne Roy @ Δ HU20731
 1104 Horton Arth J @ Δ HU22090
 1110 Hamlett Woodrow J @
 Δ HU23264
 1115 Egbert Ralph H @ Δ HU31237
 1116 Duberville Jos W @ Δ HU22923
 1117 Norton Isaac N @ Δ HU28672
 1122 Sodzke Michl @ Δ HU22955
 1128 Bevins Perie B @ Δ HU21099
 1132 Acree Ernest L @ Δ HU20416
 1133 Shock Benj J @ Δ HU20416
 1135 Oman Virgil J @ Δ HU23717
 1136 Whittington Wm M @
 Δ HU30917
 1146 Newman Marvin V @
 Δ HU28319
 1155 Daniel Dayton R @
 Δ HU28275
 1156 Greer Roy E @ Δ HU21089

S Harris rd intersects
 Greenlawn av intersects
 1461 Kimball Lloyd F @
 1462 Stanley Chas E @
 Woodlawn av begins
 Hayes av begins
 S Ford blvd intersects
 Kansas av intersects

1625 Vacant
 1635 Looker Fred J Jr @ HU31821
 1645 Vacant
 1655 Armstrong Donald P
 Δ HU27422
 1675 Jesse John B @ Δ HU31362
 Devonshire rd intersects
 Oregon av intersects

1754 Apartments
 1 Vacant
 2 Platt Bette J @ HU24795
 3 Kellogg Gary B @ HU21025
 4 Cruzen Robt A @ HU31542
 5 Vacant
 Dakota av intersects

1805 Apartments
 1 Gobie Bobbie D
 2 Fugate Phillip D
 3 Emberton Wm I
 4 Wardrop Mildred Mrs
 5 Massey Odus
 Street continued
 1825 LaPan Jack F @ Δ HU21264
 Ohio av ends

PARSONS — From S River east to
 S Grove, 1 south of E Michigan av
 102 Ypsi Iron & Mtl Co
 Δ HU21617
 109 Slagenwhite Cecil R
 Δ HU31376
 110 Vacant
 S Lincoln ends

OLIVE—Cont'd
310A Everard Richd @
312A Hoyt Raymond L @
313A Yanoschik Phillip

7
N Hamilton intersects
409A Baur Albert W @
410A Dunsdale Hugh
411A Servely Maurice F
Murphy Thos
414A Mouganis Nicholas @
415A Burkbeiser Lenore @
416A Arnet Edw @
417A Ryan Wm T @
418A Prest Wm E @
Ballard intersects

9
ORCHARD—From Hill south to 40
Frederick
148A Weathers Marshall @
150A Weathers Josh Jr @
317 No return
318A Milligan Wm @
319 No return
322 Brown Pyreane
326 Dumvant Odell @
349A Bates Wm
351 Davis Lee
353 Davis Jas
355 Vacant
Franklin intersects (not open)
Short begins

420 Vacant
422 Stewart Sarah Mrs
424A Woolard Willie
426 Powell Rufus
Crownie Eddie Mrs
435A Curtis Homer C @
437A Mayhawk Lindsey @
Frederick intersects

14
ORCHARD AV — Changed to Montreal av

23
ORCHARD DRIVE (Club View Sub-division) — Changed to Hillcrest blvd

10
OSEAND—From 721 E Cross north to Forest av
416 Model House
444 Vacant

Heien ends (not open)
506 Vacant
507A Gillentine Martin H @
Oak intersects (es not open)
601A Elder Richd M @
603A Seidl Julia Mrs
Virginia pl ends

605A Beck Jay K @
608A Griffith Francis H @
E Forest av intersects

PACKARD ROAD—Cont'd
1866A Rossbach Burnie @
1886A Rice Jas H @
Kewanee begins (not open)

1960A Gundrum Carl R @
Bellevue av begins (not open)
2236A Cornell Jas A @
N Hewett rd intersects
2302A Seleska Fred C @
Hillcrest blvd ends
2520A Sanderson Jas E @
2547A Vivian Louis @
2550 Drake Edw @
2561 Detroit Edison Co (pumping sta.)
Club View dr ends
2780A Keller Herman @
Dexter av begins
Betgen begins
2950A Hones Donald @
2955A Washtenaw Country Club
A Green Jack W
Rice av begins

4
PARK N—From 300 E Michigan av north to E Cross
14A Burrell Body Shop auto repr
12A Burrell Margt Mrs
Babbitt intersects
103 White Hubert G @
104A Boatwright Arth J
110A Tucker Preston T @
114A Willetts Barbara H Mrs @
North intersects
201A Silkworth Oil Co Inc whol
209A Blackmore Alice Mrs @
211A Myers Wilfred
215 Mattarolo Jos @
NYC Sys crosses
High intersects

301 Vacant
302A Alford John B @
309A Haner Corbett R @
310A King Donald L
314 Mahoney Marshall G @
315A Palmieri Jos J @
318A Morse Agnes @
E Cross intersects
2
PARK S—From 300 E Michigan av south to South
9A Salvation Army
Parsons intersects
101A Mmzghor Beatrice Mrs @
105AK of P Hall
A Queen City Lodge No 167
A Huron Temple No 66 Pythian Sisters
109A Basset Marjorie Mrs @
110A Hines Chas cabt shop
114A Bonds Elmer W
115A Combs Wm @
116 Vacant
South begins

ROSEWOOD AV—From 200 Emerick east to Glenwood av
823A Kempf Walter A @
824A Salyer Jay @
842A Losee Jay G @
855A Brixey Roy S @
856A Boone Geo O @
Frymuth Edmond
874 Brendum Reynold A @
875 Vacant
885A DeNo Guy W @
890 Horn Theo @
891A Oehmke Karl W @
894A Mincey Luther W @
900A Shepherd Franklin J @
925A Merritt Chester W @
928A Whittington Elmer F
938A Vasher Danl C @
954 Vacant
965A Casier Clyde G @
966A Richmond B L @
968A Rhomehart Wm R @
970A Hogrefe John H @
992A Ulinder Harold
Oaklawn blvd intersects

1011A Morton Willard C @
1014A Turner Clare W @
1022A Hulet Gardner S @
1033A Harrington Gotdon W @
1039A Reeves Chas A @
1040A White Florence E Mrs @
1044A Sherwood Irene Mrs @
1045A Slater Elmer R @
1055A Cline Roy @
Rosewood av intersects
1115 Egbert Ralph H @
1117A Colby Emrl B @
1122 Sodzke Michl
1133 Rhodes Carrie P Mrs @
1135A Oman Virgil L @
Glenwood av intersects

2
PARSONS—From S River east to S Grove, I south of E Michigan av
102A Ypsilanti Iron & Metal Co
109A Slagenwhite Cecil R
110A Hartwick-Wescott Lbr Co
S Lincoln ends
202A Widener Barney
208A Cattermole Ruth E @
212A Hines Chas @
S Park intersects
310A Couch Leo
312A Burrell Fredk E @
314A Gretzner Ray A
316 Cooley Henry H @
318A Thilo Jack F
322A Welch Cecil C @
S Grove intersects
PEARL—From 100 N Huron west to N Hewett rd (not open between Mansfield av and Valley dr)
108 Hing Lee Lndry
Lee Hing

14
OTTAWA—From Orchard av east to Oaklawn blvd, I north of Belleville-Tyler rd
914 Peterson Warren L @
915A Hadley Rupert J @
928A Leshe Francis W @
A Musselwan Thiel M
933A Lehtomaki Toivo @
935A Davis LeRoy A @
936A Gerber Carl E
938A Davis Bernard L @
950 Runyon Willard W
963 Bennett R. T @
975A McCullough Abajah A @
976A Rupert Archie L @
Oaklawn blvd intersects

19
OWENDALE AV—From 1210 South Congress north to Washtenaw av
North Congress intersects
Sherman intersects
224A Porter Donald H @
234A Bennett Max @
349A Buelow Jas G @
359-(437)A Elewine Warren @
360A Fitzharris John E
Sherman intersects
Grant intersects
Westmoreland rd intersects
Cross blvd intersects
21
Washtenaw intersects
City limits

21
OXFORD ROAD—From 1200 Roosevelt blvd, 7 northeast of Kingwood av, I west of Collegewood dr
703A Whalen John E
706A Lotz John F @
707A Jackson Paul E @
708A Stowe Marion F @
710A Kraus Willis A @
712A Smith Albert E @
713A Fagerstrom Simon E @
714A Martin Lemuel A @
716A Coons Chas P @
718A Harrison Bert E @
719A Hankinson O Allen @
721A Gardner D Neil
722A Adams Geo E @
727A Moorman Robt O @
Kingwood av intersects

23
PACKARD ROAD—Continuation of Cross blvd from city limits west beyond Rice av
Douglas av begins
Marion av begins
1602A Agosti Laurino F @
A Congdon Donald R
Carpenter Geo
Courtland av begins (not open)
S Stratford rd begins (not open)
Berkley av begins (not open)

LANDY FURNITURE CO.

OAK—Cont'd
 616ΔStewart Anna Mrs @
 618 Free Methodist Church
 620ΔBritton Jos J Charles intersects
 701ΔJordan H Glen @
 702ΔKinsey Arth J @
 708 Vaders Guy
 705ΔBasset Curtiss D @
 706 Brice Donald
 707 Brice Arth W
 711ΔHancock Effie L Mrs @
 712 No return
 715ΔAmoreaux Raymond M @
 718 White Chas

(Not open between Holmes and N Ivanhoe av)
 N Ivanhoe av intersects
 1385ΔReed Jas E @
 N Mohawk intersects
 N Miami intersects
 N Harris rd intersects

14
 OAKLAWN BLVD—From 1000 Hawthorne south to Belleville-Tyler rd
 155ΔCook John @
 165ΔTate Rexford @
 195ΔMorton Isaac B @
 209ΔMcDermott Chas J @
 217ΔHorn Theo @
 229 Farr Clarence F @
 232ΔDusz Chas G @
 244ΔMulligan Rov @

430 Zyronski Roman
 Ecorse rd intersects
 Auburndale av ends
 520ΔWyle Thos @
 434 Turchi Louie @
 544ΔShelton Chas O @
 550 Vacant

Ottawa ends
 604ΔAnderson Wm E @
 624ΔLucaido Wm B F @
 Belleville-Tyler rd intersects

19
 OAKWOOD AV — From 1100 Congress north to Cross blvd
 1 Denton Oran @
 5ΔMead Zeraid L @
 7ΔNessly Fred H @
 8ΔKunze Neil J @
 9ΔWilks Melvin J @

Pearl intersects
 90ΔJohnston Leo T @
 91ΔMast Rodney R @
 92ΔJohnson Gene @
 93ΔBreed Carrell M @
 94 Hahn Wm
 95ΔVanDuzen Eric H @
 96ΔVirtue John B @
 97ΔSharp Oris @
 98ΔCox Olin J @ Grant intersects
 105ΔMorgan Hayden M @
 106ΔScrivens Ralph C @

107ΔHaight Henry
 108ΔMiller Frank L @
 109 Foster Robt J @
 110 Shafer H Fred Jr
 115ΔPalmer Herbert V @
 Sherman intersects

201ΔSchooley Jesse @
 203ΔTuttle Glen
 205ΔParne Wm
 208ΔWarren Vern
 210ΔGreenstreet Fredk M @
 211ΔSutton Ila C Mrs @
 212ΔExelby Carl @
 213ΔDavis Leslie @
 214 Aldrich Aaron
 215ΔMarsh Thorwald F @
 215 1/2 Wilson Ernest
 216ΔLyttle J T @ Sheridan av ends

217ΔJohnson Arth L @
 219ΔMcDermott Thos J @
 229ΔWoung Bertha E Mrs @
 230ΔSinclair Everett D @
 232ΔFreeman Chas A @ pnt
 Cross blvd intersects

3
 OLIVE—From 500 N Washington west to Ballard
 206ΔWilliams Ray C @
 207ΔSchaab Alf H @
 208ΔWalters Thurman A @
 211ΔHeaton Hassel L @
 211ΔHeaton Hassel L @ N Adams intersects
 310ΔEverard Richd @ Mrs @
 312 Swanson Hilda A Mrs @
 ΔBellinger Jos J
 313ΔAlban Carl F @

7
 N Hamilton intersects
 409ΔBaur Albert W @
 410ΔDinsdale Hugh
 411ΔOge Thytha E Mrs @
 414 Mougamis Nicholas @
 415ΔBurkheiser Lenore @
 416ΔArnet Edw @
 417ΔRyan Wm T @
 418 Prest Wm @ Ballard intersects

9
 ORCHARD — From Hill south to 40 Frederick
 148 Weathers Marshall @
 150ΔWeathers Josh Jr @
 208 Charlton Wm @
 301ΔKaseberg Harry C @
 ΔWeaver Evelyn Mrs
 317 Freeman Caleb B
 318 Vacant
 319 Vacant
 322 Brown Pyrene @
 325 Dumvart Odell @
 355 Hurrant David M @ (not open)
 Franklin intersects Short begins

435ΔCurtis Homer C @
 437ΔMayhawk Lindsey @
 Frederick intersects

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City, County, State and National Directory Publishers
 Offices in Principal Cities

2780ΔKeller Herman
 Dexter av begins
 Bergen begins
 2950ΔHones Donald @
 2955ΔWashtenaw Country Club
 Rice av begins
 2150 Vacant

PARK N—From 300 E Michigan av north to E Cross
 14ΔBurrell Perry A @
 Dunn Harold
 103 White Hubert G @
 104ΔBoatwright Arth J @
 110ΔTucker Preston Jr
 114ΔWilletts Chas W @
 North intersects

2000ΔGulf Refining Co (bulk sta)
 209ΔBlackmore Alice Mrs @
 211ΔHousman Maynard J
 215 Mattiarolo Jos @ MCRB crosses
 High intersects
 301ΔFuller Robt G @
 302ΔAlford John B @
 309ΔHamer Corbett R @
 310 King Donald L
 314ΔEsslinger Albert F @
 315ΔPalmeri Jos J @
 318ΔMorse Agnes @ E Cross intersects

PARK S—From 300 E Michigan av south to South
 9 Salvation Army
 Parsons intersects
 109ΔBassett Iba S @
 110ΔHines Chas mill wkr
 114 Bauer Wm C
 115 Acre Geo E @
 116ΔUS Truck Co South begins

PARKWOOD AV—From 200 Emerick east to Glenwood av
 823ΔKemp Walter A @
 824 Fauser Verne @
 822ΔLosee Jay C @
 855ΔBrixey Ray S
 856 Vacant
 874 Hubbell David E @
 875 Wheeler Geo @
 885ΔDeNio Guy W
 890ΔMincey Luther W @
 891ΔOehmke Karl W @
 900ΔBoone Geo O @
 925ΔMerritt Chester W @
 928ΔMarsh Thos C @
 938 Durham Harold L
 954 Miller Wilma F Mrs
 965ΔCzazer Clyde G @
 966 Vacant
 968ΔRhinehart Chas @
 970ΔMartin Raymond E @
 972 Avery Ida M Mrs
 Oaklawn blvd intersects

1011 Morton Willard C @
 1014ΔTurner Clare W @
 1022ΔHullett Gardner S @
 1033 Harrington Gordon W @
 1039ΔReeves Chas A @
 1040ΔWhite Wm @
 Johnson Fredk
 1044ΔSherwood Irene Mrs @
 1045ΔSlater Elmer R @
 1055 Cliné Roy
 Rosewood av intersects

14
 ORCHARD AV—From 900 Ecorse rd south to Belleville-Tyler rd
 Auburndale av intersects
 Ottawa begins
 611 Johnson Jas
 Belleville-Tyler rd intersects

23
 ORCHARD DRIVE (Club View Sub-division)—From junction of Ford and Hillcrest blvd north to Summit av, 1 east of Club View dr
 301ΔKaseberg Harry @

14
 OTTAWA—From Orchard av east to Oaklawn blvd, 1 north of Belleville-Tyler rd
 933 Vacant
 934 Vacant
 935 Vacant
 938 Gerber Carl E
 938 Davis Bernard @
 960 Runyon Willard
 963ΔByrne N C bldg contr @
 975ΔMcCullough Abijah A @
 976 Beadsley Percy L @
 Oaklawn blvd intersects

19
 OWENDALE AV—From 1210 South Congress north to Washtenaw av
 North Congress intersects
 Sherman intersects
 404ΔPorter Donald H @ Grant intersects
 Sherman intersects
 Westmoreland rd intersects
 Cross blvd intersects
 21
 Washtenaw intersects
 City limits

21
 OXFORD ROAD—From 1200 Roosevelt blvd, 7 northeast of Kingwood av, 1 west of Collegewood dr
 703ΔGreenway Guerdon D @
 707ΔJackson Paul @
 713ΔPagerstrom Simon E @
 716ΔDyhan Harry A @
 718ΔHarrison Bert E @
 722ΔAdams Geo E @
 Kingwood av intersects

23
 PACKARD ROAD—Continuation of Cross blvd from city limits west beyond Race av
 Douglas av begins
 1602ΔAgostini Laurino F @ restr
 Courthand av begins (not open)
 Stratford rd begins (not open)
 Berkley av begins (not open)
 1885ΔSchuster Florentin A
 1860ΔRossbach Burnie @ bldg contr
 Kewanee begins (not open)
 1960ΔGundrum Carl E @ roofer
 Rosedale av begins
 Bellevue av begins (not open)
 2302ΔSeleska Fred C @
 Hillcrest blvd ends

25247ΔVivian Louis @
 2550 Drake Edw @
 2561 Detroit Edison Co (pumping sta)
 Club View dr ends

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2520 Vacant
301 Drake Edw (pumping sta)
2561 etroit Edison Co. Club View dr ends
2789 Keller Herman Dexter av begins Bergen begins
2950 Hibbard Jos Country Club
2955 Washenaw Rice av begins
2150 Schill Leon E
4617 Dykman Edw
PARK N--From 300 E Michigan av north to E Cross
Durrell Perry A
Lincoln H Oscar
McKenzie Chas W
Babbitt intersects
103 White Hubert G
104 Boatwright Arth J
110 Holmes Chas M
Yps Mach & Tool Co
ATucker Wm S
114 Willetts Chas W North intersects
200 Gulf Refining Co (bulk sta)
203 Frank Walter A
205 Caristanos Anthony D
209 Briggs Louis M
211 Housman Maynard J
215 Mattiarolo Jos MORR crosses High intersects
301 Fuller Robt G
302 Alford John B
309 Haner Corbett R
310 Kalbe Win E
314 Essinger Albert F
315 Palmeri Jos J
318 Morse Agnes E Cross intersects
PARK S--From 300 E Michigan av south to South
9 Salvation Army Parsons intersects
109 Bassett Ida S
114 Hines Chas
115 Moyer Benj I
116 US Truck Co
PARK AV E--From Russell south 4 east Harris road
155 George Woodrow
161 Timmons Leo R
162 Hatcher Elmer A
174 Crebo Herdie B
185 Clough Raymond W
211 Deremiah John A
219 Handlogten Benj G
223 Brodd Chester A
227 Handlogten Henry
280 Foster Ralph
295 Mulkspaugh Fred C
322 Daschner Theo E
357 Richard Martha Mrs

ORCHARD--Contd
301 Weaver Evelyn Mrs
317 Smith Nathan H
318 Campbell intersects (not open) Short begins
435 Curtis Homer
437 Mayhawk Lindsey Frederiek intersects
ORCHARD AV--From 900 Ecorse road south to Belleville-Tyler road (No houses)
Auburndale av intersects
Belleville-Tyler rd intersects
ORCHARD DRIVE (Club View Sub-division)--From junction of Ford and Hillcrest bld north to Summit av, 1 east of Club View drive
OTTAWA--From Orchard av east to Oaklawn bld, 1 north of Belleville-Tyler road
928 Vacant
935 Davis A LeRoy
963 Duskey Arnold D
975 McCullough Abjahn A
976 Beardley Percy L
Oaklawn bld intersects
OWENDALE AV--From 1210 South Congress north to Washenaw av
North Congress intersects
Pearl intersects
Grant intersects
Sherman intersects
404 Porter Donald H rd intersects Westmoreland rd intersects
Cross bld intersects
Washenaw City limits
OXFORD ROAD--From 1200 Roosevelt bld, 7 northeast to Kingwood av, 1 west of Colledge wood dr
703 Green Jos
707 Climer Jos H
713 Fagerstrom Simon E
718 Harrington Bert E
Kingwood av intersects
PACKARD ROAD--Continuation of E Cross bld from city limits west beyond Rice av
Douglas av begins
Marion av begins
1602 Agosta Laurino F
Courtland av begins (not open)
Stratford rd begins (not open)
Belkley av begins (not open)
1885 Hilton Geo E
McCarrly Burton G bldg contr
1886 Frossbach Burnle (not open)
Kewanee begins (not open)
Rosendale av begins
Bellevue av begins (not open)
N Hewitt rd intersects
2302 Seleska Fred C
Hillcrest bld ends

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PARSONS--From S River east to S Grove, 1 south of E Michigan av
Hartwick-Westcott Lumber Co
102 Ypsilanti Iron & Metal Co
109 Zimmerman Emma L Mrs
202 Cooper Robt E
Acrc Geo E
Raymond Florence A
208 Cattermole Wm H
212 Parsons Gertrude L
Heare Jas T
S Park intersects
301 Dahl Albert
314 Miller Lloyd D Farmer begins
316 Cooley Henry H
318 Stoter Mendel W
322 Hupp Louis W
PEARL--From 100 N Huron west to N Hewitt road (not open between Mansfield av and Valley drive)
105 Ward Lloyd H
108 Lee Hing Laundry
110 G A R Hall
Daughters of Union Veterans of the Civil War
Queen City Have L O T M
Women's Relief Corps No 65
Slater John H
Slater Mabel E Mrs caretkr
111 City Gas Dept
113 City Engineering Office
A State Employment Service
114 Congdon A R & Sons hdw rear Dietrich H Erwin shirt mkr
115 Hankinson O A & Co plmbrs
ASolier Matthew E plays
117 Vacant
119 Sima Frank F tailor
120 Freeman Earl L real est and ins
123 United Service Organization Travelers & Service
ne cor Huron Hotel The
Ypsilanti Hotel Co
A A Yps Division Auto Club of Mich
A Auto Club of Mich A A A (Yps Branch)
Detroit Auto Inter-Insurance Exchange
Kiwanis Club
Rotary N Washington intersects
204 Carly's Music Box
209 Michigan Bell Telephone Co
212 Wiedman E G Auto Co
216 Dodge Cora J Mrs
Dodge Harry L
220 Seime Reuben I phys N Adams intersects
305 Vanty Shoppe beauty shop
305 Myers Ronald E
Mich Bell Telephone Co

PARK AV E--Contd
386 Kinsey Orville J
374 Spencer Glenn F
PARK AV W--From Russell south 3 east Harris road
1 Wright Eng J
206 Gauthier Orville
260 Lossey Carl O
264 Vacant
286 Avery Edwin N
315 Fee Edwin F
366 Houck John C
382 McDonald Geo W
Wilson Christopher
388 Cary Howard W
392 Wilson Chrsty
408 Reed Loyd F
PARKWOOD AV--From 200 Emerick east to Glenwood av
823 Kemp Walter A
824 LaChance Wm F
842 Losee Jay C
855 Drake Cecil L
874 Hubbell David E
875 Downing Fannie Mrs
880 DeNio Guy W
895 Mincey Luther W
891 Oehmke Karl W
Wheeler Jesse G
900 Boone Geo O
925 Merritt Chester W
Burnett John
Foulton Richd L
928 Maltby Gordon E
Maltby Lucy Mrs
938 Vasher Danl
Durham Harold L
954 Cotner Alf
965 Cazer Clyde G
966 Burnett Herbert E
968 Rumblehart Chas M
970 Pitman Cecil E
982 Avery Noel W
Every Ida M Mrs
Evans Chas E
Oaklawn bld intersects
1011 Fisher Robt L
Morton Willard C
1014 Turner Clare W
1022 Huett Gardner S
1033 Harrington Gordon W
1039 Reeves Chas A
1040 McM Hale Andrew A
1044 Sherwood Howard H
1045 Beitman Erwin E
1055 Cline Roy
Rosewood av intersects
1115 Egbert Ralph H
1117 Coe Jarvin R
1122 Farr Clinton E
1133 Rhodes Carrie P Mrs
Breuer Perry
Magee Jesse
1135 Farr Delbert D
Glenwood av intersects
1715 Thompson Josephine Mrs

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ORCHARD — From 40 Frederick north, 1 east of First, av
70 Lyburitus Jacob T
319 Crosby Geo H

ORCHARD AV — From Belleville rd north to Auburndale av, 1 east of Emerick
No houses
Ottawa av intersects Auburn av intersects Ecorse rd intersects

OTTAWA — From city limits east to Oaklawn Blvd, 1 north of Belleville rd
921 Preston Jas J
935 Davis A LeRoy
935 Hoyt Arth

OWENDALE — From Washtenaw av south to S Congress, 1 east of city limits
No houses

OXFORD ROAD — From intersection of Collegewood av and Roosevelt Blvd north to Kingwood av
703A Bonninghausen Herman
707A Chimer Jos H
713A Ragerstrom Simon E
718A Dushber Glen O

PARK N — From E Michigan av north, 3 east of Huron River
14 Mitchell Wm J

PARK N — From E Michigan av north, 3 east of Huron River
14 Mitchell Wm J

Babbitt intersects
103 White Hubert G
104 Boatwright Arth J
110A Holmes Chas M
114W Willets Chas W

North intersects
200 Silkworth D M Oil Co (bulk plant)
201 Vacant
203 Frank Walter F
205 Carsthanos Anthony
209 Briggs Louis N
211 Vacant
213 Vacant
215 Yeager Herbert W

MCRK crosses High intersects
301 Fuller Robt G
302A Alford John B
309 Price Theo J
310 Alford Martin M
314 Esslinger Albert F
315 Vacant
318A Morse Agnes

PARK S — From 302 E Michigan av south, 3 east of Huron River
101 Wise Jas B
109 Basset Iba S
114 Parker Jas F
115 Roe Nobel
Manzer Walter E

PARKWOOD AV — From Emerick east to Glendale Blvd, 2 south of MCRK
823 Kempf Walker A

824 Briggs Arth F
842 Losee Jay G
855 Drake Cecil L
874 Hubbell David E
875 Downing Wm C
885 Lewis Glenn A
908 Avery Elmer O
925 Merritt Chester W
938 Malby Gordon E
938 Vasher Danl
954 Earl Harold L
961 Gauthier Anna M
968 Preston Agnes B
992 Avery Noel W
Moultine Paul R

Oaklawn Blvd intersects
1014 Harmon Louis S
1022 Hulett Gardner S
1033 Edwards Ralph G
1039 Vacant
1040 Brandes Raymond J
1044 Sherwood Howard H
1045 Reno Clinton B
1055 Chne Roy

Rosewood av intersects
1115 Egbert Ralph H
1117 Stenke Paul
1122 James Henry W
1133 Rhodes Geo C

PARSONS — From S River east, 1 south of E Michigan av
ss Hartwick-Wescott Lumber Co
109 Zimmermann Emma Mrs

202 Bigger Thos W lunches
208 Cattermole Wm H
212A Parsons Gertrude L
Miller John A

S Park intersects
314 Dable Albert Farmer begins
316 Cooley Henry H
318 Hotchkuss Glen O
322 Hipp Louis W

PEARL — From 101 N Huron west, 1 north of W Michigan av
108 Lee Hing Indry
110 GAR Hall
Marks Lewis
Daughters of Union Veterans of the Civil War
GAR Post No 180
Queen City Have LOTH
Women's Relief Corps No 65
111-13 Vacant
114A Congdon A R & Sons hdw rear Vacant
115A Hankinson O A & Co plmbrs
117A Hopkins & Augustus radios
119A Sina Frank F mer tailor
120A Freeman Earl L real est and ins
123A Jackson Frank O coal ne cor
Huron Hotel The
Ypsilanti Hotel Co
A A Yps Division Auto Club of Mich
Auto Club of Mich A A A (Ypsi Branch)
Detroit Auto Inter-Insurance Exchange
ASmith Millard T ins

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YPSILANTI DIRECTORY OF HOUSEHOLDERS (1938) 287

Hodges Richd C
Kiwans Club
Rotary Club
Ye Coffey Shoppe
bsmt Townsley Orval E barber
N Washington intersects
204A Intl Correspondence Schools
209A Michigan Bell Telephone Co
212A Wiedman E G Auto Co
213 Collins Olin restr
216 Dodge Cora J Mrs
220A Harris Bradley M phys
N Adams intersects
305A Ypsilanti Printing Co
305 1/2 Brooks Harleston
Schaffer Herman
313 Smith S Allen Jr
314A Hang R Bruce
315 VanMeter Anna C Mrs
316A Simmons Ruth H Mrs
Sutherland Mary V Mrs
dtsmkr

N Hamilton intersects
410A McCann Margt M Mrs
411A Squier Alf E
414A James Nancy E Mrs
419A Nelson Clifford T
412A Corbelle Arth A
415 Bemiss Orrin J
416A O'Sullivan Jas A
417A BeCole Robt A
418A Northrup Arth H
419A Gandy Harold W
4A Gaudy Geo M
422A Lawrence Mabel M Mrs
Ballard intersects
501A Geer Vera Mrs
502A Beal Emery R
503A Glass Denton S
Orr Raymond H
504A Neer Chas E
507A Mott Milton B
508 Case Ervin O
Moran Elmer K
509 Johnston David
510A Norton Ada A
511A Miller Leonard J refrigera-
tor repr
Davis Emily Mrs
513A VanEtten John W
Gott Geo
516A Schaefer Lawrence E
517A Harris Mary L Mrs
Gharst Sarah E Mrs
Chamney Rex E
518 Reacke Clarence A
Perrin begins
601A Starkweather Clarence L
602A Quackenbush J Edgar
604A Yarnell C Euk
605A Ashon Lambert J
606 Apartments
bsmt Luoma Tauno
2A Frederick Margt M
3 Smith Donald W
4 Converse Harry R
Street continued
608 Laster Howard A
609A Ford Clyde
611A Smith Leo E
Sauers Harvey
Webster Donald
612A Buck Mary E Mrs

615 Cheeseman Edw
Ehnsen Allen M
AGillette Bessie Mrs
Nelson Sylvester E
616 Power Chas M
701A Pearl Beauty Shop
Morey Wm H
702A Matthews J Wynn
703A Sweet Ardon J
704A Tri Sigma Sorority
Cook May L Mrs
705 Ward Lloyd H
706 Tefft Amy E Mrs
707 Zimmermann John R
708 Sundburg Andrew R
Maxwell Roy V
709A Pulver Geo H
710A Nelson Wm A
712A Schlesinger Herbert E
715A Forster Edw E Jr
716A Brown Edith E Mrs
N Normal intersects
802A Hubbard Bert
803 Papworth Ralph E
805A Regetz Harry E
807 Berthold Edw
810 Apartments
1 Warner Nellie E Mrs
2 Vacant
3 Herrmann Ralph
4 Yeatman Chas
Summit intersects
903A Smith Judd C
Theta Sigma Upsilon Soror-
ity
907 Russell Leslie L
909A Matthews Ralph D
911A Alban Marjorie J Mrs
912A Lappinen Matthew
Speters John C
914A Holzhauser Alf H
916 Knack Herbert A
917A Teare Frank P
918 Miller Arth A
920 Hamilton Donald
922A Main Ward W
924A Kusterer Eliz A
929A Schrepper Robt E elec
931A Lamb Chas K
935A Scherzer Maude J Mrs
Elm intersects
1001A Smith Millard T
1003A Smith Russell F
1005 Gildard Harlow E
1006A Penker Hugo Rev
1007A Buyendorp Fredk
1008 Evans Earle V
1009A Cox Henry O bldg contr
1010A Haydon Wm C
1011A Earl Harvey J
Oakwood av intersects
1101A Fehrenbaker Beverly B
1103 Hewens Clare J
1104 Moore Claude E
1105A Shaver Carleton H
1108A Gots Helena Mrs
1107 Brown Arth R
1108 Ray Cyril J
1109 Congdon Sarah P Mrs
Chisel Arth J
1110A Manning Chester S
1114A Merritt Howard T



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PARK N — From E Michigan av north, 3 east of Huron River
14 Derry Willis O Rabbitt intersects
108 White Hubert G
104 Boatwright Arth J
110 Holmes Chas W
114 Willetts Chas W
North intersects
200 Vacant
201 Vacant
203 Frank Walter F
205 Bridges Sarah G Mrs
208 Wilber C V R
211 Vacant
213 Lastromko Carl
215 Swikoski Mich

C R R intersects
High intersects
301 Fuller Robt G
302 Alfred John B
309 Price Mary Mrs
310 Alfred Martin M
314 Esslinger Albert F
315 Anisicy Charlotte M Mrs
318 Morse Agnes

PARK S — From Michigan av E south, 3 east of Huron River
3 Dieroff Jos E
101 Wise Jas B
109 Bassett Iba S
114 Parker Jas F
115 Danforth Henry J

PARKWOOD AV — From Emerick east to Glendale blvd, 2 south of M C R R tracks
ns 1 e Kemp Walter A
ns 2 e Dennis Robt L
ns 3 e Downing Wm C
ns 4 e Lewis Glenn A
ns 5 e Collins Truman
ns 6 e LeBlanc Herbert G
ss 1 e Briggs Arth F
ss 2 e Losee Jay G
ss 3 e Vacant
ss 4 e Maltby Gordon E
ss 5 e Washer Danl
ss 6 e Barlow Wm B
ss 7 e Smith Chas F
ss 8 e Santura Leo P
East Side Chapel
Oaklawn blvd intersects
1014 Purdy Walter D
1022 Papke Emma C Mrs
1033 Cazier Gideon
1039 Reno Kenneth D
1040 Front Donald P
1044 Beckwith John
1045 Reno Clinton B
1055 Cline Roy

Rosewood av intersects
1115 Egbert Ralph H
1117 Skasklevitz Anthony
1122 James Henry W barber
1133 Rhodes Geo C

PARSON — From S River east, 1 south of E Michigan av
ss Hartwick-Wescott Lumber Co
109 Zimmerman Emma M S
Lincoln S ends

202 Stockwell Arth G
208 Cattermole Wm H
212 Parsons Gertrude L
Miller John A
Park S intersects
Farmer begins
314 Stockdale Carl
316 Cooley Henry H
318 Earl Douglas
322 Vacant

PEARL — From Huron west, 1 north of Michigan av
108 Hung Lee Indy
110 G A R Hall
W R C Hall
Marks Lewis
111-13 Auto Parts Co Inc
real Chadwick & Biddle auto reprs
114 Congdon A R & Sons hldw
rear Vacant
115 Hankinson O A & Co plmbrs
Harper Method Beauty Shoppe
117 Hopkins & Augustus radios
119 Sma Frank F tailor
120 Freeman Earl L real est and ins
Haynes Herbert E real est
Newcomer Roger H adv
123 Jackson Frank O coal
near Huron Hotel The
Behringer Leonard G
A. A. Ypsi Branch Auto Club
Auto Club of Mich A A A Ypsi Branch
Detroit Auto-Inter Insurance Exchange
Kliwanis Club
Rotary Club
Ye Coffee Shoppe
Ypsilanti Hotel Co
Washington intersects
204 Ypsilanti Finance Co
209 Michlean Bell Telephone Co
212 Wiedman E G Auto Co
213 Joe's Snappy Service restr
216 Dodge & King furn rms
Dodge Cora J Mrs
King Mary A
220 Briskorn Beauty Shoppe
Briskorn Geo A
se cor Silkworth D M Oil Co filling sta

Adams intersects
305 Crawford Wm K plmbr
313 Economy Nicholas
314 Haig R Bruce
315 Howitz Henry
Bailey Alvin M
316 Fynn W Gerald
317 Corbett Addie Mrs
Hamilton intersects
410 McCann Margt M Mrs
411 Bidwell Lee G
412 Corbelle Arth A
415 Vacant
416 Haas Awilda Mrs
417 Begole Bob A
418 Northrup Arth H bidg contr
419 Gaudy Harold W
Gaudy Geo M
422 Vacant

Ballard intersects

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503 Glass Denton S
Orr Raymond H
504 Neir Chas E
507 Hurley Maude L Mrs
507 Maples Tea Room The
Ayers Norval
508 Nass Gustave E
509 Johnston David
510 Norton Ada A
511 Spannuth Raymond
513 Fairbanks Pearl
VanEtien John W
Barbour Chas N
516 Vacant
517 Harris Mary L Mrs
Davis Emily Mrs

601 Starkweather Clarence L
602 Quackenbush J Edgar
605 Ashton Lambert J
606 Calback Wm J
608 Montgomery Franc Mrs
Ontaway Henry J
609 Ford Richd C
611 Alpha Sigma Tau Sorority
Brewer Ludie Mrs
612 Buck Mary E Mrs
615 Baldwin Leota
701 Sutton John M
701 Morey Wm H
702 Matthews John E
703 Sweet Ardon J
704 Ross Elmer J
705 Vacant
706 Tefft Wm G
707 Zimmermann John R
708 Sundberg Andrew E
Dow Chas T Jr
709 Fuiver Geo H
710 Wiesnbacher Max
712 Schlesinger Herbert E
715 Vacant
716 Brown Eauth E Mrs
Normal intersects
802 Gross Annie J
803 Bachman Geo C
805 Osgood Chas H
807 Robb David N
810 Vacant

Summit intersects
903 Northon Nettie Mrs
Northon Harold J landscape archt
907 Lappunen Matt
909 Matthews Ralph D
911 Alban Clayton G
912 Squires John C
914 Eppler Gertrude
916 Shuart Edmond S
917 Teare Frank P bidg contr
918 Miller Arth A
920 Tefft Forrest H
929 Schrepper Robt E electn
931 Lamb Chas K
935 Sherzer Wm H
Elm intersects
1001 Randall Louis F
1003 Whitehouse Frank
1005 Cooney J Howard
1006 Fenker Hugo Rev
1007 Buytendorp Fredk

1008 Johnston Leo T
1009 Vacant
1010 Randall Louis F
Haydon Wm C
1011 Leighton Fredk E
Oakwood av intersects
1101 Erickson Jack A
1103 Hewens Clare J
1104 Dusbber Glenn O
1105 Draudt Walter A
1106 Gotts Helena Mrs
1107 Shaver Carlton
1108 Vacant
1109 Congdon Sarah P Mrs
Fagerstrom Simon E
1110 Sturm Walter C
1115 Schaus Donald R
1117 Gates Alfredo B Mrs
1119 Schoolmaster Chas E
1120 Burke Jos E
1121 Simpson Walter H
1122 Gray Lawrence C
1123 Hart Hallie H Mrs
1124 Chipman Edgar S
Wallace blvd intersects
1202 Campbell Owen D
1204 Lackie Norman E
1206 Perrine I Milton
1208 Wilcox Wm F
1210 Kress Otto E
1218 Miller J Lester
Owendale intersects
1302 Pester Kennard P

PEARSON — From 11 N Adams west, 1 north of Michigan av
312 Burrell A J & Son monuments
316 Wright Florence Mrs
318 Pearson Jennie C

PERRIN — From 517 Pearl north, 5 west Huron
107 Alexander Christine D Mrs
110 Morgan Philip
111 Keller Rex C music tchr
112 Smith Jennie M
113 Bray Bert H
116 Murphy Margt
117 Munniss Frank J
119 Schultz Anthony J
123 Bishop Mary Mrs drsmkr
Washtenaw av intersects
203 Smith Chas R pntr
205 Jensen John J
207 Rowe Ernest E
208 Wilson Arba M
209 Miller Fred
211 Jones Arth W
213 Husse Paul
216 Vacant
218 Vacant
Emmet intersects
304 Bate J Victor
305 Vacant
306 Brown Elmer B
308 College Barber Shop
308½ Knasley Wm
310 Vacant
310½ Saffel Geo H
312 Kroger Grocery & Baking Co
312½ Solter Martha E Mrs
Cross intersects
408 Barnes Laura Mrs
412 Miles Otis M

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OAK—Cont'd

- 305 Miller Alonzo H
- 306 Harwood Geo H
- 309 Kerner Peter
- 312 Merrell Walter
- 313 Ohlinger Albert
- 314 Senff Henry M
- 317 Webster Donald W electn
- 318 Gee Gertrude Mrs
- Johnson Mary Mrs
- 323 Kemp Louis E
- 324 McCreight Thos
- 328 Clough Nelson L
- 329 Baldwin Norman L
- 331 Brown Chas E
- 332 Helzerman Edw
- 402 Hirsch Rowland
- 405 Vacant
- 406 King Haskell E pntr
- 409 Scholz Reinholt R
- 410 Block Geo A
- 412 Livernois Agnes Mrs
- 414 VanBuren John A
- 417 Thayer Wm C
- Lechtiner Guy T
- 418 Block Jos



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Prospect intersects

- ne cor Prospect School
- se cor Prospect Park
- 523 Koeller Alf O

Vought begins

- 601 Bird Jos H
- 616 Stewart Olhe
- 620 Britton Jos J
- 621 Griffin C Wesley carpet weaver
- Charles interests
- 702 Kinsey Arth J
- 703 Kinsey Arth J contr
- 707 Frye John A
- 711 Hammond Chas
- 715 Leshe W Scott

OAKLAWN BLVD.—From Belle-

- ville rd north, 1 east of limits
- 127 Waterbury Frank
- 203 English Elwood
- 205 Waterbury Geo N
- 215 Farr Clarence S
- 220 Schofield Orlando C
- 245 Seaton Amos E

OAKWOOD AV.—From Congress

- north, 8 west Huron River
- 1 Denton Oran
- 5 Swihart D Edw
- 7 Allen Herbt W

8 Hulst Emma Mrs

- 9 Romberger Robt O
- Pearl intersects
- 90 Vacant
- 91 O'Brien Danl
- 92 Bergen Wm A
- 93 Breed Carroll M
- 94 Cox Henry
- 95 Jens Hans H
- 96 Hankinson Thos L
- 97 Mills Mary A Mrs
- 98 Ehma Paul H

Grant intersects

- 105 Hopps F Earl
- 106 Pepper H Clay
- 107 Holly Estelle D Mrs
- 108 Miller Frank L
- 109 Slaterhne Wm E
- 110 Hood O Carl
- 115 Palmer Herbt V
- Sherman intersects
- 201 Hand Dwight E
- 203 Spink Emery E
- 205 Spencer Guy A
- 208 Vacant
- 210 Greenstreet Fredk M
- 211 McCormick Frank
- 212 Lyke Lloyd
- 213 Hammond Minnie D Mrs
- 214 Day Kath Mrs
- 215 Leib Floyd I
- 215½ Harold Fred C
- 216 Disbrow Barbara
- 217 Stab Fred E
- 219 Elliott Wm D

Sheridan av intersects

- 229 Wolung Horace J
- 230 Sinclair Everett D
- 232 Freeman Chas A

Cross intersects

- OLIVE**—From Washington west, 6 north Michigan av
- 206 Golden Louis B
- 207 Vacant
- 208 Walters Thurman A
- 211 Faine Horatio
- Adams intersects
- 310 Manning Geo H
- 311 Alban Carl F
- 312 Swanson Carl O
- Hamilton intersects
- 409 Vacant
- 410 Borst Ernest J
- 411 Fashbaugh Leshe
- Weston Ada Mrs
- 414 Spring Geo E

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PHONE 815

YPSILANTI HOUSEHOLDERS DIRECTORY (1928) 265

415 Burkheiser Jennie Mrs

- 416 Arnet Edw
- 417 Ryan Wm T
- 418 Hand Leon

ORCHARD—From 40 Frederick n 1 east of First av (Houses not numbered)

- ORCHARD AV**—From Belleville rd north to Auburndale av, 1 east of Emerick

OTTAWA—From city limits east to Oaklawn Blvd, 1 north of Belleville rd

- OWENDALE**—From Washtenaw av south to Westmoreland av, 1 west of city limits

OXFORD RD—From intersection of Collegewood rd and Roosevelt Blvd north

- 703 Bonninghausen Herman
- 705 Kipatrck Wm J

PARK N—From Michigan av E south 3 east Huron River

- 14 Derry Wilhus O
- Rabbitt intersects
- 103 White Hubert G
- 104 Boatwright Arth J
- 110 Newton Frank T
- 114 Willetts Chas W

North intersects

- 200 Polzin John J fuel
- 201 Vacant
- 203 Reidinger Dora Mrs
- 205 Bridges Geo W
- 209 Calhoun Wm L
- 211 Groth Geo A
- 213 Bombenek Anthony
- 215 Santure Philip
- M C R R intersects
- High intersects
- 301 Fuller Robt G
- 302 Alford John B
- 309 Price Mary Mrs
- 310 Alford Martin M
- 314 Eshinger Albert F
- 315 Ansley Charlotte M Mrs
- Niles Chas H
- 318 Morse Agnes

PARK S—From Michigan av east, 3 east Huron River

- 3 Russell Chas
- Nelson Cordie

Parson

101 Wise Jas B

- 109 Bassett Iba S
- 115 Green Clara E Mrs

PARKWOOD AV—From Emerick east to Glendale Blvd, 2 south of M C R R tracks

- 89 Ypsilanti Auto Parts
- 1014 McDermott Chas
- 1022 Papke Emma Mrs
- 1033 Watkins Thos
- 1040 Cole John
- 1044 Becktell John W
- 1045 Reno Clinton
- 1055 Chine Roy
- 1115 Egbert Ralph
- 1117 Sherwood Howard
- 1122 James Henry W
- 1133 Durham Ervin
- (Houses beyond not numbered)

PARSON—From River S east 1 south Michigan av E

- ss Hartwick-Wescott Lumber Co
- 109 Zimmerman Emma Mrs
- Lincoln S ends

202 Stockweel Arth

- Bassett Raymond
- 208 Cattermole Wm H
- 212 Parsons Lura D Mrs
- Park S intersects
- Farmer commences

314 Peek Wm

- 316 Cooley Henry H
- 318 Leslie Harold
- 321 Vacant
- 322 Ekan John W

PEARL—From Huron west, 1 north Michigan av

- 108 Hung Lee laundry
- 110 G A R Hall
- W R C Hall
- Sherman Memorial Hall
- Lewis Marks

111-113 Lindbert Auto Co Inc

- rear Bradley Trunk Rack Co E & B Mfg Co auto part mfrs

114 Congdon A R & Sons hdw

- rear Jacobs & Anthony sht mtl wks
- 115 Hankinson O A Co plmbrs
- Davis Frances Mrs hairdrsr
- 117 Peoria Life Insurance Co
- VandeWalker H E ins
- School Thrift Corp

HURON VALLEY RIDING ACADEMY

"THE HOME OF FINE HORSES"

Huron Street at Washtenaw Ave.

Ypsilanti

Phone 1480

Table listing real estate listings for Gregory St, including addresses, agent names, phone numbers, and prices.

Table listing real estate listings for Huron River Dr Ints, including agent names, phone numbers, and prices.

Table listing real estate listings for N Grove St, including agent names, phone numbers, and prices.

Table listing real estate listings for S Grove St, including agent names, phone numbers, and prices.

Table listing real estate listings for Hollow Crk Learn, including agent names, phone numbers, and prices.

Table listing real estate listings for Riverside Mnr Apt, including agent names, phone numbers, and prices.

Table listing real estate listings for Tyler Rd Ints, including agent names, phone numbers, and prices.

Table listing real estate listings for Emerald St Ints, including agent names, phone numbers, and prices.

Table listing real estate listings for Cliff Dr Ints, including agent names, phone numbers, and prices.

Table listing real estate listings for various other properties, including agent names, phone numbers, and prices.

YPSILANTI

Table listing individuals and businesses in Ypsilanti, including names like Edward T Zellars, Dennis J Delprato, Eugene Boldon, and addresses.

Table listing individuals and businesses in Ypsilanti, including names like Ora Lee Hayes, Brian Adkins, C A Bridge, and addresses.

Table listing individuals and businesses in Ypsilanti, including names like Doug Desautels, Joe Jakubowski, Richard Rapoza, and addresses.

Table listing individuals and businesses in Ypsilanti, including names like Salundia Yarbough, 580 582, and addresses.

115 RESIDENCE 1 BUSINESS

GROVE N New Street-1964 Table listing businesses like Marab Plating Corp, Margaret Waterbury, J D Bennett, etc.

Table listing individuals and businesses in Ypsilanti, including names like Cheryl Allen, L Beckwith, Michael James, and addresses.

HAMILTON S Table listing businesses like Amer Battery Exch, Powertron Automotive, and Vickers Auto Sales.

HARRIET New Street-1960 Table listing businesses like Messias Temple Chh, Canonns Hair Dsgn, and others.

GROVE S Table listing businesses like 1-1031 CT4108, 1032-1098 CT4108, etc.

GROVE S Table listing businesses and individuals with addresses like Allen Christ, R Schrock, S Silis, etc.

HAMILTON N Table listing businesses like Girl Scouts Huron, Huron Vly Grl Sct, etc.

HAMILTON N Table listing businesses and individuals with addresses like James John Barski, James John Barski, etc.

HART PL Table listing businesses like 500-599 CT4106, 506, 507, etc.

HART PL Table listing businesses and individuals with addresses like Jessie E Woods, E W Ackles, etc.

HAWKINS Table listing businesses like 100-598 CT4106, 101-599 CT4107, etc.

HAWKINS Table listing businesses and individuals with addresses like Guy R Kersey, C Jordan, etc.

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Table with multiple columns: Address (e.g., YPSILANTI, 403 DOUGLAS SCHOOLER), Phone Number, Name (e.g., DOUGLAS SCHOOLER), Business/Residence status, and other details. Includes sections like FOREST AVE W, GARLAND, GATEWOOD CIR, GAULT VLG SHPG CTR, GRANT, GARSLAND, GROVE N, and GROVE S.

YPSILANTI

PACE 294

BRESSER'S CROSS INDEX DIRECTORY

1972-1973 ANN ARBOR

YPSILANTI

Table listing names and addresses in the Ypsilanti area, including HARRY H STEVENS, CLYDE H TAYLOR, ALFRED C WORTLEY, etc.

Table listing names and addresses in the Ypsilanti area, including LARRY W TURNER, LOUIS KUTZURA, KATHLEEN W DODICK, etc.

Table listing names and addresses in the Ypsilanti area, including TERRY ANDERSON, MAX SEEGER, MARGARET WALKER, etc.

Table listing names and addresses in the Ypsilanti area, including ROYAL E CARTER, LEVI BABB, SECOND BAPT CHURCH, etc.

GROVE N

Table listing names and addresses in the GROVE N area, including STEVE SMEREK, MARSH PLATING CORP, GEORGE T ALLWARD, etc.

HAMILTON N

Table listing names and addresses in the HAMILTON N area, including ELAINE T MCCARTHY, VIVIAN WEDGE, C R ALBERTSON, etc.

Table listing names and addresses in the Ypsilanti area, including ADOLPH WELCH, ROBERT DAVIS, STANLEY O ROSE, etc.

HARRIET

Table listing names and addresses in the HARRIET area, including 100-898 T, 101-899 T, BUDEJOES PARTY STR, etc.

GROVE S

Table listing names and addresses in the GROVE S area, including BEN MOYER, MRS C CHADWICK, EMMA G RHINEHART, etc.

Table listing names and addresses in the HAMILTON S area, including MARY ALICE SIETZ, IVAN CHAPMAN, LEROY J LAYPOOL, etc.

Table listing names and addresses in the HAMILTON S area, including GLEN DEMETRIOU, 150 RESIDENCE, WILHELMINA JORDANI, etc.

HART PL

Table listing names and addresses in the HART PL area, including LUCILLE EVANS, ROBERT BURNETT, LESLIE BOOKER, etc.

226 YPSILANTI

Table of names and addresses for Ypsilanti, Michigan, starting with 'G' and ending with 'EDWARD NEHLSER JR'.

GREGORY 48197

Table of names and addresses for Ypsilanti, Michigan, starting with 'GREGORY' and ending with '96 RESIDENCE'.

GROVE N 48197

Table of names and addresses for Grove North, Michigan, starting with '10 KENNETH MONHOLLEN'.

BRESSER'S CROSS-INDEX DIRECTORY

Table of names and addresses for Ypsilanti, Michigan, starting with '107*BILL&BOB BUFFING'.

GROVE S 48197

Table of names and addresses for Grove South, Michigan, starting with '5 LAWRENCE R WARNER'.

HAMILTON N 48197

Table of names and addresses for Hamilton North, Michigan, starting with '5*DR D W MARTIN'.

BRESSER'S CROSS-INDEX DIRECTORY

Table of names and addresses for Ypsilanti, Michigan, starting with '108 MARIÉ FRYE'.

HAMILTON S 48197

Table of names and addresses for Hamilton South, Michigan, starting with '7*ALMAS BEAUTY SALON'.

YPSILANTI

Table of names and addresses for Ypsilanti, Michigan, starting with '113 ANNIE L KUFFIN'.

HARRIET 48197

Table of names and addresses for Harriet, Michigan, starting with '212 SAMUEL DAVIS'.

HART PL 48197

Table of names and addresses for Hart Place, Michigan, starting with '507 JESSIE E WOODS'.



281 S Harris Rd

GREENLAWN AV—Contd
641 Hazlett Johnie @
HURON Pntg & Decorating
HURON-4055
HURON-4055
660 Hazlett Sammie
HURON-8969

Expressway intersects
Owendale av intersects
Mansfield av intersects
City limits

23
GREENSIDE—From 31 Club
View dr west, north then
east

S Club View dr begins
55 Deyo Clare F @
HURON-3573
65 Cleeton Kenneth @
HURON-4068
76 No return
77 Norris Ronald S @
HURON-4105
88 Sullivan Thos F 482-8920
100 Postiff Clayton W @
HURON-1289

120 Reaume Frank S @
HURON-3692
130 Seymore Walter @
HURON-9900
140 Williams Harold J @
HURON-2599
150 Lamb Chas K @ HURON-8473
164 Merritt Howard T @
HURON-4696
174 Thomas Laurence M @
HURON-3370
210 Richardson Maynard C @
HURON-1817

Club View dr intersects

4
GROVE N—From 400 E
Michigan av north,
1 west of Prospect
6 No return
10 Harrington Keith F @
HURON-7475
14 A&P Food Store (parking
lot)

Babbitt ends
103 Vacant
104 No return
105 Under Constn
106 Allward Geo T @
HURON-6884
NYCRR crosses
Locust begins

A. J. BOATWRIGHT
Ypsilanti
24 S Huron
Tel Hunter
2-7756

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665-8867

GREEN OIL CO.

Tel HUinter 3-3580

206 Lidke Ray Oil Co fuel and
range HURON-0220
208 Day Irving
212 Fitch Norman @
214 Barrett John P @
HURON-2698
216 Sanderson Harold B
HURON-4547
220 No return
224 Reed Ettie M Mrs @
227 Boy's Club of Ypsi
HURON-6550
228 Peters Fredk J jr @
HURON-8518
230 Turnbull Lyleth E @
HURON-3802

High intersects

301 Mantzer Sylvia A
482-5713
302 Bedford Wm H @
HURON-8199
306 Blackmer Robt W
HURON-6967
Camp T Arth @ HURON-3408
309 Dieterle Fred @
HURON-4722
310 Mida Ronald R HURON-1285
315 Stout Hazel Mrs @
HURON-3031
316 Halus Josephine Mrs @
HURON-8367

E Cross intersects

2
GROVE S—From 400 E
Michigan av south
5 Warner Lawrence R @
HURON-0733
7 Ritzrau Walter C @
HURON-4358
11 Kennedy Cyril E @
HURON-0537
15 Moyer Benj I HURON-4813
19 Chadwick Carrie M Mrs @
HURON-0247
Parsons ends
20 Haye G Henry @
Dolce Don
21 Shaw Evelyn Mrs
Lamkin Ethel Mrs
22 Wedemeyer Electronic Sup
Co HURON-2808
24 Wellbrook Rosa L Mrs @
HURON-2734
25 Dunn Ruth H Mrs
HURON-2733
Frye Effie M Mrs
HURON-7946
Fleming Vada L
26 Mullins A C HURON-0129

GROVE S—Contd
26—Contd

Green Lee C
Gable Olive Mrs @
HURON-5258
27 Sayre Herbert J @
HURON-0486
30 Briggs Ray N @
31 Aaron Eug @ HURON-3140
33 Springsted Webster W @
HURON-5353

South ends

101 Austin Burley G
@ HURON-6164
102 Allen Billy J HURON-0523
105 Schaffer Rose L @
HURON-8837
106 No return
109 Mullspaugh Fred M @
HURON-2374
Betty's Beauty Shop
HURON-2374
110 Burbank Olive I Mrs @
HURON-4791
113 Steeby Rach E HURON-9734
114 Ferguson Geo N @
117 Thumm's Sand & Gravel
HURON-8422
Roehm Cora E HURON-8422
118 Cooley Ellen L Mrs @
HURON-4652
119 Keller Jack A @
HURON-3401
122 James Chas E @ HURON-7248
123 Hunt Georgia H Mrs @
HURON-1953
125 Wilder John T @
HURON-7680
126 Duguid John G @ pnter
HURON-3973
Martin Wm D HURON-0076
130 Wilber Jack Htg & Air
Conditioning HURON-4340
135 McDonnells Robt L
HURON-2991
McCready Donald jr
HURON-1350
137 Curtiss Bert @ HURON-7939
141 Cole Cecil @
145 Williams Claude D @
HURON-1757
Callicotte John N
482-7415
149 Bowers John H @
HURON-4458
155 Bischoff Wm F jr @
HURON-2264
157 Wilson John R @
HURON-1759
159 Fields Henry HURON-5233
Fox Geo P
165 Apartments
1 Kutzura Louis
2 Crilly Edw H HURON-8329
3 Paulhorp Morgan W
4 Rutledge Jimmie
169 Remsberg Calvin A @
HURON-0752

214 Roe Ruby B Mrs @
HURON-0982
Bond Jas
Stacy Kiser
218 Henry Jas E HURON-8757
219 Clark's Outlet genl mdse
HURON-4752
224 Hoskins Roger P
Factory intersects
302 Williams Benj @
HURON-0842
Essendrup Marlin L
HURON-4255
310 Foerster Anna L @
HURON-7574
311 Coker Standard Serv
gas sta HURON-9053
316 Huron Valley Van Lines
HURON-4122
317 Waite Jas G @ HURON-2236
319 Duperon Jos P
Stewart ends
410 Vacant
413 Mike's Clark Super 100
gas sta 482-9122
414 L&R Furn Repr & Refin-
shing HURON-2614
416 Gorfein David 482-3936
Walker Wm
426 Ford Warehouse Stge
Belleville-Tyler rd begins
428 Al's Grove St Texaco
Sta 483-9014

14-A

GROVE ROAD—From 817
Emerick south then south-
east
745 Hickory Hill Gulf gas sta
HURON-0711
775 National Bank of Ypsilanti
The (br) HURON-5800
821 Keirl Wm @ HURON-3854
825 Everard Robt L @
HURON-1850
829 Orr Robt W @ HURON-7141
833 Reynearson Elton J jr @
HURON-1063
841 Gilbert Mary H Mrs @
HURON-2747
845 Haas Geo M @ HURON-4030
849 Stoltz Harry E @
HURON-0038
853 Gilbert John F @
HURON-1182
875 Orr Wm T @ HURON-4895
879 Smart Harvey M
HURON-3626
880 Sewage Disposal Plant
HURON-3998
883 Chulson Ted @
HURON-9481
886 Full Gospel Church
887 Gonzales Gene
891 Hamm Jay E @ HURON-6881
895 Nadeau Thos E @
HURON-4917
930 Baptist Albert S @
HURON-4107



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SALES
HUNTER
3-0322



MAGEE MUSIC

PHONOGRAPH RECORDS - MAGNAVOX HI-FI
301 W. MICHIGAN AVE. TEL. HUNTER 2-4570

- 14 From
GLENWOOD AVENUE - From Dwight
north of 1198 Hawthorne av south
to Tyler rd
147 Jokubaitis John P
HU23154
- Hawthorne av intersects
171 Castleberry Gene
Wilson Carol J
rear Russ Vera C Mrs
181 Geesey Clifford J
HU21482
- Parkwood av intersects
287 Lavernolis Marie M Mrs
HU23926
- Maplewood av ends
309 Funsch John T
Davis intersects
427 McFee Jean M Mrs
HU23280
- Keorse rd intersects
534 Robinson Herbert L
HU24547
- 535 Tauskus Adolph E
HU23654
- 540 Smith Max R HU27165
543 Walbrink Don J HU34536
550 Lamb Stanley HU24177
551 O'Neill Jack W HU34650
559 Yates Edw G HU28722
560 Hansen Wayne L HU30780
567 Thorp Lenard L HU34533
568 Hakkari Clare W HU25772
575 Kocinski John L HU34622
- 576 Sultner Frank HU20275
583 Elshoff Floyd F HU31766
584 Hulth Harry E HU28230
591 Vacant HU24766
592 Plumley Carl E HU24766
599 Becker Chas J HU30673
600 Huinta Enro J HU24176
609 Gasparovic Cyril L HU28801
- 610 Oliver Robt K Rev HU20707
615 Killebrew J D HU28791
616 Brooks Billie J HU22088
623 McCabe Hazel V Mrs HU28404
624 Lomaka Eug HU30792
631 Alexander Denny HU23335
632 Helmers Donald E HU32843
639 Williams Albert J HU31503
640 Pavlovich Jos HU28740
647 Kennedy Wm J HU31330
650 Ing Wm HU34353
655 Falandysz Richd J HU20742
660 Taylor Nicholas HU22057
670 Vacant
- Tyler rd intersects
13
GOODMAN - From 413 Harriet
south to Monroe av
600 McCarter Silas HU22963
602 Davus Jas H HU21881
602 Butler Wm HU32656
603 Cole Charley HU32656
rear Johnson Gertrude Mrs
605 Bailey Geo HU20479
606 Anderson Leslie HU30571
607 Henderson Susie Mrs HU22097
612 Johnson Robt L HU22097
bsmt Roberson Fredonia Mrs

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- Plants
Corsages
Cut Flowers
Floral Designs
- GRANT-Contd
1115 Dudley Richd J HU24039
1116 Millman Doris E HU33236
1117 Bird Roverta E Mrs HU32541
1118 Swihart Wm D HU27708
1119 Dawson John F HU25078
1120 Elick Ralph D HU33213
1121 Baer Bernad L HU34578
1122 Kerr Richd C HU28603
1123 Edwards Everett C HU25961
1124 Stem Mathew F HU33207
- N Wallace Blvd intersects
1202 Sherman Harold M HU33896
1203 Gaskell Walter L HU29883
1204 Bullis Dale W HU33893
1206 Henderson David R HU23799
1207 Trotter Howard A HU20763
- 1208 Sweeney Patk
1309 Hutchinson Rodney E HU22041
1210 Hilbert Wm R HU23763
1212 Buccos Richd P HU34096
1213 Batchelor Emul G HU26193
1214 Hubbell Paul E HU27426
Hubbell Anne E Mrs mms. tchr
1215 Brooks Thos H HU20499
1216 Falk Clara J Mrs HU33703
1217 Miller Harold H Jr HU33905
1218 Renton Jas L HU30822

- GREENSIDE** - From 31 Club View
dr west, north then east to 220
Club View dr
23
S Club View dr begins
55 Deyo Clare F HU23573
56 Straub Gerald J HU27161
76 Vacant
77 Norris Ronald S HU24105
88 Freatman Ellis B Jr HU21230
100 Postiff Clayton W HU31289
120 Reaume Frank S HU23692
130 Patrick Glenn R HU30503
140 Williams Harold J HU28259
150 Lamb Chas K HU28473
164 Merritt Howard T HU34696
174 Thomas Laurence M HU33370
210 Richardson Maynard C HU21817
- Club View dr intersects
GROVE N - From 400 E Michigan
av north to E Cross
6 Edenburr Leroy HU29781
10 Sharrcock Cecil P HU26884
14 A&P Food Store (parking lot)
103 Reynolds Chemical Prod - Div
Stubnitz-Green Spring Corp
Staubitz-Green Spring Corp
104 Wright F D HU29781
106 Allward May T Mrs HU26884
- 108 Wood Eng NYCR crosses
112 Towler Ray HU28104
114 Barrett John P HU22698
206 Ladge Roy Oil Co Locust begins
216 Sanderson Robt L HU24362
- GREENLAWN AVENUE** - From
north of Parkwood av south to
Ypsilanti Expressway, I east of S
Harris rd
310 Smith Edw E HU26579
320 Cobb T T HU26386
330 Johnson Sam HU25846
331 Hopkins Fred HU22355
340 Forbes Herbert H HU22355
347 Vacant
350 Lambert Jas E HU20967
356 Whittaker John HU23782
380 Vacant
381 Johnson Eber V HU25901
- Parkwood av intersects
406 Williams Gerald J HU26261
407 Vacant
411 Shriren Revallette Mrs
412 Vacant
417 Vacant
418 Vacant
421 Vacant
424 Vacant
427 Vacant
430 Vacant
436 Vacant
441 Vacant
448 Bernard Roy G HU21809
453 Vacant
455 Vacant
467 Vacant
- Ecorse rd intersects
541 Mallory Geo W HU31186
551 Kunkel Kenneth J HU27457
560 Repholz Jacob K HU29579
561 Roper Hermon HU24156
570 McCormick Jack HU29577
571 Burse Margt A Mrs HU27052

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GROVE N—Contd
220 Stephens Harvey @ HU24317
224 Reed Ethel M Mrs
227 Gilbert Community House
227 Gilbert Community House
City Dept of Parks & Recreation HU33054

City Dept of Forestry HU32173
Acker Robert T @ HU24999
228 Peters Fredk J Jr @ HU28518
230 Turnbull Lyneid E @ HU33802

High intersects
301 Clow Allen N Jr @ HU25562
302 Bedford Wm H @ HU28199
305 Blackmer Robt W @ HU26967
Camp T Arth @ HU24722
309 Dielerle Fred @ HU24722
310 Vacant
315 Stout Walter W @
316 Hals Tom @ shoe repr
@ HU32046

Cross intersects
2

GROVE S — From 400 E Michigan av south beyond Belleville-Tyler rd
5 Warner Lawrence R @ HU20733
7 Ritzrau Walter C @ HU34358
11 Kennedy Cyril @ HU20537
15 Moyer Ben I @ HU34813
19 Chadwick Carrie M Mrs @ HU30247

Parsons ends
20 Vacant
21 Tennis Lester M @ HU29495
Hackworth Ruby Mrs @ HU30491
22 Wedemeyer Electronic Sup Co @ HU32808
24 Weilbrook Rosa L Mrs @ HU32734
25 Dunn Ruth H Mrs @ HU32733
Fleming Carl U
rear Jordan Lewis C @ HU29868
26 Gable Olive Mrs @ HU25258
Mauk Robt D
27 Sayde Herbert J @ HU30486
30 Bridges Ray N @ HU26163
31 Aaron Eug @ HU23140
33 Sprungsted Webster W @ HU25553

South ends
101 Austin Burley G @ HU26164
102 Caldwell Ora L Mrs @ HU29881
Ridmhart Emma G
@ HU28140
105 Shafer Sarah Mrs @ HU28837
106 White Anthony C @ HU28838
109 Millspaugh Fred M @ HU29274
110 Burbank B R Agcy real est @ HU24791
Burbank Benn R @ HU24791
113 Lux Carrie P Mrs @ HU28836
114 Ferguson Geo N @ HU28422
117 Thumm's Sand & Gravel @ HU28422
Roehm Cora E @ HU28422
118 Cooley Robt H @ HU34652
119 Keller Jack A @

122 Lyon Derrro Mis @ HU27248
123 Rouse Henry A @ HU27248
125 Thumm Frank A @ HU29873
126 Duguid John G @ HU29873
130 Wilber Jack Htg & Air Con- ditomng @ HU34340
135 Baker Ralph J @ HU29545
Bosscher Gertrude @ HU22763
137 Curtiss Bert C @ HU27939
141 Greenfield Margt A Mrs @ HU21524
145 Williams Claude D @ HU31757
149 Bowers John H @ HU27872
155 Cass Irving R @ HU31758
157 Wilson John R @ HU31758
159 Harris Harry W @ HU29682
165 Schwall Fred J @ HU29367
Koch Richd @ HU24243
Kutzura Louis @ HU30709
214 Roe Ruby B Mrs @ HU20882
218 Jones Landon R @ HU29278
219 Reynolds Chem Products Co (plant)

224 Guy Jas E
Anderson Jas M
Factory intersects
302 Williams Benj @ HU30842
310 Foerster Anna @ HU27574
316 Huron Valley Van Lines @ HU34122
317 Waite Jas G @ HU32236
319 Jahne Saml E
320 Vacant

Stewart ends
411 Vacant
412 Vacant
413 Duperon Jos P @ HU21685
414 Willis Packing Co Inc @ HU21685
426 Mathee Lee G Jr @ HU22957
Belleville-Tyler rd begins
428 Lamkin Phyllis A @ HU20392
Heininger Richd @ HU28958
Bums John P @ HU20660

GROVE ROAD—From 817 Emerck south then southeast to Hearthiside dr
845 Haas Geo M @ HU24030
849 Stoliz Harry E @ HU30038
861 Gault Chas A radio repr @ HU32777
875 Ori Wm T @ HU34895
879 Mariz Ford O @ HU26460
880 Sewage Disposal Plant @ HU23998
886 Vacant
883 Chilson Ted D @ HU29481
930 Baptist Albert S @ HU24107
952 Blikken Wendell A @ HU22484
1000 McHenry Jas G @ HU25965
rear King Jas @ HU30851

1031 Burton Carl @ HU33101
1039 Sweeney Chas E @ HU33102
1047 Snelling John D @ HU33170
1055 Pratt Norman P @ HU25255
1063 Hahn Henry W @ HU25255
1071 Rickelmann Richd J @ HU30620
1079 Hoskins Hershel @ HU33121
1087 Hoobler Wm B @ HU27120
1095 Bowers Peters @ HU27822
1103 Madonik Paul @ HU33486

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GROVE ROAD—Contd

1111 Tecoma Virgil @ HU34310
1119 Waterstrupe Robt E @ HU24704
1127 Zimmerman Ruth A @ HU31016
1135 Krause Walter R @ HU24709
1143 Duszynski Michl F @ HU24705
1157 Burt Earl F @ HU22693
1163 Juliano Ralph @ HU27140
1175 Tennyson John W Rev @ HU21759
1195 Grondin Richd K @ HU22726
1211 Abercrombie Thos N @ HU21684
1221 Anderson Robt J @ HU21505
1231 Gustafson Roy J @ HU29552
1241 Dupuis Ray R @ HU21767
1251 Whitmer Chas E @ HU25833
1261 Yoh Bernard D @ HU22412
1271 Stiaford Henry F @ HU34734
1281 Tattersal Bert H @ HU30978
1291 Scavage Paul R @ HU24747
1301 Scudder Wm @ HU31393
1311 Smallwood Robt J Rev @ HU29563

1321 Barr John M @ HU30839
1331 Yates Loren P @ HU32369
1341 Chauvet Jack S @ HU20719
1351 Barton Verma D @ HU30484
1361 Cazier Richd L @ HU34736
1410 Glass John S @ HU23517
1411 Emerson Paul E @ HU28670
1419 Russell Guy P @ HU34552
1427 Campain Chas T @ HU34715
1435 Rogers Wm T @ HU21873
1443 McElwain Gerald J @ HU31578
1451 Fencik Donald @ HU31578
1459 Phelps Ernest T @ HU31578

1467 Eulmore Dale W @ HU32342
1475 Jackson Richd D @ HU32509
1483 Shaw Jas H @ HU32509
1491 Gustafson Robt W @ HU32873
1499 Huntsinger Donald E @ HU33319
1507 Beamer Robt L @ HU29548
1515 Scott Thos F @ HU34778
1523 Vacant
1531 DeVries Jas @ HU34748
1539 Hogston Jas @ HU33982
1547 Real Chester J @ HU20215
1555 Benley Clyde R @ HU33369
1563 Clark Stevenell O @ HU34546
1571 Dawson Edw @ HU27663
1579 Setz Arlo D @ HU33697
1587 Smith Jas J @ HU23780

Dorothy begins
1603 Keeler Earl J @ HU28889
1615 Lagon Norton D @ HU25455
1627 Smith Wray @ HU25455
1639 Vacant
1651 Ward Ernest @ HU23724
1663 McFry G W @ HU23795
1675 Williams Donald A @ HU32640

HAMILTON N — From 400 W Michigan av north to W Forest av
9 Brooks Apartments
1 Beadle Harold D @ HU33126
2 Evans Velma E
3 Vacant
4 Malken Verge
Street continued
11 Alwell-Hicks Inc (br) engs @ HU31710
12 Am Red Cross @ HU24880
City Mayor @ HU25221
Hutchinson Rodney E Iwyr @ HU25221
14 Falk E Carl phys @ HU22551
15 Apartments
1 Ables Lewis M @ HU27901
2 Rocco Darlene
3 Beuerle Edwin R @ HU27809
4 Withers Maryanne @ HU34089
5 Reithinger Nelly
Street continued
16 Bailey Robt W @ HU21720



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130 S. Grove

Who's Who-- and Where?

Such questions can only be answered by the Directory and that is where people look when they want to buy.

Are you properly displayed there to get the business?

346

GLENWOOD AV—Cont'd
 583ΔBush Floyd @
 591 Lawton Dewey @
 592 Poe Shelby L @
 599ΔMullard Oren W Jr @
 600ΔCurrier Geo A @
 609ΔGasparovic Cyril L @
 610ΔRankens Harvey B @
 615ΔKillbrew J D @
 616ΔAdams Ronald J @
 623ΔMcCabe Hazel V @
 624ΔAmaka Eng @
 631ΔKlatt Frank P @
 632 Helms Donald E @
 639ΔWilliams Albert J @
 640ΔDroege Wm C @
 647ΔKennedy W J @
 650ΔIng Wm
 655 Vacant
 660 Sawyer Leon W @
Belleville-Tyler rd intersects
 13
GOODMAN — From 413 Harriet south to Monroe av
 600 McCarter Silas
 601 Leach Joe
 602 Butler Wm @
 603 Lanier Dennis
 Taylor Andrew
 605ΔBailey Geo @
 606ΔAnderson Leslie @
 ΔWright Erwin Jr
 607 Henderson Susie Mrs @
 612ΔJohnson Robt L
 614ΔKnox Asa @
 616 Knox Elwood @
 617 Atkins Dewitt
Monroe av intersects
 620 Lee Orville @

919ΔHelm Myrtle Mrs @
 ΔLowden Alice M
 920ΔGreiner Francis M @
 921 Langer John A
Elm intersects
 1000ΔMcLane Mildred Mrs @
 1002ΔSkinner Lawrence C
 1004ΔBoik J Nelson @
 1005ΔHart Jas M @
 ΔWatermann Beat
 1006ΔMarchesotti John J @
 1007ΔMann Robt J
 1008ΔCurtis Martha E @
 1009 Tolbert Danl @
 19
Oakwood av intersects
 1103ΔJameson Lillian H Mrs @
 1104ΔBenson Martin J @
 1105ΔMartindale Erma J @
 1106ΔRenton Cath C Mrs @
 1107ΔReid Roy E @
 1108ΔDsbrow Sidney A @
 1109ΔPearson Ross N @
 1110ΔChapelle Kathleen W Mrs @
 1111ΔZimba J Edw @
 1112ΔSherman Danl E @
 1112½ Vacant
 1113ΔHixson Fred D
 1114ΔBrown John W @
 Wright Richd W
 1115ΔDudley Richd J @
 1116ΔMillman Sarah M Mrs @
 1117ΔMcCulloch Robt V @
 1118ΔSwihart Wm D @
 1119ΔDawson John F @
 1120 No return
 1121ΔTimm Elmer W @
 1122ΔRay Hádley N @
 1123ΔEdwards Everett C @ real est
 1124ΔStein Matt F @
N Wallace blvd intersects
 1202ΔSherman Harold M
 1203ΔGaskell Walter L @
 1204ΔBullis Dale W @
 1206 Purdue Saml M @
 1207ΔWhitcomb Donald B @
 1208ΔCathers Fred P @
 1209ΔDieterle Arth F
 1210ΔHilbert Wm R
 1212ΔBuccos Richd P @
 1213ΔBatchelor Emil @
 1214ΔHubbell Paul E @
 1215ΔBrooks Thos H @
 1216ΔFalk Clara J Mrs @
 1217ΔSignor Wales W @
 1218ΔRenton Elsie C Mrs @
 1219ΔAnderson Geo E @
 1220ΔPear Max @
 1221ΔLeighton Kenneth L @
 1222ΔSanborn Benj F @
Owendale av intersects
 1302ΔWalker Noel J @ bldg contr
 1303ΔBonner Colln F @
 1305ΔWarner Jas F @
 1306ΔNehlsen Edw A Jr @
Mansfield av intersects
 City limits
 917ΔHunter Irving B @

GREENSIDE — From Packard rd south to Verma av
 210ΔRichardson Maynard C @
 4
GROVE N—From 400 E Michigan av north to E Cross
 6ΔMcCashin Mollie Mrs
 10 Sharrack Cecil P @
 14ΔChadwick Ruth E Mrs @
Babbitt ends
 103ΔYpsi Mach & Tool Co
 104ΔCrogban Steph G @
 106ΔAllward Geo H @
 108ΔMcDavid Herbert B @
 Teboe Carol E
 112ΔTowler Ray @
 114ΔBarrett John P @
Locust begins
 206ΔDieterle Fred & Co Inc genl contrs
 ΔLadke Ray Oil Co
 216ΔSanderson Robt L @
 220 Vacant
 224ΔReed Ethne M Mrs @
 227ΔGilbert Community House
 228ΔPeters Fred J Jr @
 230ΔTurnbull Lyleth E @
High intersects
 301ΔDieterle Fred @
 302ΔBedford Wm H @
 306ΔAkin Wm L
 Stewart Jas H
 310ΔMalone Lee F
 315ΔStout Walter W @ shoe repr
 316ΔHahs Tom @ shoe repr
E Cross intersects
 2
GROVE S—From 400 E Michigan av south beyond Belleville-Tyler rd
 5ΔWarner Lawrence R @
 7ΔRutzrau Walter C @
 11ΔKennedy Marie E Mrs @
 15ΔMoyer Ben I
Parsons ends
 20 Have Henry G @
 21ΔBeauregard Harold J
 22ΔMarket Basket The gro
 ΔPreslar Velmar L
 25ΔDunn Ruth H Mrs
 Fleming Carl
 26 Moore John E
 ΔGable Olive Mrs @
 27ΔErlewine Custer E @
 30ΔArthur Claude F @
 31ΔAaron Aug
 33ΔSprungsted Webster W @
South ends
 101ΔAustin Burley G @
 102ΔGrann Burley M Mrs
 ΔMiller Cath
 105 Shaffer John @
 106ΔWhite Anthony C @
 109ΔMillspaugh Fred M @
 110ΔBurbank Benj R real est & ins

113ΔLux Steph B @
 114ΔFerguson Geo
 ΔIndependent Trucking Serv
 117ΔThumm's Sand & Gravel
 ΔThumm Lamar F @
 ΔRoehm Cora
 118ΔCooley Robt H @
 119ΔSchutt Lloyd E @
 122ΔBoyd Marion @
 123ΔRouse Henry A
 125 Thumm Frank A @
 126ΔDugrud John G @
 135ΔBrenton Arth W
 137ΔCurtiss Bert C @
 141ΔGreenfield Margt C Mrs
 Cuthbert J Estella Mrs @
 145ΔWilliams Claude
 149ΔAaron Thos @
 155ΔIrving R Cass @
 157 Wilson John R
 159ΔHarris Harry W @
 169ΔReusberg Calvin A @
 214ΔRoe Carl A @
 Morgan Bennie
 Moyles Morton
 218 Vacant
 219ΔUniversity Lithoprinters Inc
 224ΔWoolher Aith J @
Factory intersects
 302ΔTyler Lewis H @
 ΔTyler John F
 310ΔFoerster Albert C @
 316ΔHuron Valley Van Lines
 317ΔWaite Jas G @
 319ΔBlackwell Walter V Jr @
 320 Vacant
Stewart ends
 410ΔCobb Geo A grinding
 411ΔEividge Hg & Sheet Mtl
 413 Duperson Jos
 414ΔHuron River Cold Storage
 Locker Plant
 426ΔLamkin Geo A @
Belleville-Tyler rd begins
 428ΔLamkin Jessie Mrs @
 41

GROVE ROAD — From Emerick south a continuation of Ford-Dam rd
 861ΔGault Chas A radio repr
 930ΔJenkins John M @
 952ΔBhikken Wendell A @
 1000 Vacant
 1175ΔMontonye John P @
 1211ΔAbercrombie Thos N @
 1221ΔTaylor Wm R @
 1231ΔGustafson Ray J @
 1241ΔDupuis Raymond
 1251ΔWhitmer Chas E @
 1261 Vacant
 1271 Vacant
 1281ΔHoldridge Thos @
 1291ΔSavageneau Paul
 1301ΔScudder Wm @
 1311ΔDeschamp Chas F @
 1321ΔHicks Robt P @

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Prompt and Courteous Drive-in Service

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20 S. Washington Ypsilanti

GARLAND AV.—Cont'd
324Dinehart Harold F
325AMinner Robt H
326ASchuler Theo C
327ASchuler Geo O
328ADarock Geo O
Ordway Gary
328AAsby Myron
329AIng John W
330AOK John W

GEORGIA AV.—From 100 Davenport east 1 block
215 Westlin Maynard C

GLENDAL AV (Club View Sub Div) —From junction of Pinehurst av and Hillcrest blvd northeast to Valley dr

14 GLENWOOD AV — From 1/2 block north of 1200 Hawthorne av south to Belleville-Tyler rd (not open between Ecorse rd and Belleville-Tyler rd)

147AZwinakas Walter
171ARuss Vera C
181AHeppner Alice C
227 Vacant
287 Lavernous John M
309 Geesey Clifford J

427AMcFee Jean Mrs
(Not open between Ecorse rd and Belleville-Tyler rd)

GORDON AV.—From Dwight east to N Prospect av, 1 north of E Forest av (No houses)
Hemphill rd intersects Stanley rd intersects N Prospect intersects

21 GRAND BLVD.—From 1400 Wash-tenaw av north to NYCREE Whitler rd intersects

609AHochrein Alpha G Mrs
709AKetchap Wendell M
Ivanhoe av intersects (not open) Kingwood av ends NYCREE dr intersects

GRANT.—From 113 N Summit west to Mansfield av
904Bausano Chas
907 Vacant
909AFarley Paul W
910AMiller John C
912AHawthorne Wm E

913ASkinner Lewis B
914AThayer Ralph F
916AMagdon Wallace H
917AHunnic Irving B
919AHeim Myrtle Mrs
920ALauer Harry R
921ASturtevant Scott Jr
Elm intersects

1000AMcLane Frank W
1002ADavis Wm T
1005AHart Jas M
AVandewalker Lewis
1006 Marchessot John
1007AConnerse Harry R
1008ACurtis Martha E
1009ASkinner Rachd E

19 Oakwood av intersects
1103AHart Parker
1104ABenson Martin J
1107ABeed Roy E
1108ADisbrow Sidney A
1109APearson Ross
1110AChapelle Ernest H
1111AZimba Eaw J
1112 No return
1113AHixson Fred D
1114ABrown John W
Wright Rchrd W

1115ADudley Rchrd J
1116AMullman Sarah Mrs
1117AMcCulloch Robt V
1120AChapman Paul C
1123AEdwards Everett C
1124AStein Matt F

1202ADushaber Gien O
1203AGackell Walter L
1204AChumer Josh Jr
2005 Vacant
1208ACathers Fred P
1210AHubbel Wm R
1214AHubbel Paul R
1215ABatchelor Emil
1216APark Clara J Mrs
1217ASignon Wales W
1219AFickenscher Ralph M
1220AFear Max
1221ALeighton Kenneth L
1222AFortunato Chas P

Owendale av intersects
1302AWalker Noel J
1305AWarnet Jas F
1306ANehlsen Edw A
Mansfield av intersects City limits

5 GROVE N.—From 400 E Michigan av north to E Cross
6AMcCash Justin T
10A Holt Drew S
144A Chadwick Walter F
Babbitt ends

103AYpsi Mach & Tool Co
104ACroghan Stepih G
106AAllward Geo H
MCRE crosses

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GROVE N.—Cont'd
108 Meyer Chas C
112 Towler Edw
ATowler Ray
114 Olsen Nels
Locust begins

216AArend Alf
220 Richards Lloyd L
AMeyers Z B
227 Gilbert Community House
AWright Fred
228APeters Fredk Jr
230ATurnbull Lyleth E
High intersects
301ADieterle Fred
302ABedford Wm H
306ACanzoneri Carmel J
310AHoyt Kenneth G
315AStout Walter W
316AHaalis Tom
E Cross intersects

GROVE S.—From 400 E Michigan av south beyond Belleville-Tyler rd
5AWarner Lawrence R
7 VanRiper Jas
11AKennedy Marie E Mrs
AMoyer Harold B
AMoyer Benj I
Parsons ends

20 Dupron Jos P
20 1/2 Landrums Orville
21 Beck Florian Mrs
ABrown Fredk
Beurgard Harold
22AGable Olive Mrs grt
24AWellbrook Clinton H
24 Thumm Mary
25 Apartments
1 Neely Bud
2AGayman Walter B
3 Bronson Max
Street continued
26Bridle Francis H
27ADobbie Roland P
30AStrahl Roy W
31ABowerman Fannie M Mrs
33ASpringstead Webster W
South ends

101ARoe Dayton A
102 Scheppner Edw C
105ATreat Saml B
106AWhite Anthony C
109AMillsbaugh Fred M
110AGondek Edmond
113ASanderson Harold J
114AFerguson Geo
117AThumm's Sand & Gravel
ATHumm Lemar F
118ACooley Robt
119AYates Mark H
122ARoy Raymond I
123AJohnson Ernest H
125 Thumm Frank A
126ADuguid John G
130AMetco Processing Corp wldr
137ACurtiss Bert C
159AOrgen Elmer R
McKinnon Malcolm
169ABauer Kelton D
214ARoe Carlton A
AClark T C
Exmger Dan
Roe Larry R
218 Carroll Julia
224AWard Marvin
Woolner Arth

Factory intersects
201 Steplie Harry
205AHawkins Cath H

R. L. POLK & CO.

City, County, State and National Directory Publishers Offices in Principal Cities

302AFoerster Louis K
ATyler Lewis H
310AFoerster Albert C
316AYpsi Water & Sewer Dept (ofc)
317AWaite Jas G
319AHardin Jos M
320AMcCartier Vernon
Santure Margt Mrs
Stewart ends
410ANye Raymond potatoe chips
414AYpsi Frozen Food Lockers
426 Lamkin Geo A
428ALamkin Jessie Mrs

HAMILTON N.—From 400 W Michigan av north to W Forest av
ABlack and White Cab Co
AVet's Cab Co
9 Brooks Apartments
Apartments
14Beadie Harold D
2 Vacant
3 Lanck Jos
4AForbes Orville C
Street continued
11ASeime Reuben I
Pearson ends
12AHolly Lynn J
140Bogger Thos W
154Abies Lewis M
164BAncy Ora
19AStevens & Bush Funeral Home
Bush LeRoy N
Pearl intersects

101AButler Jessie Mrs
102AMatteson Jane L
105 Apartments
1 Lewers Benj
2 Gimson Verne
3 Ellis Jas
4 Fox Clarence
5 Fraucante Anthony
Street continued
108AAbbey W Morgan
109 Apartments
1ADell Raymond M
Case L Lucretia
2ARohrer Jas
3 Sandfor Phulp
Street continued
110AClark Harriet B Mrs
112APreifer Harrison S
113 Apartments
1AFuggles Cynthia S
2 O'Gerick Stanley J
3AHaynes Luella
4 Clark Clyde
5 Kolosky Helen
6ABohnow Lucille
Street continued
114 Apartments
1AMiller Eliz C
2 Roscoe Alice J
3 Hart Glen
4 Vacant
Street continued
115AEberlin Harry R
116ABurrell Paul M
119AKnowlton Chas W
120ASpencer Fred C
125ACoates Hazel Mrs
ASlock Wm
Washtenaw av intersects

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FOREST AV W--Cont'd
508 Scharf Gregory H
509 Scharf Gregory C trucking
509 Dickerson Chas D
511 Mine Geo A
511 Mine Geo A
512 Borst Jas L
Davies Ralph E
Shelby Wm
512 Evans Walter J
517 Scharbat Jos A
518 Owen Anna F Mrs
Wachs Otto

Perrin ends
601 Lindstrom Carl R
602 Holmes Mathilda C
607 Knowlton Inos H
610 Owen Anna F Mrs
Owen Eber W
611 Wales Ora K
615 Whitehouse Frank

Brower ends
Cornish John
709 Bentley Marietta D Mrs
714 Roosevelt High School
ns 1 e King Julia Ann Residence
(MSNC)
ns MSNC Science Bldg
MSNC Heating Plant
ss AYWCA
ns Briggs Walter O Field House
rear Rackham Bldg (MSNC)
After 714 ns W Forest av, N
Brower
Goodison Bertha Residence
Hall MSNC
810 Hoyer J Milton Laboratory
MSNC
Munson John Residence MS
NC
Stevens John W shop
935 Athletic Field
Mueller Wm
before 935 Athletic Field
Bird Leo E
Miller Wm W
936 Phelps Jesse
Atwood Harold
938 Wood Esther
940 Studdt Earl K
944 Nettleship O Lester
950 Frank Wm L

34 Foley Willie L Mrs
Wright Jas
35 Severs Albert E
36 Brandon Otho
Grayson Fendly
Shenwell Sidmo
38 Hawkins Henry
39 Anderson Henry
40 Carlock Luther Orchard ends
41 Addie Essie Mrs
43 Francon Webbs
44 Brown Roselle C
46 Johnson Elsie Mrs
Sanders Henry
Willis Percy
47 Johnston Geo A
Stewart Ethel M Mrs
49 Robertson Alphonse
57 Horne Lacy
58 Wilson Frank
61 Durban John
62 Williams Robt
First av intersects
GARLAND AV -- From 200 Mills
northeast and north to E Cross
northeast and Vinewood et begins
304 Keelan Wayne J
305 Moxley Grover L
306 Conrad Laurence E
310 Way Harold A
312 Markgrat A
314 Haig R Bruce
316 Vacant
318 Lamb Donald A
319 Zurek Mary F Mrs
320 Mitchell Louis J
321 Adams Orville L
322 Dennison Harry G
323 Philbin Mlo H
324 Greim Carl
326 Singer Theo H
328 Doustra Albert G
329 Ing John D
330 Ok John W
GLENDALE AV (Club View Sub
Div)--From junction of Pinehurst
av and Hillcrest blvd northeast to
Valley drive
Valley drive intersects (not open)
GLENWOOD AV -- From 1/2 block
north of 1200 Hawthorne av south
to Belleville-Tyler road (not open
between Ecorse road and Belle-
ville-Tyler road)
147 Zwinakas Walter Orchard ends
Hawthorne ends
171 Russ Guy A
181 Hephner Alice C Mrs
181 Hephner Earl C
227 Laubensheimer Earl C
287 Lavernous John S
309 Thayer Harold E
314 Gulick A Edwin

1114 Leslie Scott-W
Wolverton Harold E
1115 Dudley Rachd J
Dudley Hazel Mrs
1116 Millman Sarah Mrs
1117 McCullough Robt V
1120 Chapman Paul C
1123 Ambrose Erwin J
1124 Yeatman Wm H
N Wallace blvd intersects
1203 Gaskell Walter L
1204 Youngs Harold H
1208 Cathers Fred E
Arthur Ernest O
1210 Hilbert Wm R
1215 Batchelor Emil
1216 Falk E Carl
1217 McKercher Alf
1219 Fish Clinton H
1220 Cox Elmer
1221 Jones Clarence D
1222 Fortunato Chas P
Owendate av intersects
1302 Walker Noel J bldg contr
1305 Warner Jas F
1306 Nehlsen Edw A
Mansfield av intersects
City limits
GREENLAWN AV--From Ecorse rd
South, 1 east Harris
638 Stone Oliver
Losey Chas F
640 Barber Lyle
660 Kellogg Buell W
GROVE N--From 400 E Michigan av
north to E Cross
6 Palmer Eug
10 Smith Cath T Mrs
14 Moore Tressa C Mrs
Chadwich Walter F
103 Vacant
104 Croghan Steph G
106 Allward Geo H MCR crosses
108 Meyer Chas C
112 Towler Edw
Towler Ray
114 Oisen Nels
Locust begins
216 Arend Lawrence
220 Monaghan Mary E Mrs
Case Lee
Seals Howard
224 Reed C Wesley
Roke David E
227 Gilbert Community House
Wright Fred E
Jones Margt Mrs
228 Peters Fredk J Jr
230 Turnbull Lyleth E
Hess Flora M drsmkr
301 Dieterle Fred Genl contr
302 Bedford Wm H
306 Smith Elz W Mrs
310 Seniff Henry M
GLENWOOD AV--Cont'd
325 Sample Edgar Davis av intersects
427 Brashears Wardell
Stephens Willie H
Ecorse rd intersects
and Belleville-Tyler road
Belleville-Tyler road intersects
GOCHOUR RD -- From 1965 W
Michigan av S
735 Russell Gertrude L Mrs
800 Seeger Elwyn S
805 Chesher Earl F
GORDON AV--From Dwight east to
est av
(No houses)
Hemphill rd intersects
Stanley rd intersects
N Prospect intersects
GRAND BLVD--From 1400 Wash-
tenaw av north to NYCRR
Whittier rd intersects
609 Hochrein Alpha G Mrs
Roosevelt blvd intersects
709 Koppin Esther B Mrs
714 Monteth Jos A
Ivanhoe av intersects (not open)
Kingwood av ends
Collegewood dr intersects
NYCRR west crossing
GRANT--From 113 N Summit west
to Fansfield av
904 Bausanos Chas
Lee Phillip Mrs
907 Hawthorne Wm E
909 LeCureux Alf
910 Prest Harold D
912 Rule Wm C
913 Skanner Lewis B
914 Thayer Ralph F
916 Magoon Wallace H
917 Pratt Wm R
919 Helm Chas J
920 Lauter Harry R
921 Sturtevant Scott Jr Elm intersects
1000 McLane Frank W
1002 Merritt Wesley A
1005 Hart Jas M
Rushford Fred G
1006 Shear Assay
1007 Wise Riley D
1008 Curtis Martha E
1009 Cornwell Donald O
Oakwood av intersects
1103 Hart Parker
1104 Benson Martin J
1107 Hurdley Richd W
1108 Rau Ivan E
1109 Jacobs Leland B
1110 Chapelle Ernest H
1111 Wray Newton H
1113 Claunesch E J

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Wolverton Harold E
1115 Dudley Rachd J
Dudley Hazel Mrs
1116 Millman Sarah Mrs
1117 McCullough Robt V
1120 Chapman Paul C
1123 Ambrose Erwin J
1124 Yeatman Wm H
N Wallace blvd intersects
1203 Gaskell Walter L
1204 Youngs Harold H
1208 Cathers Fred E
Arthur Ernest O
1210 Hilbert Wm R
1215 Batchelor Emil
1216 Falk E Carl
1217 McKercher Alf
1219 Fish Clinton H
1220 Cox Elmer
1221 Jones Clarence D
1222 Fortunato Chas P
Owendate av intersects
1302 Walker Noel J bldg contr
1305 Warner Jas F
1306 Nehlsen Edw A
Mansfield av intersects
City limits
GREENLAWN AV--From Ecorse rd
South, 1 east Harris
638 Stone Oliver
Losey Chas F
640 Barber Lyle
660 Kellogg Buell W
GROVE N--From 400 E Michigan av
north to E Cross
6 Palmer Eug
10 Smith Cath T Mrs
14 Moore Tressa C Mrs
Chadwich Walter F
103 Vacant
104 Croghan Steph G
106 Allward Geo H MCR crosses
108 Meyer Chas C
112 Towler Edw
Towler Ray
114 Oisen Nels
Locust begins
216 Arend Lawrence
220 Monaghan Mary E Mrs
Case Lee
Seals Howard
224 Reed C Wesley
Roke David E
227 Gilbert Community House
Wright Fred E
Jones Margt Mrs
228 Peters Fredk J Jr
230 Turnbull Lyleth E
Hess Flora M drsmkr
301 Dieterle Fred Genl contr
302 Bedford Wm H
306 Smith Elz W Mrs
310 Seniff Henry M
GLENWOOD AV--Cont'd
325 Sample Edgar Davis av intersects
427 Brashears Wardell
Stephens Willie H
Ecorse rd intersects
and Belleville-Tyler road
Belleville-Tyler road intersects
GOCHOUR RD -- From 1965 W
Michigan av S
735 Russell Gertrude L Mrs
800 Seeger Elwyn S
805 Chesher Earl F
GORDON AV--From Dwight east to
est av
(No houses)
Hemphill rd intersects
Stanley rd intersects
N Prospect intersects
GRAND BLVD--From 1400 Wash-
tenaw av north to NYCRR
Whittier rd intersects
609 Hochrein Alpha G Mrs
Roosevelt blvd intersects
709 Koppin Esther B Mrs
714 Monteth Jos A
Ivanhoe av intersects (not open)
Kingwood av ends
Collegewood dr intersects
NYCRR west crossing
GRANT--From 113 N Summit west
to Fansfield av
904 Bausanos Chas
Lee Phillip Mrs
907 Hawthorne Wm E
909 LeCureux Alf
910 Prest Harold D
912 Rule Wm C
913 Skanner Lewis B
914 Thayer Ralph F
916 Magoon Wallace H
917 Pratt Wm R
919 Helm Chas J
920 Lauter Harry R
921 Sturtevant Scott Jr Elm intersects
1000 McLane Frank W
1002 Merritt Wesley A
1005 Hart Jas M
Rushford Fred G
1006 Shear Assay
1007 Wise Riley D
1008 Curtis Martha E
1009 Cornwell Donald O
Oakwood av intersects
1103 Hart Parker
1104 Benson Martin J
1107 Hurdley Richd W
1108 Rau Ivan E
1109 Jacobs Leland B
1110 Chapelle Ernest H
1111 Wray Newton H
1113 Claunesch E J

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 944 Wolverine Cab Co
 Cummings Delos D
 ΔPostal Telegraph-Cable Co
 McCormick Geo E
 950 Frank Wm L
 ΔPhi Sigma Epsilon Fraternity

FRANKLIN—From Hawkins west to Orchard—2 south of W Michigan av
 No houses

FREDERICK—From 440 Hawkins west to First av, 1 north of Harriet
 30 Joyner Geraldine Mrs
 ΔWestfield Henry W
 32 Perkins Geo W
 Worden av ends

35 SeEVERS Albert E
 36 Anderson Wm A Rev
 Golden Ernest W
 38 Hawkins Henry
 39 Anderson Henry
 40 Henry Stella Mrs
 41 Wilson Willie
 43 Duckett Isaac

Orchard begins
 44 Holmes Lucy
 46 Johnston Edw M
 47 Johnston Geo A
 Stewart Jas A
 49 Gray Stewart
 57 Luty Hindu
 58 Wilson Frank
 60 Vacant
 61 Durham John
 62 Stinson Marshall L

GLENWOOD BLVD—From Hawthorne av south to Belleville rd, 5 east of city limits
 147 Zwinakas Walter
 Jokubaitis John
 171 Russ Guy A
 181 Hepner Alce C Mrs
 Parkwood av ends
 Parkwood Earl C
 gdnr
 Maplewood av ends
 Reynolds Arch
 314 Gulick A Edwin
 427 Shaw Wm J

GORDON AV—From N River east to N Prospect av, 1 north of E Forest av
 No houses

GRAND BLVD—From Washienav av north 1 mile, 1 west of Cornell rd
 Whittier rd intersects
 608ΔHochrein Alpha Mrs
 Roosevelt blvd intersects
 709 Smith Bruce E

GRANT—From 117 N Summit west to city limits, 2 north of Congress
 904ΔGoetz Pearl L Mrs
 907ΔHawthorne Wm E
 909ΔAllen Geo W
 910ΔRemmer H Willard
 912 Papworth Maurice E

GROVE S—From 334 E Michigan av south, 5 east of Huron River
 7 Warner Lawrence W
 Brown Lizze H Mrs
 11ΔKennedy Marie E Mrs

High intersects
 301 Vacant
 302ΔMowrer Claude E
 306 Smith Eliz W Mrs
 310ΔSeniff Henry M
 315ΔCameron Wm W
 316ΔCleveringa Fredk B

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15 Shackelford Donald N
 Parson ends
 19 Keifer Selba C
 20 Simon Theresa Mrs
 Edmuller Arth J
 21 Overbeul Gerald R
 Shuck Grove
 22ΔWaite Jas G gro
 24 Wellbrook Clinton H
 25 Baldwin Piano Co
 ΔChadwick Carrie M Mrs
 pianos

Clough Chas
 Bender Wm D
 26 Bridle Francis H
 27 Culp Ernest C
 30 Packard Earl J
 31ΔBowerman Frank R
 33 Springstead Webster W
 South ends
 101ΔParr Floyd J
 102 McGovern Terrance
 106 Burd Albert N
 108ΔJacobs Clare R
 Pepper Glen W
 110 Roe Dayton A
 113 Sanderson Harold J
 114 Alexander Jesse H
 117ΔThumm LaMar F
 sand and gravel

118 Vacant
 119ΔKinsey Orville J well driller
 122 Hays Henry G
 123 Vacant
 125 Thumm Frank A
 128ΔNichols J Wayne
 Hillard Helen E Mrs
 137ΔTomford Ernest J
 159ΔMatthews Agnes K Mrs
 Nicholas Edw A
 169ΔMallette Frederica F Mrs
 Beckington Mark
 214 Res Carleton A
 217 Ypsilanti Arbeiter Hall
 218 Carroll Julia
 224ΔGlover Martha A Mrs
 Factory intersects
 302 Foerster Louis K
 Tyler Lewis H
 310ΔFoerster Albert C
 316ΔService Freight Lanes Inc
 317ΔWaite Jas G
 319 Hardin Jos M
 320 McCarter Mary Mrs
 414ΔYpsilanti Brewing Co
 426 Benedict Ben W
 436 Hendrickson Wm A
 Rankin Coy R

HAMILTON N—From 323 W Michigan av north, 4 west of Huron River
 9ΔSchrader Albert W
 11ΔSignor Carl W
 Pearson ends
 12ΔMcEnnan Eddy
 McEnnan's Flying Service
 14ΔDay Maurice G
 Sjaeb Edwin G
 15ΔCook Mary Mrs
 16 Freeman Mary B
 Baumer Ruth

Emmet intersects
 301 Frye Irma Mrs
 302ΔLamb Minnie L Mrs
 303ΔHines Edw A
 304ΔMoshier Frankie
 305ΔKenworthy John A
 306 Bradley Louis M
 307ΔClark Clyde M nurse
 Ely Anna Mrs
 309ΔDominican Sisters
 310 Barnhill Apartments
 Apartments
 1ΔBarnhill John F
 2 Evey Mack
 3 Halzeman Jas V
 4 Zielinski Raymond L
 5 Clark Robt
 6 Woods Marjune Mrs
 Street continued
 314 Smith Chas L
 W Cross intersects
 406 Vacant
 408 Sanderson Ada L Mrs
 410ΔHouse Harry J
 414 Dreyer Orville W
 418ΔRose Stanley O
 Florence intersects
 419ΔParsons Madison C
 420 Fairbanks Norman J
 422ΔHutang Jos
 423ΔElder Harley O
 427 Seeger Cath Mrs

Washienav av intersects
 201ΔHall Marcia V
 Barton Arth O
 205ΔHawks Michl C
 207 Hurley Stella S Mrs
 208ΔGarrett John C Dr
 212 Driscoll Sayers E
 Powers Wm J
 Alien Ada Mrs
 Taylor Ralph W
 213 Henry V Earl
 215ΔAugustus Harold T
 216ΔRoss Annabelle H Mrs
 220ΔWilloughby Geo M
 carp
 contr

Enmet intersects
 301 Frye Irma Mrs
 302ΔLamb Minnie L Mrs
 303ΔHines Edw A
 304ΔMoshier Frankie
 305ΔKenworthy John A
 306 Bradley Louis M
 307ΔClark Clyde M nurse
 Ely Anna Mrs
 309ΔDominican Sisters
 310 Barnhill Apartments
 Apartments
 1ΔBarnhill John F
 2 Evey Mack
 3 Halzeman Jas V
 4 Zielinski Raymond L
 5 Clark Robt
 6 Woods Marjune Mrs
 Street continued
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 420 Fairbanks Norman J
 422ΔHutang Jos
 423ΔElder Harley O
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Enmet intersects
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 302ΔLamb Minnie L Mrs
 303ΔHines Edw A
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 406 Vacant
 408 Sanderson Ada L Mrs
 410ΔHouse Harry J
 414 Dreyer Orville W
 418ΔRose Stanley O
 Florence intersects
 419ΔParsons Madison C
 420 Fairbanks Norman J
 422ΔHutang Jos
 423ΔElder Harley O
 427 Seeger Cath Mrs

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GRANT—Cont'd
1203 Renton Merle G bldg contr
1204 Vacant
1210 Scott Chas E
1215 Batchelor Emil G
1305 Warner Jas F
Owendale intersects

GREENLAWN AV—From Belle-ville rd north to Ecorse rd
ws 1 n Hubbard Cecil
ws 2 n Westfall Clark P

GROVE N—From Michigan av E north, 4 east of Huron river
6 Bender Wm D
10 Swaney Steph
11 Cornish Clarence D
14 Moore Lewis B
15 O'Leary Minnie Mrs
Eabbitt ends

103 Locke Pattern Works
104 Croghan Steph G
106 Allward Geo H
MCRRE crosses
108 Bugge Louis N
112 Towler Edwin
114 Vacant

216 Baker John H
220 Monaghan Mary E
224 Reed Chas W
227 Tuttle Rex
Arm-of-Honor Fraternity
228 Stuck Geo A
230 Turnbull Jessie M Mrs
High intersects

301 Vacant
302 Mower Claude E
306 Smith Ralph C taxicabs
310 Norton Harry E
Hubbard Ella C Mrs
315 Johnson Arth
316 Dungelev Geo
GROVE S—From E Michigan av south, 5 east of Huron River
5 Anderson Geo W
7 Keenn Herman J
11 Kennedy Marie E Mrs
15 Golden Harry
Parson ends

19 Keifer Selburn C
20 Marken Glenn A
21 Davis Francis H
22 Welbrook Clinton H gro
24 Wellbrook Clinton H
25 Bergin Eliz A Mrs
Chadwick Carrie M Mrs
26 Crawford Kenneth G
Pepper Thayer O
27 Ernst Ernest M
30 Clark Newton W

31 Bowerman Frank R
33 Springstead Webster W
South ends

101 Keener Leroy O
102 Alford Earl M
105 Thayer C LeRoy
106 Burd Albert N
Money Harrnett E Mrs
109 Lightburn Steph
110 Vacant
113 Sanderson Harold J
114 Wesley Geo A
117 Thumm John C cartage
118 Reddaway Donald W
119 McGlone Bruce
122 Have Henry G
123 Juil Emeline Mrs
Driver Frances S A Mrs
125 Thumm Frank

126 Vacant
137 Frencher Don H
159 Matthews Ernest D
169 Mallette Frederika Mrs
217 Ypsilanti Arbeiter Verein and Hall
218 Carroll Julia
224 Estes Lewis
Factory intersects

302 Foerster Louis K
Tyler Lewis H
310 Foerster Albert C
316 Bigger Lunch Co
317 Vacant
319 Bigger Thos W
320 McCarter Mary Mrs
Stewart ends

412 Vacant
413 Tibbetts C Edw auto repr
415 Tibbetts C Edw
426 Vacant
436 Mosier Chas A
Stalling Virgil J
HAMILTON N—From 323 W Michigan av north, 4 west of Huron River
9 Schradler Albert W
11 Huebner Anna Mrs
Pearson ends

12 Cushman Clyde E
14 Day Maurice G
15 Staeb Edwin G
16 Cook Mary Mrs
16 Freeman Mary B
19 Beach Daisy M Mrs
20 VanBuren Elsie
Pearl intersects

101 Meredith Chas H
102 Matteson Jane L
105 Marshall Geo W
Kelly Wm H
Eddy Clarence N
Senstus Maurits W
Leighton H Richd

J. E. Moore & Co.
Res Phone 37-M
LYNN R. SCHAFFER, Asst
Tel 380-W
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Tel. 380-R

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108 Martin Jas S
109 Deil Raymond M
Case L Lutricia
110 Bradley Elvin F
113 Ruggles Sophia Mrs
114 Bessie Leach Priddy House
Knisley Grace Mrs
115 Renton Geo D
116 Burrell Paul M
119 Bell Wm J
Holt Drury
120 Spencer C Fred
122 Daley Geo
125 Sigma Mt Sigma Fraternity
Washtenaw av intersects

201 Hall Marcia V
Barton Arth O
205 Hawkins Michl C
207 Vacant
208 Garrett John C Dr
212 Druscol Savrs E
Dusibier Wm
Newkirk Geo L
213 Cook Wm G
215 Cosgrove Darrell J
216 Ross DeForest
220 Smith Mae Mrs
Zeta Chi Sigma Fraternity
Emmet intersects

301 Ebersole Frances B Mrs
302 Lamb Minnie L Mrs
303 Hines Edw A
304 Moshier Frankie
305 Kenworthy John A
306 Cohan Walter H
307 Clark Irene O
Clark Clyde M nurse
Carson Louis
Ely Anna Mrs
309 Dominica Sisters
310 Barnhill Apartments
Apartments
1 Barnhill John F
2 Vacant
3 Crampton Frank
4 Evey Maek
5 Gregg Glenn C
6 Myers Gerald
Street continued

314 Brothers Harry F
317 Keifer Helen Mrs
Gross intersects
406 House Harry J
408 Sanderson Ada L Mrs
410 Holtzhauser Alf H
414 Dell Jos E
418 Rose Stanley O
Florence intersects
419 Parsons Madison C
420 Thoms Clifford J
422 Cole Hattie Mrs
423 Hulting Jos
427 Richard Claude O
427 Seeger Chas
431 Meanwell Chas J
434 Pepper H Clay gro
Olive intersects

501 Foy Wm E
502 Braun Sophia Mrs
504 Culver Sarah Mrs
505 Lewis Alton E
507 Wales Ora K
508 Simon Clarence L bldg contr
510 Hand Anna E Mrs
512 Himes Roseco

516 Potter Celia V drsmkr
Stocking Wilbert
520 Fenn Geo
Carr Susie E Mrs
HAMILTON S—From 323 W Michigan av south, 4 west of Huron River
4 Tripp Howard R
6 Ehman Kate Mrs
11 Gahman Meryl L
15 Hamernik Stanley
16 Judd Herbert B
Barbour Alf E
17 Wain Bertha E Mrs
Sanderson Harvey E
19 Glasson Louise A Mrs
20 Thompson Kitie L Mrs
Washtenaw av intersects

102 Elliott Richd W
106 Harrington Fredk E pntr
111 Seckinger Wm F
112 Boor Perry E
113 Cadwell Hattie C
114 Luckhardt Julius E
115 Howard Alf L
116 Nimeshan Anthony
118 West Jerome
122 Gates Clifford
Woodward ends

204 Marks Arth
206 Blackmer Henry D
208 Hale Fred L
210 Dieterle Fred
212 Keeney John L
214 Rapp Albert J
216 Carey Newton R
Catherine ends
se cor Second Baptist Church
309 Morton John W
311 Nash Jesse
321 Williams Susie Mrs
Buffalo ends

403 Freeman Lee
412 Meldrum Gordon C
415 Perry Lawrence C dentist
Bow Egbert house mover
417 Neely Ben
rear Myers Frank
417 1/2 Williams Willie
431 Crosby Jas D
433 White Walter
435 Owens Clarence E
463 Bass Moses
467 Murphy Philip
Harriet intersects

512 Jones Luther
518 Crosby Rebecca Mrs
522 DeBaptiste Jas L
526 Merriman Philip H
527 Harrison Wilbert A
Johnson Dock
HARRIET—From 454 S Huron west to First av, 5 south of Michigan av
Washington S ends
209 Golman Eliotte
211 Wilson Jas
212 Taylor Claburn
213 Horn Chas F
214 Caldwell John
216 Wilson Ben

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GRANT—Contd
917 Duggan Paul
920 Napp Adam
921 Heininger Fred C

Elm Intersects
1000 McLane Frank W
1002 Merritt Wesley A
1005 Hart Jas S M
1006 Blaha Frances L
1007 Wagner H F
1008 Shough Jesse W
1009 Edmonds John W contr

Oakwood av Intersects
1103 Loeffler A W
1104 Cruce Leman D phys
1107 Buell Ada Mrs
1108 Wright Ruel N
1109 Vacant
1113 Cushman Edwin D
1114 Fishel Ortha H Mrs
1123 Ambrose Erwin J
1124 Dieter Allen A

Wallace Blvd Intersects
1204 Fetter's Martin
1210 Scott Chas E
1215 Batchelor Emil G
1305 Warner Jas F

GROVE N—From Michigan av E north, 4 east Huron River
6 Harner Rexford J
10 Reed Herbert E
11 Warner Cassius M
14 Moore Lewis B
15 O'Leary Wm

Rabbit ends
103 Ypsilanti Motor Castings Co
Locke Pattern Wks
104 Croghan Steph J
106 Allward Geo H

MORR Intersects
108 Meyers Clarence
112 Towler Edwin
114 Hamernuk Norbert

Locust begins
216 Baker John H
220 Monaghan Mary
224 Reed C Wesley
Stewart Alice G Mrs
227 Vacant
228 Stuck Geo
230 Turnbull Jessie M Mrs

High Intersects
301 Woodward Ada L
302 Mowier Claude E
306 Smith Ralph C taxi cabs

310 Hubbard Shop The wall paper
Hubbard Chas E
315 Johnson Arth
316 Dungeley Geo

GROVE S—From Michigan av E south, 5 east Huron River
5 Collin Minnie Mrs
7 Vacant
11 Kennedy Marie E Mrs
15 Schock Herbert

Parsons ends
19 Keifer Selba
20 Yeagen Harbert W
21 Davis Mary A Mrs
22 Wellbrook Clinton H gro
25 Bergin Fred
26 Gooosbeck Ward
27 Vacant
30 Armstrong Bert D
Clark Newton

31 Bowerman Frank R
33 Spangstead Webster

South ends
101 Parr Floyd J
102 Alford Earl M
105 Harker Allison J
106 Buid Albert N
109 Lightburn Steph
110 Eastman Jay B
113 O'Connor Frank P
114 Vealey John
117 Thumm John jr cartage
118 Kicherer Susan Mrs
119 VanAken Arth E
122 Haye Henry G
123 Jull Emeline Mrs
Driver Frances Mrs

125 Thumm Frank
126 Oelke Matilda Mrs
137 McCarter Wm
159 Matthews Ernest D
169 Vacant
217 Ypsilanti Arbeiter Verein and Hall
218 Carroll Julia
224 Estes Lewis

Factory Intersects
302 Foerster Louis K
310 Foerster Albert C
316 Detroit Creamery Co
320 McCarter Mary Mrs

Stewart ends

Is answered in the Classified Business Lists in this Directory. Consult them.

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411 Vacant
412 Foerster A C Body Mfg Co auto bodies
426 Max Peter
436 Vacant

HAMILTON N—From Michigan av E north, 4 west Huron River
9 Schrader Albert W
11 Wales Ora K

Pearson ends
12 Lewis Wm
14 Day Maurice G
Staeb Edw G
15 Cook Mary Mrs
16 Freeman Maria A Mrs
19 Goetze Alex C
Wood Geo H
20 Mettert Floyd

Pear Intersects
101 Meredith Chas H
Crockett Thos
102 Matteson Jane L
105 Smith Lyle D
Williamson Elta I Mrs
108 Vacant
109 Case L Lacretia
Dell Raymond
110 Pullen Chas R
113 Ruggies Sophia A Mrs
Leach Florence S
114 Harrison Thos pntr
115 Renton Geo D
116 Burrell Paul M
119 Bell Wm J
120 Spencer C Fred
125 Bessie Leach Priddy House

Ellis Intersects
201 Hall Marcia V
Barton Arth
205 Rowland Wm C
207 Tutthill Mary Mrs
208 Garrett John C Dr
212 Gatz John C
Fulcher Max E
213 Cook Wm G
215 Cosgrove Jas P
216 Ross DeForrest
220 Smith L May Mrs

Emmet Intersects
301 Ebersole Frances B Mrs
302 Lamb Minnie L Mrs
303 Hines Edw A
304 Mosher Frankie
305 Kenworthy John A
306 Smith Chas R
307 Ely Anna Mrs
MacFarlane Richd D

309 Dominican Sisters
310 Barnhill John F
Riskey Earl
317 Kelly Thos

Cross Intersects
406 Peterson Axel G
408 Sanderson Clarence L
410 Holzhauser Alf
414 Dell Jos R
418 Rose Stanley O

Florence Intersects
419 Parsons Madison C
420 Thompson Maria C Mrs
422 Hunting Jos
423 Richard Claude O
427 Seeger Chas
431 Meanwell Chas J
434 Colonial Grocery

Olive Intersects
501 Golczynski Louis A
502 Braun Sophia Mrs
504 Culver Sarah Mrs
505 Lewis Alton E
507 Roe Noble
Manzer Walter
508 Neumaier Danl
510 Hand Anna E Mrs
512 Cummings Orwin D
516 Potter Celia V drsmkr
520 Fenn Geo
Carr Susie E Mrs

HAMILTON S—From Michigan av south, 4 west Huron River
4 Tripp Howard R
6 Eberman Mulo F
11 Sanderson Clifford B
15 Hamernuk Stanley
16 Vacant
17 Wain Adelbert
19 Glasson Louise A Mrs
20 Thompson Kath Mrs

Ferris ends
102 Lonskey John H
106 Harrington Fredk E
Jones Clarence
111 Seckinger Wm
112 Boor Perry E
113 Stevens Clara M
114 Luckhardt Julius
115 Howard Alf L
116 Nimmesben Kath Mrs
118 Welsh Ella Mrs
122 Jenison Wm H
Woodward ends
204 Marks Arth
206 Blackmer Henry D
208 Vacant

F. A. Dupont
Realtor

Real Estate Sub-divisions
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Homes
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PHONE 196

HURON Hotel Bldg.

YPSILANTI

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GENERAL CONTRACTORS

Appendix G

Previous Environmental Reports



PHASE I ENVIRONMENTAL SITE ASSESSMENT

220 North Park Street, Ypsilanti, Michigan

PREPARED FOR City of Ypsilanti
City Clerk's Office, 1st Floor
1 South Huron Street
Ypsilanti, Michigan 48197

PROJECT # 10627f-2-17

DATE October 9, 2015

EXECUTIVE SUMMARY I

1.0 INTRODUCTION..... 1

 1.1 PURPOSE 1

 1.2 SCOPE OF SERVICES 2

 1.3 LIMITING CONDITIONS AND EXCEPTIONS 2

 1.4 SPECIAL TERMS AND CONDITIONS 2

 1.5 RELIANCE..... 2

2.0 USER AND/OR CLIENT PROVIDED INFORMATION 2

 2.1 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS 3

 2.2 SPECIALIZED KNOWLEDGE OR EXPERIENCE OF THE USER 3

 2.3 ACTUAL KNOWLEDGE OF THE USER 3

 2.4 VALUE REDUCTION DUE TO CONTAMINATION 3

 2.5 COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION..... 4

 2.6 PRESENCE OR LIKELY PRESENCE OF CONTAMINATION 4

 2.7 REASON FOR PERFORMING THIS PHASE I ESA..... 4

3.0 SUBJECT PROPERTY DESCRIPTION 4

 3.1 LOCATION AND LEGAL DESCRIPTION 4

 3.2 SUBJECT PROPERTY AND VICINITY CHARACTERISTICS..... 4

 3.3 DESCRIPTION OF STRUCTURES AND OTHER IMPROVEMENTS 5

 3.4 CURRENT USE OF THE SUBJECT PROPERTY 5

 3.5 UTILITIES AND MUNICIPAL SERVICES 5

 3.6 CURRENT USES OF THE ADJOINING PROPERTIES 6

4.0 RECORDS REVIEW 7

 4.1 PHYSICAL SETTING SOURCES 7

 4.2 STANDARD ENVIRONMENTAL RECORD SOURCES..... 8

 4.2.1 Subject Property Listings 9

 4.2.2 Adjoining Properties..... 9

 4.2.3 Nearby Sites..... 11

 4.3 REGULATORY AGENCY FILE AND RECORDS REVIEW 12

 4.3.1 MDEQ Resource Management Group (RMG)..... 12

 4.3.2 MDEQ Remediation and Redevelopment Division (RRD)..... 13

 4.3.3 Michigan Department of Licensing and Regulatory Affairs (LARA) 13

 4.3.4 MDEQ Office of Oil, Gas and Minerals (OOGM) 14

 4.3.5 MDEQ Air Quality Division (AQD) 15

4.3.6	MDEQ Water Resources Division (WRD)	15
4.4	ADDITIONAL ENVIRONMENTAL RECORD SOURCES	15
4.4.1	Local Health Department	15
4.4.2	Local Fire Department	15
4.4.3	Previous Environmental Reports	15
4.5	HISTORICAL USE INFORMATION	15
4.5.1	Aerial Photographs	16
4.5.2	Fire Insurance Maps	17
4.5.3	City Directories	18
4.5.4	Assessing Department Records	19
4.5.5	Building Department Records	19
4.5.6	Recorded Land Title Records	19
4.5.7	Other Historical Information	19
5.0	INTERVIEWS	19
5.1	INTERVIEW WITH SUBJECT PROPERTY OWNER	19
5.2	INTERVIEW WITH KEY SITE MANAGER	19
5.3	INTERVIEW WITH SUBJECT PROPERTY OCCUPANT(S)	19
5.4	INTERVIEW(S) WITH OTHERS	20
6.0	SUBJECT PROPERTY RECONNAISSANCE	20
6.1	METHODOLOGY AND LIMITING CONDITIONS	20
6.2	GENERAL SUBJECT PROPERTY SETTING AND OPERATIONS	20
6.3	OBSERVATIONS	20
6.3.1	Hazardous Substances and Petroleum Products	20
6.3.2	Hazardous and Non-Hazardous Waste	21
6.3.3	Storage Tanks	21
6.3.4	Unidentified Substances/Containers	21
6.3.5	Potential Polychlorinated Biphenyl (PCB) Containing Electrical Equipment	21
6.3.6	Interior Staining / Corrosion	22
6.3.7	Drains and Sumps	22
6.3.8	Discharge Features	22
6.3.9	Pits, Ponds, and Lagoons	22
6.3.10	Solid Waste Dumping / Landfilling	22
6.3.11	Stained Soil, Stressed Vegetation, Stained Pavement	23
6.3.12	Well and Septic Systems	23
6.3.13	Other Observations	23
6.3.14	Adjoining Properties	23
6.4	NON-ASTM SCOPE CONSIDERATIONS	23
7.0	FINDINGS, OPINIONS, AND CONCLUSIONS	23

7.1 RECOGNIZED ENVIRONMENTAL CONDITIONS 24

7.2 CONTROLLED RECOGNIZED ENVIRONMENTAL CONDITIONS 24

7.3 HISTORICAL RECOGNIZED ENVIRONMENTAL CONDITIONS 24

7.4 DE MINIMIS CONDITIONS 25

7.5 AREAS OF POTENTIAL ENVIRONMENTAL CONCERN 25

8.0 DEVIATIONS 25

9.0 DATA GAPS 25

10.0 PROJECT RESOURCES AND REFERENCES..... 25

11.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS 26

QUALIFICATIONS

FIGURES

Figure 1 Topographic Location Map

Figure 2 Subject Property Map

Figure 3 Subject Property Location Map

APPENDICES

Appendix A General Limitations and Exceptions

Appendix B Property Description and Parcel Map

Appendix C Reconnaissance Photographs

Appendix D Standard Environmental Record Database Report

Appendix E Aerial Photograph Documentation

Appendix F Fire Insurance Map Documentation

Appendix G Other Relevant Documentation

PHASE I ENVIRONMENTAL SITE ASSESSMENT

220 North Park Street, Ypsilanti, Michigan

AKT Peerless Project No. 10627f-2-17

Executive Summary

AKT Peerless conducted a Phase I Environmental Site Assessment (ESA) for the subject property as described below in accordance with US EPA Standards and Practices for All Appropriate Inquires [(AAI), 40 CFR Part 312] and ASTM Standard Practice E 1527-13 (ASTM Practice E 1527). This Phase I ESA was performed for The City of Ypsilanti (Client) in connection with an evaluation of the subject property.

Subject Property Description

Address	220 North Park Street, Ypsilanti, Michigan
Land Area	4.46
Parcel ID Number(s)	11-11-09-111-004
Number of Building(s)	1
Date(s) of Construction	Early 1970's, addition in the early 1990's
Building Square Footage	10,000 (footprint)
Current Use	Vacant Boys and Girls Club Recreation Building
Current Occupants	Unoccupied
Past Use	Undeveloped / Boys and Girls Club Activity Field and Center (1940s-2010)
Adjoining Property Uses	Northwest: Light industrial North: Residential East: Residential Southeast: Vacant South: Light industrial Southwest: Light industrial West: Vacant
Inferred Groundwater Flow Direction	Southwest
Approximate Groundwater Depth	Unknown

OPINIONS AND CONCLUSIONS

Recognized Environmental Conditions (RECs)

This assessment has revealed no evidence of known RECs in connection with the subject property, except for the following:

REC 1 - During AKT Peerless Site Reconnaissance, fill material (soil and concrete) was observed within the thick vegetation located along the southern property boundary. The nature and extent of this fill material is unknown. Therefore, further investigation and/or assessment is warranted in order to evaluate the nature, extent, magnitude, and materiality of REC 1.

REC 2 - A southeastern adjoining property (206 N. Grove Street) was identified as an oil distributor which utilized a bulk oil storage yard from the mid 1950's until the late 1970's. This site was also listed as a State Hazardous Waste Site (SHWS) and was identified on the Baseline Environmental Assessment (BEA) database. In AKT Peerless' opinion, the past use of this adjoining property and identification on the SHWS and BEA databases represents a REC. Therefore, further investigation and/or assessment may be warranted in order to evaluate if potential contaminants have migrated to the subject property.

REC 3 - A southern adjoining property (204 N. Park Street) was utilized as a coal storage yard and bulk oil and gasoline storage facility in the 1920's until the early 1970's. No information regarding any current or former USTs, ASTs, installation and removal dates, business practices, or other environmental data was identified. In AKT Peerless' opinion, the past use of this adjoining property represents a REC. Therefore, further investigation and/or assessment may be warranted in order to evaluate if potential contaminants have migrated to the subject property.

REC 4 - A southern adjoining property (103 N. Park Street) has been utilized for various industrial operations (including manufacturing, machine shop, foundry and plating operations) from at least 1916 until the present day. This site was also listed on the Resource Conservation and Recovery Act and Comprehensive Environmental Response, Compensation, and Liability Information System databases with multiple hazardous waste violations identified. In AKT Peerless' opinion, the current and past use of this adjoining property represents a REC. Therefore, further investigation and/or assessment may be warranted in order to evaluate if potential contaminants have migrated to the subject property.

REC 5 - A western adjoining property (223 N. Park Street) historically operated as a coal storage yard from at least 1916 until the mid-1960's. In AKT Peerless' opinion, the past use of the western adjoining property as a coal storage yard represents a REC. Therefore, further investigation and/or assessment may be warranted in order to evaluate if potential contaminants have migrated to the subject property.

Controlled Recognized Environmental Conditions (CRECs)

This assessment has revealed no evidence of known CRECs in connection with the subject property.

Historical Recognized Environmental Conditions (HRECs)

This assessment has revealed no evidence of known HRECs in connection with the subject property.

The Executive Summary above is an overview of the opinions and conclusions of this Phase I ESA and shall not be considered apart from the entire report, which contains the rationale and qualifications used by AKT Peerless in making the opinions and conclusions presented herein. Furthermore, non-ASTM scope considerations, if any, are reported in Section 6.4 and Other Potential Environmental Concerns (PECs), if any, are reported in Section 7.5. These conditions are not included in this Executive Summary.

1.0 Introduction

The City of Ypsilanti (Client) retained AKT Peerless to conduct a Phase I Environmental Site Assessment (ESA) of 220 North Park Street in Ypsilanti, Washtenaw County, Michigan (subject property). This Phase I ESA was conducted in accordance with: (1) the United States Environmental Protection Agency (USEPA) Standards and Practices for All Appropriate Inquiries [(AAI), 40 CFR Part 312] and (2) guidelines established by the American Society for Testing and Materials (ASTM) in the *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process / Designation E 1527-13* (ASTM Practice E 1527).

For the purpose of this Phase I ESA, the Client is the party that retained AKT Peerless to complete this Phase I ESA. AKT Peerless has not made an independent determination if its Client is also a *User* that intends to rely on this Phase I ESA to qualify for Landowner Liability Protection (LLP) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980. In accordance with ASTM Practice E 1527, a *User* is the party seeking to use ASTM Practice E 1527 to complete an environmental site assessment of the subject property. A *User* may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager. Furthermore, a *User* seeking to qualify for an LLP to CERCLA liability has specific obligations for completing a successful application of this practice. AKT Peerless' scope of work does not include an evaluation or completion of these specific user obligations under ASTM Practice E 1527, unless otherwise noted.

1.1 Purpose

The purpose of this Phase I ESA was to evaluate the current and historical conditions of the subject property in an effort to identify *recognized environmental conditions* (RECs)¹ *historical recognized environmental conditions* (HRECs)², *controlled recognized environmental conditions* (CRECs)³, and *de minimis conditions*⁴ in connection with the subject property. Moreover, this practice may permit certain users of this Phase I ESA to satisfy environmental due diligence requirements to qualify for the bona fide prospective purchaser, contiguous landowner, or innocent landowner limitations under CERCLA, the Superfund Amendments and Reauthorization Act (SARA) of 1986, and the Small Business Liability and Brownfield Revitalization Act (Brownfield Amendments) of 2002. This Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for environmental conditions in connection with the subject property.

¹ ASTM Standard Practice E 1527-13 defines the term REC as the presence or likely presence of any hazardous substance or petroleum product in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.

² ASTM Standard Practice E 1527-13 defines the term HREC as a past release of any hazardous substance or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted residential use criteria established by a regulatory authority, without subjecting the property to any required controls.

³ ASTM Standard Practice E 1527-13 defines the term CREC as a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.

⁴ ASTM Standard Practice E 1527-13 defines the term de minimis condition as a condition that generally does not present a threat to human health or the environment and that generally would not be subject to an enforcement action if brought to the attention of appropriate government agencies.

1.2 Scope of Services

AKT Peerless' scope-of-services is based on its proposal PF-17935, August 6, 2015, and the terms and conditions of that agreement. This Phase I ESA included the following:

- An inquiry of environmental conditions by an Environmental Professional.
- A review of specialized knowledge reported by the Client.
- A review of relevant public and historical records, including those maintained by federal, state, tribal, and local government agencies.
- Interviews with relevant regulatory officials and personnel associated or knowledgeable with the subject property, including as appropriate past and present owners, or neighbors if the subject property is abandoned.
- A reconnaissance of the subject property. The adjoining properties were observed from the subject property and from readily accessible public rights-of-way.

1.3 Limiting Conditions and Exceptions

A list of general limitations and exceptions typically encountered when completing Phase I ESAs is provided in Appendix A. In certain instances, limiting conditions, data failures, or data gaps, as defined by ASTM, may prevent adherence to all ASTM Practice E 1527 requirements. In such cases, the limiting conditions, data gaps, or data failures are discussed in the appropriate sections of this report.

Should additional information become available to the Client that differs significantly from our understanding of conditions presented in this report, AKT Peerless requests that such information be forwarded immediately to our attention, so that we may reassess the conclusions provided herein and amend this project's scope of services as necessary and appropriate.

1.4 Special Terms and Conditions

To the best of AKT Peerless' knowledge, no special terms or conditions, or client-imposed constraints, apply to the preparation of this Phase I ESA.

1.5 Reliance

AKT Peerless performed this Phase I ESA for the benefit of its Client, The City of Ypsilanti. AKT Peerless acknowledges that this party may rely on the contents and conclusions presented in this report. Unless stated otherwise in writing, AKT Peerless makes no other warranty, representation, or extension of reliance upon the findings of this report to any other entity or third party.

2.0 User and/or Client Provided Information

In order to qualify for one of the LLPs offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2002 (the "Brownfields Amendments"), a *User* must conduct certain inquiries as described in 40 CFR 312. If the Client intends to use ASTM Practice E 1527 to qualify for a LLP to CERCLA liability, then AAI requires that certain tasks be performed by - or on behalf of - that party. As appropriate, these inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. While such information is not required to be provided to the Environmental Professional, AKT Peerless requested this information from its Client in the form of a Questionnaire, Document Request Form, and Interviews as such information can assist the Environmental Professional in identifying environmental conditions.

AKT Peerless provided a Questionnaire and Document Request Form to Ms. Beth Ernat of The City of Ypsilanti. As appropriate, AKT Peerless conducted follow-up interviews with Ms. Ernat. The following subsections summarize the information and responses provided by the Client. The completed Questionnaire is provided in Appendix G.

2.1 Environmental Liens or Activity and Use Limitations

ASTM Practice E 1527 Section 6.2 and AAI (40 CFR 312.20, 25, and 26) require that Users search recorded title and judicial records for registered Environmental Liens or/and Activity and Use Limitations (AULs). The results of the User's search should be communicated to the Environmental Professional. This search is in addition to the review of environmental liens and AULs conducted by the Environmental Professional (refer to Section 4.3.2 of this Phase I ESA).

The Client did not report any: (1) environmental cleanup liens against the subject property that are filed or recorded under federal, tribal, state, or local law; (2) activity and use limitations (AULs), such as engineering controls, land use restrictions or institutional controls, that are in place at the subject property and/or have been filed or recorded in a registry under federal, tribal, state, or local law; or (3) recorded land title or judicial records.

2.2 Specialized Knowledge or Experience of the User

ASTM Practice E 1527 Section 6.3 and AAI (40 CFR 312.28) require that the User take into account their specialized knowledge to identify conditions indicative of releases or threatened releases associated with the subject property, and suggests this information be communicated to the Environmental Professional before the site reconnaissance.

The Client did not report any specialized knowledge or experience regarding the environmental condition of the subject property.

2.3 Actual Knowledge of the User

ASTM Practice E 1527 Section 6.4 suggests that the User communicate actual knowledge of any environmental lien or AULs associated with the subject property to the Environmental Professional.

The Client did not report any actual knowledge of environmental liens or AULs associated with the subject property.

2.4 Value Reduction Due to Contamination

For transactions involving the purchase of commercial real estate, ASTM Practice E 1527 Section 6.5 and AAI (40 CFR 312.29) require the User consider the relationship of the purchase price to the fair market value of the subject property as an indicator of potential contamination and make a written record of that explanation.

The Client did not report knowledge of, or reason to anticipate, a reduction in the value of the subject property for environmental issues.

2.5 Commonly Known or Reasonably Ascertainable Information

ASTM Practice E 1527 Section 6.6 and AAI (40 CFR 312.30) require the User to take into account commonly known or reasonably ascertainable information within the local community about the subject property.

The Client did not report any such commonly known or reasonable ascertainable information.

2.6 Presence or Likely Presence of Contamination

ASTM Practice E 1527 Section 6.7 and AAI (40 CFR 312.31) require the User to consider the degree of obviousness of the presence or likely presence of contamination at the subject property, and the ability to detect the contamination by appropriate investigation.

The Client did not report on the degree of obviousness of the presence or likely presence of contamination at the subject property or the ability to detect the contamination by appropriate investigations.

2.7 Reason for Performing this Phase I ESA

ASTM Practice E 1527 requires that the User provide the Environmental Professional with the reason for performing the Phase I ESA.

The Client reported that this Phase I ESA was conducted as part of environmental due diligence related to an evaluation of the subject property in preparation for the future redevelopment activities.

3.0 Subject Property Description

3.1 Location and Legal Description

The subject property is located in the northeast ¼ of Section 9 in Ypsilanti (T.3S. /R.7E.), Washtenaw County, Michigan. The subject property is located on the east side of North Park Street, south of High Street. See the following table for additional subject property details:

Subject Property Identifiers

Address	Tax Identification Number	Owner of Record	Approximate Acreage
220 North Park Street	11-11-09-111-004	City of Ypsilanti	4.46

Refer to Figure 1, Topographic Location Map; Figure 2, Subject Property Map; and Figure 3, Subject Property Location Map. The legal description of the subject property is presented in Appendix B.

3.2 Subject Property and Vicinity Characteristics

The subject property is currently zoned Mid-Core Neighborhood (CN) and is located in an area of Ypsilanti that is characterized by residential, commercial, and industrial properties, surface roadways, municipal sanitary sewer and water, and electrical and gas utilities.

3.3 Description of Structures and Other Improvements

General information regarding the on-site building is presented in the following table:

Subject Building 1: 220 North Park Street

General Construction	Two-story, flat roof, concrete and steel frame, concrete exterior, concrete slab on grade foundation, no basement
Predominant Interior Finish	Concrete floors, acoustical ceiling tiles, paint, wood, metal, glass, resilient floor tile, concrete
Square Footage	10,000 (footprint)
Construction and Other Improvement Dates	Early 1970's Addition in the early 1990's
Interior Areas	Former Boys and Girls Club recreation center consisting of various classrooms, bathrooms, gymnasium, kitchen, offices, and a garage

The exterior of the subject property consists of gravel parking areas, landscaped areas, baseball field area and a basketball court.

Photographs taken during AKT Peerless' subject property reconnaissance are provided in Appendix C.

3.4 Current Use of the Subject Property

The subject property consists of vacant Boys and Girls Club recreation center that is not currently used for any significant or obvious purpose. The subject property has been unoccupied since November 2010, at which point the property was donated to the City of Ypsilanti. The exterior of the subject property consists of a gravel driveway and parking areas, a basketball court, two baseball dugouts with associated baseball field, and landscaped areas.

3.5 Utilities and Municipal Services

AKT Peerless identified the type and supplier of utilities provided to the subject property. These services are described in the following table:

Subject Property Utility Data

Utility / Service	Type	Utility Company or Municipality	Comments/Historical Services
Heat	Natural Gas	Detroit Edison	A natural gas connection date was not identified during the course of this Phase I ESA.
Potable water	Municipal	Ypsilanti Community Utility Authority	According to Fire Insurance Maps, municipal water was available to the area surrounding the subject property since at least 1916. A municipal water connection date was not identified during the course of this Phase I ESA.
Electricity	Electric lines /transformer	DTE Energy	Electricity is connected to the subject property.
Sewage disposal	Municipal	Ypsilanti Community Utility Authority	A municipal sewage connection date was not identified during the course of this Phase I ESA.
Storm water	Municipal	City of Ypsilanti	Storm water utilities are available to the subject property

Since a connection date to municipal water and sewer could not be determined for the subject property, the possibility exists that a well and/or septic system was used by the subject property prior to the connection of municipal water and sewer. However, it is likely these features would have been identified and removed when the site was connected to municipal water and sewer.

