



AJS GROUP, INC.

Professional Environmental Services

PHASE II SUBSURFACE INVESTIGATION REPORT

Subject Property:

**3453-3459 South Western Avenue
Chicago, Cook County, Illinois 60608
Parcel Index Numbers: 17-31-117-020-0000**

Prepared for:

Mr. Tony Ng
Principal
Montgomery Construction, Inc.
2629 W. Montgomery Avenue
Chicago, IL 60632

Project No. 5315-1336



Report Date: May 15, 2018

7501 Lemont Road, Suite 315A, Woodridge, Illinois 60517

Tel: 630-696-5099 Fax: 888-348-2667 Email: ajs@ajsgroup.com



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EXECUTIVE SUMMARY

AJS Group, Inc. was retained to conduct a Phase II subsurface investigation to determine whether there is any adverse impact in the subsurface soil associated with the property located at 3453-3459 South Western Avenue, Chicago, Illinois (referred to as the subject property hereafter) to evaluate if the former operation of the subject property as a gas station has adversely impacted the subsurface soil.

Completed Scope of Work:

In this project, AJS Group, Inc. has completed the following scope of work to address the above recognized environmental condition (REC) in this project:

A total of fifteen soil borings were performed at the subject property to a depth of 12 feet below the ground surface. Each soil boring was logged & described in accordance with the Unified Soil Classification System (USCS) to document the subsurface strata, variation of soil color, compositions and visual evidence of petroleum contamination. Each soil sample will be also measured in the field using a photoionization detector (PID) for VOCs. As a result, ten representative soil samples displaying the highest potential for contamination for laboratory analysis for the following indicator contaminants: benzene, toluene, ethylbenzene and total xylenes (“BTEX”), methyl tertiary butyl ether (“MTBE”), and total lead. Five representative soil samples were also tested for the pH values to facilitate the comparison of the total lead soil analytical results to the Tier 1 pH-dependent soil remediation objectives for the soil component of Class I groundwater ingestion route. Before the soil sampling activities were initiated at the subject property, “DIGGER”, a public utility locator, was notified at least 48 hours ahead of our work.

Based on our field observations and the laboratory analyses for the said ten soil samples, it can be determined that benzene contaminated soil with benzene concentrations exceeding the Illinois EPA’s Tier 1 soil remediation for the soil component of Class I groundwater exposure route (0.03 mg/kg) currently exists in the northwestern corner of the subject property, where three gasoline underground storage tanks (USTs) were present according to the 1950 Sanborn Fire Insurance Map.

It is further estimated that the benzene impacted soil (benzene level > 0.03 mg/kg) covers an area of approximately 30 feet by 40 feet and extends to a depth of no deeper than 10 feet. Pursuant to 35 Illinois Administrative Code 742, “Tiered Approach to Corrective Action Objectives”, also known as “TACO Guidelines”, this benzene impacted soil may remain at the subject property, provided that the Chicago Groundwater Ordinance (Ordinance No. 11-8-390) is used as an institutional control to inhibit the use of groundwater as a potable water supply at the subject property, and in the event that this impacted soil is disturbed in the future construction activities, it can be either disposed of in a licensed landfill as a non-special waste or managed on the site by establishing a management zone under the Illinois EPA’s Site Remediation Program.



1.0 INTRODUCTION

1.1 Purpose

The purpose of this Phase II subsurface investigation was to determine or deny the presence of any adverse impact in subsurface soil in connection with the former operation of the subject property as a gas station.

1.2 Detailed Scope of Services

The scope of work performed in this study was laid out in a proposal, which was dated April 17, 2018 and accepted by the client on April 17, 2018.

1.3 Significant Assumptions

AJS Group, Inc. did not make any significant assumptions in performing this Phase II subsurface investigation.

1.4 User Reliance

The client and his bank of choice are solely authorized to rely on this Phase II subsurface investigation report. Unless otherwise expressly provided herein, no party may use or rely on this report, and Client shall make no representations to any party that such party may use or rely on this Phase II subsurface investigation report without our express written authorization.



2.0 Site Description

2.1 Site Description:

The subject property is located at 3453-3459 South Western Avenue, in a residential single-unit district zoned RS-3, in Chicago, Illinois. It is currently occupied by a vacant lot. The ground surface is currently covered largely with gravel.

According to the Cook County records, the subject property encompasses a parcel of land totaling approximately 9,940 square feet with dimensions of approximately 130' (frontage) x 76.5' (depth). The subject property is identified by the parcel index number (PIN) of 17-31-117-020-0000. The legal description for the subject property was not provided for our review in this study.

2.2 Current Property Uses:

The subject property is currently occupied by a vacant lot.

2.3 Site Topography & Soils

According to the US Geological Survey 7.5 minute topographic map, the ground surface at the subject property has an elevation of about 597 feet above the mean sea level (MSL) with the local topography gently sloping toward the west. Therefore, it can be inferred that the shallow groundwater beneath the subject property would likely flow toward the west in conformance with the above topographic gradient. However, localized flow direction may vary as a result of rainfall, development, geologic characteristics, nearby surface water bodies, underground utilities such as storm drains, septic systems and sewers, or other influences such as the presence of high volume wells. There is no water supply well or surface water body within a radius of 400 feet from the subject property.

According to the USDA NRCS Web Soil Survey, soils are mapped as the Urban Land series and the soils are identified as silty clays from 0 to 60 inches below the surface (bgs). The subsurface soils mainly consist of silt loam, fine sandy loam and loamy fine sand to a depth of up to 20 feet below the grade, which are underlain by a glacial till layer and then dolomite rocks of Silurian age at depths greater than 50 feet bgs. These soils do not meet the requirements for a hydric soil.

2.4 Surrounding Properties:

South: West 35th Street. Further to the south is located a three-story mixed use commercial building.

West: South Western Avenue (Boulevard), across which are located several mixed use commercial buildings.



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North: A residential district, which are developed with a series of two-story residences.

East: South Claremont Avenue, across which is located a residential district.



3.0 SITE GEOLOGY

According to Surficial Geology of the Chicago Region (Illinois Geological Survey Circular # 460, 1970), the subject property is largely underlain by glacial till, which is characterized by clayey soil and thin deposits of silt.

In order to evaluate the potential impacts of contaminants to the underlying groundwater resources and nearby surface water bodies, the Illinois State Geological Survey's (ISGS) Circular 532 (1984), titled "Potential For Contamination of Shallow Aquifers in Illinois" was reviewed as part of this study. The ISGS Circular 532 includes a methodology for evaluating the potential for contaminating groundwater resources in any area of the State of Illinois. This method uses hydrogeological properties and stratigraphic position of geologic materials as the basis for mapping the potential for contaminating aquifers. By comparing sequences of geologic materials at different sites, the relative contamination potential at any sites was classified as one (1) of the following eighteen sequences of geologic materials: A1, A2, A3, A4, A5, AX, B1, B2, BX, C1, C2, C3, C4, C5, D, E, F, and G.

According to Illinois State Geological Survey (ISGS) Circular 532 (Berg et al., 1984), it appears that the subject property is located in a designated "E" area, where relatively impermeable glacial till exists within 50 feet of the ground surface.

Based on the soil core columns encountered beneath the subject property, it is determined that the indigenous soils mainly consist of silty clay, which exists from near the ground surface to the terminus of the soil borings at a maximum depth of 16 feet below the ground surface. This site geology is consistent with that described for "E" area.

