Initial Site Screening (ISS)

CON12-15
DOC# 34618

Site Name: VOC - HARALD LAMBERTS PROPERTY

Project Manager: Matt Culp Date: 8/ 21/2018

☐ **3931 - Phase II Assessment Review – Brownfield Funded**
Phase II submitted as part of standard real estate development, pre-purchase agreement, or other due diligence, not a part of a community grant project, or

☐ **3837 - Phase II Assessment – Brownfield Grant Funded**
Phase II submitted as part of an EPA grant funded community-wide or targeted assessment project – see Mel Pins if questions on this determination, or

☒ **3321 - Phase II Assessment Review – CERCLA Pre-Remedial Funded**
Phase II submitted that is not part of a real estate transaction

Location: (Decimal Degree format)

Latitude: 41.6295 Longitude: 93.7133 **County:** Polk

USGS Quadrant: Des Moines NW

Site Size: 0.587 **Site Dimension:** ☒ Acres ☐ Square Feet ☐ Feet ☐ Square Miles ☐ Miles

Site Alias Name(s): Chilly Cow, Big Sky Bakery

Congressional District: Iowa 3rd

Grant Recipient Name: NA

Grant Recipient Address: NA

Grant Recipient Phone: NA **Grant Recipient Email:** NA

Current Owner(s): Harald Lamberts

Current Owner Address: 4108 142nd Street Grimes, Iowa 50111

If different from current owner:

Responsible Party Name(s): same

Responsible Party Address: same

Site Street Address or Tier, Range, Section & Subsections (if street address is unknown)

7015-7021 and 7025 Douglas Avenue Urbandale, Iowa

Directions to site: The site is located in Urbandale, Iowa at the listed addresses

Summarize the site history (past usages, past ownerships, wastes, known or suspected contamination pathways such as tanks, septic tank/tile field, lagoon, land applications, SW burial, etc.)

The Site is located in a commercial business area of Urbandale, Iowa. Originally, the Site may have had a residential dwelling located at the southwest comer of the Site at 7025 Douglas Avenue from 1940 through the late 1950s. The existing building at this address was built in 1960 and is used as an ice cream shop.

The building located on the east side of the Site at 7015-7021 Douglas Avenue was constructed in 1947. It has a two-story structure on the south side and a one-story addition on the north side. This building has housed several businesses over the years that could have handled hazardous substances. These include; an upholstery shop at 7017 Douglas Avenue (1949 and 1950), an electrical equipment manufacturer at 7019 Douglas Avenue (1957 and 1959) and electrical equipment company at 7019 Douglas Avenue (1966 through 1972), a truck "tie down cover" manufacturer in 1974, and an auto paint business at 7019½ Douglas Avenue in 1995. A bakery is currently located in lower level of the two-story building at 7021 Douglas Avenue. Other businesses located in this building include a quilting store located on the second floor at 7019 Douglas Avenue and a tanning salon located on the first floor at 7015 Douglas Avenue. The Site is served by city water and sewer. No above ground storage tanks or 55-gallon storage drums and no evidence of underground storage tanks were reported.

Briefly describe the site assessment that was conducted (number of borings, monitoring wells, number of samples, depth of soil samples and monitoring wells, analysis, etc.)

Three soil borings (TB-1 T-B2 and TB-3) were completed to a depth of 20 feet (Soil borings longs are attached). Test boring TB-1 was drilled at the south end of the property between the buildings, TB-2 was drilled midway along the east side of the property, and TB-3 was drilled near the northeast comer (See Site Map). Soils were field screened using a photoionization detector (PID). No discoloration, unusual odors, or elevated PID measurements were detected in soil. Soil samples for the analysis of metals were collected from a depth of one foot in each test boring. Soil samples for petroleum hydrocarbon analysis were collected from a depth of twelve feet in test borings TB-1 and TB-2 and from a depth of ten feet in TB-3. These depths were approximately equivalent to the water table as estimated during drilling. Soil and groundwater samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260B, total extractable hydrocarbons (TEH) by Iowa Method OA-2, and metals by EPA Methods 601 OB and 7471A. Groundwater samples were analyzed for VOCs by EPA Method 8260B and for TEH by Iowa Method OA-2.

Summarize the findings and conclusions regarding the contaminants found and their extent and concentrations. Relate those values to known criteria such as statewide standards, MCLs, water quality standards, background levels or other benchmarks used to determine site priority.