A connection date to natural gas was not identified during the course of this assessment. The potential for the past use of fuel oil USTs on the subject property was considered. However, based on: (1) review of available information, (2) observations during the completion of the Phase I ESA, and (3) lack of documentation indicating the presence of any fuel oil USTs on the subject property, it is AKT Peerless' opinion that all appropriate inquiry has been performed to reduce uncertainty regarding environmental concerns associated with the potential use of fuel oil USTs. Therefore, no further investigation of potential fuel oil USTs is warranted at this time.

3.6 Current Uses of the Adjoining Properties

The following table describes the current uses and/or occupants of the adjoining properties, as identified during this Phase I ESA:

Adjoining Property Data

Direction	Address	Current Use / Occupant
Northwest	301 North Park Street	Light Industrial / Marino Engineering Inc.
North	302-315 High Street	Residential / Private residences

Direction	Address	Current Use / Occupant
	227 North Grove Street	Residential / Private residence
East	224-208 North Grove Street	Residential / Private residences
Southeast	206 North Grove Street	Vacant land
South	204 North Park Street	Light Industrial / Unknown
	103 North Grove Street	Light Industrial / Marsh Plating Corporation
Southwest	215 North Park Street	Residential / Private residence
West	223 North Park Street	Vacant land

4.0 Records Review

The objective of the records review is to evaluate reasonably ascertainable databases, historical records, and physical setting records to help identify RECs at the subject property and, to the extent identifiable, at surrounding properties.

4.1 Physical Setting Sources

AKT Peerless reviewed various available physical setting sources about the geologic, hydrogeologic, hydrologic, and topographic characteristics that may affect potential contaminant migration to the subject property, or within or from the subject property. The results of AKT Peerless' review are presented in the following table:

Physical Setting Data

Physical Setting Information		Data Sources
General Topography and Hydrogeology		
Subject Property Elevation	739 feet above the National Geodetic Vertical Datum	USGS' Topographic Map of the Ypsilanti East, Michigan Quadrangle (photo revised 1996)
Topographic Gradient	Slopes to the southwest	
Closest Surface Water	Huron River located approximately 930 feet west of subject property	
General Soil and Geology		
Bedrock	Bedford Shale of an unassigned group and series within the Devonian System of the Paleozoic Era.	MDNR Geological Survey Division's <i>Bedrock Geology of Southern Michigan</i> (1987)

Physical Setting Information		Data Sources
Quaternary Soils Description	Lacustrine clay and silt, described as gray to dark reddish brown and are varved in some localities. The soil chiefly underlies extensive, flat, low-lying areas formerly inundated by glacial Great Lakes. Soil thickness ranges from 10 to 30 feet. Typically, lacustrine clay and silt are associated with low hydraulic permeability and restrict the movement of groundwater.	Michigan Geological Survey Division's publication, <i>Quaternary Geology of Southern Michigan</i> (1982)
County Soil Survey Description	According to the United States Department of Agriculture, <i>Soil Survey of Washtenaw County, Michigan</i> (1977), the soil in the area is classified as Spinks-Boyer-Wasepi association. This soil is described as "nearly level to moderately steep, well drained and somewhat poorly drained soils that have a coarse textured or moderately coarse textured subsoil and coarse textured underlying material; on outwash plains, terraces, lake plains, and deltas." Photo Sheet 34 of the soil survey, depicts the subject property within an area described as "Boyer loamy sand".	USDA Soil Survey of Washtenaw County, Michigan (1977)
Site-Specific Geology and Hydrogeology		
Soil and bedrock characteristics	No site-specific soil or bedrock information was identified.	Not applicable
Groundwater characteristics	No site-specific groundwater information was identified.	Not applicable

Based on the information presented above, AKT Peerless infers that groundwater in the vicinity of the subject property flows toward the southwest, with potential influence from the Huron River. However, local manmade structures (e.g., buildings, roads, sewer systems, and utility service lines) may influence both surface water and groundwater flow. AKT Peerless was unable to precisely document the groundwater flow direction beneath the subject property. To determine the site-specific groundwater flow direction, subsurface information would be necessary.

AKT Peerless did not identify any water supply wells or monitoring wells at the subject property. Groundwater from the area of the subject property does not serve as the primary drinking water source for properties in the City of Ypsilanti, which obtains its municipal water from the City of Detroit.

4.2 Standard Environmental Record Sources

AKT Peerless retained a third-party vendor to provide current environmental database information compiled by a variety of federal and state regulatory agencies. The purpose of obtaining this data was to evaluate potential environmental risks associated with the subject property, adjoining properties, and nearby sites that are: (1) identified on target lists, and (2) within varying distances of up to one mile from the subject property. Refer to the database report included as Appendix D for information regarding

database descriptions, search radii, and most recent dates the database information was updated by the vendor.

4.2.1 Subject Property Listings

The database report does not identify the subject property on the referenced databases.

4.2.2 Adjoining Properties

The database report does not identify any adjoining properties on the referenced databases, except for the following:

Detail Table for Northwest Adjoining Property (301 North Park Street)

Address	Name	Distance/Direction	Known/Inferred Groundwater Flow Direction:
301 North Park Street	Marino Engineering; E Teck International, Inc.	Adjoining/Northwest	Southwest
Databases			
<p><u>RCRA-Non Generator (Non-Gen)</u> Marino Engineering was identified as a small quantity generator (SQG) and a large quantity generator (LQG) of hazardous waste in 1990. No hazardous waste violations or enforcement actions associated with this adjoining property were identified within the database report.</p> <p>E. Teck International, Inc., was also identified on the RCRA-Non Gen database. No additional information was identified within the database report.</p> <p>Further information regarding these database listing(s) is presented in Sections 4.3.1.</p>			

Detail Table for Southeast Adjoining Property (206 North Grove Street)

Address	Name	Distance/Direction	Known/Inferred Groundwater Flow Direction:
206 North Grove Street	Ypsilanti Economic Development Corporation / Authority	Adjoining/Southeast	Southwest
Databases			
<p><u>Baseline Environmental Assessment (BEA)</u> This adjoining property is listed on the BEA database. A BEA was completed in 2004 and assigned BEA # 200400548JK. No additional information was provided in the database report.</p> <p><u>RCRA-Non Generator (Non-Gen)</u> This adjoining property was identified as a SQG of hazardous waste in 2001. No hazardous waste violations or enforcement actions associated with this adjoining property were identified within the database report.</p> <p><u>State Hazardous Waste Site (SHWS)</u> The adjoining property is listed on the SHWS database under Part 201. No additional information was identified within the database report.</p> <p><u>Underground Storage Tank (UST)</u> This adjoining property is identified as the location of one 500-gallon used oil UST, which was installed in January 1986 and removed in August 2001.</p> <p>Further information regarding these database listing(s) is presented in Sections 4.3.1 and 4.3.2.</p>			

Detail Table for South Adjoining Property (103 North Grove Street)

Address	Name	Distance/Direction	Known/Inferred Groundwater Flow Direction:
103 North Grove Street	Marsh Plating Corporation	Adjoining/South	Southwest
Databases			
<p><u>Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS)</u> <u>CERCLIS-No Further Remedial Action Planned (NFRAP)</u> This adjoining property is listed on the CERCLIS and CERCLIS NFPAP databases. According to the database report, the site was first discovered by the USEPA in March 1985, and a preliminary assessment was conducted in July 1985. In September 1986, the site was granted a NFRAP status.</p> <p><u>Aboveground Storage Tank (AST)</u> One AST containing liquid petroleum gas (LPG) is registered to this adjoining property. The 1,000-gallon tank was installed in 1990 and is currently in use. No releases or enforcement actions associated with this adjoining property were reported in association with the AST listing.</p> <p><u>RCRA- Large Quantity Generator (LQG)</u> This adjoining property has been identified as a LQG of hazardous waste since 1980. Several violations associated with the RCRA status of the facility were issued during MDEQ compliance inspections in 1986, 1997, 1998, 2001, 2008 and 2012. Violations identified in the database report include: Generators-General, Pre-transport – General, Universal Waste – General, Used-Oil – Generators, Generators – Records/Reporting, TSD IS – General Facility Standards, Generators – Manifest, and LDR – General . Compliance with violations issued to this facility listed above has been achieved.</p> <p><u>RCRA-Treatment, Storage and Disposal Facility (TSD)</u> This adjoining property is identified as the location of a hazardous waste treatment, storage, and disposal facility. No additional information pertaining to this status was identified within the database report.</p> <p><u>Underground Storage Tank (UST)</u> This adjoining property is identified as the location of one 12,000-gallon diesel UST, installed in May 1983 and removed in June 1996; one 2,500-gallon used oil UST, installed in May 1978 and removed in October 1989; and one 2,000-gallon gasoline UST, installed in May 1965 and removed in October 1989.</p> <p>Further information regarding these database listing(s) is presented in Sections 4.3.1 and 4.3.3.</p>			

4.2.3 Nearby Sites

AKT Peerless’ review of the referenced databases also considered the potential or likelihood of contamination from nearby sites. To evaluate which of the nearby sites identified in the database report present an environmental risk to the subject property, AKT Peerless considered the following criteria:

- Type of database on which the site is identified.
- Topographic position of the identified site relative to the subject property.
- Direction and distance of the identified site from the subject property.
- Local soil conditions in the subject property area.
- Known or inferred groundwater flow direction in the subject property area.

- Status of the respective regulatory agency-required investigation(s) of the identified site, if any.
- Surface and subsurface obstructions and diversions (e.g., buildings, roads, sewer systems, utility service lines, rivers, lakes, and ditches) located between the identified site and the subject property.

Only those nearby sites that are judged to present a potential environmental risk to the subject property are further evaluated by reviewing agency file information. Using the above criteria, and based upon a review of readily available information contained within the database report, AKT Peerless did not identify nearby sites that present a potential environmental risk to the subject property.

4.3 Regulatory Agency File and Records Review

4.3.1 MDEQ Resource Management Group (RMG)

AKT Peerless submitted a request to the MDEQ RMG to review available file information regarding waste management activities, permits, inspections and violations associated with the subject property.

AKT Peerless also reviewed the MDEQ RMG Waste Data System (WDS) for information regarding waste disposal operations at the subject property and the adjoining properties to the northwest, southeast, and south. The WDS tracks activities at facilities regulated by the Solid Waste, Scrap Tire, Hazardous Waste, and Liquid Industrial Waste programs.

Subject Property

According to the MDEQ RMG, no file information exists pertaining to the subject property.

The subject property was not listed on the MDEQ WDS database.

Adjoining Properties

The following information was identified on the MDEQ WDS for the adjoining properties to the northwest, southeast, and south.

Marino Engineering & E. Teck International Inc, 301 North Park Street (northwestern adjoining property)

By 1970, E. Teck International Inc was listed as a Liquid Industrial Waste (LIW) Generator. No records of violations or enforcement actions associated with this site were contained in the database. It should be noted that 1970 is a default date used by the MDEQ when an actual start date is not available.

Marino Engineering was identified as a SQG from 1990 to 2001. No hazardous waste violations or enforcement actions associated with this adjoining property were identified within the WDS.

In AKT Peerless' opinion, this site does not represent an environmental concern to the subject property. This opinion is based on (1) this site is not listed on any databases indicative of a release or contamination, (2) no records of any hazardous waste violations were identified in the database report or WDS database, and (3) this adjoining property is located hydraulically cross-gradient from the subject property.

Abandoned Grove Street Site, 206 North Grove Street (southeastern adjoining property)

According to the WDS, the southeastern adjoining property was listed as a SQG in 2001. No violations or enforcements were identified within the database.

A review of MDEQ RMG file information, if any exists for this adjoining property, would not likely provide additional information that would assist in determining if a REC, HREC, CREC, or de minimis condition exists at the subject property in connection with this adjoining property.

Refer to Section 4.3.3 for additional information regarding this adjoining property.

Marsh Plating Corporation, 103 North Grove Street (southern adjoining property)

According to the WDS, this facility has been identified as a LQG of hazardous waste since 1980. In 2004 and 2005, this facility was also identified as a liquid industrial waste generator (LIWG). Multiple compliance evaluation inspections and follow up inspections of this facility were completed by the MDEQ from 1986 through 2012. Violations associated with the hazardous waste/LIW programs were issued during these inspections. Specific information associated with these violations was not provided.

A review of MDEQ RMG file information, if any exists for this adjoining property, would not likely provide additional information that would assist in determining if a REC, HREC, CREC, or de minimis condition exists at the subject property in connection with this adjoining property.

Refer to Section 4.3.3 for additional information regarding this adjoining property.

4.3.2 MDEQ Remediation and Redevelopment Division (RRD)

AKT Peerless reviewed the RRD's Perfected Lien List dated July 7, 2015 to determine if environmental cleanup liens had been filed against the subject property.

AKT Peerless also referenced the MDEQ Storage Tank Information Database (SID) for information regarding the subject property.

Subject Property

According to the Perfected Lien List, the MDEQ does not have record of environmental cleanup liens filed against the subject property. Further, the subject property was not listed on the MDEQ SID.

In addition, according to the MDEQ-RRD, no files pertaining to the subject property were found.

Adjoining Properties

No additional information regarding USTs on the adjoining properties were identified on the MDEQ SID, except as described in Sections 4.2.2 and 4.3.3.

4.3.3 Michigan Department of Licensing and Regulatory Affairs (LARA)

AKT Peerless contacted LARA's Storage Tank Division (STD) to review available records regarding registered storage tanks associated with the subject property, and select adjoining properties.

Subject Property

According to a response received, LARA STD does not maintain information associated with the subject property.

Adjoining Properties

According to a response received, LARA STD does not have registered storage tank files for the adjoining properties, except for the following:

206 North Grove Street (southeastern adjoining property)

LARA provided AKT Peerless with UST registration records for the southeastern adjoining property. According to these records, a 500-gallon used oil UST was removed from the property in August 2001 as part of site redevelopment activities. The 500-gallon used oil UST was associated with the former maintenance shop and auto repair operations of the site. This adjoining property was also classified as a former petroleum distributor on the UST registration form.

In AKT Peerless' opinion, this adjoining property represents a REC to the subject property. This opinion is based on: (1) this property was identified on databases indicative of hazardous chemical use and contamination (i.e. RCRA, BEA & SHWS) and (2) this property was utilized for light industrial operations which included bulk oil storage from the mid-1950's until the mid-1970's.

Marsh Plating Corp., 103 North Grove Street (southern adjoining property)

LARA provided AKT Peerless with records for Marsh Plating Corp, the southern adjoining property. Records reviewed included a 45-day UST Removal Site Assessment Closure Report prepared by Innovative Environmental Solutions in July 1996 for the removal of a 12,000-gallon diesel UST. According to the Closure Report, no visual, olfactory or PID evidence of contamination was identified during the removal of the diesel UST. Soil verification sampling was conducted within the UST excavation and submitted for laboratory analysis of polynuclear aromatic hydrocarbons (PNAs). Laboratory analytical results confirmed that a clean closure had been achieved.

Additionally, records provided by LARA indicated that in October 1989, one 2,500-gallon used oil UST, and one 2,000-gallon gasoline UST were removed from the ground. The Michigan Fire Marshall Division was given a 30-day notification before the tanks were removed. Composite soil samples from the side wall and floor of each UST cavity were taken and submitted for laboratory analysis of benzene, toluene, ethylbenzene and xylenes, gasoline, total hydrocarbons, and/or kerosene. Based on laboratory analytical results, clean closure had been achieved.

In AKT Peerless' opinion, this adjoining property represents a REC to the subject property. This opinion is based on: (1) multiple hazardous waste violations and the former use of numerous USTs at this property were identified in the database report and/or agency file information and (2) this property has been utilized for numerous industrial purposes since at least 1916.

4.3.4 MDEQ Office of Oil, Gas and Minerals (OOGM)

AKT Peerless reviewed the MDEQ's GeoWebFace online geologic mapping program for oil and gas well records associated with the subject property; however, no records were identified.

4.3.5 MDEQ Air Quality Division (AQD)

AKT Peerless contacted the MDEQ AQD to review available records regarding environmental information and/or air permits on the subject property. A response from the MDEQ AQD indicated that no records for the subject property exist.

4.3.6 MDEQ Water Resources Division (WRD)

AKT Peerless contacted the MDEQ WRD to review available records regarding environmental information associated with the subject property. A response from the MDEQ WRD indicated that no records for the subject property exist.

4.4 Additional Environmental Record Sources

4.4.1 Local Health Department

As of the date of this report, a response has not been received from the Wayne County Health Department. If records are received after the date of this report that change the conclusions and/or recommendations of this Phase I ESA, an addendum report will be issued.

4.4.2 Local Fire Department

According to Fire Chief Max Anthouard, the City of Ypsilanti Fire Department has no records or knowledge regarding storage tanks, releases, or incident reports for the subject property.

4.4.3 Previous Environmental Reports

AKT Peerless was not provided with copies of reports that document previous investigations or assessments of the subject property, nor did AKT Peerless identify the existence of such documents during this assessment.

4.5 Historical Use Information

The objective of reviewing historical sources is to: (1) develop a history of previous uses or specific occupancies of the subject property, (2) identify those uses or specific occupancies that are likely to have led to potential environmental concerns at the subject property, and to the extent identifiable, at adjoining properties, and (3) identify obvious uses of the subject property from the present, back to the property's *obvious* first developed use, or back to 1940, whichever is earlier.

Historical Summary – Subject Property

The following table summarizes the general development and use of the subject property, as identified by AKT Peerless based on the referenced data sources:

Subject Property Historical Use Summary

Time Period	Improvements	Use	Owner / Occupant	Data Source(s)
1859 - 1916	None	Unknown	John Gilbert / unoccupied	Fire Insurance Maps Deed Records

Time Period	Improvements	Use	Owner / Occupant	Data Source(s)
1937 - early 1970's	Recreational area Walking paths Basketball court Baseball field	Recreational / Park	Boys and Girls Club	Aerial photographs City directories Municipal records Fire Insurance Maps
Early 1970's – early 1990's	Portion of the Subject Building Basketball court Baseball field	Rec-Center / Park	Boys and Girls Club	Aerial photographs City directories Municipal records Fire Insurance Maps
Early 1990's- 2010	Subject Building Baseball Field Basketball Court	Rec-Center / Park	Boys and Girls Club	Aerial photographs City directories Municipal records Fire Insurance Maps
2010-Present	Subject Building Baseball Field Basketball Court	Vacant	City of Ypsilanti / Unoccupied	Aerial photographs City directories Interviews Site reconnaissance

Historical Summary – Adjoining Properties

The adjoining properties have included residential and industrial developments since at least 1916. As further discussed in Sections 4.5.2 and 4.5.3, the following historical uses of select adjoining properties were identified:

- The southern adjoining property located at 103 North Grove Street, has been utilized for foundry, manufacturing and/or plating operations since at least 1916.
- The southern adjoining property located at 204 North Park Street, historically operated as a bulk oil and coal storage facility from at least 1927 through the mid 1970's.
- The southeastern adjoining property located at 206 North Grove Street, was utilized for light industrial operations, including oil storage beginning in the early 1950's until at least the early 1980's.
- The western adjoining property located at 223 North Park Street was utilized as the Martin Dawson Company coal storage yard from at least 1916 until at least the mid 1960's.

4.5.1 Aerial Photographs

AKT Peerless obtained aerial photographs for the subject property from EDR. AKT Peerless' observations noted during the review of these photographs are summarized in the following table. Photocopies of select aerial photographs are presented as Appendix E.

Subject Property Aerial Photography Summary

Photograph Dates	Observations (Subject Property)	Potential Environmental Concerns
1937, 1940, 1949, 1956, 1961, 1967	The subject property appears developed as recreation area with walking paths, a basketball court, and a baseball field.	None observed
1978, 1985	The subject property appears developed with a portion of the Subject Building, and the pre-existing recreation features.	None observed
1993, 2000, 2005, 2006, 2009, 2010, 2012	The second portion of the Subject Building has been added, and appears consistent with current site conditions.	None observed

AKT Peerless’ review of historical aerial photographs of the adjoining properties is summarized in the following table.

Adjoining Property Aerial Photography Summary

Photograph Dates	Potential Environmental Concerns (Adjoining Properties)
1937-2012	No obvious evidence or indications of environmental concerns were noted with respect to the adjoining properties and nearby sites during AKT Peerless’ review of the referenced aerial photographs, aside from the fact that the adjoining properties to the southeast and south appear to have been developed with light industrial buildings and/or operations beginning in the late-1930s. Refer to Section 4.5.3 for further discussion of these adjoining properties.

4.5.2 Fire Insurance Maps

AKT Peerless obtained fire insurance maps for the subject property from ERIS. AKT Peerless’ observations noted during the review of these maps are summarized in the following table. Photocopies of the referenced maps are presented in Appendix F.

Subject Property Fire Insurance Maps Observations

Map Dates	Observations (Subject Property)	Potential Environmental Concerns
1916, 1927, 1950, 1964	The subject property is depicted as undeveloped land.	None observed

AKT Peerless’ review of historical fire insurance maps of the adjoining properties is summarized in the following table:

Adjoining Properties Fire Insurance Maps Observations

Map Dates	Potential Environmental Concerns (Adjoining Properties)
1916, 1927, 1950, 1964	<p>No obvious evidence or indications of recognized environmental conditions or other potential environmental concerns were noted with respect to the adjoining properties during AKT Peerless’ review of the referenced maps, aside from the fact that the adjoining property to the south (103 N. Grove Street) was utilized for various industrial operations (including manufacturing, machine shop, and foundry operations) in the 1916 through 1964 maps. The southern adjoining property located at 204 N. Park Street was identified as a coal yard and oil company on the 1927, 1950, and 1964 maps, with numerous storage tanks noted. The adjoining property to the southeast contained light industrial operations with oil storage tanks noted in the 1950 and 1964 maps. The adjoining property to the west was noted as a coal storage yard in the 1927 through 1964 maps.</p> <p>Refer to Section 4.5.3 for further discussion of these adjoining properties.</p>

4.5.3 City Directories

City Directories from various years between 1928 through 2014 were reviewed at the Bressers Library and obtained by ERIS. The purpose of this review was to determine the past occupancy of the subject property. Directories were reviewed in approximately 5-year intervals, or as available. Information obtained from the reviewed directories is summarized in the following table:

City Directories Data

Year	Address	Listing
1928-1983	220 North Park Street	No listing
1989-2002	220 North Park Street	Boys and Girls Club
2007-2014	220 North Park Street	No listing

AKT Peerless also reviewed city directories for select adjoining properties to determine their past occupancy. No obvious or potential environmental concerns associated with historical occupants of the adjoining properties were noted, except for:

- The southern adjoining property located at 103 North Grove Street, was listed as Marsh Plating in the 1967 through 2014 directories, Reynold Chemical Production Division in the 1958 directories, Ypsilanti Machine and Tool Company in the 1948 through 1954 directories, American Radiator Company in the 1938 directories, and Ypsilanti Motor Castings Company in the 1928 directories.
- The southern adjoining property located at 204 North Park Street, was listed as Production Tooling in the 1977 through 1983 directories, Silkworth Oil Distribution Company in the 1954 through 1972 directories, and Gulf Refining Bulk Station in the 1943 through 1948 directories.

- The southeastern adjoining property located at 206 North Grove Street, was listed as Busby Freight Lines in the 1983 through 1987 directories and Ray Lidke Oil Company in the 1954 through 1977 directories.

In AKT Peerless' opinion these adjoining properties represent a REC to the subject property based on: (1) the historical industrial use of these adjoining properties, (2) the potential exists that contaminants from former and/or current industrial site use may have impacted the subsurface, and (3) the close proximity to the subject property.

4.5.4 Assessing Department Records

AKT Peerless attempted to review tax assessment records for the subject property from the City of Ypsilanti Assessing Department. However, according to the Ypsilanti Assessing Department, the property was utilized as a Boys and Girls Club and was tax exempt; therefore, no files pertaining to the subject property were found.

4.5.5 Building Department Records

AKT Peerless reviewed building records for the subject property from the City of Ypsilanti Building Department. Records consisted of various building permits (roof, electrical, code repairs, boiler, etc) issued to the subject property between the early 1990's through the late 2000's. No additional information that could indicate potential environmental concerns at the subject property was found in the records.

4.5.6 Recorded Land Title Records

Unless otherwise noted, AKT Peerless did not identify or research any recorded land title records for the subject property, except for the title and deed records provided to AKT Peerless from the City of Ypsilanti, which are included in Appendix G. No additional information that could indicate potential environmental concerns at the subject property was found in the records.

4.5.7 Other Historical Information

AKT Peerless did not identify any other relevant historical information for the subject property.

5.0 Interviews

5.1 Interview with Subject Property Owner

AKT Peerless interviewed Beth Ernat, Director of Economic Development for the City of Ypsilanti regarding knowledge of the subject property and provided an owner questionnaire. No information was reported that would be considered material to identifying recognized environmental conditions in connection with the subject property.

5.2 Interview with Key Site Manager

A key site manager was not interviewed during the course of this assessment.

5.3 Interview with Subject Property Occupant(s)

The subject property consists of an unoccupied Boys and Girls Club recreation center building; therefore, AKT Peerless did not conduct interviews with occupants during the course of this assessment.

5.4 Interview(s) with Others

AKT Peerless did not conduct interviews with others during this assessment because the historical use of the subject property has been identified. Further, interviews with the occupants of adjoining and nearby properties were not conducted because the subject property is not considered abandoned, as referenced by ASTM.

6.0 Subject Property Reconnaissance

6.1 Methodology and Limiting Conditions

The subject property reconnaissance consisted of visual and physical observations of the subject property. AKT Peerless visually and/or physically observed the periphery of the subject property. In addition, AKT Peerless observed the subject property from all adjacent public thoroughfares. AKT Peerless viewed the subject property following a grid pattern designed to cover representative portions of the unimproved areas.

Karen Vorce of AKT Peerless conducted the subject property reconnaissance on October 1, 2015. AKT Peerless encountered the following project specific facts or conditions that limited our ability to access the subject property:

- Visual observations of the subject property's exterior were limited by the presence of thick vegetation near the baseball dug-outs and along the southern property boundary near the rail road tracks.

6.2 General Subject Property Setting and Operations

The subject property consists of vacant Boys and Girls Club Recreation Center that is not currently used for any significant or obvious purpose. The property has been unoccupied since November 2010. The exterior of the subject property consists of a gravel driveway and parking areas, a basketball court, two baseball dugouts with associated baseball field, and vegetated and landscaped areas.

6.3 Observations

6.3.1 Hazardous Substances and Petroleum Products

AKT Peerless did not observe hazardous substances or petroleum products at the subject property except for the following:

Hazardous Substances and Petroleum Products

Use / Location	Material	Quantity	Observations
Property maintenance / subject building garage	Paints, oil, gasoline, caulks, cleaning supplies	1-quart to 5-gallon containers	The paints and solvents are stored within manufactures packaging on the floor. No evidence of a release was observed except for some spilled paint on the concrete floor within the garage.
Property maintenance / maintenance/boiler room	Paints, oil, caulks, cleaning supplies, floor strippers	1-quart to 5-gallon containers	The materials are stored within manufactures packaging on shelves. No evidence of a release was observed.
Property maintenance / offices located above the garage	Cleaning supplies, bug killer, spray paint	1-quart to 1-gallon containers	No evidence of a release was observed.

Refer to Section 6.3.4 for further discussion of these hazardous substances.

6.3.2 Hazardous and Non-Hazardous Waste

AKT Peerless did not observe hazardous or non-hazardous waste at the subject property with the exception of some damaged building materials throughout the subject building. The identified waste is located throughout the building.

6.3.3 Storage Tanks

AKT Peerless did not observe evidence of current or former UST systems (e.g., vent pipes, fill ports, dispensing pumps, patched pavement, etc.) at the subject property.

AKT Peerless did not observe evidence of current or former AST systems (e.g., stands, secondary containments, etc.) at the subject property.

6.3.4 Unidentified Substances/Containers

AKT Peerless did not observe evidence of unidentified substances or other suspect containers on the subject property, except for several dozen containers ranging in size from one to five gallons located within the boiler room, offices above the garage, and within the garage. These containers consisted of old paint, cleaning supplies, gasoline, oil, and general maintenance materials. These containers should be properly characterized and disposed prior to renovation or demolition of the subject building.

6.3.5 Potential Polychlorinated Biphenyl (PCB) Containing Electrical Equipment

AKT Peerless inspected the subject property for the presence of liquid-cooled electrical units such as transformers and large capacitors. Such units are notable since they may be potential sources of PCBs. AKT Peerless did not observe suspect PCB-containing electrical equipment at the subject property, except for the following:

Potential PCB-Containing Electrical Equipment

Source Description	Source Location	Responsibility	Observations
One pad-mounted transformer	Northeastern side of the subject building exterior	Detroit Edison	No evidence of a release

AKT Peerless observed one pad-mounted transformer on the northeastern side of the subject building exterior. The transformer is the responsibility of Detroit Edison. In the event of a release incident, Detroit Edison will repair the damaged or leaking electrical unit(s), and return the quality of the affected soil and groundwater, if any, to its pre-release condition. AKT Peerless did not observe evidence or indication of oil stains, leaks, or spills near the transformer.

6.3.6 Interior Staining / Corrosion

AKT Peerless did not observe interior staining or corrosion within the subject building, except for some spilled paint on the concrete floor of the subject building garage.

6.3.7 Drains and Sumps

AKT Peerless did not observe drains or sumps in the subject building, except for the following:

Subject Building: Drains and Sumps

Description	Location	Observed Environmental Concerns
Floor drains	Bathrooms, former kitchen area, boiler room	None

6.3.8 Discharge Features

Storm water that falls upon the subject property appears to evaporate, percolate directly into the ground or discharge to storm water drains located within the adjoining road right-of-ways.

6.3.9 Pits, Ponds, and Lagoons

AKT Peerless did not observe pits, ponds, or lagoons in connection with waste treatment or waste disposal at the subject property.

6.3.10 Solid Waste Dumping / Landfilling

AKT Peerless did not observe evidence of solid waste dumping or landfilling at the subject property, except for the following:

Solid Waste Dumping / Landfilling

Description	Location	Observed Environmental Concerns
Fill material/ concrete debris	Southern portion of the subject property within the thick vegetation along the property boundary	Fill material from an unknown source

6.3.11 Stained Soil, Stressed Vegetation, Stained Pavement

AKT Peerless did not observe any evidence of stained soil, stressed vegetation, or stained pavement at the subject property.

6.3.12 Well and Septic Systems

AKT Peerless did not observe physical evidence or indication of wells or septic systems at the subject property.

6.3.13 Other Observations

AKT Peerless did not observe evidence of other potential environmental concerns at the subject property.

6.3.14 Adjoining Properties

Based on AKT Peerless' visual observations, the current uses of the adjoining properties do not appear to pose an environmental concern to the subject property, except for the two southern adjoining properties that contain industrial and/or light industrial buildings. As discussed in Section 4.5.3, these southern adjoining properties present an environmental concern to the subject property.

6.4 Non-ASTM Scope Considerations

AKT Peerless did not evaluate any other potential environmental conditions (i.e., further areas of possible business/environmental concern and/or liability) that are outside the scope of ASTM Practice E 1527. Examples of such potential environmental conditions that were beyond the scope of this Phase I ESA include: asbestos containing materials (ACMs), cultural and historic resources, ecological resources, endangered species, health and safety, high-voltage power lines, indoor air quality, industrial hygiene, lead-based paints (LBPs), lead in drinking water, moisture intrusion/suspect mold growth, noise pollution, radon, regulatory compliance/non-compliance and/or wetlands.

Users of this document who wish to obtain an evaluation of the subject property relative to any of the aforementioned non-ASTM issues may contact AKT Peerless to provide these services.

7.0 Findings, Opinions, and Conclusions

AKT Peerless has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527 of 220 North Park Street, Ypsilanti, Washtenaw County, Michigan, the subject property. Any exceptions to, or deletions from, this practice are described in Section 8.0 of this report. AKT Peerless' findings and opinions with respect to potential RECs are presented throughout this report, including discussion and analysis of potential RECs that, after further consideration and research, were

not determined to be RECs, HRECs, or CRECs. Such findings and opinions are discussed in the appropriate sections of this report.

7.1 Recognized Environmental Conditions

This assessment has revealed no evidence of known recognized environmental conditions in connection with the subject property, except for the following:

REC 1 - During AKT Peerless Site Reconnaissance, fill material (soil and concrete) was observed within the thick vegetation located along the southern property boundary. The nature and extent of this fill material is unknown. Therefore, further investigation and/or assessment is warranted in order to evaluate the nature, extent, magnitude, and materiality of REC 1.

REC 2 - A southeastern adjoining property (206 N. Grove Street) was identified as an oil distributor which utilized a bulk oil storage yard from the mid 1950's until the late 1970's. This site was also listed as a State Hazardous Waste Site (SHWS) and was identified on the Baseline Environmental Assessment (BEA) database. In AKT Peerless' opinion, the past use of this adjoining property and identification on the SHWS and BEA databases represents a REC. Therefore, further investigation and/or assessment may be warranted in order to evaluate if potential contaminants have migrated to the subject property.

REC 3 - A southern adjoining property (204 N. Park Street) was utilized as a coal storage yard and bulk oil and gasoline storage facility in the 1920's until the early 1970's. No information regarding any current or former USTs, ASTs, installation and removal dates, business practices, or other environmental data was identified. In AKT Peerless' opinion, the past use of this adjoining property represents a REC. Therefore, further investigation and/or assessment may be warranted in order to evaluate if potential contaminants have migrated to the subject property.

REC 4 - A southern adjoining property (103 N. Park Street) has been utilized for various industrial operations (including manufacturing, machine shop, foundry and plating operations) from at least 1916 until the present day. This site was also listed on the Resource Conservation and Recovery Act and Comprehensive Environmental Response, Compensation, and Liability Information System databases with multiple hazardous waste violations identified. In AKT Peerless' opinion, the current and past use of this adjoining property represents a REC. Therefore, further investigation and/or assessment may be warranted in order to evaluate if potential contaminants have migrated to the subject property.

REC 5 - A western adjoining property (223 N. Park Street) historically operated as a coal storage yard from at least 1916 until the mid-1960's. In AKT Peerless' opinion, the past use of the western adjoining property as a coal storage yard represents a REC. Therefore, further investigation and/or assessment may be warranted in order to evaluate if potential contaminants have migrated to the subject property.

7.2 Controlled Recognized Environmental Conditions

This assessment has revealed no evidence of known CRECs in connection with the subject property.

7.3 Historical Recognized Environmental Conditions

This assessment has revealed no evidence of known HRECs in connection with the subject property.

7.4 De Minimis Conditions

During the course of Phase I ESAs, AKT Peerless often encounters conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. These conditions are not considered RECs, HRECs, or CRECs, but are defined by ASTM Standard E1527 as *de minimis* conditions. In the interest of brevity, AKT Peerless did not develop a full list of *de minimis* conditions in this section, rather evaluated and identified these conditions in the appropriate sections of this report.

7.5 Areas of Potential Environmental Concern

AKT Peerless did not identify other potential environmental concerns (PECs) in connection with the subject property during the course of this Phase I ESA, except for the following:

- Municipal water and sanitary sewer services have been available to the subject property since at least 1916. However, an exact connection date to municipal water and sewage disposal could not be determined. The possibility exists that a well and/or septic system was used at the subject property prior to the connection of municipal water and sanitary sewer. In AKT Peerless' opinion, if any septic systems or drinking water wells are identified or encountered during future development activities, they should be decommissioned, removed, and/or disposed in accordance with applicable federal, state, and local regulations.
- There is a possibility that heating oil was historically used by occupants of the subject property prior to the connection to natural gas. In AKT Peerless' opinion, if any heating oil containers are identified or encountered during future development activities, they should be decommissioned, removed, and/or disposed in accordance with applicable federal, state, and local regulations. Additional action beyond that recommended above may be warranted if evidence of actual or historical heating oil USTs is identified at the subject property in the future.

8.0 Deviations

AKT Peerless did not deviate from ASTM Practice E 1527 when performing this Phase I ESA (i.e., no components of that practice were deleted, and no additions to it were made).

9.0 Data Gaps

AKT Peerless did not identify or encounter any instances of significant data gaps during the course of this ESA.

10.0 Project Resources and References

AKT Peerless referred to the following resources between September 24, 2015, and October 5, 2015 to complete its ESA:

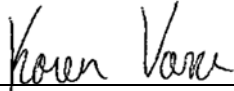
- USEPA
- United States Geological Survey (USGS)
- United States Department of Agriculture (USDA) Soil Conservation Service
- Michigan Department of Environmental Quality (MDEQ)

- Washtenaw County Health Department
- Ypsilanti Government Sources (e.g., assessing, building, fire, engineering departments, etc.)
- Environmental Data Resources (EDR)
- Environmental Risk Information Service (ERIS)
- Interviews and Questionnaire Responses

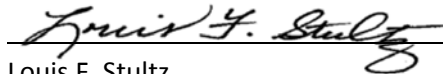
Other individuals and resources are cited in the appropriate sections of this report.

11.0 Signatures of Environmental Professionals

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



Karen Vorce
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Louis F. Stultz
Group Leader
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stultzl@aktpeerless.com

Qualifications

Karen J. Vorce

Environmental Consultant, E.P.

Ms. Vorce has over five years of professional consulting experience focusing on environmental due diligence, underground storage tank management, and remediation implementation.

EDUCATION

BS: Geology, 2010

Wayne State University, Detroit, MI

PROFESSIONAL EXPERIENCE

Environmental Consultant

AKT Peerless

Staff Scientist

Cardno ATC

Environmental Technician

ASTI Environmental

CERTIFICATIONS

Hazardous Waste Operations Training

OSHA 29 CFR 1910.120 – 40-Hour

ASTM Risk-Based Corrective Action Training Applied at Petroleum Release Sites

American Red Cross First Aid/CPR Training

AREAS OF EXPERTISE

- Part 201 environmental due diligence, including Phase I Environmental Site assessments (ESAs), Phase II ESAs, Baseline Environmental Assessments, and Documentation of Due Care Compliance.
- Part 213 Leaking Underground Storage Tank (LUST) Site Investigations and reporting activities.
- Perform field operations, such as, soil and groundwater sampling, monitoring well installation, UST removal, and remediation system operation and maintenance.
- Conducting soil gas survey investigations.
- Liaison with regulatory agencies.

SUMMARY OF SELECTED PROJECTS

Served as a Staff Geologist on multiple LUST sites throughout Michigan, completing MDEQ required investigation, reports, corrective actions, and closures.

- Supervised LUST closure activities at sites in Michigan in accordance with state regulations. Field activities included contractor oversight, soil and groundwater sample collection, monitoring well installations, remediation system operation and maintenance, analysis of laboratory results, and report preparation for submittal to state agencies.

Performed multiple Phase I ESAs (including site reconnaissance, regulatory and historical records review, and report writing) for industrial, commercial, and residential sites throughout the state of Michigan and Ohio.

Provided oversight of a Due Care Plan involving the excavation of impacted soils and the installation of a vapor mitigation system at an apartment complex in Detroit, Michigan.

Completed NEPA Reviews in accordance with Michigan Department of Transportation (MDOT), MSHDA, HUD, and/or United States General Services Administration (GSA). As part of these NEPA reviews, Section 106 Applications were submitted to the State Historic Preservation Offices (SHPOs). Additionally, some projects required the completion of the 8-Step Process for Floodplain and Wetland development activities.

Provided environmental consulting for the Orleans Landing Redevelopment project in Detroit Michigan. These services included UST removal and closure, field oversight and verification sampling of PCB impacted soil, soil disposal tracking, and sub-slab vapor barrier installation and testing.

Performed and managed Phase II subsurface investigations including scope development, coordination of soil boring and monitoring well installation, sample collection, laboratory data interpretation, and report completion.

Served as a member of the shoreline clean-up assessment team that responded to the Enbridge pipeline oil spill on the Kalamazoo River in August 2010.

Coordinated and executed access agreements and right-of-way permits with property owners and local governing entities for the installation of soil borings and/or monitoring wells on behalf of multiple national retail petroleum clients.

Conducted hazardous materials surveys of abandoned residential homes and public schools.

Mr. Stultz brings 19 years of professional experience in environmental consulting services. His expertise is in environmental due diligence, remedial investigations, and remediation systems.



Louis F. Stultz

Group Leader

EDUCATION

BS: Geology, 1994
Eastern Michigan University

PROFESSIONAL EXPERIENCE

Group Leader
Senior Project Manager
AKT Peerless

Senior Project Manager
Canopus Environmental Group, Inc.

Project Manager
Atwell-Hicks, Inc.

Project Geologist
Snell Environmental Group, Inc.

Geologist
Aqua-Terra, Inc.

CERTIFICATIONS

OSHA
40 Hour Hazwoper Class and subsequent 8-hour refreshers

Asbestos Inspector
(Accreditation #A 14344) and subsequent 4-hour refreshers

Risk Based Corrective Action
Petroleum Sites
(MDEQ - RBCA Training)

Assessment/Remediation of Petroleum
Hydrocarbons
(Training - Private Contractor)

SARA Title III; Tier Two Reporting/Training

AREA OF EXPERTISE

- Part 201 Environmental Due Diligence, including Phase I & II ESAs, and BEA/DCPs
- Part 213, Leaking Underground Storage Tank guidelines, removal and reporting
- Report writing under P.A. 451, Parts 201 and 213
- Brownfield Consulting Services
- Developing standard procedural guidelines, including work plans, USEPA QAPP, HASP & SAP documents
- Asbestos building inspections
- Environmental building assessments (Hazardous Materials Surveys) conducted in preparation of intended demolition activities prior to site redevelopment
- Conducting environmental compliance audits, preparing SPCC and SWPP plans

SUMMARY OF SELECTED PROJECTS

Phase I Environmental Site Assessments

- Project Manager for 500 Phase I ESAs since November of 1998.
- Personally completed over 175 Phase I ESAs since 1994.
- Multi-Site Phase I ESAs – Detroit, Michigan. Site manager for the completion of 35 Phase I ESAs (potential casino location) and 39 Phase I ESAs (professional stadium complex) in accordance with ASTM and City of Detroit guidelines. These projects were under extreme time constraints and were completed on schedule.

Leaking Underground Storage Tank Sites

- Fort Wayne Military Reservation, Detroit, Michigan: U. S. Army Corps of Engineers
- Michigan State Police Posts: Michigan Department of Management & Budget
- Michigan Department of Military Affairs, including; Detroit Artillery Armory, Oak Park; Detroit Light Guard Armory, Detroit; Midland Armory, Midland, and the Monroe Armory, Monroe
- Standard Federal Bank branches, Southeast Michigan
- Multiple current and former gas station sites throughout Michigan
- Amoco fuel storage terminal, Bay City, Michigan
- Amoco bulk fuel storage facility, Coldwater, Michigan
- Bulk fuel storage facility, Romulus, Michigan
- Multiple auto dealerships located throughout Southeast Michigan

Phase II Environmental Site Assessments/Subsurface Investigations : Baseline Environmental Assessments & Due Care Plan Preparation

- Independent bulk fuel storage facilities throughout Michigan
- Numerous industrial manufacturing facilities throughout Michigan
- Numerous commercial properties throughout Michigan
- Warehouse distribution facilities throughout Michigan
- Farmland/residential development sites throughout Michigan
- Managed and/or conducted all project activities, including the advancement of Geoprobe and hollow-stem auger borings, soil verification sampling, laboratory analysis, soil disposal, well installation & abandonment, summary/closure reporting, Phase II ESA/SI and BEA/Due Care Plan preparation, and all client/regulatory contacts and requirements.

Remedial Investigations

- Revere, Copper & Brass (MDEQ “Level of Effort” Contract) – Detroit, Michigan.
- Lear Siegler (MDEQ “Level of Effort” Contract) – Detroit, Michigan
- Anaconda Brass (MDEQ “Level of Effort” Contract) – Detroit, Michigan
- Lawton Street (MDEQ “Level of Effort” Contract) – Detroit, Michigan
- Supervised field activities during each remedial investigation, including the collection and submittal of soil, sludge, groundwater and concrete samples throughout each industrial complex.
- Supervised the installation of monitoring wells, and the collection and submittal of all surface water and ground water samples during quarterly sampling events. Conducted monitoring well slug tests. Assisted in the development of the RI/RAP Reports.
- Former NIKE Missile Battery, Southfield, Michigan: U. S. Army Corps of Engineers.
- Performed environmental oversight during demolition activities and supervised the removal of accumulated groundwater within the missile silos.

Responsibilities include, directing brownfield consulting services and/or providing project management for a number of brownfield redevelopment projects benefiting both private developers and municipalities.

Services include:

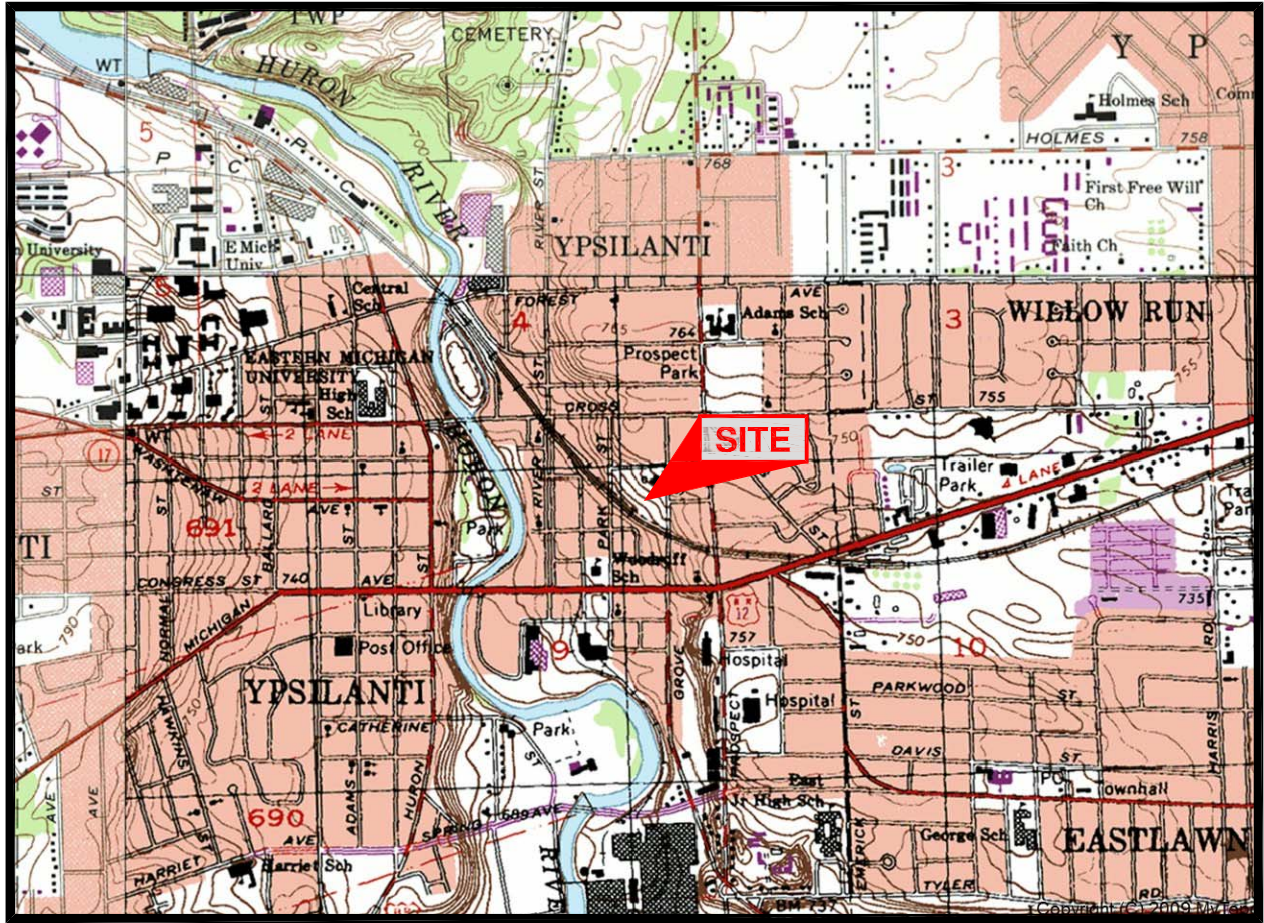
- Writing Brownfield Plans and Act 381 Work Plans (TIF Reimbursement)
- MBT Credit Applications
- Brownfield Redevelopment Grants & Loans (CMI)
- USEPA Revolving Loan Fund/Grants and Assessment/Cleanup Grants.

Brownfield projects, consulting and/or business development services were conducted through the following Brownfield Redevelopment Authorities (BRAs):

Ann Arbor (formally independent, currently part of WCBRA), Auburn Hills, Battle Creek, Detroit, Genesee County (Land Bank Authority), Howell, Kalamazoo, Lansing, Lincoln Park, Monroe, Trenton, Vassar Township, Washtenaw County (Saline, Chelsea, and Dexter) and Ypsilanti (formally independent, currently part of WCBRA).

Figures

YPSILANTI EAST QUADRANGLE
 MICHIGAN - WASHTENAW COUNTY
 7.5 MINUTE SERIES (TOPOGRAPHIC)



T.3 S.-R.7 E.

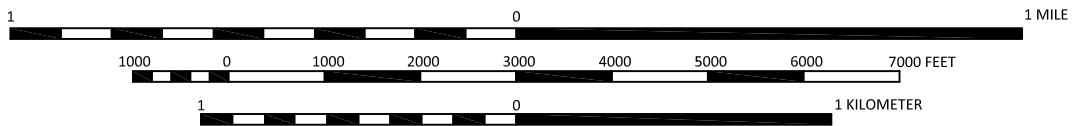


IMAGE TAKEN FROM 1996 U.S.G.S. TOPOGRAPHIC MAP

MICHIGAN
 QUADRANGLE LOCATION



ILLINOIS MICHIGAN OHIO GEORGIA
 www.aktpeerless.com

TOPOGRAPHIC LOCATION MAP

220 N. PARK STREET
 YPSILANTI, MICHIGAN
 PROJECT NUMBER : 10627F-1-17

DRAWN BY: ARR
 DATE: 10/06/2015

FIGURE 1



SINGLE-FAMILY RESIDENCE
301 N. PARK STREET

SINGLE-FAMILY RESIDENCE 302 NORTH PARK STREET
SINGLE-FAMILY RESIDENCE 313 HIGH STREET
SINGLE-FAMILY RESIDENCE 315 HIGH STREET

HIGH STREET

FORMER COAL STORAGE AREA
223 N. PARK STREET

N. PARK STREET

CONCRETE SIDEWALK

DUGOUT

BASEBALL FIELD

DUGOUT

GRASS

SINGLE-FAMILY RESIDENCE
227 N. GROVE STREET

SUBJECT BUILDING
(FORMER BOYS & GIRLS CLUB RECREATION CENTER)

ASPHALT PARKING AREA

SINGLE-FAMILY RESIDENCE
224 N. GROVE STREET

SINGLE-FAMILY RESIDENCE
220 N. GROVE STREET

SINGLE-FAMILY RESIDENCE
216 N. GROVE STREET

N. GROVE STREET

SINGLE-FAMILY RESIDENCE
215 N. PARK STREET

SINGLE-FAMILY RESIDENCE
213 N. PARK STREET

GRAVEL DRIVE

PAD-MOUNTED TRANSFORMER

BASKETBALL COURT

GRASS

LOCUST STREET

SINGLE-FAMILY RESIDENCE
410 LOCUST STREET

SINGLE-FAMILY RESIDENCE
214 N. GROVE STREET

SINGLE-FAMILY RESIDENCE
212 N. GROVE STREET

SINGLE-FAMILY RESIDENCE
208 N. GROVE STREET

HISTORICAL BULK OIL STORAGE FACILITY
204 N. PARK STREET

FILL MATERIAL WITHIN VEGETATION

VACANT LOT
(FORMER LIGHT INDUSTRIAL)
206 N. GROVE STREET

NORTH STREET

MARSH PLATING
103 N. GROVE STREET
(FORMER FOUNDRY & MANUFACTURING)

LEGEND
- - - - - = PROPERTY LINE



ILLINOIS MICHIGAN OHIO GEORGIA
www.aktpeerless.com

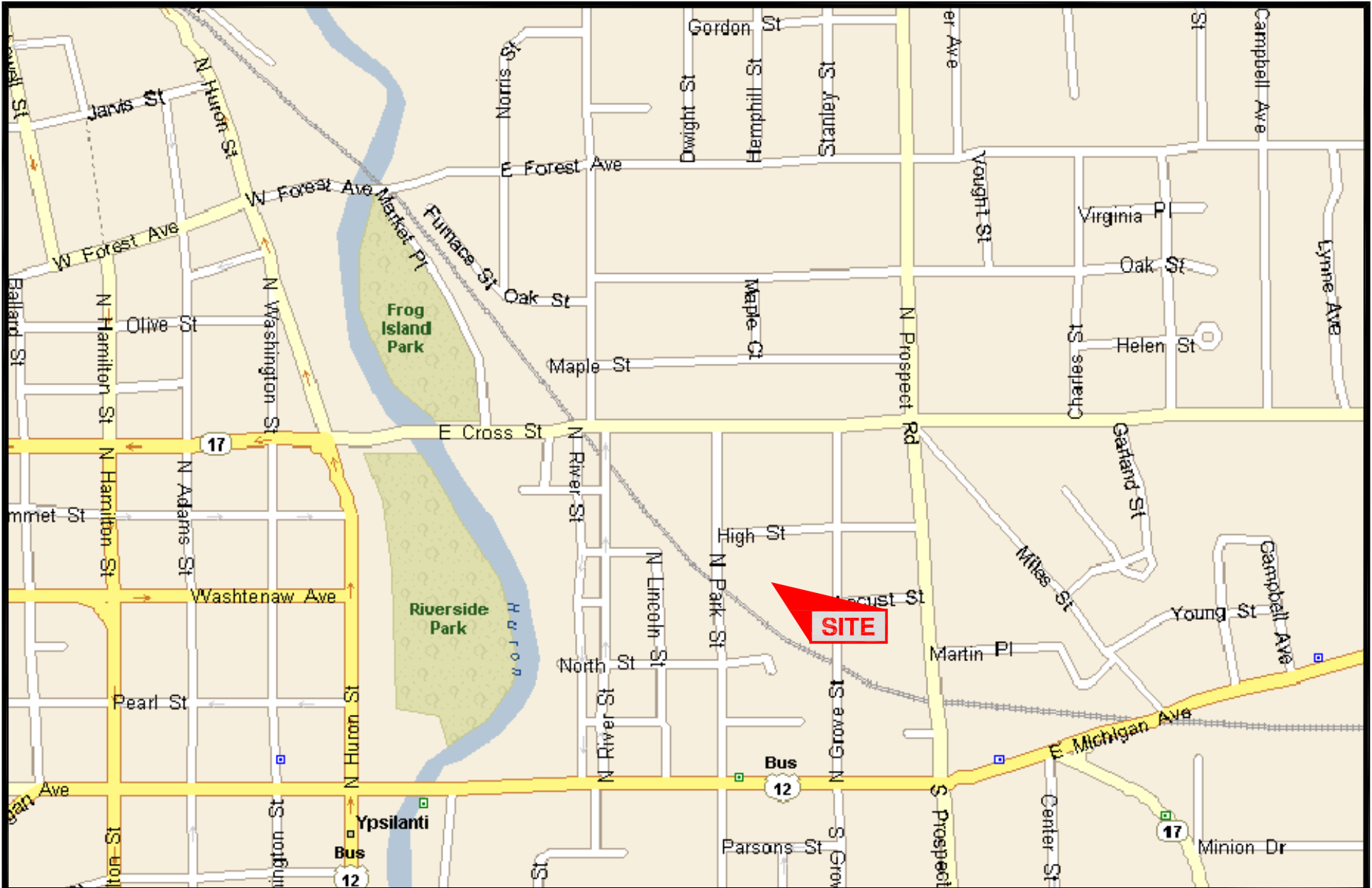
SUBJECT PROPERTY MAP

220 N. PARK STREET
YPSILANTI, MICHIGAN
PROJECT NUMBER: 10627F-1-17

DRAWN BY: ARR
DATE: 10/06/2015

0 60 120
SCALE: 1" = 120'

FIGURE 2



AKT PEERLESS

ILLINOIS MICHIGAN OHIO GEORGIA
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SUBJECT PROPERTY LOCATION MAP

220 N. PARK STREET
YPSILANTI, MICHIGAN
PROJECT NUMBER : 10627F-1-17

LEGEND



DRAWN BY: ARR
DATE: 10/06/2015

FIGURE 3

Appendix A
General Limitations and Exceptions

General Limitations and Exceptions

Subject to the proposal, scope-of-services, and the related terms and conditions referenced in Section 1.0 of this Phase I ESA, AKT Peerless accepts responsibility for the competent performance of its duties in executing the assignment and preparing reports in accordance with the normal standards of the profession, but disclaims any responsibility for consequential damages.

Although AKT Peerless believes that the findings, opinions, and recommendations contained herein are reliable and appropriate, AKT Peerless cannot warrant or guarantee that the information provided is exhaustive, or that the information obtained from any data sources is complete or accurate.

Along with the inherent limitations set forth in various sections of ASTM Standard Practice E 1527-13 (ASTM Practice E 1527), the accuracy and completeness of this report may be limited by the following facts or conditions:

- Due to the poor scale of the historical aerial photographs, the presence or absence of small features (e.g., individual drums, fuel dispensers) could not be discerned reliably.
- The poor resolution and/or illegibility of fire insurance map documentation provided to AKT Peerless may have limited accurate interpretation of the historical uses of the subject and adjoining properties.
- AKT Peerless made reasonable efforts to determine if USTs or related equipment (collectively referred to as UST systems) are or have been present at the subject property. AKT Peerless defines reasonable efforts as obtaining and evaluating information from visual observations of unobstructed areas and from the secondary sources cited in this report. AKT Peerless recognizes, and suggests users of this assessment acknowledge, that the accuracy of our conclusions relative to the on-site presence or use of UST systems may be directly affected by the presence of physical obstructions at the time of the reconnaissance, or affected by our receipt and evaluation of incorrect information.
- AKT Peerless' evaluation of soil and groundwater features at and near the subject property was based only on published maps and other readily available information. AKT Peerless used this information to assess soil types and groundwater flow directions to determine if conditions at any nearby sites present an environmental threat to the subject property.
- Unless specifically noted otherwise, invasive investigation of any kind has not been performed during this Phase I ESA, nor has observation under floors, above ceilings, behind walls, within the surface and subsurface soil, within groundwater, within confined spaces, roof tops, or inaccessible areas been performed.
- AKT Peerless did not conduct sampling or analysis of air, soil, groundwater, soil gas, surface water, or building materials as part of this Phase I ESA, unless specifically noted otherwise.
- This Phase I ESA did not include a physical inspection of the adjoining properties, which AKT Peerless observed from the subject property and from readily accessible public rights-of-way.
- Client understands that in the event AKT Peerless determines a regulatory agency file review is necessary for the subject, adjoining, and nearby properties, and such files are not reasonably ascertainable as defined under ASTM Practice E 1527, that at an additional cost, the Client may elect to retain AKT Peerless for additional tasks to attempt to secure such regulatory agency files or seek information from alternative sources.
- Client understands that a *User* seeking to qualify for an LLP to CERCLA liability has specific obligations for completing a successful application of this Phase I ESA. AKT Peerless' scope of

work does not include an evaluation or completion of these specific user obligations under ASTM Practice E 1527.

- AKT Peerless' scope of services did not include conducting a review of property title documentation. AKT Peerless requested property title documentation and environmental cleanup liens from the Client, but was not provided this information, unless specifically noted otherwise.
- Unless specifically noted, this assessment did not include a review or audit of operational environmental compliance issues, or of any environmental management systems, that may be associated with the subject property. Furthermore, this Phase I ESA does not address requirements of any state or local laws or of any federal laws other than the all appropriate inquiry provisions of the LLPs. Users are cautioned that federal, state, and local laws may impose environmental assessment obligations that are beyond the scope of this Phase I ESA. Users should also be aware that there are likely to be other legal obligations.
- Unless specifically noted, this Phase I ESA did not include any investigation or evaluation of issues not specifically related to petroleum products or hazardous substances as defined in CERCLA (i.e., other areas of potential business environmental risk such as radon, lead in drinking water, etc.).
- The information and opinions contained in the report are given in light of this assignment. The report must be reviewed and relied upon only in conjunction with the terms and conditions expressly agreed-upon by the parties and as limited therein.
- Although AKT Peerless believes the results contained in herein are reliable, AKT Peerless cannot warrant or guarantee that the information provided is exhaustive, or that the information provided by the Client, individuals, regulatory agency representatives, environmental database vendors, third parties, or the secondary information sources cited in this report is complete or accurate.
- AKT Peerless is not in a position to provide an opinion regarding the Fair Market Value of the subject property. Therefore, a comparison of the purchase price of the subject property to other similar real estate transactions was not conducted during this assessment.
- Nothing in this report constitutes a legal opinion or legal advice. Furthermore, AKT Peerless' Phase I ESA is not intended to provide legal advice or guidance to qualify for Landowner Liability Protections (LLPs) to CERCLA liability. AKT Peerless recommends Client seek legal counsel and advice to evaluate and determine the requirements to qualify for an LLP to CERCLA liability.
- AKT Peerless relied upon specific or common knowledge of the Client, or information provided to the Client, to identify environmental liens, institutional controls, activity use limitations, or property valuation issues. As possible within the time frame and cost of this project, AKT Peerless looked for any obvious environmental information regarding these issues made readily available during the course of this ESA.
- Environmental conditions and regulations are subject to constant change and reinterpretation. One should not assume that any on-site conditions and/or regulatory statutes or rules will remain constant in the future, after AKT Peerless has completed the scope of work for this project. Furthermore, because of the facts stated in this report are subject to professional interpretation, differing conclusions could be reached by other professionals.
- The information and opinions presented in this report are for the exclusive use of the Client. No distribution to or reliance by other parties may occur without the express written permission of AKT Peerless. AKT Peerless will not distribute this report without written consent from the Client, or as required by law or by a Court order.

- Any third parties to whom the right to rely on the contents of this report have been granted by AKT Peerless, which is explicitly required prior to any third-party release, expressly agrees to be bound by the original terms and conditions entered into by AKT Peerless and the Client.
- Any reports, field data, field notes, laboratory testing, calculations, estimates or other documents prepared by or relied upon by AKT Peerless are the property of AKT Peerless. If any of these documents are released or obtained by a party other than the client, AKT Peerless may not discuss the project with that party unless the original contracted client notifies AKT Peerless of the same and AKT Peerless is authorized to disclose the information and to discuss the project with others. AKT Peerless further states that it disclaims any duty of any kind or nature to any person or entity other than the client in preparing this report, except as otherwise agreed with the Client.

Appendix B
Property Description and Parcel Map

General Property Information

City of Ypsilanti

[\[Back to Non-Printer Friendly Version\]](#) [\[Send To Printer\]](#)

Parcel: 11-11-09-111-004 **Unit:** CITY OF YPSILANTI

Property Address	[collapse]
220 N PARK ST YPSILANTI, MI 48198	

Owner Information	[collapse]
CITY OF YPSILANTI 1 SOUTH HURON YPSILANTI, MI 48198	Unit: 11

Taxpayer Information	[collapse]
SEE OWNER INFORMATION	

General Information for Tax Year 2015				[collapse]
Property Class:	701 - EXEMPT	Assessed Value:	\$0	
School District:	81020 - YPSILANTI SCHOOLS	Taxable Value:	\$0	
State Equalized Value:	\$0	Map #	K-2 9-1 (B)	
User Number Indx:		Date of Last Name Chg:	N/A	
		Date Filed:		
Historical District:	N/A	Notes:	N/A	
		Census Block Group:	N/A	

Principal Residence Exemption	June 1st	Final
2016	0.0000 %	-
2015	0.0000 %	0.0000 %

Previous Year Info	MBOR Assessed	Final S.E.V.	Final Taxable
2014	\$0	\$0	\$0
2013	\$0	\$0	\$0

Land Information				[collapse]
	Frontage		Depth	
Lot 1:	0.00 Ft.		0.00 Ft.	
Lot 2:	0.00 Ft.		0.00 Ft.	
Lot 3:	0.00 Ft.		0.00 Ft.	
Total Frontage:	0.00 Ft.	Average Depth:	0.00 Ft.	

Total Acreage:	4.46		
Zoning Code:	R-4		
Total Estimated Land Value:	\$0	Mortgage Code:	N/A
Land Improvements:	N/A	Lot Dimensions/Comments:	N/A
Renaissance Zone:	N/A		

**Renaissance Zone Expiration
Date:**

Legal Information for 11-11-09-111-004

[collapse]

OWNER REQUEST YP CITY 11E-29A-1 LOT 60 GILBERT'S ADDITION, EXC BEG AT NE COR LOT 60, TH S 00-40-00 W 175.00 FT, TH S 89-50-50 W 147.63 FT, TH N 46-18-30 W 83.72 FT, TH 89-50-50 W 82.16 FT, TH N 00-40-00 E 117.00 FT, TH N 89-50-50 E 291.00 FT TO THE POB, ALSO BEG AT ELY ROW LN OF PARK ST AT SW COR LOT 60 GILBERT'S ADDITION TO CITY OF YPSI, TH 669.09 FT ALNG ARC OF CURV-LEF-RAD 1945.58 FT - CH S 52-50-00 E 656.98 FT, NLY ALNG ROW 60.30 FT TO THE POB. PT OF NE 1/4 SEC 9, T3S-R7E. 0.63 AC, PT OF LOT 60 GILBERT'S ADDITION. 221 N. GROVE* COMBINED ON 07/28/2014 FROM 11-11-09-111-001, 11-11-09-111-003

Land Divison Act Information

[collapse]

Date of Last Split/Combine:	01/30/2015	Number of Splits Left:	0
Date Form Filed:		Unallocated Div.s of Parent:	0
Date Created:	01/30/2015	Unallocated Div.s Transferred:	0
Acreage of Parent:	4.46	Rights Were Transferred?	YES
Split Number:	16	Courtesy Split?	NO
		Parent Parcel:	11-11-09-111-001

Sales Information

0 sale record(s) found.

Sale Date	Sale Price	Grantor	Grantee	Terms Of Sale	Liber/Page
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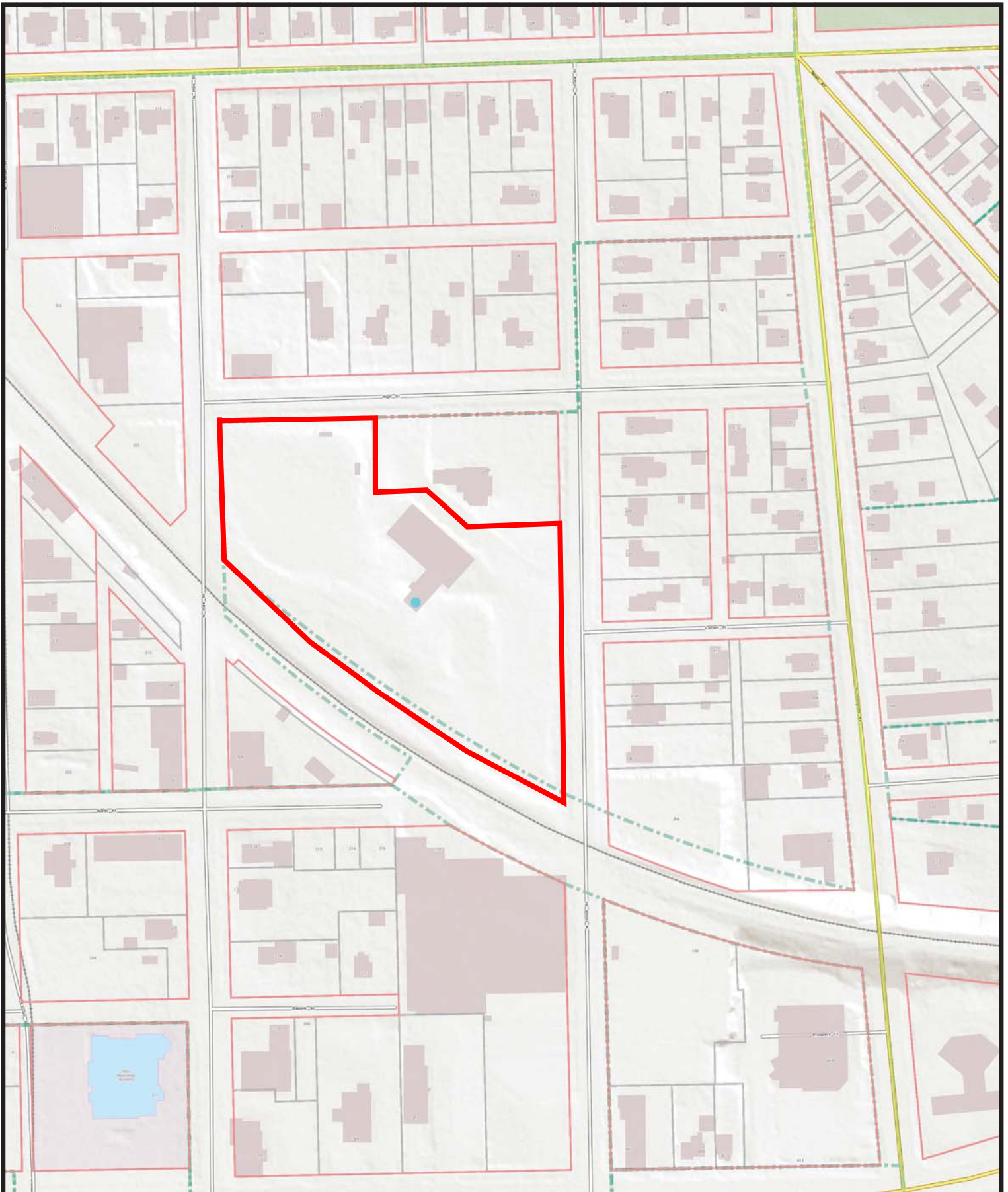
Building Information

0 building(s) found.

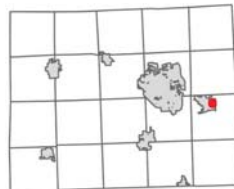
Description	Floor Area	Yr Built	Est. TCV
-------------	------------	----------	----------

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[Privacy Policy](#)



220 N. Park Street



1: 2,400

9/3/2015



NOTE: Parcels may not be to scale.

The information contained in this cadastral map is used to locate, identify and inventory parcels of land in Washtenaw County for appraisal and taxing purposes only and is not to be construed as a "survey description". The information is provided with the understanding that the conclusions drawn from such information are solely the responsibility of the user. Any assumption of legal status of this data is hereby disclaimed.

Appendix C

Reconnaissance Photographs



VIEW OF SUBJECT BUILDING FACING NORTHEAST



VIEW OF SUBJECT BUILDING FACING EAST



PROPERTY PHOTOGRAPHS

220 NORTH PARK STREET
YPSILANTI, MICHIGAN

TAKEN BY: KAREN VORCE
DATE: 10/1/2015

PROJECT NUMBER:
10627F



VIEW OF THE BASKETBALL COURT LOCATED SOUTHEAST OF THE SUBJECT BUILDING



VIEW OF THE EASTERN EXTERIOR SIDE OF THE SUBJECT BUILDING



PROPERTY PHOTOGRAPHS

220 NORTH PARK STREET
YPSILANTI, MICHIGAN

TAKEN BY: KAREN VORCE
DATE: 10/1/2015

PROJECT NUMBER:
10627F



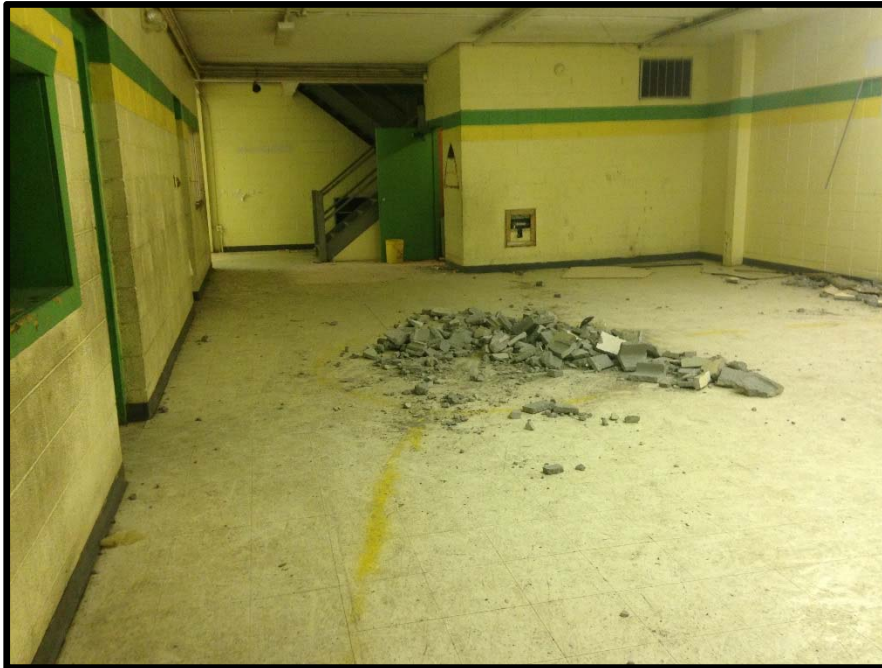
VIEW OF THE PAD MOUNTED TRANSFORMER LOCATED ON THE EASTERN SIDE OF THE SUBJECT BUILDING



VIEW OF THE AIR CONDITIONING UNIT LOCATED ON THE SOUTHERN SIDE OF THE SUBJECT BUILDING



VIEW OF DAMAGED BUILDING MATERIALS LOCATED ON THE SOUTHERN EXTERIOR OF THE SUBJECT BUILDING



VIEW OF THE FIRST FLOOR INTERIOR OF THE SUBJECT BUILDING

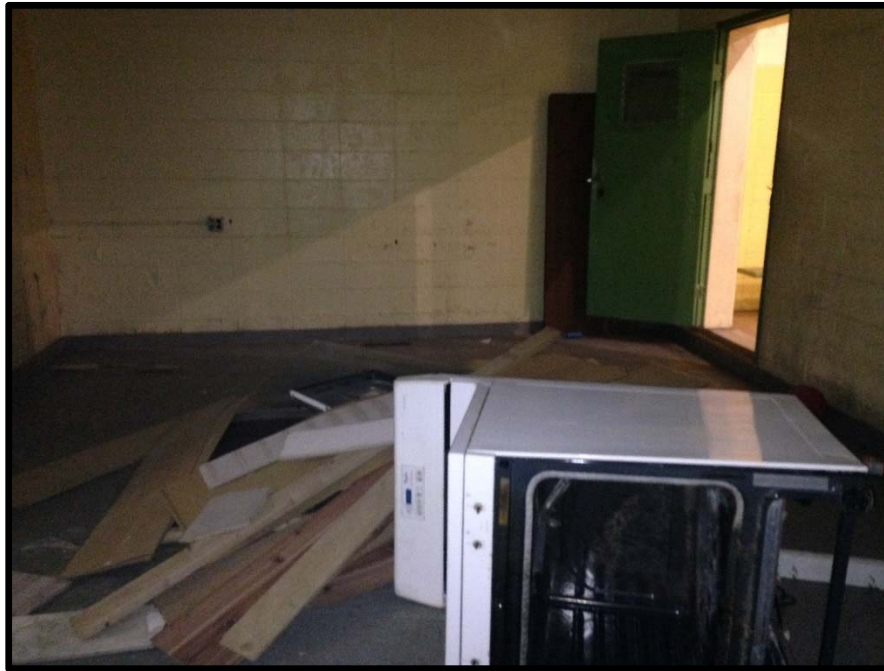


PROPERTY PHOTOGRAPHS

220 NORTH PARK STREET
YPSILANTI, MICHIGAN

TAKEN BY: KAREN VORCE
DATE: 10/1/2015

PROJECT NUMBER:
10627F



VIEW OF THE FORMER KITCHEN AREA WITHIN THE SUBJECT BUILDING



VIEW OF THE SUBJECT BUILDING GYMNASIUM



PROPERTY PHOTOGRAPHS

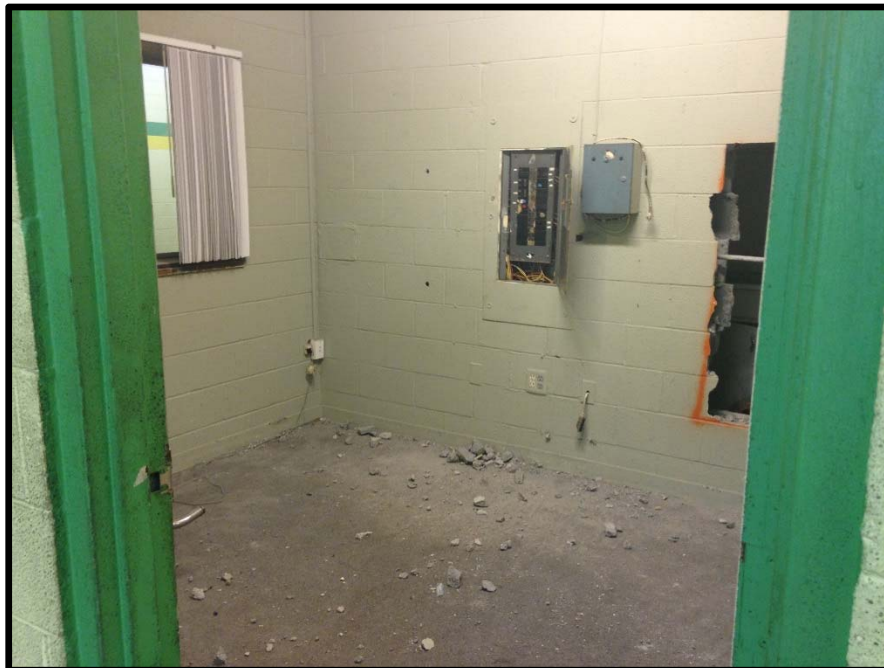
220 NORTH PARK STREET
YPSILANTI, MICHIGAN

TAKEN BY: KAREN VORCE
DATE: 10/1/2015

PROJECT NUMBER:
10627F



VIEW OF A TYPICAL SUBJECT PROPERTY BATHROOM



VIEW OF A TYPICAL SUBJECT BUILDING OFFICE AREA

 **AKT** PEERLESS

PROPERTY PHOTOGRAPHS

220 NORTH PARK STREET
YPSILANTI, MICHIGAN

TAKEN BY: KAREN VORCE
DATE: 10/1/2015

PROJECT NUMBER:
10627F



VIEW OF THE SUBJECT PROPERTY BOILER ROOM



VIEW OF THE SUBJECT BUILDING BOILER ROOM



VIEW OF THE 2ND FLOOR CLASSROOM AREA



VIEW OF THE OFFICE AREA LOCATED ABOVE THE SUBJECT BUILDING GARAGE



PROPERTY PHOTOGRAPHS

220 NORTH PARK STREET
YPSILANTI, MICHIGAN

TAKEN BY: KAREN VORCE
DATE: 10/1/2015

PROJECT NUMBER:
10627F



VIEW OF THE CHEMICAL STORAGE AREA WITHIN THE OFFICES ABOVE THE SUBJECT BUILDING GARAGE



VIEW OF A THE MECHANICAL ROOM LOCATED ABOVE THE SUBJECT BUILDING GARAGE



VIEW OF SUBJECT BUILDING GARAGE



VIEW OF PAINT AND CHEMICALS STORED WITHIN THE SUBJECT BUILDING GARAGE

AKT PEERLESS

PROPERTY PHOTOGRAPHS

220 NORTH PARK STREET
YPSILANTI, MICHIGAN

TAKEN BY: KAREN VORCE
DATE: 10/1/2015

PROJECT NUMBER:
10627F



VIEW OF THE BASEBALL SPORTS FIELD LOCATED ON THE NORTHERN PORTION OF THE SUBJECT PROPERTY



VIEW OF A TYPICAL BASEBALL DUGOUT LOCATED ON THE NORTHERN PORTION OF THE SUBJECT PROPERTY



PROPERTY PHOTOGRAPHS

220 NORTH PARK STREET
YPSILANTI, MICHIGAN

TAKEN BY: KAREN VORCE
DATE: 10/1/2015

PROJECT NUMBER:
10627F



VIEW OF THE SOUTHERN PORTION OF THE SUBJECT PROPERTY FACING NORTH



VIEW OF THE THICK VEGETATION LOCATED ALONG THE SOUTHERN PROPERTY BOUNDARY



PROPERTY PHOTOGRAPHS

220 NORTH PARK STREET
YPSILANTI, MICHIGAN

TAKEN BY: KAREN VORCE
DATE: 10/1/2015

PROJECT NUMBER:
10627F



VIEW OF SUSPECT FILL MATERIAL LOCATED WITHIN THE VEGETATION ALONG THE SOUTHERN PROPERTY BOUNDARY



VIEW OF THE NORTHERN ADJOINING PROPERTIES



PROPERTY PHOTOGRAPHS

220 NORTH PARK STREET
YPSILANTI, MICHIGAN

TAKEN BY: KAREN VORCE
DATE: 10/1/2015

PROJECT NUMBER:
10627F



VIEW OF THE NORTHEASTERN ADJOINING PROPERTY



VIEW OF THE EASTERN ADJOINING PROPERTIES



PROPERTY PHOTOGRAPHS

220 NORTH PARK STREET
YPSILANTI, MICHIGAN

TAKEN BY: KAREN VORCE
DATE: 10/1/2015

PROJECT NUMBER:
10627F



VIEW OF THE SOUTHEASTERN ADJOINING PROPERTY



VIEW OF THE SOUTHERN ADJOINING PLATING FACILITY



PROPERTY PHOTOGRAPHS

220 NORTH PARK STREET
YPSILANTI, MICHIGAN

TAKEN BY: KAREN VORCE
DATE: 10/1/2015

PROJECT NUMBER:
10627F



VIEW OF THE SOUTHERN ADJOINING PROPERTY



VIEW OF THE NORTHWESTERN ADJOINING PROPERTY



PROPERTY PHOTOGRAPHS

220 NORTH PARK STREET
YPSILANTI, MICHIGAN

TAKEN BY: KAREN VORCE
DATE: 10/1/2015

PROJECT NUMBER:
10627F

Appendix D
Standard Environmental Record Database Report
(Omitted from BEA Document)


Appendix E
Aerial Photograph Documentation
(Omitted from BEA Document;
Duplicative)

Appendix F
Fire Insurance Map Documentation
(Omitted from BEA Document;
Duplicative)

Appendix G
Other Relevant Documentation

Project Name:
Project Address: 220 North Park Street
Project City/State: Ypsilanti, MI
AKT Peerless Project No.: 10627F-2-17

This questionnaire should be completed by the property owner, the owner's designated representative (anyone knowledgeable about the subject property), and returned to AKT Peerless' Environmental Professional prior to the site reconnaissance. The Environmental Professional may ask for details associated with selected questions. This questionnaire may be utilized as an exhibit in the final Report.

Respondent Name:	BETH ERNAT
Respondent Signature:	
Respondent Title:	DIRECTOR OF COMMUNITY & ECONOMIC DEV.
Respondent Company:	CITY OF YPSILANTI
Date:	9/28/15

UNK = Unknown NA = Not Applicable

		YES	NO	UNK	NA			YES	NO	UNK	NA
1	Is the Property used for an industrial use?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	Has Fill Dirt been brought onto the Property that is of an unknown origin?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	To the best of your knowledge, has the Property been used for an industrial purpose in the past?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8	Are there currently any Pits, Ponds or Lagoons located on the Property in connection with waste treatment or waste disposal?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Is the Property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9	To the best of your knowledge, have there been previously any Pits, Ponds or Lagoons located on the Property in connection with waste treatment or waste disposal?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	To the best of your knowledge, has the Project been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10	Is there currently, any stained soil on the Property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Are there currently automotive or industrial batteries, pesticides, paints, or other chemicals in individual containers of greater than five gallons in volume or fifty gallons in the aggregate, stored on or used at the Property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11	To the best of your knowledge, has there been previously any stained soil on the Property?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	To the best of your knowledge, have there been previously automotive or industrial batteries, pesticides, paints, or other chemicals in individual containers of greater than five gallons in volume or fifty gallons in the aggregate, stored on or used at the Property?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12	Are there currently any registered or unregistered storage tanks (above or underground) located on the Property?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

UNK = Unknown NA = Not Applicable

		YES	NO	UNK	NA			YES	NO	UNK	NA
13	Are there currently any industrial Drums (typically 55 gallon) or sacks of chemicals located on the Property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	22	To the best of your knowledge, have there been previously any registered or unregistered storage tanks (above or underground) located on the Property?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14	To the best of your knowledge, have there been previously any industrial Drums (typically 55 gallon) or sacks of chemicals located on the Property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	23	Are there currently vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground or adjacent to any structure at the Property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	Has Fill Dirt been brought onto the Property that originated from a contaminated site?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	24	To the best of your knowledge, have there been previously any vent pipes, fill pipes or access ways indicating a fill pipe protruding from the ground or adjacent to any structure located on the Property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	Are there currently any flooring, drains, or walls located at the Property that are stained by substances other than water or are emitting foul odors?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25	Have any Hazardous Substances or Petroleum Products, unidentified waste materials, tires, automotive or industrial batteries or any other waste materials been dumped above grade, buried and/or burned on the Property?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
17	To the best of your knowledge, have there been previously any flooring, drains, or walls located at the Property that are stained by substances other than water or are emitting foul odors?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	26	Is there a transformer, capacitor or any hydraulic equipment for which there are any records indicating the presence of PCBs?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	If the Property is served by a private well or non-public water system, have contaminants been identified in the well or system that exceed guidelines applicable to the water system?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	27	Is there now or has there ever been any asbestos-containing materials (ACM), in any application, on the Property?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19	If the Property is served by a private well or non-public water system, has the well been designated as contaminated by any government environmental/health agency?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	28	Has there ever been any ACM testing conducted on the Property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20	Are there any Environmental Liens or governmental notification relating to past or current violations of environmental laws with respect to the Property or any facility located on the Property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	29	Is there now or has there ever been any lead-based paint (LBP) applications on the Property?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21	Has the owner or occupant of the Property been informed of the past existence of Hazardous Substances or Petroleum Products with respect to the Property or any facility located on the Property?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30	Has there ever been LBP testing conducted on the Property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31	Has the owner or occupant of the Property been informed of the current existence of Hazardous Substances or Petroleum Products with respect to the Property or any facility located on the Property?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	37	Has there been indications of moisture intrusion, mildew-like odors, or visible mold growth on the Property?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

UNK = Unknown NA = Not Applicable

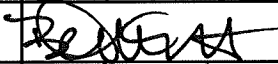
		YES	NO	UNK	NA			YES	NO	UNK	NA
32	Has the owner or occupant of the Property been informed of the past existence of environmental violations with respect to the Property or any facility located on the Property?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	38	Is the Property or any portion of the Property located or involved in any environmentally sensitive areas (i.e., wetlands, coastal barrier resource areas, coastal barrier improvement act areas, flood plains, endangered species, etc.)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
33	Have there been any Environmental Site Assessments of the Property that indicated the presence of Hazardous Substances or Petroleum Products on, or contamination of, the Property or recommended further assessment of the Property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	39	Does the Property discharge waste water on or adjacent to the Property, other than storm water, into a storm water sewer system?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34	Are there any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any Hazardous Substance or Petroleum Products involving the Property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	40	Does the Property discharge waste water on or adjacent to the Property other than storm water, or into a sanitary system?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
35	To the best of your knowledge, has any Adjoining Properties been used for an industrial use in the past?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	41	Are any Adjoining Properties used for an industrial use?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36	Is any Adjoining Property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	42	To the best of your knowledge, has any Adjoining Property been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Additional Comments from Key Site Contact:

The property was used a recreation facility beginning in the 1940s. It was owned by the Boys/Girls Club and was given to the city in early 2000s.

AKT PEERLESS Questionnaire

Project Name:
Project Address: 220 North Park Street
Project City/State: Ypsilanti, MI
AKT Peerless Project No.: 10627F-2-17

Respondent Name:		Beth Ernat		
Respondent Signature:				
Respondent Title:		Director of Community & economic dev		
Respondent Company:		CITY OF YPSILANTI		
Date:		9/28/15		
		UNK = Unknown YES NO UNK		
1	Was a search of recorded land title records (or judicial records where appropriate) to identify environmental liens filed or recorded against the property under federal, tribal, state or local law, completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Did a search of recorded land title records (or judicial records where appropriate) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property site and/or have been filed or recorded against the property under federal, tribal, state or local law?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	Do you have any specialized knowledge or experiences related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Do you have actual knowledge regarding any environmental lien or Activity Use Limitations (e.g., Commercial-use Deed Restriction) associated with the subject property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5a	Does the purchase price being paid for this property reasonably reflect the fair market value of the property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5b	If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Are you aware of commonly known or reasonably ascertainable information within the local community about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7	Do you know the past uses of the property?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	Do you know of specific chemicals that are present or were once were present at the property?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	Do you know of spills or other chemical releases that have taken place at the property?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	Do you know of any environmental cleanups that have taken place at the property?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	Based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	Is it your intention to utilize this Phase I ESA to qualify for Landowner Liability Protection to CERCLA liability? <i>NO</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	What is the reason you have retained AKT Peerless to perform this Phase I ESA (e.g., purchase, refinance, insurance purposes, etc)? <i>AKT Peerless</i>	<i>AKT Peerless</i>		
	Response:			
14	Are there any special terms and conditions that apply to the completion of this Phase I ESA (e.g., access limitations, confidentiality, etc.)?			
	Response:			
Additional Comments from Client:				
<i>X</i>				
<i>X</i>				
<i>X</i>				
<i>X</i>				

Karen Vorce

From: Seylon Dudley <sdudley@cityofypsilanti.com>
Sent: Monday, September 28, 2015 9:41 AM
To: Karen Vorce
Subject: 220 N. Park Street Ypsilanti

Karen,

The City of Ypsilanti Fire Department does not contain any information pertaining to the 220 N Park Street address. If you have any further questions please feel free to contact me directly.

Thank you,

Seylon Dudley

City of Ypsilanti Fire Department
Administrative Assistant
734 482-9778

From: Karen Vorce [mailto:VorceK@aktpeerless.com]
Sent: Thursday, September 24, 2015 8:22 AM
To: Seylon Dudley
Subject: RE: Fire Uestionnaire

Thanks Seylon!

Karen Vorce

Environmental Consultant

Email vorcek@aktpeerless.com

Tel 248.615.1333

Cell 248.331.5524



a better environment for your business

22725 Orchard Lake Road

Farmington, MI 48336

aktpeerless.com | [Facebook](#) | [LinkedIn](#)

From: Seylon Dudley [mailto:sdudley@cityofypsilanti.com]
Sent: Thursday, September 24, 2015 8:19 AM
To: Karen Vorce <VorceK@aktpeerless.com>
Subject: Fire Questionnaire

Hello,

I have attached the Fire Questionnaire above.

Thank you,

Seylon Dudley

City of Ypsilanti Fire Department

Administrative Assistant

734 482-9778



City of Ypsilanti

Community and Economic Development

July 15, 2015

City of Ypsilanti
1 S Huron
Ypsilanti, MI 48197

RE: HDC Demolition Permit Application for 220 N Park.

Dear City of Ypsilanti,

On Tuesday, July 14, 2015 the Historic District Commission (HDC) reviewed your request for work at 220 N Park. Your application was **approved** to include:

The demolition of the proposed building, the old Boys Club office, gym, and dugouts.

Approval by the Historic District Commission does not exempt you from nor can be substituted for zoning or building department approval. You must apply for and receive all applicable permits within six months of this date for your HDC approval to remain valid.

Please contact me at 734-483-9646 or through email at hintern@cityofypsilanti.com with any questions.

Sincerely,

Abigail Jaske, HDC Assistant
Planning and Development Department

Cc: File

~~Esti Womack, Building Department~~



Ypsilanti Historic District
Demolition Permit Application

Date Filed 7/18/15 for HDC meeting date 7/14/2015

Property Address 220 N Park

Applicant: Name City of Ypsilanti

Address 1 S Huron

City Ypsilanti State MI Zip Code 48197

Phone 734 483 9646 Fax _____

Email wesslerb@cityofypsilanti.com

If applicant is not owner:

Owner's name N/A

Address _____

City _____ State _____ Zip Code _____

Phone _____ Fax _____

Signature of Owner [Signature]

Who will perform the work?

Contractor's name unknown - will be out to bid

Address and phone _____

Cost of proposed work _____ Permit Application Fee _____
The permit fee is \$30 plus \$5 for each (or any portion of) \$3000 of construction cost and is due with the application. An additional administrative fee of \$50 applies to HDC work started without the issuance of applicable permits.

To complete this application:

1. Fill in all necessary information on both sides of this application
2. The following additional items must be submitted with the application in order for an application to be considered complete:
 - Information sufficient to justify the grounds upon which the applicant has chosen to base the application.
 - Written evidence that alternatives to demolition or moving have been evaluated (including, but not limited to rehabilitation, sale, adaptive reuse) and both architectural and financial data to support a conclusion that demolition is the only feasible option. The evidence shall show that the property was offered for sale, the price asked, the period of time during which the property was offered for sale, and how it was advertised.
 - Written evidence of advice sought by applicant from a professional experienced in historic preservation work.
 - It is the applicant's burden to show that the application complies with the Guidelines. If the application does not meet the burden, the application shall be denied.

Incomplete Applications will not be considered

220 N Park

The City of Ypsilanti planning to demolish all structures at 220 N Park. This includes the main gym, the administrative offices, and the two dugouts on the property. These structures are obsolete, in poor repair and are non-contributing to the Historic District. The structures are currently vacant and have been since the Boys & Girls Club left in November of 2010. The commercial structure is located in the Core Neighborhood Mid district, and is city-owned. The property has been on the market since July 2013 with David Hamilton of Swisher Commercial Real Estate. Despite several inquiries, the cost to demolish the existing structures has deterred several developers from embarking on projects in this desirable neighborhood. The City has been unable to proactively prepare the site for redevelopment due to a highly constrained budget. In addition, the property is a frequent target for graffiti and vandalism due to it not being occupied. Demolition of this structure would create a sizeable tract to meet Master Plan goals of new owner-occupied housing and increasing the taxable value of the City in a prime location near downtown and other new developments, while offering the benefits of locating within a strong, established neighborhood. New, modern, housing stock in this historic neighborhood would be a boon to the neighborhood and to the City's tax base.



Northeast side of the structure, view from the front yard of the Gilbert House

FILE COPY

M E M O R A N D U M

TO: John M. Barr, City Attorney
FROM: Larry D. Abernathy, Building Inspection Supervisor *LA*
DATE: December 10, 1990
SUBJECT: Penn Central Railroad Property

Reference our telephone conversation this morning. Mr. Booker, Director Ypsilanti Boys and Girls Club, has been trying to get Penn Central Railroad to cut the brush and remove debris from their property adjacent to Club. He fears for the safety of the children crossing near this property during the evening hours.

Apparently, Penn Central has not responded to Mr. Booker's request in a timely manner. Hence, Mr. Booker is asking the City to take actions under City Ordinances to compel Penn Central to take action. I'm not sure what action I can take, since I believe the railroad is a quasi-federal entity and as such, City Ordinances may not be enforceable against them.

Mr. Booker has been dealing with:

Penn Central Railroad
Wyane Curtis, Director Marketing & Real
Estate
1 East Fourth St
Cincinnati, Ohio 45202
Phone: 517-579-6860

Any advise you can give would be appreciated.

Thank You.

CC: City Manager
Mr. Booker, Ypsilanti Boys and Girls Club

IV. IDENTIFICATION - To be completed by all applicants

Name	Mailing address - Number, street, city, and State	ZIP code	Tel. No.
1. Owner or Lessee Boy and Girls Clubs	220 North Park Ypsilanti Michigan		481-0270
2. Contractor CARVER construction	306 NORTH RIVER Ypsilanti Mich	Builder's License No. 68702	485-0088
3. Architect or Engineer			

I hereby certify that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and we agree to conform to all applicable laws of this jurisdiction.

Signature of applicant <i>Paul Carr</i>	Address 306 North RIVER	Application date 1/19/93
--	----------------------------	-----------------------------

DO NOT WRITE BELOW THIS LINE

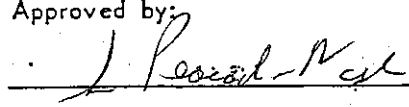
V. PLAN REVIEW RECORD - For office use

Plans Review Required	Check	Plan Review Fee	Date Plans Started	By	Date Plans Approved	By	Notes
BUILDING		S					
PLUMBING		S					
MECHANICAL		S					
ELECTRICAL		S					
OTHER		S					

VI. ADDITIONAL PERMITS REQUIRED OR OTHER JURISDICTION APPROVALS

Permit or Approval	Check	Date Obtained	Number	By	Permit or Approval	Check	Date Obtained	Number	By
BOILER					PLUMBING				
CURB OR SIDEWALK CUT					ROOFING				
ELEVATOR					SEWER				
ELECTRICAL					SIGN OR BILLBOARD				
FURNACE					STREET GRADES				
GRADING					USE OF PUBLIC AREAS				
OIL BURNER					WRECKING				
OTHER					OTHER				

VII. VALIDATION

Building Permit number _____ Building Permit issued _____ 19____ Building Permit Fee \$ _____ Certificate of Occupancy S _____ Drain Tile S _____ Plan Review Fee S _____	<p style="text-align: center;">FOR DEPARTMENT USE ONLY</p> Use Group _____ Fire Grading _____ Live Loading _____ Occupancy Load _____
Approved by:  _____ TITLE	



CITY OF YPSILANTI FIRE DEPARTMENT

525 WEST MICHIGAN AVENUE • YPSILANTI, MICHIGAN 48197
TELEPHONE (313) 482-9778

COPY

March 14, 1991

Mr. Ike Booker, Executive Director
Huron Valley Boys and Girls Club
220 N. Park Street
Ypsilanti, Michigan 48198

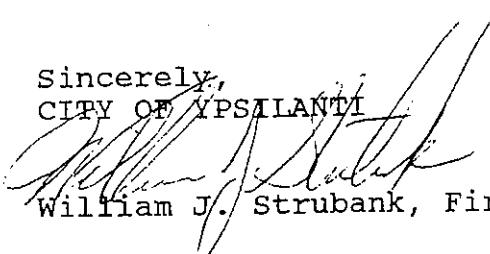
Dear Mr, Booker:

At your request, I conducted a Fire Prevention inspection at the Boys and Girls Club on March 14, 1991. Listed below, you will find the violations that were found. The inspection was conducted using the B.O.C.A. Fire Prevention code as reference.

- 1, All exit signs in the building should be replaced with a type that provides battery operation in the event of a power failure. Rule: F-403.1
- 2, Emergency lighting units should be installed to provide illumination for all passageways to an exit. Rule F-403.2
- 3, Remove the "slide" type bolt lock from the exit door on the south wall in the gym area. Rule: F-602,2 #2
- 4, The fire alarm system must be maintained in an operative condition at all times. Rule: F-502.1
- 5, Remove all storage from the area of the Electrical panel in the furnace room. Rule: F-314.3
- 6, Install a cover for the duplex outlet in the A/C room on the 2nd floor. Rule: F314.1

If you have any questions regarding this inspection, please feel free to contact me during office hours.

Sincerely,
CITY OF YPSILANTI


William J. Strubank, Fire Marshal

DSS-1570 (Rev. 2-90)
 1 - Licensing Consultant
 2 - Inspecting Agency
 3 - Applicant/Licensee

FIRE SAFETY COMPLIANCE RECORD
FOR CHILD CARE CENTERS
 Michigan Department of Social Services

1. BRS Control Number 12 License Number _____

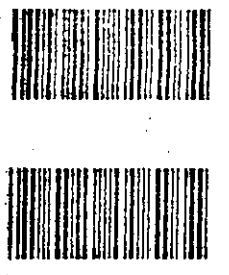
4. Capacity _____ 5. License Status _____

7. Reason For Inspection
 ORIGINAL RENEWAL
 INTERIM FOLLOW-UP
 COMPLAINT OTHER

3. Center Name
Boys and Girls Club

6. Address (Street, Number and Name)
230 N. Park

8. City Ypsilanti 9. State MI 10. ZIP Code 48198



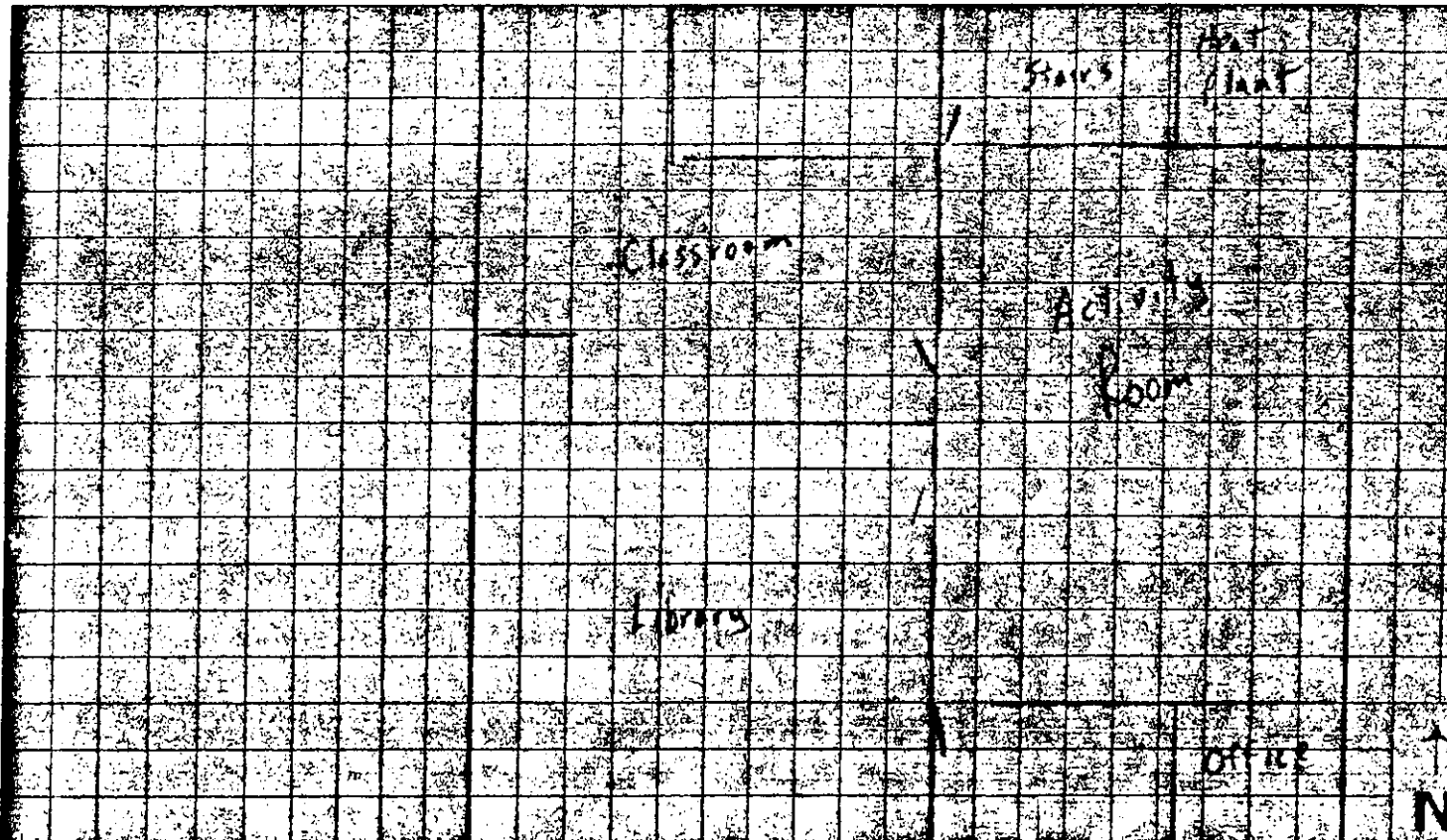
THE STATEMENTS WHICH APPEAR OPPOSITE EACH RULE NUMBER ARE BRIEF SUMMARIES AND ARE NOT IDENTICAL TO THE ADMINISTRATIVE RULE. THE COLUMNS ARE TO INDICATE WHETHER THE BUILDING IS DETERMINED TO BE IN COMPLIANCE, OR IN NON-COMPLIANCE OR NOT APPLICABLE (N/A) WITH THE RULES. Each time that the non-compliance column is marked, please comment using Form DSS-1568.

RULE	Compliance			RULE	Compliance		
	Comp.	Non-Comp.	N/A		Comp.	Non-Comp.	N/A
Rule 400.5805. Plans and Specification Submission Approval. All new construction or renovations shall require plan submission and approval prior to the commencement of actual work.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rule 400.5825. Hazardous Areas.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rule 400.5810. Construction.				(1) In existing licensed centers, hazardous areas shall be separated from other parts of the building used as a center by a minimum 3/4 hour fire-resistant construction.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(1) Shall comply with one of the subrules (2)(3)(4)(5) or (6).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(2) All required means of egress or use areas shall be protected from commercial kitchens by a one-hour fire resistant separation.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
(2) Main floor shall be of wood frame construction as a minimum requirement.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(3) The incinerator shall be separated from the center by a construction having a one-hour fire resistance rating. In new construction the incinerator room shall have one outside wall containing a window or door.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
(3) When the second floor is occupied, construction shall be of protected ordinary construction with all stairways and other vertical openings properly enclosed.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(4) The center shall be heated by a central heating plant installed in a one-hour enclosure with adequate combustion air or a permanently installed electrical heating system. Combustible materials shall be stored in rooms other than the heat plant room.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(4) When occupancy is above the second floor, construction shall be one-hour fire resistive, with all stairways and other vertical openings properly enclosed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(5) Existing licensed centers with the heating plant in the basement and not used for child occupancy shall be protected by a qualified floor separation including a 1-3/4" thick solid core door. Heating plant on the same floor shall be enclosed by one-hour fire-resistant construction.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
(5) Basement occupancy shall have approved exiting.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(6) Combustion type water heaters shall be located in a room of one-hour fire resistive construction or separated by a qualified floor separation.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(6) Basement occupancy shall be limited to not more than 30 children when only one exit discharges directly to the outside at grade or through one-hour fire resistive stairway. The second exit shall terminate at the first floor with approved floor separation.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(7) Electric heating shall be U.L. approved and permanent fixed type.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
(7) All vertical openings and stairways that are not covered under items 2 to 6 above, shall be enclosed with doors and partitions equal in fire resistance to the standard partition construction of the building.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(8) Boilers shall be inspected and approved by the boiler division, Michigan Department of Labor.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
(8) Existing licensed centers housed on the second floor or above, with no increase in capacity, shall be permitted to remain, provided all other applicable fire safety rules are met.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(9) Portable combustion or electrical units shall not be used in the building.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rule 400.5815. Interior Finishes.				(10) In new construction, combustible storage rooms of over 100 square feet shall be of one-hour fire resistive construction.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
(1) Interior finish materials are defined with the alphabetical classification of "A", "B", or "C".	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(11) In existing licensed centers storage rooms of over 100 square feet, walls and ceilings shall be of non-combustible material with any door opening protected by a substantial door.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
(2) Interior finish materials more hazardous than class "C" shall be prohibited.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(12) Flammable materials shall be stored in designated cabinets accessible to authorized personnel only.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(3) In new construction, additions or conversions interior finish classification shall be that of the basic material used and shall be "A" or "B" in the means of egress and "A", "B", or "C" in other areas.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(13) Gasoline-powered equipment shall not be stored in the part of the building used as a center, or in other parts of the building without proper separation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(4) Certain existing licensed facilities, shall have specified interior finishes treated with an approved fire retardant coating.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(14) In new construction, commercial type laundry equipment shall be installed in a one-hour fire resistive enclosure.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
(5) Interior finish materials of class "B" or "C", which are less than 1/4" thick, shall be furred out no more than one inch, or shall be applied to noncombustible backing.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Rule 400.5830. Landings, Steps and Stairs.			
Rule 400.5820. Exits.				(1) Stairway steps shall not be more than 7-12" in height, and treads shall not be less than 9-1/2" in the clear. Adequate landings and handrails shall be provided.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(1) Each occupied floor shall have not less than two approved exits directly to the outside.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Rule 400.5835. Multiple Occupancy.			
(2) All egress doors shall be side-hinged and equipped with approved hardware.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(1) Buildings of multiple occupancy shall not present a life safety hazard.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(3) Exit doors shall swing in the direction of egress in centers licensed for 13 or more children.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(2) Buildings of multiple occupancy, part of which are used for hazardous operations, shall be prohibited. (Vocational educational centers approved by the Department of Education are exempted).	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
(4) Doors of rooms with an occupancy of 13 or more shall swing in the direction of egress.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rule 400.5840. Fire Alarm.			
(5) Required means of egress shall be maintained in an unobstructed manner and shall not be exposed to inherent hazards of the building.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(1) Centers occupying more than one room shall be protected by an approved manual or electrical fire alarm. Centers using 5 or more rooms, or licensed for 61 or more children, shall be protected by a closed circuit, self-supervised electrical fire alarm system.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(6) In new construction, exit doors shall be a minimum of 36" in width.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
(7) In existing licensed facilities, exit doors shall be a minimum of 28" in width.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
(8) Exterior exits shall be marked with proper and distinctive exit signs.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				

Boys and Girls Club

RULE	Comp.	Non-Comp.	N/A	RULE	Comp.	Non-Comp.
Rule 400.5845. Fire Extinguishers. Multi-purpose fire extinguishers of a minimum 2A:10B C rating shall be installed in the kitchen, heat plant room and other critical areas, as needed, based upon capacity and conditions.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rule 400.5860. Emergency Procedures. Written procedures shall be provided for the evacuation and care of children during an emergency such as fire, tornado, or a serious accident or injury. Staff members shall be kept informed of their duties and responsibilities in the event of such an emergency. Fire alarm drills shall be conducted to assure prompt evacuation of the building. A fire drill program shall be established.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rule 400.5850. Electrical Service. In new construction, additions and conversions, or where conditions indicate the need for inspection, the electrical service shall be inspected by the authority having jurisdiction and shall be in possession of a certificate of approval. In existing centers, the electrical service shall be maintained in a safe condition.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Rule 400.5865. Occurrence of Fire, Report. The State Police Fire Marshal Division shall be notified immediately of the occurrence of a fire in a center that results in the loss of life or property.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rule 400.5855. Smoking (1) Smoking is prohibited where children are present. A room or lounge equipped with non-combustible receptacles shall be provided for staff and visitors who smoke at the center.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

IMPORTANT: Please sketch below, or on an attached sheet, the area that has been inspected and any other relevant areas include floor, section of building, number of rooms or any other information which helps identify the location of the inspected area.



RECOMMENDATION (If you have any questions concerning this report, please contact the inspecting person named below)

- A. This facility has been determined to be in substantial compliance with applicable rules.
- B. Because of the above listed deficiencies, temporary approval is recommended until next renewal inspection and report.
- C. Because of the above listed deficiencies, temporary approval is recommended until _____ (date).
- D. This facility has been determined to be in substantial non-compliance with applicable rules. Approval is not recommended.

I CERTIFY THAT THIS INFORMATION IS, TO THE BEST OF MY ABILITY, TRUE AND CORRECT.

14. Name of Inspecting Person (Print or type) Robert D. Patrick		15. Telephone Number 227-6701	
16. Agency Address (Number, Street) 701 Oak Ridge Dr.		City Brighton	ZIP Code 48116
17. Signature of Inspecting Person <i>Robert D. Patrick</i>		18. Date of Inspection 11-7-92	

PAGE NUMBER	3 of 4
1. BRS Control Number	
3. License Number	

2 Facility Name
 Boys and Girls Club

Each citation of a rule non-compliance is to be briefly described below. The rule number is to be indicated in the left hand column. The description of non-compliance is to include a description of the conditions or factors resulting in the citing of non-compliance and a specific indication of where in the building the deficiency is located. Suggestions for achieving compliance may also be made.

RULE NUMBER	DESCRIPTION OF NON-COMPLIANCE
810(3)	Repair doors to stairway at north and south of second floor activity room. Both doors need to be adjusted to ensure they close and latch. At this time they stick to the floor holding them open.
	Remove all combustible storage from beneath both stairways. This includes removing the plywood doors and walls to storage area.
810(3)	Provide affidavit for paneling in south stairway indicating it has minimum Class "B" rating. Remove if affidavit can not be provided.
815(2)	Provide affidavit of interior finish rating for paneling inside activity room, indicating it is minimum Class "C". Remove paneling if affidavit can not be provided.
820(1)	See 810(3) above.
820(5)	See 810(3) above. Remove deadbolts from south exterior exit door.
825(4)	Install door closer on ground floor heat plant room. Seal all through wall penetrations with approved sealant material in both mechanical rooms (ground floor and second floor). Through floor

PAGE NUMBER
 4 of 4
 1. BRS Control Number
 3. License Number

2 Facility Name
 Boys and Girls Club

Each citation of a rule non-compliance is to be briefly described below. The rule number is to be indicated in the left hand column. The description of non-compliance is to include a description of the conditions or factors resulting in the citing of non-compliance and a specific indication of where in the building the deficiency is located. Suggestions for achieving compliance may also be made.

RULE NUMBER	DESCRIPTION OF NON-COMPLIANCE
	penetrations between the two rooms shall be sealed with approved sealant materials.
	Install minimum 2 and 3/4" solid core wood door in second floor heat plant room. Build a minimum 1 hour rated wall for the second floor heat plant room. This can be accomplished by continuing the existing walls up to the roof deck or by constructing a one hour ceiling in this room. The previous mentioned door is to have an automatic door closer and latching hardware.
825(4)	See previous violation 825(4).
828(4)	Remove portable electric heater observed in office in southeast corner of center. ✓
7508	Replace 2 missing junction box covers observed in closet in northwest room. ✓

CITY OF YPSILANTI
 BUILDING INSPECTION
 525 W MICHIGAN AVENUE
 YPSILANTI, MI 48197
 (313) 482-1025

PERMIT FEE \$ 60
 REGISTRATION _____
 PLAN REVIEW _____
 COF O FEE _____
 ADMIN FEE _____
 TOTAL \$ 60

*Fees waived
 per Shannon
 Jm*

#93-021

BUILDING PERMIT / PLAN REVIEW APPLICATION

I. LOCATION OF BUILDING

AT (LOCATION) 220 North Park (NO.) (STREET) ZONING DISTRICT _____

BETWEEN North (CROSS STREET) AND FERRIER (CROSS STREET)

SUBDIVISION _____ LOT _____ BLOCK _____ LOT SIZE _____

II. TYPE AND COST OF BUILDING - All applicants complete Parts A - D

A. TYPE OF IMPROVEMENT

1 New building
 2 Addition (If residential, enter number of new housing units added, if any, in Part D, 13)
 3 Alteration (See 2 above)
 4 Repair, replacement
 5 Wrecking (If multifamily residential, enter number of units in building in Part D, 13)
 6 Moving (relocation)
 7 Foundation only

B. OWNERSHIP

8 Private (individual, corporation, nonprofit institution, etc.)
 9 Public (Federal, State, or local government)

D. PROPOSED USE -

Residential

12 One family
 13 Two or more family - Enter number of units - - - - -> _____
 14 Transient hotel, motel, or dormitory - Enter number of units - - - - -> _____
 15 Garage
 16 Carport
 17 Other - Specify _____

Nonresidential

18 Amusement, recreational
 19 Church, other religious
 20 Industrial
 21 Parking garage
 22 Service station, repair garage
 23 Hospital, institutional
 24 Office, bank, professional
 25 Public utility
 26 School, library, other educational
 27 Stores, mercantile
 28 Tanks, towers
 29 Other - Specify _____

C. COST

10. Cost of improvement..... \$ 5355.00 (Omit cents)

To be installed but not included in the above cost

a. Electrical..... _____

b. Plumbing..... _____

c. Heating, air conditioning..... _____

d. Other (elevator, etc.)..... _____

11. TOTAL COST OF IMPROVEMENT \$ 5355

Nonresidential - Describe in detail proposed use of buildings, e.g., food processing plant, machine shop, laundry building at hospital, elementary school, secondary school, college, parochial school, parking garage for department store, rental office building, office building at industrial plant. If use of existing building is being changed, enter proposed use.

III. SELECTED CHARACTERISTICS OF BUILDING - For new buildings and additions, complete Parts E - L; for wrecking, complete only Part J, for all others skip to IV.

E. PRINCIPAL TYPE OF FRAME

30 Masonry (wall bearing)
 31 Wood frame
 32 Structural steel
 33 Reinforced concrete
 34 Other - Specify _____

F. PRINCIPAL TYPE OF HEATING FUEL

35 Gas
 36 Oil
 37 Electricity
 38 Coal
 39 Other - Specify _____

G. TYPE OF SEWAGE DISPOSAL

40 Public or private company
 41 Private (septic tank, etc.)

H. TYPE OF WATER SUPPLY

42 Public or private company
 43 Private (well, cistern)

I. TYPE OF MECHANICAL

Will there be central air conditioning?
 44 Yes 45 No

Will there be an elevator?
 46 Yes 47 No

J. DIMENSIONS

48. Number of stories..... 2
 49. Total square feet of floor area, all floors, based on exterior dimensions..... _____
 50. Total land area, sq. ft. _____

K. NUMBER OF OFF-STREET PARKING SPACES

51. Enclosed..... _____
 52. Outdoors..... _____

L. RESIDENTIAL BUILDINGS ONLY

53. Number of bedrooms..... _____

54. Number of bathrooms { Full..... _____
 Partial..... _____

Part of Hunters Addition to Upsilanti



Registers Office
 Wash tenaw County
 Recd & recorded this 13th day of May
 A.D. 1859 at 9 O'Clock AM in Liber
 45 of deeds on page 153
 For M. G. Sheldon Register & Clerk Dept

Know all men by these presents that I
 John Gilbert of the City of Upsilanti County
 of Wash tenaw and State of Michigan do
 acknowledge, publish, declare and record the above survey and plat of
 which I am the owner and proprietor as a plat of an addition to the
 City of Upsilanti known and designated as Gilberts addition to the City
 of Upsilanti & I do dedicate to public use the Streets and alleys in said
 addition pursuant to the Laws of the State of Michigan in such cases made &
 provided, And I do further publish and declare that the Lots surveyed
 plotted & situated in said addition are and shall hereafter be known
 & designated by their respective numbers as shown on said map & plat
 hereunto annexed And said addition so situated on part of Hunters
 addition to the Village of Upsilanti and is a replatting of part of said
 addition & of so much thereof as was vacated by an ordinance of the
 Common Council of the City of Upsilanti, In testimony whereof the said
 John Gilbert has hereunto set his hand and seal this 12th day of May 1859
 In presence of
 A. C. Blodget }
 E. L. Godard }

John Gilbert, Seal
 Harriet A. Gilbert, Seal

State of Michigan County of Washtenaw On this 12 day of May 1859
 before me the undersigned a Notary Public in & for said County of Washtenaw
 personally came the above named John Gilbert and Harriet Gilbert his wife
 & acknowledged that the said John Gilbert Jr is the owner and proprietor
 of the above plat & that he caused the above survey to be made and plotted
 and that he causes the same to be recorded & that the Streets and Allys therein
 are dedicated to public use & that the same is made as an addition
 to the City of Gpsilante and the said Harriet Gilbert wife of the said
 John Gilbert Jr upon a private examination separate and apart from her
 said husband acknowledged that she executed the same freely and without
 any fraud or compulsion from her said husband or any other person all of
 which I certify under my hand and Notarial Seal this day and year above
 written Amos L. Budget Notary Public Washtenaw County Michigan Seal

Wm R McAllister wife

Registers Office Washtenaw County

To Received for record this 13 day of May A.D. 1859 at 9:15
 William H Patterson 5 O'clock A.M. and recorded in Liber 45 of deeds on page
 154 For H. G. Sheldon Register & Clerk Dept

This Indenture made the ninth day of May in the year of our Lord one
 thousand eight hundred and fifty nine between William R McAllister and
 Electa McAllister his wife of York Washtenaw County State of Michigan
 parties of the first part and William H Patterson of Galien County and
 State aforesaid party of the second part Witnesseth that the said parties of the
 first part for and in consideration of the sum of Six hundred dollars to them
 in hand paid by the said party of the second part the receipt whereof is hereby
 confessed and acknowledged have granted bargained sold remised released
 aliened and confirmed and by their presents do grant bargain sell remise
 alien and confirm unto the said party of the second part his heirs
 and assigns forever All that certain piece or parcel of land situated in
 the Township of York in the County of Washtenaw and State of Michigan
 known and described as follows to wit: The East half of the North West quarter
 of Section No thirty five in Township No four South of Range Six East Excepting
 the East half of the South half thereof and containing sixty acres or the same
 more or less Together with all and singular the hereditaments and appurtenances
 thereto belonging or in any way appertaining and the messuages and messuages remain
 remainders rents issues and profits thereof and all the estate right title interest
 claims demands whatsoever of the said party of the first part either in law or equity
 of in and to the above bargained premises with the said hereditaments and appurten
 ances To have and to hold the said premises as above described with the appurte
 nances unto the said party of the second part and to his heirs and assigns forever
 And the said William R McAllister & his wife parties of the first part for
 their heirs executors and administrators does covenant grant bargain and agree
 to and with the said party of the second part his heirs and assigns that at
 the time of the making and delivery of these presents that they are well seized
 of the premises above conveyed as of a good ten per cent absolute and indefeasible
 estate of inheritance in the law in fee simple and that the said lands premises
 are free from all incumbrances whatever and that the above bargained premises in
 they quiet and peaceable possession of the said party of the second part his heirs an
 assigns against all and every person or persons lawfully claiming or to claim the
 whole or any part thereof we will forever warrant and defend

KNOW ALL MEN BY THESE PRESENTS: That OSPREY CONSTRUCTION COMPANY, a Michigan partnership

whose address is 46103 Grand River, Novi, MI 48050

Quit Claim(s) to The CITY OF YPSILANTI, a Michigan municipal corporation

whose address is One South Huron Street, Ypsilanti, MI 48197

the following described premises situated in the City of Ypsilanti
County of Washtenaw and State of Michigan, to-wit:

All that part of Lot 60 of GILBERTS ADDITION TO THE CITY OF YPSILANTI, a subdivision of part of the East 1/2 of Section 9, T3S, R7E, City of Ypsilanti, Washtenaw County, Michigan, as recorded in Liber 45, Page 153, Washtenaw County Records, lying southwesterly of a line described as follows: Commencing at a point located South 00°40'00" West 314.00 feet from the northeast corner of said Lot 60; thence South 89°50'50" West 100.00 feet; thence North 00°40'00" East 61.50 feet; thence North 38°16'51" West 46.05 feet; thence North 48°09'27" West 5.00 feet; thence South 40°01'36" West 5.00 feet; thence North 48°35'19" West 140.85 feet; thence North 82°44'07" West 48.71 feet to the Point of Ending. *etc*

THIS IS A CORRECTION DEED CORRECTING THE LEGAL DESCRIPTION OF A CERTAIN DEED DATED APRIL 24, 1988, RECORDED IN LIBER 2224 PAGE 424, Washtenaw County Records.

RECORDED

WASHTENAW COUNTY MI

OCT 22 10 05 AM '90

FREDY H. BAINES
COUNTY CLERK/REGISTER

for the full consideration of ONE DOLLAR (\$1.00).

Dated this 18 day of OCT 1990

Signed and Sealed:

Witnesses:

[Signature]
R. H. FLETCHER
[Signature]
REBECCA L. CURTIS

OSPREY CONSTRUCTION COMPANY (L.S.)

BY: *[Signature]* (L.S.)

Its: Christopher A. White PARTNER

BY: *[Signature]* (L.S.)

Its: STEVEN M. WHITE PARTNER

STATE OF MICHIGAN }
COUNTY OF WASHTENAW }

The foregoing instrument was acknowledged before me this 18 day of OCT 1990 by CHRISTOPHER A. WHITE and STEVEN M. WHITE, partners of OSPREY CONSTRUCTION COMPANY, a Michigan partnership, on behalf of said partnership.

My commission expires

John M. Barr Notary Public County, Michigan
Business 105 Pearl Street, PO Box 1338
Drafted by Ypsilanti City Attorney Address Ypsilanti, MI 48197

Recording Fee _____
State Transfer Tax _____
NOTARY PUBLIC
RONALD H. FLETCHER
WASHTENAW COUNTY, MICHIGAN
MY COMMISSION EXPIRES
NOVEMBER 14, 1992

When recorded return to *Grantee*

Send subsequent tax bills

to _____

Tax Parcel # _____



2-

Michigan Department of Treasury, LPS
465 (4-97) Formerly L-2349

STATE TREASURER DEED

Issued under authority of Section 211.67a, MCL.

182246

This deed is exempt from Real Estate Transfer Tax and State Real Estate Transfer Tax under MCL sections 207.505 (H) and 207.526 (H)(I) respectively

On this 5th of May, 1998 the grantor, Douglas B. Roberts, State Treasurer, State of Michigan, 430 W. Allegan St., Lansing, Michigan 48922, by his authorized representative Thomas E. Willard, quit-claims the following described property to the State of Michigan, whose address is, Department of Natural Resources, Real Estate Division, P.O. Box 30448, Lansing, Michigan 48909-7948.

Title became absolute in the State of Michigan by court decree of the Circuit Court of the County named below and nonredemption from the 1997 tax sale within the statutory period. Under section 67a of P.A. 206 of 1893, as amended, the grantor, for and in consideration of the premises, conveys to the grantee, State of Michigan, the following:

WASHTENAW County, State of Michigan.

City of Ann Arbor SN39
Town 02 South, Range 06 East Section 16
Prt SW 1/4 beg NW cor Lot 175 Huron Highlands, th S 47d 22m E 141.66 ft, th N 25d 33m E 115.03 ft, th S 87d 05m 30s W 210.12 ft, th S 60d 42m 15s E 46.92 ft, th N 30d 22m E 30.80 ft to pob
09 16 312 010

City of Ann Arbor SN240
TAPPAN PARK
The N 7.79 ft of E 32 ft of S 77.79 ft of Lot 31
09 33 206 014

Continued on next page

Witnesses:

Wendy Shuster
Wendy Shuster

Donna Landis
Donna Landis

DOUGLAS B. ROBERTS, State Treasurer

By: Thomas E. Willard
Thomas E. Willard

Drafted by Jan Rial
Local Property Services Division
Treasury Building
Lansing, Michigan 48922 ✓

STATE OF MICHIGAN)
) SS
County of Ingham)

On this 29th day of December, 1998, the foregoing instrument was acknowledged before me by Thomas E. Willard, authorized representative of the State Treasurer.

My commission expires November 07, 2002

Toni L. Falcon
Toni L. Falcon, Notary Public
Ingham County, Michigan



Michigan Department of Treasury, LPS

STATE TREASURER DEED

Issued under authority of Section 211.67a, MCL.

WASHTENAW

182246

Attachment

City of Ann Arbor SN270

RIVERSIDE HILLS SUBDIVISION NO 1

Prt Lot 19 com SW cor th n 30 ft on E li Chestnut Rd for pob th SE to SE cor Lot 19 th N
alg E li sd Lot 2 ft th NW to pt on Chestnut Rd 3 ft from pob th S 3 ft to pob
09 34 102 010

City of Ypsilanti SN389

Town 03 South, Range 07 East Section 9

Beg at ELY r/w ln of Park St at SW cor Lot 60 Gilbert's Addition to the city of Ypsilanti, th
669.09 ft alg arc to L, Radius = 1945.58 ft, Chord = S 52d 50m 0s E 665.80 ft, th S 0d
02m 30s W 45.57 ft alg WLY r/w line of Grove St, th 660.01 ft alg arc to R, Radius =
1986.74 ft, Chord = N 53d 51m 20s W 656.98 ft to ELY r/w line of Park St, th NLY alg
said r/w 60.30 ft to pob. Pt of NE 1/4 .63 acr
11 09 111 003

City of Ypsilanti SN536

WORDEN GARDENS, UNRECORDED

SLY 54 ft, NLY 418 ft, ELY 120 ft of ld lying at SE cor Franklin & Worden Streets of Lot
64
11 39 431 014

City of Ypsilanti SN605

ASSESSOR'S PLAT NO. 10

Lot 46

11 40 463 039

Township of Augusta SN675

Town 04 South, Range 07 East Section 16

Com at the E 1/4 post of sec, th W 1998.50 ft in the E-W 1/4 line to the SE cor of W 1/2
of SW 1/4 of NE 1/4, th N 00d 09m W 264 ft in the E line of W 1/2 of SW 1/4 of NE 1/4 for
a pl of beg, th N 00d 09m W 212.14 ft, th W 330.00 ft, th S 00d 09m E 212.14 ft in the
N-S 1/4 line, th E 330.00 ft to the pl of beg, being a part of W 1/2 of SW 1/4 of NE 1/4
Sec 16 T4S R7E 1.60 ac
20 16 100 012

Township of Augusta SN679

Town 04 South, Range 07 East Section 16

Com at E 1/4 post of sec, th S 1089.06 ft in E line of Sec, th N 89d 49m W 1038.14 ft for
pl of beg, th N 89d 49m W 288.26 ft th N 0d 01m 30s W 120 ft, th S 89d 49m E 288.26 ft,
th S 0d 01m 30s E 120 ft to pl of beg, being part of NE 1/4 of SE 1/4 .80 acr
20 16 400 021

Township of Augusta SN692

Town 04 South, Range 07 East Section 25

Beg at NE cor of Sec, th N 89d 45m W 404.6 ft, th S 00d 32m W 656 ft, th N 88d 52m E
404.6 ft, th N 00d 15m 20s E 656 ft to pob exc N 586 ft part NE 1/4 .65 acr
20 25 100 002



5008898
 Page: 3 of 4
 01/21/1999 02:04P
 L-3843 P-38

Michigan Department of Treasury, LPS

STATE TREASURER DEED

Issued under authority of Section 211.67a, MCL.

WASHTENAW
 182247

Attachment

Township of Northfield SN1165
 HORSESHOE LAKE DEVELOPMENT CO'S
 Lots 830 & 831 & E 1/2 Lot 832
 02 17 264 003

Township of Northfield SN1166
 HORSESHOE LAKE DEVELOPMENT CO'S SHADY BEACH SUBDIVISION
 Lots 898 - 901 Incl
 02 17 264 022

Township of Northfield SN1167
 HORSESHOE LAKE DEVELOPMENT CO'S SHADY BEACH SUBDIVISION
 Lot 902 - 904 Incl
 02 17 264 023

Township of Northfield SN1168
 HORSESHOE LAKE DEVELOPMENT CO'S SHADY BEACH SUBDIVISION
 Lot 911 & 912
 02 17 265 003

Township of Northfield SN1174
 HORSESHOE LAKE DEVELOPMENT CO'S SHADY BEACH SUBDIVISION
 Lot 962 & 963
 02 17 265 015

Township of Northfield SN1180
 LEOCADIA PARK SUBDIVISION
 Lots 98 & 99
 02 17 281 011

Township of Northfield SN1181
 LEOCADIA PARK SUBDIVISION
 Lots 108 thru 112
 02 17 282 005

Township of Northfield SN1183
 LEOCADIA PARK SUBDIVISION
 Lots 137 - 139
 02 17 282 018

Township of Superior SN1487
 Town 02 South, Range 07 East Section 22
 Com at NE cor of Sec, th S 330 ft in E line of Sec, th W 396.0 ft for pl of beg, th S 240 ft,
 th N 88d 12m W 445.50 ft, th N 240 ft, th S 88d 12m E 445.50 ft to pl of beg, being part of
 NE 1/4 2.45 acr
 10 22 100 011



Michigan Department of Treasury, LPS

STATE TREASURER DEED

Issued under authority of Section 211.67a, MCL.

WASHTENAW

182248

Attachment

Township of Sylvan SN1544
Town 02 South, Range 03 East Section 23
Beg at N 1/4 post of Sec, th S 1d 18m 22s W 159.30 ft in N-S 1/4 line, th S 85d 49m 51s W 1322.85 ft in cent of Hwy, th N 1d 15m 50s E 262.36 ft to NW cor of E 1/2 of NW 1/4, th S 89d 42m 04s E 1317.21 ft in N line of Sec to pl of beg, being a part of NE 1/4 of NW 1/4, except 2.97 Ac deeded to State Hwy for Hwy purposes 3.38 acr
06 23 200 001

Township of Ypsilanti SN1625
Town 03 South, Range 07 East Section 1
Com at cent of Sec, th N 88d 07m E 503 ft in E-W 1/4 line for a pl of beg, th n 88d 07m E 165 ft in E-W 1/4 line , th N 1d 35m E 1320 ft, th S 88d 07m W 165 ft, th S 1d 35m W 1320 ft to pl of beg, being part of W frl 1/2 of NE frl 1/4 5 acr
11 01 100 025

Township of Ypsilanti SN1725
FAIRVIEW HEIGHTS NO 1
E 5 ft of Lot 183
11 06 301 004

Township of Ypsilanti SN1819
DONOVANS CLOVERLAWN SUBDIVISION
Lots 28, 29 & S 10 ft of Lot 30
11 11 359 026

Township of Ypsilanti SN1902
WATSONIA PARK SUB
N 1/2 Lot 1246
11 14 482 024

Township of Ypsilanti SN1904
WATSONIA PARK SUBDIVISION
Lot 1064, also S 10 ft of vac alley
11 14 484 012

Township of Ypsilanti SN1944
SPRUCE FALLS
Lot 61
11 22 480 061

Township of Ypsilanti SN1967
HURON DAM SUBDIVISION
Lots 703 - 705 Incl & E 6 ft of Lot 706
11 24 136 012

L E A S E

THIS AGREEMENT made this 1 day of December, A.D., 1969, by and between THE CITY OF YPSILANTI, a Michigan Municipal Corporation, 304 North Huron Street, Ypsilanti, Michigan, hereinafter referred to as "Landlord", and THE BOYS' CLUB OF YPSILANTI, Inc., a Michigan Corporation, 227 North Grove Street, Ypsilanti, Michigan, hereinafter referred to as "Tenant".

WITNESSETH:

The Landlord, for and in consideration of the rents, covenants and agreements on the part of the Tenant to be paid and performed, has leased, and by these presents does lease to the Tenant, the following premises located at and known as 227 North Grove Street, Ypsilanti, Michigan, and more particularly described as follows:

LOT 60 of Gilbert's Addition for a term beginning on even date herewith and ending on the 1 day of DECEMBER, 2069, reserving rent as follows: the Tenant will pay monthly installments of One Hundred (\$100.00) Dollars per month on the 1st day of each and every month until the contemplated new structure hereinafter mentioned to be constructed on the premises by the Tenant, has been fully occupied; upon the total occupancy of the contemplated new structure, the monthly rent payments shall cease and the rent reserved during the remainder of the term above set forth shall be the lump sum of \$1,000.00, payable on the date of total occupancy of the new structure.

COVENANTS OF THE TENANT

The Tenant hereby hires said premises for the term aforesaid and covenants as follows:

RENT: That the Tenant will pay to the Landlord the rent reserved at the times and in the manner aforesaid.

USE: That the Tenant will use the demised premises for a boys club.

CONSTRUCTION AND ALTERATION: That the Tenant may at its option and at its own expense construct new improvements on the

Property and upon the completion of said new improvements, alter or demolish the improvements presently existing on the premises.

MAINTENANCE AND REPAIRS: That the Tenant will maintain at its own expense both the interior and the exterior of the buildings presently on the premises and any new buildings which may be constructed on the premises, including any and all repairs thereof.

-UTILITIES: That the Tenant will pay all utility charges of any nature, levied or payable during the term of said lease.

UNLAWFUL USE: That the Tenant will not make or suffer any unlawful, improper or offensive use of the premises or any use or occupancy thereof contrary to any law of the state or any ordinance of the city, now or hereafter made or which shall be injurious to any person or property or which shall be liable to endanger or affect any insurance on said buildings or to increase the premium thereof.

ALTERATIONS: That any alterations, additions or improvements made by the Tenant to the premises shall become and remain the property of the Landlord from the time they are affixed to the premises.

ASSIGNMENT: That the Tenant will not assign this lease nor sublet any part thereof without the written consent of the Landlord.

INDEMNITY AND LIABILITY INSURANCE AND FIRE INSURANCE:
That the Tenant will procure and maintain at its own expense public liability insurance covering said premises in such amount as shall be approved by the Landlord. That the Tenant further covenants that all property of any kind which may be on the demised premises during the term hereof shall be at the sole risk of the Tenant or those claiming under him and the Landlord shall not be liable to the Tenant or any other person whatsoever for injuries, loss or damage to any person or property in or upon said demised premises or upon the sidewalks, stairways and alleyways contiguous thereto. That the Tenant hereby covenants and

agrees to assume all liability for or on account of any injury, loss or damage above described and to save the Landlord harmless therefrom. Further, that the Tenant will procure and maintain at its own expense fire and extended coverage on said buildings or building located upon said premises in an amount to be approved by the Landlord.

SURRENDER OF THE PREMISES: That in the event of the termination of this lease for any reason whatsoever, the Tenant will peacefully surrender and deliver up the premises and every part thereof to the Landlord.

Further, it shall be the duty of the Tenant to maintain, during the term of this Lease, the exterior of Lot No. 60, Gilbert's Addition, and to see that said property is kept in a good state of repair, suitable for recreational purposes and kept in an attractive manner, as appropriate, beautifying shrubs and mode regularly.

COVENANTS OF THE LANDLORD

The Landlord hereby covenants as follows:

ENJOYMENT OF PREMISES: That so long as the Tenant shall pay the rent reserved and observe and perform all the terms and covenants in this lease on the Tenant's part to be performed, the Tenant shall and may peacefully have, hold and enjoy the premises with the appurtenances for and during the full term aforesaid.

MUTUAL COVENANTS OF THE LANDLORD AND TENANT:

The Landlord and Tenant hereby covenant and agree as follows:

DAMAGES BY FIRE OR CASUALTY: That if any building on the premises or any part thereof shall be damaged by fire or other unavoidable casualty, so that the same shall thereby be rendered unfit for use and occupation, then and in that event, the Tenant shall have the option of rebuilding the building or buildings and should the said Tenant elect not to rebuild, he shall forthwith pay the insurance proceeds to the Landlord and the estate hereby created may thereupon be terminated and cancelled.

USE BY LANDLORD AND PUBLIC: That the Landlord may utilize the building or buildings at a nominal cost at such time as the

Tenant is not utilizing said structures and facilities, subject to the approval of the Property Committee of the Tenant, which approval shall not be unreasonably denied or restricted, and said Landlord shall have precedence over other applicants for use of said facilities other than the Tenant.

It shall be further provided that the exterior, excluding the buildings on Lot 60, heretofore covered by this Lease, shall be available to the Landlord at no cost at such time as the Landlord is not utilizing ground, subject, however, to the approval of the Property Committee of the Tenant, which approval shall not be unreasonably denied or restricted and that the said Landlord shall have precedence over other applicants for the use of said facilities, other than the Tenant.