2.2 Site Hydrogeology

The shallow groundwater was encountered at depths from 9.5 feet to 10.0 feet below the existing grade in each of the fifteen soil borings advanced at the subject property in this project. According to the US Geological Survey 7.5 minute topographic map, the ground surface at the subject property has an elevation of about 601 feet above the mean sea level (MSL) with the local topography gently sloping toward the Chicago Sanitary & Ship Canal, which is located approximately 0.5 mile northwest of the subject property. Therefore, it can be inferred that the shallow groundwater beneath the subject property would likely flow toward the northwest in conformance with the above topographic gradient. However, localized flow direction may vary as a result of rainfall, development, geologic characteristics, nearby surface water bodies, underground utilities such as storm drains, septic systems and sewers, or other influences such as the presence of high volume wells. There is no water supply well at or in the vicinity of the subject property.



4.0 SITE INVESTIGATION ACTIVITIES

To determine or deny the presence of any subsurface soil and groundwater contamination, AJS Group, Inc. mobilized on April 25, 2018 a field crew to conduct fifteen soil borings at the subject property using a bobcat mounted geoprobe.

During the soil sampling process, each soil boring was continuously sampled with a 4-foot stainless-steel sampling tube lined with a four-foot long plastic liner. Upon retrieval, the plastic liner along with the soil core was immediately taken out of the sampling tube and was cut open right away for soil sampling. To minimize the loss of the contaminants through volatilization, the following procedures were followed in soil sampling activities in chronological order:

After the plastic liner was cut open, a representative soil sample was taken every two feet of the entire length of said four-foot soil core using purge-and-trap samplers (plastic syringes). Each discrete soil sample was then placed into two 40-ml glass vials containing sodium bisulfate preservative, and one 40-ml glass vial containing methanol preservative (the glass vials were provided by the laboratory and were deemed clean).

During the soil boring activities, the soil samples recovered from each boring were visually logged for variations of soil colors, soil types and other physical properties. Prior to taking the PID readings, enough time was allowed for each soil sample to be stabilized. PID measurements were performed using the standard headspace method in which the soil organic vapors build up in the empty headspace were directly measured with a PID meter. The PID meter was daily calibrated to read in benzene equivalents in a detection range from 0.1 ppm to 5,000 ppm. As a result, no apparent volatile organic chemical impact was observed in each of the three soil borings. Please refer to Appendix II for details.

Further based on the combined results of the field PID measurements and visual inspection/observation, a total of five representative soil samples were selected for laboratory analyses. The indicator contaminants of concern analyzed for these five soil samples consist of BTEX, MTBE and total lead.

All BTEX/MTBE soil samples were collected in accordance with EPA's SW-846 Method 5035. Proper decontamination procedures were followed during the soil sampling activities. The stainless steel sampling tubes were washed and rinsed prior to and between each sampling activity. A new plastic liner was used for each soil boring advancement. A new pair of gloves was used for collecting each soil sample. The Chain of Custody documentation was also strictly adhered to during the field sampling activities and the delivery of the soil samples from the field to the laboratory.

Upon completion, each borehole was sealed with bentonite, then filled with soil cuttings, and finally finished with concrete to match their original surface finishing.



5.0 SOIL ANALYTICAL RESULTS

As stated in the previous sections of this report, ten representative soil samples were collected for laboratory analyses. The selection of the above soil samples was based on PID readings obtained, visual observations made in the field and our professional judgment. The soil analytical results are tabulated in Table 1, and the laboratory report is included in Appendix I.

5.1 Soil Analytical Results:

As indicated in Table 1, none of BTEX, MTBE and total lead were found in any of the ten soil samples in concentrations exceeding the most stringent Tier 1 soil remediation objectives for residential properties except that slightly benzene impacted soil was found in the soil samples SB11-8', SB12-5' and SB13-5'.

5.2 Site Specific pH Values

According to the laboratory report (see Appendix I), the pH values obtained from the subject property range from 8.19 to 8.85, which are all within the range of 6.25 to 9 as prescribed in 35 Illinois Administrative Code (IAC) 1100, "Clean Construction or Demolition Debris Fill Operations and Uncontaminated Soil Fill Operations". This means that the former on-site gas station operation has not significantly impacted the pH value in the subsurface soil.



6.0 CONCLUSIONS AND RECOMMENDATIONS

In this Phase II subsurface investigation, AJS Group, Inc. performed a total of fifteen soil borings to a depth of 12 feet below the existing ground surface using a bobcat mounted geoprobe. During the soil boring activities, a total of ten representative soil samples were collected for laboratory analysis of BTEX, MTBE and total lead. Five representative soil samples were also tested for the pH values to facilitate the comparison of the total lead soil analytical results to the Tier 1 pH-dependent soil remediation objectives for the soil component of Class I groundwater ingestion route.

Based on our field observations & PID measurements, and according to the soil analytical results obtained in this investigation, AJS Group, Inc. concludes that benzene contaminated soil with benzene concentrations exceeding the Illinois EPA's Tier 1 soil remediation for the soil component of Class I groundwater exposure route (0.03 mg/kg) currently exists in the northwestern corner of the subject property, where three gasoline underground storage tanks (USTs) were present according to the 1950 Sanborn Fire Insurance Map.

It is further estimated that the benzene impacted soil (benzene level > 0.03 mg/kg) covers an area of approximately 30 feet by 40 feet and extends to a depth of no deeper than 10 feet. Pursuant to 35 Illinois Administrative Code 742, "Tiered Approach to Corrective Action Objectives", also known as "TACO Guidelines", this benzene impacted soil may remain at the subject property, provided that the Chicago Groundwater Ordinance (Ordinance No. 11-8-390) is used as an institutional control to inhibit the use of groundwater as a potable water supply at the subject property, and in the event that this impacted soil is disturbed in the future construction activities, it can be either disposed of in a licensed landfill as a non-special waste or managed on the site by establishing a management zone under the Illinois EPA's Site Remediation Program.

It should also be pointed out that, due to auger refusal, no soil boring could be advanced to more than three feet below the grade inside the former tank field, where three gasoline USTs were presumed to exist according to the 1950 Sanborn Map. Therefore, we could not determine if any UST still exists in this area. However, it appears that no gasoline UST is currently present in the southeastern corner of the subject property because it was not encountered in this presumed tank location and no apparent soil impact was noticed in this area during the soil boring activities.



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7.0 CLOSURE REMARKS

The Phase II subsurface investigation detailed in this report was performed in accordance with generally accepted methods and practices of environmental profession. The findings documented in this report are believed to be reliable to the extent possible for the information gathered and for the scope and intent of the work mutually agreed upon by the client and AJS Group, Inc.

AJS Group, Inc. appreciates the opportunity to be of service to you in this project. Should you have any questions concerning this report, please feel free to contact my office.

Prepared by:
AJS Group, Inc.

A handwritten signature in black ink, appearing to read 'John'.

Project Manager



8.0 QUALIFICATIONS

This report was prepared by Joseph Zhou, whose qualifications are summarized as follows.

Professional Highlight:

Mr. Zhou has over 20-year experiences in environmental consulting & engineering and has personally conducted and/or managed hundreds of Phase I environmental site assessments, Phase II subsurface soil and/or groundwater investigations, environmental cleanups via conventional “dig & haul” methods and via alternative technologies, such as vapor extraction, chemical oxidation, bioremediation, as well as risk-based environmental site assessments and/or corrective actions pursuant to the Illinois EPA’s “TACO” Guidelines (35 IAC 742) for various commercial and industrial properties, such as gas stations, drycleaning plants and industrial factories. In doing so, Mr. Zhou has acquired or contributed to acquire hundreds of No Further Remediation (NFR) letters from the Illinois EPA for various commercial and industrial properties.