Soil Findings:

Arsenic, Barium, Cadmium, Chromium, and Lead were detected in soil. The concentrations were less than Iowa Land Recycling Program (LRP) statewide standards (SWS). Tetrachloroethylene (PCE) was detected at a concentration of 0.004 ppm in soil from TB-2. This concentration is less than the ILRP statewide standard of 1,500 ppm.

Groundwater Findings:

PCE was also detected in groundwater at a concentration of 6.5 ppb at soil boring TB-2. This concentration exceeds the LRP statewide standard of 5.0 ppb. TEH as Waste Oil was also detected at a concentration of 100 ppb in groundwater from TB-1. This concentration is less than the IDNR action level of 400 ppb. No other petroleum hydrocarbons or VOCs were detected in groundwater.

Identify on-site or off-site potential and actual targets (e.g., municipal wells, private wells, drinking water intakes). What is known of the neighboring area, i.e., are there residences, businesses, public use areas, etc.? Are there utility lines that could be impacted by site contaminants? Identify any other use/location issues that deserve consideration.

There are no reported On-site potential sources or receptors. Off-site sources include several registered UST sites, LUST sites and dry cleaners located in the surrounding vicinity. PCE is commonly associated with dry cleaners. The PCE observed in groundwater at this site may have originated from Plaza Cleaners located at 3816 70th Street located up-gradient and adjacent to the east of TB-2.

Rate the site on a scale of 1 to 4, in decreasing order of severity or priority.

Priority 3

Summarize the reasoning, knowledge or any other information used in determining your recommendation regarding the priority assigned to this site.

A risk calculation for exposure to indoor air was conducted by DNR utilizing the EPA Vapor Intrusion Screening Level (VISL) model. The highest groundwater contaminant concentrations of 6.5ug/L of PCE was screened with VISL to produce calculated indoor air concentrations that were then entered into the Iowa DNR Risk Calculator for exposure to indoor air. The results of the vapor intrusion screening indicate that the site would not exceed the cumulative cancer risk for site resident, site worker, and construction worker exposure scenarios. Based on the current site usage, additional investigation is not required at this time.

Site recommended for:

- [x] No further action under CERCLA
- [ ] Additional investigation under state program (activity code 2824)
- [ ] Additional investigation under CERCLA (Extended Site Screening)
- [ ] Transfer to LUST/UST

Form Reviewed: Amie Davidson **Date Reviewed:** 8-21-18

PRE-CERCLIS SCREENING ASSESSMENT CHECKLIST/DECISION FORM

This checklist can assist the site investigator during the Pre-CERCLIS screening. It will be used to determine whether further steps in the site investigation process are required under CERCLA. Use additional sheets, if necessary.

Checklist Preparer:

Name/Title Matt Culp Senior Environmental Specialist Date 8/21/2018

Address 502 East 9th Street City/State/Zip Des Moines IA 50319

E-mail matt.culp@dnr.iowa.gov Phone 1-515-725-8337

Site Name: VOC-HARALD LAMBERTS PROPERTIES

Previous Names (if any):

Site Location:

Address 7015-7021 AND 7025 Douglas Avenue City/State/Zip Urbandale, IA 50111

Latitude: 41.6295 **Longitude:** 93.7133

Compare the following checklist. If "yes" is marked, please explain below.	**YES**	**NO**
1. Does the site already appear in CERCLIS?	☐	☒
2. Is the release from products that are part of the structure of, and result in exposure within, residential buildings or businesses or community structures?	☐	☒
3. Does the site consist of a release of a naturally occurring substance in its unaltered form, or altered solely through naturally occurring processes or phenomena, from a location where it is naturally found?	☐	☒
4. Is the release into a public or private drinking water supply due to deterioration of the system through ordinary use?	☐	☒
5. Is some other program actively involved with the site (i.e., another Federal, State, or Tribal program)?	☐	☒
6. Are the hazardous substances potentially released at the site regulated under a statutory exclusion (i.e., petroleum, natural gas, natural gas liquids, synthetic gas usable for fuel, normal application of fertilizer, release located in a workplace, naturally occurring, or regulated by the NRC, UMTRCA, or OSHA)?	☐	☒
7. Are the hazardous substances potentially released at the site excluded by policy considerations (e.g., deferral to RCRA Corrective Action)?	☐	☒
8. Is there sufficient documentation that clearly demonstrates that there is no potential for a release that could cause adverse environmental or human health impacts (e.g., comprehensive remedial investigation equivalent data showing no release above ARARs, completed removal action, documentation showing that no hazardous substance release have occurred, EPA approved risk assessment completed)?	☐	☒

Please explain all "yes" answer(s), attach additional sheets if necessary:

Site Determination:

☐ Enter the site into CERCLIS. Further assessment is recommended (Explain below).