INSPECTION: That the Landlord shall have the right at all reasonable times to enter and examine the premises.

IN WITNESS WHEREOF, the parties have hereunto caused these presents to be executed on the day and year first above written.

In the Presence Of:

Edith L. Snelling
Edith L. Snelling
Roberta V. Miller
Roberta V. Miller

CITY OF YPSILANTI, A Michigan Municipal Corporation

By: *Timothy J. Dyer*
Timothy J. Dyer, Mayor
By: *Betty E. Fenker*
Betty E. Fenker, Clerk

BOYS' CLUB OF YPSILANTI, Inc., A Michigan Corporation

By: *Dolph E. Thorne*
Dolph E. Thorne, President
By: *Gerald E. Fulford*
Gerald E. Fulford, Secretary

Leonard K. Stark
Leonard K. Stark
Edith L. Snelling
Edith L. Snelling

STATE OF MICHIGAN
COUNTY OF WASHINGTON

On this 1st day of Dec., 1969, before me personally appeared TIMOTHY J. DYER, BETTY E. FENKER, DOLPH L. THORNE, and GERALD E. FULFORD, who being by me sworn, did execute the foregoing LEASE and acknowledge that they executed the same as their free act and deed.

W. J. Brown
Gerald E. Fulford
Edith L. Snelling

Notary Public
KIMBERLY BRONSON
10000 10000 ST.
WASHTENAW CO., MICHIGAN
PHONE 61670

Edith L. Snelling
EDITH L. SNELLING, NOTARY PUBLIC
WASHTENAW CO., MICHIGAN.
My Commission Expires 12-13-72

DRAFTED BY: Kenneth Bronson, Atty.
33 So. Huron St.
Ypsilanti, Mich: 48197

RECEIVED
FOR RECORD

FEB 17 3 25 PM '70

PATRICIA WELLS BARBY
REGISTER OF DEEDS
WASHINGTON COUNTY, MICH.

Board of Directors:

Regina T. Bell, vice Chair
R. Kevin Clinton
VACANT
Michael A. Finney, Chair
VACANT
VACANT
Scott Woosley



State of Michigan
LAND BANK FAST TRACK AUTHORITY

Michele Wildman
Interim Executive Director

~~May 22, 2014~~ *June 16, 2014*

Dear Applicant:

The Michigan Land Bank Fast Track Authority has received payment for the property you purchased. The Quitclaim Deed has been executed and the original is in the process of being recorded with the County Register of Deeds. We will send you the original, recorded quitclaim deed once we receive it from the county – a process that can take several weeks.

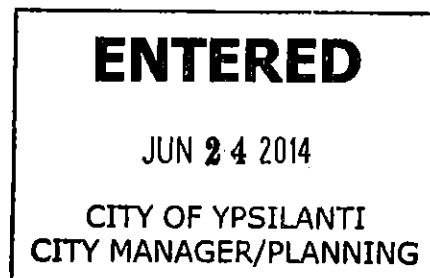
For your records, we have enclosed a copy of the executed, unrecorded quitclaim deed for the property. If there are any questions or concerns, please contact our offices at (517) 335-8212.

Sincerely,

A handwritten signature in cursive script, appearing to read "Penny Gutierrez".

Penny Gutierrez, Executive Assistant
Michigan Land Bank Fast Track Authority

Enclosures



QUITCLAIM DEED

THE STATE OF MICHIGAN, by the MICHIGAN LAND BANK FAST TRACK AUTHORITY, Grantor, whose address is P.O Box 30766, Lansing, Michigan, 48909, by authority of MCL 124.757, for One Dollar and No/100 Dollars (\$1.00), paid by City of Ypsilanti, a Municipal Corporation, Grantee, whose address is 1 South Huron Ypsilanti, Michigan 48197, quitclaims to Grantee the following described real Property (Property) in the City of Ypsilanti, County of Washtenaw, State of Michigan:

Town 03 South, Range 07 East, Section 9

Beg at ELY r/w ln of Park St at SW cor Lot 60 Gilbert's Addition to the city of Ypsilanti, th 669.09 ft alg arc to L, Radius = 1945.58 ft, Chord = S 52d 50m 0s E 665.80 ft, th S 0d 02m 30s W 45.57 ft alg WLY r/w line of Grove St, th 660.01 ft alg arc to R, Radius = 1986.74 ft, Chord = N 53d 51m 20s W 656.98 ft to ELY r/w line of Park St, th NLY alg said r/w 60.30 ft to pob. Pt of NE 1/4 .63 acr

11 09 111 003

N Grove St. Ypsilanti, MI 48197

Subject to all easements, encumbrances, and restrictions of record, if any, and including the following.

Grantor reserves to the State of Michigan all aboriginal antiquities including mounds, earthworks, forts, burial and village sites, mines, and other relics, on, within, or under the Property, with power to the State of Michigan, and all others acting under its authority, to enter the Property for any purpose related to exploring, excavating, and taking away aboriginal antiquities.

Grantor reserves to the State of Michigan all rights in minerals, coal, oil, and gas (excluding sand, gravel, or clay) on, within, or under the Property, with power to the State of Michigan, and all others acting under its authority, to enter the Property for any purpose related to accessing, exploring, mining, removing, and storing the minerals, coal, oil, and gas.

The Property may be located within the vicinity of farm land or a farm operation. Generally accepted agricultural and management practices which may generate noise, dust, odors, and other associated conditions may be used and are protected by the Michigan Right To Farm Act, MCL 286.471 *et seq.*

The terms of this conveyance apply to the administrators, successors, and assigns of the parties.

STATE OF MICHIGAN
LAND BANK FAST TRACK AUTHORITY

Michele Wildman
By: Michele Wildman

Its: Interim Executive Director

Date: 05/09/2014

State of Michigan)
)
County of Wayne)

This instrument was acknowledged before me on May 9, 2014, by Michele Wildman, Interim Executive Director of the Michigan Land Bank Fast Track Authority, a public body corporate and politic, on behalf of the State of Michigan.



Michigan Land Bank
Fast Track Authority

Adrienne G. Zeigler
Signature

Adrienne G Zeigler
Printed name exactly as it appears on application for commission as a notary public.

ADRIENNE G. ZEIGLER
NOTARY PUBLIC, STATE OF MI
COUNTY OF OAKLAND
MY COMMISSION EXPIRES Mar 28, 2016
ACTING IN COUNTY OF Wayne

Notary Public, State of Michigan, County of Oakland
My commission expires 3/28/2016
Acting in the County of Wayne

This Instrument Drafted By:
Kimberly Anderson, Property Analyst
Michigan Land Bank Fast Track Authority
P.O Box 30766
Lansing, Michigan 48909
(517) 335-8212

After Recording, Return To:
Michele Wildman, Interim Executive Director
Michigan Land Bank Fast Track Authority
P.O Box 30766
Lansing, Michigan 48909
(517) 335-8212

THIS INSTRUMENT IS EXEMPTED FROM
THE REAL ESTATE TRANSFER TAX ACT BY MCL 207.505(h)(i)
AND THE STATE REAL ESTATE TRANSFER TAX ACT BY MCL 207.526(h)(i)

Appendix H
Previous Environmental Reports and
Agency File Information

Karen Vorce

From: Andy Furton
Sent: Friday, September 25, 2015 9:43 AM
To: Karen Vorce
Subject: Fwd: Request for Disclosure of Official Files

Sent from my iPhone

Begin forwarded message:

From: DEQFOIA <DEQFOIA@michigan.gov>
Date: September 22, 2015 at 11:34:56 AM EDT
To: Andy Furton <FurtonA@aktpeerless.com>
Subject: Request for Disclosure of Official Files

Mr. Andy Furton
AKT Peerless Environmental
22725 Orchard Lake Road
Farmington, MI 48336

Dear Mr. Furton:

SUBJECT: Request for Disclosure of Official Files – Remediation and Redevelopment Division

This notice is issued in response to your request for information under the Freedom of Information Act, 1976 PA 442, as amended (FOIA), received on September 22, 2015. You have requested the following information: “220, 204, 223 North Park St., 206 and 103 North Grove St., Ypsilanti” (FOIA 6687-15).

Your request is granted in part and denied in part.

As to the partial granting of your request, all existing, non-exempt records located in the Jackson District Office responsive to your description of records were sent under separate cover.

As to the partial denial of your request, records do not exist for the following address(es):

220, 204, 223 North Park St., Ypsilanti

The purpose of the FOIA is to provide the public with access to existing, nonexempt public records of public bodies. Your request to examine or receive a copy of the documents described above is denied.

To the best of this public body's knowledge, information, and belief, the public record does not exist under the name given by the requester, or by another name reasonably known to the public body.

Under section 10 of the FOIA, the DEQ is obligated to inform you of the following:

- 1) Appeal this decision in writing to the Director of the Department of Environmental Quality, P.O. Box 30473, Lansing, Michigan 48909-7973. The writing must specifically state the word "appeal," and identify the basis for which the disclosure determination should be reversed. The Director of the DEQ, or his/her delegated designee, must respond to the appeal within 10 days of its receipt. Under unusual circumstances, the time for response to the appeal may be extended by 10 business days.
- 2) Commence a civil action in circuit court within 180 days after the date of the final determination to deny the request. If you prevail in such an action, the court is to award reasonable attorney fees, costs, and disbursements, and possible damages.

Susan Vorce, FOIA Coordinator
Department of Environmental Quality
800-662-9278
deqfoia@michigan.gov

The DEQ strives to continually improve its customer service to FOIA requestors. To provide input for improvements to the FOIA process, please complete this survey: <https://www.surveymonkey.com/s/foiaprocess>

Karen Vorce

From: Andy Furton
Sent: Wednesday, September 30, 2015 10:49 AM
To: Karen Vorce
Subject: Fwd: Request for Disclosure of Official Files

Sent from my iPhone

Begin forwarded message:

From: DEQFOIA <DEQFOIA@michigan.gov>
Date: September 30, 2015 at 10:01:12 AM EDT
To: Andy Furton <FurtonA@aktpeerless.com>
Subject: Request for Disclosure of Official Files

Mr. Andy Furton
AKT Peerless Environmental
22725 Orchard Lake Road
Farmington, MI 48336

Dear Mr. Furton:

SUBJECT: Request for Disclosure of Official Files –Water Resources Division

This notice is issued in response to your request for information under the Freedom of Information Act, 1976 PA 442, as amended (FOIA), received on September 22, 2015. You have requested the following information: "220 North Park St., Ypsilanti" (FOIA 6687-15).

The purpose of the FOIA is to provide the public with access to existing, nonexempt public records of public bodies. Your request to examine or receive a copy of the documents described above is denied.

To the best of this public body's knowledge, information, and belief, the public record does not exist under the name given by the requester, or by another name reasonably known to the public body.

Under section 10 of the FOIA, the DEQ is obligated to inform you of the following:

- 1) Appeal this decision in writing to the Director of the Department of Environmental Quality, P.O. Box 30473, Lansing, Michigan 48909-7973. The writing must specifically state the word "appeal," and identify the basis for which the disclosure determination should be reversed. The Director of the DEQ, or his/her delegated designee, must respond to the appeal within 10 days of its receipt. Under unusual circumstances, the time for response to the appeal may be extended by 10 business days.

2) Commence a civil action in circuit court within 180 days after the date of the final determination to deny the request. If you prevail in such an action, the court is to award reasonable attorney fees, costs, and disbursements, and possible damages.

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800-662-9278
deqfoia@michigan.gov

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Karen Vorce

From: Andy Furton
Sent: Friday, September 25, 2015 9:42 AM
To: Karen Vorce
Subject: Fwd: Request for Disclosure of Official Files

Sent from my iPhone

Begin forwarded message:

From: DEQFOIA <DEQFOIA@michigan.gov>
Date: September 23, 2015 at 8:53:10 AM EDT
To: Andy Furton <FurtonA@aktpeerless.com>
Subject: Request for Disclosure of Official Files

Mr. Andy Furton
AKT Peerless Environmental
22725 Orchard Lake Road
Farmington, MI 48336

Dear Mr. Furton:

SUBJECT: Request for Disclosure of Official Files – Resource Management Group

This notice is issued in response to your request for information under the Freedom of Information Act, 1976 PA 442, as amended (FOIA), received on September 22, 2015. You have requested the following information: "220, 204, 223 North Park St., 206 and 103 North Grove St., Ypsilanti" (FOIA 6687-15).

Your request is granted in part and denied in part.

As to the partial granting of your request, all existing, non-exempt records located in the Jackson District Office responsive to your description of records were made available for your review.

As to the partial denial of your request, records do not exist for the following address(es):

220, 204, 223 North Park St., 206 North Grove St., Ypsilanti

The purpose of the FOIA is to provide the public with access to existing, nonexempt public records of public bodies. Your request to examine or receive a copy of the documents described above is denied.

To the best of this public body's knowledge, information, and belief, the public record does not exist under the name given by the requester, or by another name reasonably known to the public body.

Under section 10 of the FOIA, the DEQ is obligated to inform you of the following:

- 1) Appeal this decision in writing to the Director of the Department of Environmental Quality, P.O. Box 30473, Lansing, Michigan 48909-7973. The writing must specifically state the word "appeal," and identify the basis for which the disclosure determination should be reversed. The Director of the DEQ, or his/her delegated designee, must respond to the appeal within 10 days of its receipt. Under unusual circumstances, the time for response to the appeal may be extended by 10 business days.
- 2) Commence a civil action in circuit court within 180 days after the date of the final determination to deny the request. If you prevail in such an action, the court is to award reasonable attorney fees, costs, and disbursements, and possible damages.

Susan Vorce, FOIA Coordinator
Department of Environmental Quality
800-662-9278
deqfoia@michigan.gov

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Karen Vorce

From: Andy Furton
Sent: Friday, September 25, 2015 9:42 AM
To: Karen Vorce
Subject: Fwd: Request for Disclosure of Official Files

Sent from my iPhone

Begin forwarded message:

From: DEQFOIA <DEQFOIA@michigan.gov>
Date: September 23, 2015 at 10:34:16 AM EDT
To: Andy Furton <FurtonA@aktpeerless.com>
Subject: Request for Disclosure of Official Files

Mr. Andy Furton
AKT Peerless Environmental
22725 Orchard Lake Road
Farmington, MI 48336

Dear Mr. Furton:

SUBJECT: Request for Disclosure of Official Files –Resource Management Group

This notice is issued in response to your request for information under the Freedom of Information Act, 1976 PA 442, as amended (FOIA), received on September 22, 2015. You have requested the following information: "301 North Park St., Ypsilanti" (FOIA 6688-15).

The purpose of the FOIA is to provide the public with access to existing, nonexempt public records of public bodies. Your request to examine or receive a copy of the documents described above is denied.

To the best of this public body's knowledge, information, and belief, the public record does not exist under the name given by the requester, or by another name reasonably known to the public body.

Under section 10 of the FOIA, the DEQ is obligated to inform you of the following:

- 1) Appeal this decision in writing to the Director of the Department of Environmental Quality, P.O. Box 30473, Lansing, Michigan 48909-7973. The writing must specifically state the word "appeal," and identify the basis for which the disclosure determination should be reversed. The Director of the DEQ, or his/her delegated designee, must respond to the appeal within 10 days of its receipt. Under unusual circumstances, the time for response to the appeal may be extended by 10 business days.

2) Commence a civil action in circuit court within 180 days after the date of the final determination to deny the request. If you prevail in such an action, the court is to award reasonable attorney fees, costs, and disbursements, and possible damages.

Susan Vorce, FOIA Coordinator
Department of Environmental Quality
800-662-9278
deqfoia@michigan.gov

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Karen Vorce

From: Andy Furton
Sent: Friday, September 25, 2015 9:42 AM
To: Karen Vorce
Subject: Fwd: Request for Disclosure of Official Files

Sent from my iPhone

Begin forwarded message:

From: DEQFOIA <DEQFOIA@michigan.gov>
Date: September 23, 2015 at 10:33:37 AM EDT
To: Andy Furton <FurtonA@aktpeerless.com>
Subject: Request for Disclosure of Official Files

Mr. Andy Furton
AKT Peerless Environmental
22725 Orchard Lake Road
Farmington, MI 48336

Dear Mr. Furton:

SUBJECT: Request for Disclosure of Official Files – Air Quality Division

This notice is issued in response to your request for information under the Freedom of Information Act, 1976 PA 442, as amended (FOIA), received on September 22, 2015. You have requested the following information: "220 North Park St., Ypsilanti" (FOIA 6687-15).

The purpose of the FOIA is to provide the public with access to existing, nonexempt public records of public bodies. Your request to examine or receive a copy of the documents described above is denied.

To the best of this public body's knowledge, information, and belief, the public record does not exist under the name given by the requester, or by another name reasonably known to the public body.

Under section 10 of the FOIA, the DEQ is obligated to inform you of the following:

- 1) Appeal this decision in writing to the Director of the Department of Environmental Quality, P.O. Box 30473, Lansing, Michigan 48909-7973. The writing must specifically state the word "appeal," and identify the basis for which the disclosure determination should be reversed. The Director of the DEQ, or his/her delegated designee, must respond to the appeal within 10 days of its receipt. Under unusual circumstances, the time for response to the appeal may be extended by 10 business days.

2) Commence a civil action in circuit court within 180 days after the date of the final determination to deny the request. If you prevail in such an action, the court is to award reasonable attorney fees, costs, and disbursements, and possible damages.

Susan Vorce, FOIA Coordinator
Department of Environmental Quality
800-662-9278
deqfoia@michigan.gov

The DEQ strives to continually improve its customer service to FOIA requesters. To provide input for improvements to the FOIA process, please complete this survey: <https://www.surveymonkey.com/s/foiaprocess>

Appendix H
Regulatory Agency File Information
(Omitted from BEA Document)

Appendix C

AKT Peerless' November 2022 Phase I ESA Update

PHASE I ENVIRONMENTAL SITE ASSESSMENT UPDATE

220 N. Park Street, Ypsilanti, Michigan

PREPARED FOR Renovare Ypsilanti Homes, LLC
42 Watson Street, Suite B
Detroit, Michigan 48201

and

City of Ypsilanti
1 S. Huron Street
Ypsilanti, Michigan 48197

FUNDED BY Downriver Community Conference Brownfield Consortium
15100 Northline Road
Southgate, Michigan 48195
USEPA Cooperative Agreement No. BF-00E02888

PROJECT # 10627F2-4-17

DATE November 18, 2022

EXECUTIVE SUMMARY I

1.0 INTRODUCTION.....1

 1.1 PURPOSE 1

 1.2 SCOPE OF SERVICES 2

 1.3 LIMITING CONDITIONS AND EXCEPTIONS 3

 1.4 SPECIAL TERMS AND CONDITIONS 3

 1.5 RELIANCE..... 3

2.0 USER PROVIDED INFORMATION3

 2.1 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS 3

 2.2 SPECIALIZED KNOWLEDGE OR EXPERIENCE OF THE USER 4

 2.3 ACTUAL KNOWLEDGE OF THE USER 4

 2.4 VALUE REDUCTION DUE TO CONTAMINATION 4

 2.5 COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION..... 5

 2.6 PRESENCE OR LIKELY PRESENCE OF CONTAMINATION 5

 2.7 REASON FOR PERFORMING THIS PHASE I ESA..... 5

3.0 SUBJECT PROPERTY DESCRIPTION5

 3.1 LOCATION AND LEGAL DESCRIPTION 5

 3.2 SUBJECT PROPERTY AND VICINITY CHARACTERISTICS..... 6

 3.3 DESCRIPTION OF STRUCTURES AND OTHER IMPROVEMENTS 6

 3.4 CURRENT USE OF THE SUBJECT PROPERTY 6

 3.5 UTILITIES AND MUNICIPAL SERVICES 6

 3.6 CURRENT USES OF THE ADJOINING PROPERTIES 7

 3.7 PREVIOUS ENVIRONMENTAL INVESTIGATIONS 8

 3.7.1 AKT Peerless’ October 2015 Phase I ESA..... 8

 3.7.2 AKT Peerless’ September 2021 Phase II ESA 8

 3.7.3 AKT Peerless’ September 2022 Phase I ESA 10

 3.7.4 G2’s July 2022 Report on Geotechnical Investigation 10

 3.7.5 AKT Peerless’ November 2022 Supplemental Phase II ESA..... 11

4.0 RECORDS REVIEW.....12

 4.1 STANDARD ENVIRONMENTAL RECORD RESOURCES..... 12

 4.2 REGULATORY AGENCY FILE AND RECORDS REVIEW 13

 4.2.1 Michigan Department of Licensing and Regulatory Affairs (LARA) 13

 4.2.2 EGLE Remediation and Redevelopment Division (RRD) 13

 4.2.3 EGLE Materials Management Division (MMD)..... 14

Table of Contents (continued)



4.3	ADDITIONAL ENVIRONMENTAL RECORD SOURCES	15
5.0	INTERVIEWS	15
5.1	INTERVIEW WITH SUBJECT PROPERTY OWNER	15
5.2	INTERVIEW WITH KEY SITE MANAGER	15
5.3	INTERVIEW WITH SUBJECT PROPERTY OCCUPANTS AND OPERATORS.....	15
5.4	INTERVIEW(S) WITH OTHERS	15
6.0	SUBJECT PROPERTY RECONNAISSANCE	15
6.1	METHODOLOGY AND LIMITING CONDITIONS	15
6.2	GENERAL SUBJECT PROPERTY SETTING AND OPERATIONS	16
6.3	OBSERVATIONS.....	16
6.3.1	Hazardous Substances and Petroleum Products	16
6.3.2	Storage Tanks.....	16
6.3.3	Strong, Pungent, or Noxious Odors	16
6.3.4	Unidentified Substance Containers	16
6.3.5	Potential PCB Containing Items	16
6.3.6	Interior Staining/Corrosion	17
6.3.7	Drains and Sumps	17
6.3.8	Water/Wastewater Discharges.....	17
6.3.9	Standing Water, Pools, Waste Pits, Ponds, and Lagoons	17
6.3.10	Solid Waste Dumping/Landfills	17
6.3.11	Stained Soil, Stressed Vegetation, Stained Pavement	17
6.3.12	Well and Septic Systems	17
6.3.13	Other Observations	17
6.3.14	Adjoining Properties.....	18
6.4	NON-ASTM STANDARD PRACTICE E 1527 SCOPE CONSIDERATIONS	18
7.0	FINDINGS, OPINIONS, AND CONCLUSIONS	18
7.1	RECOGNIZED ENVIRONMENTAL CONDITIONS	18
7.2	CONTROLLED RECOGNIZED ENVIRONMENTAL CONDITIONS	20
7.3	HISTORICAL RECOGNIZED ENVIRONMENTAL CONDITIONS	20
7.4	DE MINIMIS CONDITIONS	20
7.5	SIGNIFICANT DATA GAPS.....	20
7.6	OTHER NOTABLE ENVIRONMENTAL CONSIDERATIONS	20
8.0	DEVIATIONS	20
9.0	PROJECT RESOURCES AND REFERENCES	21
10.0	SIGNATURES OF ENVIRONMENTAL PROFESSIONALS	21

QUALIFICATIONS

FIGURES

Figure 1 Topographic Location Map
Figure 2 Subject Property Map

APPENDICES

Appendix A Legal Description and Parcel Map
Appendix B Reconnaissance Photographs
Appendix C AKT Peerless' November 2022 Supplemental Phase II ESA
Appendix D Standard Environmental Record Database Report

PHASE I ENVIRONMENTAL SITE ASSESSMENT UPDATE

220 N. Park Street, Ypsilanti, Michigan
AKT Peerless Project No. 10627F2-4-17

Executive Summary

On behalf of Downriver Community Conference Brownfield Consortium (DCCBC; Client), City of Ypsilanti (current subject property owner), and Renovare Ypsilanti Homes, LLC (prospective subject property owner; User), AKT Peerless conducted a Phase I Environmental Site Assessment (ESA) Update of the subject property as described below in accordance with United States Environmental Protection Agency (USEPA) Standards and Practices for All Appropriate Inquiries [(AAI), 40 Code of Federal Regulations (CFR) Part 312] and ASTM International Standard Practice E 1527-21 (ASTM Standard Practice E 1527). This Phase I ESA Update also satisfies the good commercial and customary practices outlined in ASTM Standard Practice E 1527-13.

Subject Property Description

Address	220 N. Park Street, Ypsilanti, Washtenaw County, Michigan
Land Area	4.46 acres
Parcel ID Number	11-11-09-111-004
Number of Building(s)	Zero
Date(s) of Construction	Not applicable
Building Square Footage	Not applicable
Current Use	Undeveloped, vegetated land (i.e., maintained lawn, trees)
Current Occupants	Unoccupied
Past Use	Residential (in connection with an adjoining property), municipal/recreational
Adjoining Property Uses	North: Single- and multi-family residential East: Single-family residential; undeveloped land/remnant paved parking lot Southeast: Paved parking lot South: Industrial, light industrial West: Single-family residential; undeveloped land/remnant paved parking lot Northwest: Light industrial
Inferred Groundwater Flow Direction	Southwest

Approximate Groundwater Depth	According to a previous geotechnical report, shallow groundwater was identified at select soil boring locations advanced at the subject property. Where groundwater remained present following completion of drilling activities, static groundwater levels ranged from 7.5 feet below ground surface (bgs) to 13.5 feet bgs.
--------------------------------------	---

Recognized Environmental Conditions (RECs)

This assessment has revealed no evidence of known RECs in connection with the subject property, except for the following:

REC 1 - In October 2015, AKT Peerless completed a Phase I ESA of the subject property. AKT Peerless’ October 2015 Phase I ESA identified one on-site REC (i.e., surficial and shallow subsurface fill material of unknown origin) on the south-central portion of the subject property and four off-site RECs (i.e., current and/or historical light industrial land uses). In September 2021, AKT Peerless completed a Phase II ESA of the subject property evaluating these RECs. Soil contamination, including arsenic and selenium comingled with low-level polynuclear aromatic hydrocarbons (PNAs), was identified in the soil sample collected from soil boring location PS-SB-1 to evaluate the on-site REC at concentrations exceeding Part 201 Generic Residential Cleanup Criteria (RCC); contamination associated with the off-site RECs was not identified. In July 2022, G2 Consulting Group (G2) completed a geotechnical investigation of the subject property. Additional environmentally suspect fill material was identified at four of G2’s 18 geotechnical soil boring locations (i.e., soil boring locations B-1, B-10, B-12, and B-18).

To assist the prospective subject property owner’s Due Care decision-making with respect to the proposed redevelopment of the subject property for residential land use, AKT Peerless completed a Supplemental Phase II ESA of the subject property in November 2022 to (1) further evaluate soil contamination associated with on-site fill material of unknown origin on the south-central portion of the subject property (i.e., the PS-SB-1 delineation area) and (2) suspect fill material at geotechnical soil boring locations B-1, B-10, B-12, and B-18. Additional soil contamination, including arsenic, barium, chromium (total), lead, mercury, selenium, silver, zinc, acenaphthylene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, carbazole, dibenzo(a,h)anthracene, fluoranthene, naphthalene, and phenanthrene, was identified in one or more soil samples collected from the subject property at concentrations exceeding Part 201 Generic RCC.

Based on the results of AKT Peerless’ September 2021 Phase II ESA and November 2022 Supplemental Phase II ESA, the subject property meets the definition of a “facility,” as defined in Part 201 of the Natural Resources and Environmental Protection Act, Michigan Public Act 451 of 1994, as amended (NREPA). The “facility” status of the subject property represents an REC.

In AKT Peerless’ opinion, the environmental conditions previously identified in AKT Peerless’ October 2015 Phase I ESA, AKT Peerless’ September 2021 Phase II ESA, and G2’s July 2022 Report on Geotechnical Investigation have been adequately evaluated and no further investigation and/or assessment is warranted at this time.

As noted above, the subject property meets the definition of a “facility,” as defined in Part 201 of the NREPA. AKT Peerless recommends any future owner(s)/operator(s) prepare a Baseline Environmental

Assessment (BEA). Section 26(1)(c) of Part 201 provides certain liability protections to a person who becomes an owner or operator of a “facility” on, or after, June 5, 1995 if they comply with both of the following, or unless other defenses apply: a BEA is conducted prior to or within 45 days after the earlier of the date of purchase, occupancy, or foreclosure, and the owner or operator discloses the results of the BEA to Michigan Department of Environment, Great Lakes, and Energy (EGLE) Remediation and Redevelopment Division (RRD) and subsequent purchaser or transferee.

In addition, because the subject property meets the definition of a “facility,” the property owner is required to comply with Due Care obligations. Due Care obligations include:

- Undertaking measures to prevent exacerbation of existing contamination.
- Exercising Due Care by undertaking response activities to mitigate unacceptable exposure to hazardous substances, mitigate fire and explosion hazards due to hazardous substances, and allow for the intended use of the “facility” in a manner that protects health and safety.
- Taking reasonable precautions against the reasonably foreseeable acts or omissions of a third party and the consequences that could result from those acts or omissions.
- Provide notifications to EGLE and others in regard to mitigating fire and explosions hazards, discarded or abandoned containers, contamination migrating beyond “facility” boundaries, as applicable.
- Comply with any land use or resource use restrictions established or relied on in connection with response activities at the “facility.”
- Not impede the effectiveness or integrity of any land use or resource use restriction employed at the “facility” in connection with response activities.

Controlled Recognized Environmental Conditions (CRECs)

This assessment has revealed no evidence of known CRECs in connection with the subject property.

Historical Recognized Environmental Conditions (HRECs)

This assessment has revealed no evidence of known HRECs in connection with the subject property.

Significant Data Gaps (SDG)

AKT Peerless did not identify or encounter instances of significant data gaps during this Phase I ESA Update.

The Executive Summary above is an overview of the opinions and conclusions of this Phase I ESA Update and shall not be considered apart from the entire report, which contains the rationale and qualifications used by AKT Peerless in making the opinions and conclusions presented herein. Furthermore, non-ASTM Standard Practice E 1527 scope considerations, if any, are reported in Section 6.4 and other notable environmental considerations, if any, are reported in Section 7.6. These conditions are not included in this Executive Summary.

1.0 Introduction

On behalf of Downriver Community Conference Brownfield Consortium (DCCBC; Client), City of Ypsilanti (current subject property owner), and Renovare Ypsilanti Homes, LLC (prospective subject property owner; User), AKT Peerless conducted a Phase I Environmental Site Assessment (ESA) Update of the property located at 220 N. Park Street in Ypsilanti, Washtenaw County, Michigan (the subject property).

This Phase I ESA Update was conducted in accordance with: (1) United States Environmental Protection Agency (USEPA) *Standards and Practices for All Appropriate Inquiries* [(AAI), 40 Code of Federal Regulations (CFR) Part 312]; and (2) guidelines established by ASTM International in the *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process / Designation E 1527-21* (ASTM Standard Practice E 1527). This Phase I ESA Update also satisfies the good commercial and customary practices outlined in ASTM Standard Practice E 1527-13.

ASTM Standard Practice E 1527 states, “Subject to Section 4.8 and the User’s Responsibilities set forth in Section 6, an *environmental site assessment* meeting or exceeding this practice and for which the information was collected or updated within one year prior to the date of acquisition of the *property* or (for transactions not involving an acquisition) the date of the intended transaction may be used provided that the following components of the inquiries were conducted or updated within 180 days of the date of purchase or the date of the intended transaction:

- Interviews with owners, operators, and occupants;
- Searches for recorded environmental cleanup liens;
- Reviews of federal, tribal, state, and local government records;
- Visual inspections of the property and of adjoining properties; and
- The declaration by the environmental professional responsible for the assessment or update.”

Nothing in this report constitutes a legal opinion or legal advice. AKT Peerless has not made an independent determination as to whether the prospective subject property owner satisfies *User* obligations to establish a Landowner Liability Protection (LLP) defense under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980. In accordance with ASTM Standard Practice E 1527, a *User* is the party seeking to use ASTM Standard Practice E 1527 to complete an environmental site assessment of the subject property. A *User* may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager. Furthermore, a *User* seeking to establish an LLP defense under CERCLA, and USEPA Brownfield Assessment and Characterization grantees, have specific obligations for completing a successful application of this practice. AKT Peerless’ scope of work does not include an evaluation or completion of these specific *User* obligations as described in Section 6 of ASTM Standard Practice E 1527, unless otherwise noted.

1.1 Purpose

This Phase I ESA Update was conducted to evaluate the current environmental conditions of the subject property and adjoining properties in an effort to update specific components of the inquiries that were conducted greater than 180 days prior and within one year of the Phase I ESA completed by AKT Peerless between May 10, 2022 and September 13, 2022.

The purpose of this Phase I ESA Update was to evaluate the current and historical conditions of the subject property in an effort to identify *recognized environmental conditions (RECs)*¹, *controlled recognized environmental conditions (CRECs)*², *historical recognized environmental conditions (HRECs)*³, and *de minimis conditions*⁴ in connection with the subject property. Moreover, this practice may permit certain users of this Phase I ESA Update to satisfy environmental due diligence requirements to qualify for the bona fide prospective purchaser, contiguous landowner, or innocent landowner limitations under CERCLA, the Superfund Amendments and Reauthorization Act (SARA) of 1986, and the Small Business Liability and Brownfields Revitalization Act (Brownfields Amendments) of 2002. This Phase I ESA Update is intended to reduce, but not eliminate, uncertainty regarding the potential for environmental conditions in connection with the subject property.

1.2 Scope of Services

AKT Peerless' scope-of-services is based on its work order PF-31464, dated November 2, 2022, and the terms and conditions of that agreement. This Phase I ESA Update included the following:

- An inquiry of environmental conditions by an environmental professional.
- A review of specialized knowledge reported by the User.
- A review of public records, including those maintained by federal, state, tribal, and local government agencies (as appropriate).
- A review of reasonably ascertainable agency file information, dated since the previous Phase I ESA (if any).
- Discussion regarding compliance with Activity and Use Limitations (AULs), if any.
- Interviews with regulatory officials and personnel associated with the subject property.
- A reconnaissance of the subject property and adjoining properties.
- A review of previous environmental reports describing investigations and assessments of the subject property to evaluate changes in the respective development and use of the subject property and adjoining properties, if any, that have occurred since the completion of AKT Peerless' previous Phase I ESA.

¹ ASTM Standard Practice E 1527-21 defines the term REC 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.

² ASTM Standard Practice E 1527-21 defines the term CREC as a REC affecting the subject property resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority or authorities (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations or other property use limitations).

³ ASTM Standard Practice E 1527-21 defines the term HREC 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). A HREC is not a REC.

⁴ ASTM Standard Practice E 1527-21 defines the term de minimis condition as a condition related to a *release* that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. A condition determined to be a de minimis condition is not a REC nor a CREC.

1.3 Limiting Conditions and Exceptions

During the course of a Phase I ESA, limiting conditions, data failures, or data gaps, may prevent adherence to certain aspects of ASTM Standard Practice E 1527. In such cases, the limiting factors are discussed in the appropriate sections of this report.

Should additional information become available to the User that differs significantly from our understanding of conditions presented in this report, AKT Peerless requests that such information be forwarded immediately to our attention, so that we may reassess the conclusions provided herein and amend this project's scope of services as necessary and appropriate.

1.4 Special Terms and Conditions

To the best of AKT Peerless' knowledge, no special terms or conditions, or Client-imposed constraints, apply to the preparation of this Phase I ESA Update.

1.5 Reliance

AKT Peerless performed this Phase I ESA Update for the benefit of its Client, DCCBC, City of Ypsilanti (current subject property owner), and Renovare Ypsilanti Homes, LLC (prospective subject property owner; User). AKT Peerless acknowledges that these parties may rely on the contents and conclusions presented in this report. Unless stated otherwise in writing, AKT Peerless makes no other warranty, representation, or extension of reliance upon the findings of this report to any other entity or third party. The information and opinions presented in this report are for the exclusive use of the Client, City of Ypsilanti, and Renovare Ypsilanti Homes, LLC. No distribution to or reliance by other parties may occur without the express written permission of the Client, City of Ypsilanti, Renovare Ypsilanti Homes, LLC, or AKT Peerless. AKT Peerless will not distribute this report without written consent from the Client, City of Ypsilanti, or Renovare Ypsilanti Homes, LLC, or as required by law or by a Court order.

2.0 User Provided Information

In order to qualify for one of the LLPs offered by the Small Business Liability Relief and the Brownfields Amendments, a *User* must conduct certain inquiries as described in 40 CFR 312. If the User intends to use ASTM Standard Practice E 1527 to establish an LLP defense under CERCLA, then AAI requires that certain tasks be performed by – or on behalf of – that party. As appropriate, these inquiries must also be conducted by USEPA Brownfield Assessment and Characterization grantees. While such information is not required to be provided to the Environmental Professional, AKT Peerless requests this information from the User in the form of a Questionnaire, Document Request Form, and Interviews, as such information can assist the Environmental Professional in identifying environmental conditions.

AKT Peerless interviewed Ms. Shannon Morgan, Manager of Renovare Ypsilanti Homes, LLC. The following subsections summarize the information and responses provided by the User.

2.1 Environmental Liens or Activity and Use Limitations

ASTM Standard Practice E 1527 Section 6.2 and AAI (40 CFR 312.20, 25, and 26) require that Users search recorded title and judicial records for registered Environmental Liens and/or AULs. The User may rely on (1) transaction-related title insurance documentation (e.g., preliminary title reports and title commitments) or (2) title search information reports (e.g., conditions of title, title abstracts, and

AUL/Environmental Lien reports). The results of the User's search should be communicated to the Environmental Professional. This search is in addition to the review of environmental liens and AULs registries (if any) conducted by the Environmental Professional.

The User did not provide title insurance documentation or title search information, and the User did not report: (1) environmental cleanup liens against the subject property that are filed or recorded under federal, tribal, state, or local law; (2) AULs, such as engineering controls, land use restrictions or institutional controls, that are in place at the subject property and/or have been filed or recorded in a registry under federal, tribal, state, or local law; or (3) recorded land title or judicial records.

2.2 Specialized Knowledge or Experience of the User

ASTM Standard Practice E 1527 Section 6.3 and AAI (40 CFR 312.28) require that the User take into account their specialized knowledge to identify conditions indicative of releases or threatened releases associated with the subject property, and suggests this information be communicated to the Environmental Professional before the site reconnaissance.

The User did not report specialized knowledge or experience regarding the environmental condition of the subject property, except as conveyed in the following reports, which document previous environmental and geotechnical investigations at the subject property:

- Phase I ESA, 220 N. Park Street, prepared in October 2015 by AKT Peerless on behalf of City of Ypsilanti;
- Phase II ESA, 220 N. Park Street, prepared in September 2021 by AKT Peerless on behalf of DCCBC and City of Ypsilanti;
- Phase I ESA, 220 N. Park Street, prepared in September 2022 by AKT Peerless on behalf of DCCBC, City of Ypsilanti, and Renovare Ypsilanti Homes, LLC;
- Report on Geotechnical Investigation, 220 North Park Street Planned Unit Development (PUD), prepared in July 2022 by G2 Consulting Group (G2) on behalf of Renovare Development; and
- Supplemental Phase II ESA, prepared in November 2022 by AKT Peerless on behalf of Renovare Ypsilanti Homes, LLC.

Refer to Section 3.7 for a summary and discussion of these environmental and geotechnical investigations.

2.3 Actual Knowledge of the User

ASTM Standard Practice E 1527 Section 6.4 suggests that the User communicate actual knowledge of any environmental lien or AULs associated with the subject property to the Environmental Professional, and suggests this information be communicated to the Environmental Professional before the site reconnaissance.

The User did not report actual knowledge of environmental liens or AULs associated with the subject property.

2.4 Value Reduction Due to Contamination

For transactions involving the purchase of commercial real estate, ASTM Standard Practice E 1527 Section 6.5 and AAI (40 CFR 312.29) require the User to consider the relationship of the purchase price

to the fair market value of the subject property as an indicator of potential contamination and make a written record of that explanation.

The User did not report knowledge of, or reason to anticipate, a reduction in the value of the subject property for environmental issues.

2.5 Commonly Known or Reasonably Ascertainable Information

ASTM Standard Practice E 1527 Section 6.6 and AAI (40 CFR 312.30) require the User to take into account commonly known or reasonably ascertainable information within the local community about the subject property.

The Client did not report such commonly known or reasonably ascertainable information, except as described in Section 2.2.

2.6 Presence or Likely Presence of Contamination

ASTM Standard Practice E 1527 Section 6.7 and AAI (40 CFR 312.31) require the User to consider the degree of obviousness of the presence or likely presence of contamination at the subject property, and the ability to detect the contamination by appropriate investigation.

The User did not report on the degree of obviousness of the presence or likely presence of contamination at the subject property or the ability to detect the contamination by appropriate investigations, except as described in Section 2.2.

2.7 Reason for Performing this Phase I ESA

ASTM Standard Practice E 1527 requires that the User provide the Environmental Professional with the reason for performing the Phase I ESA Update.

The User reported that this Phase I ESA Update was conducted as part of environmental due diligence related to the User's pending acquisition of the subject property.

3.0 Subject Property Description

3.1 Location and Legal Description

The subject property is located in the northeast ¼ of Section 9 (Township 3 South, Range 7 East), Ypsilanti, Washtenaw County, Michigan. The subject property is bordered to the west by N. Park Street, to the north by High Street, to the east by N. Grove Street, and to the south by a Norfolk Southern Railway railroad. See the following table for additional subject property details:

Subject Property Identifiers

Address	Tax Identification Number	Owner of Record	Approximate Acreage
220 N. Park Street	11-11-09-111-004	City of Ypsilanti	4.46 acres

The subject property may have been historically associated with the addresses 227 N. Grove Street (i.e., at a time when the subject property may have been used in conjunction with the Gilbert Community House at that address) and 221 N. Grove Street (i.e., the original address of the Boys & Girls Club building, which was constructed in the 1970s and demolished in 2016).

Refer to Figure 1, Topographic Location Map, and Figure 2, Subject Property Map. The legal description and a parcel map of the subject property are presented in **Appendix A**. Photographs taken during AKT Peerless’ subject property reconnaissance are provided in **Appendix B**.

3.2 Subject Property and Vicinity Characteristics

The subject property is currently zoned PUD and is located in an area of Ypsilanti that is characterized by residential, commercial, and light industrial properties, surface roadways, municipal sanitary sewer and water services, and electric and natural gas utilities.

3.3 Description of Structures and Other Improvements

The subject property consists of undeveloped land (i.e., maintained lawn, trees) and does not contain structures or other significant improvements.

3.4 Current Use of the Subject Property

The subject property currently consists of undeveloped, vegetated land (i.e., maintained lawn, trees) and is not used for a significant or obvious purpose.

3.5 Utilities and Municipal Services

AKT Peerless identified the type and supplier of utilities provided to the subject property. These services are described in the following table:

Subject Property Utility Data

Utility / Service	Type	Utility Company or Municipality	Comments/Historical Services
Heat	Natural Gas	DTE Energy	Natural gas service is available to the area of the subject property.
Potable water	Municipal	Ypsilanti Community Utilities Authority (YCUA)	Municipal drinking water service has been available to the subject property since at least 1916.
Electricity	Electric lines	DTE Energy	Electric service is available to the subject property.
Sewage disposal	Municipal	YCUA	Municipal sanitary sewer service is currently available to the area of the subject property.
Storm water	Municipal	City of Ypsilanti	Stormwater utilities are available to the area of the subject property.

AKT Peerless’ review of readily available standard and other historical sources provided only limited information regarding potable water and sanitary sewer services or systems utilized by the former structure present on the subject property between the early 1970s and 2016. As specific connection dates were not identified, the former structure present on the subject property might have utilized on-site potable water well(s) and/or private septic system(s) prior to connection to municipal services. However, it is likely that these features, if any, would have been identified and removed at the time of connection to municipal services.

AKT Peerless’ review of readily available standard and other historical sources also provided only limited information regarding heating fuel source(s) utilized by the former structure present on the subject property between the early 1970s and 2016. A specific connection date to natural gas service was not identified during this Phase I ESA Update. The potential for the past use of fuel oil underground storage tanks (USTs) on the subject property was therefore considered. However, based on: (1) review of available information, (2) observations during the subject property reconnaissance, and (3) lack of documentation indicating the presence of heating oil USTs on the subject property, it is AKT Peerless’ opinion that, although this missing information represents a data failure, all appropriate inquiry has been performed to reduce uncertainty regarding environmental concerns associated with the potential use of heating oil USTs. Therefore, no further investigation of potential heating oil USTs is warranted at this time.

3.6 Current Uses of the Adjoining Properties

The following table describes the current uses and/or occupants of the adjoining properties, as identified during this Phase I ESA Update:

Adjoining Property Data

Direction	Address	Current Use / Occupant
North	302 N. Park Street	Single-family residential / Not identified
	313 High Street	Single-family residential / Not identified
	315 High Street	Single-family residential / Not identified
	227 N. Grove Street	Multi-family residential (Gilbert Mansion) / Not identified
East	216 N. Grove Street	Single-family residential / Not identified
	410 Locust Street	Single-family residential / Not identified
	214 N. Grove Street	Single-family residential / Not identified
	212 N. Grove Street	Single-family residential / Not identified
	208 N. Grove Street	Single-family residential / Not identified
	206 N. Grove Street	Undeveloped land, remnant paved parking lot / Unoccupied
Southeast	106 N. Grove Street	Paved parking lot / Marsh Plating Corp.
South	103 N. Grove Street	Light industrial / Marsh Plating Corp.
	204 N. Park Street	Light industrial / Not identified
West	209 N. Park Street	Single-family residential / Not identified

Direction	Address	Current Use / Occupant
	213 N. Park Street	Single-family residential / Not identified
	223 N. Park Street	Undeveloped land, remnant paved parking lot / Unoccupied
Northwest	301 N. Park Street	Light industrial / Great Lakes Design, LLC

3.7 Previous Environmental Investigations

3.7.1 AKT Peerless' October 2015 Phase I ESA

In October 2015, AKT Peerless completed a Phase I ESA of the subject property. The Phase I ESA was conducted in accordance with USEPA Standards and Practices for AAI (40 CFR Part 312) and ASTM Standard Practice E 1527-13. At the time of the assessment, the subject property was improved with one two-story commercial building formerly used as the Boys and Girls Club recreation center (i.e., the former Club building) and associated exterior baseball diamond, basketball court, and landscaped and parking areas. The Club building was unoccupied and not used for a significant or obvious purpose at that time.

AKT Peerless identified the following RECs:

- During AKT Peerless' site reconnaissance, fill material (soil and concrete) was observed within the thick vegetation located along the southern property boundary. The nature and extent of this fill material is unknown.
- A southeastern adjoining property (206 N. Grove Street) was identified as an oil distributor which utilized a bulk oil storage yard from the mid-1950s until the late 1970s. This site was also listed as a State Hazardous Waste Site (SHWS) and was identified on the Baseline Environmental Assessment (BEA) database. In AKT Peerless' opinion, the past use of this adjoining property and identification on the SHWS and BEA databases represents an REC.
- A southern adjoining property (204 N. Park Street) was utilized as a coal storage yard and bulk oil and gasoline storage facility in the 1920s until the early 1970s. No information regarding any current or former USTs, aboveground storage tanks (ASTs), installation and removal dates, business practices, or other environmental data was identified. In AKT Peerless' opinion, the past use of this adjoining property represents an REC.
- A southern adjoining property (103 N. Grove Street) has been utilized for various industrial operations (including manufacturing, machine shop, foundry, and plating operations) from at least 1916 until the present day. This site was also listed on the Resource Conservation and Recovery Act (RCRA) and Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) databases with multiple hazardous waste violations identified. In AKT Peerless' opinion, the current and past use of this adjoining property represents an REC.
- A western adjoining property (223 N. Park Street) historically operated as a coal storage yard from at least 1916 until the mid-1960s. In AKT Peerless' opinion, the past use of the western adjoining property represents an REC.

3.7.2 AKT Peerless' September 2021 Phase II ESA

To further evaluate the RECs identified in its October 2015 Phase I ESA, AKT Peerless completed a Phase II ESA of the subject property in September 2021. At the time of the assessment, the subject property consisted of undeveloped, vegetated land (i.e., maintained lawn, trees), consistent with current

conditions (the former Club building and exterior basketball court and baseball diamond features were demolished in 2016).

The Phase II ESA included: 1) the advancement of four soil borings (PS-SB-1 through PS-SB-4), and (2) the collection of five soil samples and one duplicate soil sample. The soil samples were submitted for laboratory analyses of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polynuclear aromatic hydrocarbons (PNAs), Michigan Ten Metals,⁵ arsenic, cadmium, chromium, lead, hexavalent chromium, and/or polychlorinated biphenyls (PCBs). Groundwater was not encountered during subsurface investigation activities.

The following table summarizes each REC, the site investigation activities performed to address each REC, and the laboratory parameters used to address each REC.

Summary of Investigation Activity

REC #	Environmental Concern	Investigation Activity	Analytical Parameters
1	Fill material on the southern portion of the subject property.	PS-SB-1 (1'-3') Soil Duplicate (PS-SB-1, 1'-3')	VOCs, SVOCs, Michigan Ten Metals, PCBs, and hexavalent chromium
2	Historical use of the southeastern adjoining property (206 N. Grove Street) as an oil distributor/bulk oil storage yard.	PS-SB-2 (17'-19')	VOCs, SVOCs, Michigan Ten Metals, and hexavalent chromium
3	Historical use of the southern adjoining property (204 N. Park Street) as a coal storage yard and bulk oil and gasoline facility.	PS-SB-1 (10'-12') PS-SB-3 (16'-18')	VOCs, PNAs, arsenic, cadmium, chromium, lead, and hexavalent chromium
4	Current and historical use of the southern adjoining property (103 N. Grove Street) for industrial operations.	PS-SB-1 (10'-12') PS-SB-2 (17'-19')	VOCs, SVOCs, PNAs, Michigan Ten Metals, arsenic, cadmium, chromium, lead, and/or hexavalent chromium
5	Historical use of the western adjoining property (223 N. Park Street) as a coal storage yard.	PS-SB-4 (6'-8')	VOCs, PNAs, arsenic

The results of the investigation indicated the following:

- Arsenic was detected in the shallow subsurface soil sample and soil duplicate sample collected from soil boring location PS-SB-1, which was advanced in part to evaluate on-site fill material, at concentrations exceeding Part 201 Generic Residential Cleanup Criteria (RCC), including Groundwater Surface Water Interface Protection (GSIP) and Drinking Water Protection (DWP) criteria.

⁵ Michigan Ten Metals include arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, and zinc.

- Selenium was also detected in the shallow subsurface soil sample collected from soil boring location PS-SB-1, which was advanced in part to evaluate on-site fill material, at a concentration exceeding the Part 201 Generic GSIP cleanup criterion.
- Select PNAs were also detected in the shallow subsurface soil sample and soil duplicate sample collected from soil boring location PS-SB-1 at concentrations above analytical laboratory method detection limits (MDLs), but below Part 201 Generic RCC.

3.7.3 AKT Peerless' September 2022 Phase I ESA

In September 2022, AKT Peerless completed a Phase I ESA of the subject on behalf of Renovare Ypsilanti Homes, LLC and City of Ypsilanti in accordance with USEPA Standards and Practices for AAI (40 CFR Part 312) and the scope and limitations of ASTM Standard Practice E 1527-21. This Phase I ESA also satisfied the good commercial and customary practices outlined in ASTM Standard Practice E 1527-13. At the time of the assessment, the subject property consisted of undeveloped, vegetated land (i.e., maintained lawn, trees) and was not used for a significant or obvious purpose.

The following REC was identified:

- In September 2021, AKT Peerless completed a Phase II ESA of the subject property to evaluate RECs (i.e., one on-site REC and four off-site RECs) previously identified in AKT Peerless' October 2015 Phase I ESA of the subject property. Soil contamination, including arsenic and selenium comingled with low-level PNAs, was identified in the soil sample collected to evaluate the on-site REC (i.e., surficial and shallow subsurface fill material of unknown origin) on the south-central portion of the subject property. (Contamination associated with the off-site RECs was not identified.) The concentrations of arsenic and selenium exceed Part 201 Generic RCC, thus qualifying the subject property as a "facility," as defined in Part 201 of the Natural Resources and Environmental Protection Act, Michigan Public Act 451 of 1994, as amended (NREPA). The "facility" status of the subject property therefore represents an REC.

3.7.4 G2's July 2022 Report on Geotechnical Investigation

Following completion of AKT Peerless' September 2022 Phase I ESA, AKT Peerless was provided a copy of a Report on Geotechnical Investigation prepared by G2 in July 2022 in connection with the proposed redevelopment of the subject property with residential dwellings by Renovare Ypsilanti Homes, LLC.

During the geotechnical investigation, G2 advanced 18 soil borings at the subject property (B-1 through B-18). Fill material was encountered in 14 of the 18 soil borings to maximum depths ranging from one to eight feet below ground surface (bgs). The fill material was underlain by native soils (e.g., sands, silts, clays). G2 recommended traditional spread and strip footings for the proposed residential dwellings, with footings extending through fill material, where present, to bear on the underlying native soils. Soil samples were not collected for laboratory analyses of environmental parameters during G2's geotechnical investigation.

In connection with Renovare Ypsilanti Homes, LLC's Act 381 Work Plan (see Section 4.2.2), Michigan Department of Environment, Great Lakes, and Energy (EGLE) Remediation and Redevelopment Division (RRD) reviewed G2's Report on Geotechnical Investigation and identified the fill material encountered at geotechnical soil boring locations B-1, B-10, B-12, and B-18 as environmentally suspect based on color, the presence of demolition debris, etc. EGLE RRD relayed these considerations to AKT Peerless and

Renovare Ypsilanti Homes, LLC in advance of the supplemental subsurface investigation summarized and discussed in Section 3.7.5 below.

3.7.5 AKT Peerless’ November 2022 Supplemental Phase II ESA

To further evaluate environmental conditions identified during AKT Peerless’ September 2021 Phase II ESA and G2’s July 2022 Report on Geotechnical Investigation, AKT Peerless completed a Supplemental Phase II ESA of the subject property in November 2022. At the time of the assessment, the subject property consisted of undeveloped, vegetated land (i.e., maintained lawn, trees), consistent with current conditions.

The Supplemental Phase II ESA include: 1) the advancement of 18 soil borings (DB-1 through DB-18, B-1-E, B-10-E, B-12-E, and B-18-E), and 2) the collection of 18 soil samples. The soil samples were submitted for laboratory analyses of VOCs, SVOCs, Michigan Ten Metals, and PCBs. Groundwater was not encountered during supplemental subsurface investigation activities.

The following table summarizes each environmental condition, the site investigation activities performed to address each environmental condition, and the laboratory parameters used to address each environmental condition.

Summary of Investigation Activity

Environmental Condition	Investigation Activity	Analytical Parameters
Soil contamination associated with on-site fill material of unknown origin on the south-central portion of the subject property (i.e. in the vicinity of soil boring location PS-SB-1)	DB-1, DB-2, DB-3, DB-4, DB-5, DB-6, DB-7, DB-8, DB-9, DB-10, DB-11, DB-12, DB-13, DB-14, and B-18-E	VOCs, SVOCs, Michigan Ten Metals, and PCBs
Environmentally suspect fill material previously identified in four geotechnical soil borings (i.e., B-1, B-10, B-12, and B-18)	B-1-E, B-10-E, B-12-E, and B-18-E	VOCs, SVOCs, Michigan Ten Metals, and PCBs

The results of the supplemental subsurface investigation indicate the following:

- Arsenic, barium, chromium (total), lead, mercury, selenium, silver, and/or zinc were detected in soil samples collected from one or more of the soil borings advanced within the PS-SB-1 delineation area on the south-central portion of the subject property (i.e., DB-1 through DB-14 and B-18-E) at concentrations exceeding Part 201 Generic RCC. In addition, acenaphthylene, benzo(a)anthracene, benzo(b)pyrene, benzo(b)fluoranthene, carbazole, dibenzo(a,h)anthracene, fluoranthene, naphthalene, and/or phenanthrene were detected in soil samples collected from select soil borings advanced within the PS-SB-1 delineation area (i.e., DB-10, DB-11, DB-12) at concentrations exceeding Part 201 Generic RCC. The concentrations of arsenic, lead, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene detected in select soil samples collected from the PS-SB-1 delineation area on the south-central portion of the subject property exceed Part 201 Generic RCC for direct contact (DC); otherwise, the target parameters listed above were detected at concentrations exceeding Part 201 Generic RCC for DWP and/or GSIP.

- Arsenic, chromium (total), mercury, and/or selenium were detected in the soil borings advanced to replicate geotechnical soil boring locations outside of the PS-SB-1 delineation area on the south-central portion of the subject property (i.e., B-1-E, B-10-E, and B-12-E) at concentrations exceeding Part 201 Generic RCC for DWP and/or GSIP. No target parameters were detected at concentrations exceeding Part 201 Generic RCC for DC in soil samples collected from soil borings advanced outside of the PS-SB-1 delineation area on the south-central portion of the subject property.

Based on analytical laboratory results associated with AKT Peerless' September 2021 Phase II ESA and November 2022 Supplemental Phase II ESA, the subject property meets the definition of a "facility," as defined in Part 201 of the NREPA. The "facility" status of the subject property therefore represents an REC.

A copy of AKT Peerless' November 2022 Supplemental Phase II ESA is provided in **Appendix C**.

4.0 Records Review

4.1 Standard Environmental Record Resources

AKT Peerless retained a third-party vendor to provide current environmental database information compiled by a variety of federal and state regulatory agencies. The purpose of obtaining these data was to evaluate potential environmental risks associated with the subject property, adjoining properties, and nearby sites that are: (1) identified on target lists, and (2) within varying distances of up to one mile from the subject property.

AKT Peerless' review of the referenced databases did not disclose any new listings for the subject property or properties within the specified search radii beyond those summarized and discussed in AKT Peerless' September 2022 Phase I ESA, except for the following:

Subject Property

- 220 N. Park Street is listed on the Federal Brownfields database in connection with a Phase II Environmental Assessment funded by DCCBC under USEPA Cooperative Agreement No. 00E02888. Arsenic and selenium were identified as contaminants associated with the subject property.

Refer to Section 3.7 for additional information pertaining to this database listing.

Adjoining Properties

- Marsh Plating Corp., 103 N. Grove Street (southern adjoining property), identified as a RCRA Large Quantity Generator (LQG) in July 2022. No records of compliance evaluations or enforcement actions beyond those summarized and discussed in AKT Peerless' September 2022 Phase I ESA were identified.

A copy of the current Environmental Risk Information Services (ERIS) database report, dated November 8, 2022, is provided in **Appendix D**.

4.2 Regulatory Agency File and Records Review

In January 2020, EGLE changed its Freedom of Information Act (FOIA) request policy. The revised policy includes an internal review of requested documents to evaluate the need for redactions (among other changes). This policy change has resulted in delays to the access of file information and a significant increase in FOIA fees. In some cases, these time and cost increases have made this information not *reasonably ascertainable* as defined in ASTM Standard Practice E 1527. Only regulatory file information dated after completion of AKT Peerless' September 2022 Phase I ESA that was considered *reasonably ascertainable* is summarized in the appropriate subsections below.

4.2.1 Michigan Department of Licensing and Regulatory Affairs (LARA)

AKT Peerless contacted LARA's Bureau of Fire Services (BFS) to review available records regarding registered storage tanks associated with the subject property and select adjoining properties.

According to LARA BFS, no regulatory file information associated with the subject property or adjoining properties dated since completion of AKT Peerless' September 2022 Phase I ESA was identified.

4.2.2 EGLE Remediation and Redevelopment Division (RRD)

AKT Peerless reviewed EGLE RRD's Perfected Lien List on November 18, 2022 to determine whether environmental cleanup liens had been filed against the subject property. The subject property was not identified on the perfected lien list.

In addition, AKT Peerless submitted a request to EGLE RRD to review available file information regarding USTs, leaking underground storage tanks (LUSTs), or other environmental records pertaining to the subject property and select adjoining properties.

According to EGLE RRD, no regulatory file information associated with the subject property or adjoining properties dated since completion of AKT Peerless' September 2022 Phase I ESA was identified, except for the following:

Subject Property

220 N. Park Street Redevelopment Project

EGLE RRD provided AKT Peerless with documentation pertaining to a Brownfield Plan and Act 381 Work Plan associated with Renovare Ypsilanti Homes, LLC's proposed redevelopment of the subject property.

According to the records, City of Ypsilanti approved a "Resolution Approving Brownfield Plan for 220 N. Park" on June 21, 2022. On August 22, 2022, Washtenaw County Brownfield Redevelopment Authority (BRA) and Renovare Ypsilanti Homes, LLC entered into a reimbursement agreement and on September 7, 2022, Washtenaw County BRA approved "A Resolution to Adopt the Brownfield Plan for the 220 North Park Redevelopment Project." The Brownfield Plan was formally adopted on September 8, 2022.

On August 3, 2022, Renovare Development completed an "Act 381 Work Plan to Conduct Eligible EGLE Environmental and MSF Non-Environmental Activities, 220 North Park Street" on behalf of Renovare Ypsilanti Homes, LLC. The Act 381 Work Plan indicated that the proposed redevelopment of the subject property included the construction of 46 attached and detached single-family homes, 50% of which would be set aside for qualified individuals and families making 40% to 80% of the area median income. On September 20, 2022, Washtenaw County Office of Community & Economic Development submitted

the Act 381 Work Plan to EGLE RRD for review and approval due to the inclusion of a \$50,000 provision for excavation, transportation, and off-site disposal of contaminated soils identified during completion of AKT Peerless' September 2021 Phase II ESA (see Section 3.7). EGLE RRD acknowledged receipt of the Act 381 Work Plan on September 21, 2022 and indicated that review would be completed by November 18, 2022. The analytical laboratory results associated with AKT Peerless' November 2022 Supplemental Phase II ESA were received on October 10, 2022. On October 24, 2022, these results were presented to EGLE RRD, Washtenaw County Office of Community & Economic Development, and Renovare Ypsilanti Homes, LLC by AKT Peerless. The results indicated that additional soil contamination exceeding applicable Part 201 Generic RCC was located entirely within the footprint of the proposed on-site stormwater management system. Because the proposed on-site stormwater management system would be constructed above existing grade and could therefore be used to provide a direct contact barrier to exposure to the identified soil contamination, Renovare Ypsilanti Homes, LLC opted to omit the excavation, transportation, and off-site disposal provision from the Act 381 Work Plan, which thereby exempted the Act 381 Work Plan from EGLE RRD review/approval requirements. Washtenaw County Office of Community & Economic Development formally rescinded its request for EGLE RRD review/approval of the Act 381 Work Plan on the same date.

No additional information pertaining to environmental conditions associated with the subject property was identified in the EGLE RRD records.

4.2.3 EGLE Materials Management Division (MMD)

AKT Peerless submitted a request to EGLE MMD to review available file information regarding waste management activities, permits, inspections and violations associated with the subject property and select adjoining properties.

AKT Peerless also reviewed the WDS for information regarding waste disposal operations at the subject property and select adjoining properties. The WDS tracks activities at facilities regulated by the Solid Waste, Scrap Tire, Hazardous Waste, and Liquid Industrial Waste (LIW) programs.

According to EGLE MMD and the WDS, no regulatory file information associated with the subject property or adjoining properties dated since completion of AKT Peerless' September 2022 Phase I ESA was identified, except for the following:

Adjoining Properties

Marsh Plating Corp., 103 N. Grove Street (southern adjoining property)

Marsh Plating Corp. was identified on the WDS. As noted in Section 4.1, Marsh Plating Corp. identified as an LQG in July 2022. No further information was provided on the WDS beyond that summarized in Section 4.1 or as summarized and discussed in AKT Peerless' September 2022 Phase I ESA.

In AKT Peerless' opinion, the identification of the southern adjoining property on the RCRA LQG and WDS databases as of July 2022, which represents no change from its identification on these databases as of January 2022, as summarized in AKT Peerless' September 2022 Phase I ESA, does not represent a new environmental condition.

4.3 Additional Environmental Record Sources

AKT Peerless visited and or/contacted the City of Ypsilanti assessing, building, and fire departments and the Washtenaw County Health Department to determine whether these data sources possessed records or other information about the subject property and/or adjoining properties relative to potential environmental issues or concerns that may have occurred, been reported, or otherwise been brought to light since completion of AKT Peerless' September 2022 Phase I ESA. AKT Peerless did not identify any such records or significant information from those data sources.

5.0 Interviews

5.1 Interview with Subject Property Owner

The subject property is currently owned by City of Ypsilanti. AKT Peerless interviewed Mr. Joe Meyers, City of Ypsilanti Director of Economic Development, and Mr. Christopher Jacobs, City of Ypsilanti Community Development Manager, regarding the City's knowledge of the subject property. City of Ypsilanti indicated that the subject property has been used as a recreational park for most of its settled history and that City of Ypsilanti acquired the subject property through tax foreclosure in 1938. City of Ypsilanti referred to AKT Peerless' October 2015 Phase I ESA and September 2021 Phase II ESA (see Section 3.7) for additional information pertaining to environmental conditions at the subject property.

5.2 Interview with Key Site Manager

Refer to Section 5.1.

5.3 Interview with Subject Property Occupants and Operators

The subject property is unoccupied; therefore, this section does not apply.

5.4 Interview(s) with Others

AKT Peerless did not conduct interviews with others during this assessment because the historical use of the subject property has been identified. Furthermore, interviews with the occupants of adjoining and nearby properties were not conducted because the subject property is not considered abandoned, as defined by ASTM Standard Practice E 1527.

6.0 Subject Property Reconnaissance

6.1 Methodology and Limiting Conditions

The subject property reconnaissance consisted of visual and physical observations of the subject property. AKT Peerless visually and/or physically observed the periphery of the subject property. In addition, AKT Peerless observed the subject property from all adjacent public thoroughfares.

Mr. Scott Wasielewski of AKT Peerless conducted the subject property reconnaissance on November 17, 2022. AKT Peerless did not encounter project specific facts or conditions that limited our ability to access the subject property, except for some areas of dense vegetation and associated leaf litter along the southern property boundary.

6.2 General Subject Property Setting and Operations

The subject property consists of undeveloped, vegetated land (i.e., maintained lawn, trees) and does not contain structures or other improvements.

6.3 Observations

6.3.1 Hazardous Substances and Petroleum Products

AKT Peerless did not observe hazardous substances or petroleum products (including wastes) at the subject property.

6.3.2 Storage Tanks

AKT Peerless did not observe evidence of current or former UST systems (e.g., vent pipes, fill ports, dispensing pumps, patched pavement, etc.) at the subject property.

AKT Peerless did not observe evidence of current or former AST systems (e.g., stands, secondary containments, etc.) at the subject property.

6.3.3 Strong, Pungent, or Noxious Odors

AKT Peerless did not observe evidence of strong, pungent, or noxious odors at the subject property.

6.3.4 Unidentified Substance Containers

AKT Peerless did not observe evidence of unidentified substances or other suspect containers at the subject property.

6.3.5 Potential PCB Containing Items

AKT Peerless inspected the subject property for the presence of liquid-cooled electrical units such as transformers and large capacitors. Such units are notable since they may be potential sources of PCBs. AKT Peerless did not observe suspect PCB-containing electrical equipment at the subject property, except for the following:

Potential PCB-Containing Electrical Equipment

Source Description	Source Location	Responsibility	Observations
One pad-mounted transformer	North-central portion of subject property	Not identified	No evidence of a release
One pole-mounted transformer	Southwest corner of subject property	DTE Energy	No evidence of a release

AKT Peerless observed one apparent pad-mounted transformer on the north-central portion of the subject property. The apparent transformer had no markings and AKT Peerless was unable to determine whether the equipment was associated with the former on-site Boys and Girls Club building or with the existing multi-family residential structure (i.e., Gilbert mansion) on the northern adjoining property at 227 N. Grove Street.

In addition, AKT Peerless observed one pole-mounted transformer near the southwest corner of the subject property. The pole-mounted transformer is the responsibility of DTE Energy. In the event of a release incident, DTE Energy will repair the damaged or leaking electrical unit(s) and return the quality of the affected soil and groundwater, if any, to its pre-release condition. AKT Peerless did not observe evidence or indication of oil stains, leaks, or spills near the transformers.

6.3.6 Interior Staining/Corrosion

There are no structures at the subject property; therefore, this section does not apply.

6.3.7 Drains and Sumps

There are no structures at the subject property; therefore, this section does not apply.

6.3.8 Water/Wastewater Discharges

AKT Peerless did not observe evidence of wastewater or other liquid (including storm water) discharges containing hazardous substances or petroleum products at the subject property.

Storm water that falls upon the subject property appears to evaporate, infiltrate directly into the ground, or runoff to the adjoining properties and/or rights-of-way.

6.3.9 Standing Water, Pools, Waste Pits, Ponds, and Lagoons

AKT Peerless did not observe standing water, pools, sumps, pits, ponds, or lagoons containing liquids considered likely to contain hazardous substances or petroleum products at the subject property.

6.3.10 Solid Waste Dumping/Landfills

AKT Peerless did not observe evidence of solid waste dumping or landfilling at the subject property, except for one small area of concrete debris and surficial fill material on the south-central portion of the subject property within an area of dense vegetation.

As noted in Section 3.7, soil contamination was identified in connection with this on-site fill material during completion of AKT Peerless' September 2021 Phase II ESA and November 2022 Supplemental Phase II ESA. In addition, other areas of environmentally suspect fill material were identified at the subject property during completion of G2's July 2022 Report on Geotechnical Investigation, which were also evaluated during completion of AKT Peerless' November 2022 Supplemental Phase II ESA. Refer to Section 3.7 for additional information.

6.3.11 Stained Soil, Stressed Vegetation, Stained Pavement

AKT Peerless did not observe evidence of stained soil, stressed vegetation, or stained pavement at the subject property.

6.3.12 Well and Septic Systems

AKT Peerless did not observe physical evidence of drinking water wells, septic systems, or cesspools at the subject property.

6.3.13 Other Observations

AKT Peerless did not observe evidence of other potential environmental concerns at the subject property.

6.3.14 Adjoining Properties

Based on AKT Peerless' visual observations, the current uses of the adjoining properties do not appear to pose an environmental concern to the subject property, except for the light industrial buildings located on the southern adjoining properties at 103 N. Grove Street and 204 N. Park Street. However, as noted in Section 3.7, the uses of these adjoining properties have been adequately evaluated.

6.4 Non-ASTM Standard Practice E 1527 Scope Considerations

AKT Peerless did not evaluate other potential environmental conditions (i.e., further areas of possible business/environmental concern and/or liability) that are outside the scope of ASTM Standard Practice E 1527. Examples of such potential environmental conditions that are beyond the scope of this Phase I ESA include: asbestos containing materials (ACMs), biological agents, cultural and historic resources, ecological resources, endangered species, health and safety, indoor air quality, industrial hygiene, lead-based paints (LBPs), lead in drinking water, moisture intrusion/suspect mold or microbial growth, noise pollution, naturally-occurring radon, regulatory compliance/non-compliance, substances not defined as CERCLA hazardous substances, and/or wetlands.

Users of this document who wish to obtain an evaluation of the subject property relative to any of the aforementioned non-ASTM Standard Practice E 1527 scope considerations may contact AKT Peerless to retain these services.

7.0 Findings, Opinions, and Conclusions

AKT Peerless has performed a Phase I ESA Update in conformance with the scope and limitations of ASTM Standard Practice E 1527 of the property located at 220 N. Park Street in Ypsilanti, Washtenaw County, Michigan (the subject property). Any exceptions to, or deletions from, this practice are described in Section 8.0 of this report. AKT Peerless' findings and opinions with respect to potential RECs are presented throughout this report, including discussion and analysis of potential RECs that, after further consideration and research, were not determined to be RECs, CRECs, or HRECs. Such findings and opinions are discussed in the appropriate sections of this report.

7.1 Recognized Environmental Conditions

This assessment has revealed no evidence of known RECs in connection with the subject property, except for the following:

REC 1 - In October 2015, AKT Peerless completed a Phase I ESA of the subject property. AKT Peerless' October 2015 Phase I ESA identified one on-site REC (i.e., surficial and shallow subsurface fill material of unknown origin) on the south-central portion of the subject property and four off-site RECs (i.e., current and/or historical light industrial land uses). In September 2021, AKT Peerless completed a Phase II ESA of the subject property evaluating these RECs. Soil contamination, including arsenic and selenium comingled with low-level PNAs, was identified in the soil sample collected from soil boring location PS-SB-1 to evaluate the on-site REC at concentrations exceeding Part 201 Generic RCC; contamination associated with the off-site RECs was not identified. In July 2022, G2 completed a geotechnical investigation of the subject property. Additional environmentally suspect fill material was identified at four of G2's 18 geotechnical soil boring locations (i.e., soil boring locations B-1, B-10, B-12, and B-18).

To assist the prospective subject property owner's Due Care decision-making with respect to the proposed redevelopment of the subject property for residential land use, AKT Peerless completed a Supplemental Phase II ESA of the subject property in November 2022 to (1) further evaluate soil contamination associated with on-site fill material of unknown origin on the south-central portion of the subject property (i.e., the PS-SB-1 delineation area) and (2) suspect fill material at geotechnical soil boring locations B-1, B-10, B-12, and B-18. Additional soil contamination, including arsenic, barium, chromium (total), lead, mercury, selenium, silver, zinc, acenaphthylene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, carbazole, dibenzo(a,h)anthracene, fluoranthene, naphthalene, and phenanthrene, was identified in one or more soil samples collected from the subject property at concentrations exceeding Part 201 Generic RCC.

Based on the results of AKT Peerless' September 2021 Phase II ESA and November 2022 Supplemental Phase II ESA, the subject property meets the definition of a "facility," as defined in Part 201 of the NREPA. The "facility" status of the subject property represents an REC.

In AKT Peerless' opinion, the environmental conditions previously identified in AKT Peerless' October 2015 Phase I ESA, AKT Peerless' September 2021 Phase II ESA, and G2's July 2022 Report on Geotechnical Investigation have been adequately evaluated and no further investigation and/or assessment is warranted at this time.

As noted above, the subject property meets the definition of a "facility," as defined in Part 201 of the NREPA. AKT Peerless recommends any future owner(s)/operator(s) prepare a BEA. Section 26(1)(c) of Part 201 provides certain liability protections to a person who becomes an owner or operator of a "facility" on, or after, June 5, 1995 if they comply with both of the following, or unless other defenses apply: a BEA is conducted prior to or within 45 days after the earlier of the date of purchase, occupancy, or foreclosure, and the owner or operator discloses the results of the BEA to EGLE RRD and subsequent purchaser or transferee.

In addition, because the subject property meets the definition of a "facility," the property owner is required to comply with Due Care obligations. Due Care obligations include:

- Undertaking measures to prevent exacerbation of existing contamination.
- Exercising Due Care by undertaking response activities to mitigate unacceptable exposure to hazardous substances, mitigate fire and explosion hazards due to hazardous substances, and allow for the intended use of the "facility" in a manner that protects health and safety.
- Taking reasonable precautions against the reasonably foreseeable acts or omissions of a third party and the consequences that could result from those acts or omissions.
- Provide notifications to EGLE and others in regard to mitigating fire and explosions hazards, discarded or abandoned containers, contamination migrating beyond "facility" boundaries, as applicable.
- Comply with any land use or resource use restrictions established or relied on in connection with response activities at the "facility."
- Not impede the effectiveness or integrity of any land use or resource use restriction employed at the "facility" in connection with response activities.

7.2 Controlled Recognized Environmental Conditions

This assessment has revealed no evidence of known CRECs in connection with the subject property.

7.3 Historical Recognized Environmental Conditions

This assessment has revealed no evidence of known HRECs in connection with the subject property.

7.4 De Minimis Conditions

During the course of Phase I ESAs, AKT Peerless often encounters conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. These conditions are not considered RECs, CRECs, or HRECs, but are defined by ASTM Standard Practice E 1527 as *de minimis* conditions. In the interest of brevity, AKT Peerless did not develop a full list of *de minimis* conditions in this section, but rather evaluated and identified these conditions in the appropriate sections of this report.

7.5 Significant Data Gaps

A data gap is a lack of, or inability to, obtain required information during the course of a Phase I ESA. AKT Peerless summarized data gaps, if identified, in the appropriate sections of this report related to the source of information. A significant data gap is a data gap that affects AKT Peerless' ability to identify RECs. This assessment has revealed no instances of significant data gaps in connection with the subject property.

7.6 Other Notable Environmental Considerations

AKT Peerless' Phase I ESAs occasionally reveal other notable environmental considerations that may be relevant to the environmental condition of the subject property that do not qualify as RECs, CRECs, HRECs, or *de minimis* conditions. No such other notable environmental considerations were identified during this assessment, except for the following:

- AKT Peerless' review of readily available standard and other historical sources provided only limited information regarding potable water and sanitary sewer services or systems utilized by the former structure present on the subject property between the early 1970s and 2016. As specific connection dates were not identified, the former structure present on the subject property might have utilized on-site potable water well(s) and/or private septic system(s) prior to connection to municipal services. It is likely that these features, if any, would have been identified and removed at the time of connection to municipal services. However, if any drinking water wells or septic systems are identified or encountered during future development activities, they should be decommissioned, removed, and/or disposed in accordance with applicable federal, state, and local regulations.

8.0 Deviations

Other than the revised scope for the purposes of conducting a Phase I ESA Update rather than a Phase I ESA, AKT Peerless did not deviate from ASTM Standard Practice E 1527 when performing this Phase I ESA Update.

9.0 Project Resources and References

AKT Peerless referred to the following resources between November 2, 2022 and November 18, 2022 to complete its Phase I ESA Update:

- USEPA
- USGS
- USDA
- LARA
- EGLE
- Washtenaw County Health Department
- Ypsilanti Government Sources (assessing, building, fire departments)
- YCUA
- ERIS (state and federal database report)
- Interviews
- Previous environmental and geotechnical assessments

Individual resources obtained from the referenced sources are cited in the appropriate sections of this report.

10.0 Signatures of Environmental Professionals

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



Scott Wasielewski
Project Manager

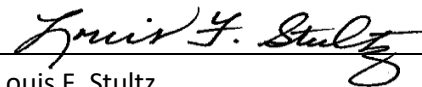
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Louis F. Stultz

Senior Project Manager/Group Leader

AKT Peerless

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stultzl@aktpeerless.com

Qualifications

Scott Wasielewski

Project Manager

Mr. Wasielewski joined the AKT Peerless team in 2013 as an environmental consultant, specializing first in environmental due diligence and later in vapor mitigation; human health risk assessments and development of site-specific cleanup criteria for atypical land use; remediation services; and hydrogeological investigations.

EDUCATION

Master of Science, Environmental Science, University of Michigan-Dearborn (2014)

Bachelor of Science, Environmental Biology/Specialization in Microbiology, Michigan State University (2007)

PROFESSIONAL EXPERIENCE

Project Manager

AKT Peerless Environmental Services (2019-2022)

Senior Environmental Consultant

AKT Peerless Environmental Services (2017-2019)

Environmental Consultant

AKT Peerless Environmental Services (2013-2017)

Technical Writer

Independent Contractor (2007-2013)

Undergraduate Research Assistant

MSU Department of Geological Sciences (2006-2007)

Undergraduate Writing Consultant

MSU Writing Center (2004-2007)

AREAS OF EXPERTISE

Mr. Wasielewski thrives on technical problem solving, whether navigating complex Phase I Environmental Site Assessments; designing subsurface and/or vapor intrusion investigations and vapor mitigation systems; evaluating clients' compliance with various continuing/Due Care obligations; conducting human health risk assessments and developing site-specific cleanup criteria for recreational land use; managing TSCA self-implementing cleanup of PCB contamination; or undertaking hydrogeological investigations for potable resource development and/or site characterization purposes. Mr. Wasielewski's clients include a variety of municipalities and private developers.

CERTIFICATIONS

40-Hour Hazardous Waste Operations & Emergency Response, 29 CFR Part 1910.120

Certified Inspector, Land Science Technologies (GeoSeal® Vapor Barrier)

Two-Hour Asbestos Awareness, 40 CFR Part 763 and 29 CFR Part 1926.1101

Louis F. Stultz

Group Leader



Mr. Stultz brings 21 years of professional experience in environmental consulting services. His expertise is in environmental due diligence, remedial investigations, and remediation systems.

PROFESSIONAL EXPERIENCE

**S.E. Michigan Regional Manager
Industrial Services Director**
AKT Peerless

Senior Project Manager
Canopus Environmental Group, Inc.

Project Manager
Atwell-Hicks, Inc.

Project Geologist
Snell Environmental Group, Inc.

Geologist
Aqua-Terra, Inc.

CERTIFICATIONS

OSHA
40 Hour Hazwoper Class and subsequent 8-hour refreshers

Asbestos Inspector
(Accreditation #A 14344) and subsequent 4-hour refreshers

**Risk Based Corrective Action
Petroleum Sites**
(MDEQ - RBCA Training)

**Assessment/Remediation of Petroleum
Hydrocarbons**
(Training - Private Contractor)

SARA Title III; Tier Two Reporting/Training

EDUCATION

BS: Geology, 1994
Eastern Michigan University

AREAS OF EXPERTISE

- Part 201 Environmental Due Diligence, including Phase I & II ESAs, and BEA/DCPs
- Part 213, Leaking Underground Storage Tank guidelines, removal and reporting
- Report writing under P.A. 451, Parts 201 and 213
- Brownfield Consulting Services
- Developing standard procedural guidelines, including work plans, USEPA QAPP, HASP & SAP documents
- Asbestos building inspections
- Environmental building assessments (Hazardous Materials Surveys) conducted in preparation of intended demolition activities prior to site redevelopment
- Conducting environmental compliance audits, preparing SPCC and SWPP plans

SUMMARY OF SELECTED PROJECTS

Phase I Environmental Site Assessments

- Project Manager for 500 Phase I ESAs since November of 1998.
- Personally completed over 175 Phase I ESAs since 1994.
- Multi-Site Phase I ESAs – Detroit, Michigan. Site manager for the completion of 35 Phase I ESAs (potential casino location) and 39 Phase I ESAs (professional stadium complex) in accordance with ASTM and City of Detroit guidelines. These projects were under extreme time constraints and were completed on schedule.

Leaking Underground Storage Tank Sites

- Fort Wayne Military Reservation, Detroit, Michigan: U. S. Army Corps of Engineers
- Michigan State Police Posts: Michigan Department of Management & Budget
- Michigan Department of Military Affairs, including; Detroit Artillery Armory, Oak Park; Detroit Light Guard Armory, Detroit; Midland Armory, Midland, and the Monroe Armory, Monroe
- Standard Federal Bank branches, Southeast Michigan
- Multiple current and former gas station sites throughout Michigan
- Amoco fuel storage terminal, Bay City, Michigan
- Amoco bulk fuel storage facility, Coldwater, Michigan
- Bulk fuel storage facility, Romulus, Michigan
- Multiple auto dealerships located throughout Southeast Michigan

Phase II Environmental Site Assessments/Subsurface Investigations : Baseline Environmental Assessments & Due Care Plan Preparation

- Independent bulk fuel storage facilities throughout Michigan
- Numerous industrial manufacturing facilities throughout Michigan
- Numerous commercial properties throughout Michigan
- Warehouse distribution facilities throughout Michigan
- Farmland/residential development sites throughout Michigan
- Managed and/or conducted all project activities, including the advancement of Geoprobe and hollow-stem auger borings, soil verification sampling, laboratory analysis, soil disposal, well installation & abandonment, summary/closure reporting, Phase II ESA/SI and BEA/Due Care Plan preparation, and all client/regulatory contacts and requirements.

Remedial Investigations

- Revere, Copper & Brass (MDEQ "Level of Effort" Contract) – Detroit, Michigan.
- Lear Siegler (MDEQ "Level of Effort" Contract) – Detroit, Michigan
- Anaconda Brass (MDEQ "Level of Effort" Contract) – Detroit, Michigan
- Lawton Street (MDEQ "Level of Effort" Contract) – Detroit, Michigan
- Supervised field activities during each remedial investigation, including the collection and submittal of soil, sludge, groundwater and concrete samples throughout each industrial complex.
- Supervised the installation of monitoring wells, and the collection and submittal of all surface water and ground water samples during quarterly sampling events. Conducted monitoring well slug tests. Assisted in the development of the RI/RAP Reports.
- Former NIKE Missile Battery, Southfield, Michigan: U. S. Army Corps of Engineers.
- Performed environmental oversight during demolition activities and supervised the removal of accumulated groundwater within the missile silos.

Responsibilities include, directing brownfield consulting services and/or providing project management for a number of brownfield redevelopment projects benefiting both private developers and municipalities.

Services include:

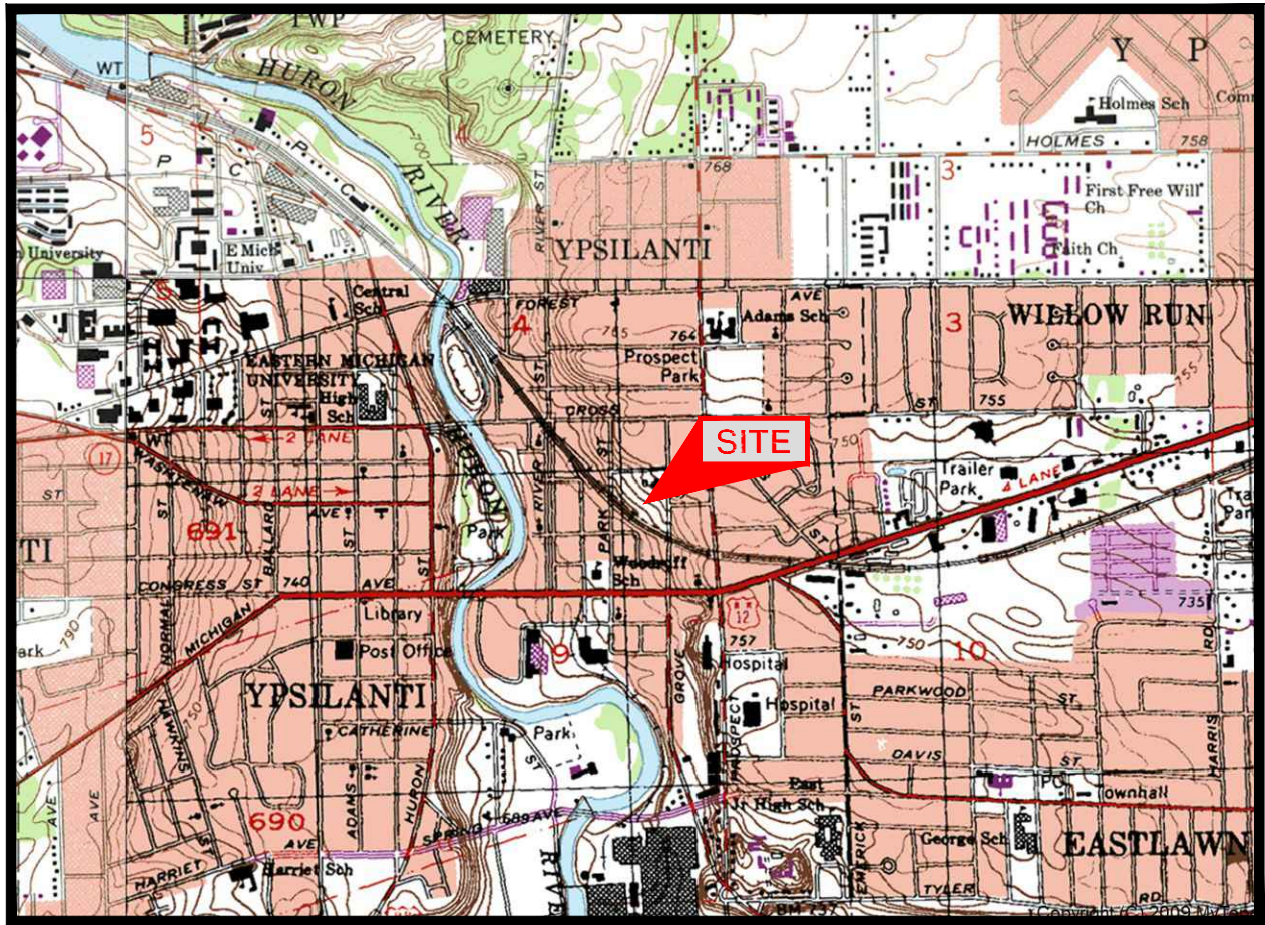
- Writing Brownfield Plans and Act 381 Work Plans (TIF Reimbursement)
- MBT Credit Applications
- Brownfield Redevelopment Grants & Loans (CMI)
- USEPA Revolving Loan Fund/Grants and Assessment/Cleanup Grants.

Brownfield projects, consulting and/or business development services were conducted through the following Brownfield Redevelopment Authorities (BRAs):

Ann Arbor (formally independent, currently part of WCBRA), Auburn Hills, Battle Creek, Detroit, Genesee County (Land Bank Authority), Howell, Kalamazoo, Lansing, Lincoln Park, Monroe, Trenton, Vassar Township, Washtenaw County (Saline, Chelsea, and Dexter) and Ypsilanti (formally independent, currently part of WCBRA).

Figures

YPSILANTI EAST QUADRANGLE
 MICHIGAN - WASHTENAW COUNTY
 7.5 MINUTE SERIES (TOPOGRAPHIC)



T.3 S.-R.7 E.

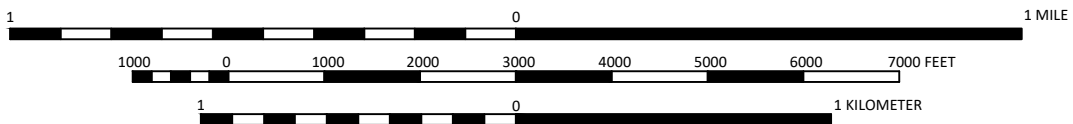


IMAGE TAKEN FROM 1996 U.S.G.S. TOPOGRAPHIC MAP

MICHIGAN
 QUADRANGLE LOCATION



AKTPEERLESS[™]
 ENVIRONMENTAL SERVICES

www.aktpeerless.com

TOPOGRAPHIC LOCATION MAP

220 N. PARK STREET
 YPSILANTI, MICHIGAN
 PROJECT NUMBER : 10627F2-4-17

DRAWN BY: OGO
 DATE: 11/18/2022

FIGURE 1



GREAT LAKES DESIGN, LLC
301 N. PARK STREET

SINGLE-FAMILY
RESIDENTIAL
302 N. PARK STREET

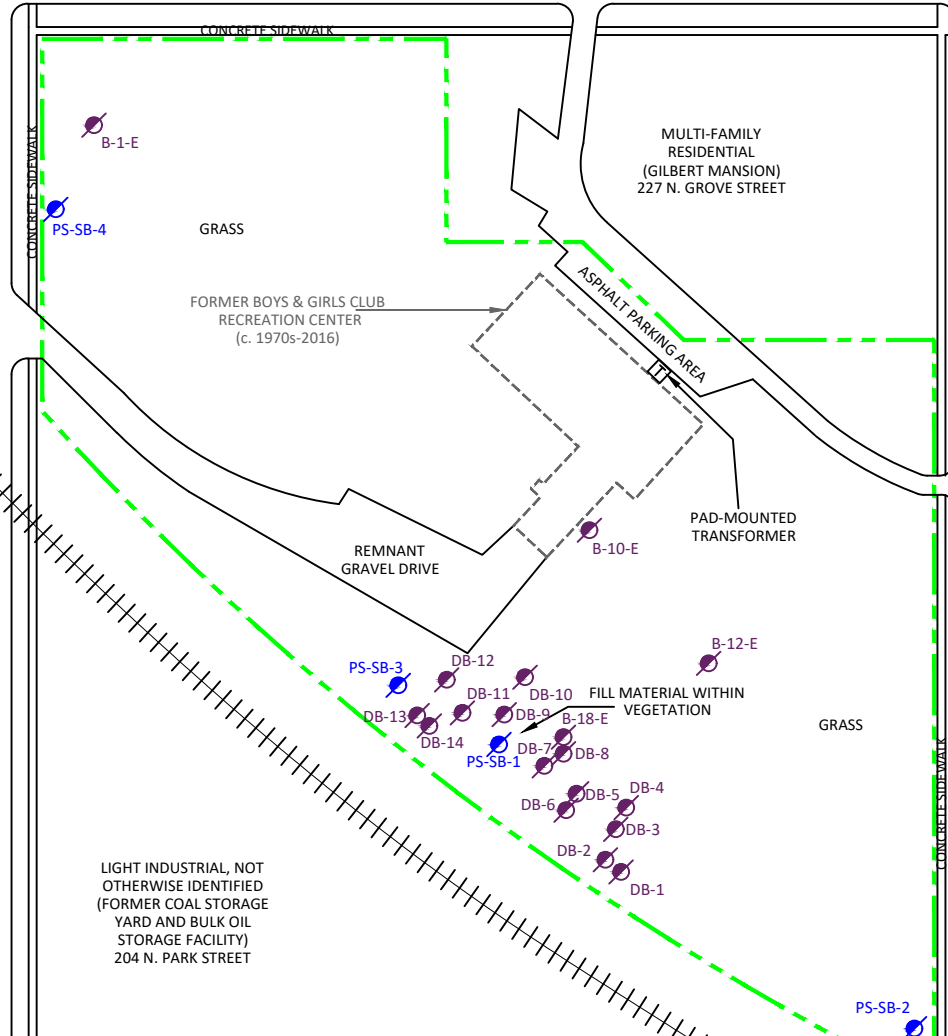
SINGLE-FAMILY
RESIDENTIAL
313 HIGH STREET

SINGLE-FAMILY
RESIDENTIAL
315 HIGH STREET

HIGH STREET

UNDEVELOPED LAND,
REMNANT PAVED
PARKING LOT
(FORMER COAL
STORAGE LOT)
223 N. PARK STREET

N. PARK STREET



MULTI-FAMILY
RESIDENTIAL
(GILBERT MANSION)
227 N. GROVE STREET

FORMER BOYS & GIRLS CLUB
RECREATION CENTER
(c. 1970s-2016)

PAD-MOUNTED
TRANSFORMER

REMNANT
GRAVEL DRIVE

N. GROVE STREET

SINGLE-FAMILY
RESIDENTIAL
216 N. GROVE STREET

SINGLE-FAMILY
RESIDENTIAL
209-213 N. PARK STREET

LOCUST
STREET

SINGLE-FAMILY
RESIDENTIAL
410 LOCUST STREET

SINGLE-FAMILY
RESIDENTIAL
214 N. GROVE STREET
SINGLE-FAMILY
RESIDENTIAL
212 N. GROVE STREET

LIGHT INDUSTRIAL, NOT
OTHERWISE IDENTIFIED
(FORMER COAL STORAGE
YARD AND BULK OIL
STORAGE FACILITY)
204 N. PARK STREET

FILL MATERIAL WITHIN
VEGETATION

GRASS

SINGLE-FAMILY
RESIDENTIAL
208 N. GROVE STREET

UNDEVELOPED LAND,
REMNANT PAVED
PARKING LOT
(FORMER LIGHT
INDUSTRIAL AND
OIL STORAGE)
(BEA, SHWS, UST, RCRA
NON-GEN, WDS,
FIND/FRS)
206 N. GROVE STREET

NORTH STREET

- LEGEND**
- = PROPERTY LINE
 - = SOIL BORING, JULY 2022
 - = SOIL BORING, SEPTEMBER 2022

MARSH PLATING
(FORMER FOUNDRY & MANUFACTURING)
103 N. GROVE STREET
(CERCLIS NFRAP, RCRA TSD, RCRA LQG,
UST, AST, DESLISTED TANK, WDS)



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SUBJECT PROPERTY MAP

220 N. PARK STREET
YPSILANTI, MICHIGAN
PROJECT NUMBER: 10627F2-4-17

DRAWN BY: OGO
DATE: 11/18/2022

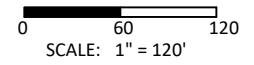


FIGURE 2

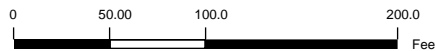
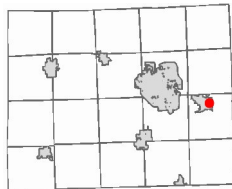
Appendix A
Legal Description and Parcel Map

Legal Description: 220 N. Park Street, Ypsilanti, Michigan (Parcel ID No. 11-11-09-111-004)

11E-29A-1 LOT 60 GILBERT'S ADDITION, EXC BEG AT NE COR LOT 60, TH S 00-40-00 W 175.00 FT, TH S 89-50-50 W 147.63 FT, TH N 46-18-30 W 83.72 FT, TH S 89-50-50 W 82.16 FT, TH N 00-40-00 E 117.00 FT, TH N 89-50-50 E 291.00 FT TO THE POB, ALSO BEG AT ELY ROW LN OF PARK ST AT SW COR LOT 60 GILBERT'S ADDITION TO CITY OF YPSI, TH 669.09 FT ALNG ARC OF CURV-LFT-RAD 1945.58 FT – CH S 52-50-00 E 665.80 FT, TH S 00-2-30 W 45.57 FT, TH 660.01 FT ALNG ARC OF CURV-RT-RAD 1986.74 FT – CH N 53-51-20 W 656.98 FT, TH NLY ALNG ROW 60.30 FT TO THE POB. PT OF NE ¼ SEC 9, T3S-R7E. 0.63 AC, PT OF LOT 60 GILBERT'S ADDITION. 221 N. GROVE*, COMBINED ON 7/28/2014 FROM 11-11-09-111-001, 11-11-09-111-003



Parcel Map



1: 1,200

11/18/2022



NOTE: Parcels may not be to scale.

The information contained in this cadastral map is used to locate, identify and inventory parcels of land in Washtenaw County for appraisal and taxing purposes only and is not to be construed as a "survey description". The information is provided with the understanding that the conclusions drawn from such information are solely the responsibility of the user. Any assumption of legal status of this data is hereby disclaimed.

Appendix B

Reconnaissance Photographs



SUBJECT PROPERTY FACING NORTH (NORTHERN ADJOINING PROPERTY IN BACKGROUND)



SUBJECT PROPERTY FACING EAST



SUBJECT PROPERTY FACING SOUTH



SUBJECT PROPERTY FACING WEST



RECONNAISSANCE PHOTOGRAPHS

220 N. Park Street
Ypsilanti, Michigan

TAKEN BY:
S. WASIELEWSKI
DATE: NOVEMBER 17,
2022

PROJECT NUMBER:
10627F2



SURFICIAL FILL MATERIAL, SOUTH-CENTRAL PORTION OF SUBJECT PROPERTY



APPARENT TRANSFORMER, NORTH-CENTRAL PORTION OF SUBJECT PROPERTY



NORTHERN ADJOINING PROPERTY (302 N. PARK STREET)



NORTHERN ADJOINING PROPERTY (313 HIGH STREET)



NORTHERN ADJOINING PROPERTY (315 HIGH STREET)



NORTHERN ADJOINING PROPERTY (227 N. GROVE STREET)



EASTERN ADJOINING PROPERTY (216 N. GROVE STREET)



EASTERN ADJOINING PROPERTY (410 LOCUST STREET)



EASTERN ADJOINING PROPERTY (214 N. GROVE STREET)



EASTERN ADJOINING PROPERTY (212 N. GROVE STREET)



EASTERN ADJOINING PROPERTY (208 N. GROVE STREET)



EASTERN ADJOINING PROPERTY (206 N. GROVE STREET)



SOUTHEASTERN ADJOINING PROPERTY (106 N. GROVE STREET)



SOUTHERN ADJOINING PROPERTY (103 N. GROVE STREET)



SOUTHERN ADJOINING PROPERTY (204 N. PARK STREET)



WESTERN ADJOINING PROPERTIES (209-213 N. PARK STREET)



WESTERN ADJOINING PROPERTY (223 N. PARK STREET)



NORTHWESTERN ADJOINING PROPERTY (301 N. PARK STREET)

Appendix C

AKT Peerless' November 2022 Supplemental Phase II ESA

(See Appendix E of BEA Document)

Appendix D

Standard Environmental Record Database Report

(Omitted from BEA Document)

Appendix D

AKT Peerless' September 2021 Phase II ESA



PHASE II ENVIRONMENTAL SITE ASSESSMENT

220 N. Park Street, Ypsilanti, Michigan

PREPARED FOR Downriver Community Conference Brownfield Consortium
15100 Northline Road
Southgate, MI 48195

and

City of Ypsilanti
1 S. Huron Street
Ypsilanti, Michigan 48197

FUNDED BY USEPA 2020 Brownfields Assessment Grant
Cooperative Agreement No. BF-00E02888-0

PROJECT # 10627F2-2-20

DATE September 1, 2021

Table of Contents

1.0	INTRODUCTION	1
2.0	BACKGROUND	1
2.1	SITE DESCRIPTION AND PHYSICAL SETTING.....	1
2.2	SUBJECT PROPERTY HISTORY AND LAND USE.....	2
2.3	ADJACENT PROPERTY LAND USE.....	2
2.4	PREVIOUS ENVIRONMENTAL INVESTIGATIONS	2
3.0	PHASE II ESA ACTIVITIES	3
3.1	SCOPE OF ASSESSMENT	3
3.1.1	Soil Evaluation	4
3.1.2	Groundwater Evaluation	4
3.1.3	Deviations from the Sampling and Analysis Plan	4
3.2	QUALITY ASSURANCE/QUALITY CONTROL.....	5
3.2.1	Decontamination of Equipment	5
3.2.2	Calibration of Field Equipment.....	5
3.2.3	Documentation of Activities.....	5
3.2.4	Sample Preservation Techniques.....	5
3.2.5	QA/QC Sample Collection.....	5
3.3	LABORATORY ANALYSES AND METHODS.....	6
4.0	EVALUATION AND PRESENTATION OF RESULTS	7
4.1	SUBSURFACE CONDITIONS.....	7
4.1.1	Soil and Groundwater Conditions based on Published Material	7
4.1.2	Soil and Groundwater Conditions based on Field Observations.....	7
4.2	ANALYTICAL LABORATORY RESULTS.....	8
4.2.1	Soil Analytical Results.....	8
4.2.2	QA/QC Sample Analytical Results	10
5.0	SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS	10
5.1	SUMMARY OF ENVIRONMENTAL CONCERNS	10
5.2	SUMMARY OF SUBSURFACE INVESTIGATION	10
5.3	CONCLUSIONS.....	11
5.4	RECOMMENDATIONS.....	11
6.0	LIMITATIONS	11
7.0	SIGNATURES OF ENVIRONMENTAL PROFESSIONALS	12

Table of Contents (continued)



FIGURES

Figure 1 Topographic Location Map
Figure 2 Site Map with Soil Boring Locations
Figure 3 Site Map with Soil Analytical Results Exceeding Part 201 Generic RCC

TABLES

Table 1.....Summary of Soil Analytical Results
Footnotes

APPENDICES

Appendix A Soil Boring Logs
Appendix B Analytical Laboratory Report and Chain of Custody Documentation

PHASE II ENVIRONMENTAL SITE ASSESSMENT

220 N. Park Street, Ypsilanti, Michigan
AKT Peerless Project No. 10627F2-2-20

1.0 Introduction

On behalf of City of Ypsilanti, Downriver Community Conference Brownfield Consortium (DCCBC; the Client and Grantee) retained AKT Peerless to conduct a Phase II Environmental Site Assessment (ESA) of the property located at 220 N. Park Street in Ypsilanti, Washtenaw County, Michigan (the subject property). This Phase II ESA was conducted in accordance with (1) AKT Peerless' Work Order for Environmental Consulting Services (Work Order Number PF-27560-1), dated May 6, 2021, and (2) AKT Peerless' Work Plan/Sampling and Analysis Plan (SAP), dated May 14, 2021, and is based on ASTM International Standard Practice E 1903-11, *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process*.

This Phase II ESA was completed under DCCBC's United States Environmental Protection Agency (USEPA) Brownfields Assessment Grant (Cooperative Agreement BF-00E02888-0). On May 5, 2021, AKT Peerless submitted an eligibility determination letter to the USEPA Region 5 Brownfields Project Manager to allow for an assessment of the subject property under the hazardous substance assessment grant. USEPA accepted the eligibility determination on May 5, 2021.

The Phase II ESA scope of work was intended to evaluate the recognized environmental conditions (RECs) presented in Section 2.4.

AKT Peerless' Phase II ESA report documents the field activities, sampling protocols, and laboratory results associated with this assessment. AKT Peerless' Phase II ESA was performed for the benefit of DCCBC and City of Ypsilanti, who may rely on the contents and conclusions of this report.

2.0 Background

2.1 Site Description and Physical Setting

The subject property is located in the northeast ¼ of Section 9 (Township 3 South, Range 7 East), Ypsilanti, Washtenaw County, Michigan. The subject property is bordered to the west by N. Park Street, to the north by High Street, to the east by N. Grove Street, and to the south by a railroad. See the following table for additional subject property details:

Subject Property Identifiers

Address	Tax Identification Number	Owner of Record	Approximate Acreage
220 N. Park Street	11-11-09-111-004	City of Ypsilanti	4.46 acres

Refer to Figure 1 for a topographic site location map. See Figure 2 for a site map.

2.2 Subject Property History and Land Use

The subject property was owned by John Gilbert by 1859. John Gilbert constructed the existing mansion on the northern adjoining property at 227 N. Grove Street during his ownership and appears to have maintained the subject property as undeveloped grounds around the mansion until the mansion was vacated around 1928. The Gilbert mansion was briefly occupied by Arm of Honor Fraternity in the 1930s. In 1938, City of Ypsilanti acquired the subject property and Gilbert mansion through tax foreclosure and subsequently maintained the subject property as a recreational park. The Boys Club of Ypsilanti (later the Boys and Girls Club) appears to have begun using and/or maintaining the subject property by 1963. In the early 1970s, the Boys and Girls Club constructed the original portion of the former Club building, which was expanded in the 1990s. The Boys and Girls Club continued to occupy and maintain the subject property until vacating the former building in 2010. The former building and exterior basketball court and baseball diamond features were demolished in 2016. City of Ypsilanti has since kept the subject property in maintained lawn with no significant or obvious use.

2.3 Adjacent Property Land Use

The adjoining properties have included residential, light industrial, and industrial developments since at least 1916. The eastern adjoining property at 206 N. Grove Street was used for light industrial operations and oil storage between the 1950s and 1980s; the southern adjoining property at 103 N. Grove Street has been used for industrial operations since at least 1916; the southern adjoining property at 204 N. Park Street was used as a coal storage yard and bulk oil storage facility from at least 1927 until the 1970s; and the western adjoining property at 223 N. Park Street was used as a coal storage yard from at least 1916 until the 1960s.

2.4 Previous Environmental Investigations

In October 2015, AKT Peerless completed a Phase I ESA of the subject property. The Phase I ESA was conducted in accordance with USEPA Standards and Practices for All Appropriate Inquires [(AAI), 40 Code of Federal Regulations (CFR) Part 312] and ASTM International Standard Practice E 1527-13. At the time of the assessment, the subject property was improved with one two-story commercial building formerly used as the Boys and Girls Club recreation center and associated exterior baseball diamond, basketball court, and landscaped and parking areas. The commercial building was unoccupied and not used for a significant or obvious purpose at that time.

AKT Peerless identified the following RECs in connection with the subject property:

REC 1 - During AKT Peerless' Site Reconnaissance, fill material (soil and concrete) was observed within the thick vegetation located along the southern property boundary. The nature and extent of this fill material is unknown.

REC 2 - A southeastern adjoining property (206 N. Grove Street) was identified as an oil distributor which utilized a bulk oil storage yard from the mid-1950s until the late 1970s. This site was also listed as a State Hazardous Waste Site (SHWS) and was identified on the Baseline Environmental Assessment (BEA) database. In AKT Peerless' opinion, the past use of this adjoining property and identification on the SHWS and BEA databases represents an REC.

REC 3 - A southern adjoining property (204 N. Park Street) was utilized as a coal storage yard and bulk oil and gasoline storage facility in the 1920s until the early 1970s. No information regarding any current or former underground storage tanks (USTs), aboveground storage tanks (ASTs),

installation and removal dates, business practices, or other environmental data was identified. In AKT Peerless’ opinion, the past use of this adjoining property represents an REC.

REC 4 - A southern adjoining property (103 N. Grove Street) has been utilized for various industrial operations (including manufacturing, machine shop, foundry, and plating operations) from at least 1916 until the present day. This site was also listed on the Resource Conservation and Recovery Act (RCRA) and Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) databases with multiple hazardous waste violations identified. In AKT Peerless’ opinion, the current and past use of this adjoining property represents an REC.

REC 5 - A western adjoining property (223 N. Park Street) historically operated as a coal storage yard from at least 1916 until the mid-1960s. In AKT Peerless’ opinion, the past use of the western adjoining property represents an REC.

3.0 Phase II ESA Activities

The following sections summarize the subsurface investigation activities conducted by AKT Peerless.

3.1 Scope of Assessment

To further evaluate the above-identified RECs, AKT Peerless conducted a subsurface investigation at the subject property that included: (1) the advancement of four soil borings, and (2) the collection of five soil samples and one duplicate soil sample. The soil samples were submitted for laboratory analyses of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), polynuclear aromatic hydrocarbons (PNAs), Michigan 10 Metals,¹ arsenic, cadmium, chromium, lead, and/or hexavalent chromium. Groundwater was not encountered during subsurface investigation activities.

AKT Peerless also collected additional quality assurance/quality control (QA/QC) samples (e.g., trip, field, and equipment blanks, and matrix spike samples) for laboratory analyses, as discussed in Section 3.2.5 below.

The following table summarizes each REC, the site investigation activities performed to address each REC, and the laboratory parameters used to address each REC.

Summary of Investigation Activity

REC #	Environmental Concern	Investigation Activity	Analytical Parameters
1	Fill material on the southern portion of the subject property.	PS-SB-1 (1’-3’) Soil Duplicate (PS-SB-1, 1’-3’)	VOCs, SVOCs, Michigan 10 Metals, PCBs, and hexavalent chromium

¹ Michigan 10 Metals include arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, and zinc.

REC #	Environmental Concern	Investigation Activity	Analytical Parameters
2	Historical use of the southeastern adjoining property (206 N. Grove Street) as an oil distributor/bulk oil storage yard.	PS-SB-2 (17'-19')	VOCs, SVOCs, Michigan 10 Metals, and hexavalent chromium
3	Historical use of the southern adjoining property (204 N. Park Street) as a coal storage yard and bulk oil and gasoline facility.	PS-SB-1 (10'-12') PS-SB-3 (16'-18')	VOCs, PNAs, arsenic, cadmium, chromium, lead, and hexavalent chromium
4	Current and historical use of the southern adjoining property (103 N. Grove Street) for industrial operations.	PS-SB-1 (10'-12') PS-SB-2 (17'-19')	VOCs, SVOCs, PNAs, Michigan 10 Metals, arsenic, cadmium, chromium, lead, and/or hexavalent chromium
5	Historical use of the western adjoining property (223 N. Park Street) as a coal storage yard.	PS-SB-4 (6'-8')	VOCs, PNAs, arsenic

3.1.1 Soil Evaluation

On June 17, 2021, AKT Peerless advanced four soil borings at the subject property. AKT Peerless used hydraulic drive/direct-push (Geoprobe®) techniques and followed the guidance outlined in ASTM International Standard Practice E1903-11, *Standard Practice of Environmental Site Assessments: Phase II Environmental Site Assessment Process*. AKT Peerless collected continuous soil samples from the soil borings in four-foot intervals to the maximum depth explored of 32 feet below ground surface (bgs). AKT Peerless personnel inspected, field-screened, and logged the samples collected at each soil boring location.

Refer to Figure 2 for a site map with soil boring locations. Boring logs are provided in **Appendix A**.

3.1.2 Groundwater Evaluation

AKT Peerless did not encounter groundwater during subsurface investigation activities at the subject property.

3.1.3 Deviations from the Sampling and Analysis Plan

This Phase II ESA was completed under a USEPA Brownfields Assessment Grant awarded to DCCBC. On May 14, 2021, AKT Peerless prepared a Work Plan/SAP on behalf of DCCBC. On the same date, the Work Plan/SAP was approved by the USEPA Region 5 Brownfields Project Manager.

AKT Peerless did not deviate from the Work Plan/SAP, except for the following:

- Groundwater was not encountered during subsurface investigation activities at the subject property and was therefore not sampled. In addition, groundwater QA/QC samples were also not prepared and/or collected. Consistent with the Work Plan/SAP, soil samples were collected from soil borings PS-SB-1 through PS-SB-4 in lieu of groundwater samples to evaluate the RECs associated with adjoining properties.

3.2 Quality Assurance/Quality Control

To ensure the accuracy of data collected during on-site activities, AKT Peerless implemented proper QA/QC measures. The QA/QC procedures included, but were not limited to, the following: (1) decontamination of sampling equipment before and between sampling events; (2) calibration of field equipment; (3) documentation of field activities; and (4) sample preservation techniques.

3.2.1 Decontamination of Equipment

During sample collection, AKT Peerless adhered to proper decontamination procedures. Sampling equipment was decontaminated using the following methods to minimize potential cross-contamination of soil samples:

- Steam-cleaning or washing and scrubbing the equipment with non-phosphate detergent;
- Rinsing the equipment;
- Air-drying the equipment.

3.2.2 Calibration of Field Equipment

During subsurface investigation activities, a photoionization detector (PID) was used to screen all soil samples. The PID was maintained in a calibrated condition using 100 ppm isobutylene span gas prior to subsurface investigation activities.

3.2.3 Documentation of Activities

During subsurface investigation activities, subject property conditions (i.e., soil boring locations, weather conditions) were documented. AKT Peerless visually inspected soil samples and prepared a geologic log for each soil boring. The logs include soil characteristics such as (1) color, (2) composition (e.g., sand, clay, or gravel), (3) soil moisture and water table depth, and (4) signs of possible contamination (i.e., stained or discolored soil, odors). Soil types were classified in accordance with ASTM International Standard Practice D-2488, *Unified Soil Classification System*. All soil samples were delivered to ALS Environmental's analytical laboratory in Holt, Michigan under chain-of-custody documentation.

See **Appendix A** for AKT Peerless' soil boring logs. See Figure 2 for site map with soil boring locations.

3.2.4 Sample Preservation Techniques

AKT Peerless collected soil samples according to USEPA Publication SW-846, *Test Methods for Evaluating Solid Waste*. Soil samples were collected in laboratory-supplied containers, stored on ice or at approximately four degrees Celsius, and submitted under chain-of-custody documentation.

Soil samples collected for VOCs analyses were field preserved with methanol in accordance with USEPA Method 5035. Soil samples collected for SVOCs, PNAs, PCBs and metals analyses were stored in unpreserved, eight-ounce wide-mouth jars.

3.2.5 QA/QC Sample Collection

During subsurface investigation activities conducted at the subject property on June 17, 2021, AKT Peerless collected various QA/QC samples for the soil medium, as summarized in the following table.

Summary of QA/QC Sampling

QA/QC Samples						
Matrix	Duplicate	Matrix Spike (MS)	Matrix Spike Duplicate (MSD)	Trip/Methanol Blank	Field Blank	Equipment Blank
Soil	1	1	1	1	1	1

The duplicate sample was submitted for laboratory analyses of VOCs, SVOCs, Michigan 10 Metals, PCBs, and hexavalent chromium. The MS and MSD samples were submitted for laboratory analyses of VOCs, SVOCs, Michigan 10 Metals, and PCBs. The trip blank, methanol blank, and field blank were submitted for laboratory analyses of VOCs. The equipment blank was submitted for laboratory analyses of VOCs, SVOCs, and Michigan 10 Metals.

Analytical results associated with the soil duplicate sample is summarized and discussed in Section 4.2.1. Analytical results associated with the remaining QA/QC samples are summarized and discussed in Section 4.2.2.

3.3 Laboratory Analyses and Methods

AKT Peerless submitted five soil samples and one soil duplicate sample for laboratory analyses. The following table summarizes the location, depth, matrix, and laboratory analyses for each sample.

Sample Collection Summary

Sample Identification	Sample Matrix	Sample Interval (feet bgs)	Target Parameter(s)
PS-SB-1	Soil	(1'-3')	VOCs, SVOCs, Michigan 10 Metals, PCBs, and hexavalent chromium
Soil Duplicate (PS-SB-1)	Soil	(1'-3')	VOCs, SVOCs, Michigan 10 Metals, PCBs, and hexavalent chromium
PS-SB-1	Soil	(10'-12')	VOCs, PNAs, arsenic, cadmium, chromium, lead, and hexavalent chromium
PS-SB-2	Soil	(17'-19')	VOCs, SVOCs, Michigan 10 Metals, and hexavalent chromium
PS-SB-3	Soil	(16'-18')	VOCs, PNAs, arsenic, cadmium, chromium, lead, and hexavalent chromium

Sample Identification	Sample Matrix	Sample Interval (feet bgs)	Target Parameter(s)
PS-SB-4	Soil	(6'-8')	VOCs, PNAs, and arsenic

The laboratory analyzed the soil samples for: (1) VOCs in accordance with USEPA Method SW8260C; (2) mercury in accordance with USEPA Method SW7470A/SW7471B, (3) remaining Michigan 10 Metals in accordance with USEPA Method SW6020B, (4) SVOCs in accordance with USEPA Method SW846/8270D, (5) PNAs in accordance with USEPA Method SW8270E, (6) PCBs in accordance with USEPA Method SW8082, and (7) hexavalent chromium in accordance with USEPA Method SW7196A. Remaining QA/QC samples were analyzed in accordance with the same respective methods.

4.0 Evaluation and Presentation of Results

4.1 Subsurface Conditions

The following sections summarize the physical soil and groundwater conditions at the subject property.

4.1.1 Soil and Groundwater Conditions based on Published Material

According to the United States Department of Agriculture (USDA) Soil Conservation Service's (SCS's) publication, *Soil Survey of Washtenaw County, Michigan*, the soil in the area of the subject property consists of the Spinks-Boyer-Wasepi association, described as "nearly level to moderately steep, well drained and somewhat poorly drained soils that have a coarse textured or moderately coarse textured subsoil and coarse textured underlying material; on outwash plains, terraces, lake plains, and deltas." Photo Sheet 34 of the soil survey depicts the subject property within an area described as "Boyer loamy sand."

According to the Michigan Department of Natural Resources (MDNR) Geological Survey Division's publication, *Quaternary Geology of Southern Michigan*, the soil in the area of the subject property consists of lacustrine sand and gravel, described as pale brown to pale reddish brown, fine to medium sand, commonly including beds or lenses of small gravel, chiefly quartz sand but gravel is rich in igneous and metamorphic rocks. These soils occur chiefly as former beach and near-offshore littoral deposits of glacial Great Lakes and may include intercalated lacustrine clay. Locally veneered by discontinuous sheets or small dunes of eolian sand and may include areas of organic soils. In the eastern part of the northern peninsula of Michigan these sands commonly grade upstream (north- or northwest- ward) into outwash deposits. Soil thickness ranges from three to 100 feet. Typically, lacustrine sand and gravel are associated with moderate hydraulic permeability and may allow the movement of contaminants through groundwater.

No site-specific groundwater information was identified in published material.

4.1.2 Soil and Groundwater Conditions based on Field Observations

During drilling activities, AKT Peerless encountered the following soil types:

- FILL was encountered from ground surface to two to two and half feet bgs at soil boring locations PS-SB-1 and PS-SB-4. This fill material consisted of sand, gravel, and organics.
- Alternating layers of SAND and CLAY from ground surface to 32 feet bgs, the maximum depth explored. Typically, a surficial sand unit extending to an approximate depth of six feet bgs was

underlain by a clay unit of varying thickness, followed by an additional sand unit extending to 32 feet bgs, except at soil boring location PS-SB-4, where the clay unit extended to the boring termination depth of 20 feet bgs. The sand was brown, fine-grained, and contained varying amounts of silt, clay, and gravel, while the clay was brown/gray, medium-stiff, and contained varying amounts of sand and silt.

Groundwater was not encountered during subsurface investigation activities at the subject property.

With the exception of the surficial fill material encountered at soil boring locations PS-SB-1 and PS-SB-4, subsurface soils encountered at the subject property are generally consistent with the descriptions of the Spinks-Boyer-Wasepi association and lacustrine sand and gravel as described in *Soil Survey of Washtenaw County, Michigan* and *Quaternary Geology of Southern Michigan*, respectively.

See Figure 2 for a site map with soil boring locations. See **Appendix A** for AKT Peerless' soil boring logs.

4.2 Analytical Laboratory Results

AKT Peerless collected soil samples to evaluate subsurface conditions at the subject property. Analytical results were compared to Part 201 Generic Residential Cleanup Criteria (RCC) provided in Michigan Administrative Rules 299.1 through 299.50.

4.2.1 Soil Analytical Results

AKT Peerless submitted five soil samples and one soil duplicate sample for laboratory analysis of VOCs, SVOCs, PNAs, Michigan 10 Metals, PCBs, arsenic, cadmium, chromium, lead, and/or hexavalent chromium. The results of the laboratory analyses of the soil samples are summarized in the table below:

Summary of Soil Analytical Results

Parameter	Chemical Abstract Service (CAS) Number	Sample Identification with Criteria Exceedance (depth)	Part 201 Generic RCC Exceeded / Established Criteria (µg/kg)	Maximum Concentration Detected (µg/kg) / Sample Location
Arsenic	7440-38-2	PS-SB-1 (1'-3') Soil Duplicate (PS-SB-1, 1'-3')	DWP / 4,600 GSIP / 4,600	6,100 / PS-SB-1
Selenium	7440-49-2	PS-SB-1 (1'-3')	GSIP / 400	460 / PS-SB-1

Notes:

Sample identification: PS-SB-# indicates soil boring location and (#-#) indicates sample depth interval in feet bgs.

µg/kg – micrograms per kilogram

DWP – Drinking Water Protection Criteria

GSIP – Groundwater to Surface Water Interface Protection Criteria

In addition to the Part 201 Generic RCC exceedances listed above, concentrations of benzo(a)anthracene, benzo(a)pyrene, benzo(a)fluoranthene, chrysene, fluoranthene, and pyrene were detected in the shallow soil sample and soil duplicate sample collected from soil boring location PS-SB-1 at concentrations above analytical laboratory method detection limits (MDLs) but below Part 201

Generic RCC. As noted in Section 3.1, the shallow soil sample and soil duplicate sample were collected from soil boring location PS-SB-1 to evaluate on-site fill material.

Total chromium was identified in five soil samples (PS-SB-1, 1'-3'; Soil Duplicate; PS-SB-1, 10'-12'; PS-SB-2, 17'-19'; and PS-SB-3, 16'-18') at concentrations above Part 201 GSIP Criteria. AKT Peerless submitted these soil samples for laboratory analyses of hexavalent chromium. According to Michigan Department of Environment, Great Lakes, and Energy (EGLE), hexavalent chromium and trivalent chromium are the only forms of chromium found in the environment, and concentrations of trivalent chromium can be calculated by subtracting hexavalent chromium results from total chromium results. The laboratory analytical results indicate that hexavalent chromium was not present in the selected soil samples. Therefore, the identified total chromium concentrations in soil samples collected from the subject property is in trivalent form. The identified total chromium concentrations in soil samples collected from the subject property are below Part 201 Generic RCC.

Arsenic was detected at a concentration of 6,000 µg/kg in soil sample PS-SB-2 (17'-19'). This soil sample was collected from native sand. While this concentration exceeds Generic Part 201 RCC for DWP and GSIP, no obvious evidence of contamination (e.g., visual, olfactory observations, PID readings, or the presence of VOCs or SVOCs) that could be attributed to the current or historical uses of the southeastern and/or southern adjoining properties was identified at this soil boring location. In AKT Peerless' opinion, it does not appear that the concentration of arsenic detected in soil sample PS-SB-2 (17'-19') is indicative of a release and is likely representative of naturally occurring, or "background," conditions. According to Guide Sheet 10 of EGLE's July 2006 *Part 201 Training Manual*, "background" is defined as the concentration or level of a hazardous substance which exists in the environment at – or regionally proximate to – a "facility" that is not attributable to any release at or regionally proximate to the "facility." Guide Sheet 10 allows for the calculation of alternative background concentrations using the methods described in the EGLE's Sampling Strategies and Statistics Training Materials (S³TM). Of the methods described in the S³TM, AKT Peerless evaluated arsenic concentrations using the Michigan Background Soil Survey (Updated 2015; MBSS), which is included as Appendix C to EGLE's September 2019 *Soil Background and Use of the 2005 Michigan Background Soil Survey, Resource Materials* publication. The MBSS is meant to provide a resource regarding the concentration of naturally occurring metals that can be expected in various soil types and geographic areas of Michigan.

AKT Peerless compared the concentration of arsenic detected in soil sample PS-SB-2 (17'-19') to the MBSS arsenic background concentrations for native sand calculated from (1) statewide data and (2) Huron-Erie Glacial Lobe data. The concentration of arsenic detected in soil sample PS-SB-2 (17'-19'; i.e., 6,000 µg/kg) does not exceed either the statewide background arsenic concentration (i.e., 16,500 µg/kg) or the Huron-Erie Glacial Lobe background arsenic concentration (i.e., 26,300 µg/kg). Therefore, in AKT Peerless' opinion, the concentration of arsenic detected in soil sample PS-SB-2 (17'-19') is not indicative of a release of a hazardous substance and should not be used to qualify the subject property as a "facility," as defined in Part 201 of the Natural Resources and Environmental Protection Act, Michigan Public Act 451 of 1994, as amended (NREPA). AKT Peerless notes that, because the shallow soil sample and soil duplicate sample collected from soil boring location PS-SB-1 consisted of fill material, and due to the presence of low concentrations of other hazardous substances (e.g., PNAs) in these samples, the analytical results for these samples are still valid for qualifying the subject property as a "facility" despite the detection of similar concentrations of arsenic (i.e., 6,100 µg/kg and 5,900 µg/kg, respectively) to the concentration of arsenic identified in soil sample PS-SB-2 (17'-19').

Barium, cadmium, copper, lead, and zinc were also identified in various soil samples collected from the subject property at concentrations above analytical laboratory MDLs, but below Part 201 Generic RCC. PCBs, SVOCs (other than low concentrations of the PNAs identified above), and VOCs were not detected in soil samples collected from the subject property at concentrations above analytical laboratory MDLs or Part 201 Generic RCC.

Refer to Figure 3 for a site map with soil analytical results exceeding Part 201 Generic RCC. Refer to Table 1 for a summary of soil analytical results.

4.2.2 QA/QC Sample Analytical Results

Beyond the soil duplicate sample, AKT Peerless submitted one trip blank, one methanol blank, one soil equipment blank, one soil field blank, one soil MS sample, and one soil MSD sample for laboratory analyses.

Target parameters were not identified at concentrations above analytical laboratory MDLs in the blanks. The recovery of three SVOCs, and five to six VOCs, and four to five metals were reported as being outside control limits in the MS and MSD samples. No other spike results were qualified.

Refer to **Appendix B** for a complete analytical laboratory report.

5.0 Summary, Conclusions, and Recommendations

The following sections summarize the subsurface investigation activities conducted by AKT Peerless at the subject property.

5.1 Summary of Environmental Concerns

Based on AKT Peerless' October 2015 Phase I ESA, the following RECs were identified:

- Fill material on the southern portion of the subject property;
- Historical use of the southeastern adjoining property (206 N. Grove Street) as an oil distributor/bulk oil storage yard;
- Historical use of the southern adjoining property (204 N. Park Street) as a coal storage yard and bulk oil and gasoline facility;
- Current and historical use of the southern adjoining property (103 N. Grove Street) for industrial operations; and
- Historical use of the western adjoining property (223 N. Park Street) as a coal storage yard.

5.2 Summary of Subsurface Investigation

On June 17, 2021, AKT Peerless conducted a subsurface investigation at the subject property to evaluate the above-identified RECs. The subsurface investigation included: 1) the advancement of four soil borings, and (2) the collection of five soil samples and one duplicate soil sample. The soil samples were submitted for laboratory analyses of VOCs, SVOCs, PCBs, PNAs, Michigan 10 Metals, arsenic, cadmium, chromium, lead, and/or hexavalent chromium.

5.3 Conclusions

AKT Peerless conducted soil sampling in areas most likely to be impacted by contaminants based on the location of observed on-site fill material at the subject property and the current and/or historical uses of select adjoining properties. The results of the investigation indicate the following:

- Arsenic was detected in one shallow subsurface soil sample and one soil duplicate sample collected from soil boring location PS-SB-1, which was advanced in part to evaluate on-site fill material, at concentrations exceeding the Part 201 Generic RCC, including GSIP and DWP criteria.
- Selenium was also detected in one shallow subsurface soil sample collected from soil boring location PS-SB-1, which was advanced in part to evaluate on-site fill material, at a concentration exceeding the Part 201 Generic GSIP criteria.

Based on the laboratory analytical results associated with the shallow soil sample and soil duplicate sample collected from soil boring location PS-SB-1, the subject property meets the definition of a “facility,” as defined in Part 201 of the NREPA.

5.4 Recommendations

AKT Peerless recommends any future owner(s)/operator(s) prepare a BEA. Section 26(1)(c) of Part 201 provides certain liability protections to a person who becomes an owner or operator of a “facility” on, or after June 5, 1995 if they comply with both of the following, or unless other defenses apply: a BEA is conducted prior to or within 45 days after the earlier of the date of purchase, occupancy, or foreclosure, and the owner or operator discloses the results of the BEA to EGLE Remediation and Redevelopment Division (RRD) and subsequent purchaser(s) or transferee(s).

In addition, because the subject property meets the definition of a “facility,” AKT Peerless recommends the property owner comply with Due Care obligations. Due Care obligations include:

- Undertaking measures to prevent exacerbation of existing contamination.
- Exercising Due Care by undertaking response activities to mitigate unacceptable exposure to hazardous substances, mitigate fire and explosion hazards due to hazardous substances, and allow for the intended use of the subject property in a manner that protects health and safety.
- Taking reasonable precautions against the reasonably foreseeable acts or omissions of a third party and the consequences that could result from those acts or omissions.
- Provide notifications to EGLE and others in regard to mitigating fire and explosions hazards, discarded or abandoned containers, contamination migrating beyond property boundaries, as applicable.
- Comply with any land use or resource use restrictions established or relied on in connection with the response activities at the facility.
- Not impede the effectiveness or integrity of any land use or resource use restrictions employed at the facility in connection with response activities.

6.0 Limitations

The information and opinions obtained in this report are for the exclusive use of DCCBC and City of Ypsilanti. No distribution to or reliance by other parties may occur without the express written permission of AKT Peerless. AKT Peerless will not distribute this report without your written consent or as required by law or by a Court order. The information and opinions contained in the report are given in

light of that assignment. The report must be reviewed and relied upon only in conjunction with the terms and conditions expressly agreed upon by the parties and as limited therein. Any third parties who have been extended the right to rely on the contents of this report by AKT Peerless (which is expressly required prior to any third-party release), expressly agrees to be bound by the original terms and conditions entered into by AKT Peerless and DCCBC.

Subject to the above and the terms and conditions, AKT Peerless accepts responsibility for the competent performance of its duties in executing the assignment and preparing reports in accordance with the normal standards of the profession, but disclaims any responsibility for consequential damages. Although AKT Peerless believes that results contained herein are reliable, AKT Peerless cannot warrant or guarantee that the information provided is exhaustive or that the information provided by DCCBC, City of Ypsilanti, or third parties is complete or accurate.

7.0 Signatures of Environmental Professionals

The following individuals contributed to the completion of this report.



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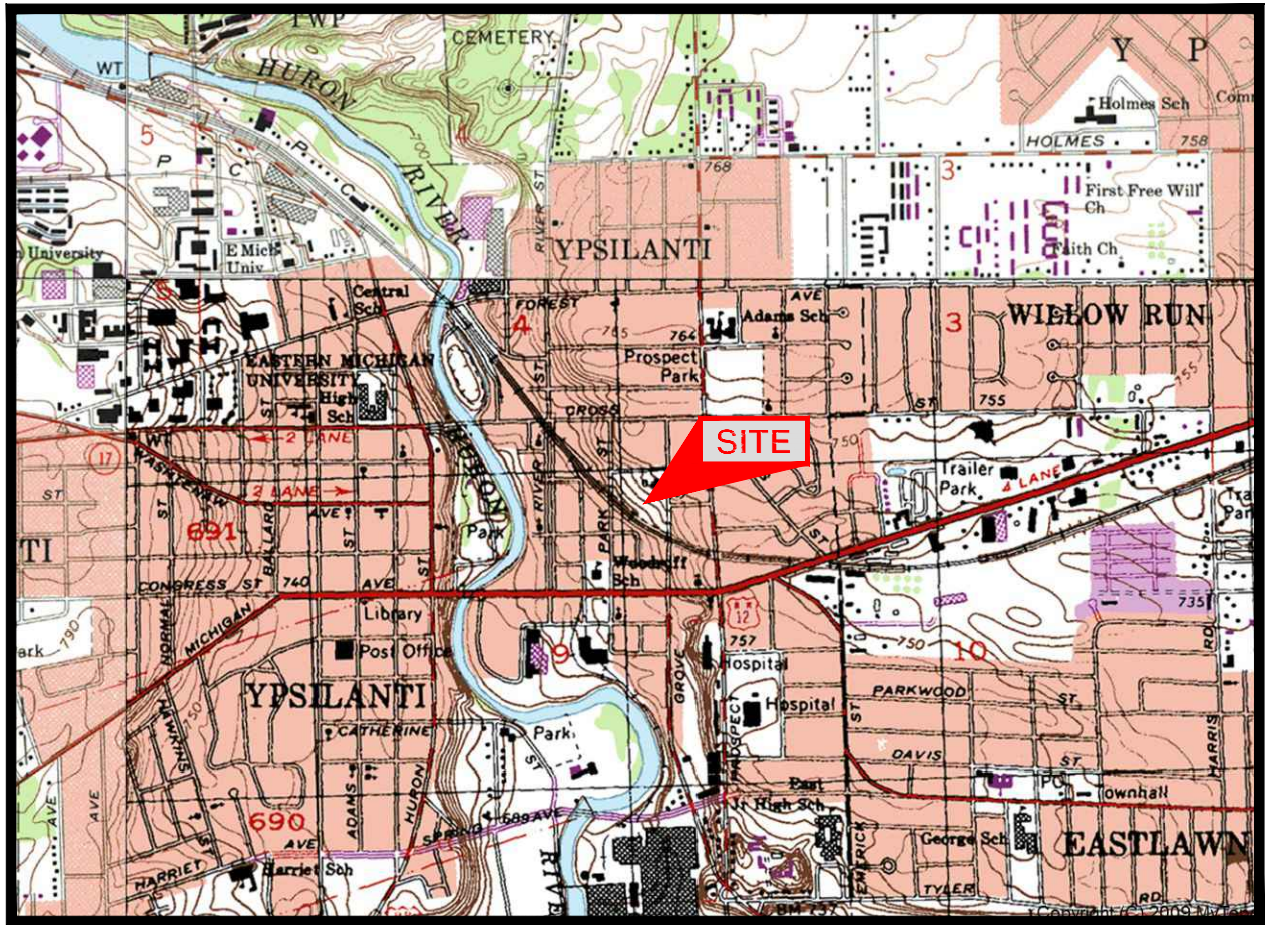
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FIGURES

YPSILANTI EAST QUADRANGLE
 MICHIGAN - WASHTENAW COUNTY
 7.5 MINUTE SERIES (TOPOGRAPHIC)



T.3 S.-R.7 E.