Education:

B.S. in geological engineering, Chengdu University of Technology, China (1982)
M.S. in geophysics/seismology, Chinese Science Academy Graduate School (1985)
M.S. in geology, Bowling Green State University, Ohio (1989)
Ph.D. candidate, Michigan State University (1992)

Table 1 Soil Analytical Results

				lient Sample ID :	SB1-6'	SB2-9'	SB3-6'	SB4-6'	SB8-9'
				Date Collected :	04/25/2018				
				Tier 1 SROs					
Analyte	Ingestion	Inhalation	Class I						
Benzene	12	0.8	0.03	< 0.0044	< 0.0035	< 0.0045	< 0.0037	< 0.0034	
Ethylbenzene	7,800	400 / 58*	13	< 0.0044	< 0.0035	< 0.0045	< 0.0037	< 0.0034	
Methyl tert-butyl ether	780	8,800 / 140*	0.32	< 0.0044	< 0.0035	< 0.0045	< 0.0037	< 0.0034	
Toluene	16,000	650 / 42*	12	< 0.0044	< 0.0035	< 0.0045	< 0.0037	< 0.0034	
Xylenes, Total	16,000	320 / 5.6*	150	< 0.013	< 0.010	< 0.013	< 0.011	< 0.010	
Lead	400	N/A	107	19	10	21	20	29	

				lient Sample ID :	SB9-8'	SB10-8'	SB11-8'	SB12-5'	SB13-5'
				Date Collected :	04/25/2018				
				Tier 1 SROs					
Analyte	Ingestion	Inhalation	Class I						
Benzene	12	0.8	0.03	< 0.0033	< 0.0038	0.087	0.15	0.17	
Ethylbenzene	7,800	400 / 58*	13	< 0.0033	< 0.0038	0.060	< 0.0037	0.54	
Methyl tert-butyl ether	780	8,800 / 140*	0.32	< 0.0033	< 0.0038	< 0.0034	< 0.0037	< 0.24	
Toluene	16,000	650 / 42*	12	< 0.0033	< 0.0038	0.0042	0.0084	< 0.24	
Xylenes, Total	16,000	320 / 5.6*	150	< 0.010	< 0.012	< 0.010	0.013	< 0.71	
Lead	400	N/A	107**	31	22	13	19	25	

Tier 1 SROs: Illinois EPA's Tier 1 soil remediation objectives for residential properties; Ingestion: Soil ingestion route; Inhalation: Outdoor inhalation route.

Class I: the soil component of Class I groundwater ingestion exposure route.

N/A: NO Tier 1 SROs available at this time.

*: Tier 1 SROs for construction worker exposure route.

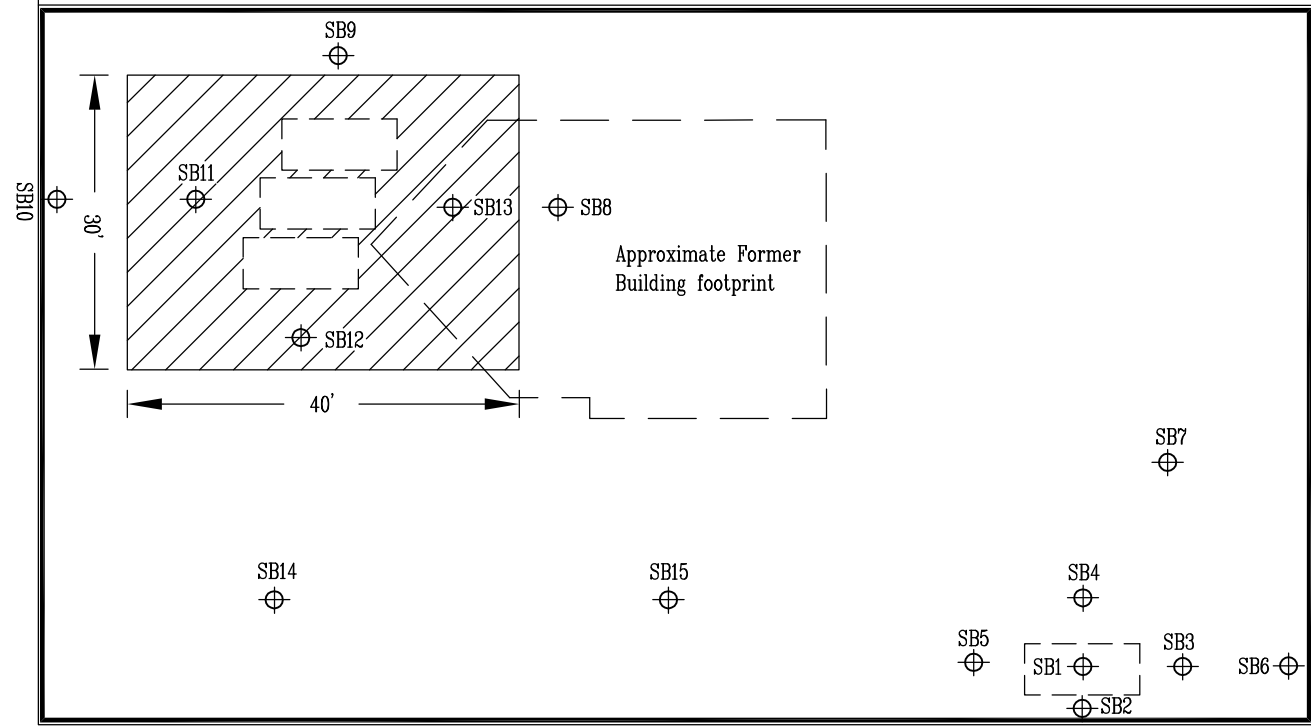
**: Tier 1 pH-dependent SRO with an average pH value = 8.47.



Residential Area

SOUTH WESTERN AVENUE

SOUTH CLAREMONT AVENUE



WEST 35TH STREET

LEGEND




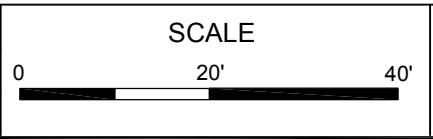
-  Soil boring locations
-  Former UST locations
-  Contamination plume

FIGURE NO.	1
FIGURE NAME	Soil Boring Location Map
ADDRESS	3453-3459 S. Western Avenue, Chicago, IL 60608



AJS Group, INC.
7501 Lemont Road, Suite 315A, Woodridge, Illinois 60517



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APPENDIX I

SOIL ANALYTICAL RESULTS & CHAIN OF CUSTODY

7501 Lemont Road, Suite 315A, Woodridge, Illinois 60517

Tel. 630-696-5099 Fax: 888-348-2267 Website: Ajsgrp.com

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

May 08, 2018

AJS Group Inc
7501 Lemont Road, Suite 315A
Woodridge, IL 60517
Telephone: (630) 696-5099
Fax: (888) 348-2667

Analytical Report for STAT Work Order: 18040865 Revision 0

RE: 3453 S. Western Ave, Chicago, IL 60608

Dear Joe Zhou:

STAT Analysis received 10 samples for the referenced project on 4/25/2018 5:05:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Martin Kucan
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: AJS Group Inc
Project: 3453 S. Western Ave, Chicago, IL 60608
Work Order: 18040865 Revision 0

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
18040865-001A	SB1-6'		4/25/2018 9:38:00 AM	4/25/2018
18040865-001B	SB1-6'		4/25/2018 9:38:00 AM	4/25/2018
18040865-002A	SB2-9'		4/25/2018 10:02:00 AM	4/25/2018
18040865-002B	SB2-9'		4/25/2018 10:02:00 AM	4/25/2018
18040865-003A	SB3-6'		4/25/2018 10:30:00 AM	4/25/2018
18040865-003B	SB3-6'		4/25/2018 10:30:00 AM	4/25/2018
18040865-004A	SB4-6'		4/25/2018 10:55:00 AM	4/25/2018
18040865-004B	SB4-6'		4/25/2018 10:55:00 AM	4/25/2018
18040865-005A	SB8-9'		4/25/2018 12:10:00 PM	4/25/2018
18040865-005B	SB8-9'		4/25/2018 12:10:00 PM	4/25/2018
18040865-006A	SB9-8'		4/25/2018 12:32:00 PM	4/25/2018
18040865-006B	SB9-8'		4/25/2018 12:32:00 PM	4/25/2018
18040865-007A	SB10-8'		4/25/2018 12:55:00 PM	4/25/2018
18040865-007B	SB10-8'		4/25/2018 12:55:00 PM	4/25/2018
18040865-008A	SB11-8'		4/25/2018 1:20:00 PM	4/25/2018
18040865-008B	SB11-8'		4/25/2018 1:20:00 PM	4/25/2018
18040865-009A	SB12-5'		4/25/2018 1:42:00 PM	4/25/2018
18040865-009B	SB12-5'		4/25/2018 1:42:00 PM	4/25/2018
18040865-010A	SB13-5'		4/25/2018 2:10:00 PM	4/25/2018
18040865-010B	SB13-5'		4/25/2018 2:10:00 PM	4/25/2018