☒ The site is not recommended for placement into CERCLIS (Explain below).

☐ Further assessment is recommended under PRE-CERCLA (Explain below).

DECISION/DISCUSSION/RATIONALE:

- No contamination above as SWS was detected in any of the soil samples.
- There are no completed risk exposure pathways (indoor air, soil or groundwater).

Regional EPA Reviewer: _____ _____

Print Name/Signature — Date

State Agency/Tribe: Amie Davidson Amie Davidson — 8-21-18

Print Name/Signature — Date

REGION VII
U.S. ENVIRONMENTAL PROTECTION AGENCY

ENFORCEMENT SENSITIVE INFORMATION
FOR INTERNAL USE ONLY

LOCATION FORM

(Required information marked with a * and in red)

*Site Name: VOC - Harald Lamberts Properties *EPA ID:

*Latitude: 41.6295 *Longitude: 93.7133 Measurement Sequence:
Decimal Decree Format (See Comment A)

*Lat/Long Source:
- ☐ Contractor
- ☐ Dun & Bradstreet
- ☐ EPA Region 7
- ☐ Geograph
- ☐ Other Federal Agency
- ☐ Regulated Entity
- ☐ State
- ☐ EPA Headquarters
- ☐ Epic
- ☒ Other
- ☐ Private
- ☐ SNAP
- ☐ Tribe
- ☐ Unknown
- ☐ (Blank)

Designate Lat/Long:
- ☐ Primary
- ☐ NPL Coordinate

*Collection Method:
- ☐ Address Matching -House Number
- ☐ Address Matching - Block Face
- ☐ Address Matching - Street Centerline
- ☐ Census Block - 1990 - Centroid
- ☐ Census Block/Group 1990-Centroid
- ☐ Census Block/Tract - 1990 - Centroid
- ☐ Census - Other
- ☐ GPS Carrier Phase Static Relative Position
- ☐ GPS Carrier Phase Kinematic Relative Position
- ☐ GPS, with Canadian Active Control System
- ☐ Interpolation-Digital Map Source (TIGER)
- ☐ Interpolation-Map
- ☐ Interpolation -MSS
- ☐ Address Matching -Nearest Intersection
- ☐ Address Matching - Primary Name
- ☐ Address Matching - Digitized
- ☐ ZIP+2 Centroid
- ☐ ZIP+4 Centroid
- ☐ ZIP Code - Centroid
- ☐ GPS Code (Pseudo Range) Differential
- ☐ GPS Code (Pseudo Range) Precise Position
- ☐ GPS Code (Pseudo Range) Standard Position (SA-Off)
- ☐ GPS Code (Pseudo Range) Standard Position Service SA-On
- ☐ Interpolation -Photo
- ☒ Interpolation – Satellite
- ☐ Interpolation - SPOT
- ☐ Address Matching - Other
- ☐ Public Land Survey-Footing
- ☐ Public Land Survey-Section
- ☐ Public Land Survey-Quarter Section
- ☐ Public Land Survey-Eighth Section
- ☐ Public Land Survey-Sixteenth Section
- ☐ GPS-Unspecified
- ☐ Classical Surveying Techniques
- ☐ LORAN
- ☐ Unknown
- ☐ Interpolation-TM
- ☐ Interpolation - Other

*Reference Point:
- ☐ Administrative Building
- ☐ Air Monitoring Station
- ☐ Air Release Stack
- ☐ Air Release Vent
- ☐ Atmos. Emissions Trtmnt Unit
- ☐ Boundary Point
- ☐ Building Entrance
- ☒ Facility/Centroid Cent
- ☐ Facility/Station Bldg Entrance
- ☐ Intake Point
- ☐ Lagoon or Settling Pond
- ☐ Liquid Waste Treatment Unit
- ☐ Loading Area Centroid
- ☐ Loading Facility
- ☐ Monitoring Point
- ☐ NE Corner of Land Parcel
- ☐ NW Corner of Land Parcel
- ☐ Other
- ☐ Plant Entrance (Freight)
- ☐ Plant Entrance (General)
- ☐ Plant Entrance (Personnel)
- ☐ Process Unit Area Centroid
- ☐ Process Unit
- ☐ Release Point
- ☐ SE Corner of Land Parcel
- ☐ Solid Waste Storage Area
- ☐ Solid Waste Trtmnt/Disp. Unit
- ☐ Storage Tank
- ☐ SW Corner of Land Parcel
- ☐ Treatment/Storage Plant
- ☐ Unknown
- ☐ Water Monitoring Station
- ☐ Water Release Pipe
- ☐ Well
- ☐ Well Protection Area