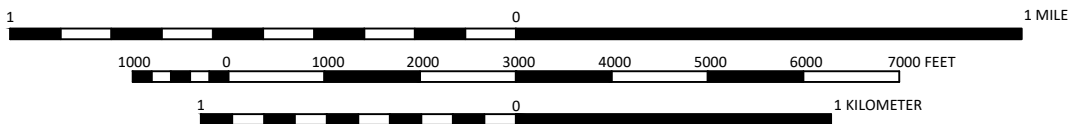
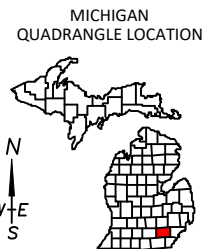


IMAGE TAKEN FROM 1996 U.S.G.S. TOPOGRAPHIC MAP



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 ENVIRONMENTAL SERVICES

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TOPOGRAPHIC LOCATION MAP

220 N. PARK STREET
 YPSILANTI, MICHIGAN
 PROJECT NUMBER : 10627F2-2-20

DRAWN BY: MST
 DATE: 09/01/2021

FIGURE 1



GREAT LAKES DESIGN, LLC
301 N. PARK STREET

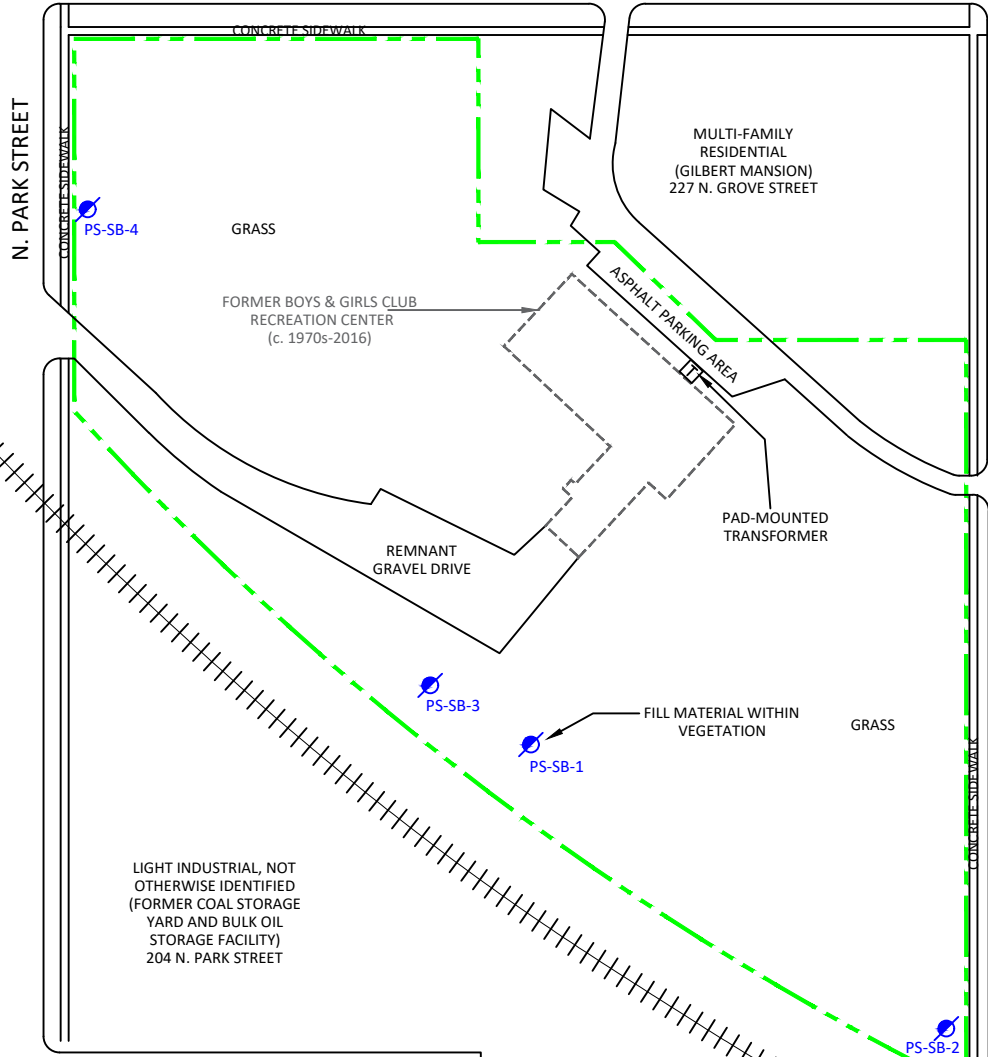
SINGLE-FAMILY RESIDENTIAL
302 NORTH PARK STREET

SINGLE-FAMILY RESIDENTIAL
313 HIGH STREET

SINGLE-FAMILY RESIDENTIAL
315 HIGH STREET

HIGH STREET

UNDEVELOPED LAND,
REMNANT PAVED
PARKING LOT
(FORMER COAL
STORAGE LOT)
223 N. PARK STREET



N. PARK STREET

SINGLE-FAMILY RESIDENTIAL
215 N. PARK STREET

SINGLE-FAMILY RESIDENTIAL
213 N. PARK STREET

LIGHT INDUSTRIAL, NOT OTHERWISE IDENTIFIED
(FORMER COAL STORAGE YARD AND BULK OIL STORAGE FACILITY)
204 N. PARK STREET

NORTH STREET

N. GROVE STREET

SINGLE-FAMILY RESIDENTIAL
224 N. GROVE STREET

SINGLE-FAMILY RESIDENTIAL
220 N. GROVE STREET

SINGLE-FAMILY RESIDENTIAL
216 N. GROVE STREET

LOCUST STREET

SINGLE-FAMILY RESIDENTIAL
410 LOCUST STREET

SINGLE-FAMILY RESIDENTIAL
214 N. GROVE STREET

SINGLE-FAMILY RESIDENTIAL
212 N. GROVE STREET

SINGLE-FAMILY RESIDENTIAL
208 N. GROVE STREET

UNDEVELOPED LAND,
REMNANT PAVED
PARKING LOT
(FORMER LIGHT INDUSTRIAL AND OIL STORAGE)
(BEA, SHWS, UST, RCRA NON-GEN, WDS, FIND/FRS)
206 N. GROVE STREET

LEGEND
 = PROPERTY LINE
 = SOIL BORING

MARSH PLATING
(FORMER FOUNDRY & MANUFACTURING)
103 N. GROVE STREET
(CERCLIS NFRAP, RCRA TSD, RCRA LQG, UST, AST, DESLISTED TANK, WDS)



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SITE MAP WITH SOIL BORING LOCATIONS

220 N. PARK STREET
YPSILANTI, MICHIGAN
PROJECT NUMBER: 10627F2-2-20

DRAWN BY: MST/OGO
DATE: 07/28/2021

0 60 120
SCALE: 1" = 120'

FIGURE 2



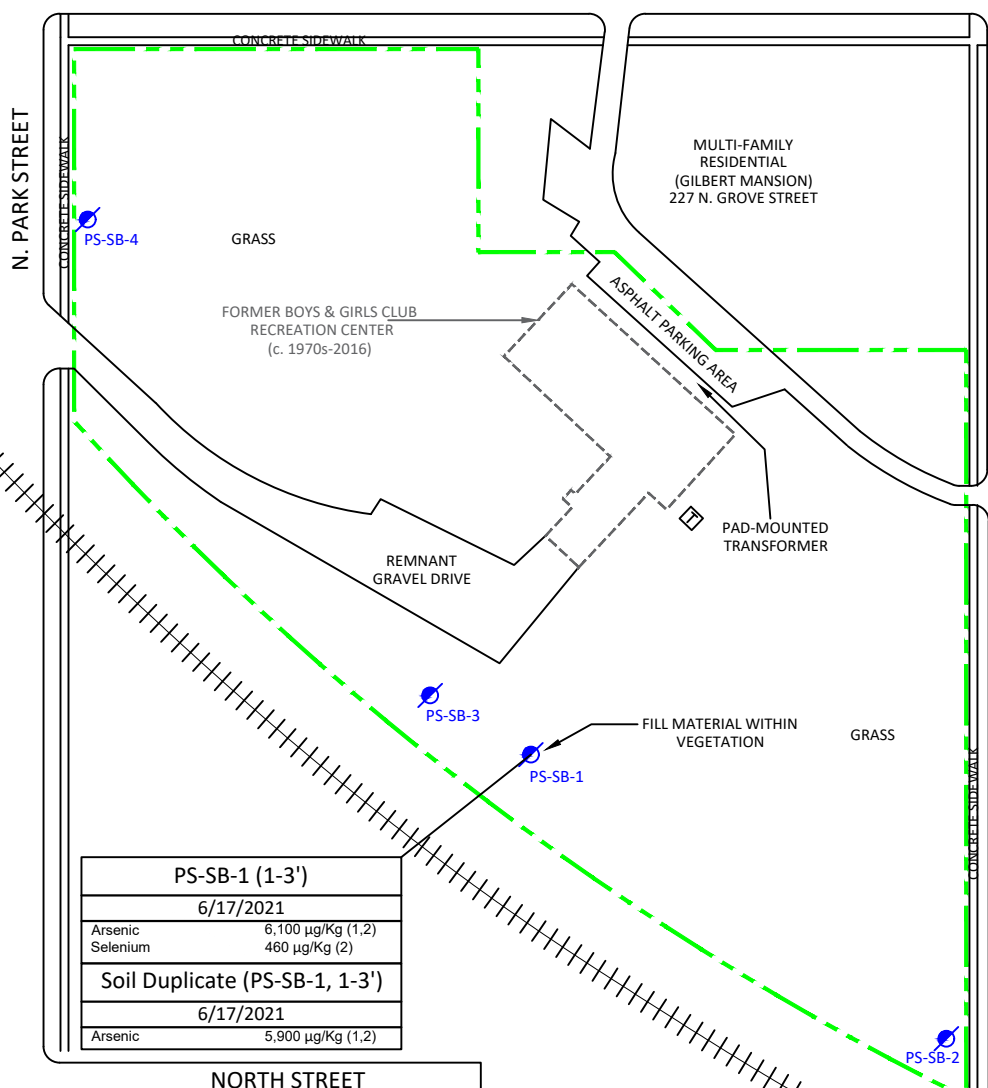
GREAT LAKES DESIGN, LLC
301 N. PARK STREET

SINGLE-FAMILY RESIDENTIAL
302 NORTH PARK STREET

SINGLE-FAMILY RESIDENTIAL
313 HIGH STREET

SINGLE-FAMILY RESIDENTIAL
315 HIGH STREET

UNDEVELOPED LAND,
REMNANT PAVED
PARKING LOT
(FORMER COAL
STORAGE LOT)
223 N. PARK STREET



SINGLE-FAMILY RESIDENTIAL
215 N. PARK STREET

SINGLE-FAMILY RESIDENTIAL
213 N. PARK STREET

MULTI-FAMILY RESIDENTIAL
(GILBERT MANSION)
227 N. GROVE STREET

SINGLE-FAMILY RESIDENTIAL
224 N. GROVE STREET

SINGLE-FAMILY RESIDENTIAL
220 N. GROVE STREET

SINGLE-FAMILY RESIDENTIAL
216 N. GROVE STREET

LOCUST STREET

SINGLE-FAMILY RESIDENTIAL
410 LOCUST STREET

SINGLE-FAMILY RESIDENTIAL
214 N. GROVE STREET
SINGLE-FAMILY RESIDENTIAL
212 N. GROVE STREET

SINGLE-FAMILY RESIDENTIAL
208 N. GROVE STREET

UNDEVELOPED LAND,
REMNANT PAVED
PARKING LOT
(FORMER LIGHT INDUSTRIAL AND
OIL STORAGE)
(BEA, SHWS, UST, RCRA
NON-GEN, WDS,
FIND/FRS)
206 N. GROVE STREET

PS-SB-1 (1-3')	
6/17/2021	
Arsenic	6,100 µg/Kg (1,2)
Selenium	460 µg/Kg (2)
Soil Duplicate (PS-SB-1, 1-3')	
6/17/2021	
Arsenic	5,900 µg/Kg (1,2)

LEGEND
 = PROPERTY LINE
 = SOIL BORING

CRITERIA NOTE

- (1) - Exceeds Residential Drinking Water Protection Criteria
- (2) - Exceeds Groundwater Surface Water Interface Protection Criteria

MARSH PLATING
(FORMER FOUNDRY & MANUFACTURING)
103 N. GROVE STREET
(CERCLIS NFRAP, RCRA TSD, RCRA LQG,
UST, AST, DESLISTED TANK, WDS)



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**SITE MAP WITH SOIL ANALYTICAL RESULTS
EXCEEDING PART 201 GENERIC RCC**

220 N. PARK STREET
YPSILANTI, MICHIGAN
PROJECT NUMBER: 10627F2-2-20

DRAWN BY: MST/OGO
DATE: 07/28/2021

0 60 120
SCALE: 1" = 120'

FIGURE 3

TABLES

Table 1: Summary of Soil Analytical Results
220 N. Park Street
Ypsilanti, Michigan
AKT Peerless Project No. 10627F2-2-20

Parameters <i>(Refer to detailed laboratory report for method reference data)</i>	Chemical Abstract Service Number	Statewide Default Background Levels	MBSS (2015) Arsenic Background Concentration for Sand, Combined Statewide Data	MBSS (2015) Arsenic Background Concentration for Sand, Huron-Erie Glacial Lobe Data	Residential Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Residential Soil Volatilization to Indoor Air Inhalation Criteria	Residential Infinite Source Volatile Soil Inhalation Criteria	Residential Particulate Soil Inhalation Criteria	Residential Direct Contact Criteria	Soil Saturation Concentration Screening Levels	Maximum Concentration Detected	Sample Location	PS-SB-1	Soil Duplicate (PS-SB-1)	PS-SB-1	PS-SB-2	PS-SB-3	PS-SB-4	
													Collection Date	6/17/2021	6/17/2021	6/17/2021	6/17/2021	6/17/2021	6/17/2021	
													Sample Depth Interval	1'-3'	1'-3'	10'-12'	17'-19'	16'-18'	6'-8'	
		µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Metals																				
Arsenic	7440-38-2	5,800	16,500	26,300	4,600	4,600	NLV	NLV	7.20E+05	7,600	NA	6,100		6,100	5,900	<2,000	6,000*	4,000	2,100	
Barium (B)	7440-39-3	75,000	NA	NA	1.30E+06	(G)	NLV	NLV	3.30E+08	3.70E+07	NA	44,000		41,000	44,000	NS	16,000	NS	NS	
Cadmium (B)	7440-43-9	1,200	NA	NA	6,000	(G,X)	NLV	NLV	1.70E+06	5.50E+05	NA	230		230	230	<200	220	<200	NS	
Chromium, Total	7440-47-3	18,000 (total)	NA	NA	30,000	3,300	NLV	NLV	2.60E+05	2.50E+06	NA	BDL		-	-	-	-	-	NS	
Chromium III (B,H)	16065-83-1	18,000 (total)	NA	NA	1.0E+9 (D)	(G,X)	NLV	NLV	3.3E+8	7.9E+8	NA	13,000		9,400	12,000	13,000	5,100	11,000	NS	
Chromium VI	18540-29-9	NA	NA	NA	30,000	3,300	NLV	NLV	2.6E+5	2.5E+6	NA	BDL		<2,000	<2,000	<2,000	<2,000	<2,000	NS	
Copper (B)	7440-50-8	32,000	NA	NA	5.80E+06	(G)	NLV	NLV	1.30E+08	2.00E+07	NA	14,000		13,000	14,000	NS	10,000	NS	NS	
Lead (B)	7439-92-1	21,000	NA	NA	7.00E+05	(G,X)	NLV	NLV	1.00E+08	4.00E+05	NA	32,000		32,000	32,000	<10,000	<10,000	<10,000	NS	
Mercury, Total	7439-97-6	130	NA	NA	1,700	50 (M); 1.2	48,000	52,000	2.00E+07	1.60E+05	NA	NS/BDL		<50	<50	NS	<50	NS	NS	
Selenium (B)	7782-49-2	410	NA	NA	4,000	400	NLV	NLV	1.30E+08	2.60E+06	NA	460		460	<400	NS	<350	NS	NS	
Silver (B)	7440-22-4	1,000	NA	NA	4,500	100 (M); 27	NLV	NLV	6.70E+06	2.50E+06	NA	NS/BDL		<430	<400	NS	<350	NS	NS	
Zinc (B)	7440-66-6	47,000	NA	NA	2.40E+06	(G)	NLV	NLV	ID	1.70E+08	NA	45,000		44,000	45,000	NS	43,000	NS	NS	
Polychlorinated biphenyls (PCBs)																				
Polychlorinated biphenyls (PCBs) (J,T)	1336-36-3	NA	NA	NA	NLL	NLL	3.00E+06	2.40E+05	5.20E+06	(T)	NA	NS/BDL		BDL	BDL	NS	NS	NS	NS	
Polynuclear Aromatic Hydrocarbons (PNAs)																				
Benzo(a)anthracene (Q)	56-55-3	NA	NA	NA	NLL	NLL	NLV	NLV	ID	20,000	NA	360		360	<330	<330	<330	<330	<330	<330
Benzo(a)pyrene (Q)	50-32-8	NA	NA	NA	NLL	NLL	NLV	NLV	1.50E+06	2,000	NA	370		370	<330	<330	<330	<330	<330	<330
Benzo(b)fluoranthene (Q)	205-99-2	NA	NA	NA	NLL	NLL	ID	ID	ID	20,000	NA	540		540	470	<330	<330	<330	<330	<330
Chrysene (Q)	218-01-9	NA	NA	NA	NLL	NLL	ID	ID	ID	2.00E+06	NA	390		390	<330	<330	<330	<330	<330	<330
Fluoranthene	206-44-0	NA	NA	NA	7.30E+05	5,500	1.0E+9 (D)	7.40E+08	9.30E+09	4.60E+07	NA	610		610	470	<330	<330	<330	<330	<330
Pyrene	129-00-0	NA	NA	NA	4.80E+05	ID	1.0E+9 (D)	6.50E+08	6.70E+09	2.90E+07	NA	540		520	540	<330	<330	<330	<330	<330
Remaining PNAs	Various	-	NA	NA	-	-	-	-	-	-	-	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Semivolatile Organic Compounds (SVOCs)																				
SVOCs	Various	-	NA	NA	-	-	-	-	-	-	-	NS/BDL		BDL	BDL	NS	BDL	NS	NS	NS
Volatile Organic Compounds (VOCs)																				
VOCs	Various	-	NA	NA	-	-	-	-	-	-	-	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL

*Result excluded as qualification of the subject property as a Part 201 "facility" based on field observations, analytical laboratory results, and a comparison of the result to MBSS (2015) background arsenic concentrations for native sand (statewide and Huron-Erie Glacial Lobe data).

- (A) Criterion is the state of Michigan drinking water standard established pursuant to Section 5 of 1976 PA 399, MCL 325.1005.
- (B) Background, as defined in R 299.1(b), may be substituted if higher than the calculated cleanup criterion. Background levels may be less than criteria for some inorganic compounds.
- (C) The criterion developed under R 299.20 to R 299.26 exceeds the chemical-specific soil saturation screening level (C_{sat}). The person proposing or implementing response activity shall document whether additional response activity is required to control free-phase liquids or NAPL to protect against risks associated with free-phase liquids by using methods appropriate for the free-phase liquids present. Development of a site-specific C_{sat} or methods presented in R 299.22, R 299.24(5), and R 299.26(8) may be conducted for the relevant exposure pathways.
- (D) Calculated criterion exceeds 100 percent, hence it is reduced to 100 percent or $1.0E+9$ parts per billion (ppb).
- (E) Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA). A notice of aesthetic impact may be employed as an institutional control mechanism if groundwater concentrations exceed the aesthetic drinking water criterion, but do not exceed the applicable health-based drinking water value [as provided in the table in Footnote (E) in R 299.49].
- (F) Criterion is based on adverse impacts to plant life and phytotoxicity.
- (G) Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water. Where water hardness exceeds 400 mg $CaCO_3/L$, use 400 mg $CaCO_3/L$ for the FCV calculation. The FCV formula provides values in units of ug/L or ppb. The generic GSI criterion is the lesser of the calculated FCV, the wildlife value (WV), and the surface water human non-drinking water value (HNDV). The soil GSI protection criteria for these hazardous substances are the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote. [See table in Footnote (G) in R 299.49].
- (H) Valence-specific chromium data (Cr III and Cr VI) shall be compared to the corresponding valence-specific cleanup criteria. If both Cr III and Cr VI are present in groundwater, the total concentration of both cannot exceed the drinking water criterion of 100 ug/L . If analytical data are provided for total chromium only, they shall be compared to the cleanup criteria for Cr VI. Cr III soil cleanup criterion for protection of drinking water can only be used at sites where groundwater is prevented from being used as a public water supply, currently and in the future, through an approved land or resource use restriction.
- (I) Hazardous substance may exhibit the characteristic of ignitability as defined in 40 C.F.R. §261.21 (revised as of July 1, 2001), which is adopted by reference in these rules.
- (J) Hazardous substance may be present in several isomer forms. Isomer-specific concentrations shall be added together for comparison to criteria.
- (K) Hazardous substance may be flammable or explosive, or both.
- (L) Criteria for lead are derived using a biologically based model, as allowed for under Section 20120a(9) of the NREPA, and are not calculated using the algorithms and assumptions specified in pathway-specific rules. The generic residential drinking water criterion of 4 ug/L is linked to the generic residential soil direct contact criterion of 400 mg/kg. A higher concentration in the drinking water, up to the state action level of 15 ug/L , may be allowed as a site-specific remedy and still allow for drinking water use, under Section 20120a(2) of the NREPA if soil concentrations are appropriately lower than 400 mg/kg. If a site-specific criterion is approved based on this subdivision, a notice shall be filed on the deed for all property where the groundwater concentrations will exceed 4 ug/L to provide notice of the potential for unacceptable risk if soil or groundwater concentrations increase. Acceptable concentrations of site-specific soil and drinking water concentrations are presented in the [table in Footnote (L) in R 299.49].
- (M) Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.
- (N) The concentrations of all potential sources of nitrate-nitrogen (e.g., ammonia-N, nitrite-N, nitrate-N) in groundwater that is used as a source of drinking water shall not, when added together, exceed the nitrate drinking water criterion of 10,000 ug/L . Where leaching to groundwater is a relevant pathway, soil concentrations of all potential sources of nitrate-nitrogen shall not, when added together, exceed the nitrate drinking water protection criterion of $2.0E+5$ ug/kg .
- (O) The concentration of all polychlorinated and polybrominated dibenzodioxin and dibenzofuran isomers present at a facility, expressed as an equivalent concentration of 2,3,7,8-tetrachlorodibenzo-p-dioxin based upon their relative potency, shall be added together and compared to the criteria for 2,3,7,8-tetrachlorodibenzo-p-dioxin. The generic cleanup criteria for 2,3,7,8-tetrachlorodibenzo-p-dioxin are not calculated according to the algorithms presented in R 299.14 to R 299.26. The generic cleanup criteria are being held at the values that the DEQ has used since August 1998, in recognition of the fact that national efforts to reassess risks posed by dioxin are not yet complete. Until these studies are complete, it is premature to select a revised slope factor and/or reference dose for calculation of generic cleanup criteria.
- (P) Amenable cyanide methods or method OIA-1677 shall be used to quantify cyanide concentrations for compliance with all groundwater criteria. Total cyanide methods or method OIA-1677 shall be used to quantify cyanide concentrations for compliance with soil criteria. Nonresidential direct contact criteria may not be protective of the potential for release of hydrogen cyanide gas. Additional land or resource use restrictions may be necessary to protect for the acute inhalation concerns associated with hydrogen cyanide gas.
- (Q) Criteria for carcinogenic polycyclic aromatic hydrocarbons were developed using relative potential potencies to benzo(a)pyrene.
- (R) Hazardous substance may exhibit the characteristic of reactivity as defined in 40 C.F.R. §261.23 (revised as of July 1, 2001), which is adopted by reference in these rules.
- (S) Criterion defaults to the hazardous substance-specific water solubility limit.
- (T) Refer to the federal Toxic Substances Control Act (TSCA), 40 C.F.R. §761, subpart D and 40 C.F.R. §761, Subpart G, to determine the applicability of TSCA cleanup standards. Subpart D and subpart G of 40 C.F.R. §761 (July 1, 2001) are adopted by reference in these rules. Alternatives to compliance with the TSCA standards listed below are possible under 40 C.F.R. §761 Subpart D. New releases may be subject to the standards identified in 40 C.F.R. §761, Subpart G. Use Part 201 soil direct contact cleanup criteria in the following table if TSCA standards are not applicable. [See table in Footnote (T) in R 299.49].
- (U) Hazardous substance may exhibit the characteristic of corrosivity as defined in 40 C.F.R. §261.22 (revised as of July 1, 2001), which is adopted by reference in these rules.
- (V) Criterion is the aesthetic drinking water value as required by Section 20120a(5) of the NREPA. Concentrations up to 200 ug/L may be acceptable, and still allow for drinking water use, as part of a site-specific cleanup under Section 20120a(2) and 20120b of the NREPA.
- (W) Concentrations of trihalomethanes in groundwater shall be added together to determine compliance with the Michigan drinking water standard of 80 ug/L . Concentrations of trihalomethanes in soil shall be added together to determine compliance with the drinking water protection criterion of 1,600 ug/kg .
- (X) The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source. For a groundwater discharge to the Great Lakes and their connecting waters or discharge in close proximity to a water supply intake in inland surface waters, the generic GSI criterion shall be the surface water human drinking water value (HDV) listed in the [table in Footnote (X) in R 299.49], except for those HDV indicated with an asterisk. For HDV with an asterisk, the generic GSI criterion shall be the lowest of the HDV, the WV, and the calculated FCV. See formulas in [the table in Footnote (G) in R 299.49]. Soil protection criteria based on the HDV shall be as listed in the [table in Footnote (X) in R 299.49], except for those values with an asterisk. Soil GSI protection criteria based on the HDV shall be as listed in the [table in Footnote (X) in R 299.49], except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk shall be the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.
- (Y) Source size modifiers shown in the [table in Footnote (Y) in R 299.49] shall be used to determine soil inhalation criteria for ambient air when the source size is not one-half acre. The modifier shall be multiplied by the generic soil inhalation criterion shown in the table of generic cleanup criteria to determine the applicable criterion. See Footnote (C) in R 299.49.
- (Z) Mercury is typically measured as total mercury. The generic cleanup criteria, however, are based on data for different species of mercury. Specifically, data for elemental mercury, chemical abstract service (CAS) number 7439976, serve as the basis for the soil volatilization to indoor air criteria, groundwater volatilization to indoor air, and soil inhalation criteria. Data for methyl mercury, CAS number 22967926, serve as the basis for the GSI criterion; and data for mercuric chloride, CAS number 7487947, serve as the basis for the drinking water, groundwater contact, soil direct contact, and the groundwater protection criteria. Comparison to criteria shall be based on species-specific analytical data only if sufficient facility characterization has been conducted to rule out the presence of other species of mercury.
- (AA) Use 10,000 ug/L where groundwater enters a structure through the use of a water well, sump or other device. Use 28,000 ug/L for all other uses.
- (BB) The state drinking water standard for asbestos (fibers greater than 10 micrometers in length) is in units of a million fibers per liter of water (MFL). Soil concentrations of asbestos are determined by polarized light microscopy.
- (CC) Groundwater: The generic GSI criteria are based on the toxicity of unionized ammonia (NH_3); the criteria are 29 ug/L and 53 ug/L for cold water and warm water surface water, respectively. As a result, the GSI criterion shall be compared to the percent of the total ammonia concentration in the groundwater that will become NH_3 in the surface water. This percent NH_3 is a function of the pH and temperature of the receiving surface water and can be estimated using the [table in Footnote (CC) in R 299.49], taken from Emerson, et al., (Journal of the Fisheries Research Board of Canada, Volume 32(12):2382, 1975). The generic approach for estimating NH_3 assumes a default pH of 8 and default temperatures of 68 °F and 85 °F for cold water and warm water surface water, respectively. The resulting NH_3 is 3.8 percent and 7.2 percent for cold water and warm water, respectively. This default percentage shall be multiplied by the total ammonia-nitrogen (NH_3-N) concentration in the groundwater and the resulting NH_3 concentration compared to the applicable GSI criterion. As an alternative, the maximum pH and temperature data from the specific receiving surface water can be used to estimate, from the [table in Footnote (CC) in R 299.49], a lower percent unionized ammonia concentration for comparison to the generic GSI.
Soil: The generic soil GSI protection criteria for unionized ammonia are 580 ug/kg and 1,100 ug/kg for cold water and warm water surface water, respectively.
- (DD) Hazardous substance causes developmental effects. Residential direct contact criteria are protective of both prenatal and postnatal exposure. Nonresidential direct contact criteria are protective for a pregnant adult receptor.
- (EE) The [values listed in the table in Footnote (EE) in 299.49] are applicable generic GSI criteria as required by Section 20120e of the NREPA.
- (FF) The chloride GSI criterion shall be 125 mg/L when the discharge is to surface waters of the state designated as public water supply sources or 50 mg/L when the discharge is to the Great Lakes or connecting waters. Chloride GSI criteria shall not apply for surface waters of the state that are not designated as a public water supply source, however, the total dissolved solids criterion is applicable.
- (GG) Risk-based criteria are not available for methane due to insufficient toxicity data. An acceptable soil gas concentration (presented for both residential and nonresidential land uses) was derived utilizing 25 percent of the lower explosive level for methane. This equates to 1.25 percent or $8.4E+6$ ug/m^3 .
- (HH) The residential criterion for sodium is 230,000 ug/L in accordance with the Sodium Advisory Council recommendation and revised Groundwater Discharge Standards.
- ID Insufficient data to develop criterion.
- NA A criterion or value is not available or, in the case of background and CAS numbers, not applicable.
- NLL Hazardous substance is not likely to leach under most soil conditions.
- NLV Hazardous substance is not likely to volatilize under most conditions.
- ug/kg Micrograms per kilogram
- ug/L Micrograms per liter
- NS Not sampled
- BDL Below Laboratory Method Detection Limits
- BOLD** Exceeds highlighted criteria.

Appendix A

Soil Boring Logs



BORING LOG

220 N. Park Street
Ypsilanti, Michigan

AKT Peerless Project No: 10627F2-2-20

PS-SB-1

(1 of 2)

Drawn By: P. McAdams

Date: 6/29/2021

DRILLING COMPANY:	AKT Peerless	WEATHER:	Sunny, 70°
TECHNICIAN:	Bill Fox	BORING DEPTH:	32 feet bgs
DATE DRILLED:	06/17/21	DEPTH TO GW:	Not encountered
DRILLING METHOD:	Geoprobe	SCREEN INTERVAL:	Not applicable
FIELD GEOLOGIST:	P. McAdams	SCREEN MATERIAL:	Not applicable

DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	PID VALUE	USCS SOIL CLASS.	COLOR	GEOLOGIC DESCRIPTION	MOISTURE	TEMPORARY WELL DIAGRAM
2			<0.1	SM	Brown/black	FILL: sand with silt matrix containing concrete, rocks, gravel	M	TEMPORARY WELL DIAGRAM
2			<0.1	SW	Lt. Brown	SAND: fine-grained sand	M	
4				SC	Brown	SAND: fine-grained sand with clay	M	
4				SW	Lt. Brown	SAND: fine-grained sand	M	
6			<0.1	CL	Brown/grey	CLAY: clay with sand, mottled	M	
8				SC	Brown	SAND: fine-grained sand with clay	M	
8				CL	Brown/grey	CLAY: stiff clay, mottled	M	
10			<0.1	CL	Black	CLAY: soft clay with silt and sand	M	
12				SM	Brown	SAND: fine-grained sand with silt	M	
14			<0.1	SC	Brown	SAND: fine-grained sand with clay and silt	M	
16				SP	Brown	SAND: medium-grained sand	M	
18			<0.1					
20						See PS-SB-1 (2/2)		



BORING LOG

220 N. Park Street
Ypsilanti, Michigan

AKT Peerless Project No: 10627F2-2-20

PS-SB-2

Drawn By: P. McAdams

Date: 6/29/2021

DRILLING COMPANY:	AKT Peerless	WEATHER:	Sunny, 70°
TECHNICIAN:	Bill Fox	BORING DEPTH:	20 feet bgs
DATE DRILLED:	06/17/21	DEPTH TO GW:	Not encountered
DRILLING METHOD:	Geoprobe	SCREEN INTERVAL:	Not applicable
FIELD GEOLOGIST:	P. McAdams	SCREEN MATERIAL:	Not applicable

DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	PID VALUE	USCS SOIL CLASS.	COLOR	GEOLOGIC DESCRIPTION	MOISTURE	TEMPORARY WELL DIAGRAM
				SW	Black	SAND: sand with trace silt	M	
2		70	<0.1	SW SW	Grey Brown	SAND: sand with clay SAND: fine-grained sand	M M	
4				SW	Brown/ red	SAND: fine-grained sand with gravel	M	
6		80	<0.1				M	
				CL	Brown	CLAY: medium-stiff clay	M	
8				CL	Brown	CLAY: soft clay	M	
10		100	<0.1	ML	Grey	CLAY: medium-stiff clay with silt	M	
12				CL	Red	CLAY: medium-stiff clay with sand	M	
14		100	<0.1					
16				SM	Brown	SAND: fine-grained	M	
18		90	<0.1					
20						End of Boring	M	



BORING LOG

220 N. Park Street
Ypsilanti, Michigan

AKT Peerless Project No: 10627F2-2-20

PS-SB-3

Drawn By: P. McAdams

Date: 6/29/2021

DRILLING COMPANY:	AKT Peerless	WEATHER:	Sunny, 75°
TECHNICIAN:	Bill Fox	BORING DEPTH:	20 feet bgs
DATE DRILLED:	06/17/21	DEPTH TO GW:	Not encountered
DRILLING METHOD:	Geoprobe	SCREEN INTERVAL:	Not applicable
FIELD GEOLOGIST:	P. McAdams	SCREEN MATERIAL:	Not applicable

DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	PID VALUE	USCS SOIL CLASS.	COLOR	GEOLOGIC DESCRIPTION	MOISTURE	TEMPORARY WELL DIAGRAM
2		70	<0.1	SM	Black	SAND: fine-grained with organics	M	
				SM	Brown	SAND: fine-grained with silt	M	
4				SC	Brown	SAND: fine-grained with clay	M	
				ML	Brown/ grey	CLAY: medium-stiff clay with sand	M	
6		100	<0.1	CL		CLAY: stiff clay with gravel	M	
8				SC	Brown/ grey/red	SAND: fine grained sand with clay and silt	M	
10		90	<0.1	ML	Brown/ grey	CLAY: medium-stiff clay with sand, mottled	M	
12								
14		100	<0.1	SW SC	Brown Brown/ red	SAND: medium-grained sand with gravel SAND: medium-grained sand with clay and silt	M M	
16								
18		100	<0.1					
20						End of Boring	M	



BORING LOG

220 N. Park Street
Ypsilanti, Michigan

AKT Peerless Project No: 10627F2-2-20

PS-SB-4

Drawn By: P. McAdams

Date: 6/29/2021

DRILLING COMPANY:	AKT Peerless	WEATHER:	Sunny, 80°
TECHNICIAN:	Bill Fox	BORING DEPTH:	20 feet bgs
DATE DRILLED:	06/17/21	DEPTH TO GW:	Not encountered
DRILLING METHOD:	Geoprobe	SCREEN INTERVAL:	Not applicable
FIELD GEOLOGIST:	P. McAdams	SCREEN MATERIAL:	Not applicable

DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	PID VALUE	USCS SOIL CLASS.	COLOR	GEOLOGIC DESCRIPTION	MOISTURE	TEMPORARY WELL DIAGRAM
2		80	<0.1			FILL: sand, gravel, organics	M	
				CL	Brown	CLAY: medium-stiff clay	M	
4				SW	Brown	SAND: fine-grained sand with gravel	M	
				SC	Brown	SAND: fine-grained sand with clay	M	
6		80	<0.1	SM	Brown	SAND: fine-grained with silt	M	
8				CL	Brown/grey	CLAY: stiff clay with sand, mottled	M	
10		100	<0.1	ML	Grey	CLAY: medium-soft clay with silt	M	
12				CL	Grey	CLAY: medium-stiff clay	M	
14		100	<0.1					
16				ML	Grey	CLAY: medium stiff clay with silt	M	
18		100	<0.1					
20						End of Boring	M	

Appendix B

**Analytical Laboratory Report and Chain of Custody
Documentation**



13-Jul-2021

Scott Wasielewski
AKT Peerless
22725 Orchard Lake Road
Farmington, MI 48336

Re: **10627F2-2-20**

Work Order: **21061951**

Dear Scott,

Revision: **1**

ALS Environmental received 10 samples on 19-Jun-2021 08:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 89.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

A handwritten signature in black ink, appearing to read "Bill Carey".

Electronically approved by: Bill Carey

Bill Carey
Project Manager

Report of Laboratory Analysis

Certificate No: MI: 0022

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: AKT Peerless
Project: 10627F2-2-20
Work Order: 21061951

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21061951-01	Trip Blank	Water		6/17/2021 08:00	6/19/2021 08:00	<input type="checkbox"/>
21061951-02	Methanol Blank	Soil		6/17/2021 08:00	6/19/2021 08:00	<input type="checkbox"/>
21061951-03	Soil Equipment Blank	Water		6/17/2021 09:20	6/19/2021 08:00	<input type="checkbox"/>
21061951-04	Soil Field Blank	Soil		6/17/2021 08:00	6/19/2021 08:00	<input type="checkbox"/>
21061951-05	PS-SB-1 (1-3)	Soil		6/17/2021 09:30	6/19/2021 08:00	<input type="checkbox"/>
21061951-06	PS-SB-2 (17-19)	Soil		6/17/2021 10:47	6/19/2021 08:00	<input type="checkbox"/>
21061951-07	PS-SB-3 (16-18)	Soil		6/17/2021 11:30	6/19/2021 08:00	<input type="checkbox"/>
21061951-08	PS-SB-4 (6-8)	Soil		6/17/2021 12:05	6/19/2021 08:00	<input type="checkbox"/>
21061951-09	PS-SB-1 (10-12)	Soil		6/17/2021 10:06	6/19/2021 08:00	<input type="checkbox"/>
21061951-10	Soil Duplicate	Soil		6/17/2021 09:30	6/19/2021 08:00	<input type="checkbox"/>

Client: AKT Peerless
Project: 10627F2-2-20
WorkOrder: 21061951

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
µg/L	Micrograms per Liter

Client: AKT Peerless
Project: 10627F2-2-20
Work Order: 21061951

Case Narrative

Samples for the above noted Work Order were received on 6/19/2021. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Volatile Organics:

Batch 178908, Method SW8260C, Sample LCS-178908: The LCS recovery was above the upper control limit. All the sample results in the batch were non-detect. No qualification is necessary for this analyte: tert-butyl alcohol

Batch R321040A, Method SW8260C, Sample 10V-LCSW1-210630: The LCS recovery was above the upper control limit. All the sample results in the batch were non-detect. No qualification is necessary for this analyte: bromomethane, methyl iodide

Batch 178908, Method SW8260C, Sample 21061951-05A MS: The MS recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: 1,1,2,2-tetrachloroethane

Batch 178908, Method SW8260C, Sample 21061951-05A MS: The MS recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: 2-butanone

Batch 178908, Method SW8260C, Sample 21061951-05A MS: The MS recovery was above the upper control limit. The corresponding result in the parent sample was non-detect, therefore no qualification is necessary: methyl iodide, acetone, tetrachloroethene, trichloroethene

Batch 178908, Method SW8260C, Sample 21061951-05A MSD: The MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased

Client: AKT Peerless
Project: 10627F2-2-20
Work Order: 21061951

Case Narrative

low for this analyte: 1,1,2,2-tetrachloroethane

Batch 178908, Method SW8260C, Sample 21061951-05A MSD: The MSD recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: 2-butanone

Batch 178908, Method SW8260C, Sample 21061951-05A MSD: The MSD recovery was above the upper control limit. The corresponding result in the parent sample was non-detect, therefore no qualification is necessary. methyl iodide, acetone, tetrachloroethene, trichloroethene

Batch 178908, Method SW8260C, Sample 21061951-05A MSD: The MSD recovery was outside of the control limit. However, the MS recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: chloroethane

Extractable Organics:

Batch 179138, Method SW846 8270D, Sample 21061951-05B MS: The MS recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: 3,3'-Dichlorobenzidine, Fluoranthene

Batch 179138, Method SW846 8270D, Sample 21061951-05B MSD: The MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: 3,3'-Dichlorobenzidine, 2,4-Dimethylphenol

Metals:

Batch 179217, Method SW6020B, Sample 21061951-05BMS: The MS recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Ba, Mn, Zn

Batch 179217, Method SW6020B, Sample 21061951-05BMS: The MS recovery was outside of the control limit. However, the MSD recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: Cu, Pb

Batch 179217, Method SW6020B, Sample 21061951-05BMSD: The MSD recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Ba, Mn

Batch 179217, Method SW6020B, Sample 21061951-05BMSD: The MSD recovery was outside of the control limit. However, the MS recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: Ag

Wet Chemistry:

Client: AKT Peerless
Project: 10627F2-2-20
Work Order: 21061951

Case Narrative

No other deviations or anomalies were noted.

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20
Lab ID: 21061951-01

Client Sample ID: Trip Blank
Collection Date: 6/17/2021 8:00:00 AM
Matrix: WATER

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C				Analyst: SJB
1,1,1,2-Tetrachloroethane	ND	1.0	1.0		µg/L	1	6/30/2021
1,1,1-Trichloroethane	ND	1.0	1.0		µg/L	1	6/30/2021
1,1,2,2-Tetrachloroethane	ND	1.0	1.0		µg/L	1	6/30/2021
1,1,2-Trichloroethane	ND	1.0	1.0		µg/L	1	6/30/2021
1,1,2-Trichlorotrifluoroethane	ND	1.0	1.0		µg/L	1	6/30/2021
1,1-Dichloroethane	ND	1.0	1.0		µg/L	1	6/30/2021
1,1-Dichloroethene	ND	1.0	1.0		µg/L	1	6/30/2021
1,2,3-Trichloropropane	ND	1.0	1.0		µg/L	1	6/30/2021
1,2,4-Trichlorobenzene	ND	5.0	5.0		µg/L	1	6/30/2021
1,2,4-Trimethylbenzene	ND	1.0	1.0		µg/L	1	6/30/2021
1,2-Dibromo-3-chloropropane	ND	1.0	0.20		µg/L	1	6/30/2021
1,2-Dibromoethane	ND	1.0	0.050		µg/L	1	6/30/2021
1,2-Dichlorobenzene	ND	1.0	1.0		µg/L	1	6/30/2021
1,2-Dichloroethane	ND	1.0	1.0		µg/L	1	6/30/2021
1,2-Dichloropropane	ND	1.0	1.0		µg/L	1	6/30/2021
1,3,5-Trimethylbenzene	ND	1.0	1.0		µg/L	1	6/30/2021
1,3-Dichlorobenzene	ND	1.0	1.0		µg/L	1	6/30/2021
1,4-Dichlorobenzene	ND	1.0	1.0		µg/L	1	6/30/2021
2-Butanone	ND	25	25		µg/L	1	6/30/2021
2-Hexanone	ND	50	50		µg/L	1	6/30/2021
2-Methylnaphthalene	ND	5.0	5.0		µg/L	1	6/30/2021
4-Methyl-2-pentanone	ND	50	50		µg/L	1	6/30/2021
Acetone	ND	50	50		µg/L	1	6/30/2021
Acrylonitrile	ND	2.0	2.0		µg/L	1	6/30/2021
Benzene	ND	1.0	1.0		µg/L	1	6/30/2021
Bromodichloromethane	ND	1.0	1.0		µg/L	1	6/30/2021
Bromoform	ND	1.0	1.0		µg/L	1	6/30/2021
Bromomethane	ND	5.0	5.0		µg/L	1	6/30/2021
Carbon disulfide	ND	5.0	5.0		µg/L	1	6/30/2021
Carbon tetrachloride	ND	1.0	1.0		µg/L	1	6/30/2021
Chlorobenzene	ND	1.0	1.0		µg/L	1	6/30/2021
Chloroethane	ND	5.0	5.0		µg/L	1	6/30/2021
Chloroform	ND	1.0	1.0		µg/L	1	6/30/2021
Chloromethane	ND	5.0	5.0		µg/L	1	6/30/2021
cis-1,2-Dichloroethene	ND	1.0	1.0		µg/L	1	6/30/2021
cis-1,3-Dichloropropene	ND	1.0	1.0		µg/L	1	6/30/2021
Dibromochloromethane	ND	5.0	5.0		µg/L	1	6/30/2021
Dibromomethane	ND	5.0	5.0		µg/L	1	6/30/2021
Dichlorodifluoromethane	ND	5.0	5.0		µg/L	1	6/30/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20
Lab ID: 21061951-01

Client Sample ID: Trip Blank
Collection Date: 6/17/2021 8:00:00 AM
Matrix: WATER

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Diethyl ether	ND	10	10		µg/L	1	6/30/2021
Ethylbenzene	ND	1.0	1.0		µg/L	1	6/30/2021
Hexachloroethane	ND	5.0	5.0		µg/L	1	6/30/2021
Isopropylbenzene	ND	5.0	5.0		µg/L	1	6/30/2021
m,p-Xylene	ND	2.0	2.0		µg/L	1	6/30/2021
Methyl tert-butyl ether	ND	5.0	5.0		µg/L	1	6/30/2021
Methylene chloride	ND	5.0	5.0		µg/L	1	6/30/2021
Naphthalene	ND	5.0	5.0		µg/L	1	6/30/2021
n-Propylbenzene	ND	1.0	1.0		µg/L	1	6/30/2021
o-Xylene	ND	1.0	1.0		µg/L	1	6/30/2021
Styrene	ND	1.0	1.0		µg/L	1	6/30/2021
Tetrachloroethene	ND	1.0	1.0		µg/L	1	6/30/2021
Toluene	ND	1.0	1.0		µg/L	1	6/30/2021
trans-1,2-Dichloroethene	ND	1.0	1.0		µg/L	1	6/30/2021
trans-1,3-Dichloropropene	ND	1.0	1.0		µg/L	1	6/30/2021
Trichloroethene	ND	1.0	1.0		µg/L	1	6/30/2021
Trichlorofluoromethane	ND	1.0	1.0		µg/L	1	6/30/2021
Vinyl acetate	ND	100	100		µg/L	1	6/30/2021
Vinyl chloride	ND	1.0	1.0		µg/L	1	6/30/2021
Xylenes, Total	ND	3.0	3.0		µg/L	1	6/30/2021
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>102</i>	<i>75-120</i>			<i>%REC</i>	<i>1</i>	<i>6/30/2021</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>93.6</i>	<i>80-110</i>			<i>%REC</i>	<i>1</i>	<i>6/30/2021</i>
<i>Surr: Dibromofluoromethane</i>	<i>102</i>	<i>85-115</i>			<i>%REC</i>	<i>1</i>	<i>6/30/2021</i>
<i>Surr: Toluene-d8</i>	<i>98.4</i>	<i>85-110</i>			<i>%REC</i>	<i>1</i>	<i>6/30/2021</i>

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20
Lab ID: 21061951-02

Client Sample ID: Methanol Blank
Collection Date: 6/17/2021 8:00:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Prep Date: 6/21/2021		Analyst: SJB
1,1,1,2-Tetrachloroethane	ND	100	100		µg/Kg-dry	1	6/30/2021
1,1,1-Trichloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1,2,2-Tetrachloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1,2-Trichloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1,2-Trichlorotrifluoroethane	ND	100	100		µg/Kg-dry	1	6/30/2021
1,1-Dichloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1-Dichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
1,2,3-Trichloropropane	ND	100	100		µg/Kg-dry	1	6/30/2021
1,2,4-Trichlorobenzene	ND	250	250		µg/Kg-dry	1	6/30/2021
1,2,4-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
1,2-Dibromo-3-chloropropane	ND	100	10		µg/Kg-dry	1	6/30/2021
1,2-Dibromoethane	ND	30	20		µg/Kg-dry	1	6/30/2021
1,2-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
1,2-Dichloroethane	ND	100	50		µg/Kg-dry	1	6/30/2021
1,2-Dichloropropane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,3,5-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
1,3-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
1,4-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
2-Butanone	ND	750	750		µg/Kg-dry	1	6/30/2021
2-Hexanone	ND	2,500	2,500		µg/Kg-dry	1	6/30/2021
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	6/30/2021
4-Methyl-2-pentanone	ND	2,500	2,500		µg/Kg-dry	1	6/30/2021
Acetone	ND	1,000	1,000		µg/Kg-dry	1	6/30/2021
Acrylonitrile	ND	100	100		µg/Kg-dry	1	6/30/2021
Benzene	ND	50	50		µg/Kg-dry	1	6/30/2021
Bromodichloromethane	ND	100	100		µg/Kg-dry	1	6/30/2021
Bromoform	ND	100	100		µg/Kg-dry	1	6/30/2021
Bromomethane	ND	200	200		µg/Kg-dry	1	6/30/2021
Carbon disulfide	ND	250	250		µg/Kg-dry	1	6/30/2021
Carbon tetrachloride	ND	50	50		µg/Kg-dry	1	6/30/2021
Chlorobenzene	ND	50	50		µg/Kg-dry	1	6/30/2021
Chloroethane	ND	250	250		µg/Kg-dry	1	6/30/2021
Chloroform	ND	50	50		µg/Kg-dry	1	6/30/2021
Chloromethane	ND	250	250		µg/Kg-dry	1	6/30/2021
cis-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
cis-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	6/30/2021
Dibromochloromethane	ND	100	100		µg/Kg-dry	1	6/30/2021
Dibromomethane	ND	250	250		µg/Kg-dry	1	6/30/2021
Dichlorodifluoromethane	ND	250	250		µg/Kg-dry	1	6/30/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20
Lab ID: 21061951-02

Client Sample ID: Methanol Blank
Collection Date: 6/17/2021 8:00:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Diethyl ether	ND	200	200		µg/Kg-dry	1	6/30/2021
Ethylbenzene	ND	50	50		µg/Kg-dry	1	6/30/2021
Hexachloroethane	ND	300	300		µg/Kg-dry	1	6/30/2021
Isopropylbenzene	ND	250	250		µg/Kg-dry	1	6/30/2021
m,p-Xylene	ND	100	100		µg/Kg-dry	1	6/30/2021
Methyl tert-butyl ether	ND	250	250		µg/Kg-dry	1	6/30/2021
Methylene chloride	ND	250	100		µg/Kg-dry	1	6/30/2021
Naphthalene	ND	330	330		µg/Kg-dry	1	6/30/2021
n-Propylbenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
o-Xylene	ND	50	50		µg/Kg-dry	1	6/30/2021
Styrene	ND	50	50		µg/Kg-dry	1	6/30/2021
Tetrachloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
Toluene	ND	100	100		µg/Kg-dry	1	6/30/2021
trans-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
trans-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	6/30/2021
Trichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
Trichlorofluoromethane	ND	100	100		µg/Kg-dry	1	6/30/2021
Vinyl acetate	ND	5,000	5,000		µg/Kg-dry	1	6/30/2021
Vinyl chloride	ND	40	40		µg/Kg-dry	1	6/30/2021
Xylenes, Total	ND	150	150		µg/Kg-dry	1	6/30/2021
Surr: 1,2-Dichloroethane-d4	105	70-130			%REC	1	6/30/2021
Surr: 4-Bromofluorobenzene	106	70-130			%REC	1	6/30/2021
Surr: Dibromofluoromethane	107	70-130			%REC	1	6/30/2021
Surr: Toluene-d8	103	70-130			%REC	1	6/30/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20
Lab ID: 21061951-03

Client Sample ID: Soil Equipment Blank
Collection Date: 6/17/2021 9:20:00 AM
Matrix: WATER

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7470A		Prep Date: 6/24/2021	Analyst: MTW	
Mercury	ND	0.20	0.20		µg/L	1	6/24/2021
METALS BY ICP-MS			SW6020B		Prep Date: 6/26/2021	Analyst: STP	
Arsenic	ND	5.0	5.0		µg/L	1	6/29/2021
Barium	ND	100	100		µg/L	1	6/29/2021
Cadmium	ND	2.0	1.0		µg/L	1	6/29/2021
Chromium	ND	10	10		µg/L	1	6/29/2021
Copper	ND	5.0	4.0		µg/L	1	6/29/2021
Lead	ND	5.0	3.0		µg/L	1	6/29/2021
Selenium	ND	5.0	5.0		µg/L	1	6/29/2021
Silver	ND	5.0	0.20		µg/L	1	6/29/2021
Zinc	ND	50	50		µg/L	1	6/29/2021
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep Date: 6/24/2021	Analyst: EE	
1,1'-Biphenyl	ND	40	0		µg/L	1	6/25/2021
2,4,5-Trichlorophenol	ND	40	5.0		µg/L	1	6/25/2021
2,4,6-Trichlorophenol	ND	40	4.0		µg/L	1	6/25/2021
2,4-Dichlorophenol	ND	40	10		µg/L	1	6/25/2021
2,4-Dimethylphenol	ND	40	5.0		µg/L	1	6/25/2021
2,4-Dinitrophenol	ND	40	25		µg/L	1	6/25/2021
2,4-Dinitrotoluene	ND	40	5.0		µg/L	1	6/25/2021
2,6-Dinitrotoluene	ND	40	5.0		µg/L	1	6/25/2021
2-Chloronaphthalene	ND	40	5.0		µg/L	1	6/25/2021
2-Chlorophenol	ND	40	10		µg/L	1	6/25/2021
2-Methylnaphthalene	ND	40	5.0		µg/L	1	6/25/2021
2-Methylphenol	ND	40	10		µg/L	1	6/25/2021
2-Nitroaniline	ND	40	25		µg/L	1	6/25/2021
2-Nitrophenol	ND	40	5.0		µg/L	1	6/25/2021
3&4-Methylphenol	ND	40	10		µg/L	1	6/25/2021
3,3'-Dichlorobenzidine	ND	40	0.39		µg/L	1	6/25/2021
3-Nitroaniline	ND	40	25		µg/L	1	6/25/2021
4,6-Dinitro-2-methylphenol	ND	40	20		µg/L	1	6/25/2021
4-Bromophenyl phenyl ether	ND	40	5.0		µg/L	1	6/25/2021
4-Chloro-3-methylphenol	ND	40	5.0		µg/L	1	6/25/2021
4-Chloroaniline	ND	40	10		µg/L	1	6/25/2021
4-Chlorophenyl phenyl ether	ND	40	5.0		µg/L	1	6/25/2021
4-Nitroaniline	ND	40	25		µg/L	1	6/25/2021
4-Nitrophenol	ND	40	25		µg/L	1	6/25/2021
Acenaphthene	ND	40	5.0		µg/L	1	6/25/2021
Acenaphthylene	ND	40	5.0		µg/L	1	6/25/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20
Lab ID: 21061951-03

Client Sample ID: Soil Equipment Blank
Collection Date: 6/17/2021 9:20:00 AM
Matrix: WATER

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Acetophenone	ND	10	10		µg/L	1	6/25/2021
Anthracene	ND	40	5.0		µg/L	1	6/25/2021
Atrazine	ND	8.0	3.0		µg/L	1	6/25/2021
Benzaldehyde	ND	8.0	0		µg/L	1	6/25/2021
Benzo(a)anthracene	ND	40	1.0		µg/L	1	6/25/2021
Benzo(a)pyrene	ND	40	1.0		µg/L	1	6/25/2021
Benzo(b)fluoranthene	ND	40	1.0		µg/L	1	6/25/2021
Benzo(g,h,i)perylene	ND	40	1.0		µg/L	1	6/25/2021
Benzo(k)fluoranthene	ND	40	1.0		µg/L	1	6/25/2021
Bis(2-chloroethoxy)methane	ND	40	5.0		µg/L	1	6/25/2021
Bis(2-chloroethyl)ether	ND	40	1.0		µg/L	1	6/25/2021
Bis(2-chloroisopropyl)ether	ND	40	5.0		µg/L	1	6/25/2021
Bis(2-ethylhexyl)phthalate	ND	40	5.0		µg/L	1	6/25/2021
Butyl benzyl phthalate	ND	40	5.0		µg/L	1	6/25/2021
Caprolactam	ND	80	10		µg/L	1	6/25/2021
Carbazole	ND	40	10		µg/L	1	6/25/2021
Chrysene	ND	40	1.0		µg/L	1	6/25/2021
Dibenzo(a,h)anthracene	ND	40	2.0		µg/L	1	6/25/2021
Dibenzofuran	ND	40	4.0		µg/L	1	6/25/2021
Diethyl phthalate	ND	40	5.0		µg/L	1	6/25/2021
Dimethyl phthalate	ND	40	5.0		µg/L	1	6/25/2021
Di-n-butyl phthalate	ND	40	5.0		µg/L	1	6/25/2021
Di-n-octyl phthalate	ND	40	5.0		µg/L	1	6/25/2021
Fluoranthene	ND	40	1.0		µg/L	1	6/25/2021
Fluorene	ND	40	5.0		µg/L	1	6/25/2021
Hexachlorobenzene	ND	40	0.20		µg/L	1	6/25/2021
Hexachlorobutadiene	ND	40	0.30		µg/L	1	6/25/2021
Hexachlorocyclopentadiene	ND	40	5.0		µg/L	1	6/25/2021
Hexachloroethane	ND	40	5.0		µg/L	1	6/25/2021
Indeno(1,2,3-cd)pyrene	ND	40	2.0		µg/L	1	6/25/2021
Isophorone	ND	40	5.0		µg/L	1	6/25/2021
Naphthalene	ND	40	5.0		µg/L	1	6/25/2021
Nitrobenzene	ND	40	3.0		µg/L	1	6/25/2021
N-Nitrosodi-n-propylamine	ND	40	5.0		µg/L	1	6/25/2021
N-Nitrosodiphenylamine	ND	40	5.0		µg/L	1	6/25/2021
Pentachlorophenol	ND	40	2.0		µg/L	1	6/25/2021
Phenanthrene	ND	40	2.0		µg/L	1	6/25/2021
Phenol	ND	40	5.0		µg/L	1	6/25/2021
Pyrene	ND	40	5.0		µg/L	1	6/25/2021
Surr: 2,4,6-Tribromophenol	75.5	27-83			%REC	1	6/25/2021
Surr: 2-Fluorobiphenyl	70.3	26-79			%REC	1	6/25/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20
Lab ID: 21061951-03

Client Sample ID: Soil Equipment Blank
Collection Date: 6/17/2021 9:20:00 AM
Matrix: WATER

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Surr: 2-Fluorophenol	43.6	13-56			%REC	1	6/25/2021
Surr: 4-Terphenyl-d14	76.0	43-106			%REC	1	6/25/2021
Surr: Nitrobenzene-d5	66.0	29-80			%REC	1	6/25/2021
Surr: Phenol-d6	27.7	10-35			%REC	1	6/25/2021

VOLATILE ORGANIC COMPOUNDS

SW8260C

Analyst: **SJB**

1,1,1,2-Tetrachloroethane	ND	1.0	1.0		µg/L	1	6/30/2021
1,1,1-Trichloroethane	ND	1.0	1.0		µg/L	1	6/30/2021
1,1,2,2-Tetrachloroethane	ND	1.0	1.0		µg/L	1	6/30/2021
1,1,2-Trichloroethane	ND	1.0	1.0		µg/L	1	6/30/2021
1,1,2-Trichlorotrifluoroethane	ND	1.0	1.0		µg/L	1	6/30/2021
1,1-Dichloroethane	ND	1.0	1.0		µg/L	1	6/30/2021
1,1-Dichloroethene	ND	1.0	1.0		µg/L	1	6/30/2021
1,2,3-Trichloropropane	ND	1.0	1.0		µg/L	1	6/30/2021
1,2,4-Trichlorobenzene	ND	5.0	5.0		µg/L	1	6/30/2021
1,2,4-Trimethylbenzene	ND	1.0	1.0		µg/L	1	6/30/2021
1,2-Dibromo-3-chloropropane	ND	1.0	0.20		µg/L	1	6/30/2021
1,2-Dibromoethane	ND	1.0	0.050		µg/L	1	6/30/2021
1,2-Dichlorobenzene	ND	1.0	1.0		µg/L	1	6/30/2021
1,2-Dichloroethane	ND	1.0	1.0		µg/L	1	6/30/2021
1,2-Dichloropropane	ND	1.0	1.0		µg/L	1	6/30/2021
1,3,5-Trimethylbenzene	ND	1.0	1.0		µg/L	1	6/30/2021
1,3-Dichlorobenzene	ND	1.0	1.0		µg/L	1	6/30/2021
1,4-Dichlorobenzene	ND	1.0	1.0		µg/L	1	6/30/2021
2-Butanone	ND	25	25		µg/L	1	6/30/2021
2-Hexanone	ND	50	50		µg/L	1	6/30/2021
2-Methylnaphthalene	ND	5.0	5.0		µg/L	1	6/30/2021
4-Methyl-2-pentanone	ND	50	50		µg/L	1	6/30/2021
Acetone	ND	50	50		µg/L	1	6/30/2021
Acrylonitrile	ND	2.0	2.0		µg/L	1	6/30/2021
Benzene	ND	1.0	1.0		µg/L	1	6/30/2021
Bromodichloromethane	ND	1.0	1.0		µg/L	1	6/30/2021
Bromoform	ND	1.0	1.0		µg/L	1	6/30/2021
Bromomethane	ND	5.0	5.0		µg/L	1	6/30/2021
Carbon disulfide	ND	5.0	5.0		µg/L	1	6/30/2021
Carbon tetrachloride	ND	1.0	1.0		µg/L	1	6/30/2021
Chlorobenzene	ND	1.0	1.0		µg/L	1	6/30/2021
Chloroethane	ND	5.0	5.0		µg/L	1	6/30/2021
Chloroform	ND	1.0	1.0		µg/L	1	6/30/2021
Chloromethane	ND	5.0	5.0		µg/L	1	6/30/2021
cis-1,2-Dichloroethene	ND	1.0	1.0		µg/L	1	6/30/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20
Lab ID: 21061951-03

Client Sample ID: Soil Equipment Blank
Collection Date: 6/17/2021 9:20:00 AM
Matrix: WATER

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	ND	1.0	1.0		µg/L	1	6/30/2021
Dibromochloromethane	ND	5.0	5.0		µg/L	1	6/30/2021
Dibromomethane	ND	5.0	5.0		µg/L	1	6/30/2021
Dichlorodifluoromethane	ND	5.0	5.0		µg/L	1	6/30/2021
Diethyl ether	ND	10	10		µg/L	1	6/30/2021
Ethylbenzene	ND	1.0	1.0		µg/L	1	6/30/2021
Hexachloroethane	ND	5.0	5.0		µg/L	1	6/30/2021
Isopropylbenzene	ND	5.0	5.0		µg/L	1	6/30/2021
m,p-Xylene	ND	2.0	2.0		µg/L	1	6/30/2021
Methyl tert-butyl ether	ND	5.0	5.0		µg/L	1	6/30/2021
Methylene chloride	ND	5.0	5.0		µg/L	1	6/30/2021
Naphthalene	ND	5.0	5.0		µg/L	1	6/30/2021
n-Propylbenzene	ND	1.0	1.0		µg/L	1	6/30/2021
o-Xylene	ND	1.0	1.0		µg/L	1	6/30/2021
Styrene	ND	1.0	1.0		µg/L	1	6/30/2021
Tetrachloroethene	ND	1.0	1.0		µg/L	1	6/30/2021
Toluene	ND	1.0	1.0		µg/L	1	6/30/2021
trans-1,2-Dichloroethene	ND	1.0	1.0		µg/L	1	6/30/2021
trans-1,3-Dichloropropene	ND	1.0	1.0		µg/L	1	6/30/2021
Trichloroethene	ND	1.0	1.0		µg/L	1	6/30/2021
Trichlorofluoromethane	ND	1.0	1.0		µg/L	1	6/30/2021
Vinyl acetate	ND	100	100		µg/L	1	6/30/2021
Vinyl chloride	ND	1.0	1.0		µg/L	1	6/30/2021
Xylenes, Total	ND	3.0	3.0		µg/L	1	6/30/2021
Surr: 1,2-Dichloroethane-d4	102	75-120			%REC	1	6/30/2021
Surr: 4-Bromofluorobenzene	93.2	80-110			%REC	1	6/30/2021
Surr: Dibromofluoromethane	103	85-115			%REC	1	6/30/2021
Surr: Toluene-d8	100	85-110			%REC	1	6/30/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20
Lab ID: 21061951-04

Client Sample ID: Soil Field Blank
Collection Date: 6/17/2021 8:00:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Prep Date: 6/21/2021		Analyst: SJB
1,1,1,2-Tetrachloroethane	ND	100	100		µg/Kg-dry	1	6/30/2021
1,1,1-Trichloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1,2,2-Tetrachloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1,2-Trichloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1,2-Trichlorotrifluoroethane	ND	100	100		µg/Kg-dry	1	6/30/2021
1,1-Dichloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1-Dichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
1,2,3-Trichloropropane	ND	100	100		µg/Kg-dry	1	6/30/2021
1,2,4-Trichlorobenzene	ND	250	250		µg/Kg-dry	1	6/30/2021
1,2,4-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
1,2-Dibromo-3-chloropropane	ND	100	10		µg/Kg-dry	1	6/30/2021
1,2-Dibromoethane	ND	30	20		µg/Kg-dry	1	6/30/2021
1,2-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
1,2-Dichloroethane	ND	100	50		µg/Kg-dry	1	6/30/2021
1,2-Dichloropropane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,3,5-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
1,3-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
1,4-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
2-Butanone	ND	750	750		µg/Kg-dry	1	6/30/2021
2-Hexanone	ND	2,500	2,500		µg/Kg-dry	1	6/30/2021
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	6/30/2021
4-Methyl-2-pentanone	ND	2,500	2,500		µg/Kg-dry	1	6/30/2021
Acetone	ND	1,000	1,000		µg/Kg-dry	1	6/30/2021
Acrylonitrile	ND	100	100		µg/Kg-dry	1	6/30/2021
Benzene	ND	50	50		µg/Kg-dry	1	6/30/2021
Bromodichloromethane	ND	100	100		µg/Kg-dry	1	6/30/2021
Bromoform	ND	100	100		µg/Kg-dry	1	6/30/2021
Bromomethane	ND	200	200		µg/Kg-dry	1	6/30/2021
Carbon disulfide	ND	250	250		µg/Kg-dry	1	6/30/2021
Carbon tetrachloride	ND	50	50		µg/Kg-dry	1	6/30/2021
Chlorobenzene	ND	50	50		µg/Kg-dry	1	6/30/2021
Chloroethane	ND	250	250		µg/Kg-dry	1	6/30/2021
Chloroform	ND	50	50		µg/Kg-dry	1	6/30/2021
Chloromethane	ND	250	250		µg/Kg-dry	1	6/30/2021
cis-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
cis-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	6/30/2021
Dibromochloromethane	ND	100	100		µg/Kg-dry	1	6/30/2021
Dibromomethane	ND	250	250		µg/Kg-dry	1	6/30/2021
Dichlorodifluoromethane	ND	250	250		µg/Kg-dry	1	6/30/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20
Lab ID: 21061951-04

Client Sample ID: Soil Field Blank
Collection Date: 6/17/2021 8:00:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Diethyl ether	ND	200	200		µg/Kg-dry	1	6/30/2021
Ethylbenzene	ND	50	50		µg/Kg-dry	1	6/30/2021
Hexachloroethane	ND	300	300		µg/Kg-dry	1	6/30/2021
Isopropylbenzene	ND	250	250		µg/Kg-dry	1	6/30/2021
m,p-Xylene	ND	100	100		µg/Kg-dry	1	6/30/2021
Methyl tert-butyl ether	ND	250	250		µg/Kg-dry	1	6/30/2021
Methylene chloride	ND	250	100		µg/Kg-dry	1	6/30/2021
Naphthalene	ND	330	330		µg/Kg-dry	1	6/30/2021
n-Propylbenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
o-Xylene	ND	50	50		µg/Kg-dry	1	6/30/2021
Styrene	ND	50	50		µg/Kg-dry	1	6/30/2021
Tetrachloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
Toluene	ND	100	100		µg/Kg-dry	1	6/30/2021
trans-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
trans-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	6/30/2021
Trichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
Trichlorofluoromethane	ND	100	100		µg/Kg-dry	1	6/30/2021
Vinyl acetate	ND	5,000	5,000		µg/Kg-dry	1	6/30/2021
Vinyl chloride	ND	40	40		µg/Kg-dry	1	6/30/2021
Xylenes, Total	ND	150	150		µg/Kg-dry	1	6/30/2021
<i>Surr: 1,2-Dichloroethane-d4</i>	98.2	70-130			%REC	1	6/30/2021
<i>Surr: 4-Bromofluorobenzene</i>	106	70-130			%REC	1	6/30/2021
<i>Surr: Dibromofluoromethane</i>	103	70-130			%REC	1	6/30/2021
<i>Surr: Toluene-d8</i>	97.6	70-130			%REC	1	6/30/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20
Lab ID: 21061951-05

Client Sample ID: PS-SB-1 (1-3)
Collection Date: 6/17/2021 9:30:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/24/2021	Analyst: RM	
Aroclor 1016	ND	330	330		µg/Kg-dry	1	6/24/2021
Aroclor 1221	ND	330	330		µg/Kg-dry	1	6/24/2021
Aroclor 1232	ND	330	330		µg/Kg-dry	1	6/24/2021
Aroclor 1242	ND	330	330		µg/Kg-dry	1	6/24/2021
Aroclor 1248	ND	330	330		µg/Kg-dry	1	6/24/2021
Aroclor 1254	ND	330	330		µg/Kg-dry	1	6/24/2021
Aroclor 1260	ND	330	330		µg/Kg-dry	1	6/24/2021
Aroclor 1262	ND	330	330		µg/Kg-dry	1	6/24/2021
Aroclor 1268	ND	330	330		µg/Kg-dry	1	6/24/2021
Surr: Decachlorobiphenyl	50.1	40-140			%REC	1	6/24/2021
Surr: Tetrachloro-m-xylene	52.9	45-124			%REC	1	6/24/2021
MERCURY BY CVAA			SW7471B		Prep Date: 6/24/2021	Analyst: MTW	
Mercury	ND	50	50		µg/Kg-dry	1	6/24/2021
METALS BY ICP-MS			SW6020B		Prep Date: 6/25/2021	Analyst: STP	
Arsenic	6,100	2,000	2,000		µg/Kg-dry	1	6/26/2021
Barium	41,000	1,000	1,000		µg/Kg-dry	1	6/26/2021
Cadmium	230	200	200		µg/Kg-dry	1	6/26/2021
Chromium	9,400	2,000	2,000		µg/Kg-dry	1	6/26/2021
Copper	13,000	1,000	1,000		µg/Kg-dry	1	6/26/2021
Lead	32,000	10,000	10,000		µg/Kg-dry	1	6/26/2021
Selenium	460	430	200		µg/Kg-dry	1	6/28/2021
Silver	ND	430	100		µg/Kg-dry	1	6/26/2021
Zinc	44,000	1,000	1,000		µg/Kg-dry	1	6/26/2021
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep Date: 6/24/2021	Analyst: EE	
1,2,4-Trichlorobenzene	ND	330	330		µg/Kg-dry	1	6/25/2021
1,2-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	6/25/2021
1,3-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	6/25/2021
1,4-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	6/25/2021
2,4,5-Trichlorophenol	ND	300	300		µg/Kg-dry	1	6/25/2021
2,4,6-Trichlorophenol	ND	330	330		µg/Kg-dry	1	6/25/2021
2,4-Dichlorophenol	ND	330	330		µg/Kg-dry	1	6/25/2021
2,4-Dimethylphenol	ND	330	330		µg/Kg-dry	1	6/25/2021
2,4-Dinitrophenol	ND	830	830		µg/Kg-dry	1	6/25/2021
2,4-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	6/25/2021
2,6-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	6/25/2021
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	1	6/25/2021
2-Chlorophenol	ND	330	330		µg/Kg-dry	1	6/25/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20
 Lab ID: 21061951-05

Client Sample ID: PS-SB-1 (1-3)
 Collection Date: 6/17/2021 9:30:00 AM
 Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	6/25/2021
2-Methylphenol	ND	330	330		µg/Kg-dry	1	6/25/2021
2-Nitroaniline	ND	830	830		µg/Kg-dry	1	6/25/2021
2-Nitrophenol	ND	330	330		µg/Kg-dry	1	6/25/2021
3&4-Methylphenol	ND	330	330		µg/Kg-dry	1	6/25/2021
3,3'-Dichlorobenzidine	ND	2,000	2,000		µg/Kg-dry	1	6/25/2021
3-Nitroaniline	ND	830	830		µg/Kg-dry	1	6/25/2021
4,6-Dinitro-2-methylphenol	ND	830	830		µg/Kg-dry	1	6/25/2021
4-Bromophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	6/25/2021
4-Chloro-3-methylphenol	ND	280	280		µg/Kg-dry	1	6/25/2021
4-Chloroaniline	ND	330	330		µg/Kg-dry	1	6/25/2021
4-Chlorophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	6/25/2021
4-Nitroaniline	ND	830	830		µg/Kg-dry	1	6/25/2021
4-Nitrophenol	ND	830	830		µg/Kg-dry	1	6/25/2021
Acenaphthene	ND	330	330		µg/Kg-dry	1	6/25/2021
Acenaphthylene	ND	330	330		µg/Kg-dry	1	6/25/2021
Anthracene	ND	330	330		µg/Kg-dry	1	6/25/2021
Benzo(a)anthracene	360	330	330		µg/Kg-dry	1	6/25/2021
Benzo(a)pyrene	370	330	330		µg/Kg-dry	1	6/25/2021
Benzo(b)fluoranthene	540	330	330		µg/Kg-dry	1	6/25/2021
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	6/25/2021
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	6/25/2021
Bis(2-chloroethoxy)methane	ND	330	330		µg/Kg-dry	1	6/25/2021
Bis(2-chloroethyl)ether	ND	100	100		µg/Kg-dry	1	6/25/2021
Bis(2-chloroisopropyl)ether	ND	330	330		µg/Kg-dry	1	6/25/2021
Bis(2-ethylhexyl)phthalate	ND	330	330		µg/Kg-dry	1	6/25/2021
Butyl benzyl phthalate	ND	330	330		µg/Kg-dry	1	6/25/2021
Carbazole	ND	330	330		µg/Kg-dry	1	6/25/2021
Chrysene	390	330	330		µg/Kg-dry	1	6/25/2021
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	6/25/2021
Dibenzofuran	ND	330	330		µg/Kg-dry	1	6/25/2021
Diethyl phthalate	ND	330	330		µg/Kg-dry	1	6/25/2021
Dimethyl phthalate	ND	330	330		µg/Kg-dry	1	6/25/2021
Di-n-butyl phthalate	ND	330	330		µg/Kg-dry	1	6/25/2021
Di-n-octyl phthalate	ND	330	330		µg/Kg-dry	1	6/25/2021
Fluoranthene	610	330	330		µg/Kg-dry	1	6/25/2021
Fluorene	ND	330	330		µg/Kg-dry	1	6/25/2021
Hexachlorobenzene	ND	330	330		µg/Kg-dry	1	6/25/2021
Hexachlorobutadiene	ND	50	50		µg/Kg-dry	1	6/25/2021
Hexachlorocyclopentadiene	ND	330	330		µg/Kg-dry	1	6/25/2021
Hexachloroethane	ND	300	300		µg/Kg-dry	1	6/25/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20
Lab ID: 21061951-05

Client Sample ID: PS-SB-1 (1-3)
Collection Date: 6/17/2021 9:30:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	ND	330	330		µg/Kg-dry	1	6/25/2021
Isophorone	ND	330	330		µg/Kg-dry	1	6/25/2021
Naphthalene	ND	330	330		µg/Kg-dry	1	6/25/2021
Nitrobenzene	ND	330	330		µg/Kg-dry	1	6/25/2021
N-Nitrosodi-n-propylamine	ND	330	330		µg/Kg-dry	1	6/25/2021
N-Nitrosodiphenylamine	ND	330	330		µg/Kg-dry	1	6/25/2021
Pentachlorophenol	ND	35	20		µg/Kg-dry	1	6/25/2021
Phenanthrene	ND	330	330		µg/Kg-dry	1	6/25/2021
Phenol	ND	330	330		µg/Kg-dry	1	6/25/2021
Pyrene	520	330	330		µg/Kg-dry	1	6/25/2021
Surr: 2,4,6-Tribromophenol	70.6	38-92			%REC	1	6/25/2021
Surr: 2-Fluorobiphenyl	79.4	44-107			%REC	1	6/25/2021
Surr: 2-Fluorophenol	63.8	37-109			%REC	1	6/25/2021
Surr: 4-Terphenyl-d14	77.8	52-123			%REC	1	6/25/2021
Surr: Nitrobenzene-d5	75.5	41-94			%REC	1	6/25/2021
Surr: Phenol-d6	71.7	28-111			%REC	1	6/25/2021

VOLATILE ORGANIC COMPOUNDS

SW8260C

Prep Date: 6/21/2021

Analyst: **SJB**

1,1,1,2-Tetrachloroethane	ND	100	100		µg/Kg-dry	1	6/30/2021
1,1,1-Trichloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1,2,2-Tetrachloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1,2-Trichloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1,2-Trichlorotrifluoroethane	ND	100	100		µg/Kg-dry	1	6/30/2021
1,1-Dichloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1-Dichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
1,2,3-Trichloropropane	ND	100	100		µg/Kg-dry	1	6/30/2021
1,2,4-Trichlorobenzene	ND	250	250		µg/Kg-dry	1	6/30/2021
1,2,4-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
1,2-Dibromo-3-chloropropane	ND	110	10		µg/Kg-dry	1	6/30/2021
1,2-Dibromoethane	ND	34	20		µg/Kg-dry	1	6/30/2021
1,2-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
1,2-Dichloroethane	ND	110	50		µg/Kg-dry	1	6/30/2021
1,2-Dichloropropane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,3,5-Trimethylbenzene	ND	110	100		µg/Kg-dry	1	6/30/2021
1,3-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
1,4-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
2-Butanone	ND	750	750		µg/Kg-dry	1	6/30/2021
2-Hexanone	ND	2,500	2,500		µg/Kg-dry	1	6/30/2021
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	6/30/2021
4-Methyl-2-pentanone	ND	2,500	2,500		µg/Kg-dry	1	6/30/2021
Acetone	ND	1,000	1,000		µg/Kg-dry	1	6/30/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20
Lab ID: 21061951-05

Client Sample ID: PS-SB-1 (1-3)
Collection Date: 6/17/2021 9:30:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Acrylonitrile	ND	110	100		µg/Kg-dry	1	6/30/2021
Benzene	ND	50	50		µg/Kg-dry	1	6/30/2021
Bromodichloromethane	ND	100	100		µg/Kg-dry	1	6/30/2021
Bromoform	ND	100	100		µg/Kg-dry	1	6/30/2021
Bromomethane	ND	200	200		µg/Kg-dry	1	6/30/2021
Carbon disulfide	ND	250	250		µg/Kg-dry	1	6/30/2021
Carbon tetrachloride	ND	50	50		µg/Kg-dry	1	6/30/2021
Chlorobenzene	ND	50	50		µg/Kg-dry	1	6/30/2021
Chloroethane	ND	250	250		µg/Kg-dry	1	6/30/2021
Chloroform	ND	50	50		µg/Kg-dry	1	6/30/2021
Chloromethane	ND	250	250		µg/Kg-dry	1	6/30/2021
cis-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
cis-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	6/30/2021
Dibromochloromethane	ND	100	100		µg/Kg-dry	1	6/30/2021
Dibromomethane	ND	250	250		µg/Kg-dry	1	6/30/2021
Dichlorodifluoromethane	ND	250	250		µg/Kg-dry	1	6/30/2021
Diethyl ether	ND	200	200		µg/Kg-dry	1	6/30/2021
Ethylbenzene	ND	50	50		µg/Kg-dry	1	6/30/2021
Hexachloroethane	ND	300	300		µg/Kg-dry	1	6/30/2021
Isopropylbenzene	ND	250	250		µg/Kg-dry	1	6/30/2021
m,p-Xylene	ND	100	100		µg/Kg-dry	1	6/30/2021
Methyl tert-butyl ether	ND	250	250		µg/Kg-dry	1	6/30/2021
Methylene chloride	ND	280	100		µg/Kg-dry	1	6/30/2021
Naphthalene	ND	330	330		µg/Kg-dry	1	6/30/2021
n-Propylbenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
o-Xylene	ND	50	50		µg/Kg-dry	1	6/30/2021
Styrene	ND	50	50		µg/Kg-dry	1	6/30/2021
Tetrachloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
Toluene	ND	100	100		µg/Kg-dry	1	6/30/2021
trans-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
trans-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	6/30/2021
Trichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
Trichlorofluoromethane	ND	100	100		µg/Kg-dry	1	6/30/2021
Vinyl acetate	ND	5,000	5,000		µg/Kg-dry	1	6/30/2021
Vinyl chloride	ND	40	40		µg/Kg-dry	1	6/30/2021
Xylenes, Total	ND	150	150		µg/Kg-dry	1	6/30/2021
Surr: 1,2-Dichloroethane-d4	105	70-130			%REC	1	6/30/2021
Surr: 4-Bromofluorobenzene	99.6	70-130			%REC	1	6/30/2021
Surr: Dibromofluoromethane	109	70-130			%REC	1	6/30/2021
Surr: Toluene-d8	98.0	70-130			%REC	1	6/30/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20
Lab ID: 21061951-05

Client Sample ID: PS-SB-1 (1-3)
Collection Date: 6/17/2021 9:30:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
CHROMIUM, HEXAVALENT			SW7196A				Prep Date: 7/13/2021 Analyst: RZM
Chromium, Hexavalent	ND	2,000	2,000		µg/Kg-dry	1	7/13/2021
MOISTURE			SW3550C				Analyst: CDG
Moisture	9.2	0.10	0		% of sample	1	6/25/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20
Lab ID: 21061951-06

Client Sample ID: PS-SB-2 (17-19)
Collection Date: 6/17/2021 10:47:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471B		Prep Date: 6/24/2021		Analyst: MTW
Mercury	ND	50	50		µg/Kg-dry	1	6/24/2021
METALS BY ICP-MS			SW6020B		Prep Date: 6/25/2021		Analyst: STP
Arsenic	6,000	2,000	2,000		µg/Kg-dry	1	6/26/2021
Barium	16,000	1,000	1,000		µg/Kg-dry	1	6/26/2021
Cadmium	220	200	200		µg/Kg-dry	1	6/26/2021
Chromium	5,100	2,000	2,000		µg/Kg-dry	1	6/26/2021
Copper	10,000	1,000	1,000		µg/Kg-dry	1	6/26/2021
Lead	ND	10,000	10,000		µg/Kg-dry	1	6/26/2021
Selenium	ND	350	200		µg/Kg-dry	1	6/26/2021
Silver	ND	350	100		µg/Kg-dry	1	6/26/2021
Zinc	43,000	1,000	1,000		µg/Kg-dry	1	6/26/2021
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep Date: 6/24/2021		Analyst: EE
1,2,4-Trichlorobenzene	ND	330	330		µg/Kg-dry	1	6/29/2021
1,2-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	6/29/2021
1,3-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	6/29/2021
1,4-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	6/29/2021
2,4,5-Trichlorophenol	ND	300	300		µg/Kg-dry	1	6/29/2021
2,4,6-Trichlorophenol	ND	330	330		µg/Kg-dry	1	6/29/2021
2,4-Dichlorophenol	ND	330	330		µg/Kg-dry	1	6/29/2021
2,4-Dimethylphenol	ND	330	330		µg/Kg-dry	1	6/29/2021
2,4-Dinitrophenol	ND	830	830		µg/Kg-dry	1	6/29/2021
2,4-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	6/29/2021
2,6-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	6/29/2021
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	1	6/29/2021
2-Chlorophenol	ND	330	330		µg/Kg-dry	1	6/29/2021
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	6/29/2021
2-Methylphenol	ND	330	330		µg/Kg-dry	1	6/29/2021
2-Nitroaniline	ND	830	830		µg/Kg-dry	1	6/29/2021
2-Nitrophenol	ND	330	330		µg/Kg-dry	1	6/29/2021
3&4-Methylphenol	ND	330	330		µg/Kg-dry	1	6/29/2021
3,3'-Dichlorobenzidine	ND	2,000	2,000		µg/Kg-dry	1	6/29/2021
3-Nitroaniline	ND	830	830		µg/Kg-dry	1	6/29/2021
4,6-Dinitro-2-methylphenol	ND	830	830		µg/Kg-dry	1	6/29/2021
4-Bromophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	6/29/2021
4-Chloro-3-methylphenol	ND	280	280		µg/Kg-dry	1	6/29/2021
4-Chloroaniline	ND	330	330		µg/Kg-dry	1	6/29/2021
4-Chlorophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	6/29/2021
4-Nitroaniline	ND	830	830		µg/Kg-dry	1	6/29/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20
Lab ID: 21061951-06

Client Sample ID: PS-SB-2 (17-19)
Collection Date: 6/17/2021 10:47:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	ND	830	830		µg/Kg-dry	1	6/29/2021
Acenaphthene	ND	330	330		µg/Kg-dry	1	6/29/2021
Acenaphthylene	ND	330	330		µg/Kg-dry	1	6/29/2021
Anthracene	ND	330	330		µg/Kg-dry	1	6/29/2021
Benzo(a)anthracene	ND	330	330		µg/Kg-dry	1	6/29/2021
Benzo(a)pyrene	ND	330	330		µg/Kg-dry	1	6/29/2021
Benzo(b)fluoranthene	ND	330	330		µg/Kg-dry	1	6/29/2021
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	6/29/2021
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	6/29/2021
Bis(2-chloroethoxy)methane	ND	330	330		µg/Kg-dry	1	6/29/2021
Bis(2-chloroethyl)ether	ND	100	100		µg/Kg-dry	1	6/29/2021
Bis(2-chloroisopropyl)ether	ND	330	330		µg/Kg-dry	1	6/29/2021
Bis(2-ethylhexyl)phthalate	ND	330	330		µg/Kg-dry	1	6/29/2021
Butyl benzyl phthalate	ND	330	330		µg/Kg-dry	1	6/29/2021
Carbazole	ND	330	330		µg/Kg-dry	1	6/29/2021
Chrysene	ND	330	330		µg/Kg-dry	1	6/29/2021
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	6/29/2021
Dibenzofuran	ND	330	330		µg/Kg-dry	1	6/29/2021
Diethyl phthalate	ND	330	330		µg/Kg-dry	1	6/29/2021
Dimethyl phthalate	ND	330	330		µg/Kg-dry	1	6/29/2021
Di-n-butyl phthalate	ND	330	330		µg/Kg-dry	1	6/29/2021
Di-n-octyl phthalate	ND	330	330		µg/Kg-dry	1	6/29/2021
Fluoranthene	ND	330	330		µg/Kg-dry	1	6/29/2021
Fluorene	ND	330	330		µg/Kg-dry	1	6/29/2021
Hexachlorobenzene	ND	330	330		µg/Kg-dry	1	6/29/2021
Hexachlorobutadiene	ND	50	50		µg/Kg-dry	1	6/29/2021
Hexachlorocyclopentadiene	ND	330	330		µg/Kg-dry	1	6/29/2021
Hexachloroethane	ND	300	300		µg/Kg-dry	1	6/29/2021
Indeno(1,2,3-cd)pyrene	ND	330	330		µg/Kg-dry	1	6/29/2021
Isophorone	ND	330	330		µg/Kg-dry	1	6/29/2021
Naphthalene	ND	330	330		µg/Kg-dry	1	6/29/2021
Nitrobenzene	ND	330	330		µg/Kg-dry	1	6/29/2021
N-Nitrosodi-n-propylamine	ND	330	330		µg/Kg-dry	1	6/29/2021
N-Nitrosodiphenylamine	ND	330	330		µg/Kg-dry	1	6/29/2021
Pentachlorophenol	ND	35	20		µg/Kg-dry	1	6/29/2021
Phenanthrene	ND	330	330		µg/Kg-dry	1	6/29/2021
Phenol	ND	330	330		µg/Kg-dry	1	6/29/2021
Pyrene	ND	330	330		µg/Kg-dry	1	6/29/2021
<i>Surr: 2,4,6-Tribromophenol</i>	76.4	38-92			%REC	1	6/29/2021
<i>Surr: 2-Fluorobiphenyl</i>	78.8	44-107			%REC	1	6/29/2021
<i>Surr: 2-Fluorophenol</i>	78.2	37-109			%REC	1	6/29/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20
Lab ID: 21061951-06

Client Sample ID: PS-SB-2 (17-19)
Collection Date: 6/17/2021 10:47:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Surr: 4-Terphenyl-d14	79.4	52-123			%REC	1	6/29/2021
Surr: Nitrobenzene-d5	74.7	41-94			%REC	1	6/29/2021
Surr: Phenol-d6	86.7	28-111			%REC	1	6/29/2021

VOLATILE ORGANIC COMPOUNDS

SW8260C

Prep Date: 6/21/2021

Analyst: **SJB**

1,1,1,2-Tetrachloroethane	ND	100	100		µg/Kg-dry	1	6/30/2021
1,1,1-Trichloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1,2,2-Tetrachloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1,2-Trichloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1,2-Trichlorotrifluoroethane	ND	100	100		µg/Kg-dry	1	6/30/2021
1,1-Dichloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1-Dichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
1,2,3-Trichloropropane	ND	100	100		µg/Kg-dry	1	6/30/2021
1,2,4-Trichlorobenzene	ND	250	250		µg/Kg-dry	1	6/30/2021
1,2,4-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
1,2-Dibromo-3-chloropropane	ND	140	10		µg/Kg-dry	1	6/30/2021
1,2-Dibromoethane	ND	42	20		µg/Kg-dry	1	6/30/2021
1,2-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
1,2-Dichloroethane	ND	140	50		µg/Kg-dry	1	6/30/2021
1,2-Dichloropropane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,3,5-Trimethylbenzene	ND	140	100		µg/Kg-dry	1	6/30/2021
1,3-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
1,4-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
2-Butanone	ND	750	750		µg/Kg-dry	1	6/30/2021
2-Hexanone	ND	2,500	2,500		µg/Kg-dry	1	6/30/2021
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	6/30/2021
4-Methyl-2-pentanone	ND	2,500	2,500		µg/Kg-dry	1	6/30/2021
Acetone	ND	1,000	1,000		µg/Kg-dry	1	6/30/2021
Acrylonitrile	ND	140	100		µg/Kg-dry	1	6/30/2021
Benzene	ND	50	50		µg/Kg-dry	1	6/30/2021
Bromodichloromethane	ND	100	100		µg/Kg-dry	1	6/30/2021
Bromoform	ND	100	100		µg/Kg-dry	1	6/30/2021
Bromomethane	ND	200	200		µg/Kg-dry	1	6/30/2021
Carbon disulfide	ND	250	250		µg/Kg-dry	1	6/30/2021
Carbon tetrachloride	ND	50	50		µg/Kg-dry	1	6/30/2021
Chlorobenzene	ND	50	50		µg/Kg-dry	1	6/30/2021
Chloroethane	ND	250	250		µg/Kg-dry	1	6/30/2021
Chloroform	ND	50	50		µg/Kg-dry	1	6/30/2021
Chloromethane	ND	250	250		µg/Kg-dry	1	6/30/2021
cis-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
cis-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	6/30/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20
Lab ID: 21061951-06

Client Sample ID: PS-SB-2 (17-19)
Collection Date: 6/17/2021 10:47:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Dibromochloromethane	ND	100	100		µg/Kg-dry	1	6/30/2021
Dibromomethane	ND	250	250		µg/Kg-dry	1	6/30/2021
Dichlorodifluoromethane	ND	250	250		µg/Kg-dry	1	6/30/2021
Diethyl ether	ND	200	200		µg/Kg-dry	1	6/30/2021
Ethylbenzene	ND	50	50		µg/Kg-dry	1	6/30/2021
Hexachloroethane	ND	300	300		µg/Kg-dry	1	6/30/2021
Isopropylbenzene	ND	250	250		µg/Kg-dry	1	6/30/2021
m,p-Xylene	ND	100	100		µg/Kg-dry	1	6/30/2021
Methyl tert-butyl ether	ND	250	250		µg/Kg-dry	1	6/30/2021
Methylene chloride	ND	350	100		µg/Kg-dry	1	6/30/2021
Naphthalene	ND	330	330		µg/Kg-dry	1	6/30/2021
n-Propylbenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
o-Xylene	ND	50	50		µg/Kg-dry	1	6/30/2021
Styrene	ND	50	50		µg/Kg-dry	1	6/30/2021
Tetrachloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
Toluene	ND	100	100		µg/Kg-dry	1	6/30/2021
trans-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
trans-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	6/30/2021
Trichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
Trichlorofluoromethane	ND	100	100		µg/Kg-dry	1	6/30/2021
Vinyl acetate	ND	5,000	5,000		µg/Kg-dry	1	6/30/2021
Vinyl chloride	ND	42	40		µg/Kg-dry	1	6/30/2021
Xylenes, Total	ND	150	150		µg/Kg-dry	1	6/30/2021
Surr: 1,2-Dichloroethane-d4	102	70-130			%REC	1	6/30/2021
Surr: 4-Bromofluorobenzene	99.9	70-130			%REC	1	6/30/2021
Surr: Dibromofluoromethane	108	70-130			%REC	1	6/30/2021
Surr: Toluene-d8	94.5	70-130			%REC	1	6/30/2021
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 7/13/2021		Analyst: RZM
Chromium, Hexavalent	ND	2,000	2,000		µg/Kg-dry	1	7/13/2021
MOISTURE			SW3550C				Analyst: CDG
Moisture	6.2	0.10	0		% of sample	1	6/25/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20
 Lab ID: 21061951-07

Client Sample ID: PS-SB-3 (16-18)
 Collection Date: 6/17/2021 11:30:00 AM
 Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020B		Prep Date: 6/25/2021	Analyst: STP	
Arsenic	4,000	2,000	2,000		µg/Kg-dry	1	6/26/2021
Cadmium	ND	200	200		µg/Kg-dry	1	6/26/2021
Chromium	11,000	2,000	2,000		µg/Kg-dry	1	6/26/2021
Lead	ND	10,000	10,000		µg/Kg-dry	1	6/26/2021
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)			SW8270E		Prep Date: 6/25/2021	Analyst: JZB	
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	1	6/28/2021
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	6/28/2021
Acenaphthene	ND	330	330		µg/Kg-dry	1	6/28/2021
Acenaphthylene	ND	330	330		µg/Kg-dry	1	6/28/2021
Anthracene	ND	330	330		µg/Kg-dry	1	6/28/2021
Benzo(a)anthracene	ND	330	330		µg/Kg-dry	1	6/28/2021
Benzo(a)pyrene	ND	330	330		µg/Kg-dry	1	6/28/2021
Benzo(b)fluoranthene	ND	330	330		µg/Kg-dry	1	6/28/2021
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	6/28/2021
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	6/28/2021
Chrysene	ND	330	330		µg/Kg-dry	1	6/28/2021
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	6/28/2021
Fluoranthene	ND	330	330		µg/Kg-dry	1	6/28/2021
Fluorene	ND	330	330		µg/Kg-dry	1	6/28/2021
Indeno(1,2,3-cd)pyrene	ND	330	330		µg/Kg-dry	1	6/28/2021
Naphthalene	ND	330	330		µg/Kg-dry	1	6/28/2021
Phenanthrene	ND	330	330		µg/Kg-dry	1	6/28/2021
Pyrene	ND	330	330		µg/Kg-dry	1	6/28/2021
Surr: 2-Fluorobiphenyl	89.1	20-140			%REC	1	6/28/2021
Surr: 4-Terphenyl-d14	89.0	22-172			%REC	1	6/28/2021
Surr: Nitrobenzene-d5	84.7	28-140			%REC	1	6/28/2021
VOLATILE ORGANIC COMPOUNDS			SW8260C		Prep Date: 6/21/2021	Analyst: SJB	
1,1,1,2-Tetrachloroethane	ND	100	100		µg/Kg-dry	1	6/30/2021
1,1,1-Trichloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1,2,2-Tetrachloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1,2-Trichloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1,2-Trichlorotrifluoroethane	ND	100	100		µg/Kg-dry	1	6/30/2021
1,1-Dichloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1-Dichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
1,2,3-Trichloropropane	ND	100	100		µg/Kg-dry	1	6/30/2021
1,2,4-Trichlorobenzene	ND	250	250		µg/Kg-dry	1	6/30/2021
1,2,4-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
1,2-Dibromo-3-chloropropane	ND	120	10		µg/Kg-dry	1	6/30/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20
Lab ID: 21061951-07

Client Sample ID: PS-SB-3 (16-18)
Collection Date: 6/17/2021 11:30:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND	35	20		µg/Kg-dry	1	6/30/2021
1,2-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
1,2-Dichloroethane	ND	120	50		µg/Kg-dry	1	6/30/2021
1,2-Dichloropropane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,3,5-Trimethylbenzene	ND	120	100		µg/Kg-dry	1	6/30/2021
1,3-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
1,4-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
2-Butanone	ND	750	750		µg/Kg-dry	1	6/30/2021
2-Hexanone	ND	2,500	2,500		µg/Kg-dry	1	6/30/2021
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	6/30/2021
4-Methyl-2-pentanone	ND	2,500	2,500		µg/Kg-dry	1	6/30/2021
Acetone	ND	1,000	1,000		µg/Kg-dry	1	6/30/2021
Acrylonitrile	ND	120	100		µg/Kg-dry	1	6/30/2021
Benzene	ND	50	50		µg/Kg-dry	1	6/30/2021
Bromodichloromethane	ND	100	100		µg/Kg-dry	1	6/30/2021
Bromoform	ND	100	100		µg/Kg-dry	1	6/30/2021
Bromomethane	ND	200	200		µg/Kg-dry	1	6/30/2021
Carbon disulfide	ND	250	250		µg/Kg-dry	1	6/30/2021
Carbon tetrachloride	ND	50	50		µg/Kg-dry	1	6/30/2021
Chlorobenzene	ND	50	50		µg/Kg-dry	1	6/30/2021
Chloroethane	ND	250	250		µg/Kg-dry	1	6/30/2021
Chloroform	ND	50	50		µg/Kg-dry	1	6/30/2021
Chloromethane	ND	250	250		µg/Kg-dry	1	6/30/2021
cis-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
cis-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	6/30/2021
Dibromochloromethane	ND	100	100		µg/Kg-dry	1	6/30/2021
Dibromomethane	ND	250	250		µg/Kg-dry	1	6/30/2021
Dichlorodifluoromethane	ND	250	250		µg/Kg-dry	1	6/30/2021
Diethyl ether	ND	200	200		µg/Kg-dry	1	6/30/2021
Ethylbenzene	ND	50	50		µg/Kg-dry	1	6/30/2021
Hexachloroethane	ND	300	300		µg/Kg-dry	1	6/30/2021
Isopropylbenzene	ND	250	250		µg/Kg-dry	1	6/30/2021
m,p-Xylene	ND	100	100		µg/Kg-dry	1	6/30/2021
Methyl tert-butyl ether	ND	250	250		µg/Kg-dry	1	6/30/2021
Methylene chloride	ND	290	100		µg/Kg-dry	1	6/30/2021
Naphthalene	ND	330	330		µg/Kg-dry	1	6/30/2021
n-Propylbenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
o-Xylene	ND	50	50		µg/Kg-dry	1	6/30/2021
Styrene	ND	50	50		µg/Kg-dry	1	6/30/2021
Tetrachloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
Toluene	ND	100	100		µg/Kg-dry	1	6/30/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20
Lab ID: 21061951-07

Client Sample ID: PS-SB-3 (16-18)
Collection Date: 6/17/2021 11:30:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
trans-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
trans-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	6/30/2021
Trichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
Trichlorofluoromethane	ND	100	100		µg/Kg-dry	1	6/30/2021
Vinyl acetate	ND	5,000	5,000		µg/Kg-dry	1	6/30/2021
Vinyl chloride	ND	40	40		µg/Kg-dry	1	6/30/2021
Xylenes, Total	ND	150	150		µg/Kg-dry	1	6/30/2021
<i>Surr: 1,2-Dichloroethane-d4</i>	98.9	70-130			%REC	1	6/30/2021
<i>Surr: 4-Bromofluorobenzene</i>	99.5	70-130			%REC	1	6/30/2021
<i>Surr: Dibromofluoromethane</i>	104	70-130			%REC	1	6/30/2021
<i>Surr: Toluene-d8</i>	98.0	70-130			%REC	1	6/30/2021
CHROMIUM, HEXAVALENT			SW7196A			Prep Date: 7/13/2021	Analyst: RZM
Chromium, Hexavalent	ND	2,000	2,000		µg/Kg-dry	1	7/13/2021
MOISTURE			SW3550C				Analyst: CDG
Moisture	14	0.10	0		% of sample	1	6/25/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20
 Lab ID: 21061951-08

Client Sample ID: PS-SB-4 (6-8)
 Collection Date: 6/17/2021 12:05:00 PM
 Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020B			Prep Date: 6/25/2021	Analyst: STP
Arsenic	2,100	2,000	2,000		µg/Kg-dry	1	6/26/2021
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)			SW8270E			Prep Date: 6/25/2021	Analyst: EEW
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	1	6/25/2021
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	6/25/2021
Acenaphthene	ND	330	330		µg/Kg-dry	1	6/25/2021
Acenaphthylene	ND	330	330		µg/Kg-dry	1	6/25/2021
Anthracene	ND	330	330		µg/Kg-dry	1	6/25/2021
Benzo(a)anthracene	ND	330	330		µg/Kg-dry	1	6/25/2021
Benzo(a)pyrene	ND	330	330		µg/Kg-dry	1	6/25/2021
Benzo(b)fluoranthene	ND	330	330		µg/Kg-dry	1	6/25/2021
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	6/25/2021
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	6/25/2021
Chrysene	ND	330	330		µg/Kg-dry	1	6/25/2021
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	6/25/2021
Fluoranthene	ND	330	330		µg/Kg-dry	1	6/25/2021
Fluorene	ND	330	330		µg/Kg-dry	1	6/25/2021
Indeno(1,2,3-cd)pyrene	ND	330	330		µg/Kg-dry	1	6/25/2021
Naphthalene	ND	330	330		µg/Kg-dry	1	6/25/2021
Phenanthrene	ND	330	330		µg/Kg-dry	1	6/25/2021
Pyrene	ND	330	330		µg/Kg-dry	1	6/25/2021
Surr: 2-Fluorobiphenyl	85.1	20-140			%REC	1	6/25/2021
Surr: 4-Terphenyl-d14	103	22-172			%REC	1	6/25/2021
Surr: Nitrobenzene-d5	93.8	28-140			%REC	1	6/25/2021
VOLATILE ORGANIC COMPOUNDS			SW8260C			Prep Date: 6/21/2021	Analyst: SJB
1,1,1,2-Tetrachloroethane	ND	100	100		µg/Kg-dry	1	6/30/2021
1,1,1-Trichloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1,2,2-Tetrachloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1,2-Trichloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1,2-Trichlorotrifluoroethane	ND	100	100		µg/Kg-dry	1	6/30/2021
1,1-Dichloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1-Dichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
1,2,3-Trichloropropane	ND	100	100		µg/Kg-dry	1	6/30/2021
1,2,4-Trichlorobenzene	ND	250	250		µg/Kg-dry	1	6/30/2021
1,2,4-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
1,2-Dibromo-3-chloropropane	ND	150	10		µg/Kg-dry	1	6/30/2021
1,2-Dibromoethane	ND	46	20		µg/Kg-dry	1	6/30/2021
1,2-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
1,2-Dichloroethane	ND	150	50		µg/Kg-dry	1	6/30/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20
Lab ID: 21061951-08

Client Sample ID: PS-SB-4 (6-8)
Collection Date: 6/17/2021 12:05:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
1,2-Dichloropropane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,3,5-Trimethylbenzene	ND	150	100		µg/Kg-dry	1	6/30/2021
1,3-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
1,4-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
2-Butanone	ND	750	750		µg/Kg-dry	1	6/30/2021
2-Hexanone	ND	2,500	2,500		µg/Kg-dry	1	6/30/2021
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	6/30/2021
4-Methyl-2-pentanone	ND	2,500	2,500		µg/Kg-dry	1	6/30/2021
Acetone	ND	1,000	1,000		µg/Kg-dry	1	6/30/2021
Acrylonitrile	ND	150	100		µg/Kg-dry	1	6/30/2021
Benzene	ND	50	50		µg/Kg-dry	1	6/30/2021
Bromodichloromethane	ND	100	100		µg/Kg-dry	1	6/30/2021
Bromoform	ND	100	100		µg/Kg-dry	1	6/30/2021
Bromomethane	ND	200	200		µg/Kg-dry	1	6/30/2021
Carbon disulfide	ND	250	250		µg/Kg-dry	1	6/30/2021
Carbon tetrachloride	ND	50	50		µg/Kg-dry	1	6/30/2021
Chlorobenzene	ND	50	50		µg/Kg-dry	1	6/30/2021
Chloroethane	ND	250	250		µg/Kg-dry	1	6/30/2021
Chloroform	ND	50	50		µg/Kg-dry	1	6/30/2021
Chloromethane	ND	250	250		µg/Kg-dry	1	6/30/2021
cis-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
cis-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	6/30/2021
Dibromochloromethane	ND	100	100		µg/Kg-dry	1	6/30/2021
Dibromomethane	ND	250	250		µg/Kg-dry	1	6/30/2021
Dichlorodifluoromethane	ND	250	250		µg/Kg-dry	1	6/30/2021
Diethyl ether	ND	200	200		µg/Kg-dry	1	6/30/2021
Ethylbenzene	ND	50	50		µg/Kg-dry	1	6/30/2021
Hexachloroethane	ND	300	300		µg/Kg-dry	1	6/30/2021
Isopropylbenzene	ND	250	250		µg/Kg-dry	1	6/30/2021
m,p-Xylene	ND	100	100		µg/Kg-dry	1	6/30/2021
Methyl tert-butyl ether	ND	250	250		µg/Kg-dry	1	6/30/2021
Methylene chloride	ND	380	100		µg/Kg-dry	1	6/30/2021
Naphthalene	ND	330	330		µg/Kg-dry	1	6/30/2021
n-Propylbenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
o-Xylene	ND	50	50		µg/Kg-dry	1	6/30/2021
Styrene	ND	50	50		µg/Kg-dry	1	6/30/2021
Tetrachloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
Toluene	ND	100	100		µg/Kg-dry	1	6/30/2021
trans-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
trans-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	6/30/2021
Trichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20
Lab ID: 21061951-08

Client Sample ID: PS-SB-4 (6-8)
Collection Date: 6/17/2021 12:05:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Trichlorofluoromethane	ND	100	100		µg/Kg-dry	1	6/30/2021
Vinyl acetate	ND	5,000	5,000		µg/Kg-dry	1	6/30/2021
Vinyl chloride	ND	46	40		µg/Kg-dry	1	6/30/2021
Xylenes, Total	ND	150	150		µg/Kg-dry	1	6/30/2021
Surr: 1,2-Dichloroethane-d4	101	70-130			%REC	1	6/30/2021
Surr: 4-Bromofluorobenzene	95.0	70-130			%REC	1	6/30/2021
Surr: Dibromofluoromethane	107	70-130			%REC	1	6/30/2021
Surr: Toluene-d8	91.2	70-130			%REC	1	6/30/2021
MOISTURE			SW3550C				Analyst: CDG
Moisture	22	0.10	0		% of sample	1	6/25/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20
 Lab ID: 21061951-09

Client Sample ID: PS-SB-1 (10-12)
 Collection Date: 6/17/2021 10:06:00 AM
 Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020B		Prep Date: 6/25/2021	Analyst: STP	
Arsenic	ND	2,000	2,000		µg/Kg-dry	1	6/26/2021
Cadmium	ND	200	200		µg/Kg-dry	1	6/26/2021
Chromium	13,000	2,000	2,000		µg/Kg-dry	1	6/26/2021
Lead	ND	10,000	10,000		µg/Kg-dry	1	6/26/2021
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)			SW8270E		Prep Date: 6/25/2021	Analyst: JZB	
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	1	6/28/2021
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	6/28/2021
Acenaphthene	ND	330	330		µg/Kg-dry	1	6/28/2021
Acenaphthylene	ND	330	330		µg/Kg-dry	1	6/28/2021
Anthracene	ND	330	330		µg/Kg-dry	1	6/28/2021
Benzo(a)anthracene	ND	330	330		µg/Kg-dry	1	6/28/2021
Benzo(a)pyrene	ND	330	330		µg/Kg-dry	1	6/28/2021
Benzo(b)fluoranthene	ND	330	330		µg/Kg-dry	1	6/28/2021
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	6/28/2021
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	6/28/2021
Chrysene	ND	330	330		µg/Kg-dry	1	6/28/2021
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	6/28/2021
Fluoranthene	ND	330	330		µg/Kg-dry	1	6/28/2021
Fluorene	ND	330	330		µg/Kg-dry	1	6/28/2021
Indeno(1,2,3-cd)pyrene	ND	330	330		µg/Kg-dry	1	6/28/2021
Naphthalene	ND	330	330		µg/Kg-dry	1	6/28/2021
Phenanthrene	ND	330	330		µg/Kg-dry	1	6/28/2021
Pyrene	ND	330	330		µg/Kg-dry	1	6/28/2021
Surr: 2-Fluorobiphenyl	88.3	20-140			%REC	1	6/28/2021
Surr: 4-Terphenyl-d14	88.2	22-172			%REC	1	6/28/2021
Surr: Nitrobenzene-d5	84.9	28-140			%REC	1	6/28/2021
VOLATILE ORGANIC COMPOUNDS			SW8260C		Prep Date: 6/21/2021	Analyst: SJB	
1,1,1,2-Tetrachloroethane	ND	100	100		µg/Kg-dry	1	6/30/2021
1,1,1-Trichloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1,2,2-Tetrachloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1,2-Trichloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1,2-Trichlorotrifluoroethane	ND	100	100		µg/Kg-dry	1	6/30/2021
1,1-Dichloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1-Dichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
1,2,3-Trichloropropane	ND	100	100		µg/Kg-dry	1	6/30/2021
1,2,4-Trichlorobenzene	ND	250	250		µg/Kg-dry	1	6/30/2021
1,2,4-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
1,2-Dibromo-3-chloropropane	ND	120	10		µg/Kg-dry	1	6/30/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20
Lab ID: 21061951-09

Client Sample ID: PS-SB-1 (10-12)
Collection Date: 6/17/2021 10:06:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND	36	20		µg/Kg-dry	1	6/30/2021
1,2-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
1,2-Dichloroethane	ND	120	50		µg/Kg-dry	1	6/30/2021
1,2-Dichloropropane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,3,5-Trimethylbenzene	ND	120	100		µg/Kg-dry	1	6/30/2021
1,3-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
1,4-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
2-Butanone	ND	750	750		µg/Kg-dry	1	6/30/2021
2-Hexanone	ND	2,500	2,500		µg/Kg-dry	1	6/30/2021
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	6/30/2021
4-Methyl-2-pentanone	ND	2,500	2,500		µg/Kg-dry	1	6/30/2021
Acetone	ND	1,000	1,000		µg/Kg-dry	1	6/30/2021
Acrylonitrile	ND	120	100		µg/Kg-dry	1	6/30/2021
Benzene	ND	50	50		µg/Kg-dry	1	6/30/2021
Bromodichloromethane	ND	100	100		µg/Kg-dry	1	6/30/2021
Bromoform	ND	100	100		µg/Kg-dry	1	6/30/2021
Bromomethane	ND	200	200		µg/Kg-dry	1	6/30/2021
Carbon disulfide	ND	250	250		µg/Kg-dry	1	6/30/2021
Carbon tetrachloride	ND	50	50		µg/Kg-dry	1	6/30/2021
Chlorobenzene	ND	50	50		µg/Kg-dry	1	6/30/2021
Chloroethane	ND	250	250		µg/Kg-dry	1	6/30/2021
Chloroform	ND	50	50		µg/Kg-dry	1	6/30/2021
Chloromethane	ND	250	250		µg/Kg-dry	1	6/30/2021
cis-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
cis-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	6/30/2021
Dibromochloromethane	ND	100	100		µg/Kg-dry	1	6/30/2021
Dibromomethane	ND	250	250		µg/Kg-dry	1	6/30/2021
Dichlorodifluoromethane	ND	250	250		µg/Kg-dry	1	6/30/2021
Diethyl ether	ND	200	200		µg/Kg-dry	1	6/30/2021
Ethylbenzene	ND	50	50		µg/Kg-dry	1	6/30/2021
Hexachloroethane	ND	300	300		µg/Kg-dry	1	6/30/2021
Isopropylbenzene	ND	250	250		µg/Kg-dry	1	6/30/2021
m,p-Xylene	ND	100	100		µg/Kg-dry	1	6/30/2021
Methyl tert-butyl ether	ND	250	250		µg/Kg-dry	1	6/30/2021
Methylene chloride	ND	300	100		µg/Kg-dry	1	6/30/2021
Naphthalene	ND	330	330		µg/Kg-dry	1	6/30/2021
n-Propylbenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
o-Xylene	ND	50	50		µg/Kg-dry	1	6/30/2021
Styrene	ND	50	50		µg/Kg-dry	1	6/30/2021
Tetrachloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
Toluene	ND	100	100		µg/Kg-dry	1	6/30/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20
Lab ID: 21061951-09

Client Sample ID: PS-SB-1 (10-12)
Collection Date: 6/17/2021 10:06:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
trans-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
trans-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	6/30/2021
Trichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
Trichlorofluoromethane	ND	100	100		µg/Kg-dry	1	6/30/2021
Vinyl acetate	ND	5,000	5,000		µg/Kg-dry	1	6/30/2021
Vinyl chloride	ND	40	40		µg/Kg-dry	1	6/30/2021
Xylenes, Total	ND	150	150		µg/Kg-dry	1	6/30/2021
<i>Surr: 1,2-Dichloroethane-d4</i>	100	70-130			%REC	1	6/30/2021
<i>Surr: 4-Bromofluorobenzene</i>	96.9	70-130			%REC	1	6/30/2021
<i>Surr: Dibromofluoromethane</i>	110	70-130			%REC	1	6/30/2021
<i>Surr: Toluene-d8</i>	97.5	70-130			%REC	1	6/30/2021
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 7/13/2021		Analyst: RZM
Chromium, Hexavalent	ND	2,000	2,000		µg/Kg-dry	1	7/13/2021
MOISTURE			SW3550C				Analyst: CDG
Moisture	13	0.10	0		% of sample	1	6/25/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20
Lab ID: 21061951-10

Client Sample ID: Soil Duplicate
Collection Date: 6/17/2021 9:30:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/24/2021	Analyst: RM	
Aroclor 1016	ND	330	330		µg/Kg-dry	1	6/24/2021
Aroclor 1221	ND	330	330		µg/Kg-dry	1	6/24/2021
Aroclor 1232	ND	330	330		µg/Kg-dry	1	6/24/2021
Aroclor 1242	ND	330	330		µg/Kg-dry	1	6/24/2021
Aroclor 1248	ND	330	330		µg/Kg-dry	1	6/24/2021
Aroclor 1254	ND	330	330		µg/Kg-dry	1	6/24/2021
Aroclor 1260	ND	330	330		µg/Kg-dry	1	6/24/2021
Aroclor 1262	ND	330	330		µg/Kg-dry	1	6/24/2021
Aroclor 1268	ND	330	330		µg/Kg-dry	1	6/24/2021
Surr: Decachlorobiphenyl	40.9	40-140			%REC	1	6/24/2021
Surr: Tetrachloro-m-xylene	47.0	45-124			%REC	1	6/24/2021
MERCURY BY CVAA			SW7471B		Prep Date: 6/24/2021	Analyst: MTW	
Mercury	ND	50	50		µg/Kg-dry	1	6/24/2021
METALS BY ICP-MS			SW6020B		Prep Date: 6/25/2021	Analyst: STP	
Arsenic	5,900	2,000	2,000		µg/Kg-dry	1	6/26/2021
Barium	44,000	1,000	1,000		µg/Kg-dry	1	6/26/2021
Cadmium	230	200	200		µg/Kg-dry	1	6/26/2021
Chromium	12,000	2,000	2,000		µg/Kg-dry	1	6/26/2021
Copper	14,000	1,000	1,000		µg/Kg-dry	1	6/26/2021
Lead	32,000	10,000	10,000		µg/Kg-dry	1	6/26/2021
Selenium	ND	400	200		µg/Kg-dry	1	6/28/2021
Silver	ND	400	100		µg/Kg-dry	1	6/26/2021
Zinc	45,000	1,000	1,000		µg/Kg-dry	1	6/26/2021
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep Date: 6/24/2021	Analyst: EE	
1,2,4-Trichlorobenzene	ND	330	330		µg/Kg-dry	1	6/30/2021
1,2-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	6/30/2021
1,3-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	6/30/2021
1,4-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	6/30/2021
2,4,5-Trichlorophenol	ND	300	300		µg/Kg-dry	1	6/30/2021
2,4,6-Trichlorophenol	ND	330	330		µg/Kg-dry	1	6/30/2021
2,4-Dichlorophenol	ND	330	330		µg/Kg-dry	1	6/30/2021
2,4-Dimethylphenol	ND	330	330		µg/Kg-dry	1	6/30/2021
2,4-Dinitrophenol	ND	830	830		µg/Kg-dry	1	6/30/2021
2,4-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	6/30/2021
2,6-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	6/30/2021
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	1	6/30/2021
2-Chlorophenol	ND	330	330		µg/Kg-dry	1	6/30/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20
 Lab ID: 21061951-10

Client Sample ID: Soil Duplicate
 Collection Date: 6/17/2021 9:30:00 AM
 Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	6/30/2021
2-Methylphenol	ND	330	330		µg/Kg-dry	1	6/30/2021
2-Nitroaniline	ND	830	830		µg/Kg-dry	1	6/30/2021
2-Nitrophenol	ND	330	330		µg/Kg-dry	1	6/30/2021
3&4-Methylphenol	ND	330	330		µg/Kg-dry	1	6/30/2021
3,3'-Dichlorobenzidine	ND	2,000	2,000		µg/Kg-dry	1	6/30/2021
3-Nitroaniline	ND	830	830		µg/Kg-dry	1	6/30/2021
4,6-Dinitro-2-methylphenol	ND	830	830		µg/Kg-dry	1	6/30/2021
4-Bromophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	6/30/2021
4-Chloro-3-methylphenol	ND	280	280		µg/Kg-dry	1	6/30/2021
4-Chloroaniline	ND	330	330		µg/Kg-dry	1	6/30/2021
4-Chlorophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	6/30/2021
4-Nitroaniline	ND	830	830		µg/Kg-dry	1	6/30/2021
4-Nitrophenol	ND	830	830		µg/Kg-dry	1	6/30/2021
Acenaphthene	ND	330	330		µg/Kg-dry	1	6/30/2021
Acenaphthylene	ND	330	330		µg/Kg-dry	1	6/30/2021
Anthracene	ND	330	330		µg/Kg-dry	1	6/30/2021
Benzo(a)anthracene	ND	330	330		µg/Kg-dry	1	6/30/2021
Benzo(a)pyrene	ND	330	330		µg/Kg-dry	1	6/30/2021
Benzo(b)fluoranthene	470	330	330		µg/Kg-dry	1	6/30/2021
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	6/30/2021
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	6/30/2021
Bis(2-chloroethoxy)methane	ND	330	330		µg/Kg-dry	1	6/30/2021
Bis(2-chloroethyl)ether	ND	100	100		µg/Kg-dry	1	6/30/2021
Bis(2-chloroisopropyl)ether	ND	330	330		µg/Kg-dry	1	6/30/2021
Bis(2-ethylhexyl)phthalate	ND	330	330		µg/Kg-dry	1	6/30/2021
Butyl benzyl phthalate	ND	330	330		µg/Kg-dry	1	6/30/2021
Carbazole	ND	330	330		µg/Kg-dry	1	6/30/2021
Chrysene	ND	330	330		µg/Kg-dry	1	6/30/2021
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	6/30/2021
Dibenzofuran	ND	330	330		µg/Kg-dry	1	6/30/2021
Diethyl phthalate	ND	330	330		µg/Kg-dry	1	6/30/2021
Dimethyl phthalate	ND	330	330		µg/Kg-dry	1	6/30/2021
Di-n-butyl phthalate	ND	330	330		µg/Kg-dry	1	6/30/2021
Di-n-octyl phthalate	ND	330	330		µg/Kg-dry	1	6/30/2021
Fluoranthene	470	330	330		µg/Kg-dry	1	6/30/2021
Fluorene	ND	330	330		µg/Kg-dry	1	6/30/2021
Hexachlorobenzene	ND	330	330		µg/Kg-dry	1	6/30/2021
Hexachlorobutadiene	ND	50	50		µg/Kg-dry	1	6/30/2021
Hexachlorocyclopentadiene	ND	330	330		µg/Kg-dry	1	6/30/2021
Hexachloroethane	ND	300	300		µg/Kg-dry	1	6/30/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20
 Lab ID: 21061951-10

Client Sample ID: Soil Duplicate
 Collection Date: 6/17/2021 9:30:00 AM
 Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	ND	330	330		µg/Kg-dry	1	6/30/2021
Isophorone	ND	330	330		µg/Kg-dry	1	6/30/2021
Naphthalene	ND	330	330		µg/Kg-dry	1	6/30/2021
Nitrobenzene	ND	330	330		µg/Kg-dry	1	6/30/2021
N-Nitrosodi-n-propylamine	ND	330	330		µg/Kg-dry	1	6/30/2021
N-Nitrosodiphenylamine	ND	330	330		µg/Kg-dry	1	6/30/2021
Pentachlorophenol	ND	36	20		µg/Kg-dry	1	6/30/2021
Phenanthrene	ND	330	330		µg/Kg-dry	1	6/30/2021
Phenol	ND	330	330		µg/Kg-dry	1	6/30/2021
Pyrene	540	330	330		µg/Kg-dry	1	6/30/2021
Surr: 2,4,6-Tribromophenol	71.3	38-92			%REC	1	6/30/2021
Surr: 2-Fluorobiphenyl	77.6	44-107			%REC	1	6/30/2021
Surr: 2-Fluorophenol	62.0	37-109			%REC	1	6/30/2021
Surr: 4-Terphenyl-d14	82.8	52-123			%REC	1	6/30/2021
Surr: Nitrobenzene-d5	73.2	41-94			%REC	1	6/30/2021
Surr: Phenol-d6	71.4	28-111			%REC	1	6/30/2021

VOLATILE ORGANIC COMPOUNDS

SW8260C

Prep Date: 6/21/2021

Analyst: SJB

1,1,1,2-Tetrachloroethane	ND	100	100		µg/Kg-dry	1	6/30/2021
1,1,1-Trichloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1,2,2-Tetrachloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1,2-Trichloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1,2-Trichlorotrifluoroethane	ND	100	100		µg/Kg-dry	1	6/30/2021
1,1-Dichloroethane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,1-Dichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
1,2,3-Trichloropropane	ND	100	100		µg/Kg-dry	1	6/30/2021
1,2,4-Trichlorobenzene	ND	250	250		µg/Kg-dry	1	6/30/2021
1,2,4-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
1,2-Dibromo-3-chloropropane	ND	120	10		µg/Kg-dry	1	6/30/2021
1,2-Dibromoethane	ND	37	20		µg/Kg-dry	1	6/30/2021
1,2-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
1,2-Dichloroethane	ND	120	50		µg/Kg-dry	1	6/30/2021
1,2-Dichloropropane	ND	50	50		µg/Kg-dry	1	6/30/2021
1,3,5-Trimethylbenzene	ND	120	100		µg/Kg-dry	1	6/30/2021
1,3-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
1,4-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
2-Butanone	ND	750	750		µg/Kg-dry	1	6/30/2021
2-Hexanone	ND	2,500	2,500		µg/Kg-dry	1	6/30/2021
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	6/30/2021
4-Methyl-2-pentanone	ND	2,500	2,500		µg/Kg-dry	1	6/30/2021
Acetone	ND	1,000	1,000		µg/Kg-dry	1	6/30/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20
Lab ID: 21061951-10

Client Sample ID: Soil Duplicate
Collection Date: 6/17/2021 9:30:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Acrylonitrile	ND	120	100		µg/Kg-dry	1	6/30/2021
Benzene	ND	50	50		µg/Kg-dry	1	6/30/2021
Bromodichloromethane	ND	100	100		µg/Kg-dry	1	6/30/2021
Bromoform	ND	100	100		µg/Kg-dry	1	6/30/2021
Bromomethane	ND	200	200		µg/Kg-dry	1	6/30/2021
Carbon disulfide	ND	250	250		µg/Kg-dry	1	6/30/2021
Carbon tetrachloride	ND	50	50		µg/Kg-dry	1	6/30/2021
Chlorobenzene	ND	50	50		µg/Kg-dry	1	6/30/2021
Chloroethane	ND	250	250		µg/Kg-dry	1	6/30/2021
Chloroform	ND	50	50		µg/Kg-dry	1	6/30/2021
Chloromethane	ND	250	250		µg/Kg-dry	1	6/30/2021
cis-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
cis-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	6/30/2021
Dibromochloromethane	ND	100	100		µg/Kg-dry	1	6/30/2021
Dibromomethane	ND	250	250		µg/Kg-dry	1	6/30/2021
Dichlorodifluoromethane	ND	250	250		µg/Kg-dry	1	6/30/2021
Diethyl ether	ND	200	200		µg/Kg-dry	1	6/30/2021
Ethylbenzene	ND	50	50		µg/Kg-dry	1	6/30/2021
Hexachloroethane	ND	300	300		µg/Kg-dry	1	6/30/2021
Isopropylbenzene	ND	250	250		µg/Kg-dry	1	6/30/2021
m,p-Xylene	ND	100	100		µg/Kg-dry	1	6/30/2021
Methyl tert-butyl ether	ND	250	250		µg/Kg-dry	1	6/30/2021
Methylene chloride	ND	310	100		µg/Kg-dry	1	6/30/2021
Naphthalene	ND	330	330		µg/Kg-dry	1	6/30/2021
n-Propylbenzene	ND	100	100		µg/Kg-dry	1	6/30/2021
o-Xylene	ND	50	50		µg/Kg-dry	1	6/30/2021
Styrene	ND	50	50		µg/Kg-dry	1	6/30/2021
Tetrachloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
Toluene	ND	100	100		µg/Kg-dry	1	6/30/2021
trans-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
trans-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	6/30/2021
Trichloroethene	ND	50	50		µg/Kg-dry	1	6/30/2021
Trichlorofluoromethane	ND	100	100		µg/Kg-dry	1	6/30/2021
Vinyl acetate	ND	5,000	5,000		µg/Kg-dry	1	6/30/2021
Vinyl chloride	ND	40	40		µg/Kg-dry	1	6/30/2021
Xylenes, Total	ND	150	150		µg/Kg-dry	1	6/30/2021
Surr: 1,2-Dichloroethane-d4	101	70-130			%REC	1	6/30/2021
Surr: 4-Bromofluorobenzene	99.2	70-130			%REC	1	6/30/2021
Surr: Dibromofluoromethane	103	70-130			%REC	1	6/30/2021
Surr: Toluene-d8	96.3	70-130			%REC	1	6/30/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Jul-21

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20
Lab ID: 21061951-10

Client Sample ID: Soil Duplicate
Collection Date: 6/17/2021 9:30:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
CHROMIUM, HEXAVALENT			SW7196A				Prep Date: 7/13/2021 Analyst: RZM
Chromium, Hexavalent	ND	2,000	2,000		µg/Kg-dry	1	7/13/2021
MOISTURE			SW3550C				Analyst: CDG
Moisture	9.4	0.10	0		% of sample	1	6/25/2021

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: **179152** Instrument ID **GC14** Method: **SW8082**

MBLK		Sample ID: PBLKS1-179152-179152			Units: µg/Kg		Analysis Date: 6/24/2021 06:33 PM			
Client ID:		Run ID: GC14_210624A			SeqNo: 7525217		Prep Date: 6/24/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	67								
Aroclor 1221	ND	67								
Aroclor 1232	ND	67								
Aroclor 1242	ND	67								
Aroclor 1248	ND	67								
Aroclor 1254	ND	67								
Aroclor 1260	ND	67								
Aroclor 1262	ND	67								
Aroclor 1268	ND	67								
<i>Surr: Decachlorobiphenyl</i>	33.28	0	33.3	0	100	40-140	0			
<i>Surr: Tetrachloro-m-xylene</i>	30.95	0	33.3	0	92.9	45-124	0			

LCS		Sample ID: PLCSS1-179152-179152			Units: µg/Kg		Analysis Date: 6/24/2021 06:47 PM			
Client ID:		Run ID: GC14_210624A			SeqNo: 7525218		Prep Date: 6/24/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	845.4	67	833	0	101	50-130	0			
Aroclor 1260	803.7	67	833	0	96.5	50-130	0			
<i>Surr: Decachlorobiphenyl</i>	33.02	0	33.3	0	99.1	40-140	0			
<i>Surr: Tetrachloro-m-xylene</i>	32.12	0	33.3	0	96.4	45-124	0			

MS		Sample ID: 21061951-05B MS			Units: µg/Kg		Analysis Date: 6/24/2021 07:01 PM			
Client ID: PS-SB-1 (1-3)		Run ID: GC14_210624A			SeqNo: 7525219		Prep Date: 6/24/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	854	66	830.2	0	103	40-140	0			
Aroclor 1260	764.7	66	830.2	0	92.1	40-140	0			
<i>Surr: Decachlorobiphenyl</i>	32.32	0	33.19	0	97.4	40-140	0			
<i>Surr: Tetrachloro-m-xylene</i>	31.16	0	33.19	0	93.9	45-124	0			

MSD		Sample ID: 21061951-05B MSD			Units: µg/Kg		Analysis Date: 6/24/2021 07:15 PM			
Client ID: PS-SB-1 (1-3)		Run ID: GC14_210624A			SeqNo: 7525220		Prep Date: 6/24/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	788.7	67	831.8	0	94.8	40-140	854	7.95	50	
Aroclor 1260	714.5	67	831.8	0	85.9	40-140	764.7	6.78	50	
<i>Surr: Decachlorobiphenyl</i>	27.03	0	33.25	0	81.3	40-140	32.32	17.8	50	
<i>Surr: Tetrachloro-m-xylene</i>	25.63	0	33.25	0	77.1	45-124	31.16	19.5	50	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: **179152** Instrument ID **GC14** Method: **SW8082**

The following samples were analyzed in this batch:

21061951-05B	21061951-10B
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Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: **179105** Instrument ID **HG4** Method: **SW7471B**

MBLK		Sample ID: MBLK-179105-179105				Units: mg/Kg		Analysis Date: 6/24/2021 03:29 PM			
Client ID:		Run ID: HG4_210624A				SeqNo: 7521995		Prep Date: 6/24/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	ND	0.020									

LCS		Sample ID: LCS-179105-179105				Units: mg/Kg		Analysis Date: 6/24/2021 03:31 PM			
Client ID:		Run ID: HG4_210624A				SeqNo: 7521996		Prep Date: 6/24/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	0.175	0.020	0.1665		0	105	80-120	0			

MS		Sample ID: 21061951-05BMS				Units: mg/Kg		Analysis Date: 6/24/2021 03:37 PM			
Client ID: PS-SB-1 (1-3)		Run ID: HG4_210624A				SeqNo: 7521999		Prep Date: 6/24/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	0.2061	0.019	0.1554	0.03922	107	75-125		0			

MSD		Sample ID: 21061951-05BMSD				Units: mg/Kg		Analysis Date: 6/24/2021 03:39 PM			
Client ID: PS-SB-1 (1-3)		Run ID: HG4_210624A				SeqNo: 7522000		Prep Date: 6/24/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	0.2079	0.019	0.1556	0.03922	108	75-125	0.2061	0.908	35		

The following samples were analyzed in this batch: 21061951-05B 21061951-06B 21061951-10B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: **179151** Instrument ID **HG4** Method: **SW7470A**

MBLK		Sample ID: MBLK-179151-179151				Units: mg/L		Analysis Date: 6/24/2021 02:29 PM			
Client ID:		Run ID: HG4_210624A				SeqNo: 7521961		Prep Date: 6/24/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury ND 0.00020

LCS		Sample ID: LCS-179151-179151				Units: mg/L		Analysis Date: 6/24/2021 02:30 PM			
Client ID:		Run ID: HG4_210624A				SeqNo: 7521962		Prep Date: 6/24/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.00216 0.00020 0.002 0 108 80-120 0

MS		Sample ID: 21061936-01BMS				Units: mg/L		Analysis Date: 6/24/2021 02:34 PM			
Client ID:		Run ID: HG4_210624A				SeqNo: 7521964		Prep Date: 6/24/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.00237 0.00020 0.002 0.0003495 101 75-125 0

MSD		Sample ID: 21061936-01BMSD				Units: mg/L		Analysis Date: 6/24/2021 02:36 PM			
Client ID:		Run ID: HG4_210624A				SeqNo: 7521965		Prep Date: 6/24/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.002385 0.00020 0.002 0.0003495 102 75-125 0.00237 0.631 20

The following samples were analyzed in this batch:

21061951-03C

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: **179217** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK		Sample ID: MBLK-179217-179217				Units: mg/Kg		Analysis Date: 6/26/2021 06:08 AM		
Client ID:		Run ID: ICPMS3_210625B		SeqNo: 7530061		Prep Date: 6/25/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	ND	0.10								
Chromium	ND	0.25								
Copper	ND	0.25								
Lead	ND	0.25								
Silver	ND	0.25								
Zinc	ND	0.50								

MBLK		Sample ID: MBLK-179217-179217				Units: mg/Kg		Analysis Date: 6/28/2021 07:33 PM		
Client ID:		Run ID: ICPMS3_210628B		SeqNo: 7534406		Prep Date: 6/25/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	ND	0.25								

LCS		Sample ID: LCS-179217-179217				Units: mg/Kg		Analysis Date: 6/26/2021 06:10 AM		
Client ID:		Run ID: ICPMS3_210625B		SeqNo: 7530062		Prep Date: 6/25/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.68	0.25	5	0	93.6	80-120	0			
Barium	5.153	0.25	5	0	103	80-120	0			
Cadmium	4.979	0.10	5	0	99.6	80-120	0			
Chromium	4.627	0.25	5	0	92.5	80-120	0			
Copper	4.562	0.25	5	0	91.2	80-120	0			
Lead	4.754	0.25	5	0	95.1	80-120	0			
Selenium	5.022	0.25	5	0	100	80-120	0			
Silver	4.791	0.25	5	0	95.8	80-120	0			
Zinc	4.59	0.50	5	0	91.8	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: 179217 Instrument ID ICPMS3 Method: SW6020B

MS				Sample ID: 21061951-05BMS		Units: mg/Kg		Analysis Date: 6/26/2021 06:17 AM		
Client ID: PS-SB-1 (1-3)			Run ID: ICPMS3_210625B			SeqNo: 7530066		Prep Date: 6/25/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	11.5	0.39	7.899	5.567	75.1	75-125	0			
Barium	47.78	0.39	7.899	37.5	130	75-125	0			SO
Cadmium	6.723	0.16	7.899	0.2087	82.5	75-125	0			
Chromium	16.38	0.39	7.899	8.553	99	75-125	0			
Copper	17.32	0.39	7.899	12.12	65.9	75-125	0			S
Lead	34.11	0.39	7.899	28.6	69.7	75-125	0			S
Selenium	7.295	0.39	7.899	0.4332	86.9	75-125	0			
Silver	6.216	0.39	7.899	0.02747	78.4	75-125	0			
Zinc	44.46	0.79	7.899	39.81	58.9	75-125	0			SO

MSD				Sample ID: 21061951-05BMSD		Units: mg/Kg		Analysis Date: 6/26/2021 06:19 AM		
Client ID: PS-SB-1 (1-3)			Run ID: ICPMS3_210625B			SeqNo: 7530067		Prep Date: 6/25/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.15	0.37	7.474	5.567	88.1	75-125	11.5	5.52	20	
Barium	53.02	0.37	7.474	37.5	208	75-125	47.78	10.4	20	SO
Cadmium	6.203	0.15	7.474	0.2087	80.2	75-125	6.723	8.05	20	
Chromium	15.9	0.37	7.474	8.553	98.3	75-125	16.38	2.95	20	
Copper	19.63	0.37	7.474	12.12	101	75-125	17.32	12.5	20	
Lead	34.84	0.37	7.474	28.6	83.4	75-125	34.11	2.12	20	
Selenium	6.701	0.37	7.474	0.4332	83.9	75-125	7.295	8.49	20	
Silver	5.589	0.37	7.474	0.02747	74.4	75-125	6.216	10.6	20	S
Zinc	48.64	0.75	7.474	39.81	118	75-125	44.46	8.99	20	O

The following samples were analyzed in this batch:

21061951-05B	21061951-06B	21061951-07B
21061951-08B	21061951-09B	21061951-10B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: **179284** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK		Sample ID: MBLK-179284-179284				Units: mg/L		Analysis Date: 6/29/2021 03:08 AM		
Client ID:		Run ID: ICPMS3_210628A		SeqNo: 7535220		Prep Date: 6/26/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.0050								
Barium	ND	0.0050								
Cadmium	ND	0.0020								
Chromium	ND	0.0050								
Copper	ND	0.0050								
Lead	ND	0.0050								
Selenium	0.0006523	0.0050								J
Silver	ND	0.0050								
Zinc	0.004936	0.010								J

LCS		Sample ID: LCS-179284-179284				Units: mg/L		Analysis Date: 6/29/2021 03:10 AM		
Client ID:		Run ID: ICPMS3_210628A		SeqNo: 7535221		Prep Date: 6/26/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1013	0.0050	0.1	0	101	80-120	0			
Barium	0.09998	0.0050	0.1	0	100	80-120	0			
Cadmium	0.1028	0.0020	0.1	0	103	80-120	0			
Chromium	0.1034	0.0050	0.1	0	103	80-120	0			
Copper	0.1025	0.0050	0.1	0	103	80-120	0			
Lead	0.09948	0.0050	0.1	0	99.5	80-120	0			
Selenium	0.1031	0.0050	0.1	0	103	80-120	0			
Silver	0.09774	0.0050	0.1	0	97.7	80-120	0			
Zinc	0.1097	0.010	0.1	0	110	80-120	0			

MS		Sample ID: 21062227-01BMS				Units: mg/L		Analysis Date: 6/29/2021 03:53 AM		
Client ID:		Run ID: ICPMS3_210628A		SeqNo: 7535245		Prep Date: 6/26/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1086	0.0050	0.1	0.0005885	108	75-125	0			
Barium	0.1391	0.0050	0.1	0.03511	104	75-125	0			
Cadmium	0.1056	0.0020	0.1	0.0000352	106	75-125	0			
Chromium	0.1196	0.0050	0.1	0.01662	103	75-125	0			
Copper	0.1495	0.0050	0.1	0.05248	97	75-125	0			
Lead	0.1056	0.0050	0.1	0.00308	102	75-125	0			
Selenium	0.1133	0.0050	0.1	0.0004664	113	75-125	0			
Silver	0.09854	0.0050	0.1	0.0000132	98.5	75-125	0			
Zinc	0.206	0.010	0.1	0.1019	104	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: **179284** Instrument ID **ICPMS3** Method: **SW6020B**

MSD				Sample ID: 21062227-01BMSD		Units: mg/L		Analysis Date: 6/29/2021 03:55 AM		
Client ID:			Run ID: ICPMS3_210628A			SeqNo: 7535246		Prep Date: 6/26/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1115	0.0050	0.1	0.0005885	111	75-125	0.1086	2.66	20	
Barium	0.1423	0.0050	0.1	0.03511	107	75-125	0.1391	2.24	20	
Cadmium	0.1074	0.0020	0.1	0.0000352	107	75-125	0.1056	1.68	20	
Chromium	0.1215	0.0050	0.1	0.01662	105	75-125	0.1196	1.61	20	
Copper	0.1494	0.0050	0.1	0.05248	96.9	75-125	0.1495	0.0515	20	
Lead	0.1072	0.0050	0.1	0.00308	104	75-125	0.1056	1.56	20	
Selenium	0.1164	0.0050	0.1	0.0004664	116	75-125	0.1133	2.68	20	
Silver	0.1002	0.0050	0.1	0.0000132	100	75-125	0.09854	1.68	20	
Zinc	0.2026	0.010	0.1	0.1019	101	75-125	0.206	1.68	20	

The following samples were analyzed in this batch:

21061951-03C

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: 179124 Instrument ID SVMS8 Method: SW846 8270D