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: May 08, 2018

ANALYTICAL RESULTS

Date Printed: May 08, 2018

Client: AJS Group Inc

Project: 3453 S. Western Ave, Chicago, IL 60608

Work Order: 18040865 Revision 0

Lab ID: 18040865-001

Collection Date 4/25/2018 9:38:00 AM

Client Sample ID: SB1-6'

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
BTEX by GC/MS	SW5035/8260B				Prep Date: 4/26/2018	Analyst: ERP
Benzene	ND	0.0044		mg/Kg-dry	1	5/2/2018
Ethylbenzene	ND	0.0044		mg/Kg-dry	1	5/2/2018
Methyl tert-butyl ether	ND	0.0044		mg/Kg-dry	1	5/2/2018
Toluene	ND	0.0044		mg/Kg-dry	1	5/2/2018
Xylenes, Total	ND	0.013		mg/Kg-dry	1	5/2/2018
Metals by ICP/MS	SW6020A (SW3050B)				Prep Date: 5/7/2018	Analyst: JG
Lead	19	0.52		mg/Kg-dry	10	5/7/2018
pH (25 °C)	SW9045C				Prep Date: 5/8/2018	Analyst: PBG
pH	8.19			pH Units	1	5/8/2018
Percent Moisture	D2974				Prep Date: 5/1/2018	Analyst: VA
Percent Moisture	18.0	0.2	*	wt%	1	5/2/2018

Lab ID: 18040865-002

Collection Date 4/25/2018 10:02:00 AM

Client Sample ID: SB2-9'

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
BTEX by GC/MS	SW5035/8260B				Prep Date: 4/26/2018	Analyst: MJK
Benzene	ND	0.0035		mg/Kg-dry	1	5/2/2018
Ethylbenzene	ND	0.0035		mg/Kg-dry	1	5/2/2018
Methyl tert-butyl ether	ND	0.0035		mg/Kg-dry	1	5/2/2018
Toluene	ND	0.0035		mg/Kg-dry	1	5/2/2018
Xylenes, Total	ND	0.010		mg/Kg-dry	1	5/2/2018
Metals by ICP/MS	SW6020A (SW3050B)				Prep Date: 5/7/2018	Analyst: JG
Lead	10	0.53		mg/Kg-dry	10	5/7/2018
Percent Moisture	D2974				Prep Date: 5/1/2018	Analyst: VA
Percent Moisture	19.9	0.2	*	wt%	1	5/2/2018

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: May 08, 2018

ANALYTICAL RESULTS

Date Printed: May 08, 2018

Client: AJS Group Inc

Project: 3453 S. Western Ave, Chicago, IL 60608

Work Order: 18040865 Revision 0

Lab ID: 18040865-003

Collection Date 4/25/2018 10:30:00 AM

Client Sample ID: SB3-6'

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
BTEX by GC/MS	SW5035/8260B				Prep Date: 4/26/2018	Analyst: MJK
Benzene	ND	0.0045		mg/Kg-dry	1	5/2/2018
Ethylbenzene	ND	0.0045		mg/Kg-dry	1	5/2/2018
Methyl tert-butyl ether	ND	0.0045		mg/Kg-dry	1	5/2/2018
Toluene	ND	0.0045		mg/Kg-dry	1	5/2/2018
Xylenes, Total	ND	0.013		mg/Kg-dry	1	5/2/2018
Metals by ICP/MS	SW6020A (SW3050B)				Prep Date: 5/7/2018	Analyst: JG
Lead	21	0.55		mg/Kg-dry	10	5/7/2018
Percent Moisture	D2974				Prep Date: 5/1/2018	Analyst: VA
Percent Moisture	17.9	0.2	*	wt%	1	5/2/2018

Lab ID: 18040865-004

Collection Date 4/25/2018 10:55:00 AM

Client Sample ID: SB4-6'

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
BTEX by GC/MS	SW5035/8260B				Prep Date: 4/26/2018	Analyst: MJK
Benzene	ND	0.0037		mg/Kg-dry	1	5/2/2018
Ethylbenzene	ND	0.0037		mg/Kg-dry	1	5/2/2018
Methyl tert-butyl ether	ND	0.0037		mg/Kg-dry	1	5/2/2018
Toluene	ND	0.0037		mg/Kg-dry	1	5/2/2018
Xylenes, Total	ND	0.011		mg/Kg-dry	1	5/2/2018
Metals by ICP/MS	SW6020A (SW3050B)				Prep Date: 5/7/2018	Analyst: JG
Lead	20	0.55		mg/Kg-dry	10	5/7/2018
Percent Moisture	D2974				Prep Date: 5/1/2018	Analyst: VA
Percent Moisture	18.8	0.2	*	wt%	1	5/2/2018

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: May 08, 2018

ANALYTICAL RESULTS

Date Printed: May 08, 2018

Client: AJS Group Inc

Project: 3453 S. Western Ave, Chicago, IL 60608

Work Order: 18040865 Revision 0

Lab ID: 18040865-005

Collection Date 4/25/2018 12:10:00 PM

Client Sample ID: SB8-9'

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
BTEX by GC/MS	SW5035/8260B				Prep Date: 4/26/2018	Analyst: MJK
Benzene	ND	0.0034		mg/Kg-dry	1	5/3/2018
Ethylbenzene	ND	0.0034		mg/Kg-dry	1	5/3/2018
Methyl tert-butyl ether	ND	0.0034		mg/Kg-dry	1	5/3/2018
Toluene	ND	0.0034		mg/Kg-dry	1	5/3/2018
Xylenes, Total	ND	0.010		mg/Kg-dry	1	5/3/2018
Metals by ICP/MS	SW6020A (SW3050B)				Prep Date: 5/7/2018	Analyst: JG
Lead	29	0.52		mg/Kg-dry	10	5/7/2018
pH (25 °C)	SW9045C				Prep Date: 5/7/2018	Analyst: RW
pH	8.29			pH Units	1	5/7/2018
Percent Moisture	D2974				Prep Date: 5/1/2018	Analyst: VA
Percent Moisture	18.6	0.2	*	wt%	1	5/2/2018

Lab ID: 18040865-006

Collection Date 4/25/2018 12:32:00 PM

Client Sample ID: SB9-8'

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
BTEX by GC/MS	SW5035/8260B				Prep Date: 4/26/2018	Analyst: MJK
Benzene	ND	0.0033		mg/Kg-dry	1	5/3/2018
Ethylbenzene	ND	0.0033		mg/Kg-dry	1	5/3/2018
Methyl tert-butyl ether	ND	0.0033		mg/Kg-dry	1	5/3/2018
Toluene	ND	0.0033		mg/Kg-dry	1	5/3/2018
Xylenes, Total	ND	0.010		mg/Kg-dry	1	5/3/2018
Metals by ICP/MS	SW6020A (SW3050B)				Prep Date: 5/7/2018	Analyst: JG
Lead	31	0.53		mg/Kg-dry	10	5/7/2018
Percent Moisture	D2974				Prep Date: 5/1/2018	Analyst: VA
Percent Moisture	19.0	0.2	*	wt%	1	5/2/2018