*Reference Datum: ☐ NAD27 ☐ NAD83 ☐ Other ☒ Unknown ☐ WGS84

*Accuracy Meters +/-: ☒ *Accuracy Unknown *Collection Date:

Verification Method:
- ☐ Ground Truth Conducted
- ☐ Point In Polygon (County)
- ☐ Point in Polygon (Zip)
- ☐ Point in Polygon (Other)
- ☐ Proximity to Alternative Facility Coordinate
- ☐ Proximity to Polygon Centroid (County)
- ☐ Proximity to Polygon Centroid (Other)
- ☐ Proximity to Polygon Centroid (Zip Code)
- ☐ Verified Relative to Map Features (1:100K/Tiger)
- ☐ Verified Relative to Map Features (1:24K)
- ☐ Verified Relative to Map Features (Other)
- ☐ Verified, Unknown Method
- ☒ Not Verified
- ☐ Blank

*Point/Line/Area: ☐ AREA ☐ LINE ☒ POINT ☐ REGION ☐ ROUTE ☐ BLANK

*Source Map Scale:
- ☐ 1:10,000
- ☐ 1:12,000
- ☐ 1:15,840
- ☐ 1;20,000
- ☐ 1:24,000
- ☐ 1:25,000
- ☐ 1:50,000
- ☐ 1:62,500
- ☐ 1:63,360
- ☐ 1:100,000
- ☐ 1:125,000
- ☐ 1:250,000
- ☐ 1:500,000
- ☐ NONE
- ☒ UNKNOWN

☐ OTHER

COMMENTS:

Signatures:

RPM/OSC: **Date:**

Branch Chief: **Date:**

Comment A: A sequential number to indicate the order in which points on a line or area are connected. For an area, the maximum point is connected to the first. Required if the feature is polygonal or linear 3 numeric.

REGION VII U.S. EPA SUPERFUND
NO DISCOVERY DATE

PRE-CERCLIS INITIATION FORM

(Required information marked with a * and in red)
NPL Status = O-Not a Valid Site or Incident

*Site Name: VOC-Harald Lamberts Properties *Identified By: ☐ Removal ☒ Site Assessment ☐ Federal Facilities ☐ States ☐ Other Federal Agency Check if: ☐ FUD Site

*Address: 7015-7021 and 7025 Douglas Avenue *County: Polk

*City, State, Zip: Urbandale, IA 50111 State ID (if one exists): Congressional District: Iowa 3rd

NPL Status = O-Not a Valid Site or Incident Federal Facility Indicator: ☐ Federal Facility ☒ Not a Federal Facility ☐ Status Undetermined

*Section:

☐ C-(STAR) SPFD Technical Assistance/Re-Use Branch ☐ L-(EFLR) Enfr/Fund Lead RV Branch ☐ F-(FFSE) Federal Facilities/Special Emphasis Branch
☐ M-(MOKS) MO/KS remedial Branch ☒ I-(IANE) IA/NE Remedial Branch ☐ O-(ER&R) Emergency Response & RV Branch

List Site Alias Name(s): None

Directions to Site: The Site is at the givein address.

Site Description: The site has three buildings and a parkng lot

*Latitude: 41.6295 *Longitude: 93.7133 USGS Quadrant: Des Moines NW USGS Hydro Unit:

(Decimal Degree Format) (with release of 3.17 see attached required location data form

Lat/Long Accuracy: ☐ Seconds ☒ Degrees ☐ Minutes ☐ Miles ☐ Feet ☐ Kilometers ☐ Meters

*Owner Operator Type:
☐ Federally-Owned ☐ Other ☐ Trustee, Federal
☐ Bank/Loan Company ☐ Former Federally Owned or Operated ☒ Private ☐ Trustee, State
☐ Brownfields/Public ☐ Government Owned/Contractor Operated ☐ Privately Owned/Government Operated ☐ Unknown
☐ County Owned ☐ Mixed Ownership ☐ Property Defaulted Back to Government
☐ District Owned ☐ Municipality ☐ State Owned