MBLK		Sample ID: SBLKW1-179124-179124			Units: µg/L		Analysis Date: 6/25/2021 11:19 AM			
Client ID:		Run ID: SVMS8_210625A			SeqNo: 7530194		Prep Date: 6/24/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	ND	5.0								
2,4,5-Trichlorophenol	ND	5.0								
2,4,6-Trichlorophenol	ND	5.0								
2,4-Dichlorophenol	ND	5.0								
2,4-Dimethylphenol	ND	5.0								
2,4-Dinitrophenol	ND	5.0								
2,4-Dinitrotoluene	ND	5.0								
2,6-Dinitrotoluene	ND	5.0								
2-Chloronaphthalene	ND	5.0								
2-Chlorophenol	ND	5.0								
2-Methylnaphthalene	ND	5.0								
2-Methylphenol	ND	5.0								
2-Nitroaniline	ND	5.0								
2-Nitrophenol	ND	5.0								
3&4-Methylphenol	ND	5.0								
3,3'-Dichlorobenzidine	ND	5.0								
3-Nitroaniline	ND	5.0								
4,6-Dinitro-2-methylphenol	ND	5.0								
4-Bromophenyl phenyl ether	ND	5.0								
4-Chloro-3-methylphenol	ND	5.0								
4-Chloroaniline	ND	5.0								
4-Chlorophenyl phenyl ether	ND	5.0								
4-Nitroaniline	ND	5.0								
4-Nitrophenol	ND	5.0								
Acenaphthene	ND	5.0								
Acenaphthylene	ND	5.0								
Acetophenone	ND	1.0								
Anthracene	ND	5.0								
Atrazine	ND	1.0								
Benzaldehyde	ND	1.0								
Benzo(a)anthracene	ND	5.0								
Benzo(a)pyrene	ND	5.0								
Benzo(b)fluoranthene	ND	5.0								
Benzo(g,h,i)perylene	ND	5.0								
Benzo(k)fluoranthene	ND	5.0								
Bis(2-chloroethoxy)methane	ND	5.0								
Bis(2-chloroethyl)ether	ND	5.0								
Bis(2-chloroisopropyl)ether	ND	5.0								
Bis(2-ethylhexyl)phthalate	ND	5.0								
Butyl benzyl phthalate	ND	5.0								
Caprolactam	ND	10								
Carbazole	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: 179124	Instrument ID SVMS8	Method: SW846 8270D						
Chrysene	ND	5.0						
Dibenzo(a,h)anthracene	ND	5.0						
Dibenzofuran	ND	5.0						
Diethyl phthalate	ND	5.0						
Dimethyl phthalate	ND	5.0						
Di-n-butyl phthalate	ND	5.0						
Di-n-octyl phthalate	ND	5.0						
Fluoranthene	ND	5.0						
Fluorene	ND	5.0						
Hexachlorobenzene	ND	5.0						
Hexachlorobutadiene	ND	5.0						
Hexachlorocyclopentadiene	ND	5.0						
Hexachloroethane	ND	5.0						
Indeno(1,2,3-cd)pyrene	ND	5.0						
Isophorone	ND	5.0						
Naphthalene	ND	5.0						
Nitrobenzene	ND	5.0						
N-Nitrosodi-n-propylamine	ND	5.0						
N-Nitrosodiphenylamine	ND	5.0						
Pentachlorophenol	ND	5.0						
Phenanthrene	ND	5.0						
Phenol	ND	5.0						
Pyrene	ND	5.0						
<i>Surr: 2,4,6-Tribromophenol</i>	33.21	0	50	0	66.4	27-83	0	
<i>Surr: 2-Fluorobiphenyl</i>	33.46	0	50	0	66.9	26-79	0	
<i>Surr: 2-Fluorophenol</i>	21.6	0	50	0	43.2	13-56	0	
<i>Surr: 4-Terphenyl-d14</i>	37.78	0	50	0	75.6	43-106	0	
<i>Surr: Nitrobenzene-d5</i>	33.16	0	50	0	66.3	29-80	0	
<i>Surr: Phenol-d6</i>	13.64	0	50	0	27.3	10-35	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: 179124 Instrument ID SVMS8 Method: SW846 8270D

LCS		Sample ID: SLCSW1-179124-179124				Units: µg/L		Analysis Date: 6/25/2021 11:40 AM		
Client ID:		Run ID: SVMS8_210625A		SeqNo: 7530195		Prep Date: 6/24/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	15.78	5.0	20	0	78.9	40-85	0			
2,4,5-Trichlorophenol	15.14	5.0	20	0	75.7	47-84	0			
2,4,6-Trichlorophenol	15.65	5.0	20	0	78.2	45-83	0			
2,4-Dichlorophenol	15.69	5.0	20	0	78.4	39-84	0			
2,4-Dimethylphenol	14.38	5.0	20	0	71.9	34-79	0			
2,4-Dinitrophenol	20.32	5.0	20	0	102	11-117	0			
2,4-Dinitrotoluene	16.75	5.0	20	0	83.8	54-93	0			
2,6-Dinitrotoluene	16.29	5.0	20	0	81.4	51-90	0			
2-Chloronaphthalene	15.49	5.0	20	0	77.4	37-84	0			
2-Chlorophenol	15.91	5.0	20	0	79.6	38-83	0			
2-Methylnaphthalene	15.69	5.0	20	0	78.4	33-85	0			
2-Methylphenol	13.82	5.0	20	0	69.1	29-76	0			
2-Nitroaniline	16.54	5.0	20	0	82.7	45-94	0			
2-Nitrophenol	15.64	5.0	20	0	78.2	41-84	0			
3&4-Methylphenol	12.88	5.0	20	0	64.4	24-70	0			
3,3'-Dichlorobenzidine	17.03	5.0	20	0	85.2	39-96	0			
3-Nitroaniline	16.37	5.0	20	0	81.8	50-93	0			
4,6-Dinitro-2-methylphenol	16.99	5.0	20	0	85	23-116	0			
4-Bromophenyl phenyl ether	16.66	5.0	20	0	83.3	51-93	0			
4-Chloro-3-methylphenol	16.61	5.0	20	0	83	41-86	0			
4-Chloroaniline	15.27	5.0	20	0	76.4	44-92	0			
4-Chlorophenyl phenyl ether	15.85	5.0	20	0	79.2	49-89	0			
4-Nitroaniline	16.73	5.0	20	0	83.6	47-98	0			
4-Nitrophenol	7.98	5.0	20	0	39.9	10-43	0			
Acenaphthene	16.21	5.0	20	0	81	42-85	0			
Acenaphthylene	14.94	5.0	20	0	74.7	42-88	0			
Acetophenone	15.74	1.0	20	0	78.7	39-91	0			
Anthracene	16.73	5.0	20	0	83.6	55-93	0			
Atrazine	17.63	1.0	20	0	88.2	52-100	0			
Benzaldehyde	15.73	1.0	20	0	78.6	42-110	0			
Benzo(a)anthracene	16.99	5.0	20	0	85	56-91	0			
Benzo(a)pyrene	17.16	5.0	20	0	85.8	55-96	0			
Benzo(b)fluoranthene	17.57	5.0	20	0	87.8	55-99	0			
Benzo(g,h,i)perylene	16.59	5.0	20	0	83	44-102	0			
Benzo(k)fluoranthene	16.34	5.0	20	0	81.7	57-96	0			
Bis(2-chloroethoxy)methane	15.67	5.0	20	0	78.4	39-88	0			
Bis(2-chloroethyl)ether	14.97	5.0	20	0	74.8	36-91	0			
Bis(2-chloroisopropyl)ether	15.65	5.0	20	0	78.2	33-83	0			
Bis(2-ethylhexyl)phthalate	18.28	5.0	20	0	91.4	39-113	0			
Butyl benzyl phthalate	17.4	5.0	20	0	87	49-97	0			
Carbazole	16.92	5.0	20	0	84.6	59-92	0			
Chrysene	17.03	5.0	20	0	85.2	55-92	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: 179124	Instrument ID SVMS8	Method: SW846 8270D						
Dibenzo(a,h)anthracene	16.89	5.0	20	0	84.4	47-100	0	
Dibenzofuran	16.17	5.0	20	0	80.8	44-89	0	
Diethyl phthalate	16.95	5.0	20	0	84.8	54-95	0	
Dimethyl phthalate	16.77	5.0	20	0	83.8	51-92	0	
Di-n-butyl phthalate	17.24	5.0	20	0	86.2	57-98	0	
Di-n-octyl phthalate	18.53	5.0	20	0	92.6	36-117	0	
Fluoranthene	16.87	5.0	20	0	84.4	59-93	0	
Fluorene	16.45	5.0	20	0	82.2	47-91	0	
Hexachlorobenzene	16.64	5.0	20	0	83.2	53-89	0	
Hexachlorobutadiene	15.45	5.0	20	0	77.2	11-83	0	
Hexachlorocyclopentadiene	12.47	5.0	20	0	62.4	14-75	0	
Hexachloroethane	14.77	5.0	20	0	73.8	10-85	0	
Indeno(1,2,3-cd)pyrene	16.88	5.0	20	0	84.4	46-102	0	
Isophorone	15.34	5.0	20	0	76.7	42-90	0	
Naphthalene	15.17	5.0	20	0	75.8	26-78	0	
Nitrobenzene	15.36	5.0	20	0	76.8	38-86	0	
N-Nitrosodi-n-propylamine	16.23	5.0	20	0	81.2	39-95	0	
N-Nitrosodiphenylamine	16.05	5.0	20	0	80.2	47-94	0	
Pentachlorophenol	12.96	5.0	20	0	64.8	37-94	0	
Phenanthrene	16.61	5.0	20	0	83	51-90	0	
Phenol	6.57	5.0	20	0	32.8	10-40	0	
Pyrene	16.88	5.0	20	0	84.4	48-98	0	
<i>Surr: 2,4,6-Tribromophenol</i>	39.88	0	50	0	79.8	27-83	0	
<i>Surr: 2-Fluorobiphenyl</i>	37.76	0	50	0	75.5	26-79	0	
<i>Surr: 2-Fluorophenol</i>	25.77	0	50	0	51.5	13-56	0	
<i>Surr: 4-Terphenyl-d14</i>	42.15	0	50	0	84.3	43-106	0	
<i>Surr: Nitrobenzene-d5</i>	37.48	0	50	0	75	29-80	0	
<i>Surr: Phenol-d6</i>	17.14	0	50	0	34.3	10-35	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: 179124 Instrument ID SVMS8 Method: SW846 8270D

MS		Sample ID: 21061793-02A MS				Units: µg/L		Analysis Date: 6/25/2021 02:34 PM		
Client ID:		Run ID: SVMS8_210625A		SeqNo: 7530196		Prep Date: 6/24/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	308.4	100	400	0	77.1	40-85	0			
2,4,5-Trichlorophenol	305.2	100	400	0	76.3	47-84	0			
2,4,6-Trichlorophenol	315	100	400	0	78.8	45-83	0			
2,4-Dichlorophenol	313	100	400	0	78.2	39-84	0			
2,4-Dimethylphenol	262.8	100	400	0	65.7	34-79	0			
2,4-Dinitrophenol	475.2	100	400	0	119	11-117	0			S
2,4-Dinitrotoluene	335.6	100	400	0	83.9	54-93	0			
2,6-Dinitrotoluene	334.2	100	400	0	83.6	51-90	0			
2-Chloronaphthalene	316	100	400	0	79	37-84	0			
2-Chlorophenol	303.4	100	400	0	75.8	38-83	0			
2-Methylnaphthalene	308	100	400	0	77	33-85	0			
2-Methylphenol	252.4	100	400	0	63.1	29-76	0			
2-Nitroaniline	330.2	100	400	0	82.6	45-94	0			
2-Nitrophenol	316.2	100	400	0	79	41-84	0			
3&4-Methylphenol	257	100	400	10.2	61.7	24-70	0			
3,3'-Dichlorobenzidine	321	100	400	0	80.2	39-96	0			
3-Nitroaniline	277.6	100	400	0	69.4	50-93	0			
4,6-Dinitro-2-methylphenol	375.4	100	400	0	93.8	23-116	0			
4-Bromophenyl phenyl ether	338	100	400	0	84.5	51-93	0			
4-Chloro-3-methylphenol	369.8	100	400	0	92.4	41-86	0			S
4-Chloroaniline	259	100	400	0	64.8	44-92	0			
4-Chlorophenyl phenyl ether	326.6	100	400	0	81.6	49-89	0			
4-Nitroaniline	309	100	400	0	77.2	47-98	0			
4-Nitrophenol	152.8	100	400	0	38.2	10-43	0			
Acenaphthene	325	100	400	0	81.2	42-85	0			
Acenaphthylene	297.8	100	400	0	74.4	42-88	0			
Acetophenone	312.2	20	400	0	78	39-91	0			
Anthracene	338.2	100	400	0	84.6	55-93	0			
Atrazine	345.8	20	400	0	86.4	52-100	0			
Benzaldehyde	272.2	20	400	0	68	42-110	0			
Benzo(a)anthracene	342.4	100	400	0	85.6	56-91	0			
Benzo(a)pyrene	340.2	100	400	0	85	55-96	0			
Benzo(b)fluoranthene	341.2	100	400	0	85.3	55-99	0			
Benzo(g,h,i)perylene	359.2	100	400	0	89.8	44-102	0			
Benzo(k)fluoranthene	324.2	100	400	0	81	57-96	0			
Bis(2-chloroethoxy)methane	312.8	100	400	0	78.2	39-88	0			
Bis(2-chloroethyl)ether	311	100	400	0	77.8	36-91	0			
Bis(2-chloroisopropyl)ether	304.4	100	400	0	76.1	33-83	0			
Bis(2-ethylhexyl)phthalate	375	100	400	0	93.8	39-113	0			
Butyl benzyl phthalate	352.2	100	400	0	88	49-97	0			
Carbazole	328.8	100	400	0	82.2	59-92	0			
Chrysene	341.2	100	400	0	85.3	55-92	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: 179124	Instrument ID SVMS8	Method: SW846 8270D						
Dibenzo(a,h)anthracene	363.8	100	400	0	91	47-100	0	
Dibenzofuran	319.8	100	400	0	80	44-89	0	
Diethyl phthalate	342.6	100	400	0	85.6	54-95	0	
Dimethyl phthalate	336.2	100	400	0	84	51-92	0	
Di-n-butyl phthalate	356.4	100	400	0	89.1	57-98	0	
Di-n-octyl phthalate	346	100	400	0	86.5	36-117	0	
Fluoranthene	333.2	100	400	0	83.3	59-93	0	
Fluorene	328.6	100	400	0	82.2	47-91	0	
Hexachlorobenzene	337.6	100	400	0	84.4	53-89	0	
Hexachlorobutadiene	309.8	100	400	0	77.4	11-83	0	
Hexachlorocyclopentadiene	253.6	100	400	0	63.4	14-75	0	
Hexachloroethane	285.8	100	400	0	71.4	10-85	0	
Indeno(1,2,3-cd)pyrene	364.4	100	400	0	91.1	46-102	0	
Isophorone	304.4	100	400	0	76.1	42-90	0	
Naphthalene	299.4	100	400	0	74.8	26-78	0	
Nitrobenzene	307.2	100	400	0	76.8	38-86	0	
N-Nitrosodi-n-propylamine	321.2	100	400	0	80.3	39-95	0	
N-Nitrosodiphenylamine	331.2	100	400	0	82.8	47-94	0	
Pentachlorophenol	305.8	100	400	0	76.4	37-94	0	
Phenanthrene	333.4	100	400	0	83.4	51-90	0	
Phenol	128.2	100	400	0	32	10-40	0	
Pyrene	284.4	100	400	0	71.1	48-98	0	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>844.4</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>84.4</i>	<i>27-83</i>	<i>0</i>	<i>S</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>778.2</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>77.8</i>	<i>26-79</i>	<i>0</i>	
<i>Surr: 2-Fluorophenol</i>	<i>473.4</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>47.3</i>	<i>13-56</i>	<i>0</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>618.8</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>61.9</i>	<i>43-106</i>	<i>0</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>763.8</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>76.4</i>	<i>29-80</i>	<i>0</i>	
<i>Surr: Phenol-d6</i>	<i>299.6</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>30</i>	<i>10-35</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: 179124 Instrument ID SVMS8 Method: SW846 8270D

MSD				Sample ID: 21061793-02A MSD		Units: µg/L		Analysis Date: 6/25/2021 03:17 PM		
Client ID:		Run ID: SVMS8_210625A		SeqNo: 7530197		Prep Date: 6/24/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	257.6	100	400	0	64.4	40-85	308.4	18	30	
2,4,5-Trichlorophenol	294	100	400	0	73.5	47-84	305.2	3.74	30	
2,4,6-Trichlorophenol	297.4	100	400	0	74.4	45-83	315	5.75	30	
2,4-Dichlorophenol	286.8	100	400	0	71.7	39-84	313	8.74	30	
2,4-Dimethylphenol	243.8	100	400	0	61	34-79	262.8	7.5	30	
2,4-Dinitrophenol	491	100	400	0	123	11-117	475.2	3.27	30	S
2,4-Dinitrotoluene	335	100	400	0	83.8	54-93	335.6	0.179	30	
2,6-Dinitrotoluene	320	100	400	0	80	51-90	334.2	4.34	30	
2-Chloronaphthalene	256.2	100	400	0	64	37-84	316	20.9	30	
2-Chlorophenol	290	100	400	0	72.5	38-83	303.4	4.52	30	
2-Methylnaphthalene	220.8	100	400	0	55.2	33-85	308	33	30	R
2-Methylphenol	251.4	100	400	0	62.8	29-76	252.4	0.397	30	
2-Nitroaniline	316.6	100	400	0	79.2	45-94	330.2	4.21	30	
2-Nitrophenol	291.6	100	400	0	72.9	41-84	316.2	8.09	30	
3&4-Methylphenol	246.8	100	400	10.2	59.2	24-70	257	4.05	30	
3,3'-Dichlorobenzidine	306.4	100	400	0	76.6	39-96	321	4.65	30	
3-Nitroaniline	283.2	100	400	0	70.8	50-93	277.6	2	30	
4,6-Dinitro-2-methylphenol	358	100	400	0	89.5	23-116	375.4	4.75	30	
4-Bromophenyl phenyl ether	322.8	100	400	0	80.7	51-93	338	4.6	30	
4-Chloro-3-methylphenol	323	100	400	0	80.8	41-86	369.8	13.5	30	
4-Chloroaniline	250.4	100	400	0	62.6	44-92	259	3.38	30	
4-Chlorophenyl phenyl ether	306.2	100	400	0	76.6	49-89	326.6	6.45	30	
4-Nitroaniline	284	100	400	0	71	47-98	309	8.43	30	
4-Nitrophenol	164.6	100	400	0	41.2	10-43	152.8	7.44	30	
Acenaphthene	288.4	100	400	0	72.1	42-85	325	11.9	30	
Acenaphthylene	267.6	100	400	0	66.9	42-88	297.8	10.7	30	
Acetophenone	290.4	20	400	0	72.6	39-91	312.2	7.24	30	
Anthracene	319.2	100	400	0	79.8	55-93	338.2	5.78	30	
Atrazine	339	20	400	0	84.8	52-100	345.8	1.99	30	
Benzaldehyde	218.4	20	400	0	54.6	42-110	272.2	21.9	30	
Benzo(a)anthracene	334.8	100	400	0	83.7	56-91	342.4	2.24	30	
Benzo(a)pyrene	332.2	100	400	0	83	55-96	340.2	2.38	30	
Benzo(b)fluoranthene	327.8	100	400	0	82	55-99	341.2	4.01	30	
Benzo(g,h,i)perylene	355.6	100	400	0	88.9	44-102	359.2	1.01	30	
Benzo(k)fluoranthene	317	100	400	0	79.2	57-96	324.2	2.25	30	
Bis(2-chloroethoxy)methane	288	100	400	0	72	39-88	312.8	8.26	30	
Bis(2-chloroethyl)ether	297.2	100	400	0	74.3	36-91	311	4.54	30	
Bis(2-chloroisopropyl)ether	261	100	400	0	65.2	33-83	304.4	15.4	30	
Bis(2-ethylhexyl)phthalate	369.2	100	400	0	92.3	39-113	375	1.56	30	
Butyl benzyl phthalate	347.8	100	400	0	87	49-97	352.2	1.26	30	
Carbazole	320.8	100	400	0	80.2	59-92	328.8	2.46	30	
Chrysene	333.4	100	400	0	83.4	55-92	341.2	2.31	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: 179124	Instrument ID SVMS8	Method: SW846 8270D								
Dibenzo(a,h)anthracene	356.2	100	400	0	89	47-100	363.8	2.11	30	
Dibenzofuran	292	100	400	0	73	44-89	319.8	9.09	30	
Diethyl phthalate	334.2	100	400	0	83.6	54-95	342.6	2.48	30	
Dimethyl phthalate	321	100	400	0	80.2	51-92	336.2	4.63	30	
Di-n-butyl phthalate	345.4	100	400	0	86.4	57-98	356.4	3.13	30	
Di-n-octyl phthalate	352.6	100	400	0	88.2	36-117	346	1.89	30	
Fluoranthene	325.8	100	400	0	81.4	59-93	333.2	2.25	30	
Fluorene	308.4	100	400	0	77.1	47-91	328.6	6.34	30	
Hexachlorobenzene	324	100	400	0	81	53-89	337.6	4.11	30	
Hexachlorobutadiene	132.4	100	400	0	33.1	11-83	309.8	80.2	30	R
Hexachlorocyclopentadiene	134	100	400	0	33.5	14-75	253.6	61.7	30	R
Hexachloroethane	123.8	100	400	0	31	10-85	285.8	79.1	30	R
Indeno(1,2,3-cd)pyrene	356.2	100	400	0	89	46-102	364.4	2.28	30	
Isophorone	282	100	400	0	70.5	42-90	304.4	7.64	30	
Naphthalene	198.2	100	400	0	49.6	26-78	299.4	40.7	30	R
Nitrobenzene	272.6	100	400	0	68.2	38-86	307.2	11.9	30	
N-Nitrosodi-n-propylamine	301.4	100	400	0	75.4	39-95	321.2	6.36	30	
N-Nitrosodiphenylamine	312.4	100	400	0	78.1	47-94	331.2	5.84	30	
Pentachlorophenol	323.4	100	400	0	80.8	37-94	305.8	5.59	30	
Phenanthrene	316.2	100	400	0	79	51-90	333.4	5.3	30	
Phenol	122.4	100	400	0	30.6	10-40	128.2	4.63	30	
Pyrene	321.2	100	400	0	80.3	48-98	284.4	12.2	30	
<i>Surr: 2,4,6-Tribromophenol</i>	790.2	0	1000	0	79	27-83	844.4	6.63	40	
<i>Surr: 2-Fluorobiphenyl</i>	673	0	1000	0	67.3	26-79	778.2	14.5	40	
<i>Surr: 2-Fluorophenol</i>	462.8	0	1000	0	46.3	13-56	473.4	2.26	40	
<i>Surr: 4-Terphenyl-d14</i>	824.6	0	1000	0	82.5	43-106	618.8	28.5	40	
<i>Surr: Nitrobenzene-d5</i>	675	0	1000	0	67.5	29-80	763.8	12.3	40	
<i>Surr: Phenol-d6</i>	302.2	0	1000	0	30.2	10-35	299.6	0.864	40	

The following samples were analyzed in this batch:

21061951-03B

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: 179138 Instrument ID SVMS8 Method: SW846 8270D

MBLK		Sample ID: SBLKS1-179138-179138			Units: µg/Kg		Analysis Date: 6/25/2021 12:02 PM			
Client ID:		Run ID: SVMS8_210625A			SeqNo: 7525407		Prep Date: 6/24/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	ND	33								
1,2-Dichlorobenzene	ND	33								
1,3-Dichlorobenzene	ND	33								
1,4-Dichlorobenzene	ND	33								
2,4,5-Trichlorophenol	ND	33								
2,4,6-Trichlorophenol	ND	33								
2,4-Dichlorophenol	ND	33								
2,4-Dimethylphenol	ND	33								
2,4-Dinitrophenol	ND	670								
2,4-Dinitrotoluene	ND	33								
2,6-Dinitrotoluene	ND	33								
2-Chloronaphthalene	ND	6.7								
2-Chlorophenol	ND	33								
2-Methylnaphthalene	ND	6.7								
2-Methylphenol	ND	33								
2-Nitroaniline	ND	33								
2-Nitrophenol	ND	33								
3&4-Methylphenol	ND	33								
3,3'-Dichlorobenzidine	ND	170								
3-Nitroaniline	ND	33								
4,6-Dinitro-2-methylphenol	ND	33								
4-Bromophenyl phenyl ether	ND	33								
4-Chloro-3-methylphenol	ND	33								
4-Chloroaniline	ND	67								
4-Chlorophenyl phenyl ether	ND	33								
4-Nitroaniline	ND	170								
4-Nitrophenol	ND	170								
Acenaphthene	ND	6.7								
Acenaphthylene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(g,h,i)perylene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Bis(2-chloroethoxy)methane	ND	33								
Bis(2-chloroethyl)ether	ND	33								
Bis(2-chloroisopropyl)ether	ND	33								
Bis(2-ethylhexyl)phthalate	ND	33								
Butyl benzyl phthalate	ND	67								
Carbazole	ND	33								
Chrysene	ND	6.7								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: 179138	Instrument ID SVMS8	Method: SW846 8270D						
Dibenzo(a,h)anthracene	ND	6.7						
Dibenzofuran	ND	33						
Diethyl phthalate	ND	33						
Dimethyl phthalate	ND	33						
Di-n-butyl phthalate	ND	33						
Di-n-octyl phthalate	ND	33						
Fluoranthene	ND	6.7						
Fluorene	ND	6.7						
Hexachlorobenzene	ND	33						
Hexachlorobutadiene	ND	33						
Hexachlorocyclopentadiene	ND	33						
Hexachloroethane	ND	33						
Indeno(1,2,3-cd)pyrene	ND	6.7						
Isophorone	ND	170						
Naphthalene	ND	6.7						
Nitrobenzene	ND	170						
N-Nitrosodi-n-propylamine	ND	33						
N-Nitrosodiphenylamine	ND	33						
Pentachlorophenol	ND	33						
Phenanthrene	ND	6.7						
Phenol	ND	33						
Pyrene	ND	6.7						
<i>Surr: 2,4,6-Tribromophenol</i>	2287	0	3333	0	68.6	38-92	0	
<i>Surr: 2-Fluorobiphenyl</i>	2628	0	3333	0	78.8	44-107	0	
<i>Surr: 2-Fluorophenol</i>	2560	0	3333	0	76.8	37-109	0	
<i>Surr: 4-Terphenyl-d14</i>	2723	0	3333	0	81.7	52-123	0	
<i>Surr: Nitrobenzene-d5</i>	2537	0	3333	0	76.1	41-94	0	
<i>Surr: Phenol-d6</i>	2967	0	3333	0	89	28-111	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: 179138 Instrument ID SVMS8 Method: SW846 8270D

LCS				Sample ID: SLCSS1-179138-179138		Units: µg/Kg		Analysis Date: 6/25/2021 12:23 PM		
Client ID:		Run ID: SVMS8_210625A		SeqNo: 7525408		Prep Date: 6/24/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1173	33	1333	0	88	40-93	0			
1,2-Dichlorobenzene	1123	33	1333	0	84.3	42-94	0			
1,3-Dichlorobenzene	1133	33	1333	0	85	41-94	0			
1,4-Dichlorobenzene	1118	33	1333	0	83.9	42-94	0			
2,4,5-Trichlorophenol	883.3	33	1333	0	66.3	52-111	0			
2,4,6-Trichlorophenol	1038	33	1333	0	77.9	46-105	0			
2,4-Dichlorophenol	1057	33	1333	0	79.3	47-96	0			
2,4-Dimethylphenol	1103	33	1333	0	82.7	49-97	0			
2,4-Dinitrophenol	787.3	670	1333	0	59.1	10-106	0			
2,4-Dinitrotoluene	1275	33	1333	0	95.7	58-110	0			
2,6-Dinitrotoluene	1213	33	1333	0	91	59-108	0			
2-Chloronaphthalene	1186	6.7	1333	0	89	56-104	0			
2-Chlorophenol	1166	33	1333	0	87.5	50-104	0			
2-Methylnaphthalene	1201	6.7	1333	0	90.1	54-96	0			
2-Methylphenol	1187	33	1333	0	89.1	49-105	0			
2-Nitroaniline	1232	33	1333	0	92.4	54-107	0			
2-Nitrophenol	1132	33	1333	0	84.9	51-94	0			
3&4-Methylphenol	1186	33	1333	0	89	48-105	0			
3,3'-Dichlorobenzidine	996	170	1333	0	74.7	39-99	0			
3-Nitroaniline	1107	33	1333	0	83	17-92	0			
4,6-Dinitro-2-methylphenol	875.3	33	1333	0	65.7	32-103	0			
4-Bromophenyl phenyl ether	1235	33	1333	0	92.6	60-106	0			
4-Chloro-3-methylphenol	1203	33	1333	0	90.3	51-101	0			
4-Chloroaniline	833.3	67	1333	0	62.5	27-110	0			
4-Chlorophenyl phenyl ether	1217	33	1333	0	91.3	58-106	0			
4-Nitroaniline	1206	170	1333	0	90.5	21-100	0			
4-Nitrophenol	931.3	170	1333	0	69.9	29-120	0			
Acenaphthene	1201	6.7	1333	0	90.1	55-101	0			
Acenaphthylene	1133	6.7	1333	0	85	59-106	0			
Anthracene	1233	6.7	1333	0	92.5	67-105	0			
Benzo(a)anthracene	1233	6.7	1333	0	92.5	68-105	0			
Benzo(a)pyrene	1249	6.7	1333	0	93.7	68-110	0			
Benzo(b)fluoranthene	1305	6.7	1333	0	97.9	65-110	0			
Benzo(g,h,i)perylene	1101	6.7	1333	0	82.6	60-120	0			
Benzo(k)fluoranthene	1241	6.7	1333	0	93.1	66-113	0			
Bis(2-chloroethoxy)methane	1177	33	1333	0	88.3	53-96	0			
Bis(2-chloroethyl)ether	1137	33	1333	0	85.3	47-108	0			
Bis(2-chloroisopropyl)ether	1191	33	1333	0	89.4	47-107	0			
Bis(2-ethylhexyl)phthalate	1348	33	1333	0	101	59-117	0			
Butyl benzyl phthalate	1318	67	1333	0	98.9	59-106	0			
Carbazole	1203	33	1333	0	90.2	67-108	0			
Chrysene	1244	6.7	1333	0	93.3	68-108	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: 179138	Instrument ID SVMS8	Method: SW846 8270D						
Dibenzo(a,h)anthracene	1145	6.7	1333	0	85.9	62-119	0	
Dibenzofuran	1205	33	1333	0	90.4	60-104	0	
Diethyl phthalate	1289	33	1333	0	96.7	62-111	0	
Dimethyl phthalate	1247	33	1333	0	93.6	62-106	0	
Di-n-butyl phthalate	1289	33	1333	0	96.7	59-105	0	
Di-n-octyl phthalate	1470	33	1333	0	110	51-123	0	
Fluoranthene	1227	6.7	1333	0	92	67-106	0	
Fluorene	1237	6.7	1333	0	92.8	59-107	0	
Hexachlorobenzene	1231	33	1333	0	92.4	62-103	0	
Hexachlorobutadiene	1164	33	1333	0	87.3	51-94	0	
Hexachlorocyclopentadiene	1139	33	1333	0	85.4	25-120	0	
Hexachloroethane	1153	33	1333	0	86.5	55-93	0	
Indeno(1,2,3-cd)pyrene	1121	6.7	1333	0	84.1	56-120	0	
Isophorone	1162	170	1333	0	87.2	52-99	0	
Naphthalene	1157	6.7	1333	0	86.8	46-98	0	
Nitrobenzene	1156	170	1333	0	86.7	53-95	0	
N-Nitrosodi-n-propylamine	1230	33	1333	0	92.3	50-104	0	
N-Nitrosodiphenylamine	1191	33	1333	0	89.4	63-107	0	
Pentachlorophenol	745.3	33	1333	0	55.9	34-106	0	
Phenanthrene	1231	6.7	1333	0	92.4	66-101	0	
Phenol	1165	33	1333	0	87.4	44-109	0	
Pyrene	1230	6.7	1333	0	92.3	60-119	0	
<i>Surr: 2,4,6-Tribromophenol</i>	2622	0	3333	0	78.7	38-92	0	
<i>Surr: 2-Fluorobiphenyl</i>	2869	0	3333	0	86.1	44-107	0	
<i>Surr: 2-Fluorophenol</i>	2837	0	3333	0	85.1	37-109	0	
<i>Surr: 4-Terphenyl-d14</i>	3085	0	3333	0	92.5	52-123	0	
<i>Surr: Nitrobenzene-d5</i>	2821	0	3333	0	84.6	41-94	0	
<i>Surr: Phenol-d6</i>	3335	0	3333	0	100	28-111	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: 179138 Instrument ID SVMS8 Method: SW846 8270D

MS				Sample ID: 21061951-05B MS		Units: µg/Kg		Analysis Date: 6/25/2021 12:45 PM		
Client ID: PS-SB-1 (1-3)		Run ID: SVMS8_210625A		SeqNo: 7525409		Prep Date: 6/24/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	971.3	31	1263	0	76.9	40-93	0			
1,2-Dichlorobenzene	910.7	31	1263	0	72.1	42-94	0			
1,3-Dichlorobenzene	907.5	31	1263	0	71.9	41-94	0			
1,4-Dichlorobenzene	908.8	31	1263	0	72	42-94	0			
2,4,5-Trichlorophenol	883.5	31	1263	0	70	52-111	0			
2,4,6-Trichlorophenol	912.6	31	1263	0	72.3	46-105	0			
2,4-Dichlorophenol	901.2	31	1263	0	71.4	47-96	0			
2,4-Dimethylphenol	637.9	31	1263	0	50.5	49-97	0			
2,4-Dinitrophenol	384	630	1263	0	30.4	10-106	0			J
2,4-Dinitrotoluene	1072	31	1263	0	84.9	58-110	0			
2,6-Dinitrotoluene	1035	31	1263	0	82	59-108	0			
2-Chloronaphthalene	975.7	6.3	1263	0	77.3	56-104	0			
2-Chlorophenol	934.1	31	1263	0	74	50-104	0			
2-Methylnaphthalene	1088	6.3	1263	106.6	77.7	54-96	0			
2-Methylphenol	772.4	31	1263	0	61.2	49-105	0			
2-Nitroaniline	997.2	31	1263	0	79	54-107	0			
2-Nitrophenol	963.7	31	1263	0	76.3	51-94	0			
3&4-Methylphenol	817.9	31	1263	0	64.8	48-105	0			
3,3'-Dichlorobenzidine	312	160	1263	0	24.7	39-99	0			S
3-Nitroaniline	846.9	31	1263	0	67.1	17-92	0			
4,6-Dinitro-2-methylphenol	526.1	31	1263	0	41.7	32-103	0			
4-Bromophenyl phenyl ether	1030	31	1263	0	81.6	60-106	0			
4-Chloro-3-methylphenol	942.9	31	1263	0	74.7	51-101	0			
4-Chloroaniline	716.8	63	1263	0	56.8	27-110	0			
4-Chlorophenyl phenyl ether	1021	31	1263	0	80.8	58-106	0			
4-Nitroaniline	783.1	160	1263	0	62	21-100	0			
4-Nitrophenol	766.1	160	1263	0	60.7	29-120	0			
Acenaphthene	999.7	6.3	1263	9.103	78.4	55-101	0			
Acenaphthylene	975.1	6.3	1263	39.66	74.1	59-106	0			
Anthracene	1077	6.3	1263	61.12	80.4	67-105	0			
Benzo(a)anthracene	1259	6.3	1263	323.8	74.1	68-105	0			
Benzo(a)pyrene	1231	6.3	1263	333.6	71.1	68-110	0			
Benzo(b)fluoranthene	1329	6.3	1263	490.9	66.4	65-110	0			
Benzo(g,h,i)perylene	1209	6.3	1263	239.9	76.7	60-120	0			
Benzo(k)fluoranthene	1091	6.3	1263	143.7	75	66-113	0			
Bis(2-chloroethoxy)methane	964.4	31	1263	0	76.4	53-96	0			
Bis(2-chloroethyl)ether	929	31	1263	0	73.6	47-108	0			
Bis(2-chloroisopropyl)ether	959.3	31	1263	0	76	47-107	0			
Bis(2-ethylhexyl)phthalate	1141	31	1263	0	90.3	59-117	0			
Butyl benzyl phthalate	1104	63	1263	0	87.4	59-106	0			
Carbazole	1012	31	1263	0	80.2	67-108	0			
Chrysene	1247	6.3	1263	351.1	70.9	68-108	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: 179138	Instrument ID SVMS8		Method: SW846 8270D					
Dibenzo(a,h)anthracene	1112	6.3	1263	53.97	83.7	62-119	0	
Dibenzofuran	1046	31	1263	37.06	79.9	60-104	0	
Diethyl phthalate	1064	31	1263	0	84.3	62-111	0	
Dimethyl phthalate	1036	31	1263	0	82	62-106	0	
Di-n-butyl phthalate	1076	31	1263	0	85.2	59-105	0	
Di-n-octyl phthalate	1084	31	1263	0	85.9	51-123	0	
Fluoranthene	1386	6.3	1263	553.3	66	67-106	0	
Fluorene	1048	6.3	1263	14.95	81.8	59-107	0	
Hexachlorobenzene	1059	31	1263	0	83.9	62-103	0	
Hexachlorobutadiene	948	31	1263	0	75.1	51-94	0	
Hexachlorocyclopentadiene	794.5	31	1263	0	62.9	25-120	0	
Hexachloroethane	942.9	31	1263	0	74.7	55-93	0	
Indeno(1,2,3-cd)pyrene	1234	6.3	1263	267.2	76.6	56-120	0	
Isophorone	938.5	160	1263	0	74.3	52-99	0	
Naphthalene	1037	6.3	1263	83.22	75.5	46-98	0	
Nitrobenzene	950.5	160	1263	0	75.3	53-95	0	
N-Nitrosodi-n-propylamine	982.1	31	1263	0	77.8	50-104	0	
N-Nitrosodiphenylamine	1004	31	1263	0	79.5	63-107	0	
Pentachlorophenol	675.1	31	1263	0	53.5	34-106	0	
Phenanthrene	1245	6.3	1263	273.1	77	66-101	0	
Phenol	863.3	31	1263	0	68.4	44-109	0	
Pyrene	1385	6.3	1263	468.8	72.6	60-119	0	
<i>Surr: 2,4,6-Tribromophenol</i>	2325	0	3157	0	73.6	38-92	0	
<i>Surr: 2-Fluorobiphenyl</i>	2421	0	3157	0	76.7	44-107	0	
<i>Surr: 2-Fluorophenol</i>	2152	0	3157	0	68.1	37-109	0	
<i>Surr: 4-Terphenyl-d14</i>	2605	0	3157	0	82.5	52-123	0	
<i>Surr: Nitrobenzene-d5</i>	2339	0	3157	0	74.1	41-94	0	
<i>Surr: Phenol-d6</i>	2384	0	3157	0	75.5	28-111	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: 179138 Instrument ID SVMS8 Method: SW846 8270D

MSD				Sample ID: 21061951-05B MSD			Units: µg/Kg		Analysis Date: 6/25/2021 01:07 PM		
Client ID: PS-SB-1 (1-3)		Run ID: SVMS8_210625A		SeqNo: 7525410		Prep Date: 6/24/2021		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,2,4-Trichlorobenzene	982	31	1251	0	78.5	40-93	971.3	1.1	30		
1,2-Dichlorobenzene	923.9	31	1251	0	73.9	42-94	910.7	1.44	30		
1,3-Dichlorobenzene	920.7	31	1251	0	73.6	41-94	907.5	1.44	30		
1,4-Dichlorobenzene	937	31	1251	0	74.9	42-94	908.8	3.06	30		
2,4,5-Trichlorophenol	850.1	31	1251	0	68	52-111	883.5	3.86	30		
2,4,6-Trichlorophenol	887.6	31	1251	0	71	46-105	912.6	2.78	30		
2,4-Dichlorophenol	874.5	31	1251	0	69.9	47-96	901.2	3.01	30		
2,4-Dimethylphenol	567.3	31	1251	0	45.4	49-97	637.9	11.7	30	S	
2,4-Dinitrophenol	377.2	630	1251	0	30.2	10-106	384	0	30	J	
2,4-Dinitrotoluene	1021	31	1251	0	81.6	58-110	1072	4.87	30		
2,6-Dinitrotoluene	1001	31	1251	0	80.1	59-108	1035	3.31	30		
2-Chloronaphthalene	965.8	6.3	1251	0	77.2	56-104	975.7	1.03	30		
2-Chlorophenol	915.1	31	1251	0	73.2	50-104	934.1	2.05	30		
2-Methylnaphthalene	1100	6.3	1251	106.6	79.4	54-96	1088	1.11	30		
2-Methylphenol	735.6	31	1251	0	58.8	49-105	772.4	4.88	30		
2-Nitroaniline	942	31	1251	0	75.3	54-107	997.2	5.69	30		
2-Nitrophenol	958.3	31	1251	0	76.6	51-94	963.7	0.569	30		
3&4-Methylphenol	790.6	31	1251	0	63.2	48-105	817.9	3.38	30		
3,3'-Dichlorobenzidine	266.5	160	1251	0	21.3	39-99	312	15.7	30	S	
3-Nitroaniline	798.1	31	1251	0	63.8	17-92	846.9	5.93	30		
4,6-Dinitro-2-methylphenol	473.5	31	1251	0	37.9	32-103	526.1	10.5	30		
4-Bromophenyl phenyl ether	1038	31	1251	0	83	60-106	1030	0.741	30		
4-Chloro-3-methylphenol	893.9	31	1251	0	71.5	51-101	942.9	5.34	30		
4-Chloroaniline	677.4	63	1251	0	54.2	27-110	716.8	5.65	30		
4-Chlorophenyl phenyl ether	997.7	31	1251	0	79.8	58-106	1021	2.27	30		
4-Nitroaniline	721.2	160	1251	0	57.7	21-100	783.1	8.23	30		
4-Nitrophenol	671.2	160	1251	0	53.7	29-120	766.1	13.2	30		
Acenaphthene	991.4	6.3	1251	9.103	78.5	55-101	999.7	0.835	30		
Acenaphthylene	971.4	6.3	1251	39.66	74.5	59-106	975.1	0.38	30		
Anthracene	1088	6.3	1251	61.12	82.1	67-105	1077	1.07	30		
Benzo(a)anthracene	1437	6.3	1251	323.8	89	68-105	1259	13.2	30		
Benzo(a)pyrene	1443	6.3	1251	333.6	88.7	68-110	1231	15.9	30		
Benzo(b)fluoranthene	1601	6.3	1251	490.9	88.7	65-110	1329	18.6	30		
Benzo(g,h,i)perylene	1319	6.3	1251	239.9	86.2	60-120	1209	8.69	30		
Benzo(k)fluoranthene	1156	6.3	1251	143.7	80.9	66-113	1091	5.75	30		
Bis(2-chloroethoxy)methane	961.4	31	1251	0	76.9	53-96	964.4	0.309	30		
Bis(2-chloroethyl)ether	953.9	31	1251	0	76.3	47-108	929	2.64	30		
Bis(2-chloroisopropyl)ether	982	31	1251	0	78.5	47-107	959.3	2.34	30		
Bis(2-ethylhexyl)phthalate	1119	31	1251	0	89.5	59-117	1141	1.91	30		
Butyl benzyl phthalate	1070	63	1251	0	85.5	59-106	1104	3.16	30		
Carbazole	968.3	31	1251	0	77.4	67-108	1012	4.45	30		
Chrysene	1443	6.3	1251	351.1	87.3	68-108	1247	14.6	30		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: 179138	Instrument ID SVMS8		Method: SW846 8270D							
Dibenzo(a,h)anthracene	1078	6.3	1251	53.97	81.9	62-119	1112	3.09	30	
Dibenzofuran	1012	31	1251	37.06	78	60-104	1046	3.28	30	
Diethyl phthalate	1036	31	1251	0	82.9	62-111	1064	2.64	30	
Dimethyl phthalate	1013	31	1251	0	81	62-106	1036	2.19	30	
Di-n-butyl phthalate	1063	31	1251	0	85	59-105	1076	1.14	30	
Di-n-octyl phthalate	1070	31	1251	0	85.6	51-123	1084	1.31	30	
Fluoranthene	1708	6.3	1251	553.3	92.3	67-106	1386	20.8	30	
Fluorene	1021	6.3	1251	14.95	80.4	59-107	1048	2.66	30	
Hexachlorobenzene	1026	31	1251	0	82.1	62-103	1059	3.13	30	
Hexachlorobutadiene	980.2	31	1251	0	78.4	51-94	948	3.34	30	
Hexachlorocyclopentadiene	796.9	31	1251	0	63.7	25-120	794.5	0.302	30	
Hexachloroethane	973.9	31	1251	0	77.9	55-93	942.9	3.24	30	
Indeno(1,2,3-cd)pyrene	1378	6.3	1251	267.2	88.8	56-120	1234	11	30	
Isophorone	934.5	160	1251	0	74.7	52-99	938.5	0.425	30	
Naphthalene	1044	6.3	1251	83.22	76.8	46-98	1037	0.669	30	
Nitrobenzene	963.3	160	1251	0	77	53-95	950.5	1.34	30	
N-Nitrosodi-n-propylamine	983.3	31	1251	0	78.6	50-104	982.1	0.126	30	
N-Nitrosodiphenylamine	960.2	31	1251	0	76.8	63-107	1004	4.42	30	
Pentachlorophenol	598	31	1251	0	47.8	34-106	675.1	12.1	30	
Phenanthrene	1318	6.3	1251	273.1	83.5	66-101	1245	5.66	30	
Phenol	843.2	31	1251	0	67.4	44-109	863.3	2.36	30	
Pyrene	1743	6.3	1251	468.8	102	60-119	1385	22.9	30	
<i>Surr: 2,4,6-Tribromophenol</i>	2237	0	3127	0	71.5	38-92	2325	3.85	40	
<i>Surr: 2-Fluorobiphenyl</i>	2396	0	3127	0	76.6	44-107	2421	1.01	40	
<i>Surr: 2-Fluorophenol</i>	2141	0	3127	0	68.5	37-109	2152	0.493	40	
<i>Surr: 4-Terphenyl-d14</i>	2513	0	3127	0	80.4	52-123	2605	3.59	40	
<i>Surr: Nitrobenzene-d5</i>	2358	0	3127	0	75.4	41-94	2339	0.832	40	
<i>Surr: Phenol-d6</i>	2341	0	3127	0	74.8	28-111	2384	1.84	40	

The following samples were analyzed in this batch:

21061951-05B	21061951-06B	21061951-10B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

QC Page: 24 of 46

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: 179213 Instrument ID SVMS6 Method: SW8270E

MBLK		Sample ID: SBLKS1-179213-179213				Units: µg/Kg		Analysis Date: 6/25/2021 02:09 PM		
Client ID:		Run ID: SVMS6_210625A		SeqNo: 7529309		Prep Date: 6/25/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Chloronaphthalene	ND	4.2								
2-Methylnaphthalene	ND	4.2								
Acenaphthene	ND	4.2								
Acenaphthylene	ND	4.2								
Anthracene	ND	4.2								
Benzo(a)anthracene	ND	4.2								
Benzo(a)pyrene	ND	4.2								
Benzo(b)fluoranthene	ND	4.2								
Benzo(g,h,i)perylene	ND	4.2								
Benzo(k)fluoranthene	ND	4.2								
Chrysene	ND	4.2								
Dibenzo(a,h)anthracene	ND	4.2								
Fluoranthene	ND	4.2								
Fluorene	ND	4.2								
Indeno(1,2,3-cd)pyrene	ND	4.2								
Naphthalene	ND	4.2								
Phenanthrene	ND	4.2								
Pyrene	ND	4.2								
Surr: 2-Fluorobiphenyl	2894	0	3333	0	86.8	20-140		0		
Surr: 4-Terphenyl-d14	2585	0	3333	0	77.6	22-172		0		
Surr: Nitrobenzene-d5	2948	0	3333	0	88.4	28-140		0		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: 179213 Instrument ID SVMS6 Method: SW8270E

LCS		Sample ID: SLCSS1-179213-179213				Units: µg/Kg		Analysis Date: 6/25/2021 02:25 PM		
Client ID:		Run ID: SVMS6_210625A		SeqNo: 7529310		Prep Date: 6/25/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Chloronaphthalene	1192	4.2	1333	0	89.5	40-140	0			
2-Methylnaphthalene	1227	4.2	1333	0	92	40-140	0			
Acenaphthene	1149	4.2	1333	0	86.2	40-140	0			
Acenaphthylene	1171	4.2	1333	0	87.8	40-140	0			
Anthracene	1244	4.2	1333	0	93.3	40-140	0			
Benzo(a)anthracene	1268	4.2	1333	0	95.1	40-140	0			
Benzo(a)pyrene	1309	4.2	1333	0	98.2	40-140	0			
Benzo(b)fluoranthene	1234	4.2	1333	0	92.6	40-140	0			
Benzo(g,h,i)perylene	1373	4.2	1333	0	103	40-140	0			
Benzo(k)fluoranthene	1250	4.2	1333	0	93.7	40-140	0			
Chrysene	1248	4.2	1333	0	93.6	40-140	0			
Dibenzo(a,h)anthracene	1249	4.2	1333	0	93.7	40-140	0			
Fluoranthene	1504	4.2	1333	0	113	40-140	0			
Fluorene	1143	4.2	1333	0	85.7	40-140	0			
Indeno(1,2,3-cd)pyrene	1272	4.2	1333	0	95.4	40-140	0			
Naphthalene	1189	4.2	1333	0	89.2	40-140	0			
Phenanthrene	1268	4.2	1333	0	95.1	40-140	0			
Pyrene	1170	4.2	1333	0	87.8	40-140	0			
<i>Surr: 2-Fluorobiphenyl</i>	2852	0	3333	0	85.6	20-140	0			
<i>Surr: 4-Terphenyl-d14</i>	2532	0	3333	0	76	22-172	0			
<i>Surr: Nitrobenzene-d5</i>	2467	0	3333	0	74	28-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: 179213 Instrument ID SVMS6 Method: SW8270E

MS				Sample ID: 21061856-02B MS		Units: µg/Kg		Analysis Date: 6/25/2021 02:40 PM		
Client ID:		Run ID: SVMS6_210625A		SeqNo: 7529311		Prep Date: 6/25/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Chloronaphthalene	1190	4.1	1299	0	91.6	40-140	0			
2-Methylnaphthalene	1291	4.1	1299	0	99.4	40-140	0			
Acenaphthene	1155	4.1	1299	0	88.9	40-140	0			
Acenaphthylene	1192	4.1	1299	0	91.7	40-140	0			
Anthracene	1193	4.1	1299	0	91.8	40-140	0			
Benzo(a)anthracene	1227	4.1	1299	0	94.5	40-140	0			
Benzo(a)pyrene	1256	4.1	1299	0	96.7	40-140	0			
Benzo(b)fluoranthene	1231	4.1	1299	0	94.8	40-140	0			
Benzo(g,h,i)perylene	1290	4.1	1299	0	99.3	40-140	0			
Benzo(k)fluoranthene	1155	4.1	1299	0	88.9	40-140	0			
Chrysene	1218	4.1	1299	0	93.8	40-140	0			
Dibenzo(a,h)anthracene	1194	4.1	1299	0	91.9	40-140	0			
Fluoranthene	1586	4.1	1299	0	122	40-140	0			
Fluorene	1018	4.1	1299	0	78.3	40-140	0			
Indeno(1,2,3-cd)pyrene	1192	4.1	1299	0	91.8	40-140	0			
Naphthalene	1154	4.1	1299	0	88.8	40-140	0			
Phenanthrene	1193	4.1	1299	0	91.8	40-140	0			
Pyrene	1164	4.1	1299	0	89.6	40-140	0			
Surr: 2-Fluorobiphenyl	2823	0	3249	0	86.9	20-140	0			
Surr: 4-Terphenyl-d14	2472	0	3249	0	76.1	22-172	0			
Surr: Nitrobenzene-d5	2804	0	3249	0	86.3	28-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: 179213 Instrument ID SVMS6 Method: SW8270E

MSD				Sample ID: 21061856-02B MSD		Units: µg/Kg		Analysis Date: 6/28/2021 04:52 PM		
Client ID:		Run ID: SVMS6_210628A		SeqNo: 7534063		Prep Date: 6/25/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Chloronaphthalene	1110	4.0	1287	0	86.3	40-140	1190	6.99	30	
2-Methylnaphthalene	1086	4.0	1287	0	84.4	40-140	1291	17.3	30	
Acenaphthene	1057	4.0	1287	0	82.2	40-140	1155	8.81	30	
Acenaphthylene	1097	4.0	1287	0	85.2	40-140	1192	8.32	30	
Anthracene	1115	4.0	1287	0	86.7	40-140	1193	6.77	30	
Benzo(a)anthracene	1097	4.0	1287	2.622	85	40-140	1227	11.2	30	
Benzo(a)pyrene	1104	4.0	1287	0	85.8	40-140	1256	12.9	30	
Benzo(b)fluoranthene	1058	4.0	1287	0	82.2	40-140	1231	15.1	30	
Benzo(g,h,i)perylene	1216	4.0	1287	0	94.5	40-140	1290	5.9	30	
Benzo(k)fluoranthene	1038	4.0	1287	0	80.6	40-140	1155	10.7	30	
Chrysene	1108	4.0	1287	0	86.1	40-140	1218	9.43	30	
Dibenzo(a,h)anthracene	1133	4.0	1287	0	88.1	40-140	1194	5.21	30	
Fluoranthene	1033	4.0	1287	0	80.3	40-140	1586	42.2	30	R
Fluorene	1029	4.0	1287	0	80	40-140	1018	1.11	30	
Indeno(1,2,3-cd)pyrene	1153	4.0	1287	0	89.6	40-140	1192	3.36	30	
Naphthalene	1168	4.0	1287	0	90.8	40-140	1154	1.22	30	
Phenanthrene	1089	4.0	1287	0	84.6	40-140	1193	9.09	30	
Pyrene	1135	4.0	1287	0	88.2	40-140	1164	2.48	30	
Surr: 2-Fluorobiphenyl	2851	0	3218	0	88.6	20-140	2823	1	30	
Surr: 4-Terphenyl-d14	2796	0	3218	0	86.9	22-172	2472	12.3	30	
Surr: Nitrobenzene-d5	2349	0	3218	0	73	28-140	2804	17.7	30	

The following samples were analyzed in this batch:

21061951-07B	21061951-08B	21061951-09B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: **178908** Instrument ID **VMS11** Method: **SW8260C**

MBLK		Sample ID: MBLK-178908-178908			Units: µg/Kg-dry		Analysis Date: 6/25/2021 01:29 PM			
Client ID:		Run ID: VMS11_210625A			SeqNo: 7526344		Prep Date: 6/21/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	30								
1,1,1-Trichloroethane	ND	30								
1,1,2,2-Tetrachloroethane	ND	30								
1,1,2-Trichloroethane	ND	30								
1,1,2-Trichlorotrifluoroethane	ND	30								
1,1-Dichloroethane	ND	30								
1,1-Dichloroethene	ND	30								
1,2,3-Trichloropropane	ND	30								
1,2,4-Trichlorobenzene	ND	100								
1,2,4-Trimethylbenzene	ND	30								
1,2-Dibromo-3-chloropropane	ND	100								
1,2-Dibromoethane	ND	30								
1,2-Dichlorobenzene	ND	30								
1,2-Dichloroethane	ND	100								
1,2-Dichloropropane	ND	30								
1,3,5-Trimethylbenzene	ND	100								
1,3-Dichlorobenzene	ND	30								
1,4-Dichlorobenzene	ND	30								
2-Butanone	ND	200								
2-Hexanone	ND	30								
2-Methylnaphthalene	ND	100								
4-Methyl-2-pentanone	ND	30								
Acetone	ND	100								
Acrylonitrile	ND	100								
Benzene	ND	30								
Bromodichloromethane	ND	30								
Bromoform	ND	30								
Bromomethane	ND	100								
Carbon disulfide	ND	30								
Carbon tetrachloride	ND	30								
Chlorobenzene	ND	30								
Chloroethane	ND	100								
Chloroform	ND	30								
Chloromethane	ND	100								
cis-1,2-Dichloroethene	ND	30								
cis-1,3-Dichloropropene	ND	30								
Dibromochloromethane	ND	30								
Dibromomethane	ND	30								
Dichlorodifluoromethane	ND	100								
Diethyl ether	ND	30								
Ethylbenzene	ND	30								
Hexachloroethane	ND	100								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: 178908	Instrument ID VMS11	Method: SW8260C						
Isopropylbenzene	ND	30						
m,p-Xylene	ND	60						
Methyl tert-butyl ether	ND	30						
Methylene chloride	ND	250						
Naphthalene	ND	100						
n-Propylbenzene	ND	30						
o-Xylene	ND	30						
Styrene	ND	30						
Tetrachloroethene	ND	30						
Toluene	ND	30						
trans-1,2-Dichloroethene	ND	30						
trans-1,3-Dichloropropene	ND	30						
Trichloroethene	ND	30						
Trichlorofluoromethane	ND	30						
Vinyl acetate	ND	250						
Vinyl chloride	ND	30						
Xylenes, Total	ND	90						
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1014</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>1013</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>989.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>940.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>94</i>	<i>70-130</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: **178908** Instrument ID **VMS11** Method: **SW8260C**

LCS		Sample ID: LCS-178908-178908			Units: µg/Kg-dry		Analysis Date: 6/25/2021 12:22 PM			
Client ID:		Run ID: VMS11_210625A			SeqNo: 7526342		Prep Date: 6/21/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	967	30	1000	0	96.7	75-125	0			
1,1,1-Trichloroethane	1042	30	1000	0	104	70-135	0			
1,1,2,2-Tetrachloroethane	1035	30	1000	0	104	55-130	0			
1,1,2-Trichloroethane	998	30	1000	0	99.8	60-125	0			
1,1-Dichloroethane	1017	30	1000	0	102	75-125	0			
1,1-Dichloroethene	1080	30	1000	0	108	76-148	0			
1,2,3-Trichloropropane	1012	30	1000	0	101	65-130	0			
1,2,4-Trichlorobenzene	951.5	100	1000	0	95.2	65-130	0			
1,2,4-Trimethylbenzene	939	30	1000	0	93.9	65-135	0			
1,2-Dibromo-3-chloropropane	878.5	100	1000	0	87.8	40-135	0			
1,2-Dibromoethane	1118	30	1000	0	112	80-195	0			
1,2-Dichlorobenzene	978.5	30	1000	0	97.8	75-120	0			
1,2-Dichloroethane	1009	100	1000	0	101	70-135	0			
1,2-Dichloropropane	1004	30	1000	0	100	70-120	0			
1,3,5-Trimethylbenzene	958.5	100	1000	0	95.8	65-135	0			
1,3-Dichlorobenzene	980.5	30	1000	0	98	70-125	0			
1,4-Dichlorobenzene	1018	30	1000	0	102	70-125	0			
2-Butanone	1144	200	1000	0	114	30-160	0			
2-Hexanone	1010	30	1000	0	101	45-145	0			
4-Methyl-2-pentanone	1301	30	1000	0	130	74-176	0			
Acetone	1494	100	1000	0	149	20-160	0			
Acrylonitrile	1029	100	1000	0	103	70-135	0			
Benzene	1012	30	1000	0	101	75-125	0			
Bromodichloromethane	976.5	30	1000	0	97.6	70-130	0			
Bromoform	982.5	30	1000	0	98.2	55-135	0			
Bromomethane	1123	100	1000	0	112	50-170	0			
Carbon disulfide	1012	30	1000	0	101	45-160	0			
Carbon tetrachloride	1084	30	1000	0	108	65-135	0			
Chlorobenzene	973.5	30	1000	0	97.4	75-125	0			
Chloroethane	1087	100	1000	0	109	40-155	0			
Chloroform	1016	30	1000	0	102	66-140	0			
Chloromethane	1086	100	1000	0	109	50-144	0			
cis-1,2-Dichloroethene	1058	30	1000	0	106	65-125	0			
cis-1,3-Dichloropropene	926.5	30	1000	0	92.6	70-125	0			
Dibromochloromethane	862.5	30	1000	0	86.2	65-135	0			
Dibromomethane	1046	30	1000	0	105	75-130	0			
Dichlorodifluoromethane	1308	100	1000	0	131	35-135	0			
Diethyl ether	1046	30	1000	0	105	67-150	0			
Ethylbenzene	990.5	30	1000	0	99	75-125	0			
Hexachloroethane	1033	100	1000	0	103	51-122	0			
Isopropylbenzene	946	30	1000	0	94.6	75-130	0			
m,p-Xylene	1909	60	2000	0	95.4	80-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: 178908	Instrument ID VMS11		Method: SW8260C					
Methyl tert-butyl ether	1074	30	1000	0	107	75-125	0	
Methylene chloride	1057	250	1000	0	106	55-145	0	
Naphthalene	996	100	1000	0	99.6	40-140	0	
n-Propylbenzene	963	30	1000	0	96.3	65-135	0	
o-Xylene	991	30	1000	0	99.1	75-125	0	
Styrene	1016	30	1000	0	102	80-138	0	
Tetrachloroethene	1066	30	1000	0	107	67-167	0	
Toluene	972	30	1000	0	97.2	70-125	0	
trans-1,2-Dichloroethene	1024	30	1000	0	102	65-135	0	
trans-1,3-Dichloropropene	934.5	30	1000	0	93.4	59-129	0	
Trichloroethene	998	30	1000	0	99.8	75-125	0	
Trichlorofluoromethane	1070	30	1000	0	107	25-185	0	
Vinyl chloride	1106	30	1000	0	111	60-125	0	
Xylenes, Total	2900	90	3000	0	96.7	75-125	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	983.5	0	1000	0	98.4	70-130	0	
<i>Surr: 4-Bromofluorobenzene</i>	1024	0	1000	0	102	70-130	0	
<i>Surr: Dibromofluoromethane</i>	998.5	0	1000	0	99.8	70-130	0	
<i>Surr: Toluene-d8</i>	977	0	1000	0	97.7	70-130	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: 178908 Instrument ID VMS11 Method: SW8260C

MS				Sample ID: 21061951-05A MS		Units: µg/Kg-dry		Analysis Date: 6/30/2021 07:33 PM		
Client ID: PS-SB-1 (1-3)		Run ID: VMS9_210630A		SeqNo: 7542218		Prep Date: 6/21/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	1057	34	1132	0	93.4	75-125	0			
1,1,1-Trichloroethane	1157	34	1132	0	102	70-135	0			
1,1,2,2-Tetrachloroethane	497.9	34	1132	0	44	55-130	0			S
1,1,2-Trichloroethane	1133	34	1132	0	100	60-125	0			
1,1-Dichloroethane	1178	34	1132	0	104	75-125	0			
1,1-Dichloroethene	1237	34	1132	0	109	76-148	0			
1,2,3-Trichloropropane	1232	34	1132	0	109	65-130	0			
1,2,4-Trichlorobenzene	1060	110	1132	0	93.7	65-130	0			
1,2,4-Trimethylbenzene	1179	34	1132	0	104	65-135	0			
1,2-Dibromo-3-chloropropane	1007	110	1132	0	88.9	40-135	0			
1,2-Dibromoethane	1161	34	1132	0	103	80-195	0			
1,2-Dichlorobenzene	1163	34	1132	0	103	75-120	0			
1,2-Dichloroethane	1068	110	1132	0	94.4	70-135	0			
1,2-Dichloropropane	1147	34	1132	0	101	70-120	0			
1,3,5-Trimethylbenzene	1175	110	1132	0	104	65-135	0			
1,3-Dichlorobenzene	1033	34	1132	0	91.3	70-125	0			
1,4-Dichlorobenzene	1094	34	1132	0	96.6	70-125	0			
2-Butanone	2051	230	1132	105.8	172	30-160	0			S
2-Hexanone	1549	34	1132	0	137	45-145	0			
4-Methyl-2-pentanone	1321	34	1132	0	117	74-176	0			
Acetone	3167	110	1132	0	280	20-160	0			S
Acrylonitrile	1220	110	1132	0	108	70-135	0			
Benzene	1124	34	1132	0	99.3	75-125	0			
Bromodichloromethane	1021	34	1132	0	90.2	70-130	0			
Bromoform	867.3	34	1132	0	76.6	55-135	0			
Bromomethane	1177	110	1132	0	104	50-170	0			
Carbon disulfide	1100	34	1132	0	97.2	45-160	0			
Carbon tetrachloride	1050	34	1132	0	92.7	65-135	0			
Chlorobenzene	1132	34	1132	0	100	75-125	0			
Chloroethane	936.4	110	1132	0	82.7	40-155	0			
Chloroform	1156	34	1132	0	102	66-140	0			
Chloromethane	660.8	110	1132	0	58.4	50-144	0			
cis-1,2-Dichloroethene	1110	34	1132	0	98.1	65-125	0			
cis-1,3-Dichloropropene	1001	34	1132	0	88.5	70-125	0			
Dibromochloromethane	978.2	34	1132	0	86.4	65-135	0			
Dibromomethane	1075	34	1132	0	95	75-130	0			
Dichlorodifluoromethane	1163	110	1132	0	103	35-135	0			
Diethyl ether	1237	34	1132	0	109	67-150	0			
Ethylbenzene	1129	34	1132	0	99.8	75-125	0			
Hexachloroethane	945.4	110	1132	0	83.5	51-122	0			
Isopropylbenzene	1225	34	1132	0	108	75-130	0			
m,p-Xylene	2296	68	2263	0	101	80-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: 178908	Instrument ID VMS11		Method: SW8260C					
Methyl tert-butyl ether	1181	34	1132	0	104	75-125	0	
Methylene chloride	1097	280	1132	0	96.9	55-145	0	
Naphthalene	1004	110	1132	0	88.8	40-140	0	
n-Propylbenzene	1151	34	1132	0	102	65-135	0	
o-Xylene	1165	34	1132	0	103	75-125	0	
Styrene	1115	34	1132	0	98.5	80-138	0	
Tetrachloroethene	2075	34	1132	0	183	67-167	0	S
Toluene	1162	34	1132	0	103	70-125	0	
trans-1,2-Dichloroethene	1149	34	1132	0	101	65-135	0	
trans-1,3-Dichloropropene	924.5	34	1132	0	81.7	59-129	0	
Trichloroethene	1625	34	1132	0	144	75-125	0	S
Trichlorofluoromethane	1109	34	1132	0	98	25-185	0	
Vinyl chloride	1203	34	1132	0	106	60-125	0	
Xylenes, Total	3461	100	3395	0	102	75-125	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1134</i>	<i>0</i>	<i>1132</i>	<i>0</i>	<i>100</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>1193</i>	<i>0</i>	<i>1132</i>	<i>0</i>	<i>105</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>1120</i>	<i>0</i>	<i>1132</i>	<i>0</i>	<i>99</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>1152</i>	<i>0</i>	<i>1132</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: 178908 Instrument ID VMS11 Method: SW8260C

MSD				Sample ID: 21061951-05A MSD		Units: µg/Kg-dry		Analysis Date: 6/30/2021 07:48 PM		
Client ID: PS-SB-1 (1-3)			Run ID: VMS9_210630A		SeqNo: 7542219		Prep Date: 6/21/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	1059	34	1132	0	93.5	75-125	1057	0.161	30	
1,1,1-Trichloroethane	1153	34	1132	0	102	70-135	1157	0.343	30	
1,1,2,2-Tetrachloroethane	502.4	34	1132	0	44.4	55-130	497.9	0.905	30	S
1,1,2-Trichloroethane	1096	34	1132	0	96.8	60-125	1133	3.35	30	
1,1-Dichloroethane	1178	34	1132	0	104	75-125	1178	0	30	
1,1-Dichloroethene	1231	34	1132	0	109	76-148	1237	0.504	30	
1,2,3-Trichloropropane	1198	34	1132	0	106	65-130	1232	2.84	30	
1,2,4-Trichlorobenzene	979.4	110	1132	0	86.5	65-130	1060	7.93	30	
1,2,4-Trimethylbenzene	1163	34	1132	0	103	65-135	1179	1.35	30	
1,2-Dibromo-3-chloropropane	959	110	1132	0	84.7	40-135	1007	4.84	30	
1,2-Dibromoethane	1120	34	1132	0	99	80-195	1161	3.57	30	
1,2-Dichlorobenzene	1113	34	1132	0	98.4	75-120	1163	4.32	30	
1,2-Dichloroethane	1106	110	1132	0	97.7	70-135	1068	3.44	30	
1,2-Dichloropropane	1305	34	1132	0	115	70-120	1147	12.9	30	
1,3,5-Trimethylbenzene	1205	110	1132	0	106	65-135	1175	2.57	30	
1,3-Dichlorobenzene	989.5	34	1132	0	87.4	70-125	1033	4.31	30	
1,4-Dichlorobenzene	1082	34	1132	0	95.6	70-125	1094	1.04	30	
2-Butanone	2090	230	1132	105.8	175	30-160	2051	1.89	30	S
2-Hexanone	1599	34	1132	0	141	45-145	1549	3.24	30	
4-Methyl-2-pentanone	1069	34	1132	0	94.5	74-176	1321	21.1	30	
Acetone	3074	110	1132	0	272	20-160	3167	2.97	30	S
Acrylonitrile	1231	110	1132	0	109	70-135	1220	0.832	30	
Benzene	1167	34	1132	0	103	75-125	1124	3.75	30	
Bromodichloromethane	1192	34	1132	0	105	70-130	1021	15.5	30	
Bromoform	900.7	34	1132	0	79.6	55-135	867.3	3.78	30	
Bromomethane	1302	110	1132	0	115	50-170	1177	10.1	30	
Carbon disulfide	1134	34	1132	0	100	45-160	1100	3.04	30	
Carbon tetrachloride	1051	34	1132	0	92.8	65-135	1050	0.108	30	
Chlorobenzene	1199	34	1132	0	106	75-125	1132	5.82	30	
Chloroethane	ND	110	1132	0	0	40-155	936.4	0	30	S
Chloroform	1156	34	1132	0	102	66-140	1156	0.0484	30	
Chloromethane	673.8	110	1132	0	59.5	50-144	660.8	1.95	30	
cis-1,2-Dichloroethene	1113	34	1132	0	98.4	65-125	1110	0.255	30	
cis-1,3-Dichloropropene	923.4	34	1132	0	81.6	70-125	1001	8.11	30	
Dibromochloromethane	957.9	34	1132	0	84.6	65-135	978.2	2.1	30	
Dibromomethane	1255	34	1132	0	111	75-130	1075	15.5	30	
Dichlorodifluoromethane	1131	110	1132	0	99.9	35-135	1163	2.81	30	
Diethyl ether	1211	34	1132	0	107	67-150	1237	2.13	30	
Ethylbenzene	1115	34	1132	0	98.5	75-125	1129	1.31	30	
Hexachloroethane	882	110	1132	0	77.9	51-122	945.4	6.93	30	
Isopropylbenzene	1149	34	1132	0	101	75-130	1225	6.44	30	
m,p-Xylene	2322	68	2263	0	103	80-125	2296	1.13	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: 178908	Instrument ID VMS11		Method: SW8260C							
Methyl tert-butyl ether	1177	34	1132	0	104	75-125	1181	0.288	30	
Methylene chloride	1152	280	1132	0	102	55-145	1097	4.93	30	
Naphthalene	963	110	1132	0	85.1	40-140	1004	4.2	30	
n-Propylbenzene	1120	34	1132	0	99	65-135	1151	2.74	30	
o-Xylene	1172	34	1132	0	104	75-125	1165	0.629	30	
Styrene	1132	34	1132	0	100	80-138	1115	1.51	30	
Tetrachloroethene	2019	34	1132	0	178	67-167	2075	2.74	30	S
Toluene	1030	34	1132	0	91	70-125	1162	12	30	
trans-1,2-Dichloroethene	1198	34	1132	0	106	65-135	1149	4.24	30	
trans-1,3-Dichloropropene	840.2	34	1132	0	74.2	59-129	924.5	9.55	30	
Trichloroethene	1638	34	1132	0	145	75-125	1625	0.797	30	S
Trichlorofluoromethane	1046	34	1132	0	92.4	25-185	1109	5.93	30	
Vinyl chloride	1171	34	1132	0	103	60-125	1203	2.72	30	
Xylenes, Total	3494	100	3395	0	103	75-125	3461	0.96	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	1163	0	1132	0	103	70-130	1134	2.51	30	
<i>Surr: 4-Bromofluorobenzene</i>	1224	0	1132	0	108	70-130	1193	2.58	30	
<i>Surr: Dibromofluoromethane</i>	1157	0	1132	0	102	70-130	1120	3.23	30	
<i>Surr: Toluene-d8</i>	1032	0	1132	0	91.2	70-130	1152	11	30	

The following samples were analyzed in this batch:

21061951-02A	21061951-04A	21061951-05A
21061951-06A	21061951-07A	21061951-08A
21061951-09A	21061951-10A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: **R321040A** Instrument ID **VMS10** Method: **SW8260C**

MBLK		Sample ID: 10V-BLKW1-210630-R321040A				Units: µg/L		Analysis Date: 6/30/2021 12:32 PM		
Client ID:		Run ID: VMS10_210630A		SeqNo: 7543012		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
1,1,2-Trichlorotrifluoroethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2,3-Trichloropropane	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	1.0								
1,2-Dibromoethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
2-Butanone	ND	5.0								
2-Hexanone	ND	5.0								
2-Methylnaphthalene	ND	5.0								
4-Methyl-2-pentanone	ND	1.0								
Acetone	ND	10								
Acrylonitrile	ND	1.0								
Benzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	1.0								
Carbon disulfide	ND	1.0								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	1.0								
Chloroform	ND	1.0								
Chloromethane	ND	1.0								
cis-1,2-Dichloroethene	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
Diethyl ether	ND	1.0								
Ethylbenzene	ND	1.0								
Hexachloroethane	ND	1.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: R321040A	Instrument ID VMS10	Method: SW8260C						
Isopropylbenzene	ND	1.0						
m,p-Xylene	ND	2.0						
Methyl tert-butyl ether	ND	1.0						
Methylene chloride	ND	5.0						
Naphthalene	ND	5.0						
n-Propylbenzene	ND	1.0						
o-Xylene	ND	1.0						
Styrene	ND	1.0						
Tetrachloroethene	ND	1.0						
Toluene	ND	1.0						
trans-1,2-Dichloroethene	ND	1.0						
trans-1,3-Dichloropropene	ND	1.0						
Trichloroethene	ND	1.0						
Trichlorofluoromethane	ND	1.0						
Vinyl acetate	ND	5.0						
Vinyl chloride	ND	1.0						
Xylenes, Total	ND	3.0						
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>20.43</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>102</i>	<i>75-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.26</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96.3</i>	<i>80-110</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>21.13</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>106</i>	<i>85-115</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>20.09</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>100</i>	<i>85-110</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: **R321040A** Instrument ID **VMS10** Method: **SW8260C**

LCS		Sample ID: 10V-LCSW1-210630-R321040A				Units: µg/L		Analysis Date: 6/30/2021 11:42 AM		
Client ID:		Run ID: VMS10_210630A		SeqNo: 7543010		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	20.05	1.0	20	0	100	73-114	0			
1,1,1-Trichloroethane	19.6	1.0	20	0	98	75-130	0			
1,1,2,2-Tetrachloroethane	24.24	1.0	20	0	121	75-130	0			
1,1,2-Trichloroethane	21.7	1.0	20	0	108	75-125	0			
1,1-Dichloroethane	23.11	1.0	20	0	116	68-142	0			
1,1-Dichloroethene	21.41	1.0	20	0	107	70-145	0			
1,2,3-Trichloropropane	19.58	1.0	20	0	97.9	75-125	0			
1,2,4-Trichlorobenzene	19.31	1.0	20	0	96.6	70-135	0			
1,2,4-Trimethylbenzene	19.41	1.0	20	0	97	75-130	0			
1,2-Dibromo-3-chloropropane	17.83	1.0	20	0	89.2	60-130	0			
1,2-Dibromoethane	23.25	1.0	20	0	116	67-155	0			
1,2-Dichlorobenzene	19.61	1.0	20	0	98	70-130	0			
1,2-Dichloroethane	21.19	1.0	20	0	106	78-125	0			
1,2-Dichloropropane	22.52	1.0	20	0	113	75-125	0			
1,3,5-Trimethylbenzene	20.02	1.0	20	0	100	75-130	0			
1,3-Dichlorobenzene	20.15	1.0	20	0	101	75-130	0			
1,4-Dichlorobenzene	21.04	1.0	20	0	105	75-130	0			
2-Butanone	22.22	5.0	20	0	111	55-150	0			
2-Hexanone	18.39	5.0	20	0	92	60-135	0			
4-Methyl-2-pentanone	27.73	1.0	20	0	139	77-178	0			
Acetone	25.46	10	20	0	127	60-160	0			
Acrylonitrile	24.16	1.0	20	0	121	60-140	0			
Benzene	21.71	1.0	20	0	109	70-130	0			
Bromodichloromethane	21.14	1.0	20	0	106	75-125	0			
Bromoform	17.4	1.0	20	0	87	60-125	0			
Bromomethane	43.51	1.0	20	0	218	30-185	0			S
Carbon disulfide	22.12	1.0	20	0	111	60-165	0			
Carbon tetrachloride	18.74	1.0	20	0	93.7	65-140	0			
Chlorobenzene	20.35	1.0	20	0	102	80-120	0			
Chloroethane	19.42	1.0	20	0	97.1	31-172	0			
Chloroform	23.08	1.0	20	0	115	66-135	0			
Chloromethane	16.83	1.0	20	0	84.2	46-148	0			
cis-1,2-Dichloroethene	23.46	1.0	20	0	117	75-134	0			
cis-1,3-Dichloropropene	20.03	1.0	20	0	100	70-130	0			
Dibromochloromethane	19.13	1.0	20	0	95.6	60-115	0			
Dibromomethane	20.57	1.0	20	0	103	79-126	0			
Dichlorodifluoromethane	16.6	1.0	20	0	83	10-180	0			
Diethyl ether	24.6	1.0	20	0	123	70-130	0			
Ethylbenzene	19.1	1.0	20	0	95.5	76-123	0			
Hexachloroethane	19.12	1.0	20	0	95.6	50-124	0			
Isopropylbenzene	20.13	1.0	20	0	101	80-127	0			
m,p-Xylene	40.96	2.0	40	0	102	75-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: R321040A	Instrument ID VMS10		Method: SW8260C					
Methyl tert-butyl ether	23.78	1.0	20	0	119	68-129	0	
Methylene chloride	23.05	5.0	20	0	115	72-125	0	
Naphthalene	17.9	5.0	20	0	89.5	55-160	0	
n-Propylbenzene	19.27	1.0	20	0	96.4	76-116	0	
o-Xylene	20.35	1.0	20	0	102	76-127	0	
Styrene	20.87	1.0	20	0	104	79-117	0	
Tetrachloroethene	19.36	1.0	20	0	96.8	68-166	0	
Toluene	19.7	1.0	20	0	98.5	76-125	0	
trans-1,2-Dichloroethene	23.57	1.0	20	0	118	80-140	0	
trans-1,3-Dichloropropene	20.09	1.0	20	0	100	56-132	0	
Trichloroethene	19.08	1.0	20	0	95.4	77-125	0	
Trichlorofluoromethane	16.67	1.0	20	0	83.4	60-140	0	
Vinyl chloride	19.37	1.0	20	0	96.8	50-136	0	
Xylenes, Total	61.31	3.0	60	0	102	76-127	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	20.08	0	20	0	100	75-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	19.86	0	20	0	99.3	80-110	0	
<i>Surr: Dibromofluoromethane</i>	20.34	0	20	0	102	85-115	0	
<i>Surr: Toluene-d8</i>	19.98	0	20	0	99.9	85-110	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: **R321040A** Instrument ID **VMS10** Method: **SW8260C**

MS		Sample ID: 21061981-02A MS				Units: µg/L		Analysis Date: 6/30/2021 06:54 PM		
Client ID:		Run ID: VMS10_210630A		SeqNo: 7543034		Prep Date:		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	180.7	10	200	0	90.4	73-114	0			
1,1,1-Trichloroethane	193	10	200	0	96.5	75-130	0			
1,1,2,2-Tetrachloroethane	220.8	10	200	0	110	75-130	0			
1,1,2-Trichloroethane	211.9	10	200	0	106	75-125	0			
1,1-Dichloroethane	229.8	10	200	0	115	68-142	0			
1,1-Dichloroethene	213.9	10	200	0	107	70-145	0			
1,2,3-Trichloropropane	201	10	200	0	100	75-125	0			
1,2,4-Trichlorobenzene	181	10	200	0	90.5	70-135	0			
1,2,4-Trimethylbenzene	1196	10	200	1024	86	75-130	0			EO
1,2-Dibromo-3-chloropropane	138.2	10	200	0	69.1	60-130	0			
1,2-Dibromoethane	227.1	10	200	0	114	67-155	0			
1,2-Dichlorobenzene	190.1	10	200	0	95	70-130	0			
1,2-Dichloroethane	200.1	10	200	0	100	78-125	0			
1,2-Dichloropropane	219.2	10	200	0	110	75-125	0			
1,3,5-Trimethylbenzene	352.2	10	200	147.6	102	75-130	0			
1,3-Dichlorobenzene	194.6	10	200	0	97.3	75-130	0			
1,4-Dichlorobenzene	201.2	10	200	0	101	75-130	0			
2-Butanone	237.2	50	200	11.6	113	55-150	0			
2-Hexanone	198.2	50	200	0	99.1	60-135	0			
4-Methyl-2-pentanone	275.7	10	200	0	138	77-178	0			
Acetone	275.4	100	200	43.9	116	60-160	0			
Acrylonitrile	262.4	10	200	0	131	60-140	0			
Benzene	293.4	10	200	82	106	70-130	0			
Bromodichloromethane	183.8	10	200	0	91.9	75-125	0			
Bromoform	120.8	10	200	0	60.4	60-125	0			
Bromomethane	448	10	200	0	224	30-185	0			S
Carbon disulfide	221	10	200	0	110	60-165	0			
Carbon tetrachloride	176.3	10	200	0	88.2	65-140	0			
Chlorobenzene	203.2	10	200	0	102	80-120	0			
Chloroethane	307.3	10	200	0	154	31-172	0			
Chloroform	226	10	200	0	113	66-135	0			
Chloromethane	168.2	10	200	0	84.1	46-148	0			
cis-1,2-Dichloroethene	230.3	10	200	0	115	75-134	0			
cis-1,3-Dichloropropene	191.5	10	200	0	95.8	70-130	0			
Dibromochloromethane	151.5	10	200	0	75.8	60-115	0			
Dibromomethane	202.8	10	200	0	101	79-126	0			
Dichlorodifluoromethane	164.7	10	200	0	82.4	10-180	0			
Diethyl ether	220.8	10	200	0	110	70-130	0			
Ethylbenzene	986.7	10	200	816.5	85.1	76-123	0			O
Hexachloroethane	176	10	200	0	88	50-124	0			
Isopropylbenzene	265.1	10	200	56	105	80-127	0			
m,p-Xylene	1649	20	400	1269	95.1	75-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
Work Order: 21061951
Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: R321040A	Instrument ID VMS10		Method: SW8260C					
Methyl tert-butyl ether	222.8	10	200	0	111	68-129	0	
Methylene chloride	225.1	50	200	0	113	72-125	0	
Naphthalene	520.8	50	200	315.6	103	55-160	0	
n-Propylbenzene	357.7	10	200	163.2	97.2	76-116	0	
o-Xylene	283.8	10	200	77.2	103	76-127	0	
Styrene	210.2	10	200	0	105	79-117	0	
Tetrachloroethene	203.1	10	200	0	102	68-166	0	
Toluene	251.3	10	200	53.9	98.7	76-125	0	
trans-1,2-Dichloroethene	228.8	10	200	0	114	80-140	0	
trans-1,3-Dichloropropene	185.9	10	200	0	93	56-132	0	
Trichloroethene	193.3	10	200	0	96.6	77-125	0	
Trichlorofluoromethane	165.2	10	200	0	82.6	60-140	0	
Vinyl chloride	194.4	10	200	0	97.2	50-136	0	
Xylenes, Total	1933	30	600	1346	97.8	76-127	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	196.6	0	200	0	98.3	75-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	201.4	0	200	0	101	80-110	0	
<i>Surr: Dibromofluoromethane</i>	196.7	0	200	0	98.4	85-115	0	
<i>Surr: Toluene-d8</i>	205.2	0	200	0	103	85-110	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: **R321040A** Instrument ID **VMS10** Method: **SW8260C**

MSD				Sample ID: 21061981-02A MSD		Units: µg/L		Analysis Date: 6/30/2021 07:11 PM		
Client ID:		Run ID: VMS10_210630A		SeqNo: 7543035		Prep Date:		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	180.7	10	200	0	90.4	73-114	180.7	0	30	
1,1,1-Trichloroethane	191.8	10	200	0	95.9	75-130	193	0.624	30	
1,1,2,2-Tetrachloroethane	223.8	10	200	0	112	75-130	220.8	1.35	30	
1,1,2-Trichloroethane	209	10	200	0	104	75-125	211.9	1.38	30	
1,1-Dichloroethane	231.1	10	200	0	116	68-142	229.8	0.564	30	
1,1-Dichloroethene	218.5	10	200	0	109	70-145	213.9	2.13	30	
1,2,3-Trichloropropane	193.5	10	200	0	96.8	75-125	201	3.8	30	
1,2,4-Trichlorobenzene	184.3	10	200	0	92.2	70-135	181	1.81	30	
1,2,4-Trimethylbenzene	1203	10	200	1024	89.8	75-130	1196	0.625	30	EO
1,2-Dibromo-3-chloropropane	146	10	200	0	73	60-130	138.2	5.49	30	
1,2-Dibromoethane	225.8	10	200	0	113	67-155	227.1	0.574	30	
1,2-Dichlorobenzene	193.5	10	200	0	96.8	70-130	190.1	1.77	30	
1,2-Dichloroethane	199.6	10	200	0	99.8	78-125	200.1	0.25	30	
1,2-Dichloropropane	223	10	200	0	112	75-125	219.2	1.72	30	
1,3,5-Trimethylbenzene	354.5	10	200	147.6	103	75-130	352.2	0.651	30	
1,3-Dichlorobenzene	198.4	10	200	0	99.2	75-130	194.6	1.93	30	
1,4-Dichlorobenzene	203.6	10	200	0	102	75-130	201.2	1.19	30	
2-Butanone	243.7	50	200	11.6	116	55-150	237.2	2.7	30	
2-Hexanone	198.5	50	200	0	99.2	60-135	198.2	0.151	30	
4-Methyl-2-pentanone	275.3	10	200	0	138	77-178	275.7	0.145	30	
Acetone	284.5	100	200	43.9	120	60-160	275.4	3.25	30	
Acrylonitrile	266.2	10	200	0	133	60-140	262.4	1.44	30	
Benzene	297.8	10	200	82	108	70-130	293.4	1.49	30	
Bromodichloromethane	186.2	10	200	0	93.1	75-125	183.8	1.3	30	
Bromoform	123.5	10	200	0	61.8	60-125	120.8	2.21	30	
Bromomethane	937.1	10	200	0	469	30-185	448	70.6	30	SR
Carbon disulfide	229.8	10	200	0	115	60-165	221	3.9	30	
Carbon tetrachloride	175.7	10	200	0	87.8	65-140	176.3	0.341	30	
Chlorobenzene	201.8	10	200	0	101	80-120	203.2	0.691	30	
Chloroethane	337.7	10	200	0	169	31-172	307.3	9.43	30	
Chloroform	227.8	10	200	0	114	66-135	226	0.793	30	
Chloromethane	165.7	10	200	0	82.8	46-148	168.2	1.5	30	
cis-1,2-Dichloroethene	233.2	10	200	0	117	75-134	230.3	1.25	30	
cis-1,3-Dichloropropene	196.1	10	200	0	98	70-130	191.5	2.37	30	
Dibromochloromethane	150.3	10	200	0	75.2	60-115	151.5	0.795	30	
Dibromomethane	200.2	10	200	0	100	79-126	202.8	1.29	30	
Dichlorodifluoromethane	165.9	10	200	0	83	10-180	164.7	0.726	30	
Diethyl ether	227.5	10	200	0	114	70-130	220.8	2.99	30	
Ethylbenzene	991	10	200	816.5	87.2	76-123	986.7	0.435	30	O
Hexachloroethane	188.8	10	200	0	94.4	50-124	176	7.02	30	
Isopropylbenzene	262.5	10	200	56	103	80-127	265.1	0.986	30	
m,p-Xylene	1658	20	400	1269	97.3	75-130	1649	0.544	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: R321040A	Instrument ID VMS10			Method: SW8260C						
Methyl tert-butyl ether	224.3	10	200	0	112	68-129	222.8	0.671	30	
Methylene chloride	227.1	50	200	0	114	72-125	225.1	0.885	30	
Naphthalene	524.8	50	200	315.6	105	55-160	520.8	0.765	30	
n-Propylbenzene	358.6	10	200	163.2	97.7	76-116	357.7	0.251	30	
o-Xylene	283.4	10	200	77.2	103	76-127	283.8	0.141	30	
Styrene	207.9	10	200	0	104	79-117	210.2	1.1	30	
Tetrachloroethene	199.8	10	200	0	99.9	68-166	203.1	1.64	30	
Toluene	253.4	10	200	53.9	99.8	76-125	251.3	0.832	30	
trans-1,2-Dichloroethene	235	10	200	0	118	80-140	228.8	2.67	30	
trans-1,3-Dichloropropene	182.8	10	200	0	91.4	56-132	185.9	1.68	30	
Trichloroethene	193.9	10	200	0	97	77-125	193.3	0.31	30	
Trichlorofluoromethane	168.7	10	200	0	84.4	60-140	165.2	2.1	30	
Vinyl chloride	195.1	10	200	0	97.6	50-136	194.4	0.359	30	
Xylenes, Total	1942	30	600	1346	99.2	76-127	1933	0.444	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>195.8</i>	<i>0</i>	<i>200</i>	<i>0</i>	<i>97.9</i>	<i>75-120</i>	<i>196.6</i>	<i>0.408</i>	<i>30</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>200.5</i>	<i>0</i>	<i>200</i>	<i>0</i>	<i>100</i>	<i>80-110</i>	<i>201.4</i>	<i>0.448</i>	<i>30</i>	
<i>Surr: Dibromofluoromethane</i>	<i>196.7</i>	<i>0</i>	<i>200</i>	<i>0</i>	<i>98.4</i>	<i>85-115</i>	<i>196.7</i>	<i>0</i>	<i>30</i>	
<i>Surr: Toluene-d8</i>	<i>201</i>	<i>0</i>	<i>200</i>	<i>0</i>	<i>100</i>	<i>85-110</i>	<i>205.2</i>	<i>2.07</i>	<i>30</i>	

The following samples were analyzed in this batch:

21061951-01A	21061951-03A
--------------	--------------

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: **180153** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-180153-180153				Units: mg/Kg		Analysis Date: 7/13/2021 02:45 PM		
Client ID:		Run ID: WETCHEM_210713G				SeqNo: 7576460		Prep Date: 7/13/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 1.0

LCS		Sample ID: LCS-180153-180153				Units: mg/Kg		Analysis Date: 7/13/2021 02:45 PM		
Client ID:		Run ID: WETCHEM_210713G				SeqNo: 7576461		Prep Date: 7/13/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.48 1.0 5 0 89.6 80-120 0

MS		Sample ID: 21061951-05B MS				Units: mg/Kg		Analysis Date: 7/13/2021 02:45 PM		
Client ID: PS-SB-1 (1-3)		Run ID: WETCHEM_210713G				SeqNo: 7576463		Prep Date: 7/13/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 1.0 5 -0.17 3.4 75-125 0 S

MS		Sample ID: 21061951-05B MSI				Units: mg/Kg		Analysis Date: 7/13/2021 02:45 PM		
Client ID: PS-SB-1 (1-3)		Run ID: WETCHEM_210713G				SeqNo: 7576465		Prep Date: 7/13/2021		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2087 100 2349 -0.17 88.8 75-125 0

MSD		Sample ID: 21061951-05B MSD				Units: mg/Kg		Analysis Date: 7/13/2021 02:45 PM		
Client ID: PS-SB-1 (1-3)		Run ID: WETCHEM_210713G				SeqNo: 7576464		Prep Date: 7/13/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 1.0 5 -0.17 3.4 75-125 -0.17 0 20 S

The following samples were analyzed in this batch:

21061951-05B	21061951-06B	21061951-07B
21061951-09B	21061951-10B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: AKT Peerless
 Work Order: 21061951
 Project: 10627F2-2-20

QC BATCH REPORT

Batch ID: **R320762** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R320762				Units: % of sample		Analysis Date: 6/25/2021 09:53 AM		
Client ID:		Run ID: MOIST_210625A		SeqNo: 7528243		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	ND	0.10								

LCS		Sample ID: LCS-R320762				Units: % of sample		Analysis Date: 6/25/2021 09:53 AM		
Client ID:		Run ID: MOIST_210625A		SeqNo: 7528242		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.99	0.10	100	0	100	98-102	0			

DUP		Sample ID: 21061951-05B DUP				Units: % of sample		Analysis Date: 6/25/2021 09:53 AM		
Client ID: PS-SB-1 (1-3)		Run ID: MOIST_210625A		SeqNo: 7528221		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	9.41	0.10	0	0	0	0-0	9.23	1.93	10	

DUP		Sample ID: 21062100-04B DUP				Units: % of sample		Analysis Date: 6/25/2021 09:53 AM		
Client ID:		Run ID: MOIST_210625A		SeqNo: 7528232		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	12.14	0.10	0	0	0	0-0	12.16	0.165	10	

The following samples were analyzed in this batch:

21061951-05B	21061951-06B	21061951-07B
21061951-08B	21061951-09B	21061951-10B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1



Cincinnati, OH
+1 513 733 5336

Fort Collins, CO
+1 970 490 1511

Everett, WA
+1 425 356 2600

Holland, MI
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Chain of Custody Form

Houston, TX
+1 281 530 5656

Spring City, PA
+1 610 948 4903

South Charleston, WV
+1 304 356 3168

Middletown, PA
+1 717 944 5541

Salt Lake City, UT
+1 801 266 7700

York, PA
+1 717 505 5280

Page 1 of 2

COC ID: 223031

ALS Project Manager:

ALS Work Order #: 21061951

Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order		Project Name		A	VOCs										
Work Order		Project Number	10627F2-2-20	B	SVOCs										
Company Name	AKT Peerless	Bill To Company	AKT Peerless	C	MI Ten Metals										
Send Report To		Invoice Attn	Accounts Payable	D	PCBs										
Address	22725 Orchard Lake Road	Address	214 Janes Avenue	E	PNAs										
City/State/Zip	Farmington, MI 48336	City/State/Zip	Saginaw, MI 48607	F	Arsenic										
Phone	(248) 615-1333	Phone	(989) 754-9896	G	Cadmium, Chromium, Lead										
Fax		Fax		H											
e-Mail Address	<u>Wase Wasielewski's e aktpeerless.com</u>	e-Mail Address	<u>meadam@aktpeerless.com</u>	I											
				J											

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Trip Blank	6/17/21	8:00 8:00				X										
2	Instrument Blank	6/17/21	8:00				X										
3	Soil Equipment Blank	6/17/21	9:20				X	X	X	X							
4	Soil Field Blank	6/17/21	8:00				X										
5	PS-SB-1 (1-3)	6/17/21	9:30				X	X	X	X							
6	PS-SB-2 (17-19)	6/17/21	10:47				X	X	X								
7	PS-SB-3 (16-18)	6/17/21	11:30				X				X	X	X				
8	PS-SB-4 (16-8)	6/17/21	12:05								X	X					
9	PS-SB-1 (10-12)	6/17/21	10:06				X				X	X	X				
10	Soil Duplicate	6/17/21	9:30				X	X	X	X							

Sampler(s) Please Print & Sign <u>Patrick McAdam</u>		Shipment Method		Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> Std 10 WK Days <input type="checkbox"/> 5 WK Days <input type="checkbox"/> Other <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour				Results Due Date:			
Relinquished by: <u>Patrick McAdam</u>	Date: 6-18-21	Time: 1257	Received by: <u>[Signature]</u>	Notes: Do not analyze PCBs on Soil Equipment Blank, etc.							
Relinquished by: QS	Date: 6/19/21	Time: 0800	Received by (Laboratory): <u>[Signature]</u>	Cooler ID: IRI	Cooler Temp: 4.0°C	QC Package: (Check One Box Below)					
Logged by (Laboratory): DFS	Date: 6/21/21	Time: 0900	Checked by (Laboratory): <u>[Signature]</u>	<input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> TRRP CheckList <input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level IV SWB46/CLP <input type="checkbox"/> Other							
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8- Na C 9-5035											

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.



Cincinnati, OH
+1 513 733 5336

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+1 425 356 2600

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Holland, MI
+1 616 399 6070

Chain of Custody Form

Page 2 of 2

COC ID: 223047

Houston, TX
+1 281 530 5656

Middletown, PA
+1 717 944 5541

Spring City, PA
+1 610 948 4903

Salt Lake City, UT
+1 801 266 7700

South Charleston, WV
+1 304 356 3168

York, PA
+1 717 505 5280

Customer Information		Project Information				ALS Project Manager: _____ ALS Work Order #: <u>21061951</u>											
Purchase Order		Project Name		Parameter/Method Request for Analysis													
Work Order		Project Number		A													
Company Name		Bill To Company		B													
Send Report To		Invoice Attn		C													
Address		Address		D													
City/State/Zip		City/State/Zip		E													
Phone		Phone		F													
Fax		Fax		G													
e-Mail Address		e-Mail Address		H													
				I													
				J													
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
5	Soil MS	6/17/21	9:30				X	X	X	X							
5	Soil MSD	6/17/21	9:30				X	X	X	X							
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign <i>Patrol Madam</i>		Shipment Method		Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> Std 10 WK Days <input type="checkbox"/> 5 WK Days <input type="checkbox"/> Other <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour				Results Due Date:	
Relinquished by: <i>[Signature]</i>	Date: 6/18/21	Time: 12:57	Received by: <i>[Signature]</i>	Notes:					
Relinquished by: QS	Date: 6/19/21	Time: 0800	Received by (Laboratory): <i>[Signature]</i>	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)			
Logged by (Laboratory): DPS	Date: 6/21/21	Time: 0900	Checked by (Laboratory):	121	4.0°C	<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP CheckList		
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035				<input type="checkbox"/> Level III Std QC/Raw Data	<input type="checkbox"/> TRRP Level IV				
				<input type="checkbox"/> Level IV SW846/CLP					
				<input type="checkbox"/> Other					

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

Sample Receipt Checklist

Client Name: AKT PEERLESS - FARMINGTON

Date/Time Received: 19-Jun-21 08:00

Work Order: 21061951

Received by: DS

Checklist completed by Diane Shaw 21-Jun-21

Reviewed by: Bill Carey 21-Jun-21

Matrices: Soil, Water

Carrier name: Courier

- Shipping container/cooler in good condition? Yes [checked] No [] Not Present []
Custody seals intact on shipping container/cooler? Yes [checked] No [] Not Present []
Custody seals intact on sample bottles? Yes [] No [] Not Present [checked]
Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Samples in proper container/bottle? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []
All samples received within holding time? Yes [checked] No []
Container/Temp Blank temperature in compliance? Yes [checked] No []
Sample(s) received on ice? Yes [checked] No []

Temperature(s)/Thermometer(s): 4.0/4.0 c IR1

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 6/21/2021 9:15:47 AM

Water - VOA vials have zero headspace? Yes [checked] No [] No VOA vials submitted []

Water - pH acceptable upon receipt? Yes [checked] No [] N/A []

pH adjusted? Yes [] No [checked] N/A []

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

Appendix E

AKT Peerless' November 2022 Supplemental Phase II ESA

SUPPLEMENTAL PHASE II ENVIRONMENTAL SITE ASSESSMENT

220 N. Park Street, Ypsilanti, Michigan

PREPARED FOR Renovare Ypsilanti Homes, LLC
42 Watson Street, Suite B
Detroit, Michigan 48201

PROJECT # 10627F3-1-20

DATE November 3, 2022

Table of Contents



1.0 INTRODUCTION.....	1
2.0 BACKGROUND.....	1
2.1 SITE DESCRIPTION AND PHYSICAL SETTING.....	1
2.2 SUBJECT PROPERTY HISTORY AND LAND USE.....	2
2.3 ADJACENT PROPERTY LAND USE.....	2
2.4 PREVIOUS ENVIRONMENTAL INVESTIGATIONS	3
2.4.1 AKT Peerless’ October 2015 Phase I ESA.....	3
2.4.2 AKT Peerless’ September 2021 Phase II ESA	4
2.4.3 AKT Peerless’ September 2022 Phase I ESA	5
2.4.4 G2’s July 2022 Report on Geotechnical Investigation	5
2.5 SUMMARY OF ENVIRONMENTAL CONDITIONS	6
3.0 SUPPLEMENTAL PHASE II ENVIRONMENTAL SITE ASSESSMENT ACTIVITIES	6
3.1 SCOPE OF ASSESSMENT	6
3.1.1 Soil Evaluation	7
3.1.2 Groundwater Evaluation	7
3.2 QUALITY ASSURANCE/QUALITY CONTROL.....	7
3.2.1 Decontamination of Equipment	7
3.2.2 Calibration of Field Equipment.....	8
3.2.3 Documentation of Activities.....	8
3.2.4 Sample Preservation Techniques.....	8
3.3 LABORATORY ANALYSIS AND METHODS.....	8
4.0 EVALUATION AND PRESENTATION OF RESULTS	9
4.1 SUBSURFACE CONDITIONS.....	9
4.1.1 Soil and Groundwater Conditions based on Published Material	9
4.1.2 Soil and Groundwater Conditions based on Field Observations.....	10
4.2 ANALYTICAL LABORATORY RESULTS.....	10
4.2.1 Soil Analytical Results.....	10
5.0 SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS	13
5.1 SUMMARY OF ENVIRONMENTAL CONDITIONS	13
5.2 SUMMARY OF SUPPLEMENTAL SUBSURFACE INVESTIGATION.....	13
5.3 CONCLUSIONS.....	14
5.4 RECOMMENDATIONS.....	14
6.0 LIMITATIONS	15
7.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS	16

FIGURES

Figure 1 Topographic Location Map
Figure 2 Site Map with Soil Boring Locations
Figure 3 Site Map with Soil Analytical Results Part 201 Generic RCC

TABLES

Table 1.....Summary of Soil Analytical Results
Footnotes

APPENDICES

Appendix A..... G2’s July 2022 Report on Geotechnical Investigation
Appendix B..... Soil Boring Logs
Appendix C..... Analytical Laboratory Report and Chain of Custody Documentation

SUPPLEMENTAL PHASE II ENVIRONMENTAL SITE ASSESSMENT

220 N. Park Street, Ypsilanti, Michigan
 AKT Peerless Project No. 10627F3-1-20

1.0 Introduction

Renovare Ypsilanti Homes, LLC (Client) retained AKT to conduct a Supplemental Phase II Environmental Site Assessment (ESA) of the property located at 220 N. Park Street in Ypsilanti, Washtenaw County, Michigan (the subject property). This Supplemental Phase II ESA was conducted in accordance with AKT Peerless’ Proposal for a Supplemental Phase II ESA (Proposal Number PF-29750.3), dated September 23, 2022, and is based on ASTM Standard Practice E 1903-19, *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process*.

The Supplemental Phase II ESA scope of work was intended to further evaluate environmental conditions at the subject property in connection with (1) soil contamination associated with on-site fill material of unknown origin on the south-central portion of the subject property, as identified during completion of AKT Peerless’ September 2021 Phase II ESA; and (2) additional suspect fill material at four discrete geotechnical soil boring locations advanced at the subject property, as identified during completion of G2 Consulting Group’s (G2) July 2022 Report on Geotechnical Investigation.

AKT Peerless’ Supplemental Phase II ESA report documents the field activities, sampling protocols, and laboratory results associated with this assessment. AKT Peerless’ Supplemental Phase II ESA was performed for the benefit of Renovare Ypsilanti Homes, LLC, who may rely on the contents and conclusions of this report.

2.0 Background

2.1 Site Description and Physical Setting

The subject property is located in the northeast ¼ of Section 9 (Township 3 South, Range 7 East), Ypsilanti, Washtenaw County, Michigan. The subject property is bordered to the west by N. Park Street, to the north by High Street, to the east by N. Grove Street, and to the south by a Norfolk Southern Railway railroad. See the following table for additional subject property details:

Subject Property Identifiers

Address	Tax Identification Number	Owner of Record	Approximate Acreage
220 N. Park Street	11-11-09-111-004	City of Ypsilanti	4.46 acres

The subject property currently consists of undeveloped land (i.e., maintained lawn, trees) and does not contain structures or other significant improvements.

The subject property is currently zoned Core Neighborhood Mid (CN-Mid) and is located in an area of Ypsilanti that is characterized by residential, commercial, and light industrial properties, surface roadways, municipal sanitary sewer and water services, and electric and natural gas utilities.

Refer to Figure 1 for a topographic site location map. See Figure 2 for a site map.

2.2 Subject Property History and Land Use

The subject property was owned by John Gilbert by 1859. John Gilbert constructed the existing mansion on the northern adjoining property at 227 N. Grove Street during his ownership and appears to have maintained the subject property as undeveloped grounds around the mansion until the mansion was vacated around 1928. The Gilbert mansion was briefly occupied by Arm of Honor Fraternity in the 1930s. In 1938, City of Ypsilanti acquired the subject property and Gilbert mansion through tax foreclosure and subsequently maintained the subject property as a recreational park. The Boys Club of Ypsilanti (later the Boys and Girls Club) appears to have begun using and/or maintaining the subject property by 1963. In the early 1970s, the Boys and Girls Club constructed the original portion of the former Club building, which was expanded in the 1990s. The Boys and Girls Club continued to occupy and maintain the subject property until vacating the Club building in 2010. The Club building and exterior basketball court and baseball diamond features were demolished in 2016. City of Ypsilanti has since maintained the subject property as lawn and trees with no significant or obvious use.

2.3 Adjacent Property Land Use

The following table describes the current uses and/or occupants of the adjoining properties:

Adjoining Property Data

Direction	Address	Current Use / Occupant
North	302 N. Park Street	Single-family residential / Not identified
	313 High Street	Single-family residential / Not identified
	315 High Street	Single-family residential / Not identified
	227 N. Grove Street	Multi-family residential (Gilbert Mansion) / Not identified
East	216 N. Grove Street	Single-family residential / Not identified
	410 Locust Street	Single-family residential / Not identified
	214 N. Grove Street	Single-family residential / Not identified
	212 N. Grove Street	Single-family residential / Not identified
	208 N. Grove Street	Single-family residential / Not identified
	206 N. Grove Street	Undeveloped land, remnant paved parking lot / Unoccupied
Southeast	106 N. Grove Street	Paved parking lot / Marsh Plating Corp.

Direction	Address	Current Use / Occupant
South	103 N. Grove Street	Light industrial / Marsh Plating Corp.
	204 N. Park Street	Light industrial / Not identified
West	209 N. Park Street	Single-family residential / Not identified
	213 N. Park Street	Single-family residential / Not identified
	223 N. Park Street	Undeveloped land, remnant paved parking lot / Unoccupied
Northwest	301 N. Park Street	Light industrial / Great Lakes Design, LLC

2.4 Previous Environmental Investigations

AKT Peerless reviewed the following reports previously prepared for the subject property.

2.4.1 AKT Peerless' October 2015 Phase I ESA

In October 2015, AKT Peerless completed a Phase I ESA of the subject property. The Phase I ESA was conducted in accordance with United States Environmental Protection Agency (USEPA) Standards and Practices for All Appropriate Inquiries [AAI, 40 Code of Federal Regulations (CFR) Part 312] and ASTM Standard Practice E 1527-13. At the time of the assessment, the subject property was improved with one two-story commercial building formerly used as the Boys and Girls Club recreation center (i.e., the former Club building) and associated exterior baseball diamond, basketball court, and landscaped and parking areas. The Club building was unoccupied and not used for a significant or obvious purpose at that time.

AKT Peerless identified the following recognized environmental conditions (RECs):

- During AKT Peerless' site reconnaissance, fill material (soil and concrete) was observed within the thick vegetation located along the southern property boundary. The nature and extent of this fill material is unknown.
- A southeastern adjoining property (206 N. Grove Street) was identified as an oil distributor which utilized a bulk oil storage yard from the mid-1950s until the late 1970s. This site was also listed as a State Hazardous Waste Site (SHWS) and was identified on the Baseline Environmental Assessment (BEA) database. In AKT Peerless' opinion, the past use of this adjoining property and identification on the SHWS and BEA databases represents an REC.
- A southern adjoining property (204 N. Park Street) was utilized as a coal storage yard and bulk oil and gasoline storage facility in the 1920s until the early 1970s. No information regarding any current or former underground storage tanks (USTs), aboveground storage tanks (ASTs), installation and removal dates, business practices, or other environmental data was identified. In AKT Peerless' opinion, the past use of this adjoining property represents an REC.
- A southern adjoining property (103 N. Grove Street) has been utilized for various industrial operations (including manufacturing, machine shop, foundry, and plating operations) from at least 1916 until the present day. This site was also listed on the Resource Conservation and Recovery Act (RCRA) and Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) databases with multiple hazardous waste violations identified. In AKT Peerless' opinion, the current and past use of this adjoining property represents an REC.

- A western adjoining property (223 N. Park Street) historically operated as a coal storage yard from at least 1916 until the mid-1960s. In AKT Peerless’ opinion, the past use of the western adjoining property represents an REC.

2.4.2 AKT Peerless’ September 2021 Phase II ESA

To further evaluate the RECs identified in its October 2015 Phase I ESA, AKT Peerless completed a Phase II ESA of the subject property in September 2021. At the time of the assessment, the subject property consisted of undeveloped, vegetated land (i.e., maintained lawn and trees), consistent with current conditions (the former Club building and exterior basketball court and baseball diamond features were demolished in 2016).

The Phase II ESA included: 1) the advancement of four soil borings (PS-SB-1 through PS-SB-4), and (2) the collection of five soil samples and one duplicate soil sample. The soil samples were submitted for laboratory analyses of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polynuclear aromatic hydrocarbons (PNAs), Michigan Ten Metals,¹ arsenic, cadmium, chromium, lead, hexavalent chromium, and/or polychlorinated biphenyls (PCBs). Groundwater was not encountered during subsurface investigation activities.

The following table summarizes each REC, the site investigation activities performed to address each REC, and the laboratory parameters used to address each REC.

Summary of Investigation Activity

REC #	Environmental Concern	Investigation Activity	Analytical Parameters
1	Fill material on the southern portion of the subject property.	PS-SB-1 (1’-3’) Soil Duplicate (PS-SB-1, 1’-3’)	VOCs, SVOCs, Michigan Ten Metals, PCBs, and hexavalent chromium
2	Historical use of the southeastern adjoining property (206 N. Grove Street) as an oil distributor/bulk oil storage yard.	PS-SB-2 (17’-19’)	VOCs, SVOCs, Michigan Ten Metals, and hexavalent chromium
3	Historical use of the southern adjoining property (204 N. Park Street) as a coal storage yard and bulk oil and gasoline facility.	PS-SB-1 (10’-12’) PS-SB-3 (16’-18’)	VOCs, PNAs, arsenic, cadmium, chromium, lead, and hexavalent chromium
4	Current and historical use of the southern adjoining property (103 N. Grove Street) for industrial operations.	PS-SB-1 (10’-12’) PS-SB-2 (17’-19’)	VOCs, SVOCs, PNAs, Michigan Ten Metals, arsenic, cadmium, chromium, lead, and/or hexavalent chromium

¹ Michigan Ten Metals include arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, and zinc.

REC #	Environmental Concern	Investigation Activity	Analytical Parameters
5	Historical use of the western adjoining property (223 N. Park Street) as a coal storage yard.	PS-SB-4 (6'-8')	VOCs, PNAs, arsenic

The results of the investigation indicated the following:

- Arsenic was detected in the shallow subsurface soil sample and soil duplicate sample collected from soil boring location PS-SB-1, which was advanced in part to evaluate on-site fill material, at concentrations exceeding Part 201 Generic Residential Cleanup Criteria (RCC), including Groundwater Surface Water Interface Protection (GSIP) and Drinking Water Protection (DWP) criteria.
- Selenium was also detected in the shallow subsurface soil sample collected from soil boring location PS-SB-1, which was advanced in part to evaluate on-site fill material, at a concentration exceeding the Part 201 Generic GSIP cleanup criterion.
- Select PNAs were also detected in the shallow subsurface soil sample and soil duplicate sample collected from soil boring location PS-SB-1 at concentrations above analytical laboratory method detection limits (MDLs), but below Part 201 Generic RCC.

Based on the analytical laboratory results associated with the shallow soil sample and soil duplicate sample collected from soil boring location PS-SB-1, the subject property meets the definition of a “facility,” as defined in Part 201 of the Natural Resources and Environmental Protection Act, Michigan Public Act 451 of 1994, as amended (NREPA).

2.4.3 AKT Peerless’ September 2022 Phase I ESA

In September 2022, AKT Peerless completed a Phase I ESA of the subject on behalf of Renovare Ypsilanti Homes, LLC and City of Ypsilanti in accordance with USEPA Standards and Practices for AAI (40 CFR Part 312) and the scope and limitations of ASTM Standard Practice E 1527-21. This Phase I ESA also satisfied the good commercial and customary practices outlined in ASTM Standard Practice E 1527-13. At the time of the assessment, the subject property consisted of undeveloped, vegetated land (i.e., maintained lawn, trees) and was not used for a significant or obvious purpose.

The following REC was identified:

REC 1 - In September 2021, AKT Peerless completed a Phase II ESA of the subject property to evaluate RECs (i.e., one on-site REC and four off-site RECs) previously identified in AKT Peerless’ October 2015 Phase I ESA of the subject property. Soil contamination, including arsenic and selenium comingled with low-level PNAs, were identified in the soil sample collected to evaluate the on-site REC (i.e., surficial and shallow subsurface fill material of unknown origin) on the south-central portion of the subject property. (Contamination associated with the off-site RECs was not identified.) The concentrations of arsenic and selenium exceed Part 201 Generic RCC, thus qualifying the subject property as a “facility,” as defined in Part 201 of the NREPA. The “facility” status of the subject property therefore represents an REC.

2.4.4 G2’s July 2022 Report on Geotechnical Investigation

Following completion of AKT Peerless’ September 2022 Phase I ESA, AKT Peerless was provided a copy of a Report on Geotechnical Investigation prepared by G2 in July 2022 in connection with the proposed

redevelopment of the subject property with single- and multi-family residential dwellings by Renovare Ypsilanti Homes, LLC.

During the geotechnical investigation, G2 advanced 18 soil borings at the subject property (B-1 through B-18). Fill material was encountered in 14 of the 18 soil borings to maximum depths ranging from one to eight feet below ground surface (bgs). The fill material was underlain by native soils (e.g., sands, silts, clays). G2 recommended traditional spread and strip footings for the proposed residential dwellings, with footings extending through fill material, where present, to bear on the underlying native soils.

In consultation with Michigan Department of Environment, Great Lakes, and Energy (EGLE) Remediation and Redevelopment Division (RRD), the fill material encountered in four of the 14 geotechnical soil borings (i.e., B-1, B-10, B-12, and B-18) was determined to be environmentally suspect based on color, the presence of demolition debris, etc. Soil samples were not collected for laboratory analyses of environmental parameters during G2's geotechnical investigation.

A copy of G2's July 2022 Report on Geotechnical Investigation is provided as **Appendix A**. Copies of AKT Peerless' October 2015 Phase I ESA, September 2021 Phase II ESA, and September 2022 Phase I ESA have been provided under separate cover.

2.5 Summary of Environmental Conditions

As discussed in Section 2.4.2, soil contamination associated with on-site fill material of unknown origin was identified on the south-central portion of the subject property during AKT Peerless' September 2021 Phase II ESA. In addition, as discussed in Section 2.4.4, environmentally suspect fill material was encountered at four additional discrete soil boring locations during G2's July 2022 geotechnical investigation. To assist Renovare Ypsilanti Homes, LLC with Due Care compliance decisionmaking during the proposed redevelopment of the subject property, AKT Peerless, in consultation with EGLE RRD, therefore proposed further evaluation of the previously identified soil contamination on the south-central portion of the subject property (i.e., the PS-SB-1 delineation area) and the suspect fill material identified at geotechnical soil boring locations B-1, B-10, B-12, and B-18 (of which B-18 was incidentally located within the PS-SB-1 delineation area).

3.0 Supplemental Phase II Environmental Site Assessment Activities

The following sections summarize the supplemental subsurface investigation activities conducted by AKT Peerless at the subject property.

3.1 Scope of Assessment

To further evaluate the environmental conditions summarized in Section 2.5, AKT Peerless conducted a supplemental subsurface investigation at the subject property that included: (1) the advancement of 14 delineation soil borings in the area surrounding soil boring location PS-SB-1 (i.e., DB-1 through DB-14); (2) the advancement of one soil boring at each of the geotechnical soil boring locations in which suspect fill material was encountered (i.e., B-1-E, B-10-E, B-12-E, and B-18-E; B-18-E was incidentally located within the PS-SB-1 delineation area); (3) the collection of a total of 18 soil samples (i.e., one soil sample from each soil boring location); and (4) the laboratory analyses of each of the 18 soil samples for VOCs, SVOCs, Michigan Ten Metals, and PCBs.

The following table summarizes each environmental condition, the site investigation activities performed to address each environmental condition, and the laboratory parameters used to address each environmental condition.

Summary of Investigation Activity

Environmental Condition	Investigation Activity	Analytical Parameters
Soil contamination associated with on-site fill material of unknown origin on the south-central portion of the subject property (i.e., in the vicinity of soil boring location PS-SB-1)	DB-1, DB-2, DB-3, DB-4, DB-5, DB-6, DB-7, DB-8, DB-9, DB-10, DB-11, DB-12, DB-13, DB-14, and B-18-E	VOCs, SVOCs, Michigan Ten Metals, and PCBs
Suspect fill material previously identified in four geotechnical soil borings (i.e., B-1, B-10, B-12, and B-18)	B-1-E, B-10-E, B-12-E, and B-18-E	VOCs, SVOCs, Michigan Ten Metals, and PCBs

3.1.1 Soil Evaluation

On September 28, 2022, AKT Peerless advanced 18 soil borings at the subject property. AKT Peerless used hydraulic drive/direct-push (Geoprobe®) sampling techniques and followed the guidance outlined in ASTM Standard Practice E1903-19, *Standard Practice of Environmental Site Assessments: Phase II Environmental Site Assessment Process*. AKT Peerless collected continuous soil samples from the soil borings in five-foot intervals to the maximum depth explored of 13 feet bgs. AKT Peerless personnel inspected, field-screened, and logged the samples collected at each soil boring location.

Refer to Figure 2 for a site map with soil boring locations. Soil boring logs are provided in **Appendix B**.

3.1.2 Groundwater Evaluation

Groundwater was not encountered during AKT Peerless' supplemental subsurface investigation activities at the subject property.

3.2 Quality Assurance/Quality Control

To ensure the accuracy of data collected during supplemental subsurface investigation activities, AKT Peerless implemented proper quality assurance/quality control (QA/QC) measures. The QA/QC procedures included, but were not limited to, (1) decontamination of sampling equipment before and between sampling events, (2) calibration of field equipment, (3) documentation of field activities, and (4) sample preservation techniques.

3.2.1 Decontamination of Equipment

During sample collection, AKT Peerless adhered to proper decontamination procedures. Sampling equipment was decontaminated using the following methods to minimize potential cross-contamination of soil samples:

- Steam-cleaning or washing and scrubbing the equipment with non-phosphate detergent
- Rinsing the equipment
- Air-drying the equipment

3.2.2 Calibration of Field Equipment

During AKT Peerless’ supplemental subsurface investigation, a photoionization detector (PID) was used to screen all soil samples. The PID was maintained in a calibrated condition using 100 parts per million (ppm) isobutylene span gas prior to supplemental subsurface investigation activities.

3.2.3 Documentation of Activities

During AKT Peerless’ supplemental subsurface investigation activities, subject property conditions (i.e., soil boring locations, weather conditions) were documented. AKT Peerless visually inspected soil samples and prepared a geologic log for each soil boring. The logs include soil characteristics such as (1) color, (2) composition (e.g., sand, clay, gravel), (3) soil moisture and water table depth, and (4) signs of possible contamination (i.e., stained or discolored soil, odors). Soil types were classified in accordance with ASTM Standard Practice D-2488, *Unified Soil Classification System*. All soil samples were delivered to ALS Group, USA’s analytical laboratory in Holland, Michigan under chain-of-custody documentation.

Refer to Figure 2 for a site map with soil boring locations. Soil boring logs are provided in **Appendix B**.

3.2.4 Sample Preservation Techniques

AKT Peerless collected soil samples according to USEPA Publication SW-846, *Test Methods for Evaluating Solid Waste*. Soil samples were collected in laboratory-supplied containers, stored on ice or at approximately four degrees Celsius, and submitted under chain-of-custody documentation.

Soil samples collected for VOCs analyses were field preserved with methanol in accordance with USEPA Method 5035. Soil samples collected for SVOCs, Michigan Ten Metals, and PCBs analyses were stored in unpreserved, four-ounce wide-mouth jars.

3.3 Laboratory Analysis and Methods

AKT Peerless submitted 18 soil samples for laboratory analyses. The following table summarizes the location, depth, matrix, and laboratory analyses for each sample.

Sample Collection Summary

Sample Identification	Sample Matrix	Soil Sample Interval (feet bgs)	Analytical Laboratory Parameter(s)
DB-1	Soil	1’-3’	VOCs, SVOCs, Michigan Ten Metals, PCBs
DB-2	Soil	2’-4’	VOCs, SVOCs, Michigan Ten Metals, PCBs
DB-3	Soil	1’-3’	VOCs, SVOCs, Michigan Ten Metals, PCBs
DB-4	Soil	1’-3’	VOCs, SVOCs, Michigan Ten Metals, PCBs
DB-5	Soil	2’-4’	VOCs, SVOCs, Michigan Ten Metals, PCBs
DB-6	Soil	2’-4’	VOCs, SVOCs, Michigan Ten Metals, PCBs
DB-7	Soil	4’-6’	VOCs, SVOCs, Michigan Ten Metals, PCBs

Sample Identification	Sample Matrix	Soil Sample Interval (feet bgs)	Analytical Laboratory Parameter(s)
DB-8	Soil	4'-6'	VOCs, SVOCs, Michigan Ten Metals, PCBs
DB-9	Soil	2'-4'	VOCs, SVOCs, Michigan Ten Metals, PCBs
DB-10	Soil	2'-4'	VOCs, SVOCs, Michigan Ten Metals, PCBs
DB-11	Soil	3'-5'	VOCs, SVOCs, Michigan Ten Metals, PCBs
DB-12	Soil	3'-5'	VOCs, SVOCs, Michigan Ten Metals, PCBs
DB-13	Soil	1'-3'	VOCs, SVOCs, Michigan Ten Metals, PCBs
DB-14	Soil	1'-3'	VOCs, SVOCs, Michigan Ten Metals, PCBs
B-1-E	Soil	1'-3'	VOCs, SVOCs, Michigan Ten Metals, PCBs
B-10-E	Soil	1'-3'	VOCs, SVOCs, Michigan Ten Metals, PCBs
B-12-E	Soil	2'-4'	VOCs, SVOCs, Michigan Ten Metals, PCBs
B-18-E	Soil	2'-4'	VOCs, SVOCs, Michigan Ten Metals, PCBs

The laboratory analyzed the samples for (1) VOCs in accordance with USEPA Method 8260C; (2) SVOCs in accordance with USEPA Method 8270D; (3) Michigan Ten Metals in accordance with USEPA Methods 6020B and 7471B; and PCBs in accordance with USEPA Method 8082A.

4.0 Evaluation and Presentation of Results

4.1 Subsurface Conditions

The following sections summarize the physical soil and groundwater conditions at the subject property.

4.1.1 Soil and Groundwater Conditions based on Published Material

According to the United States Department of Agriculture (USDA) Soil Conservation Service's (SCS) publication, *Soil Survey of Washtenaw County, Michigan*, the soil in the area of the subject property consists of the Spinks-Boyer-Wasepi association, described as "nearly level to moderately steep, well drained and somewhat poorly drained soils that have a coarse textured or moderately coarse textured subsoil and coarse textured underlying material; on outwash plains, terraces, lake plains, and deltas." Photo Sheet 34 of the soil survey depicts the subject property within an area described as "Boyer loamy sand."

According to the Michigan Department of Natural Resources (MDNR) Geological Survey Division's publication, *Quaternary Geology of Southern Michigan*, the soil in the area of the subject property consists of lacustrine sand and gravel, described as pale brown to pale reddish brown, fine to medium sand, commonly including beds or lenses of small gravel, chiefly quartz sand but gravel is rich in igneous and metamorphic rocks. These soils occur chiefly as former beach and near-offshore littoral deposits of

glacial Great Lakes and may include intercalated lacustrine clay. Locally veneered by discontinuous sheets or small dunes of eolian sand and may include areas of organic soils. In the eastern part of the northern peninsula of Michigan these sands commonly grade upstream (north- or northwest- ward) into outwash deposits. Soil thickness ranges from three to 100 feet. Typically, lacustrine sand and gravel are associated with moderate hydraulic permeability and may allow the movement of contaminants through groundwater.

With the exception of fill material encountered at various soil boring locations at the subject property, native soils encountered at the subject property are generally consistent with the descriptions of the Spinks-Boyer-Wasepi association and lacustrine sand and gravel. While AKT Peerless did not previously identify groundwater during subsurface investigation activities at the subject property, G2 reported shallow groundwater at 15 out of 18 geotechnical soil boring locations at depths ranging from two feet bgs to 19 feet bgs; with the exception of the shallow groundwater encountered at geotechnical soil boring locations B-4 (western portion of subject property), B-14 (southeastern portion of subject property), and B-18 (south-central portion of subject property), subsurface conditions were reported as “wet cave” or “dry” following removal of the auger. Groundwater depths observed at geotechnical soil boring locations B-4, B-14, and B-18 following removal of the auger was between 7.5 feet bgs and 13.5 feet bgs.

4.1.2 Soil and Groundwater Conditions based on Field Observations

During supplemental subsurface investigation activities at the subject property, AKT Peerless encountered topsoil, shallow subsurface sands/silts/clays and/or fill material (e.g., disturbed soils, soil matrices containing concrete, brick, etc.), and native sands/silts/clays. Fill material was encountered at depths of up to nine feet bgs at certain soil boring locations and was generally underlain by native sands/clays/gravels extending to at least 13 feet bgs, the maximum depth explored. Groundwater was not encountered during supplemental subsurface investigation activities.

With the exception of fill material, subsurface soils at the property are consistent with the description of lacustrine sand and gravel, as described in *Quaternary Geology of Southern Michigan*.

Refer to Figure 2 for a site map with soil boring locations. Refer to **Appendix B** for AKT Peerless’ soil boring logs.

4.2 Analytical Laboratory Results

AKT Peerless collected soil samples from the subject property to further evaluate the findings of previous environmental and geotechnical investigations. As appropriate, analytical results were compared to Part 201 Generic RCC provided in Michigan Administrative Rules 299.1 through 299.50.

4.2.1 Soil Analytical Results

AKT Peerless submitted 18 soil samples for laboratory analysis of VOCs, SVOCs, Michigan Ten Metals, and PCBs. The results of the laboratory analyses of the soil samples are summarized in the table below:

Summary of Soil Analytical Results

Parameter	Chemical Abstract Service (CAS) Number	Sample Identification with Criteria Exceedance (depth)	Part 201 Generic RCC Exceeded/Established Criteria (µg/kg)	Maximum Concentration (µg/kg)/Sample Location
Arsenic	7440-38-2	DB-1 (1'-3') DB-2 (2'-4') DB-3 (1'-3') DB-4 (1'-3') DB-5 (2'-4') DB-6 (2'-4') DB-7 (4'-6') DB-8 (4'-6') DB-9 (2'-4') DB-10 (2'-4') DB-11 (3'-5') DB-14 (1'-3') B-12-E (2'-4') B-18-E (2'-4')	DWP / 4,600 GSIP / 4,600 DC / 7,600	12,000 / DB-10, B-18-E
Barium	7440-39-3	B-18-E (2'-4')	DWP / 1,300,000	2,200,000 / B-18-E
Chromium, total	7440-47-3	DB-1 (1'-3') DB-2 (2'-4') DB-3 (1'-3') DB-4 (1'-3') DB-5 (2'-4') DB-6 (2'-4') DB-7 (4'-6') DB-8 (4'-6') DB-9 (2'-4') DB-10 (2'-4') DB-11 (3'-5') DB-12 (3'-5') DB-13 (1'-3') DB-14 (1'-3') B-1-E (1'-3') B-10-E (1'-3') B-12-E (2'-4') B-18-E (2'-4')	GSIP / 3,300	28,000 / B-18-E
Lead	7439-92-1	B-18-E (2'-4')	DWP / 700,000 DC / 400,000	31,000,000 / B-18-E

Parameter	Chemical Abstract Service (CAS) Number	Sample Identification with Criteria Exceedance (depth)	Part 201 Generic RCC Exceeded/Established Criteria (µg/kg)	Maximum Concentration (µg/kg)/Sample Location
Mercury	7439-97-6	DB-4 (1'-3') DB-7 (4'-6') DB-8 (4'-6') DB-9 (2'-4') DB-10 (2'-4') B-1-E (1'-3') B-10-E (1'-3') B-18-E (2'-4')	GSIP / 50	230 / B-18-E
Selenium	7782-49-2	DB-1 (1'-3') DB-2 (2'-4') DB-3 (1'-3') DB-5 (2'-4') DB-7 (4'-6') DB-8 (4'-6') DB-10 (2'-4') DB-13 (1'-3') DB-14 (1'-3') B-1-E (1'-3') B-10-E (1'-3') B-12-E (2'-4')	GSIP / 400	2,100 / B-10-E
Silver	7440-22-4	B-18-E (2'-4')	GSIP / 100	3,500 / B-18-E
Zinc	7440-66-6	B-18-E (2'-4')	DWP / 2,400,000	2,700,000 / B-18-E
Acenaphthylene	208-96-8	DB-12 (3'-5')	GSIP / 5,900	6,400 / DB-12
Benzo(a)anthracene	56-55-3	DB-12 (3'-5')	DC / 20,000	27,000 / DB-12
Benzo(a)pyrene	50-32-8	DB-10 (2'-4') DB-11 (3'-5') DB-12 (3'-5')	DC / 2,000	31,000 / DB-12
Benzo(b)fluoranthene	205-99-2	DB-12 (3'-5')	DC / 20,000	33,000 / DB-12
Carbazole	86-74-8	DB-12 (3'-5')	GSIP / 1,100	1,800 / DB-12
Dibenzo(a,h)anthracene	53-70-3	DB-12 (3'-5')	DC / 2,000	3,400 / DB-12
Fluoranthene	206-44-0	DB-10 (2'-4') DB-11 (3'-5') DB-12 (3'-5')	GSIP / 5,500	48,000 / DB-12
Naphthalene	91-20-3	DB-10 (2'-4') DB-12 (3'-5')	GSIP / 730	2,400 / DB-12

Parameter	Chemical Abstract Service (CAS) Number	Sample Identification with Criteria Exceedance (depth)	Part 201 Generic RCC Exceeded/Established Criteria (µg/kg)	Maximum Concentration (µg/kg)/Sample Location
Phenanthrene	85-01-8	DB-10 (2'-4') DB-11 (3'-5') DB-12 (3'-5')	GSIP / 2,100	31,000 / DB-12

Notes:

Sample identification: LETTER-# / LETTER-#-LETTER indicates soil boring location and (#-#) indicates sample depth interval in feet bgs.

µg/kg – micrograms per kilogram

DC – Direct Contact Cleanup Criteria

In addition to the target parameters identified in the table above, cadmium, copper, acenaphthene, anthracene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzofuran, fluorene, indeno(1,2,3-cd)pyrene, 2-methylnaphthalene, bis-2(ethylhexyl)phthalate, pyrene, and xylenes were detected in one or more soil samples collected from the subject property at concentrations above analytical laboratory MDLs, but below Part 201 Generic RCC.

Refer to Figure 3 for a site map with soil analytical results exceeding Part 201 Generic RCC. Refer to Table 1 for a summary of soil analytical results. Refer to **Appendix C** for a complete analytical laboratory report.

5.0 Summary, Conclusions, and Recommendations

The following sections summarize the supplemental subsurface investigation conducted by AKT Peerless at the subject property.

5.1 Summary of Environmental Conditions

Based on the results of AKT Peerless' September 2021 Phase II ESA and G2's July 2022 Report on Geotechnical Investigation, the following environmental conditions were identified:

- Soil contamination associated with on-site fill material of unknown origin on the south-central portion of the subject property (i.e., in the vicinity of soil boring location PS-SB-1)
- Suspect fill material previously identified in four geotechnical soil borings (i.e., B-1, B-10, B-12, and B-18)

5.2 Summary of Supplemental Subsurface Investigation

On September 28, 2022, AKT Peerless conducted a supplemental subsurface investigation at the subject property to further evaluate environmental conditions identified during previous environmental and geotechnical investigations. AKT Peerless (1) advanced 18 soil borings, and (2) collected 18 soil samples for laboratory analyses of VOCs, SVOCs, Michigan Ten Metals, and PCBs.

5.3 Conclusions

AKT Peerless conducted soil sampling based on the results of previous environmental and geotechnical investigations at the subject property. The results of the supplemental subsurface investigation indicate the following:

- Arsenic, barium, chromium (total), lead, mercury, selenium, silver, and/or zinc were detected in soil samples collected from one or more of the soil borings advanced within the PS-SB-1 delineation area on the south-central portion of the subject property (i.e., DB-1 through DB-14 and B-18-E) at concentrations exceeding Part 201 Generic RCC. In addition, acenaphthylene, benzo(a)anthracene, benzo(b)pyrene, benzo(b)fluoranthene, carbazole, dibenzo(a,h)anthracene, fluoranthene, naphthalene, and/or phenanthrene were detected in soil samples collected from select soil borings advanced within the PS-SB-1 delineation area (i.e., DB-10, DB-11, DB-12) at concentrations exceeding Part 201 Generic RCC. The concentrations of arsenic, lead, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene detected in select soil samples collected from the PS-SB-1 delineation area on the south-central portion of the subject property exceed Part 201 Generic RCC for DC; otherwise, the target parameters listed above were detected at concentrations exceeding Part 201 Generic RCC for DWP and/or GSIP.
- Arsenic, chromium (total), mercury, and/or selenium were detected in the soil borings advanced to replicate geotechnical soil boring locations outside of the PS-SB-1 delineation area on the south-central portion of the subject property (i.e., B-1-E, B-10-E, and B-12-E) at concentrations exceeding Part 201 Generic RCC for DWP and/or GSIP. No target parameters were detected at concentrations exceeding Part 201 Generic RCC for DC in soil samples collected from soil borings advanced outside of the PS-SB-1 delineation area on the south-central portion of the subject property.

Based on analytical laboratory results, the subject property meets the definition of a “facility,” as defined in Part 201 of the NREPA.

5.4 Recommendations

AKT Peerless recommends any future owner(s)/operator(s) prepare a BEA. Section 26(1)(c) of Part 201 provides certain liability protections to a person who becomes an owner or operator of a “facility” on, or after, June 5, 1995 if they comply with both of the following, or unless other defenses apply: a BEA is conducted prior to or within 45 days after the earlier of the date of purchase, occupancy, or foreclosure, and the owner or operator discloses the results of the BEA to EGLE RRD and subsequent purchaser or transferee.

In addition, because the subject property meets the definition of a facility, AKT Peerless recommends conducting a Section 20107(a) Compliance Analysis to assure compliance with Due Care obligations. Due Care obligations include:

- Undertaking measures to prevent exacerbation of existing contamination.
- Exercising Due Care by undertaking response activities to mitigate unacceptable exposure to hazardous substances, mitigate fire and explosion hazards due to hazardous substances, and allow for the intended use of the subject property in a manner that protects health and safety.
- Taking reasonable precautions against the reasonably foreseeable acts or omissions of a third party and the consequences that could result from those acts or omissions.

- Provide notifications to EGLE and others in regard to mitigating fire and explosions hazards, discarded or abandoned containers, contamination migrating beyond property boundaries, as applicable.
- Comply with any land use or resource use restrictions established or relied on in connection with the response activities at the facility.
- Not impede the effectiveness or integrity of any land use or resource restriction employed at the facility in connection with response activities.

6.0 Limitations

The information and opinions obtained in this report are for the exclusive use of Renovare Ypsilanti Homes, LLC. No distribution to or reliance by other parties may occur without the express written permission of AKT Peerless. AKT Peerless will not distribute this report without your written consent or as required by law or by a Court order. The information and opinions contained in the report are given in light of that assignment. The report must be reviewed and relied upon only in conjunction with the terms and conditions expressly agreed upon by the parties and as limited therein. Any third parties who have been extended the right to rely on the contents of this report by AKT Peerless (which is expressly required prior to any third-party release), expressly agrees to be bound by the original terms and conditions entered into by AKT Peerless and Renovare Ypsilanti Homes, LLC.

Subject to the above and the terms and conditions, AKT Peerless accepts responsibility for the competent performance of its duties in executing the assignment and preparing reports in accordance with the normal standards of the profession, but disclaims any responsibility for consequential damages. Although AKT Peerless believes that results contained herein are reliable, AKT Peerless cannot warrant or guarantee that the information provided is exhaustive or that the information provided by Renovare Ypsilanti Homes, LLC or third parties is complete or accurate.

7.0 Signatures of Environmental Professionals

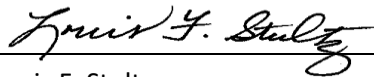
The following individuals contributed to the completion of this report.



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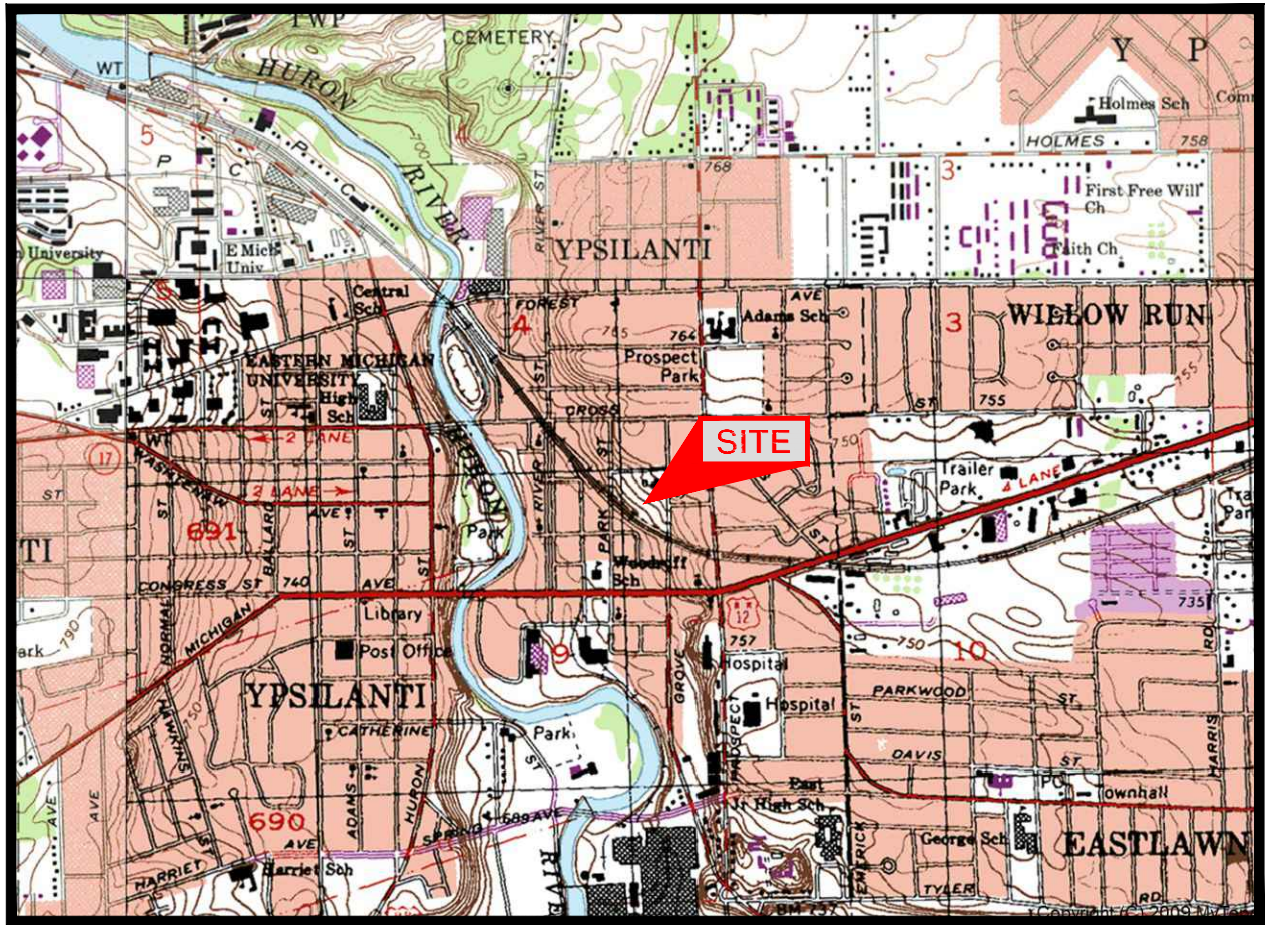
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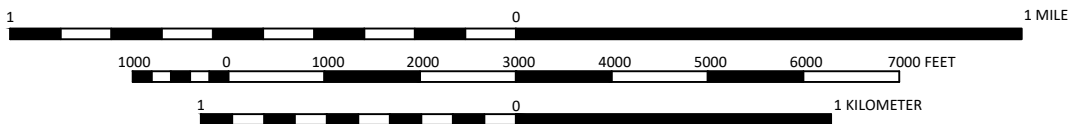
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FIGURES

YPSILANTI EAST QUADRANGLE
 MICHIGAN - WASHTENAW COUNTY
 7.5 MINUTE SERIES (TOPOGRAPHIC)



T.3 S.-R.7 E.