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: May 08, 2018

ANALYTICAL RESULTS

Date Printed: May 08, 2018

Client: AJS Group Inc

Project: 3453 S. Western Ave, Chicago, IL 60608

Work Order: 18040865 Revision 0

Lab ID: 18040865-007

Collection Date 4/25/2018 12:55:00 PM

Client Sample ID: SB10-8'

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
BTEX by GC/MS	SW5035/8260B				Prep Date: 4/26/2018	Analyst: MJK
Benzene	ND	0.0038		mg/Kg-dry	1	5/3/2018
Ethylbenzene	ND	0.0038		mg/Kg-dry	1	5/3/2018
Methyl tert-butyl ether	ND	0.0038		mg/Kg-dry	1	5/3/2018
Toluene	ND	0.0038		mg/Kg-dry	1	5/3/2018
Xylenes, Total	ND	0.012		mg/Kg-dry	1	5/3/2018
Metals by ICP/MS	SW6020A (SW3050B)				Prep Date: 5/7/2018	Analyst: JG
Lead	22	0.55		mg/Kg-dry	10	5/7/2018
Percent Moisture	D2974				Prep Date: 5/1/2018	Analyst: VA
Percent Moisture	18.7	0.2	*	wt%	1	5/2/2018

Lab ID: 18040865-008

Collection Date 4/25/2018 1:20:00 PM

Client Sample ID: SB11-8'

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
BTEX by GC/MS	SW5035/8260B				Prep Date: 4/26/2018	Analyst: MJK
Benzene	0.087	0.0034		mg/Kg-dry	1	5/3/2018
Ethylbenzene	0.060	0.0034		mg/Kg-dry	1	5/3/2018
Methyl tert-butyl ether	ND	0.0034		mg/Kg-dry	1	5/3/2018
Toluene	0.0042	0.0034		mg/Kg-dry	1	5/3/2018
Xylenes, Total	ND	0.010		mg/Kg-dry	1	5/3/2018
Metals by ICP/MS	SW6020A (SW3050B)				Prep Date: 5/7/2018	Analyst: JG
Lead	13	0.51		mg/Kg-dry	10	5/7/2018
pH (25 °C)	SW9045C				Prep Date: 5/7/2018	Analyst: RW
pH	8.53			pH Units	1	5/7/2018
Percent Moisture	D2974				Prep Date: 5/1/2018	Analyst: VA
Percent Moisture	17.0	0.2	*	wt%	1	5/2/2018

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: May 08, 2018

ANALYTICAL RESULTS

Date Printed: May 08, 2018

Client: AJS Group Inc

Project: 3453 S. Western Ave, Chicago, IL 60608

Work Order: 18040865 Revision 0

Lab ID: 18040865-009

Collection Date 4/25/2018 1:42:00 PM

Client Sample ID: SB12-5'

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
BTEX by GC/MS	SW5035/8260B				Prep Date: 4/26/2018	Analyst: MJK
Benzene	0.15	0.0037		mg/Kg-dry	1	5/3/2018
Ethylbenzene	ND	0.0037		mg/Kg-dry	1	5/3/2018
Methyl tert-butyl ether	ND	0.0037		mg/Kg-dry	1	5/3/2018
Toluene	0.0084	0.0037		mg/Kg-dry	1	5/3/2018
Xylenes, Total	0.013	0.011		mg/Kg-dry	1	5/3/2018
Metals by ICP/MS	SW6020A (SW3050B)				Prep Date: 5/7/2018	Analyst: JG
Lead	19	0.57		mg/Kg-dry	10	5/7/2018
pH (25 °C)	SW9045C				Prep Date: 5/7/2018	Analyst: RW
pH	8.48			pH Units	1	5/7/2018
Percent Moisture	D2974				Prep Date: 5/1/2018	Analyst: VA
Percent Moisture	19.7	0.2	*	wt%	1	5/2/2018

Lab ID: 18040865-010

Collection Date 4/25/2018 2:10:00 PM

Client Sample ID: SB13-5'

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
BTEX by GC/MS	SW5035/8260B				Prep Date: 4/26/2018	Analyst: MJK
Benzene	0.17	0.095		mg/Kg-dry	50	5/3/2018
Ethylbenzene	0.54	0.24		mg/Kg-dry	50	5/3/2018
Methyl tert-butyl ether	ND	0.24		mg/Kg-dry	50	5/3/2018
Toluene	ND	0.24		mg/Kg-dry	50	5/3/2018
Xylenes, Total	ND	0.71		mg/Kg-dry	50	5/3/2018
Metals by ICP/MS	SW6020A (SW3050B)				Prep Date: 5/7/2018	Analyst: JG
Lead	25	0.53		mg/Kg-dry	10	5/7/2018
pH (25 °C)	SW9045C				Prep Date: 5/7/2018	Analyst: RW
pH	8.85			pH Units	1	5/7/2018
Percent Moisture	D2974				Prep Date: 5/1/2018	Analyst: VA
Percent Moisture	19.6	0.2	*	wt%	1	5/2/2018

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

CHAIN OF CUSTODY RECORD

Company: <u>AJS Group, Inc.</u>		Client Tracking No.:						
Project Number:								
Project Name:								
Project Location: <u>3453 S. Western Ave., Chicago, IL 60608</u>								
Sampler(s): <u>Jae C. Zhou</u>								
Report To:								
Phone: <u>6306965099</u>								
Fax:								
e-mail:								
QC Level: 1 2 3 4	Date Taken	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers
SB1-6'	4/25/18	4/25/18	9:38	soil		X	F	4
SB2-9'			10:02			X		4
SB3-6'			10:30			X		4
SB4-6'			10:55			X		4
SB8-9'			12:10			X		4
SB9-8'			12:32			X		4
SB10-8'			12:55			X		4
SB11-8'			13:20			X		4
SB12-5'			13:42			X		4
SB13-5'	4/25/18	4/25/18	14:10	soil		X	F	4

Quote No.:	
P.O. No.:	
Turn Around Time (Days):	1 2 3 4 5 7 10
Results Needed:	
Additional Information:	
Lab No.:	001
	002
	003
	004
	005
	006
	007
	008
	009
	010

Relinquished by: (Signature)	Date/Time: <u>4/25/18 17:05</u>
Received by: (Signature)	Date/Time: <u>4/25/18 17:05</u>
Relinquished by: (Signature)	Date/Time:
Received by: (Signature)	Date/Time:
Relinquished by: (Signature)	Date/Time:
Received by: (Signature)	Date/Time:

Laboratory Work Order No.:	<u>1 F040865</u>
Received on Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Temperature: <u>3.3</u> °C	

Comments: BTEX MTBE Total Lead PH

Preservation Code: A = None B = HNO₃ C = NaOH
D = H₂SO₄ E = HCl F = 5035/EnCore G = Other

Sample Receipt Checklist

Client Name **AJS**

Date and Time Received: **4/25/2018 5:05:00 PM**

Work Order Number **18040865**

Received by: **CRG**

Checklist completed by: *[Signature]* 4/25/18
Signature Date

Reviewed by: MK 4/25/18
Initials Date

Matrix: Carrier name Client Delivered

- 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/containers? 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 or Temp Blank temperature in compliance? Yes No Temperature **3.5 °C**
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Samples pH checked? Yes No Checked by: _____
- Water - Samples properly preserved? Yes No pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments: _____

Client / Person contacted: _____ Date contacted: _____ Contacted by: _____

Response: _____



AJS GROUP, INC.