*Operational Status: ☒ Active ☐ Inactive ☐ Unknown ☐ Blank Native American Interest: ☐ Yes ☐ No

*Non-NPL Status (Choose one): ☒ Not a Valid Site or Incident ☐ Not a Valid Site or Incident: RCRA Lead ☐ Not a Valid Site or Incident: State Lead ☐ Not a Valid Site or Incident: NRC Lead ☐ Not a Valid Site or Incident: Tribal Lead

*Add Action: OU 00 *PRE-CERCLIS SCREENING: *Planned Complete: *Actual Complete:

*Lead code (choose one) ☐ F-EPA Fund Financed ☐ FF - Federal Facility ☐ S - State, Fund Financed

SCAP Note:

Add below Action (if No Further Action): OU 00 Lead: EP ☐ PRE-CERCLIS ARCHIVE Actual Complete:

SCAP Note: Comments: ☐ Site or ☐ Action:

*Site Type: (Choose all that apply; for every main category chosen, in bold, at least one sub-category must be selected; if more than one main and sub-category is selected indicate which is primary)

Primary Designation: OT

☐ **MP-Manufacturing/Processing/Maintenance** - *Applicable sub-categories:*
- ☐ CA-Chemicals and allied products
- ☐ CG-Coal gasification
- ☐ CP-Coke production
- ☐ EP-Electric power generation and distribution
- ☐ FT-Fabrics/textiles
- ☐ EE-Electronic/electrical equipment
- ☐ LW-Lumber and wood products/pulp and paper
- ☐ WP-Lumber and wood products/ wood preserving/ preserving/ treatment
- ☐ MF-Metal fabrication/finishing/coating and allied industries
- ☐ OR-Oil and gas refining
- ☐ OP-Ordnance production
- ☐ OT-Other-Description (needed):
- ☐ PR-Plastics and rubber products
- ☐ PM-Primary metals/mineral processing
- ☐ RA-Radioactive products
- ☐ TA-Tanneries
- ☐ TS-Trucks/ships/trains/aircraft and related components

☐ **RE-Recycling** - *Applicable sub-categories*
- ☐ AT-Automobiles/tires
- ☐ BS-Batteries/scrap metals/secondary smelting/precious metal recovery
- ☐ CC-Chemicals/chemical waste (e.g., solvent recovery)
- ☐ DT-Drums/tanks
- ☐ OT-Other-Description (needed):
- ☐ WO-Waste/used

☐ **MI-Mining** - *Applicable sub-categories*
- ☐ CO-Coal
- ☐ ME-Metals
- ☐ NM-Non-metal minerals
- ☐ OG-Oil and Gas
- ☐ OT-Other-Description (needed):

☐ **WM-Waste Management** - *Applicable sub-categories*
- ☐ CL-Co-disposal landfill (municipal and industrial)
- ☐ ID-Illegal disposal/open dump
- ☐ IF-Industrial waste facility (non-generator)
- ☐ MD-Mine tailings disposal
- ☐ OT-Other-Description (needed):
- ☐ ML-Municipal solid waste landfill
- ☐ RW-Radioactive waste treatment, storage, disposal (non-generator)

☒ **OT-Other** - *Applicable sub-categories*
- ☐ AG-Agricultural (e.g., grain elevator)
- ☐ CS-Contaminated sediment site with no identifiable source
- ☐ DC-Dust control
- ☐ OT-Other-Description (needed):
- ☐ GP-Ground water plume site with no identifiable source
- ☐ MO-Military/Other Ordinance
- ☐ PS-Product Storage/distribution
- ☒ RC-Retail/commercial
- ☐ RD-Research, development, and testing facility
- ☐ SE-Spill or other one-time event
- ☐ TP-Transportation (e.g., railroad yards, airport, barge docking, site)
- ☐ TW-Treatment works/septic tanks/other sewage treatment

Signatures:
States: Amii Davidson Date: 8-21-18
RPM/OSC/SAM: Date:

Site Map

Harald Lamberts Property
7015-7021 and 7025 Douglas Avenue
Urbandale, Iowa

SCALE 1 in. = 50 ft.