MICHIGAN
 QUADRANGLE LOCATION



IMAGE TAKEN FROM 1996 U.S.G.S. TOPOGRAPHIC MAP



TOPOGRAPHIC LOCATION MAP

220 N. PARK STREET
 YPSILANTI, MICHIGAN
 PROJECT NUMBER : 10627F3-1-20

DRAWN BY: MST
 DATE: 11/03/2022

FIGURE 1



GREAT LAKES DESIGN, LLC
301 N. PARK STREET

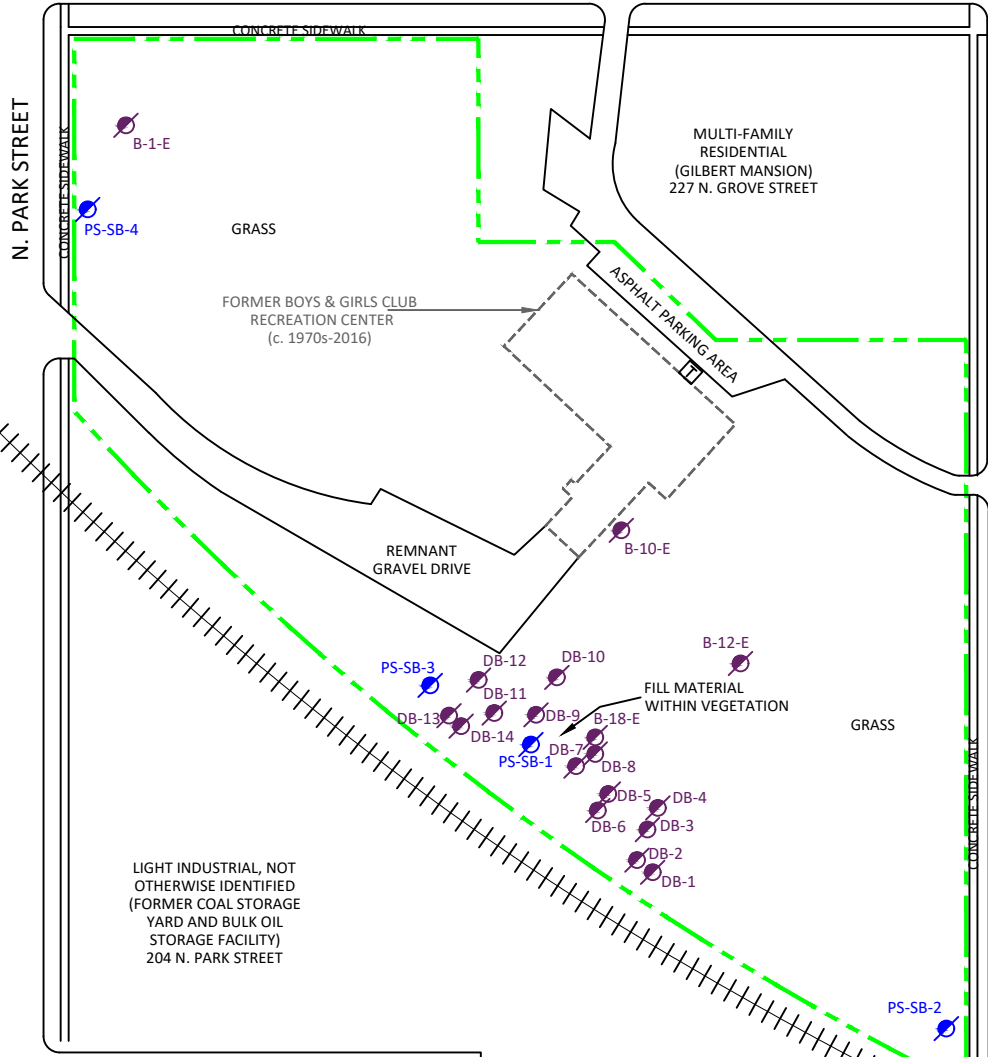
SINGLE-FAMILY RESIDENTIAL
302 N. PARK STREET

SINGLE-FAMILY RESIDENTIAL
313 HIGH STREET

SINGLE-FAMILY RESIDENTIAL
315 HIGH STREET

HIGH STREET

UNDEVELOPED LAND,
REMNANT PAVED
PARKING LOT
(FORMER COAL
STORAGE LOT)
223 N. PARK STREET



SINGLE-FAMILY RESIDENTIAL
209-213 N. PARK STREET

MULTI-FAMILY RESIDENTIAL
(GILBERT MANSION)
227 N. GROVE STREET

SINGLE-FAMILY RESIDENTIAL
216 N. GROVE STREET

N. GROVE STREET

LOCUST STREET

SINGLE-FAMILY RESIDENTIAL
410 LOCUST STREET

SINGLE-FAMILY RESIDENTIAL
214 N. GROVE STREET
SINGLE-FAMILY RESIDENTIAL
212 N. GROVE STREET

LIGHT INDUSTRIAL, NOT
OTHERWISE IDENTIFIED
(FORMER COAL STORAGE
YARD AND BULK OIL
STORAGE FACILITY)
204 N. PARK STREET

SINGLE-FAMILY RESIDENTIAL
208 N. GROVE STREET
UNDEVELOPED LAND,
REMNANT PAVED
PARKING LOT
(FORMER LIGHT
INDUSTRIAL AND
OIL STORAGE)
(BEA, SHWS, UST, RCRA
NON-GEN, WDS,
FIND/FRS)
206 N. GROVE STREET

LEGEND

- = PROPERTY LINE
- = RAILROAD LINE
- = PAD MOUNTED TRANSFORMER
- = SOIL BORING, JULY 2022
- = SOIL BORING, SEPTEMBER 2022

MARSH PLATING
(FORMER FOUNDRY & MANUFACTURING)
103 N. GROVE STREET
(CERCLIS NFRAP, RCRA TSD, RCRA LQG,
UST, AST, DESLISTED TANK, WDS)

NORTH STREET

SITE MAP WITH SOIL BORING LOCATIONS

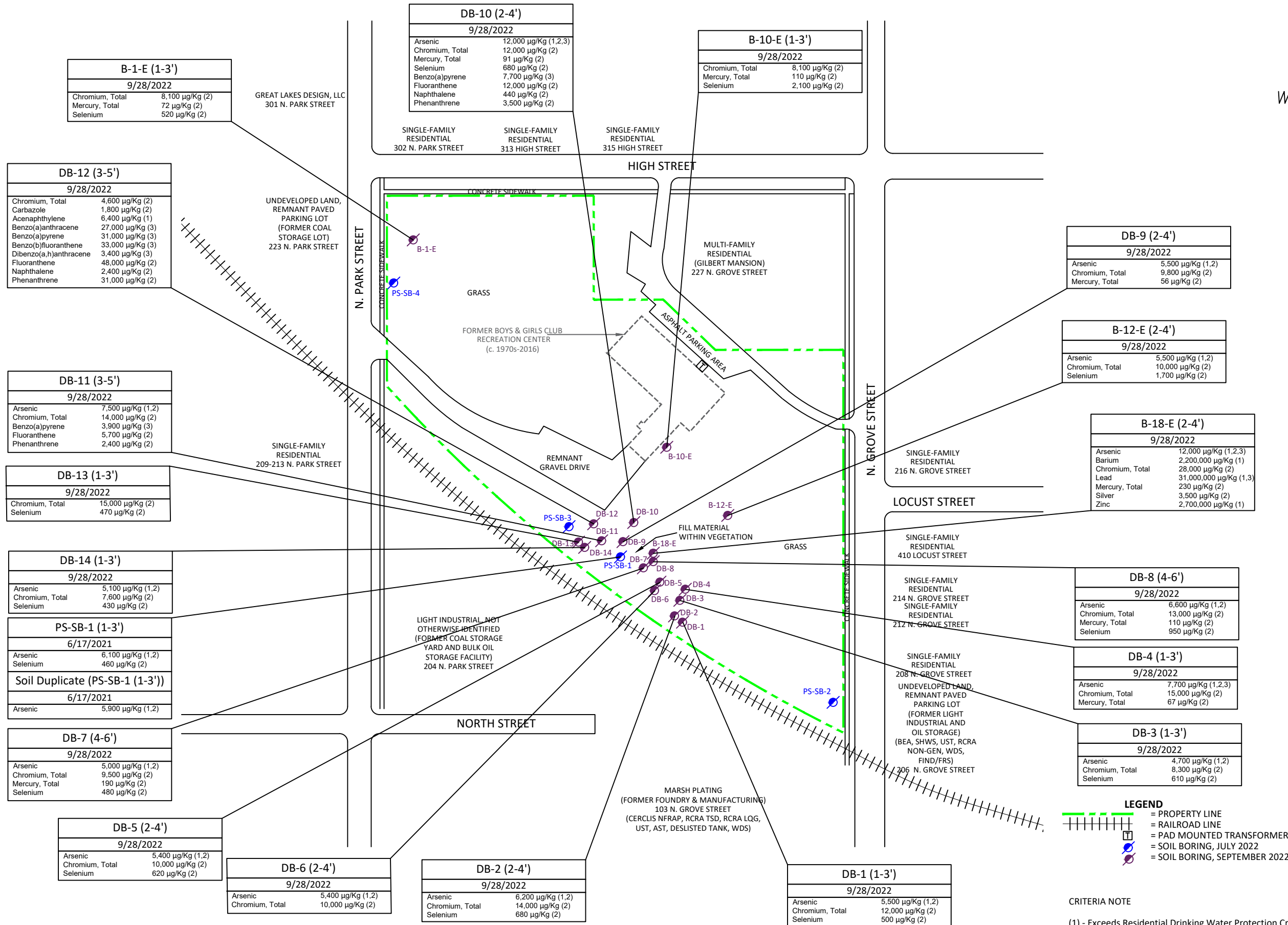
220 N. PARK STREET
YPSILANTI, MICHIGAN
PROJECT NUMBER: 10627F3-1-20

DRAWN BY: MST/OGO
DATE: 11/03/2022

0 60 120
SCALE: 1" = 120'

FIGURE 2





DRAWN BY: OGO
DATE: 11/03/2022

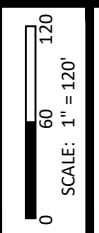


FIGURE 3

SITE MAP WITH SOIL ANALYTICAL RESULTS EXCEEDING PART 201 GENERIC RCC

220 N. PARK STREET
YPSILANTI, MICHIGAN
PROJECT NUMBER: 10627F3-1-20

- LEGEND**
- = PROPERTY LINE
 - = RAILROAD LINE
 - = PAD MOUNTED TRANSFORMER
 - = SOIL BORING, JULY 2022
 - = SOIL BORING, SEPTEMBER 2022

- CRITERIA NOTE**
- (1) - Exceeds Residential Drinking Water Protection Criteria
 - (2) - Exceeds Groundwater Surface Water Interface Protection Criteria
 - (3) - Exceeds Residential Direct Contact Criteria



TABLES

Table 1: Summary of Soil Analytical Results
220 N. Park Street
Ypsilanti, Michigan
AKT Peerless Project No. 10627F3-1-20

Parameters <small>(Refer to detailed laboratory report for method reference data)</small>	Chemical Abstract Service (CAS) Number	Statewide Default Background Levels (SDBLs)	Residential Drinking Water Protection (DWP) Criteria	Groundwater Surface Water Interface Protection (GSIP) Criteria	Residential Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Residential Infinite Source Volatile Soil Inhalation Criteria (VSIC)	Residential Particulate Soil Inhalation Criteria (PSIC)	Residential Direct Contact (DC) Criteria	Soil Saturation Concentration (C _{SAT}) Screening Levels	Maximum Concentration Detected	Sample Location	PS-SB-1	Soil Duplicate (PS-SB-1)	DB-1	DB-2	DB-3	DB-4	DB-5	DB-6	
											Collection Date	6/17/2021	6/17/2021	9/28/2022	9/28/2022	9/28/2022	9/28/2022	9/28/2022	9/28/2022	
											Depth	1'-3'	1'-3'	1'-3'	2'-4'	1'-3'	1'-3'	2'-4'	2'-4'	
		µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Metals																				
Arsenic	7440-38-2	5,800	4,600	4,600	NLV	NLV	7.20E+05	7,600	NA	12,000		6,100	5,900	5,500	6,200	4,700	7,700	5,400	5,400	
Barium (B)	7440-39-3	75,000	1,300,000	(G)	NLV	NLV	3.30E+08	3.70E+07	NA	2,200,000		41,000	44,000	40,000	60,000	37,000	86,000	41,000	42,000	
Cadmium (B)	7440-43-9	1,200	6,000	(G,X)	NLV	NLV	1.70E+06	5.50E+05	NA	5,500		230	230	<200	210	<200	<200	<200	<200	
Chromium, Total	7440-47-3	18,000 (total)	30,000	3,300	NLV	NLV	2.60E+05	2.50E+06	NA	28,000		-	-	12,000	14,000	8,300	15,000	10,000	10,000	
Chromium III (B,H)	16065-83-1	18,000 (total)	1.0E+9 (D)	(G,X)	NLV	NLV	3.3E+8	7.9E+8	NA	13,000		9,400	12,000	NS	NS	NS	NS	NS	NS	
Chromium VI	18540-29-9	NA	30,000	3,300	NLV	NLV	2.6E+5	2.5E+6	NA	BDL		<2,000	<2,000	NS	NS	NS	NS	NS	NS	
Copper (B)	7440-50-8	32,000	5.80E+06	(G)	NLV	NLV	1.30E+08	2.00E+07	NA	110,000		13,000	14,000	17,000	18,000	9,800	17,000	12,000	11,000	
Lead (B)	7439-92-1	21,000	700,000	(G,X)	NLV	NLV	1.00E+08	400,000	NA	31,000,000		32,000	32,000	140,000	68,000	17,000	19,000	28,000	12,000	
Mercury, Total	7439-97-6	130	1,700	50 (M); 1.2	48,000	52,000	2.00E+07	1.60E+05	NA	230		<50	<50	<50	<50	<50	67	<50	<50	
Selenium (B)	7782-49-2	410	4,000	400	NLV	NLV	1.30E+08	2.60E+06	NA	2,100		460	<400	500	680	610	<450	620	370	
Silver (B)	7440-22-4	1,000	4,500	100 (M); 27	NLV	NLV	6.70E+06	2.50E+06	NA	3,500		<430	<400	<480	<370	<410	<450	<440	<350	
Zinc (B)	7440-66-6	47,000	2,400,000	(G)	NLV	NLV	ID	1.70E+08	NA	2,700,000		44,000	45,000	50,000	52,000	32,000	53,000	42,000	35,000	
Polychlorinated Biphenyls (PCBs)																				
Polychlorinated biphenyls (PCBs) (J,T)	1336-36-3	NA	NLL	NLL	3.00E+06	2.40E+05	5.20E+06	1,000 (T)	NA	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Semivolatile Organic Compounds (SVOCs)																				
Carbazole	86-74-8	NA	9,400	1,100	NLV	NLV	6.20E+07	5.30E+05	NA	1,800		<330	<330	<330	<330	<330	<330	<330	<330	
Dibenzofuran	132-64-9	NA	ID	1,700	2.00E+06	1.30E+05	6.70E+06	ID	NA	1,700		<330	<330	<330	<330	<330	<330	<330	<330	
bis(2-Ethylhexyl)phthalate	117-81-7	NA	NLL	NLL	NLV	NLV	7.0E+8	2.8E+6	1.0E+7	750		<330	<330	<330	<330	<330	<330	<330	<330	
Remaining SVOCs	Various	-	-	-	-	-	-	-	-	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Polynuclear Aromatic Hydrocarbons (PNAs)																				
Acenaphthene	83-32-9	NA	3.00E+05	8,700	1.90E+08	8.10E+07	1.40E+10	4.10E+07	NA	330		<330	<330	<330	<330	<330	<330	<330	<330	
Acenaphthylene	208-96-8	NA	5,900	ID	1.60E+06	2.20E+06	2.30E+09	1.60E+06	NA	6,400		<330	<330	<330	<330	<330	<330	<330	<330	
Anthracene	120-12-7	NA	41,000	ID	1.0E+9 (D)	1.40E+09	6.70E+10	2.30E+08	NA	8,000		<330	<330	<330	<330	<330	<330	<330	<330	
Benzo(a)anthracene (Q)	56-55-3	NA	NLL	NLL	NLV	NLV	ID	20,000	NA	27,000		360	<330	<330	<330	<330	<330	450	<330	
Benzo(a)pyrene (Q)	50-32-8	NA	NLL	NLL	NLV	NLV	1.50E+06	2,000	NA	31,000		370	<330	<330	<330	<330	<330	500	<330	
Benzo(b)fluoranthene (Q)	205-99-2	NA	NLL	NLL	ID	ID	ID	20,000	NA	33,000		540	470	<330	<330	350	<330	550	<330	
Benzo(g,h,i)perylene	191-24-2	NA	NLL	NLL	NLV	NLV	8.00E+08	2.50E+06	NA	18,000		<330	<330	<330	<330	<330	<330	<330	<330	
Benzo(k)fluoranthene (Q)	207-08-9	NA	NLL	NLL	NLV	NLV	ID	2.00E+05	NA	11,000		<330	<330	<330	<330	<330	<330	<330	<330	
Chrysene (Q)	218-01-9	NA	NLL	NLL	ID	ID	ID	2.00E+06	NA	25,000		390	<330	<330	<330	<330	<330	410	<330	
Dibenzo(a,h)anthracene (Q)	53-70-3	NA	NLL	NLL	NLV	NLV	ID	2,000	NA	3,400		<330	<330	<330	<330	<330	<330	<330	<330	
Fluoranthene	206-44-0	NA	7.30E+05	5,500	1.0E+9 (D)	7.40E+08	9.30E+09	4.60E+07	NA	48,000		610	470	<330	<330	450	<330	950	<330	
Fluorene	86-73-7	NA	3.90E+05	5,300	5.80E+08	1.30E+08	9.30E+09	2.70E+07	NA	3,100		<330	<330	<330	<330	<330	<330	<330	<330	
Indeno(1,2,3-cd)pyrene (Q)	193-39-5	NA	NLL	NLL	NLV	NLV	ID	20,000	NA	20,000		<330	<330	<330	<330	<330	<330	340	<330	
2-Methylnaphthalene	91-57-6	NA	57,000	4,200	2.70E+06	1.50E+06	6.70E+08	8.10E+06	NA	890		<330	<330	<330	<330	<330	<330	<330	<330	
Naphthalene	91-20-3	NA	35,000	730	2.50E+05	3.00E+05	2.00E+08	1.60E+07	NA	2,400		<330	<330	<330	<330	<330	<330	<330	<330	
Phenanthrene	85-01-8	NA	56,000	2,100	2.80E+06	1.60E+05	6.70E+06	1.60E+06	NA	31,000		<330	<330	<330	<330	<330	<330	440	<330	
Pyrene	129-00-0	NA	4.80E+05	ID	1.0E+9 (D)	6.50E+08	6.70E+09	2.90E+07	NA	51,000		520	540	<330	<330	390	<330	830	<330	
Volatile Organic Compounds (VOCs)																				
Xylenes (I)	1330-20-7	NA	5,600	980	6.3E+6 (C)	4.60E+07	2.90E+11	4.1E+8 (C)	1.50E+05	69		<150	<150	<150	59	<150	<150	<150	<150	
Remaining VOCs	Various	-	-	-	-	-	-	-	-	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	

*Concentration detected does not exceed SDBL for native soils.

Table 1: Summary of Soil Analytical Results
220 N. Park Street
Ypsilanti, Michigan
AKT Peerless Project No. 10627F3-1-20

Parameters <i>(Refer to detailed laboratory report for method reference data)</i>	Chemical Abstract Service (CAS) Number	Statewide Default Background Levels (SDBLs)	Residential Drinking Water Protection (DWP) Criteria	Groundwater Surface Water Interface Protection (GSIP) Criteria	Residential Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Residential Infinite Source Volatile Soil Inhalation Criteria (VSIC)	Residential Particulate Soil Inhalation Criteria (PSIC)	Residential Direct Contact (DC) Criteria	Soil Saturation Concentration (C _{SAT}) Screening Levels	Maximum Concentration Detected	Sample Location	DB-7	DB-8	DB-9	DB-10	DB-11	DB-12	DB-13	DB-14			
											Collection Date	9/28/2022	9/28/2022	9/28/2022	9/28/2022	9/28/2022	9/28/2022	9/28/2022	9/28/2022	9/28/2022		
											Depth	4'-6'	4'-6'	2'-4'	2'-4'	3'-5'	3'-5'	1'-3'	1'-3'			
		µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg		
Metals																						
Arsenic	7440-38-2	5,800	4,600	4,600	NLV	NLV	7.20E+05	7,600	NA	12,000		5,000	6,600	5,500	12,000	7,500	2,000	4,200	5,100			
Barium (B)	7440-39-3	75,000	1,300,000	(G)	NLV	NLV	3.30E+08	3.70E+07	NA	2,200,000		50,000	210,000	40,000	120,000	70,000	21,000	38,000	26,000			
Cadmium (B)	7440-43-9	1,200	6,000	(G,X)	NLV	NLV	1.70E+06	5.50E+05	NA	5,500		<200	450	<200	380	<200	280	<200	<200			
Chromium, Total	7440-47-3	18,000 (total)	30,000	3,300	NLV	NLV	2.60E+05	2.50E+06	NA	28,000		9,500	13,000	9,800	12,000	14,000	4,600	15,000	7,600			
Chromium III (B,H)	16065-83-1	18,000 (total)	1.0E+9 (D)	(G,X)	NLV	NLV	3.3E+8	7.9E+8	NA	13,000		NS	NS	NS	NS	NS	NS	NS	NS			
Chromium VI	18540-29-9	NA	30,000	3,300	NLV	NLV	2.6E+5	2.5E+6	NA	BDL		NS	NS	NS	NS	NS	NS	NS	NS			
Copper (B)	7440-50-8	32,000	5.80E+06	(G)	NLV	NLV	1.30E+08	2.00E+07	NA	110,000		12,000	22,000	11,000	14,000	17,000	15,000	15,000	13,000			
Lead (B)	7439-92-1	21,000	700,000	(G,X)	NLV	NLV	1.00E+08	400,000	NA	31,000,000		45,000	210,000	18,000	200,000	23,000	95,000	10,000	21,000			
Mercury, Total	7439-97-6	130	1,700	50 (M); 1.2	48,000	52,000	2.00E+07	1.60E+05	NA	230		190	110	56	91	<50	<50	<50	<50			
Selenium (B)	7782-49-2	410	4,000	400	NLV	NLV	1.30E+08	2.60E+06	NA	2,100		480	950	<380	680	<420	<360	470	430			
Silver (B)	7440-22-4	1,000	4,500	100 (M); 27	NLV	NLV	6.70E+06	2.50E+06	NA	3,500		<420	<450	<380	<420	<420	<360	<450	<390			
Zinc (B)	7440-66-6	47,000	2,400,000	(G)	NLV	NLV	ID	1.70E+08	NA	2,700,000		38,000	150,000	33,000	68,000	45,000	38,000	37,000	33,000			
Polychlorinated Biphenyls (PCBs)																						
Polychlorinated biphenyls (PCBs) (J,T)	1336-36-3	NA	NLL	NLL	3.00E+06	2.40E+05	5.20E+06	1,000 (T)	NA	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL			
Semivolatile Organic Compounds (SVOCs)																						
Carbazole	86-74-8	NA	9,400	1,100	NLV	NLV	6.20E+07	5.30E+05	NA	1,800		<330	<330	<350	<370	<720	1,800	<330	<330			
Dibenzofuran	132-64-9	NA	ID	1,700	2.00E+06	1.30E+05	6.70E+06	ID	NA	1,700		<330	<330	<350	<370	<720	1,700	<330	<330			
bis(2-Ethylhexyl)phthalate	117-81-7	NA	NLL	NLL	NLV	NLV	7.0E+8	2.8E+6	1.0E+7	750		<330	<330	<350	<370	<720	750	<330	<330			
Remaining SVOCs	Various	-	-	-	-	-	-	-	-	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL			
Polynuclear Aromatic Hydrocarbons (PNAs)																						
Acenaphthene	83-32-9	NA	3.00E+05	8,700	1.90E+08	8.10E+07	1.40E+10	4.10E+07	NA	330		<330	<330	<330	<330	<330	330	<330	<330			
Acenaphthylene	208-96-8	NA	5,900	ID	1.60E+06	2.20E+06	2.30E+09	1.60E+06	NA	6,400		<330	<330	<330	1,300	950	6,400	<330	<330			
Anthracene	120-12-7	NA	41,000	ID	1.0E+9 (D)	1.40E+09	6.70E+10	2.30E+08	NA	8,000		<330	<330	370	1,800	910	8,000	<330	<330			
Benzo(a)anthracene (Q)	56-55-3	NA	NLL	NLL	NLV	NLV	ID	20,000	NA	27,000		<330	780	860	7,300	3,800	27,000	370	<330			
Benzo(a)pyrene (Q)	50-32-8	NA	NLL	NLL	NLV	NLV	1.50E+06	2,000	NA	31,000		<330	950	790	7,700	3,900	31,000	420	<330			
Benzo(b)fluoranthene (Q)	205-99-2	NA	NLL	NLL	ID	ID	ID	20,000	NA	33,000		<330	1,100	880	7,500	4,300	33,000	510	<330			
Benzo(g,h,i)perylene	191-24-2	NA	NLL	NLL	NLV	NLV	8.00E+08	2.50E+06	NA	18,000		<330	560	400	3,900	2,100	18,000	<330	<330			
Benzo(k)fluoranthene (Q)	207-08-9	NA	NLL	NLL	NLV	NLV	ID	2.00E+05	NA	11,000		<330	360	360	2,700	1,600	11,000	<330	<330			
Chrysene (Q)	218-01-9	NA	NLL	NLL	ID	ID	ID	2.00E+06	NA	25,000		<330	730	660	5,800	3,200	25,000	360	<330			
Dibenzo(a,h)anthracene (Q)	53-70-3	NA	NLL	NLL	NLV	NLV	ID	2,000	NA	3,400		<330	<330	<330	820	510	3,400	<330	<330			
Fluoranthene	206-44-0	NA	7.30E+05	5,500	1.0E+9 (D)	7.40E+08	9.30E+09	4.60E+07	NA	48,000		<330	1,200	1,500	12,000	5,700	48,000	610	350			
Fluorene	86-73-7	NA	3.90E+05	5,300	5.80E+08	1.30E+08	9.30E+09	2.70E+07	NA	3,100		<330	<330	<330	380	<330	3,100	<330	<330			
Indeno(1,2,3-cd)pyrene (Q)	193-39-5	NA	NLL	NLL	NLV	NLV	ID	20,000	NA	20,000		<330	630	450	4,200	2,300	20,000	<330	<330			
2-Methylnaphthalene	91-57-6	NA	57,000	4,200	2.70E+06	1.50E+06	6.70E+08	8.10E+06	NA	890		<330	<330	<330	<330	<330	890	<330	<330			
Naphthalene	91-20-3	NA	35,000	730	2.50E+05	3.00E+05	2.00E+08	1.60E+07	NA	2,400		<330	<330	<330	440	<330	2,400	<330	<330			
Phenanthrene	85-01-8	NA	56,000	2,100	2.80E+06	1.60E+05	6.70E+06	1.60E+06	NA	31,000		<330	500	1,100	3,500	2,400	31,000	<330	<330			
Pyrene	129-00-0	NA	4.80E+05	ID	1.0E+9 (D)	6.50E+08	6.70E+09	2.90E+07	NA	51,000		<330	1,300	1,300	12,000	5,400	51,000	590	<330			
Volatile Organic Compounds (VOCs)																						
Xylenes (I)	1330-20-7	NA	5,600	980	6.3E+6 (C)	4.60E+07	2.90E+11	4.1E+8 (C)	1.50E+05	69		<150	<150	<150	<150	<150	<150	69	<150			
Remaining VOCs	Various	-	-	-	-	-	-	-	-	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL			

*Concentration detected does not exceed SDBL for native soils.

Table 1: Summary of Soil Analytical Results
220 N. Park Street
Ypsilanti, Michigan
AKT Peerless Project No. 10627F3-1-20

Parameters <i>(Refer to detailed laboratory report for method reference data)</i>	Chemical Abstract Service (CAS) Number	Statewide Default Background Levels (SDBLs)	Residential Drinking Water Protection (DWP) Criteria	Groundwater Surface Water Interface Protection (GSIP) Criteria	Residential Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Residential Infinite Source Volatile Soil Inhalation Criteria (VSIC)	Residential Particulate Soil Inhalation Criteria (PSIC)	Residential Direct Contact (DC) Criteria	Soil Saturation Concentration (C _{SAT}) Screening Levels	Maximum Concentration Detected	Sample Location	PS-SB-1	PS-SB-2	PS-SB-3	PS-SB-4	B-1-E	B-10-E	B-12-E	B-18-E		
											Collection Date	6/17/2021	6/17/2021	6/17/2021	6/17/2021	9/28/2022	9/28/2022	9/28/2022	9/28/2022		
											Depth	10'-12'	17'-19'	16'-18'	6'-8'	1'-3'	1'-3'	2'-4'	2'-4'		
												µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
Metals																					
Arsenic	7440-38-2	5,800	4,600	4,600	NLV	NLV	7.20E+05	7,600	NA	12,000		<2,000	6,000*	4,000	2,100	3,800	3,000	5,500	12,000		
Barium (B)	7440-39-3	75,000	1,300,000	(G)	NLV	NLV	3.30E+08	3.70E+07	NA	2,200,000		NS	16,000	NS	NS	45,000	46,000	31,000	2,200,000		
Cadmium (B)	7440-43-9	1,200	6,000	(G,X)	NLV	NLV	1.70E+06	5.50E+05	NA	5,500		<200	220	<200	NS	<200	460	<200	5,500		
Chromium, Total	7440-47-3	18,000 (total)	30,000	3,300	NLV	NLV	2.60E+05	2.50E+06	NA	28,000		-	-	-	NS	8,100	8,100	10,000	28,000		
Chromium III (B,H)	16065-83-1	18,000 (total)	1.0E+9 (D)	(G,X)	NLV	NLV	3.3E+8	7.9E+8	NA	13,000		13,000	11,000	11,000	NS	NS	NS	NS	NS		
Chromium VI	18540-29-9	NA	30,000	3,300	NLV	NLV	2.6E+5	2.5E+6	NA	BDL		<2,000	<2,000	<2,000	NS	NS	NS	NS	NS		
Copper (B)	7440-50-8	32,000	5.80E+06	(G)	NLV	NLV	1.30E+08	2.00E+07	NA	110,000		NS	10,000	NS	NS	14,000	16,000	16,000	110,000		
Lead (B)	7439-92-1	21,000	700,000	(G,X)	NLV	NLV	1.00E+08	400,000	NA	31,000,000		<10,000	<10,000	<10,000	NS	60,000	44,000	17,000	31,000,000		
Mercury, Total	7439-97-6	130	1,700	50 (M); 1.2	48,000	52,000	2.00E+07	1.60E+05	NA	230		NS	<50	NS	NS	72	110	<50	230		
Selenium (B)	7782-49-2	410	4,000	400	NLV	NLV	1.30E+08	2.60E+06	NA	2,100		NS	<350	NS	NS	520	2,100	1,700	<4,300		
Silver (B)	7440-22-4	1,000	4,500	100 (M); 27	NLV	NLV	6.70E+06	2.50E+06	NA	3,500		NS	<350	NS	NS	<390	<490	<440	3,500		
Zinc (B)	7440-66-6	47,000	2,400,000	(G)	NLV	NLV	ID	1.70E+08	NA	2,700,000		NS	43,000	NS	NS	45,000	48,000	40,000	2,700,000		
Polychlorinated Biphenyls (PCBs)																					
Polychlorinated biphenyls (PCBs) (J,T)	1336-36-3	NA	NLL	NLL	3.00E+06	2.40E+05	5.20E+06	1,000 (T)	NA	BDL		NS	NS	NS	NS	BDL	BDL	BDL	BDL		
Semivolatiles Organic Compounds (SVOCs)																					
Carbazole	86-74-8	NA	9,400	1,100	NLV	NLV	6.20E+07	5.30E+05	NA	1,800		NS	NS	NS	NS	<330	<330	<330	<330		
Dibenzofuran	132-64-9	NA	ID	1,700	2.00E+06	1.30E+05	6.70E+06	ID	NA	1,700		NS	NS	NS	NS	<330	<330	<330	<330		
bis(2-Ethylhexyl)phthalate	117-81-7	NA	NLL	NLL	NLV	NLV	7.0E+8	2.8E+6	1.0E+7	750		NS	NS	NS	NS	<330	<330	<330	<330		
Remaining SVOCs	Various	-	-	-	-	-	-	-	-	BDL		NS	NS	NS	NS	BDL	BDL	BDL	BDL		
Polynuclear Aromatic Hydrocarbons (PNAs)																					
Acenaphthene	83-32-9	NA	3.00E+05	8,700	1.90E+08	8.10E+07	1.40E+10	4.10E+07	NA	330		<330	<330	<330	<330	<330	<330	<330	<330		
Acenaphthylene	208-96-8	NA	5,900	ID	1.60E+06	2.20E+06	2.30E+09	1.60E+06	NA	6,400		<330	<330	<330	<330	<330	<330	<330	<330		
Anthracene	120-12-7	NA	41,000	ID	1.0E+9 (D)	1.40E+09	6.70E+10	2.30E+08	NA	8,000		<330	<330	<330	<330	<330	<330	<330	<330		
Benzo(a)anthracene (Q)	56-55-3	NA	NLL	NLL	NLV	NLV	ID	20,000	NA	27,000		<330	<330	<330	<330	<330	<330	<330	390		
Benzo(a)pyrene (Q)	50-32-8	NA	NLL	NLL	NLV	NLV	1.50E+06	2,000	NA	31,000		<330	<330	<330	<330	<330	<330	<330	500		
Benzo(b)fluoranthene (Q)	205-99-2	NA	NLL	NLL	ID	ID	ID	20,000	NA	33,000		<330	<330	<330	<330	<330	<330	<330	540		
Benzo(g,h,i)perylene	191-24-2	NA	NLL	NLL	NLV	NLV	8.00E+08	2.50E+06	NA	18,000		<330	<330	<330	<330	<330	<330	<330	<330		
Benzo(k)fluoranthene (Q)	207-08-9	NA	NLL	NLL	NLV	NLV	ID	2.00E+05	NA	11,000		<330	<330	<330	<330	<330	<330	<330	<330		
Chrysene (Q)	218-01-9	NA	NLL	NLL	ID	ID	ID	2.00E+06	NA	25,000		<330	<330	<330	<330	<330	<330	<330	380		
Dibenzo(a,h)anthracene (Q)	53-70-3	NA	NLL	NLL	NLV	NLV	ID	2,000	NA	3,400		<330	<330	<330	<330	<330	<330	<330	<330		
Fluoranthene	206-44-0	NA	7.30E+05	5,500	1.0E+9 (D)	7.40E+08	9.30E+09	4.60E+07	NA	48,000		<330	<330	<330	<330	330	<330	<330	630		
Fluorene	86-73-7	NA	3.90E+05	5,300	5.80E+08	1.30E+08	9.30E+09	2.70E+07	NA	3,100		<330	<330	<330	<330	<330	<330	<330	<330		
Indeno(1,2,3-cd)pyrene (Q)	193-39-5	NA	NLL	NLL	NLV	NLV	ID	20,000	NA	20,000		<330	<330	<330	<330	<330	<330	<330	390		
2-Methylnaphthalene	91-57-6	NA	57,000	4,200	2.70E+06	1.50E+06	6.70E+08	8.10E+06	NA	890		<330	<330	<330	<330	<330	<330	<330	<330		
Naphthalene	91-20-3	NA	35,000	730	2.50E+05	3.00E+05	2.00E+08	1.60E+07	NA	2,400		<330	<330	<330	<330	<330	<330	<330	<330		
Phenanthrene	85-01-8	NA	56,000	2,100	2.80E+06	1.60E+05	6.70E+06	1.60E+06	NA	31,000		<330	<330	<330	<330	<330	<330	<330	<330		
Pyrene	129-00-0	NA	4.80E+05	ID	1.0E+9 (D)	6.50E+08	6.70E+09	2.90E+07	NA	51,000		<330	<330	<330	<330	<330	<330	<330	630		
Volatile Organic Compounds (VOCs)																					
Xylenes (I)	1330-20-7	NA	5,600	980	6.3E+6 (C)	4.60E+07	2.90E+11	4.1E+8 (C)	1.50E+05	69		<150	<150	<150	<150	<150	<160	<150	69		
Remaining VOCs	Various	-	-	-	-	-	-	-	-	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		

*Concentration detected does not exceed SDBL for native soils.

R 299.49 FOOTNOTES FOR GENERIC CLEANUP CRITERIA TABLES

Cleanup Criteria Requirements for Response Activity (formerly the Part 201 Generic Cleanup Criteria and Screening Levels)
(as last revised by EGLE on December 21, 2020)

- (A) Criterion is the state of Michigan drinking water standard established pursuant to Section 5 of 1976 PA 399, MCL 325.1005.
- (B) Background, as defined in R 299.1(b), may be substituted if higher than the calculated cleanup criterion. Background levels may be less than criteria for some inorganic compounds.
- (C) The criterion developed under R 299.20 to R 299.26 exceeds the chemical-specific soil saturation screening level (Csat). The person proposing or implementing response activity shall document whether additional response activity is required to control free-phase liquids or NAPL to protect against risks associated with free-phase liquids by using methods appropriate for the free-phase liquids present. Development of a site-specific Csat or methods presented in R 299.22, R 299.24(5), and R 299.26(8) may be conducted for the relevant exposure pathways.
- (D) Calculated criterion exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb).
- (E) Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA). A notice of aesthetic impact may be employed as an institutional control mechanism if groundwater concentrations exceed the aesthetic drinking water criterion, but do not exceed the applicable health-based drinking water value [as provided in the table in Footnote (E) in R 299.49].
- (F) Criterion is based on adverse impacts to plant life and phytotoxicity.
- (G) Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water. Where water hardness exceeds 400 mg CaCO₃/L, use 400 mg CaCO₃/L for the FCV calculation. The FCV formula provides values in units of ug/L or ppb. The generic GSI criterion is the lesser of the calculated FCV, the wildlife value (WV), and the surface water human non-drinking water value (HNDV). The soil GSI protection criteria for these hazardous substances are the greater of the 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote [See table in Footnote (G) in R 299.49].
- (H) Valence-specific chromium data (Cr III and Cr VI) shall be compared to the corresponding valence-specific cleanup criteria. If both Cr III and Cr VI are present in groundwater, the total concentration of both cannot exceed the drinking water criterion of 100 ug/L. If analytical data are provided for total chromium only, they shall be compared to the cleanup criteria for Cr VI. Cr III soil cleanup criterion for protection of drinking water can only be used at sites where groundwater is prevented from being used as a public water supply, currently and in the future, through an approved land or resource use restriction.
- (I) Hazardous substance may exhibit the characteristic of ignitability as defined in 40 C.F.R. §261.21 (revised as of July 1, 2001), which is adopted by reference in these rules.
- (J) Hazardous substance may be present in several isomer forms. Isomer-specific concentrations shall be added together for comparison to criteria.
- (K) Hazardous substance may be flammable or explosive, or both.
- (L) Criteria for lead are derived using a biologically based model, as allowed for under Section 20120a(9) of the NREPA, and are not calculated using the algorithms and assumptions specified in pathway-specific rules. The generic residential drinking water criterion of 4 ug/L is linked to the generic residential soil direct contact criterion of 400 mg/kg. A higher concentration in the drinking water, up to the state action level of 15 ug/L, may be allowed as a site-specific remedy and still allow for drinking water use, under Section 20120a(2) of the NREPA if soil concentrations are appropriately lower than 400 mg/kg. If a site-specific criterion is approved based on this subdivision, a notice shall be filed on the deed for all property where the groundwater concentrations will exceed 4 ug/L to provide notice of the potential for unacceptable risk if soil or groundwater concentrations increase. Acceptable concentrations of site-specific soil and drinking water concentrations are presented in the [See table in Footnote (L) in R 299.49].
- (M) Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.
- (N) The concentrations of all potential sources of nitrate-nitrogen (e.g., ammonia-N, nitrite-N, nitrate-N) in groundwater that is used as a source of drinking water shall not, when added together, exceed the nitrate drinking water criterion of 10,000 ug/L. Where leaching to groundwater is a relevant pathway, soil concentrations of all potential sources of nitrate-nitrogen shall not, when added together, exceed the nitrate drinking water protection criterion of 2.0E+5 ug/kg.
- (O) The concentrations of all potential sources of nitrate-nitrogen (e.g., ammonia-N, nitrite-N, nitrate-N) in groundwater that is used as a source of drinking water shall not, when added together, exceed the nitrate drinking water criterion of 10,000 ug/L. Where leaching to groundwater is a relevant pathway, soil concentrations of all potential sources of nitrate-nitrogen shall not, when added together, exceed the nitrate drinking water protection criterion of 2.0E+5 ug/kg.
- (P) The concentrations of all potential sources of nitrate-nitrogen (e.g., ammonia-N, nitrite-N, nitrate-N) in groundwater that is used as a source of drinking water shall not, when added together, exceed the nitrate drinking water criterion of 10,000 ug/L. Where leaching to groundwater is a relevant pathway, soil concentrations of all potential sources of nitrate-nitrogen shall not, when added together, exceed the nitrate drinking water protection criterion of 2.0E+5 ug/kg.
- (Q) Criteria for carcinogenic polycyclic aromatic hydrocarbons were developed using relative potential potencies to benzo(a)pyrene.
- (R) Hazardous substance may exhibit the characteristic of reactivity as defined in 40 C.F.R. §261.23 (revised as of July 1, 2001), which is adopted by reference in these rules.
- (S) Criterion defaults to the hazardous substance-specific water solubility limit.
- (T) Refer to the federal Toxic Substances Control Act (TSCA), 40 C.F.R. §761, subpart D and 40 C.F.R. §761, Subpart G, to determine the applicability of TSCA cleanup standards. Subpart D and subpart G of 40 C.F.R. §761 (July 1, 2001) are adopted by reference in these rules. Alternatives to compliance with the TSCA standards listed below are possible under 40 C.F.R. §761 Subpart D. New releases may be subject to the standards identified in 40 C.F.R. §761, Subpart G. Use Part 201 soil direct contact cleanup criteria in the following table if TSCA standards are not applicable. [See table in Footnote (T) in R 299.49].
- (U) Hazardous substance may exhibit the characteristic of corrosivity as defined in 40 C.F.R. §261.22 (revised as of July 1, 2001), which is adopted by reference in these rules.
- (V) Criterion is the aesthetic drinking water value as required by Section 20120(a)(5) of the NREPA. Concentrations up to 200 ug/L may be acceptable, and still allow for drinking water use, as part of a site-specific cleanup under Section 20120a(2) and 20120b of the NREPA.
- (W) Concentrations of trihalomethanes in groundwater shall be added together to determine compliance with the Michigan drinking water standard of 80 ug/L. Concentrations of trihalomethanes in soil shall be added together to determine compliance with the drinking water protection criterion of 1,600 ug/kg.
- (X) The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source. For a groundwater discharge to the Great Lakes and their connecting waters or discharge in close proximity to a water supply intake in inland surface waters, the generic GSI criterion shall be the surface water human drinking water value (HDV) listed in the [table in Footnote (X) in R 299.49], except for those HDV indicated with an asterisk. For HDV with an asterisk, the generic GSI criterion shall be the lowest of the HDV, the WV, and the calculated FCV. See formulas in [the table in Footnote (G) in R 299.49]. Soil protection criteria based on the HDV shall be as listed in the [table in Footnote (X) in R 299.49], except for those values with an asterisk. Soil GSI protection criteria based on the HDV shall be as listed in the [table in Footnote (X) in R 299.49], except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk shall be the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.
- (Y) Source size modifiers shown in the [See table in Footnote (Y) in R 299.49] shall be used to determine soil inhalation criteria for ambient air when the source size is not one-half acre. The modifier shall be multiplied by the generic soil inhalation criteria shown in the table of generic cleanup criteria to determine the applicable criterion. See Footnote (C) [in R 299.49].
- (Z) Mercury is typically measured as total mercury. The generic cleanup criteria, however, are based on data for different species of mercury. Specifically, data for elemental mercury, chemical abstract service (CAS) number 7439976, serve as the basis for the soil volatilization to indoor air criteria, groundwater volatilization to indoor air, and soil inhalation criteria. Data for methyl mercury, CAS number 22967926, serve as the basis for the GSI criterion; and data for mercuric chloride, CAS number 7487947, serve as the basis for the drinking water, soil direct contact, soil direct contact, and the groundwater protection criteria. Comparison to criteria shall be based on species-specific analytical data only if sufficient facility characterization has been conducted to rule out the presence of other species of mercury.
- (AA) Use 10,000 ug/L where groundwater enters a structure through the use of a water well, sump or other device. Use 28,000 ug/L for all other uses.
- (BB) The state drinking water standard for asbestos (fibers greater than 10 micrometers in length) is in units of a million fibers per liter of water (MFL). Soil concentrations of asbestos are determined by polarized light microscopy.
- (CC) **Groundwater:** The generic GSI criteria are based on the toxicity of unionized ammonia (NH₃); the criteria are 29 ug/L and 53 ug/L for cold water and warm water surface water, respectively. As a result, the GSI criterion shall be compared to the percent of the total ammonia concentration in the groundwater that will become NH₃ in the surface water. This percent NH₃ is a function of the pH and temperature of the receiving surface water and can be estimated using the [table in Footnote (CC) in R 299.49], taken from Emerson, et al., (Journal of the Fisheries Research Board of Canada, Volume 32(12):2382, 1975). The generic approach for estimating NH₃ assumes a default pH of 8 and default temperatures of 68 °F and 85 °F for cold water and warm water surface water, respectively. The resulting NH₃ is 3.8 percent and 7.2 percent for cold water and warm water, respectively. This default percentage shall be multiplied by the total ammonia-nitrogen (NH₃-N) concentration in the groundwater and the resulting NH₃ concentration compared to the applicable GSI criterion. As an alternative, the maximum pH and temperature data from the specific receiving surface water can be used to estimate, from the [table in Footnote (CC) in R 299.49], a lower percent unionized ammonia concentration for comparison to the generic GSI.
Soil: The generic soil GSI protection criteria for unionized ammonia are 580 ug/kg and 1,100 ug/kg for cold water and warm water surface water, respectively.
- (DD) Hazardous substance causes developmental effects. Residential direct contact criteria are protective of both prenatal and postnatal exposure. Nonresidential direct contact criteria are protective for a pregnant adult receptor.
- (EE) The [values listed in the table in Footnote (EE) in 299.49] are applicable generic GSI criteria as required by Section 20120e of the NREPA.
- (FF) The chloride GSI criterion shall be 125 mg/L when the discharge is to surface waters of the state designated as public water supply sources or 50 mg/L when the discharge is to the Great Lakes or connecting waters. Chloride GSI criteria shall not apply for surface waters of the state that are not designated as a public water supply source, however, the total dissolved solids criterion is applicable.
- (GG) Risk-based criteria are not available for methane due to insufficient toxicity data. An acceptable soil gas concentration (presented for both residential and nonresidential land uses) was derived utilizing 25 percent of the lower explosive level for methane. This equates to 1.25 percent or 8.4E+6 ug/m³.
- (HH) The residential criterion for sodium is 230,000 ug/L in accordance with the Sodium Advisory Council recommendation and revised Groundwater Discharge Standards.
- (II) The residential drinking water criterion for 1,4-dioxane is not calculated using the equations of R 299.10 or the toxicological and chemical-physical data as shown in Table 4 of R 299.50. The drinking water criterion is calculated using the United States Environmental Protection Agency's (U.S. EPA) "Toxicological Review of 1,4-Dioxane" EPA/635/R-11/003F, September 2013, and the department's residential exposure algorithms to protect both children and adults from unsafe levels of the chemical.
- ID Insufficient data to develop criterion.
- NA A criterion or value is not available or, in the case of background and CAS numbers, not applicable.
- NLL Hazardous substance is not likely to leach under most soil conditions.
- NLV Hazardous substance is not likely to volatilize under most conditions.
- ug/kg Micrograms per kilogram
- ug/L Micrograms per liter
- NS Not sampled
- BDL Below Laboratory Method Detection Limits
- BOLD** Exceeds highlighted criteria.

Appendix A

G2's July 2022 Report on Geotechnical Investigation



Report on Geotechnical Investigation

**220 North Park Street PUD
220 North Park
Ypsilanti, Michigan 48198**

Latitude 42.243722° N
Longitude 83.604967° W

Prepared for:

Renovare Development
42 Watson Street, Suite B
Detroit, Michigan 48201

G2 Project No. 220457
July 18, 2022



CONSULTING
GROUP

July 18, 2022

Ms. Jill Ferrari, Managing Partner
Renovare Development
42 Watson Street, Suite B
Detroit, Michigan 48201

Re: Report on Geotechnical Investigation
220 N. Park Street PUD
220 North Park Street
Ypsilanti, Michigan
G2 Project No. 220457


Dear Ms. Ferrari:

We have completed the geotechnical investigation for the proposed multi-family development in Ypsilanti, Michigan. This report presents the results of our observations and analyses and our recommendations for earthwork operations, foundation and pavement design, and construction considerations as they relate to the geotechnical conditions on site.

We appreciate the opportunity to be of service to Renovare Development and look forward to discussing the recommendations presented. In the meantime, if you have any questions regarding the report or any other matter pertaining to the project, please call us.

Sincerely,

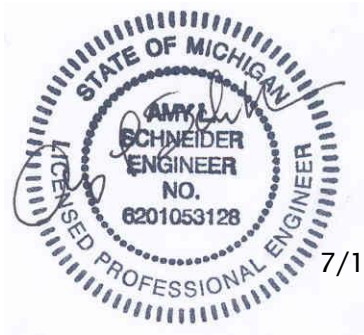
G2 Consulting Group, LLC


Amy L. Schneider, P.E.
Project Manager


Noel J. Hargrave-Thomas, P.E.
Principal

ALS/NJHT/ljv

Enclosures



7/18/22



EXECUTIVE SUMMARY

We understand the proposed development will consist of constructing multiple two-story, slab-on-grade residential buildings (single-unit, duplexes, and four units) throughout the site. Access drives, driveways, and parking areas will be constructed throughout the site. Two detention basins will be constructed along the south side of the property.

Approximately 8 to 18 inches of topsoil are present at soil borings B-1 through B-4, B-6, B-7, B-9, B-10, and B-13 through B-15. Fill soils, consisting of very loose to medium compact sand, silty sand, gravelly sand, and clayey sand and stiff silty clay with approximately 1 to 7 percent organic matter, are present below the topsoil or are present from the ground surface at borings B-5, B-8, B-11, B-12, and B-16 through B-18 and extend to approximate depths ranging from 1-1/2 to 8-1/2 feet. A layer of peat underlies the fill at boring B-13 and extends to an approximate depth of 2 feet. Native loose to medium compact clayey sand, silty sand, sandy silt, gravelly sand, and sand are present below the fill at borings B-1, B-7, B-8, B-13, B-17, and B-18 and extend to approximate depths ranging from 5-1/2 to 12 feet. Native stiff to hard, and to a lesser extent medium, silty clay, sandy clay, and clayey silt underlie the topsoil, fill, and granular soils and extend to approximate depths ranging from 7-1/2 to 18 feet at borings B-1, B-4 through B-6, and B-17 and the explored depths at the remaining borings. Loose to medium compact sand and silty sand are present below the cohesive soils and extend to the explored depths. Groundwater was encountered at borings B-1, B-3 through B-14, and B-18 at approximate depths ranging from 2 to 19 feet during drilling operations, corresponding to elevations ranging from 709 to 734 feet. No measurable groundwater was encountered during or upon completion of drilling operations at the remaining boring locations.

Based on the site grading plan and the encountered subsurface conditions at the boring locations, we recommend the buildings be supported on conventional spread and strip footings. Within the vicinity of borings B-1 through B-4, B-7 through B-9, and B-13 through B-15, foundations will need to extend through any existing fill and engineered fill overlying existing fill soils to bear on the underlying native loose to medium compact clayey sand, sand, and silty sand and stiff to hard silty clay, clayey silt, and sandy clay. Within the vicinity of borings B-5, B-6, and B-10 through B-12, foundation can be supported on the engineered fill overlying native soils following removal and replacement operations as described in the SITE PREPARATION RECOMMENDATIONS section. Considering the variable soil conditions, we recommend an allowable soil bearing capacity of 2,000 pounds per square foot (psf) for design of foundations bearing on the aforementioned soils. We recommend a G2 Consulting Group, LLC (G2) engineer be on site during construction to observe the excavations, measure the bearing depths, and verify the adequacy of the bearing soils. Excavations and undercut operations should be closely monitored to ensure recommendations in this report are adhered to. Complete foundation design parameters are provided in the FOUNDATION RECOMMENDATIONS section of this report.

Provided the potential for floor slab settlement can be tolerated, the existing fill within the vicinity of borings B-1 through B-4, B-7 through B-9, B-14, and B-15 can remain in place for support of floor slabs and engineered fill to achieve proposed finished grades following completion of subgrade preparation as described in the SITE PREPARATION section of this report. If the potential for floor slab settlement cannot be tolerated, the existing fill must be completely removed within the vicinity of the proposed building footprint and a minimum of 5 feet beyond within the vicinity of these borings. Within the vicinity of borings B-5, B-6, and B-10 through B-13, floor slabs can be supported on the engineered fill overlying native soils following removal and replacement operations of the existing fill and peat and placement of engineered fill to achieve finished grades.

We anticipate groundwater will be encountered excavations for removal and replacement of the existing fill soils, particularly in the vicinity of borings B-10 through B-12. Additionally, groundwater may be encountered within foundation excavations in the vicinity of borings B-6 and B-7. Dewatering must be performed prior to excavation operations to maintain a stable bearing surface for support of engineered fill, foundations, and floor slabs.

This summary is not to be considered separate from the entire text of this report, with all the conclusions and qualifications mentioned herein. Details of our analysis and recommendations are discussed in the following sections and in the Appendix of this report.



PROJECT DESCRIPTION

We understand the proposed development will consist of constructing multiple two-story, slab-on-grade residential buildings (single-unit, duplexes, and four units) throughout the site. Bituminous access drives, driveways, and parking areas will be constructed throughout the site, with two access points from North Park Street and North Grove Street. Two detention basins will be constructed along the south side of the property.

Actual loads for the buildings were not available at the time of this investigation. We anticipate building loads will be moderate with strip footing loads ranging from 2 to 4 kips per foot and column loads ranging from 50 to 100 kips. When final loading conditions have been determined, G2 should be notified so that we may review our recommendations presented herein.

SCOPE OF SERVICES

The field operations, laboratory testing, and engineering report preparation were performed under direction and supervision of a licensed professional engineer. Our services were performed according to generally accepted standards and procedures in the practice of geotechnical engineering in this area. Our scope of services for this project is as follows:

1. Eighteen soil borings were drilled throughout the property extending to depths ranging from 10 to 20 feet. The following table presents the individual soil boring information relative to the existing and proposed grades:

STRUCTURE	BORING	~ESTIMATED EXISTING GRADE	~ESTIMATED FINISHED GRADE	ESTIMATED FILL DEPTHS (feet)	BORING DEPTH (feet)
RESIDENTIAL UNITS	B-1	728	728-1/2	0	15
	B-2	729-1/2	729-1/2	0	15
	B-3	732	735-1/2	3	15
	B-4	727	727-1/2	0	15
	B-5	728-1/2	734-1/2	6	20
	B-6	728	736	8	20
	B-7	737	738	1	15
	B-8	738	738	0	15
	B-9	737-1/2	739-1/2	2	15
	B-10	731	736	5	20
	B-11	728-1/2	736	7	20
	B-12	732-1/2	738	6	15
	B-13	737-1/2	740	2	15
	B-14	731	734	3	15
	B-15	734	735	1	15
DETENTION BASIN	B-16	726	722	-4	15
	B-17	724-1/2	729-1/2	5	10
	B-18	727	728	1	10

2. We performed laboratory testing on representative samples obtained from the soil borings. Laboratory testing included visual engineering classification, natural moisture content, organic matter content (loss-on-ignition), and unconfined compressive strength determinations.
3. We prepared this engineering report. The report includes recommendations regarding foundation types, allowable bearing capacity, estimated settlement, pavement and detention design recommendations, and construction considerations related to site construction and associated development.



FIELD OPERATIONS

Renovare Development, in conjunction with G2, selected the number, depth, and location of the soil borings based on the proposed buildings and basin layout. The soil boring locations were determined in the field by a G2 engineer assisted by Google Earth using the accuracy of a mobile phone prior to drilling operations. The approximate soil boring locations are shown on the Soil Boring Location Plan, Plate No. 1. Ground surface elevations were interpolated from topographic contour lines and spot elevations presented on the Grading Plan prepared by Midwestern Consulting, dated May 13, 2022 (REV. 2). We recommend the elevations at the completed boring locations be surveyed to correlate estimated elevations to actual elevations presented on the boring logs.

Soil borings were drilled using a truck mounted rotary drilling rig. Continuous flight 3-1/4 inch inside diameter, hollow-stem augers were used to advance the boreholes to the explored depths. Within each soil boring, soil samples were obtained at intervals of 2-1/2 feet within the upper 10 feet and at intervals of 5 feet below that depth, where applicable. These samples were obtained by the Standard Penetration Test method ASTM D 1586, which involves driving a 2-inch diameter split-spoon sampler into the soil with a 140-pound weight falling 30 inches. The sampler is generally driven three successive 6-inch increments with the number of blows for each increment recorded. The number of blows required to advance the sampler the last 12 inches is termed the Standard Penetration Resistance (N). The blow counts for each 6-inch increment and the resulting N-value are presented on the individual soil boring logs.

The soil samples were placed in sealed containers in the field and brought to the laboratory for testing and classification. During drilling operations, the drilling crew maintained logs of the encountered subsurface conditions, including changes in stratigraphy and observed groundwater levels of the soil borings to be used in conjunction with our analysis of the subsurface conditions. The final boring logs are based on the field logs and laboratory soil classification of these results. After completion of the drilling operations, the boreholes were backfilled with the auger cuttings.

LABORATORY TESTING

Representative soil samples were subjected to laboratory testing to determine soil parameters pertinent to foundation design and site preparation. An experienced geotechnical engineer classified the samples in general conformance with the Unified Soil Classification System.

Laboratory testing included natural moisture content, loss-on-ignition (L.O.I.), and unconfined compressive strength determination. The organic matter content of representative samples was determined in accordance with ASTM Test Method D 2974, "Standard Test Methods for Moisture, Ash, and Organic Matter of Peat and Other Organic Soils". The unconfined compressive strengths were determined using a spring-loaded hand penetrometer. The hand penetrometer estimates the unconfined compressive strength to a maximum of 4-1/2 tons per square foot (tsf) by measuring the resistance of the soil sample to the penetration of a calibrated spring-loaded cylinder.

The results of the moisture content, organic matter content, and unconfined compressive strength determinations are presented on the boring logs at the depths samples were obtained. We will hold the soil samples for a period of 60 days following the issuance of this report. If you would like the soils samples returned to you or retained beyond this period, please let us know.

SITE CONDITIONS

The proposed site is located at the southeast corner of the intersection of North Park Street and High Street, extending east to North Grove Street, in Ypsilanti, Michigan. The property is currently vacant and grass covered with scattered mature trees. Existing grades slope downward from northeast to southwest, ranging from approximately 740 feet to 723 feet adjacent to the railroad.

Based on historical aerial and street images from 2007 a previous structure was present within the central portion of the overall property. No information was available at the time of this investigation on the structure; however, it appears the structure was two-stories with an apparent basement at the south garage portion of the building.



Google Earth Aerial Imagery from 2007



View Looking East from North Park Street



View Looking West from North Grove Street

The property is bounded by North Park Street to the west, High Street and a developed property to the north, North Grove Street to the east and CL Railroad to the south.

SOIL CONDITIONS

Eighteen soil borings were drilled throughout the proposed development. Approximately 8 to 18 inches of topsoil are present at soil borings B-1 through B-4, B-6, B-7, B-9, B-10, and B-13 through B-15. Fill soils, consisting of sand, silty sand, gravelly sand, silty clay, and clayey sand, are present below the topsoil or extend from the ground surface at borings B-5, B-8, B-11, B-12, and B-16 through B-18 and extend to approximate depths ranging from 1-1/2 to 8-1/2 feet. A layer of peat underlies the fill at



boring B-13 and extends to an approximate depth of 2 feet. Native clayey sand, silty sand, sandy silt, gravelly sand, and sand are present below the fill at borings B-1, B-7, B-8, B-13, B-17, and B-18 and extend to approximate depths ranging from 5-1/2 to 12 feet. Native silty clay, sandy clay, and clayey silt underlie the topsoil, fill, and granular soils and extend to approximate depths ranging from 7-1/2 to 18 feet at borings B-1, B-4 through B-6, and B-17 and the explored depths at the remaining borings. Sand and silty sand are present below the cohesive soils at the aforementioned boring and extend to the explored depths.

The granular fill soils are very loose to loose in compactness with Standard Penetration Test N-values ranging from 4 to 9 blows per foot. However, at borings B-12 and B-16, the granular fill is medium compact with N-values ranging from 11 to 15 blows per foot. The silty clay fill is stiff in consistency with moisture contents of 13 and 24 percent and unconfined compressive strengths of 3,000 psf. The fill soils have organic contents ranging from 1.1 to 3.3 percent, with the exception of at boring B-10 which has an organic matter content of 7.0 percent. The peat at boring B-13 has an organic matter content of 21.9 percent and a moisture content of 57 percent

The native granular soils are loose to medium compact with N-values ranging from 5 to 20 blows per foot. The native cohesive soils are generally stiff to very stiff in consistency with natural moisture contents ranging from 11 to 27 percent and unconfined compressive strengths ranging from 2,000 to 7,000 psf. At boring B-11, medium to stiff clayey silt extends from an approximate depth of 7 to 12 feet with natural moisture contents of 15 and 18 percent and unconfined compressive strengths of 1,000 and 2,000 psf. Layers of hard silty clay are present at various depths with natural moisture contents ranging from 10 to 20 percent and unconfined compressive strengths of 8,000 and 9,000 psf.

The stratification depths shown on the soil boring logs represent the soil conditions at the boring locations. Variations may occur between borings. Additionally, the stratigraphic lines represent the approximate boundaries between soil types. The transitions may be more gradual than what are shown. We have prepared the boring logs on the basis of laboratory classification and testing as well as field logs of the soils encountered.

The Soil Boring Location Plan, Plate No. 1, Soil Boring Profiles, Plate Nos. 2 and 3, and Soil Boring Logs, Figure Nos. 1 through 18, are presented in the Appendix. The soil profiles described above are generalized descriptions of the conditions encountered at the boring locations. General Notes Terminology defining the nomenclature used on the boring logs and elsewhere in this report are presented on Figure No. 19.

GROUNDWATER CONDITIONS

Groundwater observations were made during and upon completion of soil boring operations. Groundwater was encountered at borings B-1, B-3, B-6 through B-14, and B-18 at approximate depths ranging from 2 to 8 feet during drilling operations, corresponding to elevations ranging from 720 to 734 feet. At borings B-4 and B-5, groundwater was encountered at approximate depths of 11 and 19 feet, corresponding to elevations of 709 and 716 feet. No measurable groundwater was encountered during or upon completion of drilling operations at the remaining boring locations.

Fluctuations in perched and long-term groundwater levels should be anticipated due to seasonal variations and following period of prolonged precipitation. It should be noted that groundwater observations made during drilling operations in predominantly cohesive soils are not necessarily indicative of static groundwater levels. This is due to the low permeability of such soils and the tendency of the drilling operations to seal off natural paths of groundwater flow.

SITE PREPARATION

Based on the existing conditions, we anticipate a significant amount of earthwork will be required to develop the site. Earthwork operations are expected to consist of removing any existing topsoil,



vegetation, and trees within the location of the proposed structures and pavements, removing the existing fill where specified, subgrade preparation for support of engineered fill, floor slabs, and pavements, placement of engineered fill to achieve proposed finished grades, and excavating and backfilling of foundations, utilities, and detention basins. We recommend all earthwork operations be performed in accordance with comprehensive specifications and be properly monitored in the field by qualified geotechnical engineers and technicians.

At the start of earthwork operations, any vegetation, topsoil, and trees should be completely removed from within the limits of the proposed building and pavement areas. The existing fill throughout the property is not suitable for support of foundations and marginally suitable for support of engineered fill to achieve finished grades. In the vicinity of borings B-5, B-6, and B-10 through B-12, approximately 2-1/2 to 8-1/2 feet of existing fill are present at the boring locations and an additional 5 to 8 feet of engineered fill are required to achieve proposed finished grades. This would result in foundations extending to depths of 8-1/2 to 14 feet below finished grade to bear on the underlying native soils, which is not a feasible option. Therefore, we recommend the existing fill be completely removed to the underlying native subgrade within the building footprints and a minimum of 10 feet beyond. Due to the extensive amount of engineered fill required to replace the removed fill soils and achieve proposed finished grades, the resulting excavations must be backfilled with granular engineered fill (such as Class II, Class IIA, MDOT 21AA limestone).

In the vicinity of borings B-1 through B-4, B-7 through B-9, B-14, and B-15, approximately 1-1/2 to 5 feet of existing fill soils are present at the boring locations, but only 1-1/2 to 3 feet of engineered fill are required to achieve proposed finished grades. To bear on native soils, foundations will need to extend up to 5-1/2 feet below finished grade, which is a feasible depth to extend foundations. Therefore, in the vicinity of these borings, we anticipate the fill can remain in place for support of engineered fill and floor slabs provided the potential for slab settlement can be tolerated as discussed in the FLOOR SLAB RECOMMENDATIONS section.

The existing fill and underlying peat encountered in the vicinity of boring B-13 must be completely removed to the underlying native silty sand. The resulting excavation must be backfilled with engineered fill for support of building floor slabs, foundations, and pavements.

Profiles across the property of the soil borings and existing/proposed grades, are presented in the appendix, Plate Nos. 2 and 3. Due to the variability across the property, these areas should be closely observed by G2 during site preparation operations to delineate the extent of undercuts required prior to placement of engineered fill.

Following satisfactory removal of any vegetation, topsoil, and trees, removing the existing fill where required, and prior to placement of any engineered fill, any exposed predominantly granular subgrade should be thoroughly proof compacted with a heavy roller. We recommend proof compacting operations consist of making a minimum of 10 passes in 2 perpendicular directions across the subgrade to compact the upper granular soils for support of floors slabs and engineered fill. Any cohesive subgrade soils should be proof rolled with a fully loaded dump truck. Any unstable or unsuitable areas noted during these operations should be improved by additional compaction or removed and replaced with specified engineered fill. Any soils that are disturbed during grading operations or during removal of existing surface vegetation should be removed and replaced with engineered fill.

Proof-compaction or proof roll operations should be completed within 2 days prior to placement of any fill material or pavement construction. Areas of instability may develop under the repeated loading from heavy construction equipment or moisture. We anticipate any areas of instability that develop can be stabilized by additional compaction; however, within areas where continuous rutting or shoving of soils occur due to construction traffic, the contractor should be prepared to undercut unsuitable soils and place crushed limestone, as necessary, to stabilize the subgrade soils. Additionally, we recommend the



aggregate base for pavements be placed immediately after subgrade preparation operations have been completed to limit the amount of disturbance to the prepared subgrade.

Any engineered fill placed within the site should consist of an approved, environmentally clean material free of organic matter, frozen soil, clods, or other harmful substances. The engineered fill should be compacted to achieve a density of at least 95 percent of the maximum dry density, as determined by the Modified Proctor compaction test (ASTM D 1557). Any granular fill used within the site may be compacted within 2 percent above or below optimum moisture content. Any cohesive engineered fill material should be placed and compacted at moisture contents within 3 percent above and one percent below the optimum moisture content. Frozen material should not be used as fill, nor should fill be placed on a frozen subgrade.

We recommend using granular engineered fill within confined areas such as utility trenches and adjacent to foundation walls and catch basins. Granular engineered fill is generally more easily compacted than cohesive soils within these confined areas. Additionally, the proper placement and compaction of backfill within these areas is imperative to provide adequate support for overlying floor slabs and pavements.

Based on the proposed grading plan, no significant cuts will be performed to generate engineered fill. Any existing fill removed from foundation or utility excavations are not suitable for reuse as engineered fill below structures. The fill can be used in landscape and berm areas or to raise grades within the basin footprint provided no gradation requirements are specified by the design engineer.

FOUNDATION RECOMMENDATIONS

Based on the site grading plan and the encountered subsurface conditions at the boring locations, we recommend the buildings be supported on conventional spread and strip footings. Within the vicinity of borings B-1 through B-4, B-7 through B-9, and B-13 through B-15, foundations will need to extend through any existing fill and engineered fill overlying existing fill soils to bear on the underlying native loose to medium compact clayey sand, sand, and silty sand and stiff to hard silty clay, clayey silt, and sandy clay. Within the vicinity of borings B-5, B-6, and B-10 through B-12, foundation can be supported on the engineered fill overlying native soils following removal and replacement operations as described in the SITE PREPARATION RECOMMENDATIONS section. Considering the variable soil conditions, we recommend an allowable soil bearing capacity of 2,000 psf for design of foundations bearing on the aforementioned soils.

Exterior footings should bear at a minimum depth of 3-1/2 feet below finished grade for protection against frost heave. Interior foundations can bear at shallower depths provided suitable bearing soils are present and foundations are protected from frost during construction. However, we anticipate foundations in the vicinity of borings B-1 through B-4, B-7 through B-9, B-14, and B-15 will extend to depths of up to 6 feet below finished grades if the existing fill is to remain for support of engineered fill and floor slabs. We recommend a G2 engineer be on site during construction to observe the excavations, measure the bearing depths, and verify the adequacy of the bearing soils. Excavations and undercut operations should be closely monitored to ensure recommendations in this report are adhered to.

Continuous wall or strip footings should be at least 16 inches in width and isolated spread footings should be at least 30 inches in their least dimension. If required to construct foundations at different levels, the adjacent foundations should be designed and constructed so the least lateral distance between the foundations is equivalent to or more than the difference in their bearing levels. To achieve a change in the level of a strip footing, the footing should be gradually stepped at a grade no steeper than two units horizontal to one unit vertical.

If the recommendations outlined in this report are adhered to, total and differential settlements for the completed structure should be within 1 inch and 1/2 inch, respectively. We expect settlements of these



magnitudes are within tolerable limits for the type of addition proposed. We recommend all strip footings be suitably reinforced to minimize the effects of differential settlements associated with local variations in subsoil conditions.

FLOOR SLAB RECOMMENDATIONS

Provided the potential for floor slab settlement can be tolerated, the existing fill within the vicinity of borings B-1 through B-4, B-7 through B-9, B-14, and B-15 can remain in place for support of floor slabs and engineered fill to achieve proposed finished grades following completion of subgrade preparation as described in the SITE PREPARATION section of this report. Floor slabs supported by the existing fill or engineered fill overlying the existing fill may be designed using a subgrade modulus of up to 100 pounds per cubic inch (pci). If the potential for floor slab settlement cannot be tolerated, the existing fill must be completely removed within the vicinity of the proposed building footprint and a minimum of 5 feet beyond within the vicinity of these borings.

Within the vicinity of borings B-5, B-6, and B-10 through B-13, floor slabs can be supported on the engineered fill overlying native soils following removal and replacement operations of the existing fill and placement of engineered fill to achieve finished grades. Floor slabs supported by engineered fill overlying existing fill may be designed using a subgrade modulus of up to 150 pci.

We recommend that at least 4 inches of pea gravel be placed between the subgrade and the bottom of the floor slab for use as a capillary break to reduce moisture transmission through the concrete floors and to reduce the potential for concrete curling. If moisture sensitive floor coverings are planned, or if greater protection against vapor transmission is desired, a vapor barrier, consisting of at least 10-mil plastic sheeting, may be placed over the capillary break layer beneath floor slabs. We recommend all concrete floor slabs be suitably reinforced and separated from the foundation system to allow for independent movement.

PAVEMENT RECOMMENDATIONS

We understand bituminous pavements will be constructed in conjunction with the development, with access drives providing access through the site and parking aligning the drives. Throughout the majority of the property, the pavement section will be supported on engineered fill placed to achieve finished grades. Based on the unknown composition of the engineered fill, we recommend the subgrade soils be assigned a conservative effective roadbed soil resilient modulus of 6,000 pounds per square inch (psi) for use in pavement design. For evaluation purposes, we estimated a serviceability loss of 2.0, a standard deviation of 0.45 for flexible pavement design, and a reliability factor of 0.90.

No data regarding expected traffic frequencies and type of vehicles was available. We anticipate the majority of traffic will be passenger vehicles with several delivery trucks and garbage trucks weekly. For a design life of 20 years, we estimate this combination of vehicles may result in approximately 50,000 equivalent 18-kip single-axle loads (ESALs) for standard-duty pavements. We performed pavement design analysis in accordance with the "AASHTO Guide for Design of Pavement Structures." Based on the results of our analysis, we recommend the following minimum pavement design cross section:

Standard-Duty Flexible Pavement Section		
Material	Thickness	Structural Coefficient
MDOT 13A Bituminous Wearing Course	2 inches	0.42
MDOT 3C Bituminous Leveling Course	2 inches	0.42
MDOT 21AA Aggregate Base Course (dense-graded)	8 inches	0.14

Large front-loading refuse trucks can impose significant concentrated wheel loads within trash dumpster pick-up areas. This type of loading can result in rutting of asphalt pavements and ultimately in failure.



Therefore, we recommend reinforced concrete pavement at least 8 inches in thickness be used in these areas. The concrete pad should be large enough to support the entire refuse truck during pick-up operations.

All pavement materials are specified within the 2012 Standard Specifications for Construction from the Michigan Department of Transportation. The bituminous pavement materials are described in Sections 400 through 448. The aggregate materials for dense-graded base and asphalt are described in Section 902. Per MDOT specifications, the asphalt pavement materials can be assigned a structural coefficient number of 0.42 and the dense-graded aggregate base material can be assigned a structural coefficient number of 0.14.

Proper drainage is considered to be an important consideration for pavement design. The pavement should be properly sloped to promote effective surface drainage and prevent water ponding. If cohesive fill soils are utilized in pavement areas, we recommend edge drains be provided around the perimeter of any proposed landscaped islands and along curbs, since they can become a source of water infiltration into the pavement subgrade. Such drains could be connected to nearby catch basins.

Based on the presence of fill soils with organic matter, we recommend the subgrade not be exposed to prolonged periods of precipitation. This may result in the subgrade soils becoming unstable. We recommend the proposed reconstruction be performed during the summer months during dry, warm weather conditions. In addition, we recommend an allotment for undercutting the existing fill soils with organic matter be budgeted for the proposed project.

We recommend regular timely maintenance be performed on the pavement to reduce the potential deterioration associated with moisture infiltration through surface cracks. The owner should be prepared to seal the cracks with a hot-applied elastic crack filler as soon as possible after cracking develops and as often as necessary to block the passage of water to the subgrade soils. We recommend that crack sealing be performed on a yearly basis for pavements that are in good and fair condition to extend the life of the pavements.

DETENTION BASIN RECOMMENDATIONS

Two detention basins are to be constructed on the property as depicted on the Soil Boring Location Plan. Based on soil borings B-16 through B-18, the soil conditions at the bottom of the basins will be highly variable, ranging from silty sand fill, clayey sand fill, native sandy clay, and engineered fill to achieve proposed finished grades. Fine grained and cohesive soils typically have permeability values on the order of 1×10^{-3} cm/sec or less. To better determine infiltration potential at the proposed basins and in consideration of the unknown fill material to achieve finished grades, we recommend in-situ testing (such as double ring infiltrometer) be performed following completion of site grading operations.

CONSTRUCTION CONSIDERATIONS

We anticipate groundwater will be encountered excavations for removal and replacement of the existing fill soils, particularly in the vicinity of borings B-10 through B-12. Additionally, groundwater may be encountered within foundation excavations in the vicinity of borings B-6 and B-7. Dewatering must be performed prior to excavation operations to maintain a stable bearing surface for support of engineered fill, foundations, and floor slabs. This is especially important in consideration of the existing clayey silt soils present throughout the site.

Accumulations of groundwater may be controllable with normal pumping from properly constructed sumps which can typically lower groundwater 1 to 2 feet, such as in the vicinity of borings B-6 and B-7. However, more significant dewatering methods consisting of perimeter trench drains with sumps and pumps will likely be required if groundwater is to be lowered to greater depths, such as within the areas of deep fill removal, to allow construction operations in dry conditions.



Caving and sloughing of the granular soils will likely occur during excavation operations for the foundation and utilities. However, within the cohesive soils, we anticipate foundations can be excavated in open, neat excavations. The contractor should be prepared to over excavate and form the footings within any granular soils, as necessary. The sides of the spread and/or strip footing foundations should be constructed straight and vertical to reduce the risk of frozen soil adhering to the concrete and raising the foundations.

Where excavations extend deeper than 5 feet and sufficient space is available, we recommend maximum slopes of 2 horizontal units to 1 vertical unit (2H:1V) for sloped excavations within the existing very loose medium compact native and fill granular soils, 1-1/2H:1V within the medium to stiff cohesive soils, and 1H:1V within the very stiff to hard cohesive soils. Where seepage from excavation cuts is observed, the slopes must be flattened sufficiently to achieve stability, but in no case left steeper than 3H:1V at and below the seepage level. We do not recommend excavating below the encountered groundwater level without appropriate dewatering prior. All excavations should be safely sheeted, shored, sloped, or braced in accordance with MI-OSHA requirements. If material is stored or equipment is operated near an excavation, stronger shoring must be used to resist the extra pressure due to the superimposed loads.

Care should always be exercised when excavating near existing roadways or utilities to avoid undermining. In no case should excavations extend below the level of adjacent roadways and utilities as the development is being constructed unless underpinning is planned.

GENERAL COMMENTS

We have formulated the evaluations and recommendations presented in this report relative to site preparation and foundations on the basis of data provided to us relating to the project location, type of structure, and surface grade for the proposed site. Any significant change in this data should be brought to our attention for review and evaluation with respect to prevailing subsurface conditions. Furthermore, if changes occur in the design, location, or concept of the project, conclusions and recommendations contained in this report are not valid unless G2 Consulting Group, LLC reviews the changes. G2 Consulting Group, LLC will then confirm the recommendations presented herein or make changes in writing.

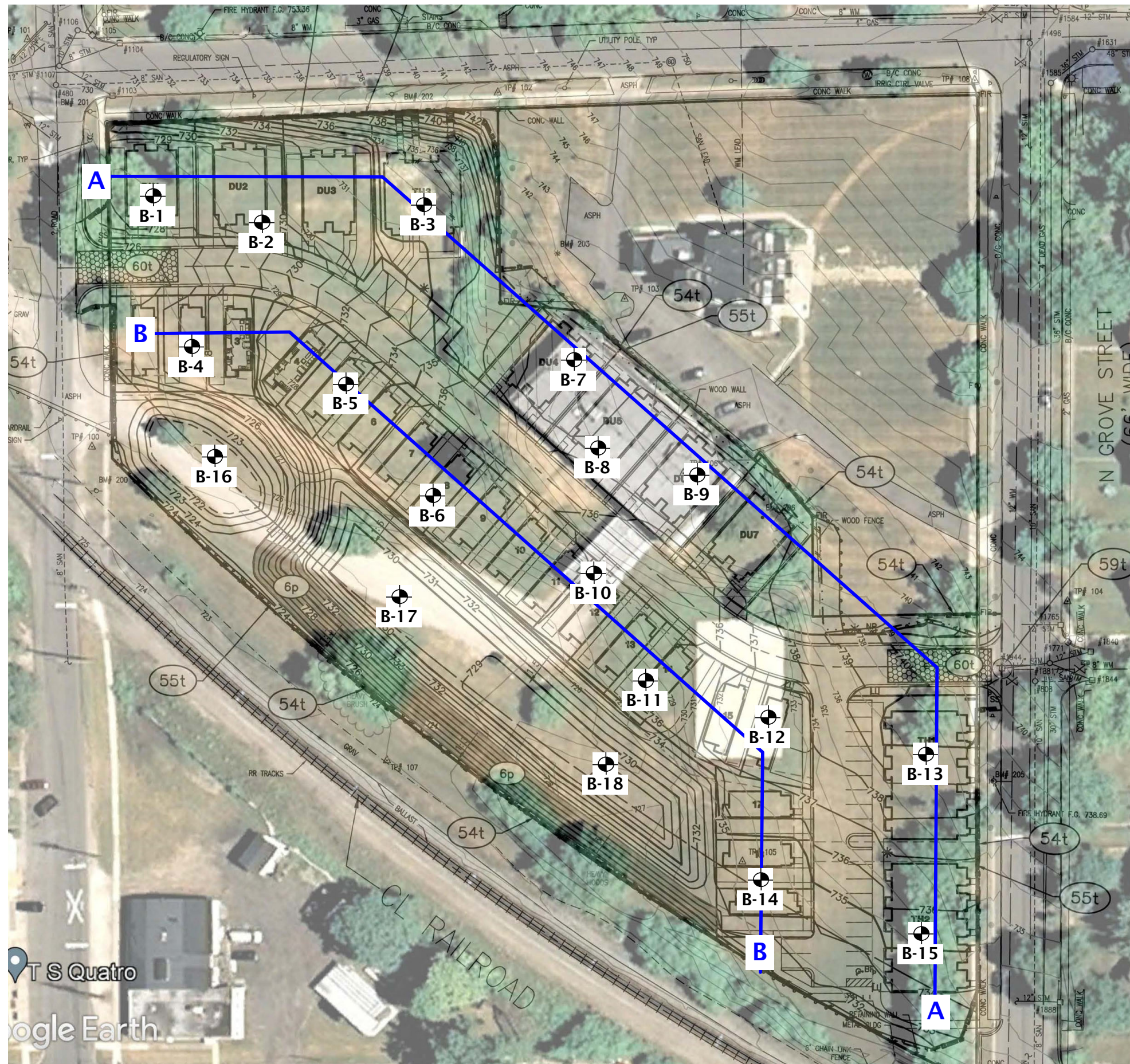
The scope of the present investigation was limited to evaluation of subsurface conditions for the support of proposed buildings and pavements and other related aspects of the development. No chemical, environmental, or hydrogeological testing or analyses were included in the scope of this investigation.

We base the analyses and recommendations submitted in this report upon the data from the soil borings performed at the approximate locations shown on the Soil Boring Location Plan, Plate No. 1. This report does not reflect variations that may occur between the actual boring locations and the actual structure locations. The nature and extent of any such variations may not become clear until the time of construction. If significant variations then become evident, it may be necessary for us to re-evaluate our report recommendations.



We recommend G2 Consulting Group, LLC observe all geotechnical related work, including foundation construction, subgrade preparation, and engineered fill placement. G2 Consulting Group, LLC will perform the appropriate testing to confirm the geotechnical conditions given in the report are found during construction.


APPENDIX

Soil Boring Location Plan	Plate No. 1
Soil Boring Profiles	Plate Nos. 2 and 3
Soil Boring Logs	Figure Nos. 1 through 18
General Notes Terminology	Figure No. 19

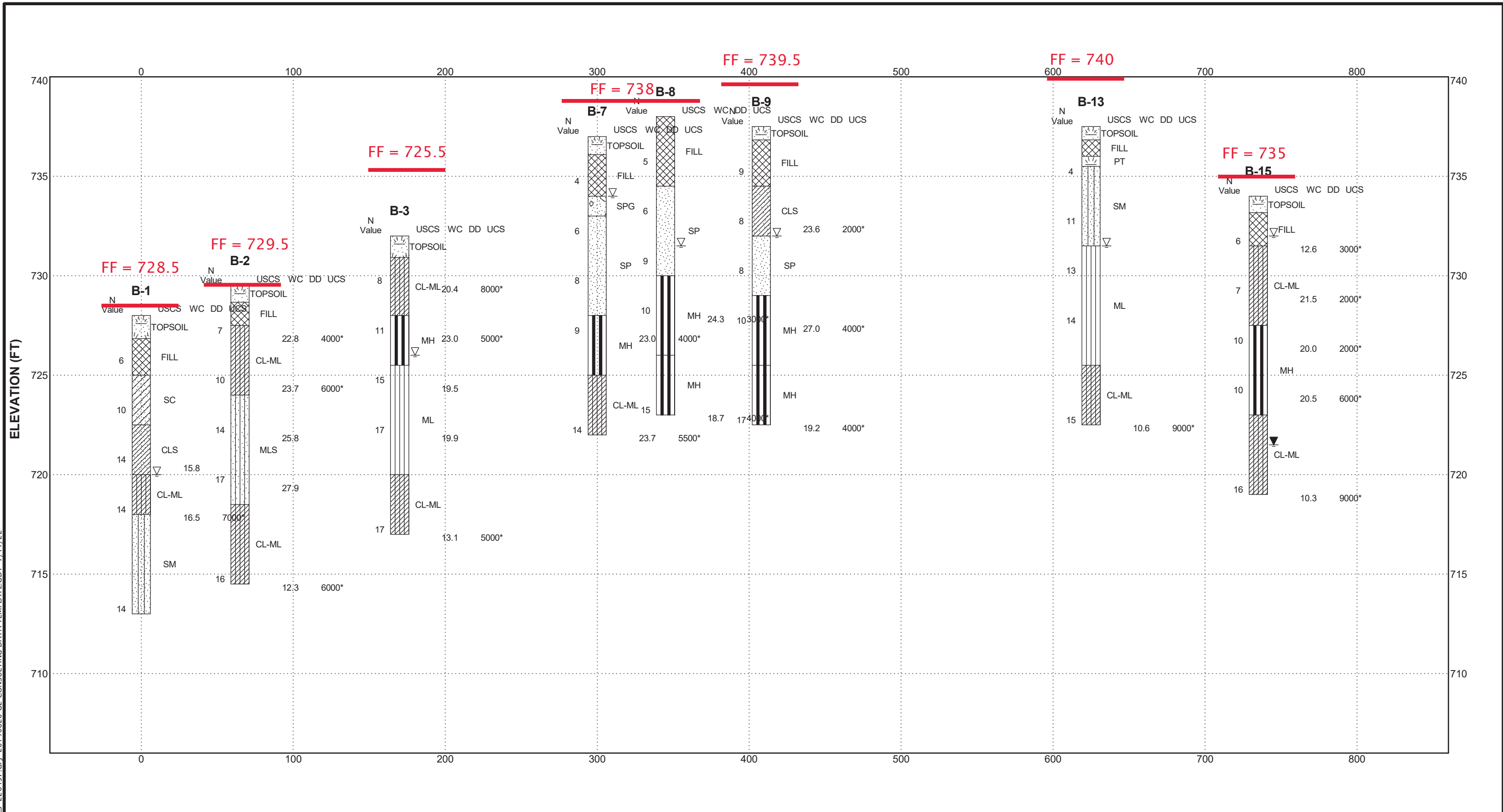


LEGEND

-  Soil Borings Drilled by Strata Drilling on June 15 through 17, 2022
-  Soil Boring Profile

Soil Boring Location Plan		
220 N. Park Street PUD 220 N. Park Street Ypsilanti, Michigan 48198		
 CONSULTING GROUP	Project No. 220457	
	Drawn by: ALS	
	Date: 7/15/22	Plate No. 1
	Scale: NTS	

T S Quatro
Google Earth



Legend

- ▽ Encountered Groundwater Level
- ▼ Groundwater Level at Completion



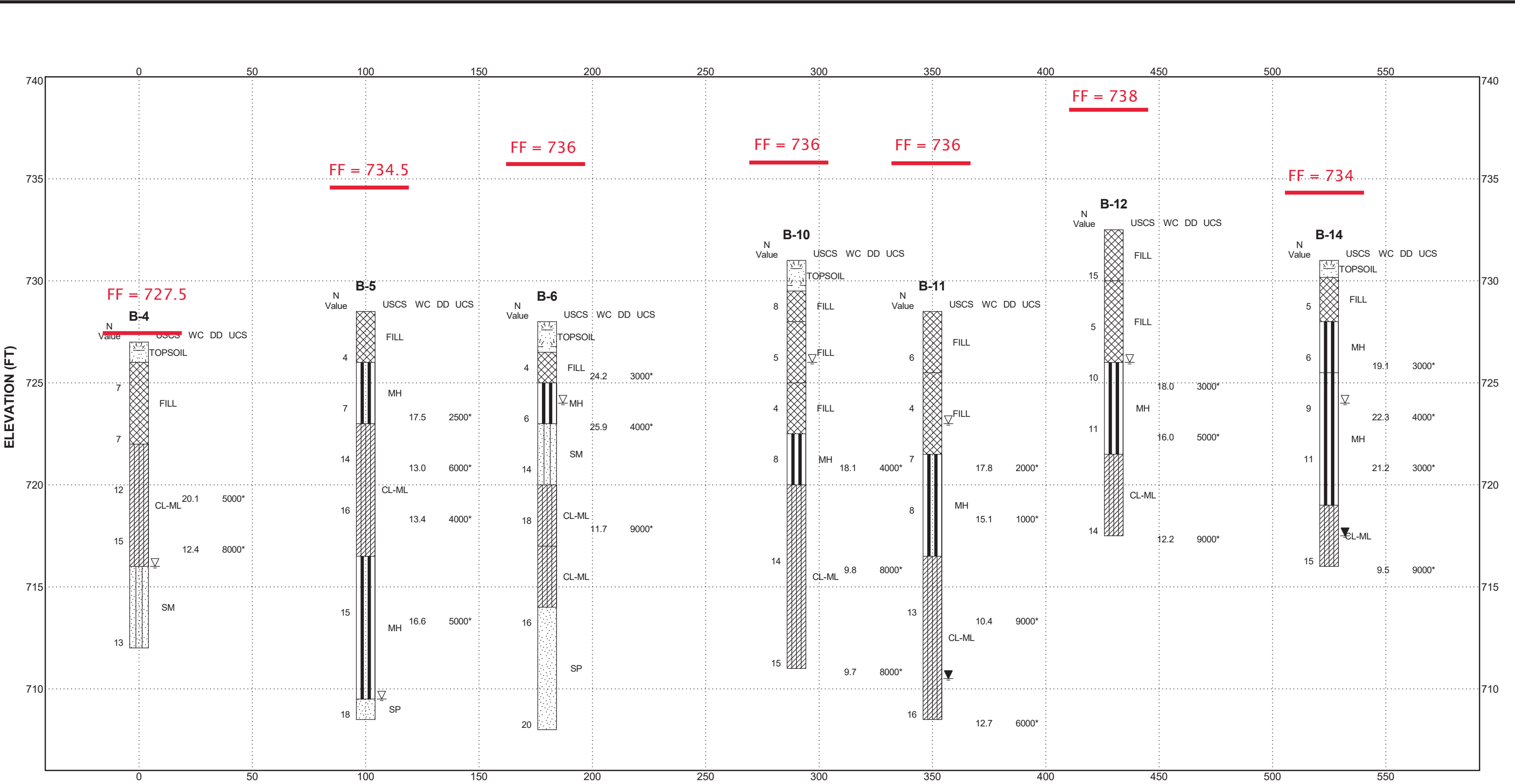
SOIL BORING PROFILE A-A

Project Name: 220 N. Park Street PUD
 Project Location: 220 North Park Street
 Ypsilanti, Michigan 48198

G2 Project No.: 220457

Plate No. 2

SOIL BORING PROFILE WITH WATER LEVELS 220457.GPJ 20140820 G2 CONSULTING DATA TEMPLATE.GDT 7/11/22



Legend

- ▽ Encountered Groundwater Level
- ▼ Groundwater Level at Completion



SOIL BORING PROFILE B-B

Project Name: 220 N. Park Street PUD
 Project Location: 220 North Park Street
 Ypsilanti, Michigan 48198

G2 Project No.: 220457 Plate No. 3

Project Name: 220 N. Park Street PUD

Project Location: 220 North Park Street
Ypsilanti, Michigan 48198

G2 Project No. 220457

Latitude: N/A Longitude: N/A



Soil Boring No. **B-1**
CONSULTING GROUP

SUBSURFACE PROFILE				SOIL SAMPLE DATA					
ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 728.0 ft ±	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Silty Sand (14 inches)	1.2						
		Fill: Loose Brown and Black Silty Sand with trace clay, gravel, and organic matter (Organic Matter Content = 2.1%)	3.0	S-1	3 3 3	6			
723.0		Loose Brown and Gray Clayey Sand with trace silt and gravel	5	S-2	3 4 6	10			
		Stiff Brown and Gray Sandy Clay with trace silt, gravel, and occasional wet sand seams	8.0	S-3	5 7 7	14	15.8		
718.0		Very Stiff Brown and Gray Silty Clay with trace sand, occasional silt and sand layers	10.0	S-4	6 6 8	14	16.5		7000*
		Medium Compact Brown Silty Sand with trace gravel	15.0	S-5	5 6 8	14			
713.0									
		End of Boring @ 15 ft							
708.0			20						

Total Depth: 15 ft
 Drilling Date: June 15, 2022
 Inspector:
 Contractor: Strata Drilling, Inc.
 Driller: D. Watkins

Water Level Observation:
 8 feet during drilling; wet cave at 10 feet upon removal of augers

Notes:
 * Calibrated Hand Penetrometer

Drilling Method:
 2-1/4 inch inside diameter hollow stem auger

Excavation Backfilling Procedure:
 Auger cuttings

SOIL / PAVEMENT BORING - 220457.GPJ - 20150116 G2 CONSULTING DATA TEMPLATE.GDT - 7/19/22

Figure No. 1

Project Name: 220 N. Park Street PUD

Project Location: 220 North Park Street
Ypsilanti, Michigan 48198

G2 Project No. 220457

Latitude: N/A Longitude: N/A



Soil Boring No. B-2

CONSULTING GROUP

SUBSURFACE PROFILE				SOIL SAMPLE DATA					
ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 729.5 ft ±	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Silty Sand (10 inches)	0.8						
		Fill: Loose Gray Sandy Gravel with trace silt	2.0						
		Stiff to Very Stiff Brown and Gray Silty Clay with trace sand and gravel, occasional silt partings		S-1	3 3 4	7	22.8		4000*
724.5			5	S-2	3 4 6	10	23.7		6000*
		Medium Compact Gray Sandy Silt with trace gravel, occasional clayey silt layers							
					S-3	7 7 7	14	25.8	
719.5			10	S-4	7 8 9	17	27.9		
		Very Stiff Gray Silty Clay with little sand and trace gravel							
714.5			15.0	S-5	8 8 8	16	12.3		6000*
		End of Boring @ 15 ft							
709.5			20						

SOIL / PAVEMENT BORING 220457.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 7/19/22

Total Depth: 15 ft
 Drilling Date: June 15, 2022
 Inspector:
 Contractor: Strata Drilling, Inc.
 Driller: D. Watkins

Water Level Observation:
 Dry during and upon completion of drilling operations

Notes:
 * Calibrated Hand Penetrometer

Drilling Method:
 2-1/4 inch inside diameter hollow stem auger

Excavation Backfilling Procedure:
 Auger cuttings

Figure No. 2

Project Name: 220 N. Park Street PUD

Project Location: 220 North Park Street
Ypsilanti, Michigan 48198

G2 Project No. 220457

Latitude: N/A Longitude: N/A



Soil Boring No. B-3

CONSULTING GROUP

SUBSURFACE PROFILE				SOIL SAMPLE DATA					
ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 732.0 ft ±	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Clayey Sand (13 inches)	1.1						
		Hard Gray Silty Clay with trace sand and gravel	4.0	S-1	4 4 4	8	20.4		8000*
727.0		Very Stiff Gray Clayey Silt with trace sand, occasional brown sandy silt layers	5	S-2	6 5 6	11	23.0		5000*
		Medium Compact Gray Silt with trace sand	6.5	S-3	6 7 8	15	19.5		
722.0		Medium Compact Gray Silt with trace sand	10	S-4	7 8 9	17	19.9		
		Very Stiff Gray Silty Clay with little sand and trace gravel	12.0						
717.0		Very Stiff Gray Silty Clay with little sand and trace gravel	15.0	S-5	6 8 9	17	13.1		5000*
		End of Boring @ 15 ft							
712.0			20						

SOIL / PAVEMENT BORING - 220457.GPJ - 20150116.G2 CONSULTING DATA TEMPLATE.GDT - 7/19/22

Total Depth: 15 ft
 Drilling Date: June 15, 2022
 Inspector:
 Contractor: Strata Drilling, Inc.
 Driller: D. Watkins

Water Level Observation:
 6 feet during drilling operations; dry upon completion

Notes:
 * Calibrated Hand Penetrometer

Excavation Backfilling Procedure:
 Auger cuttings

Drilling Method:
 2-1/4 inch inside diameter hollow stem auger

Figure No. 3

Project Name: 220 N. Park Street PUD

Project Location: 220 North Park Street
Ypsilanti, Michigan 48198

G2 Project No. 220457

Latitude: N/A Longitude: N/A



Soil Boring No. **B-4**
CONSULTING GROUP

SUBSURFACE PROFILE				SOIL SAMPLE DATA					
ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 727.0 ft ±	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Silty Sand (12 inches)	1.0						
		Fill: Loose Dark Brown and Brown Silty Sand with trace clay, gravel, and organic matter (Organic Matter Content @ 2.5' = 1.3%; @ 5' = 1.1%)	5.0	S-1	4 3 4	7			
722.0		Very Stiff to Hard Brown and Gray Silty Clay with trace sand and gravel	10.0	S-2	3 3 4	7			
				S-3	5 5 7	12	20.1		5000*
717.0				S-4	6 7 8	15	12.4		8000*
		Medium Compact Brown Silty Sand with trace gravel	15.0	S-5	6 6 7	13			
712.0									
		End of Boring @ 15 ft							
707.0			20						

SOIL / PAVEMENT BORING - 220457.GPJ - 20150116 G2 CONSULTING DATA TEMPLATE.GDT - 7/19/22

Total Depth: 15 ft
 Drilling Date: June 15, 2022
 Inspector:
 Contractor: Strata Drilling, Inc.
 Driller: D. Watkins

Water Level Observation:
 11 feet during drilling operations; wet cave measured at 11 feet upon removal of augers

Notes:
 * Calibrated Hand Penetrometer

Drilling Method:
 2-1/4 inch inside diameter hollow stem auger

Excavation Backfilling Procedure:
 Auger cuttings

Figure No. 4

Project Name: 220 N. Park Street PUD

Project Location: 220 North Park Street
Ypsilanti, Michigan 48198

G2 Project No. 220457

Latitude: N/A Longitude: N/A



Soil Boring No. B-5

CONSULTING GROUP

SUBSURFACE PROFILE				SOIL SAMPLE DATA					
ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 728.5 ft ±	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Fill: Very Loose Dark Brown Silty Sand with trace clay, gravel, brick debris, and organic matter (Organic Matter Content = 3.9%)	2.5	S-1	1 2 2	4			
723.5		Stiff Gray Clayey Silt with trace sand and gravel, occasional sandy silt partings	5	S-2	3 3 4	7	17.5		2500*
		Stiff to Very Stiff Brown Silty Clay with trace sand and gravel	5.5	S-3	6 7 7	14	13.0		6000*
			10		6 7 9				
718.5		Very Stiff Gray Clayey Silt with trace sand and gravel	12.0	S-5	5 7 8	15	16.6		5000*
713.5			15		5 7 8				
		Medium Compact Gray Sand with trace silt and gravel	19.0	S-6	8 8 10	18			
708.5		20.0	20		8 8 10				
		End of Boring @ 20 ft							

SOIL / PAVEMENT BORING 220457.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 7/19/22

Total Depth: 20 ft
 Drilling Date: June 15, 2022
 Inspector:
 Contractor: Strata Drilling, Inc.
 Driller: D. Watkins

Water Level Observation:
 19 feet during drilling operations; wet cave measured at 18 feet upon removal of augers

Notes:
 * Calibrated Hand Penetrometer

Drilling Method:
 2-1/4 inch inside diameter hollow stem auger

Excavation Backfilling Procedure:
 Auger cuttings

Figure No. 5

Project Name: 220 N. Park Street PUD

Project Location: 220 North Park Street
Ypsilanti, Michigan 48198

G2 Project No. 220457

Latitude: N/A Longitude: N/A



Soil Boring No. B-6

CONSULTING GROUP

SUBSURFACE PROFILE				SOIL SAMPLE DATA					
ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 728.0 ft ±	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Silty Sand (18 inches)	1.5						
		Fill: Stiff Brown Silty Clay with trace sand, gravel, and organic matter (Organic Matter Content = 3.4%)	3.0	S-1	2 2	4	24.2		3000*
723.0		Stiff to Very Stiff Brown and Gray Clayey Silt with trace sand and gravel, occasional wet sand seams	5.0	S-2	3 3 3	6	25.9		4000*
		Medium Compact Brown Silty Sand with trace clay and gravel	8.0	S-3	7 7 7	14			
718.0		Hard Brown Silty Clay with trace sand and gravel	10	S-4	7 9 9	18	11.7		9000*
		Gray Silty Clay with trace sand and gravel	14.0						
713.0		Medium Compact Gray Sand with trace silt and gravel	15	S-5	6 7 9	16			
708.0			20.0	S-6	7 9 11	20			
		End of Boring @ 20 ft							

SOIL / PAVEMENT BORING - 220457.GPJ - 20150116 G2 CONSULTING DATA TEMPLATE.GDT - 7/19/22

Total Depth: 20 ft
 Drilling Date: June 15, 2022
 Inspector:
 Contractor: Strata Drilling, Inc.
 Driller: D. Watkins

Water Level Observation:
 4 feet during drilling operations; wet cave measured at 14-1/2 feet upon removal of augers

Notes:
 * Calibrated Hand Penetrometer

Drilling Method:
 2-1/4 inch inside diameter hollow stem auger

Excavation Backfilling Procedure:
 Auger cuttings

Figure No. 6

Project Name: 220 N. Park Street PUD

Project Location: 220 North Park Street
Ypsilanti, Michigan 48198

G2 Project No. 220457

Latitude: N/A Longitude: N/A



Soil Boring No. B-7

CONSULTING GROUP

SUBSURFACE PROFILE

SOIL SAMPLE DATA

ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 737.0 ft ±	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Silty Sand (11 inches)	0.9						
		Fill: Very Loose Black and Dark Brown Silty Sand with trace clay, gravel, and organic matter (Organic Matter Content = 1.7%)	3.0	S-1	2 2 2	4			
		Loose Brown Gravelly Sand with trace clay and silt	4.0						
732.0		Loose Brown Sand with trace silt and gravel, occasional clayey silt layers	5	S-2	2 2 4	6			
				S-3	4 4 4	8			
727.0		Very Stiff Brown and Gray Clayey Silt with trace sand and gravel	10	S-4	4 5 4	9	23.0		4000*
722.0		Stiff Brown and Gray Silty Clay with trace sand and gravel, occasional silt partings	15.0	S-5	6 6 8	14	23.7		5500*
		End of Boring @ 15 ft							
717.0			20						

SOIL / PAVEMENT BORING 220457.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 7/19/22

Total Depth: 15 ft
 Drilling Date: June 16, 2022
 Inspector:
 Contractor: Strata Drilling, Inc.
 Driller: D. Watkins

Water Level Observation:
 3 feet during drilling operations; wet cave measured at 5 feet upon removal of augers

Notes:
 * Calibrated Hand Penetrometer

Drilling Method:
 2-1/4 inch inside diameter hollow stem auger

Excavation Backfilling Procedure:
 Auger cuttings

Figure No. 7

Project Name: 220 N. Park Street PUD

Project Location: 220 North Park Street
Ypsilanti, Michigan 48198

G2 Project No. 220457

Latitude: N/A Longitude: N/A



Soil Boring No. B-8

CONSULTING GROUP

SUBSURFACE PROFILE				SOIL SAMPLE DATA					
ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 738.0 ft ±	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Fill: Loose Brown Sand with trace silt, gravel, and topsoil, clayey seams		S-1	2 3 2	5			
733.0		Loose Brown Sand with trace silt and gravel	5	S-2	2 2 4	6			
		Stiff Brown and Gray Clayey Silt with trace sand and gravel	10	S-4	3 4 5	9			
728.0		Very Stiff Gray Clayey Silt with trace sand and gravel	12.0						
723.0		End of Boring @ 15 ft	15.0	S-5	4 5 5	10	24.3		3000*
					7 7 8	15	18.7		4000*
718.0			20						

Total Depth: 15 ft
 Drilling Date: June 16, 2022
 Inspector:
 Contractor: Strata Drilling, Inc.
 Driller: D. Watkins

Water Level Observation:
 6-1/2 feet during drilling operations; wet cave measured at 7-1/2 feet upon removal of augers

Notes:
 Borehole collapsed at 7-1/2 ft after auger removal
 * Calibrated Hand Penetrometer

Drilling Method:
 2-1/4 inch inside diameter hollow stem auger

Excavation Backfilling Procedure:
 Auger cuttings

Figure No. 8

SOIL / PAVEMENT BORING 220457.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 7/19/22

Project Name: 220 N. Park Street PUD

Project Location: 220 North Park Street
Ypsilanti, Michigan 48198

G2 Project No. 220457

Latitude: N/A Longitude: N/A



Soil Boring No. B-9

CONSULTING GROUP

SUBSURFACE PROFILE

SOIL SAMPLE DATA

ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 737.5 ft ±	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Silty Sand (8 inches)	0.7						
		Fill: Loose Brown Sand with trace silt, gravel, and topsoil	3.0	S-1	3 4 5	9			
732.5		Stiff Brown and Gray Sandy Clay with trace silt, gravel, and occasional sand seams	5	S-2	5 4 4	8	23.6		2000*
		Loose Brown Sand with trace silt and gravel	8.5	S-3	3 4 4	8			
727.5		Stiff to Very Stiff Brown and Gray Clayey Silt with trace sand and gravel	10	S-4	3 6 4	10	27.0		4000*
		Very Stiff Gray Clayey Silt with trace sand and gravel	12.0						
722.5		End of Boring @ 15 ft	15.0	S-5	7 8 9	17	19.2		4000*
717.5			20						

SOIL / PAVEMENT BORING 220457.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 7/19/22

Total Depth: 15 ft
 Drilling Date: June 16, 2022
 Inspector:
 Contractor: Strata Drilling, Inc.
 Driller: D. Watkins

Water Level Observation:
 5-1/2 feet during drilling operations; wet cave measured at 8 feet upon removal of augers

Notes:
 Borehole collapsed at 8 ft after auger removal
 * Calibrated Hand Penetrometer

Drilling Method:
 2-1/4 inch inside diameter hollow stem auger

Excavation Backfilling Procedure:
 Auger cuttings

Figure No. 9

Project Name: 220 N. Park Street PUD

Project Location: 220 North Park Street
Ypsilanti, Michigan 48198

G2 Project No. 220457

Latitude: N/A Longitude: N/A



Soil Boring No. B-10

CONSULTING GROUP

SUBSURFACE PROFILE

SOIL SAMPLE DATA

ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 731.0 ft ±	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Silty Sand (18 inches)	1.5						
		Fill: Loose Black and Dark Brown Clayey Sand with trace silt, gravel, and organic matter (Organic Matter Content = 7.0%)	3.0	S-1	3 4 4	8			
726.0		Fill: Loose Gray Sand with trace silt and gravel	5	S-2	2 2 3	5			
		Fill: Very Loose to Loose Brown Silty Sand with trace clay, gravel, and topsoil (Organic Matter Content = 1.4%)	8.5	S-3	2 2 2	4			
721.0		Stiff to Very Stiff Gray Clayey Silt with trace sand and gravel	10	S-4	3 4 4	8	18.1		4000*
		Hard Gray Silty Clay with little sand and trace gravel	15	S-5	6 7 7	14	9.8		8000*
716.0			20	S-6	6 7 8	15	9.7		8000*
711.0		End of Boring @ 20 ft	20						

SOIL / PAVEMENT BORING 220457.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 7/19/22

Total Depth: 20 ft
 Drilling Date: June 17, 2022
 Inspector:
 Contractor: Strata Drilling, Inc.
 Driller: D. Watkins

Water Level Observation:
 5 feet during drilling operations; dry upon completion

Notes:
 * Calibrated Hand Penetrometer

Drilling Method:
 2-1/4 inch inside diameter hollow stem auger

Excavation Backfilling Procedure:
 Auger cuttings

Figure No. 10

Project Name: 220 N. Park Street PUD

Project Location: 220 North Park Street
Ypsilanti, Michigan 48198

G2 Project No. 220457

Latitude: N/A Longitude: N/A



Soil Boring No. B-11

CONSULTING GROUP

SUBSURFACE PROFILE				SOIL SAMPLE DATA							
ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 728.5 ft ±	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)		
		GROUND SURFACE ELEVATION: 728.5 ft ±									
			Fill: Loose Black Clayey Sand with trace silt, gravel, brick debris, and organic matter (Organic Matter Content = 2.5%)		S-1	2 3 3	6				
723.5			Fill: Very Loose Gray Sand with trace silt, gravel, and organic matter (Organic Matter Content = 3.2%)	5	S-2	1 2 2	4				
				7.0		S-3	2 3 4	7	17.8		2000*
718.5			Medium to Stiff Gray Clayey Silt with trace sand and gravel, occasional sandy silt partings	10	S-4	3 4 4	8	15.1			1000*
				12.0							
713.5			15	S-5	5 7 6	13	10.4		9000*		
708.5			20	S-6	7 7 9	16	12.7		6000*		
			20.0	End of Boring @ 20 ft							

SOIL / PAVEMENT BORING - 220457.GPJ - 20150116 G2 CONSULTING DATA TEMPLATE.GDT - 7/19/22

Total Depth: 20 ft
 Drilling Date: June 17, 2022
 Inspector:
 Contractor: Strata Drilling, Inc.
 Driller: D. Watkins

Water Level Observation:
 5-1/2 feet during drilling operations; 18 feet upon completion

Notes:
 * Calibrated Hand Penetrometer

Drilling Method:
 2-1/4 inch inside diameter hollow stem auger

Excavation Backfilling Procedure:
 Auger cuttings

Figure No. 11

Project Name: 220 N. Park Street PUD

Project Location: 220 North Park Street
Ypsilanti, Michigan 48198

G2 Project No. 220457

Latitude: N/A Longitude: N/A



Soil Boring No. B-12

CONSULTING GROUP

SUBSURFACE PROFILE

SOIL SAMPLE DATA

ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 732.5 ft ±	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Fill: Medium Compact Dark Brown Silty Sand with trace gravel, brick, and concrete debris (Organic Matter Content = 1.7%)	2.5	S-1	4 7 8	15			
727.5		Fill: Loose Brown Silty Sand with trace clay, gravel, and organic matter (Organic Matter Content = 1.9%)	5	S-2	2 2 3	5			
		Stiff to Very Stiff Brown and Gray Clayey Silt with trace sand and gravel	6.5	S-3	2 4 6	10	18.0		3000*
722.5		Stiff to Very Stiff Brown and Gray Clayey Silt with trace sand and gravel	10	S-4	4 5 6	11	16.0		5000*
		Hard Gray Silty Clay with little sand and trace gravel	11.0						
717.5		Hard Gray Silty Clay with little sand and trace gravel	15.0	S-5	5 6 8	14	12.2		9000*
		End of Boring @ 15 ft							
712.5			20						

Total Depth: 15 ft
 Drilling Date: June 17, 2022
 Inspector:
 Contractor: Strata Drilling, Inc.
 Driller: D. Watkins

Water Level Observation:
 6-1/2 feet during drilling operations; dry upon completion

Notes:
 * Calibrated Hand Penetrometer

Drilling Method:
 2-1/4 inch inside diameter hollow stem auger

Excavation Backfilling Procedure:
 Auger cuttings

SOIL / PAVEMENT BORING 220457.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 7/19/22

Figure No. 12

Project Name: 220 N. Park Street PUD

Project Location: 220 North Park Street
Ypsilanti, Michigan 48198

G2 Project No. 220457

Latitude: N/A Longitude: N/A



Soil Boring No. B-13

CONSULTING GROUP

SUBSURFACE PROFILE				SOIL SAMPLE DATA					
ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 737.5 ft ±	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Silty Sand (8 inches)	0.7						
		Fill: Brown Sand	1.5						
		Very Loose Black Peat (Organic Matter Content = 21.9%)	2.0	S-1	2 2 2	4	56.8		
732.5		Medium Compact Brown Silty Sand with trace clay and gravel	5	S-2	3 5 6	11			
			6.0						
		Medium Compact Brown Sandy Silt with trace gravel	10	S-3	5 6 7	13			
727.5									
		Hard Gray Silty Clay with little sand and trace gravel	12.0						
722.5			15.0	S-5	6 7 8	15	10.6		9000*
		End of Boring @ 15 ft							
717.5			20						

SOIL / PAVEMENT BORING 220457.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 7/19/22

Total Depth: 15 ft
 Drilling Date: June 16, 2022
 Inspector:
 Contractor: Strata Drilling, Inc.
 Driller: D. Watkins

Water Level Observation:
 6 feet during drilling operations; wet cave measured at 7-1/2 feet upon removal of augers

Notes:
 Borehole collapsed at 7-1/2 ft after auger removal
 * Calibrated Hand Penetrometer

Drilling Method:
 2-1/4 inch inside diameter hollow stem auger

Excavation Backfilling Procedure:
 Auger cuttings

Figure No. 13

Project Name: 220 N. Park Street PUD

Project Location: 220 North Park Street
Ypsilanti, Michigan 48198

G2 Project No. 220457

Latitude: N/A Longitude: N/A



Soil Boring No. B-14

CONSULTING GROUP

SUBSURFACE PROFILE

SOIL SAMPLE DATA

ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 731.0 ft ±	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Silty Sand (10 inches)	0.8						
		Fill: Loose Dark Brown Gravelly Sand with trace silt and organic matter (Organic Matter Content = 2.9%)	3.0	S-1	2 2 3	5			
726.0		Stiff Brown Clayey Silt with trace sand and gravel	5	S-2	3 3 3	6	19.1		3000*
			5.5						
		Stiff Gray Clayey Silt with trace sand and gravel, occasional wet sand seams	10	S-3	4 4 5	9	22.3		4000*
721.0				S-4	4 5 6	11	21.2		3000*
		Hard Gray Silty Clay with little sand and trace gravel	12.0						
716.0			15.0	S-5	5 8 7	15	9.5		9000*
		End of Boring @ 15 ft							
711.0			20						

SOIL / PAVEMENT BORING 220457.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 7/19/22

Total Depth: 15 ft
 Drilling Date: June 16, 2022
 Inspector:
 Contractor: Strata Drilling, Inc.
 Driller: D. Watkins

Water Level Observation:
 7 feet during drilling operations; 13-1/2 feet upon completion

Notes:
 * Calibrated Hand Penetrometer

Drilling Method:
 2-1/4 inch inside diameter hollow stem auger

Excavation Backfilling Procedure:
 Auger cuttings

Figure No. 14

Project Name: 220 N. Park Street PUD

Project Location: 220 North Park Street
Ypsilanti, Michigan 48198

G2 Project No. 220457

Latitude: N/A Longitude: N/A



Soil Boring No. B-15

CONSULTING GROUP

SUBSURFACE PROFILE

SOIL SAMPLE DATA

ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 734.0 ft ±	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Silty Sand (10 inches)	0.8						
		Fill: Stiff Brown and Gray Silty Clay with little gravel and trace sand	2.5	S-1	3 3 3	6	12.6		3000*
729.0		Stiff Gray Silty Clay with trace sand and gravel, occasional wet sand seams	5	S-2	3 4 3	7	21.5		2000*
			6.5	S-3	3 4 6	10	20.0		2000*
724.0		Stiff to Very Stiff Clayey Silt with trace sand and gravel, occasional wet sand seams	10	S-4	5 4 6	10	20.5		6000*
			11.0						
719.0		Hard Brown and Gray Silty Clay with little sand and trace gravel	15.0	S-5	6 7 9	16	10.3		9000*
		End of Boring @ 15 ft							
714.0			20						

SOIL / PAVEMENT BORING 220457.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 7/19/22

Total Depth: 15 ft
 Drilling Date: June 15, 2022
 Inspector:
 Contractor: Strata Drilling, Inc.
 Driller: D. Watkins

Water Level Observation:
 2 feet during drilling operations; 12-1/2 feet upon completion

Notes:
 * Calibrated Hand Penetrometer

Drilling Method:
 2-1/4 inch inside diameter hollow stem auger

Excavation Backfilling Procedure:
 Auger cuttings

Figure No. 15

Project Name: 220 N. Park Street PUD

Project Location: 220 North Park Street
Ypsilanti, Michigan 48198

G2 Project No. 220457

Latitude: N/A Longitude: N/A



Soil Boring No. B-16

CONSULTING GROUP

SUBSURFACE PROFILE				SOIL SAMPLE DATA						
ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 726.0 ft ±	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)	
721.0		Fill: Medium Compact Dark Brown Silty Sand with trace clay, gravel, and organic matter (Organic Matter Content = 1.8% to 2.1%)	5	S-1	2 4 7	11				
			5.5							
			7.5	Stiff Brown Sandy Clay with trace silt, gravel, and occasional sand seams		S-3	4 5 5	10	14.6	2000*
716.0			10	Loose Brown Silty Sand with trace gravel		S-4	3 4 3	7		
			11.0							
711.0		Hard Brown and Gray Silty Clay with little sand and trace gravel	15	S-5	6 7 7	14	12.1	9000*		
		End of Boring @ 15 ft								
706.0			20							

SOIL / PAVEMENT BORING - 220457.GPJ - 20150116.G2 CONSULTING DATA TEMPLATE.GDT - 7/19/22

Total Depth: 15 ft
 Drilling Date: June 16, 2022
 Inspector:
 Contractor: Strata Drilling, Inc.
 Driller: D. Watkins

Water Level Observation:
 Dry during and upon completion of drilling operations

Notes:
 * Calibrated Hand Penetrometer

Drilling Method:
 2-1/4 inch inside diameter hollow stem auger

Excavation Backfilling Procedure:
 Auger cuttings

Figure No. 16

Project Name: 220 N. Park Street PUD

Project Location: 220 North Park Street
Ypsilanti, Michigan 48198

G2 Project No. 220457

Latitude: N/A Longitude: N/A



Soil Boring No. B-17

CONSULTING GROUP

SUBSURFACE PROFILE				SOIL SAMPLE DATA						
ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 724.5 ft ±	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)	
		Fill: Loose Dark Brown Silty Sand with trace gravel and organic matter (Organic Matter Content = 2.4%)								
			3.0	S-1	3 4 3	7				
719.5					S-2	2 2 3	5			
			6.0							
		Fill: Loose Brown and Dark Brown Clayey Sand with trace silt, gravel, and organic matter (Organic Matter Content = 3.3%)								
			7.5	S-3	4 3 3	6				
		Loose Brown Silty Sand with trace clay and gravel								
714.5					S-4	4 5 5	10			
			10.0	10						
		End of Boring @ 10 ft								
709.5			15							
704.5			20							

Total Depth: 10 ft
Drilling Date: June 16, 2022

Inspector:
Contractor: Strata Drilling, Inc.
Driller: D. Watkins

Water Level Observation:
Dry during and upon completion of drilling operations

Excavation Backfilling Procedure:
Auger cuttings

Drilling Method:
2-1/4 inch inside diameter hollow stem auger

Figure No. 17

SOIL / PAVEMENT BORING 220457.GPJ 20150116 G2 CONSULTING DATA TEMPLATE.GDT 7/19/22

Project Name: 220 N. Park Street PUD

Project Location: 220 North Park Street
Ypsilanti, Michigan 48198

G2 Project No. 220457

Latitude: N/A Longitude: N/A



Soil Boring No. B-18

CONSULTING GROUP

SUBSURFACE PROFILE				SOIL SAMPLE DATA					
ELEV. (ft)	PRO-FILE	GROUND SURFACE ELEVATION: 727.0 ft ±	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Fill: Loose Dark Brown Clayey Sand with trace gravel, brick debris, and organic matter (Organic Matter Content = 2.2%)		S-1	2 2 4	6			
722.0	▽	Loose Brown Sand with trace silt and gravel	5.0	5	S-2	2 3 2	5		
	▼	Loose Gray Sand with trace silt and gravel	8.0		S-3	2 3 4	7		
717.0		Stiff Gray Silty Clay with little sand and trace gravel	10.0	10	S-4	4 5 6	11	11.4	3000*
		End of Boring @ 10 ft							
712.0			15						
707.0			20						

Total Depth: 10 ft
 Drilling Date: June 17, 2022
 Inspector:
 Contractor: Strata Drilling, Inc.
 Driller: D. Watkins

Water Level Observation:
 5 feet during drilling operations; 7-1/2 feet upon completion

Notes:
 * Calibrated Hand Penetrometer

Drilling Method:
 2-1/4 inch inside diameter hollow stem auger

Excavation Backfilling Procedure:
 Auger cuttings

SOIL / PAVEMENT BORING - 220457.GPJ - 20150116 G2 CONSULTING DATA TEMPLATE.GDT - 7/19/22

Figure No. 18

GENERAL NOTES TERMINOLOGY

Unless otherwise noted, all terms herein refer to the Standard Definitions presented in ASTM 653.

PARTICLE SIZE

Boulders	- greater than 12 inches
Cobbles	- 3 inches to 12 inches
Gravel - Coarse	- 3/4 inches to 3 inches
- Fine	- No. 4 to 3/4 inches
Sand - Coarse	- No. 10 to No. 4
- Medium	- No. 40 to No. 10
- Fine	- No. 200 to No. 40
Silt	- 0.005mm to 0.074mm
Clay	- Less than 0.005mm

CLASSIFICATION

The major soil constituent is the principal noun, i.e. clay, silt, sand, gravel. The second major soil constituent and other minor constituents are reported as follows:

Second Major Constituent (percent by weight)	Minor Constituent (percent by weight)
Trace - 1 to 12%	Trace - 1 to 12%
Adjective - 12 to 35%	Little - 12 to 23%
And - over 35%	Some - 23 to 33%

COHESIVE SOILS

If clay content is sufficient so that clay dominates soil properties, clay becomes the principal noun with the other major soil constituent as modifier, i.e. sandy clay. Other minor soil constituents may be included in accordance with the classification breakdown for cohesionless soils, i.e. silty clay, trace sand, little gravel.

Consistency	Unconfined Compressive Strength (psf)	Approximate Range of (N)
Very Soft	Below 500	0 - 2
Soft	500 - 1,000	3 - 4
Medium	1,000 - 2,000	5 - 8
Stiff	2,000 - 4,000	9 - 15
Very Stiff	4,000 - 8,000	16 - 30
Hard	8,000 - 16,000	31 - 50
Very Hard	Over 16,000	Over 50

Consistency of cohesive soils is based upon an evaluation of the observed resistance to deformation under load and not upon the Standard Penetration Resistance (N).

Density Classification	COHESIONLESS SOILS Relative Density %	Approximate Range of (N)
Very Loose	0 - 15	0 - 4
Loose	16 - 35	5 - 10
Medium Compact	36 - 65	11 - 30
Compact	66 - 85	31 - 50
Very Compact	86 - 100	Over 50

Relative Density of cohesionless soils is based upon the evaluation of the Standard Penetration Resistance (N), modified as required for depth effects, sampling effects, etc.

SAMPLE DESIGNATIONS

AS -	Auger Sample - Cuttings directly from auger flight
BS -	Bottle or Bag Samples
S -	Split Spoon Sample - ASTM D 1586
LS -	Liner Sample with liner insert 3 inches in length
ST -	Shelby Tube sample - 3 inch diameter unless otherwise noted
PS -	Piston Sample - 3 inch diameter unless otherwise noted
RC -	Rock Core - NX core unless otherwise noted

STANDARD PENETRATION TEST (ASTM D 1586) - A 2.0 inch outside-diameter, 1-3/8 inch inside-diameter split barrel sampler is driven into undisturbed soil by means of a 140-pound weight falling freely through a vertical distance of 30 inches. The sampler is normally driven three successive 6-inch increments. The total number of blows required for the final 12 inches of penetration is the Standard Penetration Resistance (N).

Appendix B

Soil Boring Logs



BORING LOG

220 N. Park Street

Ypsilanti, Michigan

AKT Peerless Project No: 10627F3-1-20

DB-3

Drawn By: C. Jump
Date: 9/29/2022

DRILLING COMPANY:	Terraprobe	WEATHER:	56 °F, Cloudy
TECHNICIAN:	J. Schaffer	BORING DEPTH:	5 feet bgs
DATE DRILLED:	9/29/2022	DEPTH TO GW:	Not encountered
DRILLING METHOD:	Geoprobe	SCREEN INTERVAL:	Not applicable
FIELD GEOLOGIST:	C. Jump	SCREEN MATERIAL:	Not applicable

DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	PID VALUE	USCS SOIL CLASS.	COLOR	GEOLOGIC DESCRIPTION	MOISTURE	TEMPORARY WELL DIAGRAM
					Dk. Brown	TOPSOIL	D	
					Lt. Brown	FILL: Sand and clay, trace brick and concrete	D	
2		70	<0.1				D	
				SM	Black	SILT: Organics, trace clay	D	
4					Gray	FILL: Sand and gravel	D	
						End of Boring at 5 feet bgs	D	
6								
8								
10								
12								
14								
16								
18								
20								



BORING LOG

220 N. Park Street

Ypsilanti, Michigan

AKT Peerless Project No: 10627F3-1-20

DB-4

Drawn By: C. Jump

Date: 9/29/2022

DRILLING COMPANY:	Terraprobe	WEATHER:	56 °F, Cloudy
TECHNICIAN:	J. Schaffer	BORING DEPTH:	9 feet bgs
DATE DRILLED:	9/29/2022	DEPTH TO GW:	Not encountered
DRILLING METHOD:	Geoprobe	SCREEN INTERVAL:	Not applicable
FIELD GEOLOGIST:	C. Jump	SCREEN MATERIAL:	Not applicable

DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	PID VALUE	USCS SOIL CLASS.	COLOR	GEOLOGIC DESCRIPTION	MOISTURE	TEMPORARY WELL DIAGRAM
					Dk. Brown	TOPSOIL	D	
					Black	FILL: Sand and clay, trace brick and concrete	D	
2		60	<0.1		Dk. Brown	Clayey, trace gravel and silt		
4							D	
6				CL	Black	CLAY: Silty, stiff	D	
					Gray	Sandy, stiff	D	
		70	<0.1				M	
8				SW	Lt. Gray	SAND: Gravelly, trace clay	M	
							M	
10						End of Boring at 9 feet bgs		
12								
14								
16								
18								
20								



BORING LOG

220 N. Park Street

Ypsilanti, Michigan

AKT Peerless Project No: 10627F3-1-20

DB-6

Drawn By: C. Jump
Date: 9/29/2022

DRILLING COMPANY:	Terraprobe	WEATHER:	56 °F, Cloudy
TECHNICIAN:	J. Schaffer	BORING DEPTH:	8 feet bgs
DATE DRILLED:	9/29/2022	DEPTH TO GW:	Not encountered
DRILLING METHOD:	Geoprobe	SCREEN INTERVAL:	Not applicable
FIELD GEOLOGIST:	C. Jump	SCREEN MATERIAL:	Not applicable

DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	PID VALUE	USCS SOIL CLASS.	COLOR	GEOLOGIC DESCRIPTION	MOISTURE	TEMPORARY WELL DIAGRAM
					Dk. Brown	TOPSOIL	D	
2		80	<0.1		Dk. Brown	FILL: Gravel and sand, trace brick	D	
4					Tan	Sandy, trace gravel		
					Dk. Brown	Sand and gravel, trace brick and concrete		
6		100	<0.1	SP	Lt. Brown	SAND: Fine to coarse-grained, trace clay and gravel	M	
					Dk. Brown			
8						End of Boring at 8 feet bgs	M	
10								
12								
14								
16								
18								
20								



BORING LOG

220 N. Park Street

Ypsilanti, Michigan

AKT Peerless Project No: 10627F3-1-20

DB-11

Drawn By: C. Jump

Date: 9/29/2022

DRILLING COMPANY:	Terraprobe	WEATHER:	56 °F, Cloudy
TECHNICIAN:	J. Schaffer	BORING DEPTH:	13 feet bgs
DATE DRILLED:	9/29/2022	DEPTH TO GW:	Not encountered
DRILLING METHOD:	Geoprobe	SCREEN INTERVAL:	Not applicable
FIELD GEOLOGIST:	C. Jump	SCREEN MATERIAL:	Not applicable

DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	PID VALUE	USCS SOIL CLASS.	COLOR	GEOLOGIC DESCRIPTION	MOISTURE	TEMPORARY WELL DIAGRAM
					Dk. Brown	TOPSOIL	D	TEMPORARY WELL DIAGRAM
					Dk. Gray	FILL: Sand and gravel, trace concrete and brick	D	
2		40	<0.1				D	
4				OL	Black	CLAY: Soft, roots, trace silt and gravel	M	
					Lt. Brown	FILL: Sand and clay, trace brick and concrete	D	
6		50	<0.1		Gray		D	
8				CL	Brown	CLAY: Stiff, trace sand and silt	M	
10		80	<0.1				D	
12							M	
						End of Boring at 13 feet bgs		
14								
16								
18								
20								



BORING LOG

220 N. Park Street

Ypsilanti, Michigan

AKT Peerless Project No: 10627F3-1-20

DB-12

Drawn By: C. Jump
Date: 9/29/2022

DRILLING COMPANY:	Terraprobe	WEATHER:	56 °F, Cloudy
TECHNICIAN:	J. Schaffer	BORING DEPTH:	13 feet bgs
DATE DRILLED:	9/29/2022	DEPTH TO GW:	Not encountered
DRILLING METHOD:	Geoprobe	SCREEN INTERVAL:	Not applicable
FIELD GEOLOGIST:	C. Jump	SCREEN MATERIAL:	Not applicable

DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	PID VALUE	USCS SOIL CLASS.	COLOR	GEOLOGIC DESCRIPTION	MOISTURE	TEMPORARY WELL DIAGRAM
					Dk. Brown	TOPSOIL	D	
					Lt. Brown	FILL: Sand and gravel, trace concrete	D	
2		50	<0.1		Gray		D	
4				CL	Brown	CLAY: Sandy, medium soft	M	
					Black	FILL: Sand and gravel, peastone, brick	D	
6					Gray			
8		30	<0.1					
10				CL	Lt. Brown	CLAY: Stiff, trace sand and silt	M	
12		60	<0.1					
14						End of Boring at 13 feet bgs	M	
16								
18								
20								



BORING LOG

220 N. Park Street

Ypsilanti, Michigan

AKT Peerless Project No: 10627F3-1-20

DB-13

Drawn By: C. Jump
Date: 9/29/2022

DRILLING COMPANY:	Terraprobe	WEATHER:	56 °F, Cloudy
TECHNICIAN:	J. Schaffer	BORING DEPTH:	5 feet bgs
DATE DRILLED:	9/29/2022	DEPTH TO GW:	Not encountered
DRILLING METHOD:	Geoprobe	SCREEN INTERVAL:	Not applicable
FIELD GEOLOGIST:	C. Jump	SCREEN MATERIAL:	Not applicable

DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	PID VALUE	USCS SOIL CLASS.	COLOR	GEOLOGIC DESCRIPTION	MOISTURE	TEMPORARY WELL DIAGRAM
					Dk. Brown	TOPSOIL	D	
				SW	Dk. Brown	SAND: Gravelly, medium to coarse-grained	D	
2		60	<0.1		Black		D	
				CL	Lt. Brown	CLAY: Sandy, stiff, trace silt and gravel	D	
4							D	
						End of Boring at 5 feet bgs		
6								
8								
10								
12								
14								
16								
18								
20								



BORING LOG

220 N. Park Street

Ypsilanti, Michigan

AKT Peerless Project No: 10627F3-1-20

B-1-E

Drawn By: C. Jump

Date: 9/29/2022

DRILLING COMPANY:	Terraprobe	WEATHER:	56 °F, Cloudy
TECHNICIAN:	J. Schaffer	BORING DEPTH:	8 feet bgs
DATE DRILLED:	9/29/2022	DEPTH TO GW:	Not encountered
DRILLING METHOD:	Geoprobe	SCREEN INTERVAL:	Not applicable
FIELD GEOLOGIST:	C. Jump	SCREEN MATERIAL:	Not applicable

DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	PID VALUE	USCS SOIL CLASS.	COLOR	GEOLOGIC DESCRIPTION	MOISTURE	TEMPORARY WELL DIAGRAM
					Dk. Brown	TOPSOIL	D	
2		50	<0.1		Dk. Brown	FILL: Silty sand, trace clay and gravel	D	
					Black		D	
4				SC	Gray	SAND: Medium to fine-grained, clayey, trace silt and gravel	M	
							M	
6		60	<0.1	CL	Gray	CLAY: Sandy, medium soft, trace silt and gravel	M	
8						End of Boring at 8 feet bgs	M	
10								
12								
14								
16								
18								
20								



BORING LOG

220 N. Park Street

Ypsilanti, Michigan

AKT Peerless Project No: 10627F3-1-20

B-10-E

Drawn By: C. Jump

Date: 9/29/2022

DRILLING COMPANY:	Terraprobe	WEATHER:	56 °F, Cloudy
TECHNICIAN:	J. Schaffer	BORING DEPTH:	8 feet bgs
DATE DRILLED:	9/29/2022	DEPTH TO GW:	Not encountered
DRILLING METHOD:	Geoprobe	SCREEN INTERVAL:	Not applicable
FIELD GEOLOGIST:	C. Jump	SCREEN MATERIAL:	Not applicable

DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	PID VALUE	USCS SOIL CLASS.	COLOR	GEOLOGIC DESCRIPTION	MOISTURE	TEMPORARY WELL DIAGRAM
					Dk. Brown	TOPSOIL	D	
2		60	<0.1		Dk. Brown	FILL: Silty sand, trace clay and gravel	D	
					Black			
4					Gray	Sandy, trace silt and gravel		
6		60	<0.1		Brown	Silty sand, trace clay and gravel		
8						End of Boring at 8 feet bgs	D	
10								
12								
14								
16								
18								
20								



BORING LOG

220 N. Park Street

Ypsilanti, Michigan

AKT Peerless Project No: 10627F3-1-20

B-12-E

Drawn By: C. Jump
Date: 9/29/2022

DRILLING COMPANY:	Terraprobe	WEATHER:	56 °F, Cloudy
TECHNICIAN:	J. Schaffer	BORING DEPTH:	8 feet bgs
DATE DRILLED:	9/29/2022	DEPTH TO GW:	Not encountered
DRILLING METHOD:	Geoprobe	SCREEN INTERVAL:	Not applicable
FIELD GEOLOGIST:	C. Jump	SCREEN MATERIAL:	Not applicable

DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	PID VALUE	USCS SOIL CLASS.	COLOR	GEOLOGIC DESCRIPTION	MOISTURE	TEMPORARY WELL DIAGRAM
					Dk. Brown	TOPSOIL	D	
2		50	<0.1		Dk. Brown	FILL: Silty sand, trace gravel, brick and concrete	D	
4								
6		70	<0.1				D	
				OL	Gray	CLAY: Silty, stiff, trace sand and gravel	M	
8						End of Boring at 8 feet bgs	M	
10								
12								
14								
16								
18								
20								



BORING LOG

220 N. Park Street

Ypsilanti, Michigan

AKT Peerless Project No: 10627F3-1-20

B-18-E

Drawn By: C. Jump

Date: 9/29/2022

DRILLING COMPANY:	Terraprobe	WEATHER:	56 °F, Cloudy
TECHNICIAN:	J. Schaffer	BORING DEPTH:	8 feet bgs
DATE DRILLED:	9/29/2022	DEPTH TO GW:	Not encountered
DRILLING METHOD:	Geoprobe	SCREEN INTERVAL:	Not applicable
FIELD GEOLOGIST:	C. Jump	SCREEN MATERIAL:	Not applicable

DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	PID VALUE	USCS SOIL CLASS.	COLOR	GEOLOGIC DESCRIPTION	MOISTURE	TEMPORARY WELL DIAGRAM
					Dk. Brown	TOPSOIL	D	
					Dk. Brown	FILL: Clayey sand, trace gravel and brick	D	
2		50	<0.1				D	
4				SP	Brown	SAND: Medium-coarse, trace silt and gravel	D	
6		50	<0.1		Gray		D M	
8						End of Boring at 8 feet bgs	M	
10								
12								
14								
16								
18								
20								

Appendix C

Analytical Laboratory Reports and Chain of Custody Documentation



10-Oct-2022

Collin Jump
AKT Peerless
22725 Orchard Lake Road
Farmington, MI 48336

Re: **Renovare Development**

Work Order: **22092946**

Dear Collin,

ALS Environmental received 19 samples on 29-Sep-2022 09:00 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 140.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Julienn Williams

Julienn Williams
Project Manager

Report of Laboratory Analysis

Certificate No: MI: 0022

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Client: AKT Peerless
 Project: Renovare Development
 Work Order: 22092946

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
22092946-01	B-1-E (1-3')	Soil		9/28/2022 09:15	9/29/2022 21:00	<input type="checkbox"/>
22092946-02	B-10-E (1-3')	Soil		9/28/2022 09:40	9/29/2022 21:00	<input type="checkbox"/>
22092946-03	B-12-E (2-4')	Soil		9/28/2022 09:55	9/29/2022 21:00	<input type="checkbox"/>
22092946-04	B-18-E (2-4')	Soil		9/28/2022 10:15	9/29/2022 21:00	<input type="checkbox"/>
22092946-05	DB-1 (1-3')	Soil		9/28/2022 10:30	9/29/2022 21:00	<input type="checkbox"/>
22092946-06	DB-2 (2-4')	Soil		9/28/2022 10:40	9/29/2022 21:00	<input type="checkbox"/>
22092946-07	DB-3 (1-3')	Soil		9/28/2022 10:50	9/29/2022 21:00	<input type="checkbox"/>
22092946-08	DB-4 (1-3')	Soil		9/28/2022 11:00	9/29/2022 21:00	<input type="checkbox"/>
22092946-09	DB-5 (2-4')	Soil		9/28/2022 11:15	9/29/2022 21:00	<input type="checkbox"/>
22092946-10	DB-6 (2-4')	Soil		9/28/2022 11:30	9/29/2022 21:00	<input type="checkbox"/>
22092946-11	DB-7 (4-6')	Soil		9/28/2022 11:45	9/29/2022 21:00	<input type="checkbox"/>
22092946-12	DB-8 (4-6')	Soil		9/28/2022 12:05	9/29/2022 21:00	<input type="checkbox"/>
22092946-13	DB-9 (2-4')	Soil		9/28/2022 12:20	9/29/2022 21:00	<input type="checkbox"/>
22092946-14	DB-10 (2-4')	Soil		9/28/2022 12:25	9/29/2022 21:00	<input type="checkbox"/>
22092946-15	DB-11 (3-5')	Soil		9/28/2022 12:45	9/29/2022 21:00	<input type="checkbox"/>
22092946-16	DB-12 (3-5')	Soil		9/28/2022 13:10	9/29/2022 21:00	<input type="checkbox"/>
22092946-17	DB-13 (1-3')	Soil		9/28/2022 13:25	9/29/2022 21:00	<input type="checkbox"/>
22092946-18	DB-14 (1-3')	Soil		9/28/2022 13:35	9/29/2022 21:00	<input type="checkbox"/>
22092946-19	Trip Blank	Soil		9/28/2022	9/29/2022 21:00	<input type="checkbox"/>

Client: AKT Peerless
Project: Renovare Development
WorkOrder: 22092946

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight

Client: AKT Peerless
Project: Renovare Development
Work Order: 22092946

Case Narrative

The attached "Sample Receipt Checklist" documents the date of receipt, status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. A copy of the laboratory's scope of accreditation is available upon request.

Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

Any flags on MS/MSD samples not addressed in this narrative are unrelated to samples in this report.

With the following exceptions, all sample analyses achieved analytical criteria.

Batch 204177, Method SW8260C, Sample 22092946-18A MS: Low surrogate in MS/MSD, surrogate low in parent confirmed by reextraction.

Batch 204177, Method SW8260C, Sample 22092946-18A MSD: Low surrogate in MS/MSD, surrogate low in parent confirmed by reextraction.

Batch 204162, Method SW8082A, Sample B-1-E (1-3') (22092946-01B): One or more surrogate recoveries were below the lower control limits. The sample results may be biased low. Tetrachloro-m-xylene

Batch 204137, Method SW6020B, Sample B-18-E (2-4') (22092946-04B): The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Se

Batch 204189, Method SW8082A, Sample DB-9 (2-4') (22092946-13B): One or more surrogate recoveries were below the lower control limits. The sample results may be biased low. Tetrachloro-m-xylene

Batch 204177, Method SW8260C, Sample DB-14 (1-3') (22092946-18A): Low surrogate recovery due to sample matrix effects confirmed by re-extraction.

Client: AKT Peerless
Project: Renovare Development
Work Order: 22092946

Case Narrative

Batch 204209, Method SW846 8270D, Sample DB-14 (1-3') (22092946-18B): One or more of the surrogates were below the limits due to matrix interference

Batch 204209, Method SW846 8270D, Sample DB-9 (2-4') (22092946-13B): The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

Batch 204209, Method SW846 8270D, Sample DB-10 (2-4') (22092946-14B): The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

Batch 204209, Method SW846 8270D, Sample DB-11 (3-5') (22092946-15B): The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

Batch 204209, Method SW846 8270D, Sample DB-12 (3-5') (22092946-16B): The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

Batch 204377, Method SW8082A, Sample DB-3 (1-3') (22092946-07B): Low surrogate recovery due to sample matrix effects confirmed by re-extraction.

Batch 204377, Method SW8082A, Sample DB-5 (2-4') (22092946-09B): Low surrogate recovery due to sample matrix effects confirmed by re-extraction.

Batch 204377, Method SW8082A, Sample DB-6 (2-4') (22092946-10B): Low surrogate recovery due to sample matrix effects confirmed by re-extraction.

Batch 204377, Method SW8082A, Sample DB-10 (2-4') (22092946-14B): Low surrogate recovery due to sample matrix effects confirmed by re-extraction.

Batch 204377, Method SW8082A, Sample DB-14 (1-3') (22092946-18B): Low surrogate recovery due to sample matrix effects confirmed by re-extraction.

Batch 204137, Method SW6020B, Sample 22092946-16BMSD: The RPD between the MS and MSD was outside of the control limit. The corresponding result should be considered estimated for this compound: Cu

Batch 204177, Method SW8260C, Sample 22092946-18A MSD: The RPD between the MS and MSD was outside of the control limit. The corresponding result should be considered estimated for this compound: methyl acetate, cis-1,2-dichloroethane, t-butanol

Batch 204177, Method SW8260C, Sample 22092946-18A MS: The MS recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: See Qc report

Client: AKT Peerless
Project: Renovare Development
Work Order: 22092946

Case Narrative

Batch 204137, Method SW6020B, Sample 22092946-16BMS: The MS recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: Ag

Batch 204116, Method SW7471B, Sample 22092301-51AMS: MS and MSD are for an unrelated sample

Batch 204177, Method SW8260C, Sample 22092946-18A MSD: The MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: t-butanol, 1,1-dichloroethane, 1,1,2,2-tetrachloroethane

Batch 204137, Method SW6020B, Sample 22092946-16BMSD: The MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: Ag

Batch 204137, Method SW6020B, Sample 22092946-16BMS: The MS recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Ba, Cr, Cu, Ni

Batch 204137, Method SW6020B, Sample 22092946-16BMSD: The MSD recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Ba, Cr, Ni

Batch 204137, Method SW6020B, Sample 22092946-16BMSD: The MSD recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Cu

Batch 204162, Method SW3546, Sample B-10-E (1-3') (22092946-02B): Reduced due to very dark soil which could be potentially hazardous to the microwave

Batch 204162, Method SW3546, Sample B-18-E (2-4') (22092946-04B): Reduced due to high moisture content

Batch 204174, Method SW3546, Sample B-18-E (2-4') (22092946-04B): reduced due to high moisture content

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-01

Client Sample ID: B-1-E (1-3')
Collection Date: 9/28/2022 9:15:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS			SW8082A		Prep Date: 10/3/2022	Analyst: RM	
Aroclor 1016	ND	330	330		µg/Kg-dry	1	10/3/2022
Aroclor 1221	ND	330	330		µg/Kg-dry	1	10/3/2022
Aroclor 1232	ND	330	330		µg/Kg-dry	1	10/3/2022
Aroclor 1242	ND	330	330		µg/Kg-dry	1	10/3/2022
Aroclor 1248	ND	330	330		µg/Kg-dry	1	10/3/2022
Aroclor 1254	ND	330	330		µg/Kg-dry	1	10/3/2022
Aroclor 1260	ND	330	330		µg/Kg-dry	1	10/3/2022
Aroclor 1262	ND	330	330		µg/Kg-dry	1	10/3/2022
Aroclor 1268	ND	330	330		µg/Kg-dry	1	10/3/2022
Surr: Decachlorobiphenyl	79.5	68-137			%REC	1	10/3/2022
Surr: Tetrachloro-m-xylene	65.0	71-123		S	%REC	1	10/3/2022
MERCURY BY CVAA			SW7471B		Prep Date: 9/30/2022	Analyst: KRA	
Mercury	72	50	50		µg/Kg-dry	1	10/3/2022
METALS BY ICP-MS			SW6020B		Prep Date: 10/3/2022	Analyst: STP	
Arsenic	3,800	2,000	2,000		µg/Kg-dry	1	10/3/2022
Barium	45,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Cadmium	ND	200	200		µg/Kg-dry	1	10/3/2022
Chromium	8,100	2,000	2,000		µg/Kg-dry	1	10/3/2022
Copper	14,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Lead	60,000	10,000	10,000		µg/Kg-dry	1	10/3/2022
Selenium	520	390	200		µg/Kg-dry	1	10/4/2022
Silver	ND	390	100		µg/Kg-dry	1	10/3/2022
Zinc	45,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep Date: 10/3/2022	Analyst: EEW	
1,2,4-Trichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,2-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,3-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,4-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4,5-Trichlorophenol	ND	300	300		µg/Kg-dry	1	10/4/2022
2,4,6-Trichlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dichlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dimethylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dinitrophenol	ND	830	830		µg/Kg-dry	1	10/4/2022
2,4-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	10/4/2022
2,6-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Chlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development
 Lab ID: 22092946-01

Client Sample ID: B-1-E (1-3')
 Collection Date: 9/28/2022 9:15:00 AM
 Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Methylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
2-Nitrophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
3&4-Methylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
3,3'-Dichlorobenzidine	ND	2,000	2,000		µg/Kg-dry	1	10/4/2022
3-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
4,6-Dinitro-2-methylphenol	ND	830	830		µg/Kg-dry	1	10/4/2022
4-Bromophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Chloro-3-methylphenol	ND	280	280		µg/Kg-dry	1	10/4/2022
4-Chloroaniline	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Chlorophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
4-Nitrophenol	ND	830	830		µg/Kg-dry	1	10/4/2022
Acenaphthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Acenaphthylene	ND	330	330		µg/Kg-dry	1	10/4/2022
Anthracene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(a)anthracene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(a)pyrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(b)fluoranthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-chloroethoxy)methane	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-chloroethyl)ether	ND	100	100		µg/Kg-dry	1	10/4/2022
Bis(2-chloroisopropyl)ether	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-ethylhexyl)phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Butyl benzyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Carbazole	ND	330	330		µg/Kg-dry	1	10/4/2022
Chrysene	ND	330	330		µg/Kg-dry	1	10/4/2022
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	10/4/2022
Dibenzofuran	ND	330	330		µg/Kg-dry	1	10/4/2022
Diethyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Dimethyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Di-n-butyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Di-n-octyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Fluoranthene	330	330	330		µg/Kg-dry	1	10/4/2022
Fluorene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachlorobutadiene	ND	50	50		µg/Kg-dry	1	10/4/2022
Hexachlorocyclopentadiene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/4/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-01

Client Sample ID: B-1-E (1-3')
Collection Date: 9/28/2022 9:15:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Isophorone	ND	330	330		µg/Kg-dry	1	10/4/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
Nitrobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
N-Nitrosodi-n-propylamine	ND	330	330		µg/Kg-dry	1	10/4/2022
N-Nitrosodiphenylamine	ND	330	330		µg/Kg-dry	1	10/4/2022
Pentachlorophenol	ND	35	20		µg/Kg-dry	1	10/4/2022
Phenanthrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Phenol	ND	330	330		µg/Kg-dry	1	10/4/2022
Pyrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Surr: 2,4,6-Tribromophenol	67.2	48-94			%REC	1	10/4/2022
Surr: 2-Fluorobiphenyl	62.1	50-103			%REC	1	10/4/2022
Surr: 2-Fluorophenol	56.8	43-105			%REC	1	10/4/2022
Surr: 4-Terphenyl-d14	69.1	55-111			%REC	1	10/4/2022
Surr: Nitrobenzene-d5	56.2	47-100			%REC	1	10/4/2022
Surr: Phenol-d6	61.6	49-110			%REC	1	10/4/2022

VOLATILE ORGANIC COMPOUNDS

SW8260C

Prep Date: 10/3/2022

Analyst: **BG**

1,1,1,2-Tetrachloroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1,1-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2,2-Tetrachloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichlorotrifluoroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
1,2,3-Trichloropropane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2,4-Trichlorobenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
1,2,4-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dibromo-3-chloropropane	ND	130	10		µg/Kg-dry	1	10/6/2022
1,2-Dibromoethane	ND	38	20		µg/Kg-dry	1	10/6/2022
1,2-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dichloroethane	ND	130	50		µg/Kg-dry	1	10/6/2022
1,2-Dichloropropane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,3,5-Trimethylbenzene	ND	130	100		µg/Kg-dry	1	10/6/2022
1,3-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,4-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
2-Butanone	ND	750	750		µg/Kg-dry	1	10/6/2022
2-Hexanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
4-Methyl-2-pentanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
Acetone	ND	1,000	1,000		µg/Kg-dry	1	10/6/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-01

Client Sample ID: B-1-E (1-3')
Collection Date: 9/28/2022 9:15:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Acrylonitrile	ND	130	100		µg/Kg-dry	1	10/6/2022
Benzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Bromodichloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromoform	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromomethane	ND	200	200		µg/Kg-dry	1	10/6/2022
Carbon disulfide	ND	250	250		µg/Kg-dry	1	10/6/2022
Carbon tetrachloride	ND	50	50		µg/Kg-dry	1	10/6/2022
Chlorobenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloroethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Chloroform	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
cis-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
cis-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Dibromochloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Dibromomethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Dichlorodifluoromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Diethyl ether	ND	200	200		µg/Kg-dry	1	10/6/2022
Ethylbenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/6/2022
Isopropylbenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
m,p-Xylene	ND	100	100		µg/Kg-dry	1	10/6/2022
Methyl tert-butyl ether	ND	250	250		µg/Kg-dry	1	10/6/2022
Methylene chloride	ND	320	100		µg/Kg-dry	1	10/6/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
n-Propylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
o-Xylene	ND	50	50		µg/Kg-dry	1	10/6/2022
Styrene	ND	50	50		µg/Kg-dry	1	10/6/2022
Tetrachloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Toluene	ND	100	100		µg/Kg-dry	1	10/6/2022
trans-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
trans-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichlorofluoromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Vinyl acetate	ND	5,000	5,000		µg/Kg-dry	1	10/6/2022
Vinyl chloride	ND	40	40		µg/Kg-dry	1	10/6/2022
Xylenes, Total	ND	150	150		µg/Kg-dry	1	10/6/2022
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>106</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>97.5</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>
<i>Surr: Dibromofluoromethane</i>	<i>97.0</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>
<i>Surr: Toluene-d8</i>	<i>101</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-01

Client Sample ID: B-1-E (1-3')
Collection Date: 9/28/2022 9:15:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MOISTURE			SW3550C				Analyst: ALG
Moisture	6.4	0.10	0		% of sample	1	10/3/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-02

Client Sample ID: B-10-E (1-3')
Collection Date: 9/28/2022 9:40:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS			SW8082A		Prep Date: 10/3/2022	Analyst: RM	
Aroclor 1016	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1221	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1232	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1242	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1248	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1254	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1260	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1262	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1268	ND	330	330		µg/Kg-dry	1	10/4/2022
Surr: Decachlorobiphenyl	77.8	68-137			%REC	1	10/4/2022
Surr: Tetrachloro-m-xylene	99.2	71-123			%REC	1	10/4/2022
MERCURY BY CVAA			SW7471B		Prep Date: 9/30/2022	Analyst: KRA	
Mercury	110	50	50		µg/Kg-dry	1	10/3/2022
METALS BY ICP-MS			SW6020B		Prep Date: 10/3/2022	Analyst: STP	
Arsenic	3,000	2,000	2,000		µg/Kg-dry	1	10/3/2022
Barium	46,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Cadmium	460	200	200		µg/Kg-dry	1	10/3/2022
Chromium	8,100	2,000	2,000		µg/Kg-dry	1	10/3/2022
Copper	16,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Lead	44,000	10,000	10,000		µg/Kg-dry	1	10/3/2022
Selenium	2,100	490	200		µg/Kg-dry	1	10/4/2022
Silver	ND	490	100		µg/Kg-dry	1	10/3/2022
Zinc	48,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep Date: 10/3/2022	Analyst: EEW	
1,2,4-Trichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,2-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,3-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,4-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4,5-Trichlorophenol	ND	300	300		µg/Kg-dry	1	10/4/2022
2,4,6-Trichlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dichlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dimethylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dinitrophenol	ND	870	830		µg/Kg-dry	1	10/4/2022
2,4-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	10/4/2022
2,6-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Chlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-02

Client Sample ID: B-10-E (1-3')
Collection Date: 9/28/2022 9:40:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Methylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
2-Nitrophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
3&4-Methylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
3,3'-Dichlorobenzidine	ND	2,000	2,000		µg/Kg-dry	1	10/4/2022
3-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
4,6-Dinitro-2-methylphenol	ND	830	830		µg/Kg-dry	1	10/4/2022
4-Bromophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Chloro-3-methylphenol	ND	280	280		µg/Kg-dry	1	10/4/2022
4-Chloroaniline	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Chlorophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
4-Nitrophenol	ND	830	830		µg/Kg-dry	1	10/4/2022
Acenaphthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Acenaphthylene	ND	330	330		µg/Kg-dry	1	10/4/2022
Anthracene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(a)anthracene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(a)pyrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(b)fluoranthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-chloroethoxy)methane	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-chloroethyl)ether	ND	100	100		µg/Kg-dry	1	10/4/2022
Bis(2-chloroisopropyl)ether	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-ethylhexyl)phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Butyl benzyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Carbazole	ND	330	330		µg/Kg-dry	1	10/4/2022
Chrysene	ND	330	330		µg/Kg-dry	1	10/4/2022
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	10/4/2022
Dibenzofuran	ND	330	330		µg/Kg-dry	1	10/4/2022
Diethyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Dimethyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Di-n-butyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Di-n-octyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Fluoranthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Fluorene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachlorobutadiene	ND	50	50		µg/Kg-dry	1	10/4/2022
Hexachlorocyclopentadiene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/4/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-02

Client Sample ID: B-10-E (1-3')
Collection Date: 9/28/2022 9:40:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Isophorone	ND	330	330		µg/Kg-dry	1	10/4/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
Nitrobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
N-Nitrosodi-n-propylamine	ND	330	330		µg/Kg-dry	1	10/4/2022
N-Nitrosodiphenylamine	ND	330	330		µg/Kg-dry	1	10/4/2022
Pentachlorophenol	ND	43	20		µg/Kg-dry	1	10/4/2022
Phenanthrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Phenol	ND	330	330		µg/Kg-dry	1	10/4/2022
Pyrene	ND	330	330		µg/Kg-dry	1	10/4/2022
<i>Surr: 2,4,6-Tribromophenol</i>	<i>62.2</i>	<i>48-94</i>			<i>%REC</i>	<i>1</i>	<i>10/4/2022</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>61.7</i>	<i>50-103</i>			<i>%REC</i>	<i>1</i>	<i>10/4/2022</i>
<i>Surr: 2-Fluorophenol</i>	<i>60.4</i>	<i>43-105</i>			<i>%REC</i>	<i>1</i>	<i>10/4/2022</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>63.0</i>	<i>55-111</i>			<i>%REC</i>	<i>1</i>	<i>10/4/2022</i>
<i>Surr: Nitrobenzene-d5</i>	<i>58.1</i>	<i>47-100</i>			<i>%REC</i>	<i>1</i>	<i>10/4/2022</i>
<i>Surr: Phenol-d6</i>	<i>65.1</i>	<i>49-110</i>			<i>%REC</i>	<i>1</i>	<i>10/4/2022</i>

VOLATILE ORGANIC COMPOUNDS

SW8260C

Prep Date: 10/3/2022

Analyst: HJ

1,1,1,2-Tetrachloroethane	ND	100	100		µg/Kg-dry	1	10/5/2022
1,1,1-Trichloroethane	ND	53	50		µg/Kg-dry	1	10/5/2022
1,1,2,2-Tetrachloroethane	ND	53	50		µg/Kg-dry	1	10/5/2022
1,1,2-Trichloroethane	ND	53	50		µg/Kg-dry	1	10/5/2022
1,1,2-Trichlorotrifluoroethane	ND	100	100		µg/Kg-dry	1	10/5/2022
1,1-Dichloroethane	ND	53	50		µg/Kg-dry	1	10/5/2022
1,1-Dichloroethene	ND	53	50		µg/Kg-dry	1	10/5/2022
1,2,3-Trichloropropane	ND	100	100		µg/Kg-dry	1	10/5/2022
1,2,4-Trichlorobenzene	ND	250	250		µg/Kg-dry	1	10/5/2022
1,2,4-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	10/5/2022
1,2-Dibromo-3-chloropropane	ND	180	10		µg/Kg-dry	1	10/5/2022
1,2-Dibromoethane	ND	53	20		µg/Kg-dry	1	10/5/2022
1,2-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/5/2022
1,2-Dichloroethane	ND	180	50		µg/Kg-dry	1	10/5/2022
1,2-Dichloropropane	ND	53	50		µg/Kg-dry	1	10/5/2022
1,3,5-Trimethylbenzene	ND	180	100		µg/Kg-dry	1	10/5/2022
1,3-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/5/2022
1,4-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/5/2022
2-Butanone	ND	750	750		µg/Kg-dry	1	10/5/2022
2-Hexanone	ND	2,500	2,500		µg/Kg-dry	1	10/5/2022
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/5/2022
4-Methyl-2-pentanone	ND	2,500	2,500		µg/Kg-dry	1	10/5/2022
Acetone	ND	1,000	1,000		µg/Kg-dry	1	10/5/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-02

Client Sample ID: B-10-E (1-3')
Collection Date: 9/28/2022 9:40:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Acrylonitrile	ND	180	100		µg/Kg-dry	1	10/5/2022
Benzene	ND	53	50		µg/Kg-dry	1	10/5/2022
Bromodichloromethane	ND	100	100		µg/Kg-dry	1	10/5/2022
Bromoform	ND	100	100		µg/Kg-dry	1	10/5/2022
Bromomethane	ND	200	200		µg/Kg-dry	1	10/5/2022
Carbon disulfide	ND	250	250		µg/Kg-dry	1	10/5/2022
Carbon tetrachloride	ND	53	50		µg/Kg-dry	1	10/5/2022
Chlorobenzene	ND	53	50		µg/Kg-dry	1	10/5/2022
Chloroethane	ND	250	250		µg/Kg-dry	1	10/5/2022
Chloroform	ND	53	50		µg/Kg-dry	1	10/5/2022
Chloromethane	ND	250	250		µg/Kg-dry	1	10/5/2022
cis-1,2-Dichloroethene	ND	53	50		µg/Kg-dry	1	10/5/2022
cis-1,3-Dichloropropene	ND	53	50		µg/Kg-dry	1	10/5/2022
Dibromochloromethane	ND	100	100		µg/Kg-dry	1	10/5/2022
Dibromomethane	ND	250	250		µg/Kg-dry	1	10/5/2022
Dichlorodifluoromethane	ND	250	250		µg/Kg-dry	1	10/5/2022
Diethyl ether	ND	200	200		µg/Kg-dry	1	10/5/2022
Ethylbenzene	ND	53	50		µg/Kg-dry	1	10/5/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/5/2022
Isopropylbenzene	ND	250	250		µg/Kg-dry	1	10/5/2022
m,p-Xylene	ND	110	100		µg/Kg-dry	1	10/5/2022
Methyl tert-butyl ether	ND	250	250		µg/Kg-dry	1	10/5/2022
Methylene chloride	ND	450	100		µg/Kg-dry	1	10/5/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/5/2022
n-Propylbenzene	ND	100	100		µg/Kg-dry	1	10/5/2022
o-Xylene	ND	53	50		µg/Kg-dry	1	10/5/2022
Styrene	ND	53	50		µg/Kg-dry	1	10/5/2022
Tetrachloroethene	ND	53	50		µg/Kg-dry	1	10/5/2022
Toluene	ND	100	100		µg/Kg-dry	1	10/5/2022
trans-1,2-Dichloroethene	ND	53	50		µg/Kg-dry	1	10/5/2022
trans-1,3-Dichloropropene	ND	53	50		µg/Kg-dry	1	10/5/2022
Trichloroethene	ND	53	50		µg/Kg-dry	1	10/5/2022
Trichlorofluoromethane	ND	100	100		µg/Kg-dry	1	10/5/2022
Vinyl acetate	ND	5,000	5,000		µg/Kg-dry	1	10/5/2022
Vinyl chloride	ND	53	40		µg/Kg-dry	1	10/5/2022
Xylenes, Total	ND	160	150		µg/Kg-dry	1	10/5/2022
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>100</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/5/2022</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>100</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/5/2022</i>
<i>Surr: Dibromofluoromethane</i>	<i>87.3</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/5/2022</i>
<i>Surr: Toluene-d8</i>	<i>101</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/5/2022</i>

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-02

Client Sample ID: B-10-E (1-3')
Collection Date: 9/28/2022 9:40:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MOISTURE			SW3550C				Analyst: ALG
Moisture	24	0.10	0		% of sample	1	10/3/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development
 Lab ID: 22092946-03

Client Sample ID: B-12-E (2-4')
 Collection Date: 9/28/2022 9:55:00 AM
 Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS			SW8082A		Prep Date: 10/3/2022		Analyst: RM
Aroclor 1016	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1221	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1232	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1242	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1248	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1254	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1260	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1262	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1268	ND	330	330		µg/Kg-dry	1	10/4/2022
Surr: Decachlorobiphenyl	73.9	68-137			%REC	1	10/4/2022
Surr: Tetrachloro-m-xylene	99.1	71-123			%REC	1	10/4/2022
MERCURY BY CVAA			SW7471B		Prep Date: 9/30/2022		Analyst: KRA
Mercury	ND	50	50		µg/Kg-dry	1	10/3/2022
METALS BY ICP-MS			SW6020B		Prep Date: 10/3/2022		Analyst: STP
Arsenic	5,500	2,000	2,000		µg/Kg-dry	1	10/3/2022
Barium	31,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Cadmium	ND	200	200		µg/Kg-dry	1	10/3/2022
Chromium	10,000	2,000	2,000		µg/Kg-dry	1	10/3/2022
Copper	16,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Lead	17,000	10,000	10,000		µg/Kg-dry	1	10/3/2022
Selenium	1,700	440	200		µg/Kg-dry	1	10/4/2022
Silver	ND	440	100		µg/Kg-dry	1	10/3/2022
Zinc	40,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep Date: 10/3/2022		Analyst: EEW
1,2,4-Trichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,2-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,3-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,4-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4,5-Trichlorophenol	ND	300	300		µg/Kg-dry	1	10/4/2022
2,4,6-Trichlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dichlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dimethylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dinitrophenol	ND	830	830		µg/Kg-dry	1	10/4/2022
2,4-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	10/4/2022
2,6-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Chlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-03

Client Sample ID: B-12-E (2-4')
Collection Date: 9/28/2022 9:55:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Methylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
2-Nitrophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
3&4-Methylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
3,3'-Dichlorobenzidine	ND	2,000	2,000		µg/Kg-dry	1	10/4/2022
3-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
4,6-Dinitro-2-methylphenol	ND	830	830		µg/Kg-dry	1	10/4/2022
4-Bromophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Chloro-3-methylphenol	ND	280	280		µg/Kg-dry	1	10/4/2022
4-Chloroaniline	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Chlorophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
4-Nitrophenol	ND	830	830		µg/Kg-dry	1	10/4/2022
Acenaphthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Acenaphthylene	ND	330	330		µg/Kg-dry	1	10/4/2022
Anthracene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(a)anthracene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(a)pyrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(b)fluoranthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-chloroethoxy)methane	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-chloroethyl)ether	ND	100	100		µg/Kg-dry	1	10/4/2022
Bis(2-chloroisopropyl)ether	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-ethylhexyl)phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Butyl benzyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Carbazole	ND	330	330		µg/Kg-dry	1	10/4/2022
Chrysene	ND	330	330		µg/Kg-dry	1	10/4/2022
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	10/4/2022
Dibenzofuran	ND	330	330		µg/Kg-dry	1	10/4/2022
Diethyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Dimethyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Di-n-butyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Di-n-octyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Fluoranthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Fluorene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachlorobutadiene	ND	50	50		µg/Kg-dry	1	10/4/2022
Hexachlorocyclopentadiene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/4/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-03

Client Sample ID: B-12-E (2-4')
Collection Date: 9/28/2022 9:55:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Isophorone	ND	330	330		µg/Kg-dry	1	10/4/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
Nitrobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
N-Nitrosodi-n-propylamine	ND	330	330		µg/Kg-dry	1	10/4/2022
N-Nitrosodiphenylamine	ND	330	330		µg/Kg-dry	1	10/4/2022
Pentachlorophenol	ND	35	20		µg/Kg-dry	1	10/4/2022
Phenanthrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Phenol	ND	330	330		µg/Kg-dry	1	10/4/2022
Pyrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Surr: 2,4,6-Tribromophenol	68.7	48-94			%REC	1	10/4/2022
Surr: 2-Fluorobiphenyl	67.6	50-103			%REC	1	10/4/2022
Surr: 2-Fluorophenol	65.8	43-105			%REC	1	10/4/2022
Surr: 4-Terphenyl-d14	67.6	55-111			%REC	1	10/4/2022
Surr: Nitrobenzene-d5	62.7	47-100			%REC	1	10/4/2022
Surr: Phenol-d6	71.9	49-110			%REC	1	10/4/2022

VOLATILE ORGANIC COMPOUNDS

SW8260C

Prep Date: 10/3/2022

Analyst: **BG**

1,1,1,2-Tetrachloroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1,1-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2,2-Tetrachloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichlorotrifluoroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
1,2,3-Trichloropropane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2,4-Trichlorobenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
1,2,4-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dibromo-3-chloropropane	ND	110	10		µg/Kg-dry	1	10/6/2022
1,2-Dibromoethane	ND	32	20		µg/Kg-dry	1	10/6/2022
1,2-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dichloroethane	ND	110	50		µg/Kg-dry	1	10/6/2022
1,2-Dichloropropane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,3,5-Trimethylbenzene	ND	110	100		µg/Kg-dry	1	10/6/2022
1,3-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,4-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
2-Butanone	ND	750	750		µg/Kg-dry	1	10/6/2022
2-Hexanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
4-Methyl-2-pentanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
Acetone	ND	1,000	1,000		µg/Kg-dry	1	10/6/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-03

Client Sample ID: B-12-E (2-4')
Collection Date: 9/28/2022 9:55:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Acrylonitrile	ND	110	100		µg/Kg-dry	1	10/6/2022
Benzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Bromodichloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromoform	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromomethane	ND	200	200		µg/Kg-dry	1	10/6/2022
Carbon disulfide	ND	250	250		µg/Kg-dry	1	10/6/2022
Carbon tetrachloride	ND	50	50		µg/Kg-dry	1	10/6/2022
Chlorobenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloroethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Chloroform	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
cis-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
cis-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Dibromochloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Dibromomethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Dichlorodifluoromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Diethyl ether	ND	200	200		µg/Kg-dry	1	10/6/2022
Ethylbenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/6/2022
Isopropylbenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
m,p-Xylene	ND	100	100		µg/Kg-dry	1	10/6/2022
Methyl tert-butyl ether	ND	250	250		µg/Kg-dry	1	10/6/2022
Methylene chloride	ND	270	100		µg/Kg-dry	1	10/6/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
n-Propylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
o-Xylene	ND	50	50		µg/Kg-dry	1	10/6/2022
Styrene	ND	50	50		µg/Kg-dry	1	10/6/2022
Tetrachloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Toluene	ND	100	100		µg/Kg-dry	1	10/6/2022
trans-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
trans-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichlorofluoromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Vinyl acetate	ND	5,000	5,000		µg/Kg-dry	1	10/6/2022
Vinyl chloride	ND	40	40		µg/Kg-dry	1	10/6/2022
Xylenes, Total	ND	150	150		µg/Kg-dry	1	10/6/2022
Surr: 1,2-Dichloroethane-d4	106	80-120			%REC	1	10/6/2022
Surr: 4-Bromofluorobenzene	98.9	80-120			%REC	1	10/6/2022
Surr: Dibromofluoromethane	102	80-120			%REC	1	10/6/2022
Surr: Toluene-d8	102	80-120			%REC	1	10/6/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-03

Client Sample ID: B-12-E (2-4')
Collection Date: 9/28/2022 9:55:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MOISTURE			SW3550C				Analyst: ALG
Moisture	10	0.10	0		% of sample	1	10/3/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development
 Lab ID: 22092946-04

Client Sample ID: B-18-E (2-4')
 Collection Date: 9/28/2022 10:15:00 AM
 Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS			SW8082A		Prep Date: 10/3/2022		Analyst: RM
Aroclor 1016	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1221	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1232	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1242	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1248	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1254	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1260	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1262	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1268	ND	330	330		µg/Kg-dry	1	10/4/2022
Surr: Decachlorobiphenyl	86.4	68-137			%REC	1	10/4/2022
Surr: Tetrachloro-m-xylene	99.3	71-123			%REC	1	10/4/2022
MERCURY BY CVAA			SW7471B		Prep Date: 9/30/2022		Analyst: KRA
Mercury	230	50	50		µg/Kg-dry	1	10/3/2022
METALS BY ICP-MS			SW6020B		Prep Date: 10/3/2022		Analyst: STP
Arsenic	12,000	2,000	2,000		µg/Kg-dry	1	10/3/2022
Barium	2,200,000	43,000	1,000		µg/Kg-dry	100	10/4/2022
Cadmium	5,500	200	200		µg/Kg-dry	1	10/3/2022
Chromium	28,000	2,000	2,000		µg/Kg-dry	1	10/3/2022
Copper	110,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Lead	31,000,000	430,000	10,000		µg/Kg-dry	1000	10/4/2022
Selenium	ND	4,300	200		µg/Kg-dry	10	10/4/2022
Silver	3,500	430	100		µg/Kg-dry	1	10/3/2022
Zinc	2,700,000	86,000	1,000		µg/Kg-dry	100	10/4/2022
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep Date: 10/3/2022		Analyst: EEW
1,2,4-Trichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,2-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,3-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,4-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4,5-Trichlorophenol	ND	300	300		µg/Kg-dry	1	10/4/2022
2,4,6-Trichlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dichlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dimethylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dinitrophenol	ND	2,000	830		µg/Kg-dry	1	10/4/2022
2,4-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	10/4/2022
2,6-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Chlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-04

Client Sample ID: B-18-E (2-4')
Collection Date: 9/28/2022 10:15:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Methylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
2-Nitrophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
3&4-Methylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
3,3'-Dichlorobenzidine	ND	2,000	2,000		µg/Kg-dry	1	10/4/2022
3-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
4,6-Dinitro-2-methylphenol	ND	830	830		µg/Kg-dry	1	10/4/2022
4-Bromophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Chloro-3-methylphenol	ND	280	280		µg/Kg-dry	1	10/4/2022
4-Chloroaniline	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Chlorophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
4-Nitrophenol	ND	830	830		µg/Kg-dry	1	10/4/2022
Acenaphthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Acenaphthylene	ND	330	330		µg/Kg-dry	1	10/4/2022
Anthracene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(a)anthracene	390	330	330		µg/Kg-dry	1	10/4/2022
Benzo(a)pyrene	500	330	330		µg/Kg-dry	1	10/4/2022
Benzo(b)fluoranthene	540	330	330		µg/Kg-dry	1	10/4/2022
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-chloroethoxy)methane	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-chloroethyl)ether	ND	100	100		µg/Kg-dry	1	10/4/2022
Bis(2-chloroisopropyl)ether	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-ethylhexyl)phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Butyl benzyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Carbazole	ND	330	330		µg/Kg-dry	1	10/4/2022
Chrysene	380	330	330		µg/Kg-dry	1	10/4/2022
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	10/4/2022
Dibenzofuran	ND	330	330		µg/Kg-dry	1	10/4/2022
Diethyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Dimethyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Di-n-butyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Di-n-octyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Fluoranthene	630	330	330		µg/Kg-dry	1	10/4/2022
Fluorene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachlorobutadiene	ND	100	50		µg/Kg-dry	1	10/4/2022
Hexachlorocyclopentadiene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/4/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-04

Client Sample ID: B-18-E (2-4')
Collection Date: 9/28/2022 10:15:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	390	330	330		µg/Kg-dry	1	10/4/2022
Isophorone	ND	510	330		µg/Kg-dry	1	10/4/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
Nitrobenzene	ND	510	330		µg/Kg-dry	1	10/4/2022
N-Nitrosodi-n-propylamine	ND	330	330		µg/Kg-dry	1	10/4/2022
N-Nitrosodiphenylamine	ND	330	330		µg/Kg-dry	1	10/4/2022
Pentachlorophenol	ND	100	20		µg/Kg-dry	1	10/4/2022
Phenanthrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Phenol	ND	330	330		µg/Kg-dry	1	10/4/2022
Pyrene	630	330	330		µg/Kg-dry	1	10/4/2022
Surr: 2,4,6-Tribromophenol	64.3	48-94			%REC	1	10/4/2022
Surr: 2-Fluorobiphenyl	65.6	50-103			%REC	1	10/4/2022
Surr: 2-Fluorophenol	62.4	43-105			%REC	1	10/4/2022
Surr: 4-Terphenyl-d14	68.0	55-111			%REC	1	10/4/2022
Surr: Nitrobenzene-d5	61.6	47-100			%REC	1	10/4/2022
Surr: Phenol-d6	67.8	49-110			%REC	1	10/4/2022

VOLATILE ORGANIC COMPOUNDS

SW8260C

Prep Date: 10/3/2022

Analyst: **BG**

1,1,1,2-Tetrachloroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1,1-Trichloroethane	ND	61	50		µg/Kg-dry	1	10/6/2022
1,1,2,2-Tetrachloroethane	ND	61	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichloroethane	ND	61	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichlorotrifluoroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethane	ND	61	50		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethene	ND	61	50		µg/Kg-dry	1	10/6/2022
1,2,3-Trichloropropane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2,4-Trichlorobenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
1,2,4-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dibromo-3-chloropropane	ND	200	10		µg/Kg-dry	1	10/6/2022
1,2-Dibromoethane	ND	61	20		µg/Kg-dry	1	10/6/2022
1,2-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dichloroethane	ND	200	50		µg/Kg-dry	1	10/6/2022
1,2-Dichloropropane	ND	61	50		µg/Kg-dry	1	10/6/2022
1,3,5-Trimethylbenzene	ND	200	100		µg/Kg-dry	1	10/6/2022
1,3-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,4-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
2-Butanone	ND	750	750		µg/Kg-dry	1	10/6/2022
2-Hexanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
4-Methyl-2-pentanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
Acetone	ND	1,000	1,000		µg/Kg-dry	1	10/6/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-04

Client Sample ID: B-18-E (2-4')
Collection Date: 9/28/2022 10:15:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Acrylonitrile	ND	200	100		µg/Kg-dry	1	10/6/2022
Benzene	ND	61	50		µg/Kg-dry	1	10/6/2022
Bromodichloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromoform	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromomethane	ND	200	200		µg/Kg-dry	1	10/6/2022
Carbon disulfide	ND	250	250		µg/Kg-dry	1	10/6/2022
Carbon tetrachloride	ND	61	50		µg/Kg-dry	1	10/6/2022
Chlorobenzene	ND	61	50		µg/Kg-dry	1	10/6/2022
Chloroethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Chloroform	ND	61	50		µg/Kg-dry	1	10/6/2022
Chloromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
cis-1,2-Dichloroethene	ND	61	50		µg/Kg-dry	1	10/6/2022
cis-1,3-Dichloropropene	ND	61	50		µg/Kg-dry	1	10/6/2022
Dibromochloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Dibromomethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Dichlorodifluoromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Diethyl ether	ND	200	200		µg/Kg-dry	1	10/6/2022
Ethylbenzene	ND	61	50		µg/Kg-dry	1	10/6/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/6/2022
Isopropylbenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
m,p-Xylene	ND	120	100		µg/Kg-dry	1	10/6/2022
Methyl tert-butyl ether	ND	250	250		µg/Kg-dry	1	10/6/2022
Methylene chloride	ND	510	100		µg/Kg-dry	1	10/6/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
n-Propylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
o-Xylene	69	61	50		µg/Kg-dry	1	10/6/2022
Styrene	ND	61	50		µg/Kg-dry	1	10/6/2022
Tetrachloroethene	ND	61	50		µg/Kg-dry	1	10/6/2022
Toluene	ND	100	100		µg/Kg-dry	1	10/6/2022
trans-1,2-Dichloroethene	ND	61	50		µg/Kg-dry	1	10/6/2022
trans-1,3-Dichloropropene	ND	61	50		µg/Kg-dry	1	10/6/2022
Trichloroethene	ND	61	50		µg/Kg-dry	1	10/6/2022
Trichlorofluoromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Vinyl acetate	ND	5,000	5,000		µg/Kg-dry	1	10/6/2022
Vinyl chloride	ND	61	40		µg/Kg-dry	1	10/6/2022
Xylenes, Total	ND	180	150		µg/Kg-dry	1	10/6/2022
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>102</i>	<i>80-120</i>			<i>%REC</i>	1	10/6/2022
<i>Surr: 4-Bromofluorobenzene</i>	<i>98.9</i>	<i>80-120</i>			<i>%REC</i>	1	10/6/2022
<i>Surr: Dibromofluoromethane</i>	<i>95.2</i>	<i>80-120</i>			<i>%REC</i>	1	10/6/2022
<i>Surr: Toluene-d8</i>	<i>101</i>	<i>80-120</i>			<i>%REC</i>	1	10/6/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-04

Client Sample ID: B-18-E (2-4')
Collection Date: 9/28/2022 10:15:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MOISTURE			SW3550C				Analyst: ALG
Moisture	26	0.10	0		% of sample	1	10/3/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development
 Lab ID: 22092946-05

Client Sample ID: DB-1 (1-3')
 Collection Date: 9/28/2022 10:30:00 AM
 Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS			SW8082A		Prep Date: 10/3/2022		Analyst: RM
Aroclor 1016	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1221	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1232	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1242	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1248	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1254	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1260	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1262	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1268	ND	330	330		µg/Kg-dry	1	10/4/2022
Surr: Decachlorobiphenyl	73.1	68-137			%REC	1	10/4/2022
Surr: Tetrachloro-m-xylene	90.1	71-123			%REC	1	10/4/2022
MERCURY BY CVAA			SW7471B		Prep Date: 9/30/2022		Analyst: KRA
Mercury	ND	50	50		µg/Kg-dry	1	10/3/2022
METALS BY ICP-MS			SW6020B		Prep Date: 10/3/2022		Analyst: STP
Arsenic	5,500	2,000	2,000		µg/Kg-dry	1	10/3/2022
Barium	40,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Cadmium	ND	200	200		µg/Kg-dry	1	10/3/2022
Chromium	12,000	2,000	2,000		µg/Kg-dry	1	10/3/2022
Copper	17,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Lead	140,000	10,000	10,000		µg/Kg-dry	1	10/3/2022
Selenium	500	480	200		µg/Kg-dry	1	10/4/2022
Silver	ND	480	100		µg/Kg-dry	1	10/3/2022
Zinc	50,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep Date: 10/3/2022		Analyst: EEW
1,2,4-Trichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,2-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,3-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,4-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4,5-Trichlorophenol	ND	300	300		µg/Kg-dry	1	10/4/2022
2,4,6-Trichlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dichlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dimethylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dinitrophenol	ND	830	830		µg/Kg-dry	1	10/4/2022
2,4-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	10/4/2022
2,6-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Chlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-05

Client Sample ID: DB-1 (1-3')
Collection Date: 9/28/2022 10:30:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Methylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
2-Nitrophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
3&4-Methylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
3,3'-Dichlorobenzidine	ND	2,000	2,000		µg/Kg-dry	1	10/4/2022
3-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
4,6-Dinitro-2-methylphenol	ND	830	830		µg/Kg-dry	1	10/4/2022
4-Bromophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Chloro-3-methylphenol	ND	280	280		µg/Kg-dry	1	10/4/2022
4-Chloroaniline	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Chlorophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
4-Nitrophenol	ND	830	830		µg/Kg-dry	1	10/4/2022
Acenaphthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Acenaphthylene	ND	330	330		µg/Kg-dry	1	10/4/2022
Anthracene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(a)anthracene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(a)pyrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(b)fluoranthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-chloroethoxy)methane	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-chloroethyl)ether	ND	100	100		µg/Kg-dry	1	10/4/2022
Bis(2-chloroisopropyl)ether	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-ethylhexyl)phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Butyl benzyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Carbazole	ND	330	330		µg/Kg-dry	1	10/4/2022
Chrysene	ND	330	330		µg/Kg-dry	1	10/4/2022
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	10/4/2022
Dibenzofuran	ND	330	330		µg/Kg-dry	1	10/4/2022
Diethyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Dimethyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Di-n-butyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Di-n-octyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Fluoranthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Fluorene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachlorobutadiene	ND	50	50		µg/Kg-dry	1	10/4/2022
Hexachlorocyclopentadiene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/4/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-05

Client Sample ID: DB-1 (1-3')
Collection Date: 9/28/2022 10:30:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Isophorone	ND	330	330		µg/Kg-dry	1	10/4/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
Nitrobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
N-Nitrosodi-n-propylamine	ND	330	330		µg/Kg-dry	1	10/4/2022
N-Nitrosodiphenylamine	ND	330	330		µg/Kg-dry	1	10/4/2022
Pentachlorophenol	ND	38	20		µg/Kg-dry	1	10/4/2022
Phenanthrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Phenol	ND	330	330		µg/Kg-dry	1	10/4/2022
Pyrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Surr: 2,4,6-Tribromophenol	60.0	48-94			%REC	1	10/4/2022
Surr: 2-Fluorobiphenyl	61.9	50-103			%REC	1	10/4/2022
Surr: 2-Fluorophenol	53.9	43-105			%REC	1	10/4/2022
Surr: 4-Terphenyl-d14	67.2	55-111			%REC	1	10/4/2022
Surr: Nitrobenzene-d5	57.4	47-100			%REC	1	10/4/2022
Surr: Phenol-d6	59.5	49-110			%REC	1	10/4/2022

VOLATILE ORGANIC COMPOUNDS

SW8260C

Prep Date: 10/3/2022

Analyst: BG

1,1,1,2-Tetrachloroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1,1-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2,2-Tetrachloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichlorotrifluoroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
1,2,3-Trichloropropane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2,4-Trichlorobenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
1,2,4-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dibromo-3-chloropropane	ND	130	10		µg/Kg-dry	1	10/6/2022
1,2-Dibromoethane	ND	39	20		µg/Kg-dry	1	10/6/2022
1,2-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dichloroethane	ND	130	50		µg/Kg-dry	1	10/6/2022
1,2-Dichloropropane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,3,5-Trimethylbenzene	ND	130	100		µg/Kg-dry	1	10/6/2022
1,3-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,4-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
2-Butanone	ND	750	750		µg/Kg-dry	1	10/6/2022
2-Hexanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
4-Methyl-2-pentanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
Acetone	ND	1,000	1,000		µg/Kg-dry	1	10/6/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-05

Client Sample ID: DB-1 (1-3')
Collection Date: 9/28/2022 10:30:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Acrylonitrile	ND	130	100		µg/Kg-dry	1	10/6/2022
Benzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Bromodichloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromoform	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromomethane	ND	200	200		µg/Kg-dry	1	10/6/2022
Carbon disulfide	ND	250	250		µg/Kg-dry	1	10/6/2022
Carbon tetrachloride	ND	50	50		µg/Kg-dry	1	10/6/2022
Chlorobenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloroethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Chloroform	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
cis-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
cis-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Dibromochloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Dibromomethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Dichlorodifluoromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Diethyl ether	ND	200	200		µg/Kg-dry	1	10/6/2022
Ethylbenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/6/2022
Isopropylbenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
m,p-Xylene	ND	100	100		µg/Kg-dry	1	10/6/2022
Methyl tert-butyl ether	ND	250	250		µg/Kg-dry	1	10/6/2022
Methylene chloride	ND	330	100		µg/Kg-dry	1	10/6/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
n-Propylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
o-Xylene	ND	50	50		µg/Kg-dry	1	10/6/2022
Styrene	ND	50	50		µg/Kg-dry	1	10/6/2022
Tetrachloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Toluene	ND	100	100		µg/Kg-dry	1	10/6/2022
trans-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
trans-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichlorofluoromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Vinyl acetate	ND	5,000	5,000		µg/Kg-dry	1	10/6/2022
Vinyl chloride	ND	40	40		µg/Kg-dry	1	10/6/2022
Xylenes, Total	ND	150	150		µg/Kg-dry	1	10/6/2022
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>108</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>95.6</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>
<i>Surr: Dibromofluoromethane</i>	<i>101</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>
<i>Surr: Toluene-d8</i>	<i>101</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-05

Client Sample ID: DB-1 (1-3')
Collection Date: 9/28/2022 10:30:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MOISTURE			SW3550C				Analyst: ALG
Moisture	14	0.10	0		% of sample	1	10/3/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-06

Client Sample ID: DB-2 (2-4')
Collection Date: 9/28/2022 10:40:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS			SW8082A		Prep Date: 10/6/2022		Analyst: RM
Aroclor 1016	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1221	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1232	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1242	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1248	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1254	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1260	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1262	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1268	ND	330	330		µg/Kg-dry	1	10/6/2022
Surr: Decachlorobiphenyl	87.5	68-137			%REC	1	10/6/2022
Surr: Tetrachloro-m-xylene	86.0	71-123			%REC	1	10/6/2022
MERCURY BY CVAA			SW7471B		Prep Date: 9/30/2022		Analyst: KRA
Mercury	ND	50	50		µg/Kg-dry	1	10/3/2022
METALS BY ICP-MS			SW6020B		Prep Date: 10/3/2022		Analyst: STP
Arsenic	6,200	2,000	2,000		µg/Kg-dry	1	10/3/2022
Barium	60,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Cadmium	210	200	200		µg/Kg-dry	1	10/3/2022
Chromium	14,000	2,000	2,000		µg/Kg-dry	1	10/3/2022
Copper	18,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Lead	68,000	10,000	10,000		µg/Kg-dry	1	10/3/2022
Selenium	680	370	200		µg/Kg-dry	1	10/4/2022
Silver	ND	370	100		µg/Kg-dry	1	10/3/2022
Zinc	52,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep Date: 10/3/2022		Analyst: EEW
1,2,4-Trichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,2-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,3-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,4-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4,5-Trichlorophenol	ND	300	300		µg/Kg-dry	1	10/4/2022
2,4,6-Trichlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dichlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dimethylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dinitrophenol	ND	830	830		µg/Kg-dry	1	10/4/2022
2,4-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	10/4/2022
2,6-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Chlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-06

Client Sample ID: DB-2 (2-4')
Collection Date: 9/28/2022 10:40:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Methylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
2-Nitrophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
3&4-Methylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
3,3'-Dichlorobenzidine	ND	2,000	2,000		µg/Kg-dry	1	10/4/2022
3-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
4,6-Dinitro-2-methylphenol	ND	830	830		µg/Kg-dry	1	10/4/2022
4-Bromophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Chloro-3-methylphenol	ND	280	280		µg/Kg-dry	1	10/4/2022
4-Chloroaniline	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Chlorophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
4-Nitrophenol	ND	830	830		µg/Kg-dry	1	10/4/2022
Acenaphthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Acenaphthylene	ND	330	330		µg/Kg-dry	1	10/4/2022
Anthracene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(a)anthracene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(a)pyrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(b)fluoranthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-chloroethoxy)methane	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-chloroethyl)ether	ND	100	100		µg/Kg-dry	1	10/4/2022
Bis(2-chloroisopropyl)ether	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-ethylhexyl)phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Butyl benzyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Carbazole	ND	330	330		µg/Kg-dry	1	10/4/2022
Chrysene	ND	330	330		µg/Kg-dry	1	10/4/2022
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	10/4/2022
Dibenzofuran	ND	330	330		µg/Kg-dry	1	10/4/2022
Diethyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Dimethyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Di-n-butyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Di-n-octyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Fluoranthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Fluorene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachlorobutadiene	ND	50	50		µg/Kg-dry	1	10/4/2022
Hexachlorocyclopentadiene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/4/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development
 Lab ID: 22092946-06

Client Sample ID: DB-2 (2-4')
 Collection Date: 9/28/2022 10:40:00 AM
 Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Isophorone	ND	330	330		µg/Kg-dry	1	10/4/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
Nitrobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
N-Nitrosodi-n-propylamine	ND	330	330		µg/Kg-dry	1	10/4/2022
N-Nitrosodiphenylamine	ND	330	330		µg/Kg-dry	1	10/4/2022
Pentachlorophenol	ND	36	20		µg/Kg-dry	1	10/4/2022
Phenanthrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Phenol	ND	330	330		µg/Kg-dry	1	10/4/2022
Pyrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Surr: 2,4,6-Tribromophenol	58.0	48-94			%REC	1	10/4/2022
Surr: 2-Fluorobiphenyl	61.7	50-103			%REC	1	10/4/2022
Surr: 2-Fluorophenol	49.5	43-105			%REC	1	10/4/2022
Surr: 4-Terphenyl-d14	64.0	55-111			%REC	1	10/4/2022
Surr: Nitrobenzene-d5	57.4	47-100			%REC	1	10/4/2022
Surr: Phenol-d6	56.0	49-110			%REC	1	10/4/2022

VOLATILE ORGANIC COMPOUNDS

SW8260C

Prep Date: 10/3/2022

Analyst: BG

1,1,1,2-Tetrachloroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1,1-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2,2-Tetrachloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichlorotrifluoroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
1,2,3-Trichloropropane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2,4-Trichlorobenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
1,2,4-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dibromo-3-chloropropane	ND	140	10		µg/Kg-dry	1	10/6/2022
1,2-Dibromoethane	ND	41	20		µg/Kg-dry	1	10/6/2022
1,2-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dichloroethane	ND	140	50		µg/Kg-dry	1	10/6/2022
1,2-Dichloropropane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,3,5-Trimethylbenzene	ND	140	100		µg/Kg-dry	1	10/6/2022
1,3-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,4-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
2-Butanone	ND	750	750		µg/Kg-dry	1	10/6/2022
2-Hexanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
4-Methyl-2-pentanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
Acetone	ND	1,000	1,000		µg/Kg-dry	1	10/6/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development
 Lab ID: 22092946-06

Client Sample ID: DB-2 (2-4')
 Collection Date: 9/28/2022 10:40:00 AM
 Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Acrylonitrile	ND	140	100		µg/Kg-dry	1	10/6/2022
Benzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Bromodichloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromoform	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromomethane	ND	200	200		µg/Kg-dry	1	10/6/2022
Carbon disulfide	ND	250	250		µg/Kg-dry	1	10/6/2022
Carbon tetrachloride	ND	50	50		µg/Kg-dry	1	10/6/2022
Chlorobenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloroethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Chloroform	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
cis-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
cis-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Dibromochloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Dibromomethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Dichlorodifluoromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Diethyl ether	ND	200	200		µg/Kg-dry	1	10/6/2022
Ethylbenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/6/2022
Isopropylbenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
m,p-Xylene	ND	100	100		µg/Kg-dry	1	10/6/2022
Methyl tert-butyl ether	ND	250	250		µg/Kg-dry	1	10/6/2022
Methylene chloride	ND	340	100		µg/Kg-dry	1	10/6/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
n-Propylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
o-Xylene	59	50	50		µg/Kg-dry	1	10/6/2022
Styrene	ND	50	50		µg/Kg-dry	1	10/6/2022
Tetrachloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Toluene	ND	100	100		µg/Kg-dry	1	10/6/2022
trans-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
trans-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichlorofluoromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Vinyl acetate	ND	5,000	5,000		µg/Kg-dry	1	10/6/2022
Vinyl chloride	ND	41	40		µg/Kg-dry	1	10/6/2022
Xylenes, Total	ND	150	150		µg/Kg-dry	1	10/6/2022
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>106</i>	<i>80-120</i>			<i>%REC</i>	1	10/6/2022
<i>Surr: 4-Bromofluorobenzene</i>	<i>98.7</i>	<i>80-120</i>			<i>%REC</i>	1	10/6/2022
<i>Surr: Dibromofluoromethane</i>	<i>100</i>	<i>80-120</i>			<i>%REC</i>	1	10/6/2022
<i>Surr: Toluene-d8</i>	<i>101</i>	<i>80-120</i>			<i>%REC</i>	1	10/6/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-06

Client Sample ID: DB-2 (2-4')
Collection Date: 9/28/2022 10:40:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MOISTURE			SW3550C				Analyst: ALG
Moisture	10	0.10	0		% of sample	1	10/3/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-07

Client Sample ID: DB-3 (1-3')
Collection Date: 9/28/2022 10:50:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS			SW8082A		Prep Date: 10/6/2022		Analyst: RM
Aroclor 1016	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1221	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1232	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1242	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1248	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1254	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1260	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1262	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1268	ND	330	330		µg/Kg-dry	1	10/6/2022
Surr: Decachlorobiphenyl	50.5	68-137		S	%REC	1	10/6/2022
Surr: Tetrachloro-m-xylene	44.8	71-123		S	%REC	1	10/6/2022
MERCURY BY CVAA			SW7471B		Prep Date: 9/30/2022		Analyst: KRA
Mercury	ND	50	50		µg/Kg-dry	1	10/3/2022
METALS BY ICP-MS			SW6020B		Prep Date: 10/3/2022		Analyst: STP
Arsenic	4,700	2,000	2,000		µg/Kg-dry	1	10/3/2022
Barium	37,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Cadmium	ND	200	200		µg/Kg-dry	1	10/3/2022
Chromium	8,300	2,000	2,000		µg/Kg-dry	1	10/3/2022
Copper	9,800	1,000	1,000		µg/Kg-dry	1	10/3/2022
Lead	17,000	10,000	10,000		µg/Kg-dry	1	10/3/2022
Selenium	610	410	200		µg/Kg-dry	1	10/4/2022
Silver	ND	410	100		µg/Kg-dry	1	10/3/2022
Zinc	32,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep Date: 10/3/2022		Analyst: EEW
1,2,4-Trichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,2-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,3-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,4-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4,5-Trichlorophenol	ND	300	300		µg/Kg-dry	1	10/4/2022
2,4,6-Trichlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dichlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dimethylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dinitrophenol	ND	830	830		µg/Kg-dry	1	10/4/2022
2,4-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	10/4/2022
2,6-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Chlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development
 Lab ID: 22092946-07

Client Sample ID: DB-3 (1-3')
 Collection Date: 9/28/2022 10:50:00 AM
 Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Methylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
2-Nitrophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
3&4-Methylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
3,3'-Dichlorobenzidine	ND	2,000	2,000		µg/Kg-dry	1	10/4/2022
3-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
4,6-Dinitro-2-methylphenol	ND	830	830		µg/Kg-dry	1	10/4/2022
4-Bromophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Chloro-3-methylphenol	ND	280	280		µg/Kg-dry	1	10/4/2022
4-Chloroaniline	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Chlorophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
4-Nitrophenol	ND	830	830		µg/Kg-dry	1	10/4/2022
Acenaphthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Acenaphthylene	ND	330	330		µg/Kg-dry	1	10/4/2022
Anthracene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(a)anthracene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(a)pyrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(b)fluoranthene	350	330	330		µg/Kg-dry	1	10/4/2022
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-chloroethoxy)methane	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-chloroethyl)ether	ND	100	100		µg/Kg-dry	1	10/4/2022
Bis(2-chloroisopropyl)ether	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-ethylhexyl)phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Butyl benzyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Carbazole	ND	330	330		µg/Kg-dry	1	10/4/2022
Chrysene	ND	330	330		µg/Kg-dry	1	10/4/2022
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	10/4/2022
Dibenzofuran	ND	330	330		µg/Kg-dry	1	10/4/2022
Diethyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Dimethyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Di-n-butyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Di-n-octyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Fluoranthene	450	330	330		µg/Kg-dry	1	10/4/2022
Fluorene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachlorobutadiene	ND	50	50		µg/Kg-dry	1	10/4/2022
Hexachlorocyclopentadiene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/4/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-07

Client Sample ID: DB-3 (1-3')
Collection Date: 9/28/2022 10:50:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Isophorone	ND	330	330		µg/Kg-dry	1	10/4/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
Nitrobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
N-Nitrosodi-n-propylamine	ND	330	330		µg/Kg-dry	1	10/4/2022
N-Nitrosodiphenylamine	ND	330	330		µg/Kg-dry	1	10/4/2022
Pentachlorophenol	ND	36	20		µg/Kg-dry	1	10/4/2022
Phenanthrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Phenol	ND	330	330		µg/Kg-dry	1	10/4/2022
Pyrene	390	330	330		µg/Kg-dry	1	10/4/2022
Surr: 2,4,6-Tribromophenol	57.2	48-94			%REC	1	10/4/2022
Surr: 2-Fluorobiphenyl	58.1	50-103			%REC	1	10/4/2022
Surr: 2-Fluorophenol	48.4	43-105			%REC	1	10/4/2022
Surr: 4-Terphenyl-d14	61.9	55-111			%REC	1	10/4/2022
Surr: Nitrobenzene-d5	53.8	47-100			%REC	1	10/4/2022
Surr: Phenol-d6	52.2	49-110			%REC	1	10/4/2022

VOLATILE ORGANIC COMPOUNDS

SW8260C

Prep Date: 10/3/2022

Analyst: **BG**

1,1,1,2-Tetrachloroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1,1-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2,2-Tetrachloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichlorotrifluoroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
1,2,3-Trichloropropane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2,4-Trichlorobenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
1,2,4-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dibromo-3-chloropropane	ND	110	10		µg/Kg-dry	1	10/6/2022
1,2-Dibromoethane	ND	33	20		µg/Kg-dry	1	10/6/2022
1,2-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dichloroethane	ND	110	50		µg/Kg-dry	1	10/6/2022
1,2-Dichloropropane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,3,5-Trimethylbenzene	ND	110	100		µg/Kg-dry	1	10/6/2022
1,3-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,4-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
2-Butanone	ND	750	750		µg/Kg-dry	1	10/6/2022
2-Hexanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
4-Methyl-2-pentanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
Acetone	ND	1,000	1,000		µg/Kg-dry	1	10/6/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-07

Client Sample ID: DB-3 (1-3')
Collection Date: 9/28/2022 10:50:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Acrylonitrile	ND	110	100		µg/Kg-dry	1	10/6/2022
Benzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Bromodichloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromoform	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromomethane	ND	200	200		µg/Kg-dry	1	10/6/2022
Carbon disulfide	ND	250	250		µg/Kg-dry	1	10/6/2022
Carbon tetrachloride	ND	50	50		µg/Kg-dry	1	10/6/2022
Chlorobenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloroethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Chloroform	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
cis-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
cis-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Dibromochloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Dibromomethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Dichlorodifluoromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Diethyl ether	ND	200	200		µg/Kg-dry	1	10/6/2022
Ethylbenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/6/2022
Isopropylbenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
m,p-Xylene	ND	100	100		µg/Kg-dry	1	10/6/2022
Methyl tert-butyl ether	ND	250	250		µg/Kg-dry	1	10/6/2022
Methylene chloride	ND	280	100		µg/Kg-dry	1	10/6/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
n-Propylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
o-Xylene	ND	50	50		µg/Kg-dry	1	10/6/2022
Styrene	ND	50	50		µg/Kg-dry	1	10/6/2022
Tetrachloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Toluene	ND	100	100		µg/Kg-dry	1	10/6/2022
trans-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
trans-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichlorofluoromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Vinyl acetate	ND	5,000	5,000		µg/Kg-dry	1	10/6/2022
Vinyl chloride	ND	40	40		µg/Kg-dry	1	10/6/2022
Xylenes, Total	ND	150	150		µg/Kg-dry	1	10/6/2022
Surr: 1,2-Dichloroethane-d4	103	80-120			%REC	1	10/6/2022
Surr: 4-Bromofluorobenzene	109	80-120			%REC	1	10/6/2022
Surr: Dibromofluoromethane	97.0	80-120			%REC	1	10/6/2022
Surr: Toluene-d8	113	80-120			%REC	1	10/6/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-07

Client Sample ID: DB-3 (1-3')
Collection Date: 9/28/2022 10:50:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MOISTURE			SW3550C				Analyst: ALG
Moisture	9.1	0.10	0		% of sample	1	10/3/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-08

Client Sample ID: DB-4 (1-3')
Collection Date: 9/28/2022 11:00:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS			SW8082A		Prep Date: 10/3/2022		Analyst: RM
Aroclor 1016	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1221	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1232	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1242	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1248	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1254	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1260	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1262	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1268	ND	330	330		µg/Kg-dry	1	10/4/2022
Surr: Decachlorobiphenyl	69.9	68-137			%REC	1	10/4/2022
Surr: Tetrachloro-m-xylene	91.5	71-123			%REC	1	10/4/2022
MERCURY BY CVAA			SW7471B		Prep Date: 9/30/2022		Analyst: KRA
Mercury	67	50	50		µg/Kg-dry	1	10/3/2022
METALS BY ICP-MS			SW6020B		Prep Date: 10/3/2022		Analyst: STP
Arsenic	7,700	2,000	2,000		µg/Kg-dry	1	10/3/2022
Barium	86,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Cadmium	ND	200	200		µg/Kg-dry	1	10/3/2022
Chromium	15,000	2,000	2,000		µg/Kg-dry	1	10/3/2022
Copper	17,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Lead	19,000	10,000	10,000		µg/Kg-dry	1	10/3/2022
Selenium	ND	450	200		µg/Kg-dry	1	10/4/2022
Silver	ND	450	100		µg/Kg-dry	1	10/3/2022
Zinc	53,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep Date: 10/3/2022		Analyst: EEW
1,2,4-Trichlorobenzene	ND	330	330		µg/Kg-dry	1	10/3/2022
1,2-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/3/2022
1,3-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/3/2022
1,4-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/3/2022
2,4,5-Trichlorophenol	ND	300	300		µg/Kg-dry	1	10/3/2022
2,4,6-Trichlorophenol	ND	330	330		µg/Kg-dry	1	10/3/2022
2,4-Dichlorophenol	ND	330	330		µg/Kg-dry	1	10/3/2022
2,4-Dimethylphenol	ND	330	330		µg/Kg-dry	1	10/3/2022
2,4-Dinitrophenol	ND	830	830		µg/Kg-dry	1	10/3/2022
2,4-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	10/3/2022
2,6-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	10/3/2022
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	1	10/3/2022
2-Chlorophenol	ND	330	330		µg/Kg-dry	1	10/3/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-08

Client Sample ID: DB-4 (1-3')
Collection Date: 9/28/2022 11:00:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/3/2022
2-Methylphenol	ND	330	330		µg/Kg-dry	1	10/3/2022
2-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/3/2022
2-Nitrophenol	ND	330	330		µg/Kg-dry	1	10/3/2022
3&4-Methylphenol	ND	330	330		µg/Kg-dry	1	10/3/2022
3,3'-Dichlorobenzidine	ND	2,000	2,000		µg/Kg-dry	1	10/3/2022
3-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/3/2022
4,6-Dinitro-2-methylphenol	ND	830	830		µg/Kg-dry	1	10/3/2022
4-Bromophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	10/3/2022
4-Chloro-3-methylphenol	ND	280	280		µg/Kg-dry	1	10/3/2022
4-Chloroaniline	ND	330	330		µg/Kg-dry	1	10/3/2022
4-Chlorophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	10/3/2022
4-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/3/2022
4-Nitrophenol	ND	830	830		µg/Kg-dry	1	10/3/2022
Acenaphthene	ND	330	330		µg/Kg-dry	1	10/3/2022
Acenaphthylene	ND	330	330		µg/Kg-dry	1	10/3/2022
Anthracene	ND	330	330		µg/Kg-dry	1	10/3/2022
Benzo(a)anthracene	ND	330	330		µg/Kg-dry	1	10/3/2022
Benzo(a)pyrene	ND	330	330		µg/Kg-dry	1	10/3/2022
Benzo(b)fluoranthene	ND	330	330		µg/Kg-dry	1	10/3/2022
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	10/3/2022
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	10/3/2022
Bis(2-chloroethoxy)methane	ND	330	330		µg/Kg-dry	1	10/3/2022
Bis(2-chloroethyl)ether	ND	100	100		µg/Kg-dry	1	10/3/2022
Bis(2-chloroisopropyl)ether	ND	330	330		µg/Kg-dry	1	10/3/2022
Bis(2-ethylhexyl)phthalate	ND	330	330		µg/Kg-dry	1	10/3/2022
Butyl benzyl phthalate	ND	330	330		µg/Kg-dry	1	10/3/2022
Carbazole	ND	330	330		µg/Kg-dry	1	10/3/2022
Chrysene	ND	330	330		µg/Kg-dry	1	10/3/2022
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	10/3/2022
Dibenzofuran	ND	330	330		µg/Kg-dry	1	10/3/2022
Diethyl phthalate	ND	330	330		µg/Kg-dry	1	10/3/2022
Dimethyl phthalate	ND	330	330		µg/Kg-dry	1	10/3/2022
Di-n-butyl phthalate	ND	330	330		µg/Kg-dry	1	10/3/2022
Di-n-octyl phthalate	ND	330	330		µg/Kg-dry	1	10/3/2022
Fluoranthene	ND	330	330		µg/Kg-dry	1	10/3/2022
Fluorene	ND	330	330		µg/Kg-dry	1	10/3/2022
Hexachlorobenzene	ND	330	330		µg/Kg-dry	1	10/3/2022
Hexachlorobutadiene	ND	50	50		µg/Kg-dry	1	10/3/2022
Hexachlorocyclopentadiene	ND	330	330		µg/Kg-dry	1	10/3/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/3/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-08

Client Sample ID: DB-4 (1-3')
Collection Date: 9/28/2022 11:00:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	ND	330	330		µg/Kg-dry	1	10/3/2022
Isophorone	ND	330	330		µg/Kg-dry	1	10/3/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/3/2022
Nitrobenzene	ND	330	330		µg/Kg-dry	1	10/3/2022
N-Nitrosodi-n-propylamine	ND	330	330		µg/Kg-dry	1	10/3/2022
N-Nitrosodiphenylamine	ND	330	330		µg/Kg-dry	1	10/3/2022
Pentachlorophenol	ND	37	20		µg/Kg-dry	1	10/3/2022
Phenanthrene	ND	330	330		µg/Kg-dry	1	10/3/2022
Phenol	ND	330	330		µg/Kg-dry	1	10/3/2022
Pyrene	ND	330	330		µg/Kg-dry	1	10/3/2022
Surr: 2,4,6-Tribromophenol	62.0	48-94			%REC	1	10/3/2022
Surr: 2-Fluorobiphenyl	63.5	50-103			%REC	1	10/3/2022
Surr: 2-Fluorophenol	59.3	43-105			%REC	1	10/3/2022
Surr: 4-Terphenyl-d14	63.9	55-111			%REC	1	10/3/2022
Surr: Nitrobenzene-d5	57.2	47-100			%REC	1	10/3/2022
Surr: Phenol-d6	64.8	49-110			%REC	1	10/3/2022

VOLATILE ORGANIC COMPOUNDS

SW8260C

Prep Date: 10/3/2022

Analyst: **BG**

1,1,1,2-Tetrachloroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1,1-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2,2-Tetrachloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichlorotrifluoroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
1,2,3-Trichloropropane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2,4-Trichlorobenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
1,2,4-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dibromo-3-chloropropane	ND	130	10		µg/Kg-dry	1	10/6/2022
1,2-Dibromoethane	ND	38	20		µg/Kg-dry	1	10/6/2022
1,2-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dichloroethane	ND	130	50		µg/Kg-dry	1	10/6/2022
1,2-Dichloropropane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,3,5-Trimethylbenzene	ND	130	100		µg/Kg-dry	1	10/6/2022
1,3-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,4-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
2-Butanone	ND	750	750		µg/Kg-dry	1	10/6/2022
2-Hexanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
4-Methyl-2-pentanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
Acetone	ND	1,000	1,000		µg/Kg-dry	1	10/6/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-08

Client Sample ID: DB-4 (1-3')
Collection Date: 9/28/2022 11:00:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Acrylonitrile	ND	130	100		µg/Kg-dry	1	10/6/2022
Benzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Bromodichloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromoform	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromomethane	ND	200	200		µg/Kg-dry	1	10/6/2022
Carbon disulfide	ND	250	250		µg/Kg-dry	1	10/6/2022
Carbon tetrachloride	ND	50	50		µg/Kg-dry	1	10/6/2022
Chlorobenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloroethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Chloroform	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
cis-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
cis-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Dibromochloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Dibromomethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Dichlorodifluoromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Diethyl ether	ND	200	200		µg/Kg-dry	1	10/6/2022
Ethylbenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/6/2022
Isopropylbenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
m,p-Xylene	ND	100	100		µg/Kg-dry	1	10/6/2022
Methyl tert-butyl ether	ND	250	250		µg/Kg-dry	1	10/6/2022
Methylene chloride	ND	310	100		µg/Kg-dry	1	10/6/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
n-Propylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
o-Xylene	ND	50	50		µg/Kg-dry	1	10/6/2022
Styrene	ND	50	50		µg/Kg-dry	1	10/6/2022
Tetrachloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Toluene	ND	100	100		µg/Kg-dry	1	10/6/2022
trans-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
trans-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichlorofluoromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Vinyl acetate	ND	5,000	5,000		µg/Kg-dry	1	10/6/2022
Vinyl chloride	ND	40	40		µg/Kg-dry	1	10/6/2022
Xylenes, Total	ND	150	150		µg/Kg-dry	1	10/6/2022
Surr: 1,2-Dichloroethane-d4	105	80-120			%REC	1	10/6/2022
Surr: 4-Bromofluorobenzene	100	80-120			%REC	1	10/6/2022
Surr: Dibromofluoromethane	99.5	80-120			%REC	1	10/6/2022
Surr: Toluene-d8	101	80-120			%REC	1	10/6/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-08

Client Sample ID: DB-4 (1-3')
Collection Date: 9/28/2022 11:00:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MOISTURE			SW3550C				Analyst: ALG
Moisture	12	0.10	0		% of sample	1	10/3/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development
 Lab ID: 22092946-09

Client Sample ID: DB-5 (2-4')
 Collection Date: 9/28/2022 11:15:00 AM
 Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS			SW8082A		Prep Date: 10/6/2022		Analyst: RM
Aroclor 1016	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1221	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1232	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1242	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1248	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1254	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1260	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1262	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1268	ND	330	330		µg/Kg-dry	1	10/6/2022
Surr: Decachlorobiphenyl	53.6	68-137		S	%REC	1	10/6/2022
Surr: Tetrachloro-m-xylene	50.8	71-123		S	%REC	1	10/6/2022
MERCURY BY CVAA			SW7471B		Prep Date: 9/30/2022		Analyst: KRA
Mercury	ND	50	50		µg/Kg-dry	1	10/3/2022
METALS BY ICP-MS			SW6020B		Prep Date: 10/3/2022		Analyst: STP
Arsenic	5,400	2,000	2,000		µg/Kg-dry	1	10/3/2022
Barium	41,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Cadmium	ND	200	200		µg/Kg-dry	1	10/3/2022
Chromium	10,000	2,000	2,000		µg/Kg-dry	1	10/3/2022
Copper	12,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Lead	28,000	10,000	10,000		µg/Kg-dry	1	10/3/2022
Selenium	620	440	200		µg/Kg-dry	1	10/4/2022
Silver	ND	440	100		µg/Kg-dry	1	10/3/2022
Zinc	42,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep Date: 10/3/2022		Analyst: EEW
1,2,4-Trichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,2-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,3-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,4-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4,5-Trichlorophenol	ND	300	300		µg/Kg-dry	1	10/4/2022
2,4,6-Trichlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dichlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dimethylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dinitrophenol	ND	830	830		µg/Kg-dry	1	10/4/2022
2,4-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	10/4/2022
2,6-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Chlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development
 Lab ID: 22092946-09

Client Sample ID: DB-5 (2-4')
 Collection Date: 9/28/2022 11:15:00 AM
 Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Methylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
2-Nitrophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
3&4-Methylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
3,3'-Dichlorobenzidine	ND	2,000	2,000		µg/Kg-dry	1	10/4/2022
3-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
4,6-Dinitro-2-methylphenol	ND	830	830		µg/Kg-dry	1	10/4/2022
4-Bromophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Chloro-3-methylphenol	ND	280	280		µg/Kg-dry	1	10/4/2022
4-Chloroaniline	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Chlorophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
4-Nitrophenol	ND	830	830		µg/Kg-dry	1	10/4/2022
Acenaphthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Acenaphthylene	ND	330	330		µg/Kg-dry	1	10/4/2022
Anthracene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(a)anthracene	450	330	330		µg/Kg-dry	1	10/4/2022
Benzo(a)pyrene	500	330	330		µg/Kg-dry	1	10/4/2022
Benzo(b)fluoranthene	550	330	330		µg/Kg-dry	1	10/4/2022
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-chloroethoxy)methane	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-chloroethyl)ether	ND	100	100		µg/Kg-dry	1	10/4/2022
Bis(2-chloroisopropyl)ether	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-ethylhexyl)phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Butyl benzyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Carbazole	ND	330	330		µg/Kg-dry	1	10/4/2022
Chrysene	410	330	330		µg/Kg-dry	1	10/4/2022
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	10/4/2022
Dibenzofuran	ND	330	330		µg/Kg-dry	1	10/4/2022
Diethyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Dimethyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Di-n-butyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Di-n-octyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Fluoranthene	950	330	330		µg/Kg-dry	1	10/4/2022
Fluorene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachlorobutadiene	ND	50	50		µg/Kg-dry	1	10/4/2022
Hexachlorocyclopentadiene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/4/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-09

Client Sample ID: DB-5 (2-4')
Collection Date: 9/28/2022 11:15:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	340	330	330		µg/Kg-dry	1	10/4/2022
Isophorone	ND	330	330		µg/Kg-dry	1	10/4/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
Nitrobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
N-Nitrosodi-n-propylamine	ND	330	330		µg/Kg-dry	1	10/4/2022
N-Nitrosodiphenylamine	ND	330	330		µg/Kg-dry	1	10/4/2022
Pentachlorophenol	ND	36	20		µg/Kg-dry	1	10/4/2022
Phenanthrene	440	330	330		µg/Kg-dry	1	10/4/2022
Phenol	ND	330	330		µg/Kg-dry	1	10/4/2022
Pyrene	830	330	330		µg/Kg-dry	1	10/4/2022
Surr: 2,4,6-Tribromophenol	59.3	48-94			%REC	1	10/4/2022
Surr: 2-Fluorobiphenyl	59.1	50-103			%REC	1	10/4/2022
Surr: 2-Fluorophenol	53.2	43-105			%REC	1	10/4/2022
Surr: 4-Terphenyl-d14	61.3	55-111			%REC	1	10/4/2022
Surr: Nitrobenzene-d5	57.0	47-100			%REC	1	10/4/2022
Surr: Phenol-d6	59.1	49-110			%REC	1	10/4/2022

VOLATILE ORGANIC COMPOUNDS

SW8260C

Prep Date: 10/3/2022

Analyst: **BG**

1,1,1,2-Tetrachloroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1,1-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2,2-Tetrachloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichlorotrifluoroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
1,2,3-Trichloropropane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2,4-Trichlorobenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
1,2,4-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dibromo-3-chloropropane	ND	130	10		µg/Kg-dry	1	10/6/2022
1,2-Dibromoethane	ND	39	20		µg/Kg-dry	1	10/6/2022
1,2-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dichloroethane	ND	130	50		µg/Kg-dry	1	10/6/2022
1,2-Dichloropropane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,3,5-Trimethylbenzene	ND	130	100		µg/Kg-dry	1	10/6/2022
1,3-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,4-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
2-Butanone	ND	750	750		µg/Kg-dry	1	10/6/2022
2-Hexanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
4-Methyl-2-pentanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
Acetone	ND	1,000	1,000		µg/Kg-dry	1	10/6/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-09

Client Sample ID: DB-5 (2-4')
Collection Date: 9/28/2022 11:15:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Acrylonitrile	ND	130	100		µg/Kg-dry	1	10/6/2022
Benzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Bromodichloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromoform	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromomethane	ND	200	200		µg/Kg-dry	1	10/6/2022
Carbon disulfide	ND	250	250		µg/Kg-dry	1	10/6/2022
Carbon tetrachloride	ND	50	50		µg/Kg-dry	1	10/6/2022
Chlorobenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloroethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Chloroform	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
cis-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
cis-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Dibromochloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Dibromomethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Dichlorodifluoromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Diethyl ether	ND	200	200		µg/Kg-dry	1	10/6/2022
Ethylbenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/6/2022
Isopropylbenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
m,p-Xylene	ND	100	100		µg/Kg-dry	1	10/6/2022
Methyl tert-butyl ether	ND	250	250		µg/Kg-dry	1	10/6/2022
Methylene chloride	ND	320	100		µg/Kg-dry	1	10/6/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
n-Propylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
o-Xylene	ND	50	50		µg/Kg-dry	1	10/6/2022
Styrene	ND	50	50		µg/Kg-dry	1	10/6/2022
Tetrachloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Toluene	ND	100	100		µg/Kg-dry	1	10/6/2022
trans-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
trans-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichlorofluoromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Vinyl acetate	ND	5,000	5,000		µg/Kg-dry	1	10/6/2022
Vinyl chloride	ND	40	40		µg/Kg-dry	1	10/6/2022
Xylenes, Total	ND	150	150		µg/Kg-dry	1	10/6/2022
Surr: 1,2-Dichloroethane-d4	103	80-120			%REC	1	10/6/2022
Surr: 4-Bromofluorobenzene	96.7	80-120			%REC	1	10/6/2022
Surr: Dibromofluoromethane	97.4	80-120			%REC	1	10/6/2022
Surr: Toluene-d8	102	80-120			%REC	1	10/6/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-09

Client Sample ID: DB-5 (2-4')
Collection Date: 9/28/2022 11:15:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MOISTURE			SW3550C				Analyst: ALG
Moisture	7.2	0.10	0		% of sample	1	10/3/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-10

Client Sample ID: DB-6 (2-4')
Collection Date: 9/28/2022 11:30:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS			SW8082A		Prep Date: 10/6/2022	Analyst: RM	
Aroclor 1016	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1221	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1232	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1242	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1248	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1254	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1260	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1262	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1268	ND	330	330		µg/Kg-dry	1	10/6/2022
Surr: Decachlorobiphenyl	36.5	68-137		S	%REC	1	10/6/2022
Surr: Tetrachloro-m-xylene	35.1	71-123		S	%REC	1	10/6/2022
MERCURY BY CVAA			SW7471B		Prep Date: 9/30/2022	Analyst: KRA	
Mercury	ND	50	50		µg/Kg-dry	1	10/3/2022
METALS BY ICP-MS			SW6020B		Prep Date: 10/3/2022	Analyst: STP	
Arsenic	5,400	2,000	2,000		µg/Kg-dry	1	10/3/2022
Barium	42,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Cadmium	ND	200	200		µg/Kg-dry	1	10/3/2022
Chromium	10,000	2,000	2,000		µg/Kg-dry	1	10/3/2022
Copper	11,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Lead	12,000	10,000	10,000		µg/Kg-dry	1	10/3/2022
Selenium	370	350	200		µg/Kg-dry	1	10/4/2022
Silver	ND	350	100		µg/Kg-dry	1	10/3/2022
Zinc	35,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep Date: 10/3/2022	Analyst: EEW	
1,2,4-Trichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,2-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,3-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,4-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4,5-Trichlorophenol	ND	300	300		µg/Kg-dry	1	10/4/2022
2,4,6-Trichlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dichlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dimethylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dinitrophenol	ND	830	830		µg/Kg-dry	1	10/4/2022
2,4-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	10/4/2022
2,6-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Chlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-10

Client Sample ID: DB-6 (2-4')
Collection Date: 9/28/2022 11:30:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Methylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
2-Nitrophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
3&4-Methylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
3,3'-Dichlorobenzidine	ND	2,000	2,000		µg/Kg-dry	1	10/4/2022
3-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
4,6-Dinitro-2-methylphenol	ND	830	830		µg/Kg-dry	1	10/4/2022
4-Bromophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Chloro-3-methylphenol	ND	280	280		µg/Kg-dry	1	10/4/2022
4-Chloroaniline	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Chlorophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
4-Nitrophenol	ND	830	830		µg/Kg-dry	1	10/4/2022
Acenaphthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Acenaphthylene	ND	330	330		µg/Kg-dry	1	10/4/2022
Anthracene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(a)anthracene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(a)pyrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(b)fluoranthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-chloroethoxy)methane	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-chloroethyl)ether	ND	100	100		µg/Kg-dry	1	10/4/2022
Bis(2-chloroisopropyl)ether	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-ethylhexyl)phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Butyl benzyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Carbazole	ND	330	330		µg/Kg-dry	1	10/4/2022
Chrysene	ND	330	330		µg/Kg-dry	1	10/4/2022
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	10/4/2022
Dibenzofuran	ND	330	330		µg/Kg-dry	1	10/4/2022
Diethyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Dimethyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Di-n-butyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Di-n-octyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Fluoranthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Fluorene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachlorobutadiene	ND	50	50		µg/Kg-dry	1	10/4/2022
Hexachlorocyclopentadiene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/4/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-10

Client Sample ID: DB-6 (2-4')
Collection Date: 9/28/2022 11:30:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Isophorone	ND	330	330		µg/Kg-dry	1	10/4/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
Nitrobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
N-Nitrosodi-n-propylamine	ND	330	330		µg/Kg-dry	1	10/4/2022
N-Nitrosodiphenylamine	ND	330	330		µg/Kg-dry	1	10/4/2022
Pentachlorophenol	ND	35	20		µg/Kg-dry	1	10/4/2022
Phenanthrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Phenol	ND	330	330		µg/Kg-dry	1	10/4/2022
Pyrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Surr: 2,4,6-Tribromophenol	54.0	48-94			%REC	1	10/4/2022
Surr: 2-Fluorobiphenyl	59.8	50-103			%REC	1	10/4/2022
Surr: 2-Fluorophenol	53.9	43-105			%REC	1	10/4/2022
Surr: 4-Terphenyl-d14	60.6	55-111			%REC	1	10/4/2022
Surr: Nitrobenzene-d5	56.4	47-100			%REC	1	10/4/2022
Surr: Phenol-d6	58.6	49-110			%REC	1	10/4/2022

VOLATILE ORGANIC COMPOUNDS

SW8260C

Prep Date: 10/3/2022

Analyst: **BG**

1,1,1,2-Tetrachloroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1,1-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2,2-Tetrachloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichlorotrifluoroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
1,2,3-Trichloropropane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2,4-Trichlorobenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
1,2,4-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dibromo-3-chloropropane	ND	130	10		µg/Kg-dry	1	10/6/2022
1,2-Dibromoethane	ND	38	20		µg/Kg-dry	1	10/6/2022
1,2-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dichloroethane	ND	130	50		µg/Kg-dry	1	10/6/2022
1,2-Dichloropropane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,3,5-Trimethylbenzene	ND	130	100		µg/Kg-dry	1	10/6/2022
1,3-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,4-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
2-Butanone	ND	750	750		µg/Kg-dry	1	10/6/2022
2-Hexanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
4-Methyl-2-pentanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
Acetone	ND	1,000	1,000		µg/Kg-dry	1	10/6/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-10

Client Sample ID: DB-6 (2-4')
Collection Date: 9/28/2022 11:30:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Acrylonitrile	ND	130	100		µg/Kg-dry	1	10/6/2022
Benzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Bromodichloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromoform	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromomethane	ND	200	200		µg/Kg-dry	1	10/6/2022
Carbon disulfide	ND	250	250		µg/Kg-dry	1	10/6/2022
Carbon tetrachloride	ND	50	50		µg/Kg-dry	1	10/6/2022
Chlorobenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloroethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Chloroform	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
cis-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
cis-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Dibromochloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Dibromomethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Dichlorodifluoromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Diethyl ether	ND	200	200		µg/Kg-dry	1	10/6/2022
Ethylbenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/6/2022
Isopropylbenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
m,p-Xylene	ND	100	100		µg/Kg-dry	1	10/6/2022
Methyl tert-butyl ether	ND	250	250		µg/Kg-dry	1	10/6/2022
Methylene chloride	ND	310	100		µg/Kg-dry	1	10/6/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
n-Propylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
o-Xylene	ND	50	50		µg/Kg-dry	1	10/6/2022
Styrene	ND	50	50		µg/Kg-dry	1	10/6/2022
Tetrachloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Toluene	ND	100	100		µg/Kg-dry	1	10/6/2022
trans-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
trans-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichlorofluoromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Vinyl acetate	ND	5,000	5,000		µg/Kg-dry	1	10/6/2022
Vinyl chloride	ND	40	40		µg/Kg-dry	1	10/6/2022
Xylenes, Total	ND	150	150		µg/Kg-dry	1	10/6/2022
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>107</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>101</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>
<i>Surr: Dibromofluoromethane</i>	<i>93.9</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>
<i>Surr: Toluene-d8</i>	<i>101</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-10

Client Sample ID: DB-6 (2-4')
Collection Date: 9/28/2022 11:30:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MOISTURE			SW3550C				Analyst: ALG
Moisture	7.8	0.10	0		% of sample	1	10/3/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-11

Client Sample ID: DB-7 (4-6')
Collection Date: 9/28/2022 11:45:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS			SW8082A		Prep Date: 10/3/2022		Analyst: RM
Aroclor 1016	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1221	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1232	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1242	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1248	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1254	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1260	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1262	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1268	ND	330	330		µg/Kg-dry	1	10/4/2022
Surr: Decachlorobiphenyl	79.3	68-137			%REC	1	10/4/2022
Surr: Tetrachloro-m-xylene	94.6	71-123			%REC	1	10/4/2022
MERCURY BY CVAA			SW7471B		Prep Date: 9/30/2022		Analyst: KRA
Mercury	190	50	50		µg/Kg-dry	1	10/3/2022
METALS BY ICP-MS			SW6020B		Prep Date: 10/3/2022		Analyst: STP
Arsenic	5,000	2,000	2,000		µg/Kg-dry	1	10/3/2022
Barium	50,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Cadmium	ND	200	200		µg/Kg-dry	1	10/3/2022
Chromium	9,500	2,000	2,000		µg/Kg-dry	1	10/3/2022
Copper	12,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Lead	45,000	10,000	10,000		µg/Kg-dry	1	10/3/2022
Selenium	480	420	200		µg/Kg-dry	1	10/4/2022
Silver	ND	420	100		µg/Kg-dry	1	10/3/2022
Zinc	38,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep Date: 10/3/2022		Analyst: EEW
1,2,4-Trichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,2-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,3-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
1,4-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4,5-Trichlorophenol	ND	300	300		µg/Kg-dry	1	10/4/2022
2,4,6-Trichlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dichlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dimethylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2,4-Dinitrophenol	ND	830	830		µg/Kg-dry	1	10/4/2022
2,4-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	10/4/2022
2,6-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Chlorophenol	ND	330	330		µg/Kg-dry	1	10/4/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-11

Client Sample ID: DB-7 (4-6')
Collection Date: 9/28/2022 11:45:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Methylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
2-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
2-Nitrophenol	ND	330	330		µg/Kg-dry	1	10/4/2022
3&4-Methylphenol	ND	330	330		µg/Kg-dry	1	10/4/2022
3,3'-Dichlorobenzidine	ND	2,000	2,000		µg/Kg-dry	1	10/4/2022
3-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
4,6-Dinitro-2-methylphenol	ND	830	830		µg/Kg-dry	1	10/4/2022
4-Bromophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Chloro-3-methylphenol	ND	280	280		µg/Kg-dry	1	10/4/2022
4-Chloroaniline	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Chlorophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	10/4/2022
4-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/4/2022
4-Nitrophenol	ND	830	830		µg/Kg-dry	1	10/4/2022
Acenaphthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Acenaphthylene	ND	330	330		µg/Kg-dry	1	10/4/2022
Anthracene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(a)anthracene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(a)pyrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(b)fluoranthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	10/4/2022
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-chloroethoxy)methane	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-chloroethyl)ether	ND	100	100		µg/Kg-dry	1	10/4/2022
Bis(2-chloroisopropyl)ether	ND	330	330		µg/Kg-dry	1	10/4/2022
Bis(2-ethylhexyl)phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Butyl benzyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Carbazole	ND	330	330		µg/Kg-dry	1	10/4/2022
Chrysene	ND	330	330		µg/Kg-dry	1	10/4/2022
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	10/4/2022
Dibenzofuran	ND	330	330		µg/Kg-dry	1	10/4/2022
Diethyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Dimethyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Di-n-butyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Di-n-octyl phthalate	ND	330	330		µg/Kg-dry	1	10/4/2022
Fluoranthene	ND	330	330		µg/Kg-dry	1	10/4/2022
Fluorene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachlorobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachlorobutadiene	ND	50	50		µg/Kg-dry	1	10/4/2022
Hexachlorocyclopentadiene	ND	330	330		µg/Kg-dry	1	10/4/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/4/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-11

Client Sample ID: DB-7 (4-6')
Collection Date: 9/28/2022 11:45:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Isophorone	ND	330	330		µg/Kg-dry	1	10/4/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/4/2022
Nitrobenzene	ND	330	330		µg/Kg-dry	1	10/4/2022
N-Nitrosodi-n-propylamine	ND	330	330		µg/Kg-dry	1	10/4/2022
N-Nitrosodiphenylamine	ND	330	330		µg/Kg-dry	1	10/4/2022
Pentachlorophenol	ND	36	20		µg/Kg-dry	1	10/4/2022
Phenanthrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Phenol	ND	330	330		µg/Kg-dry	1	10/4/2022
Pyrene	ND	330	330		µg/Kg-dry	1	10/4/2022
Surr: 2,4,6-Tribromophenol	58.6	48-94			%REC	1	10/4/2022
Surr: 2-Fluorobiphenyl	60.7	50-103			%REC	1	10/4/2022
Surr: 2-Fluorophenol	58.9	43-105			%REC	1	10/4/2022
Surr: 4-Terphenyl-d14	61.6	55-111			%REC	1	10/4/2022
Surr: Nitrobenzene-d5	60.0	47-100			%REC	1	10/4/2022
Surr: Phenol-d6	64.8	49-110			%REC	1	10/4/2022

VOLATILE ORGANIC COMPOUNDS

SW8260C

Prep Date: 10/3/2022

Analyst: **BG**

1,1,1,2-Tetrachloroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1,1-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2,2-Tetrachloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichlorotrifluoroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
1,2,3-Trichloropropane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2,4-Trichlorobenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
1,2,4-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dibromo-3-chloropropane	ND	110	10		µg/Kg-dry	1	10/6/2022
1,2-Dibromoethane	ND	33	20		µg/Kg-dry	1	10/6/2022
1,2-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dichloroethane	ND	110	50		µg/Kg-dry	1	10/6/2022
1,2-Dichloropropane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,3,5-Trimethylbenzene	ND	110	100		µg/Kg-dry	1	10/6/2022
1,3-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,4-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
2-Butanone	ND	750	750		µg/Kg-dry	1	10/6/2022
2-Hexanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
4-Methyl-2-pentanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
Acetone	ND	1,000	1,000		µg/Kg-dry	1	10/6/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-11

Client Sample ID: DB-7 (4-6')
Collection Date: 9/28/2022 11:45:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Acrylonitrile	ND	110	100		µg/Kg-dry	1	10/6/2022
Benzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Bromodichloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromoform	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromomethane	ND	200	200		µg/Kg-dry	1	10/6/2022
Carbon disulfide	ND	250	250		µg/Kg-dry	1	10/6/2022
Carbon tetrachloride	ND	50	50		µg/Kg-dry	1	10/6/2022
Chlorobenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloroethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Chloroform	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
cis-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
cis-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Dibromochloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Dibromomethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Dichlorodifluoromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Diethyl ether	ND	200	200		µg/Kg-dry	1	10/6/2022
Ethylbenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/6/2022
Isopropylbenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
m,p-Xylene	ND	100	100		µg/Kg-dry	1	10/6/2022
Methyl tert-butyl ether	ND	250	250		µg/Kg-dry	1	10/6/2022
Methylene chloride	ND	280	100		µg/Kg-dry	1	10/6/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
n-Propylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
o-Xylene	ND	50	50		µg/Kg-dry	1	10/6/2022
Styrene	ND	50	50		µg/Kg-dry	1	10/6/2022
Tetrachloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Toluene	ND	100	100		µg/Kg-dry	1	10/6/2022
trans-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
trans-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichlorofluoromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Vinyl acetate	ND	5,000	5,000		µg/Kg-dry	1	10/6/2022
Vinyl chloride	ND	40	40		µg/Kg-dry	1	10/6/2022
Xylenes, Total	ND	150	150		µg/Kg-dry	1	10/6/2022
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>107</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>101</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>
<i>Surr: Dibromofluoromethane</i>	<i>95.6</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>
<i>Surr: Toluene-d8</i>	<i>102</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-11

Client Sample ID: DB-7 (4-6')
Collection Date: 9/28/2022 11:45:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MOISTURE			SW3550C				Analyst: ALG
Moisture	9.3	0.10	0		% of sample	1	10/3/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-12

Client Sample ID: DB-8 (4-6')
Collection Date: 9/28/2022 12:05:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS			SW8082A		Prep Date: 10/3/2022		Analyst: RM
Aroclor 1016	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1221	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1232	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1242	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1248	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1254	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1260	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1262	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1268	ND	330	330		µg/Kg-dry	1	10/4/2022
Surr: Decachlorobiphenyl	90.4	68-137			%REC	1	10/4/2022
Surr: Tetrachloro-m-xylene	80.6	71-123			%REC	1	10/4/2022
MERCURY BY CVAA			SW7471B		Prep Date: 9/30/2022		Analyst: KRA
Mercury	110	50	50		µg/Kg-dry	1	10/3/2022
METALS BY ICP-MS			SW6020B		Prep Date: 10/3/2022		Analyst: STP
Arsenic	6,600	2,000	2,000		µg/Kg-dry	1	10/3/2022
Barium	210,000	4,500	1,000		µg/Kg-dry	10	10/4/2022
Cadmium	450	200	200		µg/Kg-dry	1	10/3/2022
Chromium	13,000	2,000	2,000		µg/Kg-dry	1	10/3/2022
Copper	22,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Lead	210,000	10,000	10,000		µg/Kg-dry	10	10/4/2022
Selenium	950	450	200		µg/Kg-dry	1	10/4/2022
Silver	ND	450	100		µg/Kg-dry	1	10/3/2022
Zinc	150,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep Date: 10/4/2022		Analyst: EE
1,2,4-Trichlorobenzene	ND	330	330		µg/Kg-dry	1	10/5/2022
1,2-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/5/2022
1,3-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/5/2022
1,4-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/5/2022
2,4,5-Trichlorophenol	ND	300	300		µg/Kg-dry	1	10/5/2022
2,4,6-Trichlorophenol	ND	330	330		µg/Kg-dry	1	10/5/2022
2,4-Dichlorophenol	ND	330	330		µg/Kg-dry	1	10/5/2022
2,4-Dimethylphenol	ND	330	330		µg/Kg-dry	1	10/5/2022
2,4-Dinitrophenol	ND	830	830		µg/Kg-dry	1	10/5/2022
2,4-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	10/5/2022
2,6-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	10/5/2022
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	1	10/5/2022
2-Chlorophenol	ND	330	330		µg/Kg-dry	1	10/5/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-12

Client Sample ID: DB-8 (4-6')
Collection Date: 9/28/2022 12:05:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/5/2022
2-Methylphenol	ND	330	330		µg/Kg-dry	1	10/5/2022
2-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/5/2022
2-Nitrophenol	ND	330	330		µg/Kg-dry	1	10/5/2022
3&4-Methylphenol	ND	330	330		µg/Kg-dry	1	10/5/2022
3,3'-Dichlorobenzidine	ND	2,000	2,000		µg/Kg-dry	1	10/5/2022
3-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/5/2022
4,6-Dinitro-2-methylphenol	ND	830	830		µg/Kg-dry	1	10/5/2022
4-Bromophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	10/5/2022
4-Chloro-3-methylphenol	ND	280	280		µg/Kg-dry	1	10/5/2022
4-Chloroaniline	ND	330	330		µg/Kg-dry	1	10/5/2022
4-Chlorophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	10/5/2022
4-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/5/2022
4-Nitrophenol	ND	830	830		µg/Kg-dry	1	10/5/2022
Acenaphthene	ND	330	330		µg/Kg-dry	1	10/5/2022
Acenaphthylene	ND	330	330		µg/Kg-dry	1	10/5/2022
Anthracene	ND	330	330		µg/Kg-dry	1	10/5/2022
Benzo(a)anthracene	780	330	330		µg/Kg-dry	1	10/5/2022
Benzo(a)pyrene	950	330	330		µg/Kg-dry	1	10/5/2022
Benzo(b)fluoranthene	1,100	330	330		µg/Kg-dry	1	10/5/2022
Benzo(g,h,i)perylene	560	330	330		µg/Kg-dry	1	10/5/2022
Benzo(k)fluoranthene	360	330	330		µg/Kg-dry	1	10/5/2022
Bis(2-chloroethoxy)methane	ND	330	330		µg/Kg-dry	1	10/5/2022
Bis(2-chloroethyl)ether	ND	100	100		µg/Kg-dry	1	10/5/2022
Bis(2-chloroisopropyl)ether	ND	330	330		µg/Kg-dry	1	10/5/2022
Bis(2-ethylhexyl)phthalate	ND	330	330		µg/Kg-dry	1	10/5/2022
Butyl benzyl phthalate	ND	330	330		µg/Kg-dry	1	10/5/2022
Carbazole	ND	330	330		µg/Kg-dry	1	10/5/2022
Chrysene	730	330	330		µg/Kg-dry	1	10/5/2022
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	10/5/2022
Dibenzofuran	ND	330	330		µg/Kg-dry	1	10/5/2022
Diethyl phthalate	ND	330	330		µg/Kg-dry	1	10/5/2022
Dimethyl phthalate	ND	330	330		µg/Kg-dry	1	10/5/2022
Di-n-butyl phthalate	ND	330	330		µg/Kg-dry	1	10/5/2022
Di-n-octyl phthalate	ND	330	330		µg/Kg-dry	1	10/5/2022
Fluoranthene	1,200	330	330		µg/Kg-dry	1	10/5/2022
Fluorene	ND	330	330		µg/Kg-dry	1	10/5/2022
Hexachlorobenzene	ND	330	330		µg/Kg-dry	1	10/5/2022
Hexachlorobutadiene	ND	50	50		µg/Kg-dry	1	10/5/2022
Hexachlorocyclopentadiene	ND	330	330		µg/Kg-dry	1	10/5/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/5/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-12

Client Sample ID: DB-8 (4-6')
Collection Date: 9/28/2022 12:05:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	630	330	330		µg/Kg-dry	1	10/5/2022
Isophorone	ND	330	330		µg/Kg-dry	1	10/5/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/5/2022
Nitrobenzene	ND	330	330		µg/Kg-dry	1	10/5/2022
N-Nitrosodi-n-propylamine	ND	330	330		µg/Kg-dry	1	10/5/2022
N-Nitrosodiphenylamine	ND	330	330		µg/Kg-dry	1	10/5/2022
Pentachlorophenol	ND	38	20		µg/Kg-dry	1	10/5/2022
Phenanthrene	500	330	330		µg/Kg-dry	1	10/5/2022
Phenol	ND	330	330		µg/Kg-dry	1	10/5/2022
Pyrene	1,300	330	330		µg/Kg-dry	1	10/5/2022
Surr: 2,4,6-Tribromophenol	68.5	48-94			%REC	1	10/5/2022
Surr: 2-Fluorobiphenyl	71.5	50-103			%REC	1	10/5/2022
Surr: 2-Fluorophenol	56.2	43-105			%REC	1	10/5/2022
Surr: 4-Terphenyl-d14	69.8	55-111			%REC	1	10/5/2022
Surr: Nitrobenzene-d5	67.7	47-100			%REC	1	10/5/2022
Surr: Phenol-d6	62.3	49-110			%REC	1	10/5/2022

VOLATILE ORGANIC COMPOUNDS

SW8260C

Prep Date: 10/3/2022

Analyst: **BG**

1,1,1,2-Tetrachloroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1,1-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2,2-Tetrachloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichlorotrifluoroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
1,2,3-Trichloropropane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2,4-Trichlorobenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
1,2,4-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dibromo-3-chloropropane	ND	150	10		µg/Kg-dry	1	10/6/2022
1,2-Dibromoethane	ND	46	20		µg/Kg-dry	1	10/6/2022
1,2-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dichloroethane	ND	150	50		µg/Kg-dry	1	10/6/2022
1,2-Dichloropropane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,3,5-Trimethylbenzene	ND	150	100		µg/Kg-dry	1	10/6/2022
1,3-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,4-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
2-Butanone	ND	750	750		µg/Kg-dry	1	10/6/2022
2-Hexanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
4-Methyl-2-pentanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
Acetone	ND	1,000	1,000		µg/Kg-dry	1	10/6/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-12

Client Sample ID: DB-8 (4-6')
Collection Date: 9/28/2022 12:05:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Acrylonitrile	ND	150	100		µg/Kg-dry	1	10/6/2022
Benzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Bromodichloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromoform	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromomethane	ND	200	200		µg/Kg-dry	1	10/6/2022
Carbon disulfide	ND	250	250		µg/Kg-dry	1	10/6/2022
Carbon tetrachloride	ND	50	50		µg/Kg-dry	1	10/6/2022
Chlorobenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloroethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Chloroform	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
cis-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
cis-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Dibromochloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Dibromomethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Dichlorodifluoromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Diethyl ether	ND	200	200		µg/Kg-dry	1	10/6/2022
Ethylbenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/6/2022
Isopropylbenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
m,p-Xylene	ND	100	100		µg/Kg-dry	1	10/6/2022
Methyl tert-butyl ether	ND	250	250		µg/Kg-dry	1	10/6/2022
Methylene chloride	ND	390	100		µg/Kg-dry	1	10/6/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
n-Propylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
o-Xylene	ND	50	50		µg/Kg-dry	1	10/6/2022
Styrene	ND	50	50		µg/Kg-dry	1	10/6/2022
Tetrachloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Toluene	ND	100	100		µg/Kg-dry	1	10/6/2022
trans-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
trans-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichlorofluoromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Vinyl acetate	ND	5,000	5,000		µg/Kg-dry	1	10/6/2022
Vinyl chloride	ND	46	40		µg/Kg-dry	1	10/6/2022
Xylenes, Total	ND	150	150		µg/Kg-dry	1	10/6/2022
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>104</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>100</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>
<i>Surr: Dibromofluoromethane</i>	<i>94.2</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>
<i>Surr: Toluene-d8</i>	<i>102</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-12

Client Sample ID: DB-8 (4-6')
Collection Date: 9/28/2022 12:05:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MOISTURE			SW3550C				Analyst: ALG
Moisture	15	0.10	0		% of sample	1	10/3/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-13

Client Sample ID: DB-9 (2-4')
Collection Date: 9/28/2022 12:20:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS			SW8082A		Prep Date: 10/3/2022		Analyst: RM
Aroclor 1016	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1221	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1232	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1242	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1248	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1254	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1260	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1262	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1268	ND	330	330		µg/Kg-dry	1	10/4/2022
Surr: Decachlorobiphenyl	79.6	68-137			%REC	1	10/4/2022
Surr: Tetrachloro-m-xylene	65.1	71-123		S	%REC	1	10/4/2022
MERCURY BY CVAA			SW7471B		Prep Date: 9/30/2022		Analyst: KRA
Mercury	56	50	50		µg/Kg-dry	1	10/3/2022
METALS BY ICP-MS			SW6020B		Prep Date: 10/3/2022		Analyst: STP
Arsenic	5,500	2,000	2,000		µg/Kg-dry	1	10/3/2022
Barium	40,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Cadmium	ND	200	200		µg/Kg-dry	1	10/3/2022
Chromium	9,800	2,000	2,000		µg/Kg-dry	1	10/3/2022
Copper	11,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Lead	18,000	10,000	10,000		µg/Kg-dry	1	10/3/2022
Selenium	ND	380	200		µg/Kg-dry	1	10/3/2022
Silver	ND	380	100		µg/Kg-dry	1	10/3/2022
Zinc	33,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep Date: 10/4/2022		Analyst: EE
1,2,4-Trichlorobenzene	ND	350	330		µg/Kg-dry	10	10/5/2022
1,2-Dichlorobenzene	ND	350	330		µg/Kg-dry	10	10/5/2022
1,3-Dichlorobenzene	ND	350	330		µg/Kg-dry	10	10/5/2022
1,4-Dichlorobenzene	ND	350	330		µg/Kg-dry	10	10/5/2022
2,4,5-Trichlorophenol	ND	350	300		µg/Kg-dry	10	10/5/2022
2,4,6-Trichlorophenol	ND	350	330		µg/Kg-dry	10	10/5/2022
2,4-Dichlorophenol	ND	350	330		µg/Kg-dry	10	10/5/2022
2,4-Dimethylphenol	ND	350	330		µg/Kg-dry	10	10/5/2022
2,4-Dinitrophenol	ND	7,100	830		µg/Kg-dry	10	10/5/2022
2,4-Dinitrotoluene	ND	350	330		µg/Kg-dry	10	10/5/2022
2,6-Dinitrotoluene	ND	350	330		µg/Kg-dry	10	10/5/2022
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	10	10/5/2022
2-Chlorophenol	ND	350	330		µg/Kg-dry	10	10/5/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development
 Lab ID: 22092946-13

Client Sample ID: DB-9 (2-4')
 Collection Date: 9/28/2022 12:20:00 PM
 Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	10	10/5/2022
2-Methylphenol	ND	350	330		µg/Kg-dry	10	10/5/2022
2-Nitroaniline	ND	830	830		µg/Kg-dry	10	10/5/2022
2-Nitrophenol	ND	350	330		µg/Kg-dry	10	10/5/2022
3&4-Methylphenol	ND	350	330		µg/Kg-dry	10	10/5/2022
3,3'-Dichlorobenzidine	ND	2,000	2,000		µg/Kg-dry	10	10/5/2022
3-Nitroaniline	ND	830	830		µg/Kg-dry	10	10/5/2022
4,6-Dinitro-2-methylphenol	ND	830	830		µg/Kg-dry	10	10/5/2022
4-Bromophenyl phenyl ether	ND	350	330		µg/Kg-dry	10	10/5/2022
4-Chloro-3-methylphenol	ND	350	280		µg/Kg-dry	10	10/5/2022
4-Chloroaniline	ND	720	330		µg/Kg-dry	10	10/5/2022
4-Chlorophenyl phenyl ether	ND	350	330		µg/Kg-dry	10	10/5/2022
4-Nitroaniline	ND	1,800	830		µg/Kg-dry	10	10/5/2022
4-Nitrophenol	ND	1,800	830		µg/Kg-dry	10	10/5/2022
Acenaphthene	ND	330	330		µg/Kg-dry	10	10/5/2022
Acenaphthylene	ND	330	330		µg/Kg-dry	10	10/5/2022
Anthracene	370	330	330		µg/Kg-dry	10	10/5/2022
Benzo(a)anthracene	860	330	330		µg/Kg-dry	10	10/5/2022
Benzo(a)pyrene	790	330	330		µg/Kg-dry	10	10/5/2022
Benzo(b)fluoranthene	880	330	330		µg/Kg-dry	10	10/5/2022
Benzo(g,h,i)perylene	400	330	330		µg/Kg-dry	10	10/5/2022
Benzo(k)fluoranthene	360	330	330		µg/Kg-dry	10	10/5/2022
Bis(2-chloroethoxy)methane	ND	350	330		µg/Kg-dry	10	10/5/2022
Bis(2-chloroethyl)ether	ND	350	100		µg/Kg-dry	10	10/5/2022
Bis(2-chloroisopropyl)ether	ND	350	330		µg/Kg-dry	10	10/5/2022
Bis(2-ethylhexyl)phthalate	ND	350	330		µg/Kg-dry	10	10/5/2022
Butyl benzyl phthalate	ND	720	330		µg/Kg-dry	10	10/5/2022
Carbazole	ND	350	330		µg/Kg-dry	10	10/5/2022
Chrysene	660	330	330		µg/Kg-dry	10	10/5/2022
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	10	10/5/2022
Dibenzofuran	ND	350	330		µg/Kg-dry	10	10/5/2022
Diethyl phthalate	ND	350	330		µg/Kg-dry	10	10/5/2022
Dimethyl phthalate	ND	350	330		µg/Kg-dry	10	10/5/2022
Di-n-butyl phthalate	ND	350	330		µg/Kg-dry	10	10/5/2022
Di-n-octyl phthalate	ND	350	330		µg/Kg-dry	10	10/5/2022
Fluoranthene	1,500	330	330		µg/Kg-dry	10	10/5/2022
Fluorene	ND	330	330		µg/Kg-dry	10	10/5/2022
Hexachlorobenzene	ND	350	330		µg/Kg-dry	10	10/5/2022
Hexachlorobutadiene	ND	350	50		µg/Kg-dry	10	10/5/2022
Hexachlorocyclopentadiene	ND	350	330		µg/Kg-dry	10	10/5/2022
Hexachloroethane	ND	350	300		µg/Kg-dry	10	10/5/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-13

Client Sample ID: DB-9 (2-4')
Collection Date: 9/28/2022 12:20:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	450	330	330		µg/Kg-dry	10	10/5/2022
Isophorone	ND	1,800	330		µg/Kg-dry	10	10/5/2022
Naphthalene	ND	330	330		µg/Kg-dry	10	10/5/2022
Nitrobenzene	ND	1,800	330		µg/Kg-dry	10	10/5/2022
N-Nitrosodi-n-propylamine	ND	350	330		µg/Kg-dry	10	10/5/2022
N-Nitrosodiphenylamine	ND	350	330		µg/Kg-dry	10	10/5/2022
Pentachlorophenol	ND	350	20		µg/Kg-dry	10	10/5/2022
Phenanthrene	1,100	330	330		µg/Kg-dry	10	10/5/2022
Phenol	ND	350	330		µg/Kg-dry	10	10/5/2022
Pyrene	1,300	330	330		µg/Kg-dry	10	10/5/2022
Surr: 2,4,6-Tribromophenol	70.0	48-94			%REC	10	10/5/2022
Surr: 2-Fluorobiphenyl	75.2	50-103			%REC	10	10/5/2022
Surr: 2-Fluorophenol	67.2	43-105			%REC	10	10/5/2022
Surr: 4-Terphenyl-d14	71.2	55-111			%REC	10	10/5/2022
Surr: Nitrobenzene-d5	67.4	47-100			%REC	10	10/5/2022
Surr: Phenol-d6	72.4	49-110			%REC	10	10/5/2022

VOLATILE ORGANIC COMPOUNDS

SW8260C

Prep Date: 10/3/2022

Analyst: **BG**

1,1,1,2-Tetrachloroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1,1-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2,2-Tetrachloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichlorotrifluoroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
1,2,3-Trichloropropane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2,4-Trichlorobenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
1,2,4-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dibromo-3-chloropropane	ND	120	10		µg/Kg-dry	1	10/6/2022
1,2-Dibromoethane	ND	35	20		µg/Kg-dry	1	10/6/2022
1,2-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dichloroethane	ND	120	50		µg/Kg-dry	1	10/6/2022
1,2-Dichloropropane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,3,5-Trimethylbenzene	ND	120	100		µg/Kg-dry	1	10/6/2022
1,3-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,4-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
2-Butanone	ND	750	750		µg/Kg-dry	1	10/6/2022
2-Hexanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
4-Methyl-2-pentanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
Acetone	ND	1,000	1,000		µg/Kg-dry	1	10/6/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-13

Client Sample ID: DB-9 (2-4')
Collection Date: 9/28/2022 12:20:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Acrylonitrile	ND	120	100		µg/Kg-dry	1	10/6/2022
Benzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Bromodichloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromoform	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromomethane	ND	200	200		µg/Kg-dry	1	10/6/2022
Carbon disulfide	ND	250	250		µg/Kg-dry	1	10/6/2022
Carbon tetrachloride	ND	50	50		µg/Kg-dry	1	10/6/2022
Chlorobenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloroethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Chloroform	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
cis-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
cis-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Dibromochloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Dibromomethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Dichlorodifluoromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Diethyl ether	ND	200	200		µg/Kg-dry	1	10/6/2022
Ethylbenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/6/2022
Isopropylbenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
m,p-Xylene	ND	100	100		µg/Kg-dry	1	10/6/2022
Methyl tert-butyl ether	ND	250	250		µg/Kg-dry	1	10/6/2022
Methylene chloride	ND	290	100		µg/Kg-dry	1	10/6/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
n-Propylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
o-Xylene	ND	50	50		µg/Kg-dry	1	10/6/2022
Styrene	ND	50	50		µg/Kg-dry	1	10/6/2022
Tetrachloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Toluene	ND	100	100		µg/Kg-dry	1	10/6/2022
trans-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
trans-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichlorofluoromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Vinyl acetate	ND	5,000	5,000		µg/Kg-dry	1	10/6/2022
Vinyl chloride	ND	40	40		µg/Kg-dry	1	10/6/2022
Xylenes, Total	ND	150	150		µg/Kg-dry	1	10/6/2022
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>103</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>95.6</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>
<i>Surr: Dibromofluoromethane</i>	<i>94.1</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>
<i>Surr: Toluene-d8</i>	<i>101</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-13

Client Sample ID: DB-9 (2-4')
Collection Date: 9/28/2022 12:20:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MOISTURE			SW3550C				Analyst: ALG
Moisture	10	0.10	0		% of sample	1	10/3/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-14

Client Sample ID: DB-10 (2-4')
Collection Date: 9/28/2022 12:25:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS			SW8082A		Prep Date: 10/6/2022		Analyst: RM
Aroclor 1016	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1221	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1232	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1242	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1248	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1254	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1260	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1262	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1268	ND	330	330		µg/Kg-dry	1	10/6/2022
Surr: Decachlorobiphenyl	33.5	68-137		S	%REC	1	10/6/2022
Surr: Tetrachloro-m-xylene	27.6	71-123		S	%REC	1	10/6/2022
MERCURY BY CVAA			SW7471B		Prep Date: 9/30/2022		Analyst: KRA
Mercury	91	50	50		µg/Kg-dry	1	10/3/2022
METALS BY ICP-MS			SW6020B		Prep Date: 10/3/2022		Analyst: STP
Arsenic	12,000	2,000	2,000		µg/Kg-dry	1	10/3/2022
Barium	120,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Cadmium	380	200	200		µg/Kg-dry	1	10/3/2022
Chromium	12,000	2,000	2,000		µg/Kg-dry	1	10/3/2022
Copper	14,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Lead	200,000	10,000	10,000		µg/Kg-dry	10	10/4/2022
Selenium	680	420	200		µg/Kg-dry	1	10/4/2022
Silver	ND	420	100		µg/Kg-dry	1	10/3/2022
Zinc	68,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep Date: 10/4/2022		Analyst: EE
1,2,4-Trichlorobenzene	ND	370	330		µg/Kg-dry	10	10/5/2022
1,2-Dichlorobenzene	ND	370	330		µg/Kg-dry	10	10/5/2022
1,3-Dichlorobenzene	ND	370	330		µg/Kg-dry	10	10/5/2022
1,4-Dichlorobenzene	ND	370	330		µg/Kg-dry	10	10/5/2022
2,4,5-Trichlorophenol	ND	370	300		µg/Kg-dry	10	10/5/2022
2,4,6-Trichlorophenol	ND	370	330		µg/Kg-dry	10	10/5/2022
2,4-Dichlorophenol	ND	370	330		µg/Kg-dry	10	10/5/2022
2,4-Dimethylphenol	ND	370	330		µg/Kg-dry	10	10/5/2022
2,4-Dinitrophenol	ND	7,500	830		µg/Kg-dry	10	10/5/2022
2,4-Dinitrotoluene	ND	370	330		µg/Kg-dry	10	10/5/2022
2,6-Dinitrotoluene	ND	370	330		µg/Kg-dry	10	10/5/2022
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	10	10/5/2022
2-Chlorophenol	ND	370	330		µg/Kg-dry	10	10/5/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development
 Lab ID: 22092946-14

Client Sample ID: DB-10 (2-4')
 Collection Date: 9/28/2022 12:25:00 PM
 Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	10	10/5/2022
2-Methylphenol	ND	370	330		µg/Kg-dry	10	10/5/2022
2-Nitroaniline	ND	830	830		µg/Kg-dry	10	10/5/2022
2-Nitrophenol	ND	370	330		µg/Kg-dry	10	10/5/2022
3&4-Methylphenol	ND	370	330		µg/Kg-dry	10	10/5/2022
3,3'-Dichlorobenzidine	ND	2,000	2,000		µg/Kg-dry	10	10/5/2022
3-Nitroaniline	ND	830	830		µg/Kg-dry	10	10/5/2022
4,6-Dinitro-2-methylphenol	ND	830	830		µg/Kg-dry	10	10/5/2022
4-Bromophenyl phenyl ether	ND	370	330		µg/Kg-dry	10	10/5/2022
4-Chloro-3-methylphenol	ND	370	280		µg/Kg-dry	10	10/5/2022
4-Chloroaniline	ND	760	330		µg/Kg-dry	10	10/5/2022
4-Chlorophenyl phenyl ether	ND	370	330		µg/Kg-dry	10	10/5/2022
4-Nitroaniline	ND	1,900	830		µg/Kg-dry	10	10/5/2022
4-Nitrophenol	ND	1,900	830		µg/Kg-dry	10	10/5/2022
Acenaphthene	ND	330	330		µg/Kg-dry	10	10/5/2022
Acenaphthylene	1,300	330	330		µg/Kg-dry	10	10/5/2022
Anthracene	1,800	330	330		µg/Kg-dry	10	10/5/2022
Benzo(a)anthracene	7,300	330	330		µg/Kg-dry	10	10/5/2022
Benzo(a)pyrene	7,700	330	330		µg/Kg-dry	10	10/5/2022
Benzo(b)fluoranthene	7,500	330	330		µg/Kg-dry	10	10/5/2022
Benzo(g,h,i)perylene	3,900	330	330		µg/Kg-dry	10	10/5/2022
Benzo(k)fluoranthene	2,700	330	330		µg/Kg-dry	10	10/5/2022
Bis(2-chloroethoxy)methane	ND	370	330		µg/Kg-dry	10	10/5/2022
Bis(2-chloroethyl)ether	ND	370	100		µg/Kg-dry	10	10/5/2022
Bis(2-chloroisopropyl)ether	ND	370	330		µg/Kg-dry	10	10/5/2022
Bis(2-ethylhexyl)phthalate	ND	370	330		µg/Kg-dry	10	10/5/2022
Butyl benzyl phthalate	ND	760	330		µg/Kg-dry	10	10/5/2022
Carbazole	ND	370	330		µg/Kg-dry	10	10/5/2022
Chrysene	5,800	330	330		µg/Kg-dry	10	10/5/2022
Dibenzo(a,h)anthracene	820	330	330		µg/Kg-dry	10	10/5/2022
Dibenzofuran	ND	370	330		µg/Kg-dry	10	10/5/2022
Diethyl phthalate	ND	370	330		µg/Kg-dry	10	10/5/2022
Dimethyl phthalate	ND	370	330		µg/Kg-dry	10	10/5/2022
Di-n-butyl phthalate	ND	370	330		µg/Kg-dry	10	10/5/2022
Di-n-octyl phthalate	ND	370	330		µg/Kg-dry	10	10/5/2022
Fluoranthene	12,000	330	330		µg/Kg-dry	10	10/5/2022
Fluorene	380	330	330		µg/Kg-dry	10	10/5/2022
Hexachlorobenzene	ND	370	330		µg/Kg-dry	10	10/5/2022
Hexachlorobutadiene	ND	370	50		µg/Kg-dry	10	10/5/2022
Hexachlorocyclopentadiene	ND	370	330		µg/Kg-dry	10	10/5/2022
Hexachloroethane	ND	370	300		µg/Kg-dry	10	10/5/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-14

Client Sample ID: DB-10 (2-4')
Collection Date: 9/28/2022 12:25:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	4,200	330	330		µg/Kg-dry	10	10/5/2022
Isophorone	ND	1,900	330		µg/Kg-dry	10	10/5/2022
Naphthalene	440	330	330		µg/Kg-dry	10	10/5/2022
Nitrobenzene	ND	1,900	330		µg/Kg-dry	10	10/5/2022
N-Nitrosodi-n-propylamine	ND	370	330		µg/Kg-dry	10	10/5/2022
N-Nitrosodiphenylamine	ND	370	330		µg/Kg-dry	10	10/5/2022
Pentachlorophenol	ND	370	20		µg/Kg-dry	10	10/5/2022
Phenanthrene	3,500	330	330		µg/Kg-dry	10	10/5/2022
Phenol	ND	370	330		µg/Kg-dry	10	10/5/2022
Pyrene	12,000	330	330		µg/Kg-dry	10	10/5/2022
Surr: 2,4,6-Tribromophenol	60.0	48-94			%REC	10	10/5/2022
Surr: 2-Fluorobiphenyl	69.0	50-103			%REC	10	10/5/2022
Surr: 2-Fluorophenol	58.6	43-105			%REC	10	10/5/2022
Surr: 4-Terphenyl-d14	67.0	55-111			%REC	10	10/5/2022
Surr: Nitrobenzene-d5	63.2	47-100			%REC	10	10/5/2022
Surr: Phenol-d6	62.2	49-110			%REC	10	10/5/2022

VOLATILE ORGANIC COMPOUNDS

SW8260C

Prep Date: 10/3/2022

Analyst: **BG**

1,1,1,2-Tetrachloroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1,1-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2,2-Tetrachloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichlorotrifluoroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
1,2,3-Trichloropropane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2,4-Trichlorobenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
1,2,4-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dibromo-3-chloropropane	ND	150	10		µg/Kg-dry	1	10/6/2022
1,2-Dibromoethane	ND	46	20		µg/Kg-dry	1	10/6/2022
1,2-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dichloroethane	ND	150	50		µg/Kg-dry	1	10/6/2022
1,2-Dichloropropane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,3,5-Trimethylbenzene	ND	150	100		µg/Kg-dry	1	10/6/2022
1,3-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,4-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
2-Butanone	ND	750	750		µg/Kg-dry	1	10/6/2022
2-Hexanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
4-Methyl-2-pentanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
Acetone	ND	1,000	1,000		µg/Kg-dry	1	10/6/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-14

Client Sample ID: DB-10 (2-4')
Collection Date: 9/28/2022 12:25:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Acrylonitrile	ND	150	100		µg/Kg-dry	1	10/6/2022
Benzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Bromodichloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromoform	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromomethane	ND	200	200		µg/Kg-dry	1	10/6/2022
Carbon disulfide	ND	250	250		µg/Kg-dry	1	10/6/2022
Carbon tetrachloride	ND	50	50		µg/Kg-dry	1	10/6/2022
Chlorobenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloroethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Chloroform	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
cis-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
cis-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Dibromochloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Dibromomethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Dichlorodifluoromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Diethyl ether	ND	200	200		µg/Kg-dry	1	10/6/2022
Ethylbenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/6/2022
Isopropylbenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
m,p-Xylene	ND	100	100		µg/Kg-dry	1	10/6/2022
Methyl tert-butyl ether	ND	250	250		µg/Kg-dry	1	10/6/2022
Methylene chloride	ND	380	100		µg/Kg-dry	1	10/6/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
n-Propylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
o-Xylene	ND	50	50		µg/Kg-dry	1	10/6/2022
Styrene	ND	50	50		µg/Kg-dry	1	10/6/2022
Tetrachloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Toluene	ND	100	100		µg/Kg-dry	1	10/6/2022
trans-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
trans-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichlorofluoromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Vinyl acetate	ND	5,000	5,000		µg/Kg-dry	1	10/6/2022
Vinyl chloride	ND	46	40		µg/Kg-dry	1	10/6/2022
Xylenes, Total	ND	150	150		µg/Kg-dry	1	10/6/2022
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>103</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.5</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>
<i>Surr: Dibromofluoromethane</i>	<i>95.8</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>
<i>Surr: Toluene-d8</i>	<i>102</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-14

Client Sample ID: DB-10 (2-4')
Collection Date: 9/28/2022 12:25:00 PM

Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MOISTURE			SW3550C				Analyst: ALG
Moisture	14	0.10	0		% of sample	1	10/3/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development
 Lab ID: 22092946-15

Client Sample ID: DB-11 (3-5')
 Collection Date: 9/28/2022 12:45:00 PM
 Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS			SW8082A		Prep Date: 10/3/2022		Analyst: RM
Aroclor 1016	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1221	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1232	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1242	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1248	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1254	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1260	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1262	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1268	ND	330	330		µg/Kg-dry	1	10/4/2022
Surr: Decachlorobiphenyl	90.5	68-137			%REC	1	10/4/2022
Surr: Tetrachloro-m-xylene	83.4	71-123			%REC	1	10/4/2022
MERCURY BY CVAA			SW7471B		Prep Date: 9/30/2022		Analyst: KRA
Mercury	ND	50	50		µg/Kg-dry	1	10/3/2022
METALS BY ICP-MS			SW6020B		Prep Date: 10/3/2022		Analyst: STP
Arsenic	7,500	2,000	2,000		µg/Kg-dry	1	10/3/2022
Barium	70,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Cadmium	ND	200	200		µg/Kg-dry	1	10/3/2022
Chromium	14,000	2,000	2,000		µg/Kg-dry	1	10/3/2022
Copper	17,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Lead	23,000	10,000	10,000		µg/Kg-dry	1	10/3/2022
Selenium	ND	420	200		µg/Kg-dry	1	10/4/2022
Silver	ND	420	100		µg/Kg-dry	1	10/3/2022
Zinc	45,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep Date: 10/4/2022		Analyst: EE
1,2,4-Trichlorobenzene	ND	720	330		µg/Kg-dry	20	10/5/2022
1,2-Dichlorobenzene	ND	720	330		µg/Kg-dry	20	10/5/2022
1,3-Dichlorobenzene	ND	720	330		µg/Kg-dry	20	10/5/2022
1,4-Dichlorobenzene	ND	720	330		µg/Kg-dry	20	10/5/2022
2,4,5-Trichlorophenol	ND	720	300		µg/Kg-dry	20	10/5/2022
2,4,6-Trichlorophenol	ND	720	330		µg/Kg-dry	20	10/5/2022
2,4-Dichlorophenol	ND	720	330		µg/Kg-dry	20	10/5/2022
2,4-Dimethylphenol	ND	720	330		µg/Kg-dry	20	10/5/2022
2,4-Dinitrophenol	ND	14,000	830		µg/Kg-dry	20	10/5/2022
2,4-Dinitrotoluene	ND	720	330		µg/Kg-dry	20	10/5/2022
2,6-Dinitrotoluene	ND	720	330		µg/Kg-dry	20	10/5/2022
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	20	10/5/2022
2-Chlorophenol	ND	720	330		µg/Kg-dry	20	10/5/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-15

Client Sample ID: DB-11 (3-5')
Collection Date: 9/28/2022 12:45:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	20	10/5/2022
2-Methylphenol	ND	720	330		µg/Kg-dry	20	10/5/2022
2-Nitroaniline	ND	830	830		µg/Kg-dry	20	10/5/2022
2-Nitrophenol	ND	720	330		µg/Kg-dry	20	10/5/2022
3&4-Methylphenol	ND	720	330		µg/Kg-dry	20	10/5/2022
3,3'-Dichlorobenzidine	ND	3,600	2,000		µg/Kg-dry	20	10/5/2022
3-Nitroaniline	ND	830	830		µg/Kg-dry	20	10/5/2022
4,6-Dinitro-2-methylphenol	ND	830	830		µg/Kg-dry	20	10/5/2022
4-Bromophenyl phenyl ether	ND	720	330		µg/Kg-dry	20	10/5/2022
4-Chloro-3-methylphenol	ND	720	280		µg/Kg-dry	20	10/5/2022
4-Chloroaniline	ND	1,500	330		µg/Kg-dry	20	10/5/2022
4-Chlorophenyl phenyl ether	ND	720	330		µg/Kg-dry	20	10/5/2022
4-Nitroaniline	ND	3,600	830		µg/Kg-dry	20	10/5/2022
4-Nitrophenol	ND	3,600	830		µg/Kg-dry	20	10/5/2022
Acenaphthene	ND	330	330		µg/Kg-dry	20	10/5/2022
Acenaphthylene	950	330	330		µg/Kg-dry	20	10/5/2022
Anthracene	910	330	330		µg/Kg-dry	20	10/5/2022
Benzo(a)anthracene	3,800	330	330		µg/Kg-dry	20	10/5/2022
Benzo(a)pyrene	3,900	330	330		µg/Kg-dry	20	10/5/2022
Benzo(b)fluoranthene	4,300	330	330		µg/Kg-dry	20	10/5/2022
Benzo(g,h,i)perylene	2,100	330	330		µg/Kg-dry	20	10/5/2022
Benzo(k)fluoranthene	1,600	330	330		µg/Kg-dry	20	10/5/2022
Bis(2-chloroethoxy)methane	ND	720	330		µg/Kg-dry	20	10/5/2022
Bis(2-chloroethyl)ether	ND	720	100		µg/Kg-dry	20	10/5/2022
Bis(2-chloroisopropyl)ether	ND	720	330		µg/Kg-dry	20	10/5/2022
Bis(2-ethylhexyl)phthalate	ND	720	330		µg/Kg-dry	20	10/5/2022
Butyl benzyl phthalate	ND	1,500	330		µg/Kg-dry	20	10/5/2022
Carbazole	ND	720	330		µg/Kg-dry	20	10/5/2022
Chrysene	3,200	330	330		µg/Kg-dry	20	10/5/2022
Dibenzo(a,h)anthracene	510	330	330		µg/Kg-dry	20	10/5/2022
Dibenzofuran	ND	720	330		µg/Kg-dry	20	10/5/2022
Diethyl phthalate	ND	720	330		µg/Kg-dry	20	10/5/2022
Dimethyl phthalate	ND	720	330		µg/Kg-dry	20	10/5/2022
Di-n-butyl phthalate	ND	720	330		µg/Kg-dry	20	10/5/2022
Di-n-octyl phthalate	ND	720	330		µg/Kg-dry	20	10/5/2022
Fluoranthene	5,700	330	330		µg/Kg-dry	20	10/5/2022
Fluorene	ND	330	330		µg/Kg-dry	20	10/5/2022
Hexachlorobenzene	ND	720	330		µg/Kg-dry	20	10/5/2022
Hexachlorobutadiene	ND	720	50		µg/Kg-dry	20	10/5/2022
Hexachlorocyclopentadiene	ND	720	330		µg/Kg-dry	20	10/5/2022
Hexachloroethane	ND	720	300		µg/Kg-dry	20	10/5/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-15

Client Sample ID: DB-11 (3-5')
Collection Date: 9/28/2022 12:45:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	2,300	330	330		µg/Kg-dry	20	10/5/2022
Isophorone	ND	3,600	330		µg/Kg-dry	20	10/5/2022
Naphthalene	ND	330	330		µg/Kg-dry	20	10/5/2022
Nitrobenzene	ND	3,600	330		µg/Kg-dry	20	10/5/2022
N-Nitrosodi-n-propylamine	ND	720	330		µg/Kg-dry	20	10/5/2022
N-Nitrosodiphenylamine	ND	720	330		µg/Kg-dry	20	10/5/2022
Pentachlorophenol	ND	720	20		µg/Kg-dry	20	10/5/2022
Phenanthrene	2,400	330	330		µg/Kg-dry	20	10/5/2022
Phenol	ND	720	330		µg/Kg-dry	20	10/5/2022
Pyrene	5,400	330	330		µg/Kg-dry	20	10/5/2022
Surr: 2,4,6-Tribromophenol	64.8	48-94			%REC	20	10/5/2022
Surr: 2-Fluorobiphenyl	77.2	50-103			%REC	20	10/5/2022
Surr: 2-Fluorophenol	67.6	43-105			%REC	20	10/5/2022
Surr: 4-Terphenyl-d14	71.2	55-111			%REC	20	10/5/2022
Surr: Nitrobenzene-d5	68.8	47-100			%REC	20	10/5/2022
Surr: Phenol-d6	72.0	49-110			%REC	20	10/5/2022

VOLATILE ORGANIC COMPOUNDS

SW8260C

Prep Date: 10/3/2022

Analyst: **BG**

1,1,1,2-Tetrachloroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1,1-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2,2-Tetrachloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichlorotrifluoroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
1,2,3-Trichloropropane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2,4-Trichlorobenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
1,2,4-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dibromo-3-chloropropane	ND	120	10		µg/Kg-dry	1	10/6/2022
1,2-Dibromoethane	ND	35	20		µg/Kg-dry	1	10/6/2022
1,2-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dichloroethane	ND	120	50		µg/Kg-dry	1	10/6/2022
1,2-Dichloropropane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,3,5-Trimethylbenzene	ND	120	100		µg/Kg-dry	1	10/6/2022
1,3-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,4-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
2-Butanone	ND	750	750		µg/Kg-dry	1	10/6/2022
2-Hexanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
4-Methyl-2-pentanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
Acetone	ND	1,000	1,000		µg/Kg-dry	1	10/6/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-15

Client Sample ID: DB-11 (3-5')
Collection Date: 9/28/2022 12:45:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Acrylonitrile	ND	120	100		µg/Kg-dry	1	10/6/2022
Benzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Bromodichloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromoform	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromomethane	ND	200	200		µg/Kg-dry	1	10/6/2022
Carbon disulfide	ND	250	250		µg/Kg-dry	1	10/6/2022
Carbon tetrachloride	ND	50	50		µg/Kg-dry	1	10/6/2022
Chlorobenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloroethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Chloroform	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
cis-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
cis-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Dibromochloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Dibromomethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Dichlorodifluoromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Diethyl ether	ND	200	200		µg/Kg-dry	1	10/6/2022
Ethylbenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/6/2022
Isopropylbenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
m,p-Xylene	ND	100	100		µg/Kg-dry	1	10/6/2022
Methyl tert-butyl ether	ND	250	250		µg/Kg-dry	1	10/6/2022
Methylene chloride	ND	300	100		µg/Kg-dry	1	10/6/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
n-Propylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
o-Xylene	ND	50	50		µg/Kg-dry	1	10/6/2022
Styrene	ND	50	50		µg/Kg-dry	1	10/6/2022
Tetrachloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Toluene	ND	100	100		µg/Kg-dry	1	10/6/2022
trans-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
trans-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichlorofluoromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Vinyl acetate	ND	5,000	5,000		µg/Kg-dry	1	10/6/2022
Vinyl chloride	ND	40	40		µg/Kg-dry	1	10/6/2022
Xylenes, Total	ND	150	150		µg/Kg-dry	1	10/6/2022
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>108</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.0</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>
<i>Surr: Dibromofluoromethane</i>	<i>99.8</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>
<i>Surr: Toluene-d8</i>	<i>101</i>	<i>80-120</i>			<i>%REC</i>	<i>1</i>	<i>10/6/2022</i>