Professional Environmental Services

APPENDIX II

SOIL BORING LOGS

7501 Lemont Road, Suite 315A, Woodridge, Illinois 60517

Tel. 630-696-5099 Fax: 888-348-2267 Website: Ajsgrp.com

SOIL BORING LOG

Project Name				Site Address		Date	
Vacant Lot				3453-3459 S. Western Avenue, Chicago, IL 60608		04-25-2018	
Boring Number				Drilling Firm		Drilling Method	
Sheet 1 of 1 SB2				C.S. Drilling, Inc.		Bobcat GeoProbe	
Boring Depth	Sample Interval	Recovery (ft)	PID (ppm)	Soil/Sediment Description		Analytical Sample Number	
-0'	0-4'	3.3		Fill materials, consisting of a mixture of gravel, sand & clay, loose, moist, no hydrocarbon odor, no hydrocarbon staining observed.			
-1'			<1.0				
-2'				Silty clay (CL), blackish gray, moist, no hydrocarbon odor, no hydrocarbon discoloration observed.			
-3'			<1.0				
-4'	4-8'	3.8					
-5'			<1.0				
-6'				Silty clay (CL), brown, moist, no apparent hydrocarbon odor, no hydrocarbon discoloration observed.			
-7'			<1.0				
-8'	8-12'	3.6					
-9'			<1.0			SB2-9': This soil sample was collected at about 9 feet below grade, or slightly above the encountered water table.	
-10'				Silty clay (CL), gray, wet, of medium to high plasticity, no hydrocarbon odor, no hydrocarbon discoloration observed.			
-11'			<1.0				
-12'				END OF BORING AT 12 FEET			
-13'							
-14'							
-15'							
-16'							
<p>Note: 1. Stratification boundaries are approximate. In-situ transition between soil types may be gradual. 2. Sampling depth is within +/- 1 foot range.</p>							
Water Table While Drilling: 9.5 feet below grade				Geologist: Joe C. Zhou		Consulting Firm: AJS Group, Inc.	

SOIL BORING LOG

Project Name				Site Address		Date	
Vacant Lot				3453-3459 S. Western Avenue, Chicago, IL 60608		04-25-2018	
Boring Number				Drilling Firm		Drilling Method	
Sheet 1 of 1 SB3				C.S. Drilling, Inc.		Bobcat GeoProbe	
Boring Depth	Sample Interval	Recovery (ft)	PID (ppm)	Soil/Sediment Description		Analytical Sample Number	
-0'	0-4'	3.7	<1.0	Fill materials, consisting of a mixture of gravel, sand & clay, loose, moist, no hydrocarbon impact observed.		SB3-6': This soil sample was collected at about 6 feet below grade, corresponding "wall sample" for suspect gasoline UST in this location.	
-1'			<1.0	Silty clay (CL), blackish gray, moist, no hydrocarbon odor, no hydrocarbon discoloration observed.			
-2'			<1.0				
-3'			<1.0				
-4'	4-8'	3.4	<1.0	Silty clay (CL), brown, moist, no apparent hydrocarbon odor, no hydrocarbon discoloration observed.			
-5'			<1.0				
-6'			<1.0				
-7'			<1.0				
-8'	8-12'	4.0	<1.0				
-9'			<1.0				
-10'			<1.0	Silty clay (CL), gray, wet, of medium to high plasticity, no hydrocarbon odor, no hydrocarbon discoloration observed.			
-11'			<1.0				
-12'			<1.0	END OF BORING AT 12 FEET			
-13'							
-14'							
-15'							
-16'							
<p>Note: 1. Stratification boundaries are approximate. In-situ transition between soil types may be gradual. 2. Sampling depth is within +/- 1 foot range.</p>							
Water Table While Drilling: 9.5 feet below grade				Geologist: Joe C. Zhou		Consulting Firm: AJS Group, Inc.	

SOIL BORING LOG

Project Name				Site Address		Date	
Vacant Lot				3453-3459 S. Western Avenue, Chicago, IL 60608		04-25-2018	
Boring Number				Drilling Firm		Drilling Method	
Sheet 1 of 1 SB4				C.S. Drilling, Inc.		Bobcat GeoProbe	
Boring Depth	Sample Interval	Recovery (ft)	PID (ppm)	Soil/Sediment Description		Analytical Sample Number	
0' -1' -2' -3' -4' -5' -6' -7' -8' -9' -10' -11' -12' -13' -14' -15' -16'	0-4' 4-8' 8-12'	3.0 3.6 4.0	<1.0 <1.0 <1.0 <1.0	Fill materials, consisting of a mixture of gravel, sand & clay, loose, moist, no hydrocarbon impact observed. Silty clay (CL), blackish gray, moist, no hydrocarbon odor, no hydrocarbon discoloration observed. Silty clay (CL), brown, moist, no apparent hydrocarbon odor, no hydrocarbon discoloration observed. Silty clay (CL), gray, wet, of medium to high plasticity, no hydrocarbon odor, no hydrocarbon discoloration observed. END OF BORING AT 12 FEET		SB4-6': This soil sample was collected at about 6 feet below grade, corresponding "wall sample" for suspect gasoline UST in this location.	
Note: 1. Stratification boundaries are approximate. In-situ transition between soil types may be gradual. 2. Sampling depth is within +/- 1 foot range.							
Water Table While Drilling:				Geologist:		Consulting Firm:	
9.5 feet below grade				Joe C. Zhou		AJS Group, Inc.	

SOIL BORING LOG

Project Name				Site Address		Date	
Vacant Lot				3453-3459 S. Western Avenue, Chicago, IL 60608		04-25-2018	
Boring Number				Drilling Firm		Drilling Method	
Sheet 1 of 1 SB5				C.S. Drilling, Inc.		Bobcat GeoProbe	
Boring Depth	Sample Interval	Recovery (ft)	PID (ppm)	Soil/Sediment Description		Analytical Sample Number	
0' -1' -2' -3' -4' -5' -6' -7' -8' -9' -10' -11' -12' -13' -14' -15' -16'	0-4' 4-8' 8-12'	3.2 4.0 4.0	<1.0 <1.0 <1.0 <1.0	Fill materials, consisting of a mixture of gravel, sand & clay, loose, moist, no hydrocarbon impact observed. ----- Silty clay (CL), blackish gray, moist, no hydrocarbon odor, no hydrocarbon discoloration observed. ----- Silty clay (CL), brown, moist, no apparent hydrocarbon odor, no hydrocarbon discoloration observed. ----- Silty clay (CL), gray, wet, of medium to high plasticity, no hydrocarbon odor, no hydrocarbon discoloration observed. ----- END OF BORING AT 12 FEET		No soil sample was collected in this soil boring for laboratory analysis due to lack of petroleum impact and budget constraint.	
Note: 1. Stratification boundaries are approximate. In-situ transition between soil types may be gradual. 2. Sampling depth is within +/- 1 foot range.							
Water Table While Drilling: 9.5 feet below grade				Geologist: Joe C. Zhou		Consulting Firm: AJS Group, Inc.	

SOIL BORING LOG

Project Name				Site Address		Date	
Vacant Lot				3453-3459 S. Western Avenue, Chicago, IL 60608		04-25-2018	
Boring Number				Drilling Firm		Drilling Method	
Sheet 1 of 1 SB6				C.S. Drilling, Inc.		Bobcat GeoProbe	
Boring Depth	Sample Interval	Recovery (ft)	PID (ppm)	Soil/Sediment Description		Analytical Sample Number	
-0' -1' -2' -3' -4' -5' -6' -7' -8' -9' -10' -11' -12' -13' -14' -15' -16'	0-4' 4-8' 8-12'	3.8 4.0 3.5	<1.0 <1.0 <1.0 <1.0	Fill materials, consisting of a mixture of gravel, sand & clay, loose, moist, no hydrocarbon impact observed. ----- Silty clay (CL), blackish gray, moist, no hydrocarbon odor, no hydrocarbon discoloration observed. ----- Silty clay (CL), brown, moist, no apparent hydrocarbon odor, no hydrocarbon discoloration observed. ----- Silty clay (CL), gray, wet, of medium to high plasticity, no hydrocarbon odor, no hydrocarbon discoloration observed. ----- END OF BORING AT 12 FEET		No soil sample was collected in this soil boring for laboratory analysis due to lack of petroleum impact and budget constraint.	
Note: 1. Stratification boundaries are approximate. In-situ transition between soil types may be gradual. 2. Sampling depth is within +/- 1 foot range.							
Water Table While Drilling: 10.0 feet below grade				Geologist: Joe C. Zhou		Consulting Firm: AJS Group, Inc.	