BORING LOG NO. TB-1

Project No.: 183156

Project: Harald Lamberts Property
7015-7021 and 7025 Douglas Avenue
Urbandale, Iowa

Client: Midwest Heritage Bank
3580 EP True Parkway
West Des Moines, Iowa

Surface Elevation: 968
Datum: USGS NGVD

Date Drilled: 7/30/2018
Drilling Depth: 20

Drilling Method 4" CFA
Page 1 of 1

Elevation ft.	Depth ft.	Sample No.	Type	PID (PPM)	Odor	Material Description*	Graphic Log	USCS	Water Level	Well Detail
	0					Concrete				
		LBT-1	A	0.3		Very dark gray lean clay, trace cinders and sand, slightly moist				
				0.5		FILL		CL		
						Very dark gray lean clay, trace sand, slightly moist TOPSOIL				
				0.5		Brown lean clay, trace sand and gravel, moist				
960				0.5						
	10			0.4		GLACIAL TILL				
		LBT-1	B	0.5						
				0.4		Gray fat clay, moist after 14.5'		CH		
950				0.3					▼	
	20					End of Boring				
940										
	30									

*The stratification lines represent the approximate boundary lines between material types: in-situ, the transition may be gradual.

Water Level Observation

Time: at completion 0.5 hrs. ____ days

Depth to water: Dry ft. ▽ 18.12 ft. ▼ ____ ft. ▼

ALLENDER BUTZKE ENGINEERS, INC.

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ABEWELL

BORING LOG NO. TB-2

Project No.: 183156

Project: Harald Lamberts Property
7015-7021 and 7025 Douglas Avenue
Urbandale, Iowa

Client: Midwest Heritage Bank
3580 EP True Parkway
West Des Moines, Iowa

Surface Elevation: 969
Datum: USGS NGVD

Date Drilled: 7/26/2018
Drilling Depth: 18.5

Drilling Method 4" CFA
Page 1 of 1

Elevation ft.	Depth ft.	Sample No.	Type	PID (PPM)	Odor	Material Description*	Graphic Log	USCS	Water Level	Well Detail
970	0					Asphalt				
		LBT-2	A	0.1		Very dark gray lean clay, trace sand, slightly moist TOPSOIL		CL		
				0.1		Brown lean clay, trace sand and gravel, moist		CL		
				0.1						
				0.1						
960	10			0.1		GLACIAL TILL			▼	
		LBT-2	B	0.1		Brown fat clay, moist to very moist after 12'		CH		
				0.1						
				0.1		Gray after 16.5 feet			▽	
950	20					End of Boring				
940	30									

*The stratification lines represent the approximate boundary lines between material types: in-situ, the transition may be gradual.

Water Level Observation

Time: at completion 0.5 hrs. ____ days

Depth to water: 16.58 ft. ▽ 10.91 ft. ▼ ____ ft. ▼

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Geotechnical - Environmental - Construction Q.C.

ABEWELL

BORING LOG NO. TB-3

Project No.: 183156

Project: Harald Lamberts Property
7015-7021 and 7025 Douglas Avenue
Urbandale, Iowa

Client: Midwest Heritage Bank
3580 EP True Parkway
West Des Moines, Iowa

Surface Elevation: 972
Datum: USGS NGVD

Date Drilled: 7/26/2018
Drilling Depth: 18.5

Drilling Method 4" CFA
Page 1 of 1

Elevation ft.	Depth ft.	Sample No.	Type	PID (PPM)	Odor	Material Description*	Graphic Log	USCS	Water Level	Well Detail
970	0	LBT-3	A	0.2		Asphalt and gravel				
						Very dark brown lean clay, trace sand, slightly moist		CL		
				0.1		TOPSOIL		CH		
						Gray green fat clay, trace sand, moist		CL		
				0.1		Brown sandy lean clay, trace gravel, moist after 2'				
						Very moist to wet at 6.5'			▽	
				0.1						
960	10	LBT-3	B	0.1		GLACIAL TILL				
				0.1						
						Brown fat clay moist after 13'		CH		
				0.1						
						Gray after 16.5 feet				
950	20			0.1						
						End of Boring				
	30									

*The stratification lines represent the approximate boundary lines between material types: in-situ, the transition may be gradual.

Water Level Observation

Time: at completion ____ hrs. ____ days

Depth to water: 8.33 ft. ▽ ____ ft. ▽ ____ ft. ▽

ALLENDER BUTZKE ENGINEERS, INC.

Geotechnical - Environmental - Construction Q.C.

ABEWELL