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-15

Client Sample ID: DB-11 (3-5')
Collection Date: 9/28/2022 12:45:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MOISTURE			SW3550C				Analyst: ALG
Moisture	10	0.10	0		% of sample	1	10/3/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-16

Client Sample ID: DB-12 (3-5')
Collection Date: 9/28/2022 1:10:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS			SW8082A		Prep Date: 10/3/2022		Analyst: RM
Aroclor 1016	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1221	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1232	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1242	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1248	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1254	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1260	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1262	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1268	ND	330	330		µg/Kg-dry	1	10/4/2022
Surr: Decachlorobiphenyl	121	68-137			%REC	1	10/4/2022
Surr: Tetrachloro-m-xylene	79.2	71-123			%REC	1	10/4/2022
MERCURY BY CVAA			SW7471B		Prep Date: 9/30/2022		Analyst: KRA
Mercury	ND	50	50		µg/Kg-dry	1	10/3/2022
METALS BY ICP-MS			SW6020B		Prep Date: 10/3/2022		Analyst: STP
Arsenic	2,000	2,000	2,000		µg/Kg-dry	1	10/3/2022
Barium	21,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Cadmium	280	200	200		µg/Kg-dry	1	10/3/2022
Chromium	4,600	2,000	2,000		µg/Kg-dry	1	10/3/2022
Copper	15,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Lead	95,000	10,000	10,000		µg/Kg-dry	1	10/3/2022
Selenium	ND	360	200		µg/Kg-dry	1	10/3/2022
Silver	ND	360	100		µg/Kg-dry	1	10/3/2022
Zinc	38,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep Date: 10/4/2022		Analyst: EE
1,2,4-Trichlorobenzene	ND	690	330		µg/Kg-dry	20	10/5/2022
1,2-Dichlorobenzene	ND	690	330		µg/Kg-dry	20	10/5/2022
1,3-Dichlorobenzene	ND	690	330		µg/Kg-dry	20	10/5/2022
1,4-Dichlorobenzene	ND	690	330		µg/Kg-dry	20	10/5/2022
2,4,5-Trichlorophenol	ND	690	300		µg/Kg-dry	20	10/5/2022
2,4,6-Trichlorophenol	ND	690	330		µg/Kg-dry	20	10/5/2022
2,4-Dichlorophenol	ND	690	330		µg/Kg-dry	20	10/5/2022
2,4-Dimethylphenol	ND	690	330		µg/Kg-dry	20	10/5/2022
2,4-Dinitrophenol	ND	14,000	830		µg/Kg-dry	20	10/5/2022
2,4-Dinitrotoluene	ND	690	330		µg/Kg-dry	20	10/5/2022
2,6-Dinitrotoluene	ND	690	330		µg/Kg-dry	20	10/5/2022
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	20	10/5/2022
2-Chlorophenol	ND	690	330		µg/Kg-dry	20	10/5/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-16

Client Sample ID: DB-12 (3-5')
Collection Date: 9/28/2022 1:10:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
2-Methylnaphthalene	890	330	330		µg/Kg-dry	20	10/5/2022
2-Methylphenol	ND	690	330		µg/Kg-dry	20	10/5/2022
2-Nitroaniline	ND	830	830		µg/Kg-dry	20	10/5/2022
2-Nitrophenol	ND	690	330		µg/Kg-dry	20	10/5/2022
3&4-Methylphenol	ND	690	330		µg/Kg-dry	20	10/5/2022
3,3'-Dichlorobenzidine	ND	3,500	2,000		µg/Kg-dry	20	10/5/2022
3-Nitroaniline	ND	830	830		µg/Kg-dry	20	10/5/2022
4,6-Dinitro-2-methylphenol	ND	830	830		µg/Kg-dry	20	10/5/2022
4-Bromophenyl phenyl ether	ND	690	330		µg/Kg-dry	20	10/5/2022
4-Chloro-3-methylphenol	ND	690	280		µg/Kg-dry	20	10/5/2022
4-Chloroaniline	ND	1,400	330		µg/Kg-dry	20	10/5/2022
4-Chlorophenyl phenyl ether	ND	690	330		µg/Kg-dry	20	10/5/2022
4-Nitroaniline	ND	3,500	830		µg/Kg-dry	20	10/5/2022
4-Nitrophenol	ND	3,500	830		µg/Kg-dry	20	10/5/2022
Acenaphthene	330	330	330		µg/Kg-dry	20	10/5/2022
Acenaphthylene	6,400	330	330		µg/Kg-dry	20	10/5/2022
Anthracene	8,000	330	330		µg/Kg-dry	20	10/5/2022
Benzo(a)anthracene	27,000	330	330		µg/Kg-dry	20	10/5/2022
Benzo(a)pyrene	31,000	330	330		µg/Kg-dry	20	10/5/2022
Benzo(b)fluoranthene	33,000	330	330		µg/Kg-dry	20	10/5/2022
Benzo(g,h,i)perylene	18,000	330	330		µg/Kg-dry	20	10/5/2022
Benzo(k)fluoranthene	11,000	330	330		µg/Kg-dry	20	10/5/2022
Bis(2-chloroethoxy)methane	ND	690	330		µg/Kg-dry	20	10/5/2022
Bis(2-chloroethyl)ether	ND	690	100		µg/Kg-dry	20	10/5/2022
Bis(2-chloroisopropyl)ether	ND	690	330		µg/Kg-dry	20	10/5/2022
Bis(2-ethylhexyl)phthalate	750	690	330		µg/Kg-dry	20	10/5/2022
Butyl benzyl phthalate	ND	1,400	330		µg/Kg-dry	20	10/5/2022
Carbazole	1,800	690	330		µg/Kg-dry	20	10/5/2022
Chrysene	25,000	330	330		µg/Kg-dry	20	10/5/2022
Dibenzo(a,h)anthracene	3,400	330	330		µg/Kg-dry	20	10/5/2022
Dibenzofuran	1,700	690	330		µg/Kg-dry	20	10/5/2022
Diethyl phthalate	ND	690	330		µg/Kg-dry	20	10/5/2022
Dimethyl phthalate	ND	690	330		µg/Kg-dry	20	10/5/2022
Di-n-butyl phthalate	ND	690	330		µg/Kg-dry	20	10/5/2022
Di-n-octyl phthalate	ND	690	330		µg/Kg-dry	20	10/5/2022
Fluoranthene	48,000	330	330		µg/Kg-dry	20	10/5/2022
Fluorene	3,100	330	330		µg/Kg-dry	20	10/5/2022
Hexachlorobenzene	ND	690	330		µg/Kg-dry	20	10/5/2022
Hexachlorobutadiene	ND	690	50		µg/Kg-dry	20	10/5/2022
Hexachlorocyclopentadiene	ND	690	330		µg/Kg-dry	20	10/5/2022
Hexachloroethane	ND	690	300		µg/Kg-dry	20	10/5/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-16

Client Sample ID: DB-12 (3-5')
Collection Date: 9/28/2022 1:10:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	20,000	330	330		µg/Kg-dry	20	10/5/2022
Isophorone	ND	3,500	330		µg/Kg-dry	20	10/5/2022
Naphthalene	2,400	330	330		µg/Kg-dry	20	10/5/2022
Nitrobenzene	ND	3,500	330		µg/Kg-dry	20	10/5/2022
N-Nitrosodi-n-propylamine	ND	690	330		µg/Kg-dry	20	10/5/2022
N-Nitrosodiphenylamine	ND	690	330		µg/Kg-dry	20	10/5/2022
Pentachlorophenol	ND	690	20		µg/Kg-dry	20	10/5/2022
Phenanthrene	31,000	330	330		µg/Kg-dry	20	10/5/2022
Phenol	ND	690	330		µg/Kg-dry	20	10/5/2022
Pyrene	51,000	330	330		µg/Kg-dry	20	10/5/2022
Surr: 2,4,6-Tribromophenol	70.4	48-94			%REC	20	10/5/2022
Surr: 2-Fluorobiphenyl	79.2	50-103			%REC	20	10/5/2022
Surr: 2-Fluorophenol	70.4	43-105			%REC	20	10/5/2022
Surr: 4-Terphenyl-d14	78.8	55-111			%REC	20	10/5/2022
Surr: Nitrobenzene-d5	72.4	47-100			%REC	20	10/5/2022
Surr: Phenol-d6	77.2	49-110			%REC	20	10/5/2022

VOLATILE ORGANIC COMPOUNDS

SW8260C

Prep Date: 10/3/2022

Analyst: HJ

1,1,1,2-Tetrachloroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1,1-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2,2-Tetrachloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichlorotrifluoroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
1,2,3-Trichloropropane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2,4-Trichlorobenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
1,2,4-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dibromo-3-chloropropane	ND	100	10		µg/Kg-dry	1	10/6/2022
1,2-Dibromoethane	ND	31	20		µg/Kg-dry	1	10/6/2022
1,2-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dichloroethane	ND	100	50		µg/Kg-dry	1	10/6/2022
1,2-Dichloropropane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,3,5-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,3-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,4-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
2-Butanone	ND	750	750		µg/Kg-dry	1	10/6/2022
2-Hexanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
4-Methyl-2-pentanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
Acetone	ND	1,000	1,000		µg/Kg-dry	1	10/6/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-16

Client Sample ID: DB-12 (3-5')
Collection Date: 9/28/2022 1:10:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Acrylonitrile	ND	100	100		µg/Kg-dry	1	10/6/2022
Benzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Bromodichloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromoform	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromomethane	ND	200	200		µg/Kg-dry	1	10/6/2022
Carbon disulfide	ND	250	250		µg/Kg-dry	1	10/6/2022
Carbon tetrachloride	ND	50	50		µg/Kg-dry	1	10/6/2022
Chlorobenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloroethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Chloroform	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
cis-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
cis-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Dibromochloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Dibromomethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Dichlorodifluoromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Diethyl ether	ND	200	200		µg/Kg-dry	1	10/6/2022
Ethylbenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/6/2022
Isopropylbenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
m,p-Xylene	ND	100	100		µg/Kg-dry	1	10/6/2022
Methyl tert-butyl ether	ND	250	250		µg/Kg-dry	1	10/6/2022
Methylene chloride	ND	260	100		µg/Kg-dry	1	10/6/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
n-Propylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
o-Xylene	ND	50	50		µg/Kg-dry	1	10/6/2022
Styrene	ND	50	50		µg/Kg-dry	1	10/6/2022
Tetrachloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Toluene	ND	100	100		µg/Kg-dry	1	10/6/2022
trans-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
trans-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichlorofluoromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Vinyl acetate	ND	5,000	5,000		µg/Kg-dry	1	10/6/2022
Vinyl chloride	ND	40	40		µg/Kg-dry	1	10/6/2022
Xylenes, Total	ND	150	150		µg/Kg-dry	1	10/6/2022
<i>Surr: 1,2-Dichloroethane-d4</i>	99.2	80-120			%REC	1	10/6/2022
<i>Surr: 4-Bromofluorobenzene</i>	98.5	80-120			%REC	1	10/6/2022
<i>Surr: Dibromofluoromethane</i>	80.7	80-120			%REC	1	10/6/2022
<i>Surr: Toluene-d8</i>	98.2	80-120			%REC	1	10/6/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-16

Client Sample ID: DB-12 (3-5')
Collection Date: 9/28/2022 1:10:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MOISTURE			SW3550C				Analyst: ALG
Moisture	7.5	0.10	0		% of sample	1	10/3/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-17

Client Sample ID: DB-13 (1-3')
Collection Date: 9/28/2022 1:25:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS			SW8082A		Prep Date: 10/3/2022		Analyst: RM
Aroclor 1016	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1221	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1232	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1242	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1248	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1254	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1260	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1262	ND	330	330		µg/Kg-dry	1	10/4/2022
Aroclor 1268	ND	330	330		µg/Kg-dry	1	10/4/2022
Surr: Decachlorobiphenyl	99.0	68-137			%REC	1	10/4/2022
Surr: Tetrachloro-m-xylene	81.9	71-123			%REC	1	10/4/2022
MERCURY BY CVAA			SW7471B		Prep Date: 10/3/2022		Analyst: KRA
Mercury	ND	50	50		µg/Kg-dry	1	10/4/2022
METALS BY ICP-MS			SW6020B		Prep Date: 10/3/2022		Analyst: STP
Arsenic	4,200	2,000	2,000		µg/Kg-dry	1	10/3/2022
Barium	38,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Cadmium	ND	200	200		µg/Kg-dry	1	10/3/2022
Chromium	15,000	2,000	2,000		µg/Kg-dry	1	10/3/2022
Copper	15,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Lead	10,000	10,000	10,000		µg/Kg-dry	1	10/3/2022
Selenium	470	450	200		µg/Kg-dry	1	10/3/2022
Silver	ND	450	100		µg/Kg-dry	1	10/3/2022
Zinc	37,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep Date: 10/4/2022		Analyst: EE
1,2,4-Trichlorobenzene	ND	330	330		µg/Kg-dry	1	10/5/2022
1,2-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/5/2022
1,3-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/5/2022
1,4-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/5/2022
2,4,5-Trichlorophenol	ND	300	300		µg/Kg-dry	1	10/5/2022
2,4,6-Trichlorophenol	ND	330	330		µg/Kg-dry	1	10/5/2022
2,4-Dichlorophenol	ND	330	330		µg/Kg-dry	1	10/5/2022
2,4-Dimethylphenol	ND	330	330		µg/Kg-dry	1	10/5/2022
2,4-Dinitrophenol	ND	830	830		µg/Kg-dry	1	10/5/2022
2,4-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	10/5/2022
2,6-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	10/5/2022
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	1	10/5/2022
2-Chlorophenol	ND	330	330		µg/Kg-dry	1	10/5/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development
 Lab ID: 22092946-17

Client Sample ID: DB-13 (1-3')
 Collection Date: 9/28/2022 1:25:00 PM
 Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/5/2022
2-Methylphenol	ND	330	330		µg/Kg-dry	1	10/5/2022
2-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/5/2022
2-Nitrophenol	ND	330	330		µg/Kg-dry	1	10/5/2022
3&4-Methylphenol	ND	330	330		µg/Kg-dry	1	10/5/2022
3,3'-Dichlorobenzidine	ND	2,000	2,000		µg/Kg-dry	1	10/5/2022
3-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/5/2022
4,6-Dinitro-2-methylphenol	ND	830	830		µg/Kg-dry	1	10/5/2022
4-Bromophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	10/5/2022
4-Chloro-3-methylphenol	ND	280	280		µg/Kg-dry	1	10/5/2022
4-Chloroaniline	ND	330	330		µg/Kg-dry	1	10/5/2022
4-Chlorophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	10/5/2022
4-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/5/2022
4-Nitrophenol	ND	830	830		µg/Kg-dry	1	10/5/2022
Acenaphthene	ND	330	330		µg/Kg-dry	1	10/5/2022
Acenaphthylene	ND	330	330		µg/Kg-dry	1	10/5/2022
Anthracene	ND	330	330		µg/Kg-dry	1	10/5/2022
Benzo(a)anthracene	370	330	330		µg/Kg-dry	1	10/5/2022
Benzo(a)pyrene	420	330	330		µg/Kg-dry	1	10/5/2022
Benzo(b)fluoranthene	510	330	330		µg/Kg-dry	1	10/5/2022
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	10/5/2022
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	10/5/2022
Bis(2-chloroethoxy)methane	ND	330	330		µg/Kg-dry	1	10/5/2022
Bis(2-chloroethyl)ether	ND	100	100		µg/Kg-dry	1	10/5/2022
Bis(2-chloroisopropyl)ether	ND	330	330		µg/Kg-dry	1	10/5/2022
Bis(2-ethylhexyl)phthalate	ND	330	330		µg/Kg-dry	1	10/5/2022
Butyl benzyl phthalate	ND	330	330		µg/Kg-dry	1	10/5/2022
Carbazole	ND	330	330		µg/Kg-dry	1	10/5/2022
Chrysene	360	330	330		µg/Kg-dry	1	10/5/2022
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	10/5/2022
Dibenzofuran	ND	330	330		µg/Kg-dry	1	10/5/2022
Diethyl phthalate	ND	330	330		µg/Kg-dry	1	10/5/2022
Dimethyl phthalate	ND	330	330		µg/Kg-dry	1	10/5/2022
Di-n-butyl phthalate	ND	330	330		µg/Kg-dry	1	10/5/2022
Di-n-octyl phthalate	ND	330	330		µg/Kg-dry	1	10/5/2022
Fluoranthene	610	330	330		µg/Kg-dry	1	10/5/2022
Fluorene	ND	330	330		µg/Kg-dry	1	10/5/2022
Hexachlorobenzene	ND	330	330		µg/Kg-dry	1	10/5/2022
Hexachlorobutadiene	ND	50	50		µg/Kg-dry	1	10/5/2022
Hexachlorocyclopentadiene	ND	330	330		µg/Kg-dry	1	10/5/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/5/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-17

Client Sample ID: DB-13 (1-3')
Collection Date: 9/28/2022 1:25:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	ND	330	330		µg/Kg-dry	1	10/5/2022
Isophorone	ND	330	330		µg/Kg-dry	1	10/5/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/5/2022
Nitrobenzene	ND	330	330		µg/Kg-dry	1	10/5/2022
N-Nitrosodi-n-propylamine	ND	330	330		µg/Kg-dry	1	10/5/2022
N-Nitrosodiphenylamine	ND	330	330		µg/Kg-dry	1	10/5/2022
Pentachlorophenol	ND	35	20		µg/Kg-dry	1	10/5/2022
Phenanthrene	ND	330	330		µg/Kg-dry	1	10/5/2022
Phenol	ND	330	330		µg/Kg-dry	1	10/5/2022
Pyrene	590	330	330		µg/Kg-dry	1	10/5/2022
Surr: 2,4,6-Tribromophenol	64.9	48-94			%REC	1	10/5/2022
Surr: 2-Fluorobiphenyl	71.1	50-103			%REC	1	10/5/2022
Surr: 2-Fluorophenol	61.0	43-105			%REC	1	10/5/2022
Surr: 4-Terphenyl-d14	68.2	55-111			%REC	1	10/5/2022
Surr: Nitrobenzene-d5	68.5	47-100			%REC	1	10/5/2022
Surr: Phenol-d6	67.7	49-110			%REC	1	10/5/2022

VOLATILE ORGANIC COMPOUNDS

SW8260C

Prep Date: 10/3/2022

Analyst: **BG**

1,1,1,2-Tetrachloroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1,1-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2,2-Tetrachloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichlorotrifluoroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
1,2,3-Trichloropropane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2,4-Trichlorobenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
1,2,4-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dibromo-3-chloropropane	ND	130	10		µg/Kg-dry	1	10/6/2022
1,2-Dibromoethane	ND	39	20		µg/Kg-dry	1	10/6/2022
1,2-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dichloroethane	ND	130	50		µg/Kg-dry	1	10/6/2022
1,2-Dichloropropane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,3,5-Trimethylbenzene	ND	130	100		µg/Kg-dry	1	10/6/2022
1,3-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,4-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
2-Butanone	ND	750	750		µg/Kg-dry	1	10/6/2022
2-Hexanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
4-Methyl-2-pentanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
Acetone	ND	1,000	1,000		µg/Kg-dry	1	10/6/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-17

Client Sample ID: DB-13 (1-3')
Collection Date: 9/28/2022 1:25:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Acrylonitrile	ND	130	100		µg/Kg-dry	1	10/6/2022
Benzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Bromodichloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromoform	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromomethane	ND	200	200		µg/Kg-dry	1	10/6/2022
Carbon disulfide	ND	250	250		µg/Kg-dry	1	10/6/2022
Carbon tetrachloride	ND	50	50		µg/Kg-dry	1	10/6/2022
Chlorobenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloroethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Chloroform	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
cis-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
cis-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Dibromochloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Dibromomethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Dichlorodifluoromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Diethyl ether	ND	200	200		µg/Kg-dry	1	10/6/2022
Ethylbenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/6/2022
Isopropylbenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
m,p-Xylene	ND	100	100		µg/Kg-dry	1	10/6/2022
Methyl tert-butyl ether	ND	250	250		µg/Kg-dry	1	10/6/2022
Methylene chloride	ND	320	100		µg/Kg-dry	1	10/6/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
n-Propylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
o-Xylene	69	50	50		µg/Kg-dry	1	10/6/2022
Styrene	ND	50	50		µg/Kg-dry	1	10/6/2022
Tetrachloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Toluene	ND	100	100		µg/Kg-dry	1	10/6/2022
trans-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
trans-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichlorofluoromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Vinyl acetate	ND	5,000	5,000		µg/Kg-dry	1	10/6/2022
Vinyl chloride	ND	40	40		µg/Kg-dry	1	10/6/2022
Xylenes, Total	ND	150	150		µg/Kg-dry	1	10/6/2022
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>104</i>	<i>80-120</i>			<i>%REC</i>	1	10/6/2022
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.3</i>	<i>80-120</i>			<i>%REC</i>	1	10/6/2022
<i>Surr: Dibromofluoromethane</i>	<i>94.2</i>	<i>80-120</i>			<i>%REC</i>	1	10/6/2022
<i>Surr: Toluene-d8</i>	<i>100</i>	<i>80-120</i>			<i>%REC</i>	1	10/6/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-17

Client Sample ID: DB-13 (1-3')
Collection Date: 9/28/2022 1:25:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MOISTURE			SW3550C				Analyst: ALG
Moisture	9.5	0.10	0		% of sample	1	10/3/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-18

Client Sample ID: DB-14 (1-3')
Collection Date: 9/28/2022 1:35:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS			SW8082A		Prep Date: 10/6/2022	Analyst: RM	
Aroclor 1016	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1221	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1232	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1242	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1248	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1254	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1260	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1262	ND	330	330		µg/Kg-dry	1	10/6/2022
Aroclor 1268	ND	330	330		µg/Kg-dry	1	10/6/2022
Surr: Decachlorobiphenyl	63.9	68-137		S	%REC	1	10/6/2022
Surr: Tetrachloro-m-xylene	55.4	71-123		S	%REC	1	10/6/2022
MERCURY BY CVAA			SW7471B		Prep Date: 10/3/2022	Analyst: KRA	
Mercury	ND	50	50		µg/Kg-dry	1	10/4/2022
METALS BY ICP-MS			SW6020B		Prep Date: 10/3/2022	Analyst: STP	
Arsenic	5,100	2,000	2,000		µg/Kg-dry	1	10/3/2022
Barium	26,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Cadmium	ND	200	200		µg/Kg-dry	1	10/3/2022
Chromium	7,600	2,000	2,000		µg/Kg-dry	1	10/3/2022
Copper	13,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
Lead	21,000	10,000	10,000		µg/Kg-dry	1	10/3/2022
Selenium	430	390	200		µg/Kg-dry	1	10/3/2022
Silver	ND	390	100		µg/Kg-dry	1	10/3/2022
Zinc	33,000	1,000	1,000		µg/Kg-dry	1	10/3/2022
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep Date: 10/4/2022	Analyst: EE	
1,2,4-Trichlorobenzene	ND	330	330		µg/Kg-dry	1	10/5/2022
1,2-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/5/2022
1,3-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/5/2022
1,4-Dichlorobenzene	ND	330	330		µg/Kg-dry	1	10/5/2022
2,4,5-Trichlorophenol	ND	300	300		µg/Kg-dry	1	10/5/2022
2,4,6-Trichlorophenol	ND	330	330		µg/Kg-dry	1	10/5/2022
2,4-Dichlorophenol	ND	330	330		µg/Kg-dry	1	10/5/2022
2,4-Dimethylphenol	ND	330	330		µg/Kg-dry	1	10/5/2022
2,4-Dinitrophenol	ND	830	830		µg/Kg-dry	1	10/5/2022
2,4-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	10/5/2022
2,6-Dinitrotoluene	ND	330	330		µg/Kg-dry	1	10/5/2022
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	1	10/5/2022
2-Chlorophenol	ND	330	330		µg/Kg-dry	1	10/5/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-18

Client Sample ID: DB-14 (1-3')
Collection Date: 9/28/2022 1:35:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/5/2022
2-Methylphenol	ND	330	330		µg/Kg-dry	1	10/5/2022
2-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/5/2022
2-Nitrophenol	ND	330	330		µg/Kg-dry	1	10/5/2022
3&4-Methylphenol	ND	330	330		µg/Kg-dry	1	10/5/2022
3,3'-Dichlorobenzidine	ND	2,000	2,000		µg/Kg-dry	1	10/5/2022
3-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/5/2022
4,6-Dinitro-2-methylphenol	ND	830	830		µg/Kg-dry	1	10/5/2022
4-Bromophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	10/5/2022
4-Chloro-3-methylphenol	ND	280	280		µg/Kg-dry	1	10/5/2022
4-Chloroaniline	ND	330	330		µg/Kg-dry	1	10/5/2022
4-Chlorophenyl phenyl ether	ND	330	330		µg/Kg-dry	1	10/5/2022
4-Nitroaniline	ND	830	830		µg/Kg-dry	1	10/5/2022
4-Nitrophenol	ND	830	830		µg/Kg-dry	1	10/5/2022
Acenaphthene	ND	330	330		µg/Kg-dry	1	10/5/2022
Acenaphthylene	ND	330	330		µg/Kg-dry	1	10/5/2022
Anthracene	ND	330	330		µg/Kg-dry	1	10/5/2022
Benzo(a)anthracene	ND	330	330		µg/Kg-dry	1	10/5/2022
Benzo(a)pyrene	ND	330	330		µg/Kg-dry	1	10/5/2022
Benzo(b)fluoranthene	ND	330	330		µg/Kg-dry	1	10/5/2022
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	10/5/2022
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	10/5/2022
Bis(2-chloroethoxy)methane	ND	330	330		µg/Kg-dry	1	10/5/2022
Bis(2-chloroethyl)ether	ND	100	100		µg/Kg-dry	1	10/5/2022
Bis(2-chloroisopropyl)ether	ND	330	330		µg/Kg-dry	1	10/5/2022
Bis(2-ethylhexyl)phthalate	ND	330	330		µg/Kg-dry	1	10/5/2022
Butyl benzyl phthalate	ND	330	330		µg/Kg-dry	1	10/5/2022
Carbazole	ND	330	330		µg/Kg-dry	1	10/5/2022
Chrysene	ND	330	330		µg/Kg-dry	1	10/5/2022
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	10/5/2022
Dibenzofuran	ND	330	330		µg/Kg-dry	1	10/5/2022
Diethyl phthalate	ND	330	330		µg/Kg-dry	1	10/5/2022
Dimethyl phthalate	ND	330	330		µg/Kg-dry	1	10/5/2022
Di-n-butyl phthalate	ND	330	330		µg/Kg-dry	1	10/5/2022
Di-n-octyl phthalate	ND	330	330		µg/Kg-dry	1	10/5/2022
Fluoranthene	350	330	330		µg/Kg-dry	1	10/5/2022
Fluorene	ND	330	330		µg/Kg-dry	1	10/5/2022
Hexachlorobenzene	ND	330	330		µg/Kg-dry	1	10/5/2022
Hexachlorobutadiene	ND	50	50		µg/Kg-dry	1	10/5/2022
Hexachlorocyclopentadiene	ND	330	330		µg/Kg-dry	1	10/5/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/5/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-18

Client Sample ID: DB-14 (1-3')
Collection Date: 9/28/2022 1:35:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	ND	330	330		µg/Kg-dry	1	10/5/2022
Isophorone	ND	330	330		µg/Kg-dry	1	10/5/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/5/2022
Nitrobenzene	ND	330	330		µg/Kg-dry	1	10/5/2022
N-Nitrosodi-n-propylamine	ND	330	330		µg/Kg-dry	1	10/5/2022
N-Nitrosodiphenylamine	ND	330	330		µg/Kg-dry	1	10/5/2022
Pentachlorophenol	ND	36	20		µg/Kg-dry	1	10/5/2022
Phenanthrene	ND	330	330		µg/Kg-dry	1	10/5/2022
Phenol	ND	330	330		µg/Kg-dry	1	10/5/2022
Pyrene	ND	330	330		µg/Kg-dry	1	10/5/2022
Surr: 2,4,6-Tribromophenol	45.3	48-94		S	%REC	1	10/5/2022
Surr: 2-Fluorobiphenyl	71.4	50-103			%REC	1	10/5/2022
Surr: 2-Fluorophenol	60.2	43-105			%REC	1	10/5/2022
Surr: 4-Terphenyl-d14	66.0	55-111			%REC	1	10/5/2022
Surr: Nitrobenzene-d5	67.0	47-100			%REC	1	10/5/2022
Surr: Phenol-d6	70.6	49-110			%REC	1	10/5/2022

VOLATILE ORGANIC COMPOUNDS

SW8260C

Prep Date: 10/3/2022

Analyst: HJ

1,1,1,2-Tetrachloroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1,1-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2,2-Tetrachloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichlorotrifluoroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
1,2,3-Trichloropropane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2,4-Trichlorobenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
1,2,4-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dibromo-3-chloropropane	ND	110	10		µg/Kg-dry	1	10/6/2022
1,2-Dibromoethane	ND	34	20		µg/Kg-dry	1	10/6/2022
1,2-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dichloroethane	ND	110	50		µg/Kg-dry	1	10/6/2022
1,2-Dichloropropane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,3,5-Trimethylbenzene	ND	110	100		µg/Kg-dry	1	10/6/2022
1,3-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,4-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
2-Butanone	ND	750	750		µg/Kg-dry	1	10/6/2022
2-Hexanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
4-Methyl-2-pentanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
Acetone	ND	1,000	1,000		µg/Kg-dry	1	10/6/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-18

Client Sample ID: DB-14 (1-3')
Collection Date: 9/28/2022 1:35:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Acrylonitrile	ND	110	100		µg/Kg-dry	1	10/6/2022
Benzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Bromodichloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromoform	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromomethane	ND	200	200		µg/Kg-dry	1	10/6/2022
Carbon disulfide	ND	250	250		µg/Kg-dry	1	10/6/2022
Carbon tetrachloride	ND	50	50		µg/Kg-dry	1	10/6/2022
Chlorobenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloroethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Chloroform	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
cis-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
cis-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Dibromochloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Dibromomethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Dichlorodifluoromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Diethyl ether	ND	200	200		µg/Kg-dry	1	10/6/2022
Ethylbenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/6/2022
Isopropylbenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
m,p-Xylene	ND	100	100		µg/Kg-dry	1	10/6/2022
Methyl tert-butyl ether	ND	250	250		µg/Kg-dry	1	10/6/2022
Methylene chloride	ND	290	100		µg/Kg-dry	1	10/6/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
n-Propylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
o-Xylene	ND	50	50		µg/Kg-dry	1	10/6/2022
Styrene	ND	50	50		µg/Kg-dry	1	10/6/2022
Tetrachloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Toluene	ND	100	100		µg/Kg-dry	1	10/6/2022
trans-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
trans-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichlorofluoromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Vinyl acetate	ND	5,000	5,000		µg/Kg-dry	1	10/6/2022
Vinyl chloride	ND	40	40		µg/Kg-dry	1	10/6/2022
Xylenes, Total	ND	150	150		µg/Kg-dry	1	10/6/2022
<i>Surr: 1,2-Dichloroethane-d4</i>	98.5	80-120			%REC	1	10/6/2022
<i>Surr: 4-Bromofluorobenzene</i>	97.5	80-120			%REC	1	10/6/2022
<i>Surr: Dibromofluoromethane</i>	71.8	80-120		S	%REC	1	10/6/2022
<i>Surr: Toluene-d8</i>	99.9	80-120			%REC	1	10/6/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-18

Client Sample ID: DB-14 (1-3')
Collection Date: 9/28/2022 1:35:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MOISTURE			SW3550C				Analyst: ALG
Moisture	7.5	0.10	0		% of sample	1	10/3/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-19

Client Sample ID: Trip Blank
Collection Date: 9/28/2022
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Prep Date: 10/3/2022		Analyst: BG
1,1,1,2-Tetrachloroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1,1-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2,2-Tetrachloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1,2-Trichlorotrifluoroethane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,1-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
1,2,3-Trichloropropane	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2,4-Trichlorobenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
1,2,4-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dibromo-3-chloropropane	ND	100	10		µg/Kg-dry	1	10/6/2022
1,2-Dibromoethane	ND	30	20		µg/Kg-dry	1	10/6/2022
1,2-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,2-Dichloroethane	ND	100	50		µg/Kg-dry	1	10/6/2022
1,2-Dichloropropane	ND	50	50		µg/Kg-dry	1	10/6/2022
1,3,5-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,3-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
1,4-Dichlorobenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
2-Butanone	ND	750	750		µg/Kg-dry	1	10/6/2022
2-Hexanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
4-Methyl-2-pentanone	ND	2,500	2,500		µg/Kg-dry	1	10/6/2022
Acetone	ND	1,000	1,000		µg/Kg-dry	1	10/6/2022
Acrylonitrile	ND	100	100		µg/Kg-dry	1	10/6/2022
Benzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Bromodichloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromoform	ND	100	100		µg/Kg-dry	1	10/6/2022
Bromomethane	ND	200	200		µg/Kg-dry	1	10/6/2022
Carbon disulfide	ND	250	250		µg/Kg-dry	1	10/6/2022
Carbon tetrachloride	ND	50	50		µg/Kg-dry	1	10/6/2022
Chlorobenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloroethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Chloroform	ND	50	50		µg/Kg-dry	1	10/6/2022
Chloromethane	ND	250	250		µg/Kg-dry	1	10/6/2022
cis-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
cis-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Dibromochloromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Dibromomethane	ND	250	250		µg/Kg-dry	1	10/6/2022
Dichlorodifluoromethane	ND	250	250		µg/Kg-dry	1	10/6/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Oct-22

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development
Lab ID: 22092946-19

Client Sample ID: Trip Blank
Collection Date: 9/28/2022
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Diethyl ether	ND	200	200		µg/Kg-dry	1	10/6/2022
Ethylbenzene	ND	50	50		µg/Kg-dry	1	10/6/2022
Hexachloroethane	ND	300	300		µg/Kg-dry	1	10/6/2022
Isopropylbenzene	ND	250	250		µg/Kg-dry	1	10/6/2022
m,p-Xylene	ND	100	100		µg/Kg-dry	1	10/6/2022
Methyl tert-butyl ether	ND	250	250		µg/Kg-dry	1	10/6/2022
Methylene chloride	ND	250	100		µg/Kg-dry	1	10/6/2022
Naphthalene	ND	330	330		µg/Kg-dry	1	10/6/2022
n-Propylbenzene	ND	100	100		µg/Kg-dry	1	10/6/2022
o-Xylene	ND	50	50		µg/Kg-dry	1	10/6/2022
Styrene	ND	50	50		µg/Kg-dry	1	10/6/2022
Tetrachloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Toluene	ND	100	100		µg/Kg-dry	1	10/6/2022
trans-1,2-Dichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
trans-1,3-Dichloropropene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichloroethene	ND	50	50		µg/Kg-dry	1	10/6/2022
Trichlorofluoromethane	ND	100	100		µg/Kg-dry	1	10/6/2022
Vinyl acetate	ND	5,000	5,000		µg/Kg-dry	1	10/6/2022
Vinyl chloride	ND	40	40		µg/Kg-dry	1	10/6/2022
Xylenes, Total	ND	150	150		µg/Kg-dry	1	10/6/2022
Surr: 1,2-Dichloroethane-d4	104	80-120			%REC	1	10/6/2022
Surr: 4-Bromofluorobenzene	96.5	80-120			%REC	1	10/6/2022
Surr: Dibromofluoromethane	98.8	80-120			%REC	1	10/6/2022
Surr: Toluene-d8	100	80-120			%REC	1	10/6/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: **204162** Instrument ID **GC14** Method: **SW8082A**

MBLK		Sample ID: PBLKS1-204162-204162				Units: µg/Kg		Analysis Date: 10/3/2022 07:48 PM		
Client ID:		Run ID: GC14_221003A		SeqNo: 8862775		Prep Date: 10/3/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	67								
Aroclor 1221	ND	67								
Aroclor 1232	ND	67								
Aroclor 1242	ND	67								
Aroclor 1248	ND	67								
Aroclor 1254	ND	67								
Aroclor 1260	ND	67								
Aroclor 1262	ND	67								
Aroclor 1268	ND	67								
<i>Surr: Decachlorobiphenyl</i>	40.8	0	33.3	0	123	68-137	0			
<i>Surr: Tetrachloro-m-xylene</i>	33	0	33.3	0	99.1	71-123	0			

LCS		Sample ID: PLCSS1-204162-204162				Units: µg/Kg		Analysis Date: 10/3/2022 08:01 PM		
Client ID:		Run ID: GC14_221003A		SeqNo: 8862776		Prep Date: 10/3/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	804.2	67	833	0	96.5	75-129	0			
Aroclor 1260	874.1	67	833	0	105	69-127	0			
<i>Surr: Decachlorobiphenyl</i>	41.5	0	33.3	0	125	68-137	0			
<i>Surr: Tetrachloro-m-xylene</i>	34.88	0	33.3	0	105	71-123	0			

MS		Sample ID: 22092946-01B MS				Units: µg/Kg		Analysis Date: 10/3/2022 08:14 PM		
Client ID: B-1-E (1-3')		Run ID: GC14_221003A		SeqNo: 8862777		Prep Date: 10/3/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	752.5	67	832.4	0	90.4	75-129	0			
Aroclor 1260	768.2	67	832.4	0	92.3	69-127	0			
<i>Surr: Decachlorobiphenyl</i>	32.58	0	33.28	0	97.9	68-137	0			
<i>Surr: Tetrachloro-m-xylene</i>	27.66	0	33.28	0	83.1	71-123	0			

MSD		Sample ID: 22092946-01B MSD				Units: µg/Kg		Analysis Date: 10/3/2022 08:27 PM		
Client ID: B-1-E (1-3')		Run ID: GC14_221003A		SeqNo: 8862778		Prep Date: 10/3/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	758.4	65	812.4	0	93.4	75-129	752.5	0.779	20	
Aroclor 1260	754.6	65	812.4	0	92.9	69-127	768.2	1.78	20	
<i>Surr: Decachlorobiphenyl</i>	34.69	0	32.48	0	107	68-137	32.58	6.27	20	
<i>Surr: Tetrachloro-m-xylene</i>	29.83	0	32.48	0	91.8	71-123	27.66	7.52	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development

QC BATCH REPORT

Batch ID: **204162** Instrument ID **GC14** Method: **SW8082A**

The following samples were analyzed in this batch:

22092946-01B	22092946-02B	22092946-03B
22092946-04B	22092946-05B	22092946-06B
22092946-07B	22092946-08B	22092946-09B
22092946-10B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: **204189** Instrument ID **GC14** Method: **SW8082A**

MBLK				Sample ID: PBLKS1-204189-204189		Units: µg/Kg		Analysis Date: 10/4/2022 02:49 PM		
Client ID:		Run ID: GC14_221004B		SeqNo: 8868243		Prep Date: 10/3/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	67								
Aroclor 1221	ND	67								
Aroclor 1232	ND	67								
Aroclor 1242	ND	67								
Aroclor 1248	ND	67								
Aroclor 1254	ND	67								
Aroclor 1260	ND	67								
Aroclor 1262	ND	67								
Aroclor 1268	ND	67								
<i>Surr: Decachlorobiphenyl</i>	39.07	0	33.3	0	117	68-137	0			
<i>Surr: Tetrachloro-m-xylene</i>	32.97	0	33.3	0	99	71-123	0			

LCS				Sample ID: PLCSS1-204189-204189		Units: µg/Kg		Analysis Date: 10/4/2022 03:02 PM		
Client ID:		Run ID: GC14_221004B		SeqNo: 8868244		Prep Date: 10/3/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	832.6	67	833	0	100	75-129	0			
Aroclor 1260	895.5	67	833	0	108	69-127	0			
<i>Surr: Decachlorobiphenyl</i>	40.73	0	33.3	0	122	68-137	0			
<i>Surr: Tetrachloro-m-xylene</i>	34.17	0	33.3	0	103	71-123	0			

MS				Sample ID: 22092874-01B MS		Units: µg/Kg		Analysis Date: 10/4/2022 03:15 PM		
Client ID:		Run ID: GC14_221004B		SeqNo: 8868245		Prep Date: 10/3/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	824.4	65	816.5	0	101	75-129	0			
Aroclor 1260	886.6	65	816.5	0	109	69-127	0			
<i>Surr: Decachlorobiphenyl</i>	40.61	0	32.64	0	124	68-137	0			
<i>Surr: Tetrachloro-m-xylene</i>	33.49	0	32.64	0	103	71-123	0			

MSD				Sample ID: 22092874-01B MSD		Units: µg/Kg		Analysis Date: 10/4/2022 03:28 PM		
Client ID:		Run ID: GC14_221004B		SeqNo: 8868246		Prep Date: 10/3/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	830.9	64	797.9	0	104	75-129	824.4	0.785	20	
Aroclor 1260	890.6	64	797.9	0	112	69-127	886.6	0.45	20	
<i>Surr: Decachlorobiphenyl</i>	40.22	0	31.9	0	126	68-137	40.61	0.978	20	
<i>Surr: Tetrachloro-m-xylene</i>	33.16	0	31.9	0	104	71-123	33.49	0.989	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development

QC BATCH REPORT

Batch ID: **204189** Instrument ID **GC14** Method: **SW8082A**

The following samples were analyzed in this batch:

22092946-11B	22092946-12B	22092946-13B
22092946-14B	22092946-15B	22092946-16B
22092946-17B	22092946-18B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: **204377** Instrument ID **GC14** Method: **SW8082A**

MBLK				Sample ID: PBLKS1-204377-204377		Units: µg/Kg		Analysis Date: 10/6/2022 06:08 PM		
Client ID:		Run ID: GC14_221006B		SeqNo: 8878018		Prep Date: 10/6/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	67								
Aroclor 1221	ND	67								
Aroclor 1232	ND	67								
Aroclor 1242	ND	67								
Aroclor 1248	ND	67								
Aroclor 1254	ND	67								
Aroclor 1260	ND	67								
Aroclor 1262	ND	67								
Aroclor 1268	ND	67								
<i>Surr: Decachlorobiphenyl</i>	36.3	0	33.3	0	109	68-137	0			
<i>Surr: Tetrachloro-m-xylene</i>	31.75	0	33.3	0	95.3	71-123	0			

LCS				Sample ID: PLCSS1-204377-204377		Units: µg/Kg		Analysis Date: 10/6/2022 06:20 PM		
Client ID:		Run ID: GC14_221006B		SeqNo: 8878019		Prep Date: 10/6/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	810.3	67	833	0	97.3	75-129	0			
Aroclor 1260	856.9	67	833	0	103	69-127	0			
<i>Surr: Decachlorobiphenyl</i>	39.3	0	33.3	0	118	68-137	0			
<i>Surr: Tetrachloro-m-xylene</i>	34.73	0	33.3	0	104	71-123	0			

MS				Sample ID: 22100273-08A MS		Units: µg/Kg		Analysis Date: 10/6/2022 06:33 PM		
Client ID:		Run ID: GC14_221006B		SeqNo: 8878020		Prep Date: 10/6/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	592.6	66	828.6	0	71.5	75-129	0			S
Aroclor 1260	597.7	66	828.6	0	72.1	69-127	0			
<i>Surr: Decachlorobiphenyl</i>	27.88	0	33.12	0	84.2	68-137	0			
<i>Surr: Tetrachloro-m-xylene</i>	23.76	0	33.12	0	71.7	71-123	0			

MSD				Sample ID: 22100273-08A MSD		Units: µg/Kg		Analysis Date: 10/6/2022 06:46 PM		
Client ID:		Run ID: GC14_221006B		SeqNo: 8878021		Prep Date: 10/6/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	610.1	65	815.1	0	74.9	75-129	592.6	2.91	20	S
Aroclor 1260	586.8	65	815.1	0	72	69-127	597.7	1.84	20	
<i>Surr: Decachlorobiphenyl</i>	29.27	0	32.58	0	89.8	68-137	27.88	4.86	20	
<i>Surr: Tetrachloro-m-xylene</i>	24.89	0	32.58	0	76.4	71-123	23.76	4.64	20	

The following samples were analyzed in this batch:

22092946-06B	22092946-07B	22092946-09B
22092946-10B	22092946-14B	22092946-18B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: **204116** Instrument ID **HG4** Method: **SW7471B**

MBLK		Sample ID: MBLK-204116-204116				Units: mg/Kg		Analysis Date: 10/3/2022 12:43 PM		
Client ID:		Run ID: HG4_221003A		SeqNo: 8858551		Prep Date: 9/30/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.020

LCS		Sample ID: LCS-204116-204116				Units: mg/Kg		Analysis Date: 10/3/2022 12:45 PM		
Client ID:		Run ID: HG4_221003A		SeqNo: 8858552		Prep Date: 9/30/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1692 0.020 0.1665 0 102 80-120 0

MS		Sample ID: 22092301-51AMS				Units: mg/Kg		Analysis Date: 10/3/2022 12:49 PM		
Client ID:		Run ID: HG4_221003A		SeqNo: 8858554		Prep Date: 9/30/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.3259 0.017 0.1397 0.2257 71.7 75-125 0 SE

MSD		Sample ID: 22092301-51AMSD				Units: mg/Kg		Analysis Date: 10/3/2022 12:51 PM		
Client ID:		Run ID: HG4_221003A		SeqNo: 8858555		Prep Date: 9/30/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.2762 0.016 0.1308 0.2257 38.6 75-125 0.3259 16.5 35 SE

The following samples were analyzed in this batch:

22092946-01B	22092946-02B	22092946-03B
22092946-04B	22092946-05B	22092946-06B
22092946-07B	22092946-08B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: **204118** Instrument ID **HG4** Method: **SW7471B**

MBLK		Sample ID: MBLK-204118-204118				Units: mg/Kg		Analysis Date: 10/3/2022 01:39 PM		
Client ID:		Run ID: HG4_221003A		SeqNo: 8858581		Prep Date: 9/30/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.020								

LCS		Sample ID: LCS-204118-204118				Units: mg/Kg		Analysis Date: 10/3/2022 01:41 PM		
Client ID:		Run ID: HG4_221003A		SeqNo: 8858582		Prep Date: 9/30/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1667	0.020	0.1665	0	100	80-120	0			

MS		Sample ID: 22092946-09BMS				Units: mg/Kg		Analysis Date: 10/3/2022 01:45 PM		
Client ID: DB-5 (2-4')		Run ID: HG4_221003A		SeqNo: 8858584		Prep Date: 9/30/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1469	0.015	0.1271	0.02494	96	75-125	0			

MSD		Sample ID: 22092946-09BMSD				Units: mg/Kg		Analysis Date: 10/3/2022 01:47 PM		
Client ID: DB-5 (2-4')		Run ID: HG4_221003A		SeqNo: 8858585		Prep Date: 9/30/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1466	0.015	0.1268	0.02494	95.9	75-125	0.1469	0.253	35	

The following samples were analyzed in this batch:

22092946-09B	22092946-10B	22092946-11B
22092946-12B	22092946-13B	22092946-14B
22092946-15B	22092946-16B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: **204201** Instrument ID **HG4** Method: **SW7471B**

MBLK		Sample ID: MBLK-204201-204201				Units: mg/Kg		Analysis Date: 10/4/2022 09:46 AM			
Client ID:		Run ID: HG4_221004A				SeqNo: 8862011		Prep Date: 10/3/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury ND 0.020

LCS		Sample ID: LCS-204201-204201				Units: mg/Kg		Analysis Date: 10/4/2022 09:48 AM			
Client ID:		Run ID: HG4_221004A				SeqNo: 8862012		Prep Date: 10/3/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1667 0.020 0.1665 0 100 80-120 0

MS		Sample ID: 22092976-01BMS				Units: mg/Kg		Analysis Date: 10/4/2022 10:23 AM			
Client ID:		Run ID: HG4_221004A				SeqNo: 8862032		Prep Date: 10/3/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1691 0.020 0.164 0.006434 99.2 75-125 0

MSD		Sample ID: 22092976-01BMSD				Units: mg/Kg		Analysis Date: 10/4/2022 10:25 AM			
Client ID:		Run ID: HG4_221004A				SeqNo: 8862033		Prep Date: 10/3/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1554 0.018 0.1465 0.006434 102 75-125 0.1691 8.45 35

The following samples were analyzed in this batch:

22092946-17B	22092946-18B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: **204137** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK		Sample ID: MBLK-204137-204137				Units: mg/Kg		Analysis Date: 10/3/2022 09:21 PM		
Client ID:		Run ID: ICPMS3_221003B		SeqNo: 8861062		Prep Date: 10/3/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	ND	0.10								
Chromium	ND	0.25								
Copper	ND	0.25								
Lead	ND	0.25								
Silver	ND	0.25								
Zinc	ND	0.50								

MBLK		Sample ID: MBLK-204137-204137				Units: mg/Kg		Analysis Date: 10/4/2022 04:12 PM		
Client ID:		Run ID: ICPMS3_221004B		SeqNo: 8864174		Prep Date: 10/3/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	ND	0.25								

LCS		Sample ID: LCS-204137-204137				Units: mg/Kg		Analysis Date: 10/3/2022 09:23 PM		
Client ID:		Run ID: ICPMS3_221003B		SeqNo: 8861063		Prep Date: 10/3/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.659	0.25	5	0	93.2	80-120	0			
Barium	5.054	0.25	5	0	101	80-120	0			
Cadmium	4.998	0.10	5	0	100	80-120	0			
Chromium	4.81	0.25	5	0	96.2	80-120	0			
Copper	4.977	0.25	5	0	99.5	80-120	0			
Lead	5	0.25	5	0	100	80-120	0			
Selenium	4.888	0.25	5	0	97.8	80-120	0			
Silver	4.63	0.25	5	0	92.6	80-120	0			
Zinc	4.817	0.50	5	0	96.3	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: 204137 Instrument ID ICPMS3 Method: SW6020B

MS				Sample ID: 22092946-16BMS			Units: mg/Kg		Analysis Date: 10/3/2022 10:10 PM		
Client ID: DB-12 (3-5')			Run ID: ICPMS3_221003B			SeqNo: 8861088		Prep Date: 10/3/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	9.874	0.34	6.878	1.879	116	75-125	0				
Barium	41.87	0.34	6.878	19.28	329	75-125	0			S	
Cadmium	5.794	0.14	6.878	0.2631	80.4	75-125	0				
Chromium	13.65	0.34	6.878	4.249	137	75-125	0			S	
Copper	34.31	0.34	6.878	14.06	294	75-125	0			S	
Lead	181.3	0.34	6.878	88.16	1350	75-125	0			SEO	
Selenium	5.398	0.34	6.878	0.2083	75.5	75-125	0				
Silver	4.53	0.34	6.878	0.02613	65.5	75-125	0			S	
Zinc	62.48	0.69	6.878	35.22	396	75-125	0			SO	

MSD				Sample ID: 22092946-16BMSD			Units: mg/Kg		Analysis Date: 10/3/2022 10:15 PM		
Client ID: DB-12 (3-5')			Run ID: ICPMS3_221003B			SeqNo: 8861091		Prep Date: 10/3/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	9.623	0.33	6.519	1.879	119	75-125	9.874	2.57	20		
Barium	45.22	0.33	6.519	19.28	398	75-125	41.87	7.69	20	S	
Cadmium	5.474	0.13	6.519	0.2631	79.9	75-125	5.794	5.69	20		
Chromium	12.8	0.33	6.519	4.249	131	75-125	13.65	6.43	20	S	
Lead	202.6	0.33	6.519	88.16	1760	75-125	181.3	11.1	20	SEO	
Selenium	5.019	0.33	6.519	0.2083	73.8	75-125	5.398	7.27	20	S	
Silver	4.322	0.33	6.519	0.02613	65.9	75-125	4.53	4.71	20	S	

MSD				Sample ID: 22092946-16BMSD			Units: mg/Kg		Analysis Date: 10/5/2022 04:50 PM		
Client ID: DB-12 (3-5')			Run ID: ICPMS3_221005B			SeqNo: 8869318		Prep Date: 10/3/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	43.83	0.33	6.519	14.06	457	75-125	34.31	24.4	20	SR	
Zinc	83.34	0.65	6.519	35.22	738	75-125	62.48	28.6	20	SRO	

The following samples were analyzed in this batch:

22092946-01B	22092946-02B	22092946-03B
22092946-04B	22092946-05B	22092946-06B
22092946-07B	22092946-08B	22092946-09B
22092946-10B	22092946-11B	22092946-12B
22092946-13B	22092946-14B	22092946-15B
22092946-16B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: **204138** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK		Sample ID: MBLK-204138-204138				Units: mg/Kg		Analysis Date: 10/3/2022 10:17 PM		
Client ID:		Run ID: ICPMS3_221003B				SeqNo: 8861092		Prep Date: 10/3/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	ND	0.10								
Chromium	ND	0.25								
Lead	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								

MBLK		Sample ID: MBLK-204138-204138				Units: mg/Kg		Analysis Date: 10/4/2022 05:03 PM		
Client ID:		Run ID: ICPMS3_221004B				SeqNo: 8864503		Prep Date: 10/3/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	ND	0.25								
Zinc	ND	0.50								

LCS		Sample ID: LCS-204138-204138				Units: mg/Kg		Analysis Date: 10/3/2022 10:18 PM		
Client ID:		Run ID: ICPMS3_221003B				SeqNo: 8861093		Prep Date: 10/3/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.593	0.25	5	0	91.9	80-120	0			
Barium	4.972	0.25	5	0	99.4	80-120	0			
Cadmium	4.815	0.10	5	0	96.3	80-120	0			
Chromium	4.688	0.25	5	0	93.8	80-120	0			
Lead	4.97	0.25	5	0	99.4	80-120	0			
Selenium	4.652	0.25	5	0	93	80-120	0			
Silver	4.366	0.25	5	0	87.3	80-120	0			

LCS		Sample ID: LCS-204138-204138				Units: mg/Kg		Analysis Date: 10/4/2022 05:04 PM		
Client ID:		Run ID: ICPMS3_221004B				SeqNo: 8864504		Prep Date: 10/3/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	5.215	0.25	5	0	104	80-120	0			
Zinc	4.925	0.50	5	0	98.5	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: **204138** Instrument ID **ICPMS3** Method: **SW6020B**

MS				Sample ID: 22092851-05BMS		Units: mg/Kg		Analysis Date: 10/3/2022 11:28 PM		
Client ID:		Run ID: ICPMS3_221003B		SeqNo: 8861132		Prep Date: 10/3/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.382	0.40	7.974	2.135	90.9	75-125	0			
Barium	21.97	0.40	7.974	14.44	94.5	75-125	0			
Cadmium	7.219	0.16	7.974	0.4357	85.1	75-125	0			
Chromium	14.11	0.40	7.974	5.644	106	75-125	0			
Copper	16.69	0.40	7.974	10.68	75.4	75-125	0			
Lead	23.67	0.40	7.974	18.67	62.6	75-125	0			S
Selenium	7.025	0.40	7.974	0.2348	85.1	75-125	0			
Silver	6.145	0.40	7.974	0.01472	76.9	75-125	0			
Zinc	57.57	0.80	7.974	47.95	121	75-125	0			O

MSD				Sample ID: 22092851-05BMSD		Units: mg/Kg		Analysis Date: 10/3/2022 11:30 PM		
Client ID:		Run ID: ICPMS3_221003B		SeqNo: 8861133		Prep Date: 10/3/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.804	0.38	7.599	2.135	87.8	75-125	9.382	6.36	20	
Barium	21.6	0.38	7.599	14.44	94.3	75-125	21.97	1.69	20	
Cadmium	6.864	0.15	7.599	0.4357	84.6	75-125	7.219	5.05	20	
Chromium	13.35	0.38	7.599	5.644	101	75-125	14.11	5.51	20	
Copper	18.63	0.38	7.599	10.68	105	75-125	16.69	11	20	
Lead	25.54	0.38	7.599	18.67	90.4	75-125	23.67	7.62	20	
Selenium	6.707	0.38	7.599	0.2348	85.2	75-125	7.025	4.63	20	
Silver	5.804	0.38	7.599	0.01472	76.2	75-125	6.145	5.7	20	
Zinc	54.37	0.76	7.599	47.95	84.5	75-125	57.57	5.72	20	O

The following samples were analyzed in this batch: 22092946-17B 22092946-18B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: 204174 Instrument ID SVMS9 Method: SW846 8270D

MBLK		Sample ID: SBLKS1-204174-204174				Units: µg/Kg		Analysis Date: 10/3/2022 04:51 PM		
Client ID:		Run ID: SVMS9_221003A		SeqNo: 8863122		Prep Date: 10/3/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	ND	33								
1,2-Dichlorobenzene	ND	33								
1,3-Dichlorobenzene	ND	33								
1,4-Dichlorobenzene	ND	33								
2,4,5-Trichlorophenol	ND	33								
2,4,6-Trichlorophenol	ND	33								
2,4-Dichlorophenol	ND	33								
2,4-Dimethylphenol	ND	33								
2,4-Dinitrophenol	ND	670								
2,4-Dinitrotoluene	ND	33								
2,6-Dinitrotoluene	ND	33								
2-Chloronaphthalene	ND	6.7								
2-Chlorophenol	ND	33								
2-Methylnaphthalene	ND	6.7								
2-Methylphenol	ND	33								
2-Nitroaniline	ND	33								
2-Nitrophenol	ND	33								
3&4-Methylphenol	ND	33								
3,3'-Dichlorobenzidine	ND	170								
3-Nitroaniline	ND	33								
4,6-Dinitro-2-methylphenol	ND	33								
4-Bromophenyl phenyl ether	ND	33								
4-Chloro-3-methylphenol	ND	33								
4-Chloroaniline	ND	67								
4-Chlorophenyl phenyl ether	ND	33								
4-Nitroaniline	ND	170								
4-Nitrophenol	ND	170								
Acenaphthene	ND	6.7								
Acenaphthylene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(g,h,i)perylene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Bis(2-chloroethoxy)methane	ND	33								
Bis(2-chloroethyl)ether	ND	33								
Bis(2-chloroisopropyl)ether	ND	33								
Bis(2-ethylhexyl)phthalate	ND	33								
Butyl benzyl phthalate	ND	67								
Carbazole	ND	33								
Chrysene	ND	6.7								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development

QC BATCH REPORT

Batch ID: 204174	Instrument ID SVMS9	Method: SW846 8270D						
Dibenzo(a,h)anthracene	ND	6.7						
Dibenzofuran	ND	33						
Diethyl phthalate	ND	33						
Dimethyl phthalate	ND	33						
Di-n-butyl phthalate	ND	33						
Di-n-octyl phthalate	ND	33						
Fluoranthene	ND	6.7						
Fluorene	ND	6.7						
Hexachlorobenzene	ND	33						
Hexachlorobutadiene	ND	33						
Hexachlorocyclopentadiene	ND	33						
Hexachloroethane	ND	33						
Indeno(1,2,3-cd)pyrene	ND	6.7						
Isophorone	ND	170						
Naphthalene	ND	6.7						
Nitrobenzene	ND	170						
N-Nitrosodi-n-propylamine	ND	33						
N-Nitrosodiphenylamine	ND	33						
Pentachlorophenol	ND	33						
Phenanthrene	ND	6.7						
Phenol	ND	33						
Pyrene	ND	6.7						
<i>Surr: 2,4,6-Tribromophenol</i>	2243	0	3333	0	67.3	48-94	0	
<i>Surr: 2-Fluorobiphenyl</i>	2483	0	3333	0	74.5	50-103	0	
<i>Surr: 2-Fluorophenol</i>	2378	0	3333	0	71.3	43-105	0	
<i>Surr: 4-Terphenyl-d14</i>	2511	0	3333	0	75.3	55-111	0	
<i>Surr: Nitrobenzene-d5</i>	2279	0	3333	0	68.4	47-100	0	
<i>Surr: Phenol-d6</i>	2592	0	3333	0	77.8	49-110	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: 204174 Instrument ID SVMS9 Method: SW846 8270D

LCS				Sample ID: SLCSS1-204174-204174		Units: µg/Kg		Analysis Date: 10/3/2022 05:16 PM		
Client ID:		Run ID: SVMS9_221003A		SeqNo: 8863124		Prep Date: 10/3/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	986	33	1333	0	74	53-98	0			
1,2-Dichlorobenzene	951.3	33	1333	0	71.4	55-97	0			
1,3-Dichlorobenzene	954	33	1333	0	71.6	53-96	0			
1,4-Dichlorobenzene	958	33	1333	0	71.9	54-96	0			
2,4,5-Trichlorophenol	962	33	1333	0	72.2	54-98	0			
2,4,6-Trichlorophenol	990.7	33	1333	0	74.3	56-97	0			
2,4-Dichlorophenol	966	33	1333	0	72.5	54-99	0			
2,4-Dimethylphenol	892.7	33	1333	0	67	47-102	0			
2,4-Dinitrophenol	751.3	670	1333	0	56.4	10-100	0			
2,4-Dinitrotoluene	1082	33	1333	0	81.2	62-105	0			
2,6-Dinitrotoluene	1062	33	1333	0	79.7	62-103	0			
2-Chloronaphthalene	951.3	6.7	1333	0	71.4	57-101	0			
2-Chlorophenol	992	33	1333	0	74.4	52-102	0			
2-Methylnaphthalene	958	6.7	1333	0	71.9	55-102	0			
2-Methylphenol	930.7	33	1333	0	69.8	54-103	0			
2-Nitroaniline	956.7	33	1333	0	71.8	57-103	0			
2-Nitrophenol	949.3	33	1333	0	71.2	52-102	0			
3&4-Methylphenol	950.7	33	1333	0	71.3	56-103	0			
3,3'-Dichlorobenzidine	960.7	170	1333	0	72.1	41-91	0			
3-Nitroaniline	924	33	1333	0	69.3	35-107	0			
4,6-Dinitro-2-methylphenol	1014	33	1333	0	76.1	42-104	0			
4-Bromophenyl phenyl ether	1063	33	1333	0	79.8	63-104	0			
4-Chloro-3-methylphenol	966	33	1333	0	72.5	57-103	0			
4-Chloroaniline	800.7	67	1333	0	60.1	32-99	0			
4-Chlorophenyl phenyl ether	1077	33	1333	0	80.8	62-100	0			
4-Nitroaniline	1029	170	1333	0	77.2	19-124	0			
4-Nitrophenol	1037	170	1333	0	77.8	44-106	0			
Acenaphthene	978.7	6.7	1333	0	73.4	60-101	0			
Acenaphthylene	982	6.7	1333	0	73.7	59-101	0			
Anthracene	1063	6.7	1333	0	79.7	63-103	0			
Benzo(a)anthracene	1109	6.7	1333	0	83.2	66-102	0			
Benzo(a)pyrene	1088	6.7	1333	0	81.6	66-105	0			
Benzo(b)fluoranthene	1061	6.7	1333	0	79.6	67-105	0			
Benzo(g,h,i)perylene	1084	6.7	1333	0	81.3	59-110	0			
Benzo(k)fluoranthene	1043	6.7	1333	0	78.2	68-106	0			
Bis(2-chloroethoxy)methane	912	33	1333	0	68.4	54-102	0			
Bis(2-chloroethyl)ether	962.7	33	1333	0	72.2	51-101	0			
Bis(2-chloroisopropyl)ether	812.7	33	1333	0	61	50-101	0			
Bis(2-ethylhexyl)phthalate	1089	33	1333	0	81.7	63-114	0			
Butyl benzyl phthalate	1082	67	1333	0	81.2	59-107	0			
Carbazole	1064	33	1333	0	79.8	63-103	0			
Chrysene	1089	6.7	1333	0	81.7	66-105	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: 204174	Instrument ID SVMS9	Method: SW846 8270D						
Dibenzo(a,h)anthracene	1089	6.7	1333	0	81.7	61-109	0	
Dibenzofuran	1031	33	1333	0	77.3	61-101	0	
Diethyl phthalate	1095	33	1333	0	82.2	63-105	0	
Dimethyl phthalate	1059	33	1333	0	79.4	64-104	0	
Di-n-butyl phthalate	1101	33	1333	0	82.6	66-108	0	
Di-n-octyl phthalate	1126	33	1333	0	84.5	53-126	0	
Fluoranthene	1109	6.7	1333	0	83.2	66-105	0	
Fluorene	1050	6.7	1333	0	78.8	62-101	0	
Hexachlorobenzene	1087	33	1333	0	81.6	61-104	0	
Hexachlorobutadiene	999.3	33	1333	0	75	52-99	0	
Hexachlorocyclopentadiene	889.3	33	1333	0	66.7	39-106	0	
Hexachloroethane	960.7	33	1333	0	72.1	59-99	0	
Indeno(1,2,3-cd)pyrene	1134	6.7	1333	0	85.1	57-114	0	
Isophorone	891.3	170	1333	0	66.9	55-101	0	
Naphthalene	927.3	6.7	1333	0	69.6	54-99	0	
Nitrobenzene	900.7	170	1333	0	67.6	53-100	0	
N-Nitrosodi-n-propylamine	879.3	33	1333	0	66	52-104	0	
N-Nitrosodiphenylamine	1078	33	1333	0	80.9	61-104	0	
Pentachlorophenol	686.7	33	1333	0	51.5	35-100	0	
Phenanthrene	1059	6.7	1333	0	79.5	64-101	0	
Phenol	989.3	33	1333	0	74.2	51-107	0	
Pyrene	1087	6.7	1333	0	81.5	62-114	0	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>2471</i>	<i>0</i>	<i>3333</i>	<i>0</i>	<i>74.1</i>	<i>48-94</i>	<i>0</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>2292</i>	<i>0</i>	<i>3333</i>	<i>0</i>	<i>68.8</i>	<i>50-103</i>	<i>0</i>	
<i>Surr: 2-Fluorophenol</i>	<i>2233</i>	<i>0</i>	<i>3333</i>	<i>0</i>	<i>67</i>	<i>43-105</i>	<i>0</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>2416</i>	<i>0</i>	<i>3333</i>	<i>0</i>	<i>72.5</i>	<i>55-111</i>	<i>0</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>2143</i>	<i>0</i>	<i>3333</i>	<i>0</i>	<i>64.3</i>	<i>47-100</i>	<i>0</i>	
<i>Surr: Phenol-d6</i>	<i>2323</i>	<i>0</i>	<i>3333</i>	<i>0</i>	<i>69.7</i>	<i>49-110</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: 204174 Instrument ID SVMS9 Method: SW846 8270D

MS				Sample ID: 22092946-08B MS		Units: µg/Kg		Analysis Date: 10/3/2022 07:39 PM		
Client ID: DB-4 (1-3')		Run ID: SVMS9_221003A		SeqNo: 8863125		Prep Date: 10/3/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	803.6	32	1299	0	61.9	53-98	0			
1,2-Dichlorobenzene	750.3	32	1299	0	57.8	55-97	0			
1,3-Dichlorobenzene	760.7	32	1299	0	58.6	53-96	0			
1,4-Dichlorobenzene	753.6	32	1299	0	58	54-96	0			
2,4,5-Trichlorophenol	824.4	32	1299	0	63.5	54-98	0			
2,4,6-Trichlorophenol	860.7	32	1299	0	66.3	56-97	0			
2,4-Dichlorophenol	791.2	32	1299	0	60.9	54-99	0			
2,4-Dimethylphenol	667.2	32	1299	0	51.4	47-102	0			
2,4-Dinitrophenol	230	650	1299	0	17.7	10-100	0			J
2,4-Dinitrotoluene	886.1	32	1299	0	68.2	62-105	0			
2,6-Dinitrotoluene	876.3	32	1299	0	67.5	62-103	0			
2-Chloronaphthalene	814	6.5	1299	0	62.7	57-101	0			
2-Chlorophenol	780.2	32	1299	0	60.1	52-102	0			
2-Methylnaphthalene	820.5	6.5	1299	23.05	61.4	55-102	0			
2-Methylphenol	704.8	32	1299	0	54.3	54-103	0			
2-Nitroaniline	782.8	32	1299	0	60.3	57-103	0			
2-Nitrophenol	806.2	32	1299	0	62.1	52-102	0			
3&4-Methylphenol	728.2	32	1299	0	56.1	56-103	0			
3,3'-Dichlorobenzidine	519	160	1299	0	40	41-91	0			S
3-Nitroaniline	747.1	32	1299	0	57.5	35-107	0			
4,6-Dinitro-2-methylphenol	547.6	32	1299	0	42.2	42-104	0			
4-Bromophenyl phenyl ether	927	32	1299	0	71.4	63-104	0			
4-Chloro-3-methylphenol	812	32	1299	0	62.5	57-103	0			
4-Chloroaniline	624.9	65	1299	0	48.1	32-99	0			
4-Chlorophenyl phenyl ether	932.2	32	1299	0	71.8	62-100	0			
4-Nitroaniline	721.7	160	1299	0	55.6	19-124	0			
4-Nitrophenol	760.1	160	1299	0	58.5	44-106	0			
Acenaphthene	815.9	6.5	1299	0	62.8	60-101	0			
Acenaphthylene	843.9	6.5	1299	21.07	63.3	59-101	0			
Anthracene	919.2	6.5	1299	16.46	69.5	63-103	0			
Benzo(a)anthracene	1032	6.5	1299	86.27	72.8	66-102	0			
Benzo(a)pyrene	1037	6.5	1299	118.5	70.7	66-105	0			
Benzo(b)fluoranthene	1050	6.5	1299	152.1	69.2	67-105	0			
Benzo(g,h,i)perylene	972.5	6.5	1299	90.22	67.9	59-110	0			
Benzo(k)fluoranthene	914	6.5	1299	51.37	66.4	68-106	0			S
Bis(2-chloroethoxy)methane	732.1	32	1299	0	56.4	54-102	0			
Bis(2-chloroethyl)ether	651.6	32	1299	0	50.2	51-101	0			S
Bis(2-chloroisopropyl)ether	619.7	32	1299	0	47.7	50-101	0			S
Bis(2-ethylhexyl)phthalate	991.3	32	1299	59.27	71.8	63-114	0			
Butyl benzyl phthalate	954.9	65	1299	0	73.5	59-107	0			
Carbazole	891.9	32	1299	0	68.7	63-103	0			
Chrysene	1032	6.5	1299	115.9	70.5	66-105	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: 204174	Instrument ID SVMS9	Method: SW846 8270D						
Dibenzo(a,h)anthracene	920.5	6.5	1299	24.37	69	61-109	0	
Dibenzofuran	883.5	32	1299	0	68	61-101	0	
Diethyl phthalate	918.6	32	1299	0	70.7	63-105	0	
Dimethyl phthalate	856.8	32	1299	0	66	64-104	0	
Di-n-butyl phthalate	945.8	32	1299	0	72.8	66-108	0	
Di-n-octyl phthalate	1026	32	1299	0	79	53-126	0	
Fluoranthene	1138	6.5	1299	172.5	74.3	66-105	0	
Fluorene	902.3	6.5	1299	5.927	69	62-101	0	
Hexachlorobenzene	926.4	32	1299	0	71.3	61-104	0	
Hexachlorobutadiene	806.8	32	1299	0	62.1	52-99	0	
Hexachlorocyclopentadiene	597.7	32	1299	0	46	39-106	0	
Hexachloroethane	708.7	32	1299	0	54.6	59-99	0	
Indeno(1,2,3-cd)pyrene	1011	6.5	1299	87.59	71.1	57-114	0	
Isophorone	724.3	160	1299	0	55.8	55-101	0	
Naphthalene	760.7	6.5	1299	16.46	57.3	54-99	0	
Nitrobenzene	721.7	160	1299	0	55.6	53-100	0	
N-Nitrosodi-n-propylamine	698.3	32	1299	0	53.8	52-104	0	
N-Nitrosodiphenylamine	908.8	32	1299	0	70	61-104	0	
Pentachlorophenol	439.8	32	1299	0	33.9	35-100	0	
Phenanthrene	964	6.5	1299	67.17	69	64-101	0	
Phenol	766.6	32	1299	0	59	51-107	0	
Pyrene	1102	6.5	1299	156.7	72.8	62-114	0	
<i>Surr: 2,4,6-Tribromophenol</i>	2055	0	3248	0	63.3	48-94	0	
<i>Surr: 2-Fluorobiphenyl</i>	1922	0	3248	0	59.2	50-103	0	
<i>Surr: 2-Fluorophenol</i>	1727	0	3248	0	53.2	43-105	0	
<i>Surr: 4-Terphenyl-d14</i>	2054	0	3248	0	63.2	55-111	0	
<i>Surr: Nitrobenzene-d5</i>	1714	0	3248	0	52.8	47-100	0	
<i>Surr: Phenol-d6</i>	1806	0	3248	0	55.6	49-110	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: 204174 Instrument ID SVMS9 Method: SW846 8270D

MSD				Sample ID: 22092946-08B MSD			Units: µg/Kg		Analysis Date: 10/3/2022 08:03 PM		
Client ID: DB-4 (1-3')		Run ID: SVMS9_221003A		SeqNo: 8863126		Prep Date: 10/3/2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,2,4-Trichlorobenzene	890.6	32	1309	0	68	53-98	803.6	10.3	30		
1,2-Dichlorobenzene	833.6	32	1309	0	63.7	55-97	750.3	10.5	30		
1,3-Dichlorobenzene	834.9	32	1309	0	63.8	53-96	760.7	9.3	30		
1,4-Dichlorobenzene	842.1	32	1309	0	64.3	54-96	753.6	11.1	30		
2,4,5-Trichlorophenol	884.7	32	1309	0	67.6	54-98	824.4	7.06	30		
2,4,6-Trichlorophenol	891.9	32	1309	0	68.1	56-97	860.7	3.56	30		
2,4-Dichlorophenol	879.5	32	1309	0	67.2	54-99	791.2	10.6	30		
2,4-Dimethylphenol	738	32	1309	0	56.4	47-102	667.2	10.1	30		
2,4-Dinitrophenol	297.3	660	1309	0	22.7	10-100	230	0	30	J	
2,4-Dinitrotoluene	946.9	32	1309	0	72.3	62-105	886.1	6.64	30		
2,6-Dinitrotoluene	945.6	32	1309	0	72.2	62-103	876.3	7.6	30		
2-Chloronaphthalene	896.5	6.6	1309	0	68.5	57-101	814	9.65	30		
2-Chlorophenol	867	32	1309	0	66.2	52-102	780.2	10.5	30		
2-Methylnaphthalene	893.9	6.6	1309	23.05	66.5	55-102	820.5	8.56	30		
2-Methylphenol	780.6	32	1309	0	59.6	54-103	704.8	10.2	30		
2-Nitroaniline	881.4	32	1309	0	67.3	57-103	782.8	11.9	30		
2-Nitrophenol	905	32	1309	0	69.1	52-102	806.2	11.6	30		
3&4-Methylphenol	822.5	32	1309	0	62.8	56-103	728.2	12.2	30		
3,3'-Dichlorobenzidine	651.6	160	1309	0	49.8	41-91	519	22.6	30		
3-Nitroaniline	815.3	32	1309	0	62.3	35-107	747.1	8.73	30		
4,6-Dinitro-2-methylphenol	621.5	32	1309	0	47.5	42-104	547.6	12.6	30		
4-Bromophenyl phenyl ether	986.9	32	1309	0	75.4	63-104	927	6.26	30		
4-Chloro-3-methylphenol	888.6	32	1309	0	67.9	57-103	812	9.01	30		
4-Chloroaniline	744.6	66	1309	0	56.9	32-99	624.9	17.5	30		
4-Chlorophenyl phenyl ether	988.8	32	1309	0	75.5	62-100	932.2	5.9	30		
4-Nitroaniline	779.3	160	1309	0	59.5	19-124	721.7	7.67	30		
4-Nitrophenol	878.2	160	1309	0	67.1	44-106	760.1	14.4	30		
Acenaphthene	886.7	6.6	1309	0	67.7	60-101	815.9	8.31	30		
Acenaphthylene	918.1	6.6	1309	21.07	68.5	59-101	843.9	8.43	30		
Anthracene	956.7	6.6	1309	16.46	71.8	63-103	919.2	4	30		
Benzo(a)anthracene	1069	6.6	1309	86.27	75	66-102	1032	3.54	30		
Benzo(a)pyrene	1063	6.6	1309	118.5	72.1	66-105	1037	2.48	30		
Benzo(b)fluoranthene	1043	6.6	1309	152.1	68	67-105	1050	0.756	30		
Benzo(g,h,i)perylene	1007	6.6	1309	90.22	70	59-110	972.5	3.44	30		
Benzo(k)fluoranthene	949.5	6.6	1309	51.37	68.6	68-106	914	3.81	30		
Bis(2-chloroethoxy)methane	814	32	1309	0	62.2	54-102	732.1	10.6	30		
Bis(2-chloroethyl)ether	850	32	1309	0	64.9	51-101	651.6	26.4	30		
Bis(2-chloroisopropyl)ether	724.3	32	1309	0	55.3	50-101	619.7	15.6	30		
Bis(2-ethylhexyl)phthalate	1020	32	1309	59.27	73.3	63-114	991.3	2.81	30		
Butyl benzyl phthalate	1001	66	1309	0	76.5	59-107	954.9	4.74	30		
Carbazole	931.2	32	1309	0	71.1	63-103	891.9	4.31	30		
Chrysene	1038	6.6	1309	115.9	70.4	66-105	1032	0.614	30		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: 204174	Instrument ID SVMS9		Method: SW846 8270D							
Dibenzo(a,h)anthracene	979	6.6	1309	24.37	72.9	61-109	920.5	6.16	30	
Dibenzofuran	955.4	32	1309	0	73	61-101	883.5	7.83	30	
Diethyl phthalate	972.5	32	1309	0	74.3	63-105	918.6	5.7	30	
Dimethyl phthalate	939.7	32	1309	0	71.8	64-104	856.8	9.23	30	
Di-n-butyl phthalate	984.2	32	1309	0	75.2	66-108	945.8	3.98	30	
Di-n-octyl phthalate	1082	32	1309	0	82.7	53-126	1026	5.32	30	
Fluoranthene	1121	6.6	1309	172.5	72.4	66-105	1138	1.51	30	
Fluorene	968.5	6.6	1309	5.927	73.5	62-101	902.3	7.08	30	
Hexachlorobenzene	965.3	32	1309	0	73.7	61-104	926.4	4.11	30	
Hexachlorobutadiene	901.1	32	1309	0	68.8	52-99	806.8	11	30	
Hexachlorocyclopentadiene	591.3	32	1309	0	45.2	39-106	597.7	1.06	30	
Hexachloroethane	799.6	32	1309	0	61.1	59-99	708.7	12	30	
Indeno(1,2,3-cd)pyrene	1050	6.6	1309	87.59	73.5	57-114	1011	3.78	30	
Isophorone	795.7	160	1309	0	60.8	55-101	724.3	9.38	30	
Naphthalene	837.6	6.6	1309	16.46	62.7	54-99	760.7	9.62	30	
Nitrobenzene	812	160	1309	0	62	53-100	721.7	11.8	30	
N-Nitrosodi-n-propylamine	806.1	32	1309	0	61.6	52-104	698.3	14.3	30	
N-Nitrosodiphenylamine	945.6	32	1309	0	72.2	61-104	908.8	3.97	30	
Pentachlorophenol	499	32	1309	0	38.1	35-100	439.8	12.6	30	
Phenanthrene	985.6	6.6	1309	67.17	70.1	64-101	964	2.21	30	
Phenol	855.9	32	1309	0	65.4	51-107	766.6	11	30	
Pyrene	1100	6.6	1309	156.7	72	62-114	1102	0.205	30	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>2175</i>	<i>0</i>	<i>3274</i>	<i>0</i>	<i>66.4</i>	<i>48-94</i>	<i>2055</i>	<i>5.67</i>	<i>40</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>2090</i>	<i>0</i>	<i>3274</i>	<i>0</i>	<i>63.8</i>	<i>50-103</i>	<i>1922</i>	<i>8.41</i>	<i>40</i>	
<i>Surr: 2-Fluorophenol</i>	<i>1944</i>	<i>0</i>	<i>3274</i>	<i>0</i>	<i>59.4</i>	<i>43-105</i>	<i>1727</i>	<i>11.8</i>	<i>40</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>2153</i>	<i>0</i>	<i>3274</i>	<i>0</i>	<i>65.8</i>	<i>55-111</i>	<i>2054</i>	<i>4.71</i>	<i>40</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>1916</i>	<i>0</i>	<i>3274</i>	<i>0</i>	<i>58.5</i>	<i>47-100</i>	<i>1714</i>	<i>11.1</i>	<i>40</i>	
<i>Surr: Phenol-d6</i>	<i>1995</i>	<i>0</i>	<i>3274</i>	<i>0</i>	<i>60.9</i>	<i>49-110</i>	<i>1806</i>	<i>9.93</i>	<i>40</i>	

The following samples were analyzed in this batch:

22092946-01B	22092946-02B	22092946-03B
22092946-04B	22092946-05B	22092946-06B
22092946-07B	22092946-08B	22092946-09B
22092946-10B	22092946-11B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: 204209 Instrument ID SVMS8 Method: SW846 8270D

MBLK		Sample ID: SBLKS1-204209-204209				Units: µg/Kg		Analysis Date: 10/5/2022 01:38 PM		
Client ID:		Run ID: SVMS8_221005A		SeqNo: 8872062		Prep Date: 10/4/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	ND	33								
1,2-Dichlorobenzene	ND	33								
1,3-Dichlorobenzene	ND	33								
1,4-Dichlorobenzene	ND	33								
2,4,5-Trichlorophenol	ND	33								
2,4,6-Trichlorophenol	ND	33								
2,4-Dichlorophenol	ND	33								
2,4-Dimethylphenol	ND	33								
2,4-Dinitrophenol	ND	670								
2,4-Dinitrotoluene	ND	33								
2,6-Dinitrotoluene	ND	33								
2-Chloronaphthalene	ND	6.7								
2-Chlorophenol	ND	33								
2-Methylnaphthalene	ND	6.7								
2-Methylphenol	ND	33								
2-Nitroaniline	ND	33								
2-Nitrophenol	ND	33								
3&4-Methylphenol	ND	33								
3,3'-Dichlorobenzidine	ND	170								
3-Nitroaniline	ND	33								
4,6-Dinitro-2-methylphenol	ND	33								
4-Bromophenyl phenyl ether	ND	33								
4-Chloro-3-methylphenol	ND	33								
4-Chloroaniline	ND	67								
4-Chlorophenyl phenyl ether	ND	33								
4-Nitroaniline	ND	170								
4-Nitrophenol	ND	170								
Acenaphthene	ND	6.7								
Acenaphthylene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(g,h,i)perylene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Bis(2-chloroethoxy)methane	ND	33								
Bis(2-chloroethyl)ether	ND	33								
Bis(2-chloroisopropyl)ether	ND	33								
Bis(2-ethylhexyl)phthalate	ND	33								
Butyl benzyl phthalate	ND	67								
Carbazole	ND	33								
Chrysene	ND	6.7								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development

QC BATCH REPORT

Batch ID: 204209	Instrument ID SVMS8	Method: SW846 8270D						
Dibenzo(a,h)anthracene	ND	6.7						
Dibenzofuran	ND	33						
Diethyl phthalate	ND	33						
Dimethyl phthalate	ND	33						
Di-n-butyl phthalate	ND	33						
Di-n-octyl phthalate	ND	33						
Fluoranthene	ND	6.7						
Fluorene	ND	6.7						
Hexachlorobenzene	ND	33						
Hexachlorobutadiene	ND	33						
Hexachlorocyclopentadiene	ND	33						
Hexachloroethane	ND	33						
Indeno(1,2,3-cd)pyrene	ND	6.7						
Isophorone	ND	170						
Naphthalene	ND	6.7						
Nitrobenzene	ND	170						
N-Nitrosodi-n-propylamine	ND	33						
N-Nitrosodiphenylamine	ND	33						
Pentachlorophenol	ND	33						
Phenanthrene	ND	6.7						
Phenol	ND	33						
Pyrene	ND	6.7						
<i>Surr: 2,4,6-Tribromophenol</i>	2529	0	3333	0	75.9	48-94	0	
<i>Surr: 2-Fluorobiphenyl</i>	2589	0	3333	0	77.7	50-103	0	
<i>Surr: 2-Fluorophenol</i>	2604	0	3333	0	78.1	43-105	0	
<i>Surr: 4-Terphenyl-d14</i>	2717	0	3333	0	81.5	55-111	0	
<i>Surr: Nitrobenzene-d5</i>	2457	0	3333	0	73.7	47-100	0	
<i>Surr: Phenol-d6</i>	2789	0	3333	0	83.7	49-110	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: 204209 Instrument ID SVMS8 Method: SW846 8270D

LCS				Sample ID: SLCSS1-204209-204209		Units: µg/Kg		Analysis Date: 10/5/2022 01:59 PM		
Client ID:		Run ID: SVMS8_221005A		SeqNo: 8872063		Prep Date: 10/4/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1043	33	1333	0	78.3	53-98	0			
1,2-Dichlorobenzene	1074	33	1333	0	80.6	55-97	0			
1,3-Dichlorobenzene	1075	33	1333	0	80.6	53-96	0			
1,4-Dichlorobenzene	1048	33	1333	0	78.6	54-96	0			
2,4,5-Trichlorophenol	1197	33	1333	0	89.8	54-98	0			
2,4,6-Trichlorophenol	1139	33	1333	0	85.4	56-97	0			
2,4-Dichlorophenol	1152	33	1333	0	86.4	54-99	0			
2,4-Dimethylphenol	1123	33	1333	0	84.2	47-102	0			
2,4-Dinitrophenol	1041	670	1333	0	78.1	10-100	0			
2,4-Dinitrotoluene	1243	33	1333	0	93.2	62-105	0			
2,6-Dinitrotoluene	1213	33	1333	0	91	62-103	0			
2-Chloronaphthalene	1095	6.7	1333	0	82.2	57-101	0			
2-Chlorophenol	1165	33	1333	0	87.4	52-102	0			
2-Methylnaphthalene	1104	6.7	1333	0	82.8	55-102	0			
2-Methylphenol	1162	33	1333	0	87.2	54-103	0			
2-Nitroaniline	1187	33	1333	0	89.1	57-103	0			
2-Nitrophenol	1127	33	1333	0	84.6	52-102	0			
3&4-Methylphenol	1203	33	1333	0	90.3	56-103	0			
3,3'-Dichlorobenzidine	989.3	170	1333	0	74.2	41-91	0			
3-Nitroaniline	1117	33	1333	0	83.8	35-107	0			
4,6-Dinitro-2-methylphenol	1177	33	1333	0	88.3	42-104	0			
4-Bromophenyl phenyl ether	1221	33	1333	0	91.6	63-104	0			
4-Chloro-3-methylphenol	1175	33	1333	0	88.1	57-103	0			
4-Chloroaniline	920	67	1333	0	69	32-99	0			
4-Chlorophenyl phenyl ether	1162	33	1333	0	87.2	62-100	0			
4-Nitroaniline	1166	170	1333	0	87.5	19-124	0			
4-Nitrophenol	1155	170	1333	0	86.7	44-106	0			
Acenaphthene	1126	6.7	1333	0	84.5	60-101	0			
Acenaphthylene	1129	6.7	1333	0	84.7	59-101	0			
Anthracene	1186	6.7	1333	0	89	63-103	0			
Benzo(a)anthracene	1201	6.7	1333	0	90.1	66-102	0			
Benzo(a)pyrene	1157	6.7	1333	0	86.8	66-105	0			
Benzo(b)fluoranthene	1178	6.7	1333	0	88.4	67-105	0			
Benzo(g,h,i)perylene	878	6.7	1333	0	65.9	59-110	0			
Benzo(k)fluoranthene	1208	6.7	1333	0	90.6	68-106	0			
Bis(2-chloroethoxy)methane	1119	33	1333	0	83.9	54-102	0			
Bis(2-chloroethyl)ether	1108	33	1333	0	83.1	51-101	0			
Bis(2-chloroisopropyl)ether	1179	33	1333	0	88.5	50-101	0			
Bis(2-ethylhexyl)phthalate	1406	33	1333	0	105	63-114	0			
Butyl benzyl phthalate	1341	67	1333	0	101	59-107	0			
Carbazole	1186	33	1333	0	89	63-103	0			
Chrysene	1145	6.7	1333	0	85.9	66-105	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: 204209	Instrument ID SVMS8	Method: SW846 8270D						
Dibenzo(a,h)anthracene	930	6.7	1333	0	69.8	61-109	0	
Dibenzofuran	1151	33	1333	0	86.3	61-101	0	
Diethyl phthalate	1249	33	1333	0	93.7	63-105	0	
Dimethyl phthalate	1207	33	1333	0	90.6	64-104	0	
Di-n-butyl phthalate	1348	33	1333	0	101	66-108	0	
Di-n-octyl phthalate	1601	33	1333	0	120	53-126	0	
Fluoranthene	1171	6.7	1333	0	87.8	66-105	0	
Fluorene	1165	6.7	1333	0	87.4	62-101	0	
Hexachlorobenzene	1123	33	1333	0	84.3	61-104	0	
Hexachlorobutadiene	1055	33	1333	0	79.1	52-99	0	
Hexachlorocyclopentadiene	1053	33	1333	0	79	39-106	0	
Hexachloroethane	1069	33	1333	0	80.2	59-99	0	
Indeno(1,2,3-cd)pyrene	907.3	6.7	1333	0	68.1	57-114	0	
Isophorone	1187	170	1333	0	89	55-101	0	
Naphthalene	1069	6.7	1333	0	80.2	54-99	0	
Nitrobenzene	1094	170	1333	0	82.1	53-100	0	
N-Nitrosodi-n-propylamine	1191	33	1333	0	89.3	52-104	0	
N-Nitrosodiphenylamine	1193	33	1333	0	89.5	61-104	0	
Pentachlorophenol	1002	33	1333	0	75.2	35-100	0	
Phenanthrene	1160	6.7	1333	0	87	64-101	0	
Phenol	1182	33	1333	0	88.7	51-107	0	
Pyrene	1231	6.7	1333	0	92.4	62-114	0	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>2783</i>	<i>0</i>	<i>3333</i>	<i>0</i>	<i>83.5</i>	<i>48-94</i>	<i>0</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>2613</i>	<i>0</i>	<i>3333</i>	<i>0</i>	<i>78.4</i>	<i>50-103</i>	<i>0</i>	
<i>Surr: 2-Fluorophenol</i>	<i>2724</i>	<i>0</i>	<i>3333</i>	<i>0</i>	<i>81.7</i>	<i>43-105</i>	<i>0</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>2768</i>	<i>0</i>	<i>3333</i>	<i>0</i>	<i>83</i>	<i>55-111</i>	<i>0</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>2653</i>	<i>0</i>	<i>3333</i>	<i>0</i>	<i>79.6</i>	<i>47-100</i>	<i>0</i>	
<i>Surr: Phenol-d6</i>	<i>2963</i>	<i>0</i>	<i>3333</i>	<i>0</i>	<i>88.9</i>	<i>49-110</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: 204209 Instrument ID SVMS8 Method: SW846 8270D

MS				Sample ID: 22092729-11C MS			Units: µg/Kg		Analysis Date: 10/5/2022 02:19 PM		
Client ID:		Run ID: SVMS8_221005A		SeqNo: 8872064		Prep Date: 10/4/2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,2,4-Trichlorobenzene	808	33	1316	0	61.4	53-98	0				
1,2-Dichlorobenzene	808.6	33	1316	0	61.5	55-97	0				
1,3-Dichlorobenzene	821.1	33	1316	0	62.4	53-96	0				
1,4-Dichlorobenzene	811.3	33	1316	0	61.7	54-96	0				
2,4,5-Trichlorophenol	881.7	33	1316	0	67	54-98	0				
2,4,6-Trichlorophenol	836.3	33	1316	0	63.6	56-97	0				
2,4-Dichlorophenol	810.6	33	1316	0	61.6	54-99	0				
2,4-Dimethylphenol	709.9	33	1316	0	54	47-102	0				
2,4-Dinitrophenol	398.7	660	1316	0	30.3	10-100	0			J	
2,4-Dinitrotoluene	894.2	33	1316	0	68	62-105	0				
2,6-Dinitrotoluene	902.7	33	1316	0	68.6	62-103	0				
2-Chloronaphthalene	847.5	6.6	1316	0	64.4	57-101	0				
2-Chlorophenol	846.1	33	1316	0	64.3	52-102	0				
2-Methylnaphthalene	811.3	6.6	1316	0	61.7	55-102	0				
2-Methylphenol	759.3	33	1316	0	57.7	54-103	0				
2-Nitroaniline	914.6	33	1316	0	69.5	57-103	0				
2-Nitrophenol	842.2	33	1316	0	64	52-102	0				
3&4-Methylphenol	789.6	33	1316	0	60	56-103	0				
3,3'-Dichlorobenzidine	461.2	160	1316	0	35.1	41-91	0			S	
3-Nitroaniline	838.2	33	1316	0	63.7	35-107	0				
4,6-Dinitro-2-methylphenol	709.3	33	1316	0	53.9	42-104	0				
4-Bromophenyl phenyl ether	902.1	33	1316	0	68.6	63-104	0				
4-Chloro-3-methylphenol	798.8	33	1316	0	60.7	57-103	0				
4-Chloroaniline	723.1	66	1316	0	55	32-99	0				
4-Chlorophenyl phenyl ether	875.1	33	1316	0	66.5	62-100	0				
4-Nitroaniline	786.9	160	1316	0	59.8	19-124	0				
4-Nitrophenol	788.9	160	1316	0	60	44-106	0				
Acenaphthene	833	6.6	1316	0	63.3	60-101	0				
Acenaphthylene	853.4	6.6	1316	0	64.9	59-101	0				
Anthracene	904	6.6	1316	0	68.7	63-103	0				
Benzo(a)anthracene	895.5	6.6	1316	0	68.1	66-102	0				
Benzo(a)pyrene	871.8	6.6	1316	0	66.3	66-105	0				
Benzo(b)fluoranthene	843.5	6.6	1316	0	64.1	67-105	0			S	
Benzo(g,h,i)perylene	802.7	6.6	1316	0	61	59-110	0				
Benzo(k)fluoranthene	854.7	6.6	1316	0	65	68-106	0			S	
Bis(2-chloroethoxy)methane	823.8	33	1316	0	62.6	54-102	0				
Bis(2-chloroethyl)ether	839.6	33	1316	0	63.8	51-101	0				
Bis(2-chloroisopropyl)ether	875.1	33	1316	0	66.5	50-101	0				
Bis(2-ethylhexyl)phthalate	1010	33	1316	0	76.8	63-114	0				
Butyl benzyl phthalate	953.4	66	1316	0	72.5	59-107	0				
Carbazole	879.7	33	1316	0	66.9	63-103	0				
Chrysene	879.7	6.6	1316	0	66.9	66-105	0				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: 204209	Instrument ID SVMS8	Method: SW846 8270D						
Dibenzo(a,h)anthracene	832.3	6.6	1316	0	63.3	61-109	0	
Dibenzofuran	894.2	33	1316	0	68	61-101	0	
Diethyl phthalate	913.9	33	1316	0	69.5	63-105	0	
Dimethyl phthalate	908.6	33	1316	0	69.1	64-104	0	
Di-n-butyl phthalate	986.9	33	1316	0	75	66-108	0	
Di-n-octyl phthalate	1009	33	1316	0	76.7	53-126	0	
Fluoranthene	877.7	6.6	1316	0	66.7	66-105	0	
Fluorene	875.8	6.6	1316	0	66.6	62-101	0	
Hexachlorobenzene	864.6	33	1316	0	65.7	61-104	0	
Hexachlorobutadiene	775.7	33	1316	0	59	52-99	0	
Hexachlorocyclopentadiene	635.6	33	1316	0	48.3	39-106	0	
Hexachloroethane	802.7	33	1316	0	61	59-99	0	
Indeno(1,2,3-cd)pyrene	819.8	6.6	1316	0	62.3	57-114	0	
Isophorone	861.9	160	1316	0	65.5	55-101	0	
Naphthalene	804.7	6.6	1316	0	61.2	54-99	0	
Nitrobenzene	823.1	160	1316	0	62.6	53-100	0	
N-Nitrosodi-n-propylamine	863.9	33	1316	0	65.7	52-104	0	
N-Nitrosodiphenylamine	865.9	33	1316	0	65.8	61-104	0	
Pentachlorophenol	579.7	33	1316	0	44.1	35-100	0	
Phenanthrene	893.5	6.6	1316	0	67.9	64-101	0	
Phenol	822.5	33	1316	0	62.5	51-107	0	
Pyrene	882.3	6.6	1316	0	67.1	62-114	0	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>1966</i>	<i>0</i>	<i>3289</i>	<i>0</i>	<i>59.8</i>	<i>48-94</i>	<i>0</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>1976</i>	<i>0</i>	<i>3289</i>	<i>0</i>	<i>60.1</i>	<i>50-103</i>	<i>0</i>	
<i>Surr: 2-Fluorophenol</i>	<i>1866</i>	<i>0</i>	<i>3289</i>	<i>0</i>	<i>56.7</i>	<i>43-105</i>	<i>0</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>1947</i>	<i>0</i>	<i>3289</i>	<i>0</i>	<i>59.2</i>	<i>55-111</i>	<i>0</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>1956</i>	<i>0</i>	<i>3289</i>	<i>0</i>	<i>59.5</i>	<i>47-100</i>	<i>0</i>	
<i>Surr: Phenol-d6</i>	<i>1977</i>	<i>0</i>	<i>3289</i>	<i>0</i>	<i>60.1</i>	<i>49-110</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: 204209 Instrument ID SVMS8 Method: SW846 8270D

MSD				Sample ID: 22092729-11C MSD		Units: µg/Kg		Analysis Date: 10/5/2022 02:40 PM		
Client ID:		Run ID: SVMS8_221005A		SeqNo: 8872065		Prep Date: 10/4/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	917	32	1311	0	70	53-98	808	12.6	30	
1,2-Dichlorobenzene	943.2	32	1311	0	72	55-97	808.6	15.4	30	
1,3-Dichlorobenzene	953	32	1311	0	72.7	53-96	821.1	14.9	30	
1,4-Dichlorobenzene	943.2	32	1311	0	72	54-96	811.3	15	30	
2,4,5-Trichlorophenol	1013	32	1311	0	77.3	54-98	881.7	13.9	30	
2,4,6-Trichlorophenol	923.5	32	1311	0	70.5	56-97	836.3	9.92	30	
2,4-Dichlorophenol	965.5	32	1311	0	73.7	54-99	810.6	17.4	30	
2,4-Dimethylphenol	846.2	32	1311	0	64.6	47-102	709.9	17.5	30	
2,4-Dinitrophenol	437.2	660	1311	0	33.4	10-100	398.7	0	30	J
2,4-Dinitrotoluene	1030	32	1311	0	78.6	62-105	894.2	14.2	30	
2,6-Dinitrotoluene	1017	32	1311	0	77.6	62-103	902.7	11.9	30	
2-Chloronaphthalene	943.2	6.6	1311	0	72	57-101	847.5	10.7	30	
2-Chlorophenol	987.8	32	1311	0	75.4	52-102	846.1	15.4	30	
2-Methylnaphthalene	958.3	6.6	1311	0	73.1	55-102	811.3	16.6	30	
2-Methylphenol	920.3	32	1311	0	70.2	54-103	759.3	19.2	30	
2-Nitroaniline	1042	32	1311	0	79.5	57-103	914.6	13	30	
2-Nitrophenol	991.7	32	1311	0	75.7	52-102	842.2	16.3	30	
3&4-Methylphenol	953	32	1311	0	72.7	56-103	789.6	18.8	30	
3,3'-Dichlorobenzidine	508	160	1311	0	38.8	41-91	461.2	9.65	30	S
3-Nitroaniline	928.8	32	1311	0	70.9	35-107	838.2	10.2	30	
4,6-Dinitro-2-methylphenol	811.5	32	1311	0	61.9	42-104	709.3	13.4	30	
4-Bromophenyl phenyl ether	1043	32	1311	0	79.6	63-104	902.1	14.5	30	
4-Chloro-3-methylphenol	943.9	32	1311	0	72	57-103	798.8	16.7	30	
4-Chloroaniline	798.3	66	1311	0	60.9	32-99	723.1	9.89	30	
4-Chlorophenyl phenyl ether	1000	32	1311	0	76.3	62-100	875.1	13.3	30	
4-Nitroaniline	871.1	160	1311	0	66.5	19-124	786.9	10.2	30	
4-Nitrophenol	903.9	160	1311	0	69	44-106	788.9	13.6	30	
Acenaphthene	956.3	6.6	1311	0	73	60-101	833	13.8	30	
Acenaphthylene	964.2	6.6	1311	0	73.6	59-101	853.4	12.2	30	
Anthracene	1026	6.6	1311	0	78.3	63-103	904	12.6	30	
Benzo(a)anthracene	1026	6.6	1311	0	78.3	66-102	895.5	13.6	30	
Benzo(a)pyrene	1001	6.6	1311	0	76.4	66-105	871.8	13.8	30	
Benzo(b)fluoranthene	972	6.6	1311	0	74.2	67-105	843.5	14.2	30	
Benzo(g,h,i)perylene	879.6	6.6	1311	0	67.1	59-110	802.7	9.14	30	
Benzo(k)fluoranthene	991.7	6.6	1311	0	75.7	68-106	854.7	14.8	30	
Bis(2-chloroethoxy)methane	958.9	32	1311	0	73.2	54-102	823.8	15.2	30	
Bis(2-chloroethyl)ether	986.5	32	1311	0	75.3	51-101	839.6	16.1	30	
Bis(2-chloroisopropyl)ether	1027	32	1311	0	78.4	50-101	875.1	16	30	
Bis(2-ethylhexyl)phthalate	1229	32	1311	0	93.8	63-114	1010	19.6	30	
Butyl benzyl phthalate	1168	66	1311	0	89.1	59-107	953.4	20.2	30	
Carbazole	972.7	32	1311	0	74.2	63-103	879.7	10	30	
Chrysene	981.2	6.6	1311	0	74.9	66-105	879.7	10.9	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: 204209	Instrument ID SVMS8	Method: SW846 8270D								
Dibenzo(a,h)anthracene	899.3	6.6	1311	0	68.6	61-109	832.3	7.73	30	
Dibenzofuran	990.4	32	1311	0	75.6	61-101	894.2	10.2	30	
Diethyl phthalate	1047	32	1311	0	79.9	63-105	913.9	13.6	30	
Dimethyl phthalate	1021	32	1311	0	77.9	64-104	908.6	11.7	30	
Di-n-butyl phthalate	1167	32	1311	0	89	66-108	986.9	16.7	30	
Di-n-octyl phthalate	1310	32	1311	0	100	53-126	1009	25.9	30	
Fluoranthene	986.5	6.6	1311	0	75.3	66-105	877.7	11.7	30	
Fluorene	1013	6.6	1311	0	77.3	62-101	875.8	14.6	30	
Hexachlorobenzene	977.9	32	1311	0	74.6	61-104	864.6	12.3	30	
Hexachlorobutadiene	928.1	32	1311	0	70.8	52-99	775.7	17.9	30	
Hexachlorocyclopentadiene	770.2	32	1311	0	58.8	39-106	635.6	19.1	30	
Hexachloroethane	936.6	32	1311	0	71.5	59-99	802.7	15.4	30	
Indeno(1,2,3-cd)pyrene	907.2	6.6	1311	0	69.2	57-114	819.8	10.1	30	
Isophorone	1026	160	1311	0	78.3	55-101	861.9	17.4	30	
Naphthalene	949.1	6.6	1311	0	72.4	54-99	804.7	16.5	30	
Nitrobenzene	971.4	160	1311	0	74.1	53-100	823.1	16.5	30	
N-Nitrosodi-n-propylamine	1010	32	1311	0	77.1	52-104	863.9	15.6	30	
N-Nitrosodiphenylamine	987.1	32	1311	0	75.3	61-104	865.9	13.1	30	
Pentachlorophenol	681	32	1311	0	52	35-100	579.7	16.1	30	
Phenanthrene	1013	6.6	1311	0	77.3	64-101	893.5	12.6	30	
Phenol	964.8	32	1311	0	73.6	51-107	822.5	15.9	30	
Pyrene	1067	6.6	1311	0	81.4	62-114	882.3	19	30	
<i>Surr: 2,4,6-Tribromophenol</i>	2210	0	3277	0	67.4	48-94	1966	11.7	40	
<i>Surr: 2-Fluorobiphenyl</i>	2241	0	3277	0	68.4	50-103	1976	12.6	40	
<i>Surr: 2-Fluorophenol</i>	2187	0	3277	0	66.7	43-105	1866	15.8	40	
<i>Surr: 4-Terphenyl-d14</i>	2310	0	3277	0	70.5	55-111	1947	17.1	40	
<i>Surr: Nitrobenzene-d5</i>	2345	0	3277	0	71.6	47-100	1956	18.1	40	
<i>Surr: Phenol-d6</i>	2331	0	3277	0	71.1	49-110	1977	16.5	40	

The following samples were analyzed in this batch:

22092946-12B	22092946-13B	22092946-14B
22092946-15B	22092946-16B	22092946-17B
22092946-18B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: 204177 Instrument ID VMS10 Method: SW8260C

MBLK		Sample ID: MBLK-204177-204177			Units: µg/Kg-dry		Analysis Date: 10/5/2022 10:40 PM			
Client ID:		Run ID: VMS10_221005B			SeqNo: 8870036		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	30								
1,1,1-Trichloroethane	ND	30								
1,1,2,2-Tetrachloroethane	ND	30								
1,1,2-Trichloroethane	ND	30								
1,1,2-Trichlorotrifluoroethane	ND	30								
1,1-Dichloroethane	ND	30								
1,1-Dichloroethene	ND	30								
1,2,3-Trichloropropane	ND	30								
1,2,4-Trichlorobenzene	ND	100								
1,2,4-Trimethylbenzene	ND	30								
1,2-Dibromo-3-chloropropane	ND	100								
1,2-Dibromoethane	ND	30								
1,2-Dichlorobenzene	ND	30								
1,2-Dichloroethane	ND	100								
1,2-Dichloropropane	ND	30								
1,3,5-Trimethylbenzene	ND	100								
1,3-Dichlorobenzene	ND	30								
1,4-Dichlorobenzene	ND	30								
2-Butanone	ND	200								
2-Hexanone	ND	30								
2-Methylnaphthalene	ND	100								
4-Methyl-2-pentanone	ND	30								
Acetone	ND	100								
Acrylonitrile	ND	100								
Benzene	ND	30								
Bromodichloromethane	ND	30								
Bromoform	ND	30								
Bromomethane	ND	100								
Carbon disulfide	ND	30								
Carbon tetrachloride	ND	30								
Chlorobenzene	ND	30								
Chloroethane	ND	100								
Chloroform	ND	30								
Chloromethane	ND	100								
cis-1,2-Dichloroethene	ND	30								
cis-1,3-Dichloropropene	ND	30								
Dibromochloromethane	ND	30								
Dibromomethane	ND	30								
Dichlorodifluoromethane	ND	100								
Diethyl ether	ND	30								
Ethylbenzene	ND	30								
Hexachloroethane	ND	100								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
Work Order: 22092946
Project: Renovare Development

QC BATCH REPORT

Batch ID: 204177	Instrument ID VMS10	Method: SW8260C						
Isopropylbenzene	ND	30						
m,p-Xylene	ND	60						
Methyl tert-butyl ether	ND	30						
Methylene chloride	ND	250						
Naphthalene	ND	100						
n-Propylbenzene	ND	30						
o-Xylene	ND	30						
Styrene	ND	30						
Tetrachloroethene	ND	30						
Toluene	ND	30						
trans-1,2-Dichloroethene	ND	30						
trans-1,3-Dichloropropene	ND	30						
Trichloroethene	ND	30						
Trichlorofluoromethane	ND	30						
Vinyl acetate	ND	250						
Vinyl chloride	ND	30						
Xylenes, Total	ND	90						
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1026</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>103</i>	<i>80-120</i>	<i>0</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>992</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.2</i>	<i>80-120</i>	<i>0</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>822</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>82.2</i>	<i>80-120</i>	<i>0</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>985.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98.6</i>	<i>80-120</i>	<i>0</i>	<i>0</i>

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: **204177** Instrument ID **VMS10** Method: **SW8260C**

LCS		Sample ID: LCS-204177-204177				Units: µg/Kg-dry		Analysis Date: 10/5/2022 09:50 PM		
Client ID:		Run ID: VMS10_221005B		SeqNo: 8870034		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	849	30	1000	0	84.9	72-120	0			
1,1,1-Trichloroethane	909.5	30	1000	0	91	75-121	0			
1,1,2,2-Tetrachloroethane	952.5	30	1000	0	95.2	79-125	0			
1,1,2-Trichloroethane	979	30	1000	0	97.9	80-123	0			
1,1,2-Trichlorotrifluoroethane	1018	30	1000	0	102	62-129	0			
1,1-Dichloroethane	1028	30	1000	0	103	74-124	0			
1,1-Dichloroethene	1039	30	1000	0	104	68-131	0			
1,2,3-Trichloropropane	980.5	30	1000	0	98	77-121	0			
1,2,4-Trichlorobenzene	948	100	1000	0	94.8	63-130	0			
1,2,4-Trimethylbenzene	951	30	1000	0	95.1	64-126	0			
1,2-Dibromo-3-chloropropane	863	100	1000	0	86.3	55-135	0			
1,2-Dibromoethane	963	30	1000	0	96.3	63-155	0			
1,2-Dichlorobenzene	963	30	1000	0	96.3	77-122	0			
1,2-Dichloroethane	982.5	100	1000	0	98.2	70-130	0			
1,2-Dichloropropane	991.5	30	1000	0	99.2	71-130	0			
1,3,5-Trimethylbenzene	963	100	1000	0	96.3	66-130	0			
1,3-Dichlorobenzene	962	30	1000	0	96.2	78-121	0			
1,4-Dichlorobenzene	973.5	30	1000	0	97.4	78-122	0			
2-Butanone	1002	200	1000	0	100	47-164	0			
2-Hexanone	984.5	30	1000	0	98.4	70-137	0			
2-Methylnaphthalene	940	100	1000	0	94	50-150	0			
4-Methyl-2-pentanone	1274	30	1000	0	127	57-200	0			
Acetone	1002	100	1000	0	100	52-190	0			
Acrylonitrile	1054	100	1000	0	105	61-142	0			
Benzene	972.5	30	1000	0	97.2	78-122	0			
Bromodichloromethane	961.5	30	1000	0	96.2	75-125	0			
Bromoform	779	30	1000	0	77.9	59-120	0			
Bromomethane	810	100	1000	0	81	31-169	0			
Carbon disulfide	1042	30	1000	0	104	60-163	0			
Carbon tetrachloride	948	30	1000	0	94.8	69-123	0			
Chlorobenzene	963	30	1000	0	96.3	79-120	0			
Chloroethane	1120	100	1000	0	112	38-132	0			
Chloroform	989.5	30	1000	0	99	72-122	0			
Chloromethane	802.5	100	1000	0	80.2	24-119	0			
cis-1,2-Dichloroethene	1021	30	1000	0	102	74-125	0			
cis-1,3-Dichloropropene	1002	30	1000	0	100	62-124	0			
Dibromochloromethane	797.5	30	1000	0	79.8	57-123	0			
Dibromomethane	914	30	1000	0	91.4	70-128	0			
Dichlorodifluoromethane	646.5	100	1000	0	64.6	28-137	0			
Diethyl ether	1031	30	1000	0	103	65-159	0			
Ethylbenzene	957.5	30	1000	0	95.8	75-121	0			
Hexachloroethane	814.5	100	1000	0	81.4	57-134	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: 204177	Instrument ID VMS10		Method: SW8260C					
Isopropylbenzene	965.5	30	1000	0	96.6	74-121	0	
m,p-Xylene	1990	60	2000	0	99.5	67-129	0	
Methyl tert-butyl ether	1015	30	1000	0	102	79-139	0	
Methylene chloride	1064	250	1000	0	106	62-135	0	
Naphthalene	902	100	1000	0	90.2	53-135	0	
n-Propylbenzene	954.5	30	1000	0	95.4	65-128	0	
o-Xylene	1011	30	1000	0	101	75-120	0	
Styrene	930	30	1000	0	93	74-126	0	
Tetrachloroethene	993.5	30	1000	0	99.4	76-128	0	
Toluene	967.5	30	1000	0	96.8	76-120	0	
trans-1,2-Dichloroethene	1040	30	1000	0	104	72-127	0	
trans-1,3-Dichloropropene	933	30	1000	0	93.3	66-120	0	
Trichloroethene	974	30	1000	0	97.4	75-122	0	
Trichlorofluoromethane	858.5	30	1000	0	85.8	51-115	0	
Vinyl chloride	826.5	30	1000	0	82.6	43-128	0	
Xylenes, Total	3002	90	3000	0	100	67-129	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>977.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>97.8</i>	<i>80-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>1012</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>80-120</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>1001</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>100</i>	<i>80-120</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>997</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.7</i>	<i>80-120</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: 204177 Instrument ID VMS10 Method: SW8260C

MS				Sample ID: 22092946-18A MS		Units: µg/Kg-dry		Analysis Date: 10/6/2022 04:30 AM		
Client ID: DB-14 (1-3')			Run ID: VMS10_221005B		SeqNo: 8870057		Prep Date: 10/3/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	745.9	34	1149	0	64.9	72-120	0			S
1,1,1-Trichloroethane	871.2	34	1149	0	75.8	75-121	0			
1,1,2,2-Tetrachloroethane	602.8	34	1149	0	52.5	79-125	0			S
1,1,2-Trichloroethane	1007	34	1149	0	87.6	80-123	0			
1,1,2-Trichlorotrifluoroethane	963.2	34	1149	0	83.8	62-129	0			
1,1-Dichloroethane	678.1	34	1149	0	59	74-124	0			S
1,1-Dichloroethene	912	34	1149	0	79.4	68-131	0			
1,2,3-Trichloropropane	1085	34	1149	0	94.4	77-121	0			
1,2,4-Trichlorobenzene	933.3	110	1149	0	81.2	63-130	0			
1,2,4-Trimethylbenzene	1019	34	1149	0	88.7	64-126	0			
1,2-Dibromo-3-chloropropane	713.2	110	1149	0	62.1	55-135	0			
1,2-Dibromoethane	943.6	34	1149	0	82.1	63-155	0			
1,2-Dichlorobenzene	982.1	34	1149	0	85.5	77-122	0			
1,2-Dichloroethane	1023	110	1149	0	89	70-130	0			
1,2-Dichloropropane	995.9	34	1149	0	86.7	71-130	0			
1,3,5-Trimethylbenzene	1009	110	1149	0	87.8	66-130	0			
1,3-Dichlorobenzene	948.2	34	1149	0	82.5	78-121	0			
1,4-Dichlorobenzene	957.4	34	1149	0	83.3	78-122	0			
2-Butanone	3492	230	1149	0	304	47-164	0			S
2-Hexanone	1254	34	1149	0	109	70-137	0			
2-Methylnaphthalene	1042	110	1149	45.4	86.8	50-150	0			
4-Methyl-2-pentanone	1167	34	1149	0	101	57-200	0			
Acetone	2550	110	1149	0	222	52-190	0			S
Acrylonitrile	1156	110	1149	0	101	61-142	0			
Benzene	1015	34	1149	0	88.3	78-122	0			
Bromodichloromethane	783.9	34	1149	0	68.2	75-125	0			S
Bromoform	689.6	34	1149	0	60	59-120	0			
Bromomethane	944.2	110	1149	0	82.2	31-169	0			
Carbon disulfide	697.1	34	1149	0	60.7	60-163	0			
Carbon tetrachloride	681.6	34	1149	0	59.3	69-123	0			S
Chlorobenzene	1003	34	1149	0	87.3	79-120	0			
Chloroethane	589	110	1149	0	51.3	38-132	0			
Chloroform	902.2	34	1149	0	78.5	72-122	0			
Chloromethane	604.6	110	1149	0	52.6	24-119	0			
cis-1,2-Dichloroethene	848.8	34	1149	0	73.9	74-125	0			S
cis-1,3-Dichloropropene	876.9	34	1149	0	76.3	62-124	0			
Dibromochloromethane	650	34	1149	0	56.6	57-123	0			S
Dibromomethane	911.4	34	1149	0	79.3	70-128	0			
Dichlorodifluoromethane	529.8	110	1149	0	46.1	28-137	0			
Diethyl ether	1017	34	1149	0	88.5	65-159	0			
Ethylbenzene	997.1	34	1149	0	86.8	75-121	0			
Hexachloroethane	693.1	110	1149	0	60.3	57-134	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: 204177	Instrument ID VMS10		Method: SW8260C					
Isopropylbenzene	1028	34	1149	0	89.5	74-121	0	
m,p-Xylene	2101	69	2299	0	91.4	67-129	0	
Methyl tert-butyl ether	1066	34	1149	0	92.8	79-139	0	
Methylene chloride	987.3	290	1149	0	85.9	62-135	0	
Naphthalene	980.4	110	1149	27.58	82.9	53-135	0	
n-Propylbenzene	974.6	34	1149	0	84.8	65-128	0	
o-Xylene	1084	34	1149	0	94.3	75-120	0	
Styrene	960.3	34	1149	0	83.6	74-126	0	
Tetrachloroethene	1906	34	1149	0	166	76-128	0	S
Toluene	990.2	34	1149	0	86.2	76-120	0	
trans-1,2-Dichloroethene	955.1	34	1149	0	83.1	72-127	0	
trans-1,3-Dichloropropene	801.1	34	1149	0	69.7	66-120	0	
Trichloroethene	1237	34	1149	0	108	75-122	0	
Trichlorofluoromethane	1060	34	1149	0	92.2	51-115	0	
Vinyl chloride	824.7	34	1149	0	71.8	43-128	0	
Xylenes, Total	3185	100	3448	0	92.4	67-129	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	1135	0	1149	0	98.8	80-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	1188	0	1149	0	103	80-120	0	
<i>Surr: Dibromofluoromethane</i>	895.3	0	1149	0	77.9	80-120	0	S
<i>Surr: Toluene-d8</i>	1136	0	1149	0	98.9	80-120	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: 204177 Instrument ID VMS10 Method: SW8260C

MSD				Sample ID: 22092946-18A MSD			Units: µg/Kg-dry		Analysis Date: 10/6/2022 04:47 AM		
Client ID: DB-14 (1-3')			Run ID: VMS10_221005B		SeqNo: 8870058		Prep Date: 10/3/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1,2-Tetrachloroethane	851.7	34	1149	0	74.1	72-120	745.9	13.2	30		
1,1,1-Trichloroethane	974.1	34	1149	0	84.8	75-121	871.2	11.1	30		
1,1,2,2-Tetrachloroethane	690.8	34	1149	0	60.1	79-125	602.8	13.6	30	S	
1,1,2-Trichloroethane	1115	34	1149	0	97	80-123	1007	10.2	30		
1,1,2-Trichlorotrifluoroethane	1035	34	1149	0	90	62-129	963.2	7.19	30		
1,1-Dichloroethane	765.5	34	1149	0	66.6	74-124	678.1	12.1	30	S	
1,1-Dichloroethene	1048	34	1149	0	91.2	68-131	912	13.9	30		
1,2,3-Trichloropropane	1138	34	1149	0	99.1	77-121	1085	4.81	30		
1,2,4-Trichlorobenzene	1037	110	1149	0	90.3	63-130	933.3	10.6	30		
1,2,4-Trimethylbenzene	1126	34	1149	0	98	64-126	1019	9.96	30		
1,2-Dibromo-3-chloropropane	785	110	1149	0	68.3	55-135	713.2	9.59	30		
1,2-Dibromoethane	1052	34	1149	0	91.5	63-155	943.6	10.9	30		
1,2-Dichlorobenzene	1099	34	1149	0	95.7	77-122	982.1	11.3	30		
1,2-Dichloroethane	1149	110	1149	0	100	70-130	1023	11.6	30		
1,2-Dichloropropane	1150	34	1149	0	100	71-130	995.9	14.4	30		
1,3,5-Trimethylbenzene	1100	110	1149	0	95.8	66-130	1009	8.72	30		
1,3-Dichlorobenzene	1088	34	1149	0	94.6	78-121	948.2	13.7	30		
1,4-Dichlorobenzene	1068	34	1149	0	93	78-122	957.4	11	30		
2-Butanone	3314	230	1149	0	288	47-164	3492	5.23	30	S	
2-Hexanone	1343	34	1149	0	117	70-137	1254	6.86	30		
2-Methylnaphthalene	1158	110	1149	45.4	96.8	50-150	1042	10.5	30		
4-Methyl-2-pentanone	1165	34	1149	0	101	57-200	1167	0.0986	30		
Acetone	2362	110	1149	0	206	52-190	2550	7.67	30	S	
Acrylonitrile	1185	110	1149	0	103	61-142	1156	2.5	30		
Benzene	1137	34	1149	0	99	78-122	1015	11.4	30		
Bromodichloromethane	901.1	34	1149	0	78.4	75-125	783.9	13.9	30		
Bromoform	778.7	34	1149	0	67.8	59-120	689.6	12.1	30		
Bromomethane	972.9	110	1149	0	84.7	31-169	944.2	3	30		
Carbon disulfide	767.2	34	1149	0	66.8	60-163	697.1	9.58	30		
Carbon tetrachloride	795.3	34	1149	0	69.2	69-123	681.6	15.4	30		
Chlorobenzene	1109	34	1149	0	96.5	79-120	1003	9.96	30		
Chloroethane	687.3	110	1149	0	59.8	38-132	589	15.4	30		
Chloroform	981.5	34	1149	0	85.4	72-122	902.2	8.42	30		
Chloromethane	686.7	110	1149	0	59.8	24-119	604.6	12.7	30		
cis-1,2-Dichloroethene	1202	34	1149	0	105	74-125	848.8	34.5	30	R	
cis-1,3-Dichloropropene	972.3	34	1149	0	84.6	62-124	876.9	10.3	30		
Dibromochloromethane	756.8	34	1149	0	65.9	57-123	650	15.2	30		
Dibromomethane	978.1	34	1149	0	85.1	70-128	911.4	7.06	30		
Dichlorodifluoromethane	574.1	110	1149	0	50	28-137	529.8	8.02	30		
Diethyl ether	1110	34	1149	0	96.6	65-159	1017	8.7	30		
Ethylbenzene	1115	34	1149	0	97.1	75-121	997.1	11.2	30		
Hexachloroethane	779.8	110	1149	0	67.9	57-134	693.1	11.8	30		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: 204177	Instrument ID VMS10		Method: SW8260C							
Isopropylbenzene	1119	34	1149	0	97.4	74-121	1028	8.46	30	
m,p-Xylene	2290	69	2299	0	99.6	67-129	2101	8.61	30	
Methyl tert-butyl ether	1137	34	1149	0	98.9	79-139	1066	6.42	30	
Methylene chloride	1095	290	1149	0	95.3	62-135	987.3	10.3	30	
Naphthalene	1086	110	1149	27.58	92.1	53-135	980.4	10.2	30	
n-Propylbenzene	1082	34	1149	0	94.1	65-128	974.6	10.4	30	
o-Xylene	1170	34	1149	0	102	75-120	1084	7.65	30	
Styrene	1072	34	1149	0	93.3	74-126	960.3	11	30	
Tetrachloroethene	2055	34	1149	0	179	76-128	1906	7.55	30	S
Toluene	1105	34	1149	0	96.1	76-120	990.2	11	30	
trans-1,2-Dichloroethene	1050	34	1149	0	91.4	72-127	955.1	9.46	30	
trans-1,3-Dichloropropene	928.1	34	1149	0	80.8	66-120	801.1	14.7	30	
Trichloroethene	1406	34	1149	0	122	75-122	1237	12.8	30	S
Trichlorofluoromethane	1176	34	1149	0	102	51-115	1060	10.4	30	
Vinyl chloride	925.8	34	1149	0	80.6	43-128	824.7	11.6	30	
Xylenes, Total	3460	100	3448	0	100	67-129	3185	8.29	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	1155	0	1149	0	101	80-120	1135	1.76	30	
<i>Surr: 4-Bromofluorobenzene</i>	1212	0	1149	0	105	80-120	1188	2.01	30	
<i>Surr: Dibromofluoromethane</i>	913.2	0	1149	0	79.5	80-120	895.3	1.97	30	S
<i>Surr: Toluene-d8</i>	1147	0	1149	0	99.8	80-120	1136	0.957	30	

The following samples were analyzed in this batch:

22092946-01A	22092946-02A	22092946-03A
22092946-04A	22092946-05A	22092946-06A
22092946-07A	22092946-08A	22092946-09A
22092946-10A	22092946-11A	22092946-12A
22092946-13A	22092946-14A	22092946-15A
22092946-16A	22092946-17A	22092946-18A
22092946-19A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: **R354882** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R354882				Units: % of sample		Analysis Date: 10/3/2022 02:59 PM		
Client ID:		Run ID: MOIST_221003C		SeqNo: 8861584		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture ND 0.10

LCS		Sample ID: LCS-R354882				Units: % of sample		Analysis Date: 10/3/2022 02:59 PM		
Client ID:		Run ID: MOIST_221003C		SeqNo: 8861583		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 99.99 0.10 100 0 100 98-102 0

DUP		Sample ID: 22092935-01A DUP				Units: % of sample		Analysis Date: 10/3/2022 02:59 PM		
Client ID:		Run ID: MOIST_221003C		SeqNo: 8861565		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 8.51 0.10 0 0 0 0-0 8.51 0 10

DUP		Sample ID: 22092946-05B DUP				Units: % of sample		Analysis Date: 10/3/2022 02:59 PM		
Client ID: DB-1 (1-3')		Run ID: MOIST_221003C		SeqNo: 8861573		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 14.44 0.10 0 0 0 0-0 13.95 3.45 10

The following samples were analyzed in this batch:

22092946-01B	22092946-02B	22092946-03B
22092946-04B	22092946-05B	22092946-06B
22092946-07B	22092946-08B	22092946-09B
22092946-10B	22092946-11B	22092946-12B
22092946-13B	22092946-14B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
 Work Order: 22092946
 Project: Renovare Development

QC BATCH REPORT

Batch ID: **R354883** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R354883				Units: % of sample		Analysis Date: 10/3/2022 03:38 PM		
Client ID:		Run ID: MOIST_221003D		SeqNo: 8861597		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	ND	0.10								

LCS		Sample ID: LCS-R354883				Units: % of sample		Analysis Date: 10/3/2022 03:38 PM		
Client ID:		Run ID: MOIST_221003D		SeqNo: 8861596		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.10	100	0	100	98-102	0			

DUP		Sample ID: 22092946-15B DUP				Units: % of sample		Analysis Date: 10/3/2022 03:38 PM		
Client ID: DB-11 (3-5')		Run ID: MOIST_221003D		SeqNo: 8861587		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	9.31	0.10	0	0	0	0-0	10.16	8.73	10	

The following samples were analyzed in this batch:

22092946-15B	22092946-16B	22092946-17B
22092946-18B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Cincinnati, OH
+1 513 733 5336
Everett, WA
+1 425 356 2600

Fort Collins, CO
+1 970 490 1511
Holland, MI
+1 616 399 6070

Chain of Custody Form

Houston, TX
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Middletown, PA
+1 717 944 5541

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South Charleston, WV
+1 304 356 3168
York, PA
+1 717 505 5280

Page 1 of 2

COC ID: **261505**

Customer Information

Project Information

ALS Project Manager:

ALS Work Order #:

Parameter/Method Request for Analysis

Purchase Order
Work Order
Company Name
Send Report To
Address
City/State/Zip
Phone
Fax

Project Name
Project Number
Bill To Company
Invoice Attn
Address
City/State/Zip
Phone
Fax

Parameter/Method Request for Analysis

e-Mail Address
Sample Description

Date
Time
Matrix
Pres.
Bottles

Notes

Relinquished by:
Relinquished by:
Logged by (Laboratory):
Preservative Key:

Received by:
Received by (Laboratory):
Checked by (Laboratory):

Cooler ID
Cooler Temp.
QC Package: (Check One Box Below)

Shipment Method
Required Turnaround Time: (Check Box)

Results Due Date:

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	Notes
1	B-1-E (1-3')	9/28/2022	9:15a	Soil		3	X X X X
2	B-10-E (1-3')		9:40a				X X X X
3	B-12-E (2-4')		9:55a				X X X X
4	B-18-E (2-4')		10:15a				X X X X
5	DB-1 (1-3')		10:30a				X X X X
6	DB-2 (2-4')		10:40a				X X X X
7	DB-3 (1-3')		10:50a				X X X X
8	DB-3 (3-5')		10:58a				X X X X
9	DB-4 (1-3')		11:00a				X X X X
10	DB-5 (2-4')		11:15a				X X X X

22092946
 AKT PEERLESS - FARMINGTON, AKT Peerless
 Project: Renovare Development

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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York, PA
+1 717 505 5280

Page 2 of 2
COC ID: **0558886**

Customer Information

Purchase Order		Project Name	Renovare Development
Work Order		Project Number	1062753 - 1 - Z0
Company Name	AKT Peerless	Bill To Company	AKT Peerless
Send Report To	Collin Jump	Invoice Attn	Scott Wasielewski
Address	22725 Orchard Lake Road	Address	214 James Avenue
City/State/Zip	Farmington / MI 48336	City/State/Zip	Saginaw / MI 48607
Phone	248-880-7066	Phone	248-615-1333
Fax		Fax	
e-Mail Address	jumpc@aktpeerless.com	e-Mail Address	invoices@aktpeerless.com

Project Information

ALS Project Manager:	
Parameter/Method Request for Analysis	

A	NOCs
B	SVOCs
C	MI-10 Metals
D	PCBs
E	
F	
G	
H	
I	
J	
Hold	

AKT PEERLESS - FARMINGTON, AKT Peerless
Project: Renovare Development

22092946

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	DB-6 (2-4')	9/28/2022	11:30a	So:1		3	X	X	X	X							
2	DB-7 (4-6')		11:45a														
3	DB-8 (4-6')		12:05p														
4	DB-9 (2-4')		12:20p														
5	DB-10 (2-4')		12:25p														
6	DB-11 (3-5')		12:45p														
7	DB-12 (3-5')		1:10p														
8	DB-13 (1-3')		1:25p														
9	DB-14 (1-3')		1:35p														
10																	

Sampler(s) Please Print & Sign: Collin Jump Collin Jump

Relinquished by: [Signature] Date: 9/29 Time: 1:35P

Relinquished by: [Signature] Date: 9/29/22 Time: 1:00P

Logged by (Laboratory): [Signature] Date: 9/30/22 Time: 1:05

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₈ 6-NaHSO₄ 7-Other 8-4°C 9-6036

Shipment Method: 10 BD 5 BD 3 BD 2 BD 1 BD

Turnaround Time in Business Days (BD): STRAWDA BD

Notes: 9/29/22 2100

QC Package: (Check One Box Below)

Level II Std CC TRRP Checklist

Level III Std CC/RAW Date TRRP Level IV

Level IV SW846/CLP Other

Results Due Date:

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Sample Receipt Checklist

Client Name: **AKT PEERLESS - FARMINGTON**

Date/Time Received: **29-Sep-22 21:00**

Work Order: **22092946**

Received by: **KRW**

Checklist completed by **Keith Wierenga**

30-Sep-22

Reviewed by:

eSignature

Date

eSignature

Date

Matrices: Soil

Carrier name: Courier

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Sample(s) received on ice? Yes No

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

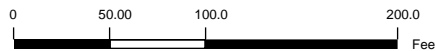
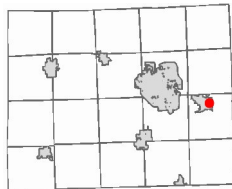
CorrectiveAction:

Appendix F

Parcel Map



Parcel Map



1: 1,200

11/18/2022



NOTE: Parcels may not be to scale.

The information contained in this cadastral map is used to locate, identify and inventory parcels of land in Washtenaw County for appraisal and taxing purposes only and is not to be construed as a "survey description". The information is provided with the understanding that the conclusions drawn from such information are solely the responsibility of the user. Any assumption of legal status of this data is hereby disclaimed.

Appendix G

Resumes of Environmental Professionals

Scott Wasielewski

Senior Project Manager

Mr. Wasielewski joined the AKT Peerless team in 2013 as an environmental consultant, specializing first in environmental due diligence and later in vapor mitigation; human health risk assessments and development of site-specific cleanup criteria for atypical land use; remediation services; and hydrogeological investigations.

EDUCATION

Master of Science, Environmental Science, University of Michigan-Dearborn (2014)

Bachelor of Science, Environmental Biology/Specialization in Microbiology, Michigan State University (2007)

PROFESSIONAL EXPERIENCE

Senior Project Manager

AKT Peerless Environmental Services (2022)

Project Manager

AKT Peerless Environmental Services (2019-2022)

Senior Environmental Consultant

AKT Peerless Environmental Services (2017-2019)

Environmental Consultant

AKT Peerless Environmental Services (2013-2017)

Technical Writer

Independent Contractor (2007-2013)

Undergraduate Research Assistant

MSU Department of Geological Sciences (2006-2007)

AREAS OF EXPERTISE

Mr. Wasielewski thrives on technical problem solving, whether navigating complex Phase I Environmental Site Assessments; designing subsurface and/or vapor intrusion investigations and vapor mitigation systems; evaluating clients' compliance with various continuing/Due Care obligations; conducting human health risk assessments and developing site-specific cleanup criteria for recreational land use; managing TSCA self-implementing cleanup of PCB contamination; or undertaking hydrogeological investigations for potable resource development and/or site characterization purposes. Mr. Wasielewski's clients include a variety of municipalities and private developers.

CERTIFICATIONS

40-Hour Hazardous Waste Operations & Emergency Response, 29 CFR Part 1910.120

Certified Inspector, Land Science Technologies (GeoSeal® Vapor Barrier)

Two-Hour Asbestos Awareness, 40 CFR Part 763 and 29 CFR Part 1926.1101

Louis F. Stultz

Group Leader



Mr. Stultz brings 21 years of professional experience in environmental consulting services. His expertise is in environmental due diligence, remedial investigations, and remediation systems.

PROFESSIONAL EXPERIENCE

**S.E. Michigan Regional Manager
Industrial Services Director**
AKT Peerless

Senior Project Manager
Canopus Environmental Group, Inc.

Project Manager
Atwell-Hicks, Inc.

Project Geologist
Snell Environmental Group, Inc.

Geologist
Aqua-Terra, Inc.

CERTIFICATIONS

OSHA
40 Hour Hazwoper Class and subsequent 8-hour refreshers

Asbestos Inspector
(Accreditation #A 14344) and subsequent 4-hour refreshers

**Risk Based Corrective Action
Petroleum Sites**
(MDEQ - RBCA Training)

**Assessment/Remediation of Petroleum
Hydrocarbons**
(Training - Private Contractor)

SARA Title III; Tier Two Reporting/Training

EDUCATION

BS: Geology, 1994
Eastern Michigan University

AREAS OF EXPERTISE

- Part 201 Environmental Due Diligence, including Phase I & II ESAs, and BEA/DCPs
- Part 213, Leaking Underground Storage Tank guidelines, removal and reporting
- Report writing under P.A. 451, Parts 201 and 213
- Brownfield Consulting Services
- Developing standard procedural guidelines, including work plans, USEPA QAPP, HASP & SAP documents
- Asbestos building inspections
- Environmental building assessments (Hazardous Materials Surveys) conducted in preparation of intended demolition activities prior to site redevelopment
- Conducting environmental compliance audits, preparing SPCC and SWPP plans

SUMMARY OF SELECTED PROJECTS

Phase I Environmental Site Assessments

- Project Manager for 500 Phase I ESAs since November of 1998.
- Personally completed over 175 Phase I ESAs since 1994.
- Multi-Site Phase I ESAs – Detroit, Michigan. Site manager for the completion of 35 Phase I ESAs (potential casino location) and 39 Phase I ESAs (professional stadium complex) in accordance with ASTM and City of Detroit guidelines. These projects were under extreme time constraints and were completed on schedule.

Leaking Underground Storage Tank Sites

- Fort Wayne Military Reservation, Detroit, Michigan: U. S. Army Corps of Engineers
- Michigan State Police Posts: Michigan Department of Management & Budget
- Michigan Department of Military Affairs, including; Detroit Artillery Armory, Oak Park; Detroit Light Guard Armory, Detroit; Midland Armory, Midland, and the Monroe Armory, Monroe
- Standard Federal Bank branches, Southeast Michigan
- Multiple current and former gas station sites throughout Michigan
- Amoco fuel storage terminal, Bay City, Michigan
- Amoco bulk fuel storage facility, Coldwater, Michigan
- Bulk fuel storage facility, Romulus, Michigan
- Multiple auto dealerships located throughout Southeast Michigan

Phase II Environmental Site Assessments/Subsurface Investigations : Baseline Environmental Assessments & Due Care Plan Preparation

- Independent bulk fuel storage facilities throughout Michigan
- Numerous industrial manufacturing facilities throughout Michigan
- Numerous commercial properties throughout Michigan
- Warehouse distribution facilities throughout Michigan
- Farmland/residential development sites throughout Michigan
- Managed and/or conducted all project activities, including the advancement of Geoprobe and hollow-stem auger borings, soil verification sampling, laboratory analysis, soil disposal, well installation & abandonment, summary/closure reporting, Phase II ESA/SI and BEA/Due Care Plan preparation, and all client/regulatory contacts and requirements.

Remedial Investigations

- Revere, Copper & Brass (MDEQ "Level of Effort" Contract) – Detroit, Michigan.
- Lear Siegler (MDEQ "Level of Effort" Contract) – Detroit, Michigan
- Anaconda Brass (MDEQ "Level of Effort" Contract) – Detroit, Michigan
- Lawton Street (MDEQ "Level of Effort" Contract) – Detroit, Michigan
- Supervised field activities during each remedial investigation, including the collection and submittal of soil, sludge, groundwater and concrete samples throughout each industrial complex.
- Supervised the installation of monitoring wells, and the collection and submittal of all surface water and ground water samples during quarterly sampling events. Conducted monitoring well slug tests. Assisted in the development of the RI/RAP Reports.
- Former NIKE Missile Battery, Southfield, Michigan: U. S. Army Corps of Engineers.
- Performed environmental oversight during demolition activities and supervised the removal of accumulated groundwater within the missile silos.

Responsibilities include, directing brownfield consulting services and/or providing project management for a number of brownfield redevelopment projects benefiting both private developers and municipalities.

Services include:

- Writing Brownfield Plans and Act 381 Work Plans (TIF Reimbursement)
- MBT Credit Applications
- Brownfield Redevelopment Grants & Loans (CMI)
- USEPA Revolving Loan Fund/Grants and Assessment/Cleanup Grants.

Brownfield projects, consulting and/or business development services were conducted through the following Brownfield Redevelopment Authorities (BRAs):

Ann Arbor (formally independent, currently part of WCBRA), Auburn Hills, Battle Creek, Detroit, Genesee County (Land Bank Authority), Howell, Kalamazoo, Lansing, Lincoln Park, Monroe, Trenton, Vassar Township, Washtenaw County (Saline, Chelsea, and Dexter) and Ypsilanti (formally independent, currently part of WCBRA).