SOIL BORING LOG

Project Name				Site Address		Date	
Vacant Lot				3453-3459 S. Western Avenue, Chicago, IL 60608		04-25-2018	
Boring Number				Drilling Firm		Drilling Method	
Sheet 1 of 1 SB7				C.S. Drilling, Inc.		Bobcat GeoProbe	
Boring Depth	Sample Interval	Recovery (ft)	PID (ppm)	Soil/Sediment Description		Analytical Sample Number	
-0' -1' -2' -3' -4' -5' -6' -7' -8' -9' -10' -11' -12' -13' -14' -15' -16'	0-4' 4-8' 8-12'	3.5 4.0 3.8	<1.0 <1.0 <1.0 <1.0	Fill materials, consisting of a mixture of gravel, sand & clay, loose, moist, no hydrocarbon impact observed. ----- Silty clay (CL), blackish gray, moist, no hydrocarbon odor, no hydrocarbon discoloration observed. ----- Silty clay (CL), brown, moist, no apparent hydrocarbon odor, no hydrocarbon discoloration observed. ----- Silty clay (CL), gray, wet, of medium to high plasticity, no hydrocarbon odor, no hydrocarbon discoloration observed. ----- END OF BORING AT 16 FEET		No soil sample was collected in this soil boring for laboratory analysis due to lack of petroleum impact and budget constraint.	
Note: 1. Stratification boundaries are approximate. In-situ transition between soil types may be gradual. 2. Sampling depth is within +/- 1 foot range.							
Water Table While Drilling: 10.0 feet below grade				Geologist: Joe C. Zhou		Consulting Firm: AJS Group, Inc.	

SOIL BORING LOG

Project Name				Site Address		Date	
Vacant Lot				3453-3459 S. Western Avenue, Chicago, IL 60608		04-25-2018	
Boring Number				Drilling Firm		Drilling Method	
Sheet 1 of 1 SB8				C.S. Drilling, Inc.		Bobcat GeoProbe	
Boring Depth	Sample Interval	Recovery (ft)	PID (ppm)	Soil/Sediment Description		Analytical Sample Number	
-0'	0-4'	3.2		Fill materials, consisting of a mixture of gravel, sand & debris, loose, moist, no hydrocarbon impact observed.			
-1'			<1.0				
-2'				-----			
-3'			<1.0	Silty clay (CL), blackish gray, moist, no hydrocarbon odor, no hydrocarbon discoloration observed.			
-4'	4-8'	3.8		-----			
-5'			<1.0	Silty clay (CL), brown, moist, no apparent hydrocarbon odor, no hydrocarbon discoloration observed.			
-6'							
-7'			<1.0				
-8'	8-12'	4.0					
-9'			<1.0			SB8-9': This soil sample was collected at about 9 feet below grade, slightly above the water table.	
-10'			<1.0	-----			
-11'			<1.0	Silty clay (CL), gray, wet, of medium to high plasticity, no hydrocarbon odor, no hydrocarbon discoloration observed.			
-12'				-----			
-13'				END OF BORING AT 12 FEET			
-14'							
-15'							
-16'							
Note: 1. Stratification boundaries are approximate. In-situ transition between soil types may be gradual. 2. Sampling depth is within +/- 1 foot range.							
Water Table While Drilling:				Geologist:		Consulting Firm:	
10.0 feet below grade				Joe C. Zhou		AJS Group, Inc.	

SOIL BORING LOG

Project Name				Site Address		Date	
Vacant Lot				3453-3459 S. Western Avenue, Chicago, IL 60608		04-25-2018	
Boring Number				Drilling Firm		Drilling Method	
Sheet 1 of 1 SB9				C.S. Drilling, Inc.		Bobcat GeoProbe	
Boring Depth	Sample Interval	Recovery (ft)	PID (ppm)	Soil/Sediment Description		Analytical Sample Number	
-0' -1' -2' -3' -4' -5' -6' -7' -8' -9' -10' -11' -12' -13' -14' -15' -16'	0-4' 4-8'	3.5 3.9	<1.0 ----- <1.0 ----- <1.0 2.0 ----- 5.0 ----- <1.0 ----- <1.0	Fill materials, consisting of a mixture of gravel, sand & debris, loose, moist, no hydrocarbon impact observed. Silty clay (CL), blackish gray, moist, no hydrocarbon odor, no hydrocarbon discoloration observed. Silty clay (CL), brown, moist, no apparent hydrocarbon odor, no hydrocarbon discoloration observed. Silty clay (CL), gray, wet, of medium to high plasticity, no hydrocarbon odor, no hydrocarbon discoloration observed. END OF BORING AT 12 FEET		SB9-8': This soil sample was collected at about 8 feet below grade.	
Note: 1. Stratification boundaries are approximate. In-situ transition between soil types may be gradual. 2. Sampling depth is within +/- 1 foot range.							
Water Table While Drilling:				Geologist:		Consulting Firm:	
10.0 feet below grade				Joe C. Zhou		AJS Group, Inc.	

SOIL BORING LOG

Project Name				Site Address		Date	
Vacant Lot				3453-3459 S. Western Avenue, Chicago, IL 60608		04-25-2018	
Boring Number				Drilling Firm		Drilling Method	
Sheet 1 of 1 SB10				C.S. Drilling, Inc.		Bobcat GeoProbe	
Boring Depth	Sample Interval	Recovery (ft)	PID (ppm)	Soil/Sediment Description		Analytical Sample Number	
0'	0-4'	3.9	<1.0	Fill materials, consisting of a mixture of gravel, sand & debris, loose, moist, no hydrocarbon impact observed.		SB10-8': This soil sample was collected at about 8 feet below grade.	
-1'			<1.0	Silty clay (CL), blackish gray, moist, no hydrocarbon odor, no hydrocarbon discoloration observed.			
-2'	4-8'	3.8	<1.0				
-3'			<1.0				
-4'			<1.0				
-5'	8-12'	3.4	<1.0	Silty clay (CL), brown, moist, no apparent hydrocarbon odor, no hydrocarbon discoloration observed.			
-6'			<1.0				
-7'			3.0				
-8'			3.0				
-9'	<1.0	Silty clay (CL), gray, wet, of medium to high plasticity, no hydrocarbon odor, no hydrocarbon discoloration observed.					
-10'	<1.0						
-11'	<1.0						
-12'	<1.0						
-13'	<1.0						
-14'			END OF BORING AT 12 FEET				
-15'							
-16'							
Note: 1. Stratification boundaries are approximate. In-situ transition between soil types may be gradual. 2. Sampling depth is within +/- 1 foot range.							
Water Table While Drilling:				Geologist:		Consulting Firm:	
10.0 feet below grade				Joe C. Zhou		AJS Group, Inc.	

SOIL BORING LOG

Project Name				Site Address		Date			
Vacant Lot				3453-3459 S. Western Avenue, Chicago, IL 60608		04-25-2018			
Boring Number				Drilling Firm		Drilling Method			
Sheet 1 of 1 SB11				C.S. Drilling, Inc.		Bobcat GeoProbe			
Boring Depth	Sample Interval	Recovery (ft)	PID (ppm)	Soil/Sediment Description		Analytical Sample Number			
0'	0-4'	3.7	<1.0	Fill materials, consisting of a mixture of gravel, sand & debris, loose, moist, no hydrocarbon impact observed.		SB11-8': This soil sample was collected at about 8 feet below grade.			
-1'			<1.0	Silty clay (CL), blackish gray, moist, no hydrocarbon odor, no hydrocarbon discoloration observed.					
-2'	4-8'	4.0	9.0	Silty clay (CL), brown, moist, faint to slight hydrocarbon odor, scattered hydrocarbon discoloration observed.					
-3'			13.0						
-4'			8-12'	3.2	39.0				
-5'					21.0				
-6'			<1.0	Silty clay (CL), gray, wet, of medium to high plasticity, no hydrocarbon odor, no hydrocarbon discoloration observed.					
-7'			<1.0	END OF BORING AT 12 FEET					
-8'			<1.0						
-9'			<1.0						
-10'			<1.0						
-11'			<1.0						
-12'			<1.0						
-13'			<1.0						
-14'			<1.0						
-15'			<1.0						
-16'			<1.0						
Note: 1. Stratification boundaries are approximate. In-situ transition between soil types may be gradual. 2. Sampling depth is within +/- 1 foot range.									
Water Table While Drilling:				Geologist:		Consulting Firm:			
10.0 feet below grade				Joe C. Zhou		AJS Group, Inc.			

SOIL BORING LOG

Project Name				Site Address		Date	
Vacant Lot				3453-3459 S. Western Avenue, Chicago, IL 60608		04-25-2018	
Boring Number				Drilling Firm		Drilling Method	
Sheet 1 of 1 SB12				C.S. Drilling, Inc.		Bobcat GeoProbe	
Boring Depth	Sample Interval	Recovery (ft)	PID (ppm)	Soil/Sediment Description		Analytical Sample Number	
-0'	0-4'	3.6		Fill materials, consisting of a mixture of gravel, sand & debris, loose, moist, no hydrocarbon impact observed.		SB12-5': This soil sample was collected at about 5 feet below grade.	
-1'			<1.0	-----			
-2'				Silty clay (CL), blackish gray, moist, no hydrocarbon odor, no hydrocarbon discoloration observed.			
-3'			4.0	-----			
-4'	4-8'	4.0		Silty clay (CL), brown, moist, faint to slight hydrocarbon odor, scattered hydrocarbon discoloration observed.			
-5'			57.0	-----			
-6'							
-7'			32.0	-----			
-8'	8-12'	4.0					
-9'			11.0	-----			
-10'							
-11'			<1.0	Silty clay (CL), gray, wet, of medium to high plasticity, no hydrocarbon odor, no hydrocarbon discoloration observed.			
-12'				-----			
-13'				END OF BORING AT 12 FEET			
-14'							
-15'							
-16'							
<p>Note: 1. Stratification boundaries are approximate. In-situ transition between soil types may be gradual. 2. Sampling depth is within +/- 1 foot range.</p>							
Water Table While Drilling:				Geologist:		Consulting Firm:	
10.0 feet below grade				Joe C. Zhou		AJS Group, Inc.	

SOIL BORING LOG

Project Name				Site Address		Date	
Vacant Lot				3453-3459 S. Western Avenue, Chicago, IL 60608		04-25-2018	
Boring Number				Drilling Firm		Drilling Method	
Sheet 1 of 1 SB13				C.S. Drilling, Inc.		Bobcat GeoProbe	
Boring Depth	Sample Interval	Recovery (ft)	PID (ppm)	Soil/Sediment Description		Analytical Sample Number	
-0'	0-4'	3.0		Fill materials, consisting of a mixture of gravel, sand & debris, loose, moist, no hydrocarbon impact observed.			
-1'			<1.0				
-2'							
-3'			<1.0	Silty clay (CL), blackish gray, moist, no hydrocarbon odor, no hydrocarbon discoloration observed.			
-4'	4-8'	4.0					
-5'			82.0	Silty clay (CL), brown, moist, faint to slight hydrocarbon odor, scattered hydrocarbon discoloration observed.		SB13-5': This soil sample was collected at about 5 feet below grade.	
-6'							
-7'			28.0				
-8'	8-12'	3.5					
-9'			15.0				
-10'							
-11'			<1.0	Silty clay (CL), gray, wet, of medium to high plasticity, no hydrocarbon odor, no hydrocarbon discoloration observed.			
-12'							
-13'				END OF BORING AT 12 FEET			
-14'							
-15'							
-16'							
Note: 1. Stratification boundaries are approximate. In-situ transition between soil types may be gradual. 2. Sampling depth is within +/- 1 foot range.							
Water Table While Drilling:				Geologist:		Consulting Firm:	
10.0 feet below grade				Joe C. Zhou		AJS Group, Inc.	

SOIL BORING LOG

Project Name				Site Address		Date			
Vacant Lot				3453-3459 S. Western Avenue, Chicago, IL 60608		04-25-2018			
Boring Number Sheet 1 of 1 SB14				Drilling Firm C.S. Drilling, Inc.		Drilling Method Bobcat GeoProbe			
Boring Depth	Sample Interval	Recovery (ft)	PID (ppm)	Soil/Sediment Description		Analytical Sample Number			
-0' -1' -2' -3'	0-4'	2.9	<1.0	Fill materials, consisting of a mixture of gravel, sand & clay, loose, moist, no hydrocarbon impact observed.		No soil sample was collected in this soil boring for laboratory analysis due to lack of petroleum impact and budget constraint.			
-4' -5' -6' -7'	4-8'	3.6	<1.0	Silty clay (CL), brown, moist, no apparent hydrocarbon odor, no hydrocarbon discoloration observed.					
-8' -9' -10' -11'	8-12'	3.8	<1.0	Silty clay (CL), gray, wet, of medium to high plasticity, no hydrocarbon odor, no hydrocarbon discoloration observed.					
-12' -13' -14' -15' -16'			<1.0	END OF BORING AT 12 FEET					
Note: 1. Stratification boundaries are approximate. In-situ transition between soil types may be gradual. 2. Sampling depth is within +/- 1 foot range.									
Water Table While Drilling: 10.0 feet below grade				Geologist: Joe C. Zhou				Consulting Firm: AJS Group, Inc.	

SOIL BORING LOG

Project Name				Site Address		Date	
Vacant Lot				3453-3459 S. Western Avenue, Chicago, IL 60608		04-25-2018	
Boring Number				Drilling Firm		Drilling Method	
Sheet 1 of 1 SB15				C.S. Drilling, Inc.		Bobcat GeoProbe	
Boring Depth	Sample Interval	Recovery (ft)	PID (ppm)	Soil/Sediment Description		Analytical Sample Number	
-0' -1' -2' -3' -4' -5' -6' -7' -8' -9' -10' -11' -12' -13' -14' -15' -16'	0-4' 4-8' 8-12'	2.5 4.0 4.0	<1.0 <1.0 <1.0 <1.0	Fill materials, consisting of a mixture of gravel, sand & clay, loose, moist, no hydrocarbon impact observed. Silty clay (CL), brown, moist, no apparent hydrocarbon odor, no hydrocarbon discoloration observed. Silty clay (CL), gray, wet, of medium to high plasticity, no hydrocarbon odor, no hydrocarbon discoloration observed. END OF BORING AT 12 FEET		No soil sample was collected in this soil boring for laboratory analysis due to lack of petroleum impact and budget constraint.	
Note: 1. Stratification boundaries are approximate. In-situ transition between soil types may be gradual. 2. Sampling depth is within +/- 1 foot range.							
Water Table While Drilling: 10.0 feet below grade				Geologist: Joe C. Zhou		Consulting Firm: AJS Group, Inc.	