



301 East Main Street
Lowell, Michigan 49331
Phone (616) 897-8457
Fax (616) 897-4085

CITY OF LOWELL
CITY COUNCIL AGENDA
SEPTEMBER 6, 2022

1. CALL TO ORDER; PLEDGE OF ALLEGIANCE; ROLL CALL

2. CONSENT AGENDA

- Approval of the Agenda.
- Approve and place on file the minutes of the August 15, 2022 regular and closed session meetings.
- Authorize payment of invoices in the amount of \$1,245,173.08.

3. CITIZEN DISCUSSION FOR ITEMS NOT ON THE AGENDA

IF YOU WISH TO ADDRESS AN AGENDA ITEM, PUBLIC COMMENT FOR EACH ITEM WILL OCCUR AFTER THE INITIAL INFORMATION IS SHARED ON THE MATTER AND INITIAL DELIBERATIONS BY THE PUBLIC BODY. PUBLIC COMMENT WILL OCCUR BEFORE A VOTE ON THE AGENDA ITEM OCCURS.

4. OLD BUSINESS

- a. Front Street Property
- b. 115 Riverside

5. NEW BUSINESS

- a. Gee Drive MDOT Small Urban Contract - Resolution 25-22
- b. Prisoner of War/Missing in Action Recognition Day – Resolution 26-22
- c. Off Premises Tasting Room License
- d. Michigan Municipal League Annual Meeting Notice
- e. YMCA Soccer Park Use Agreement
- f. Surplus Equipment

6. BOARD/COMMISSION REPORTS

7. MANAGER'S REPORT

8. APPOINTMENTS

9. COUNCIL COMMENTS

10. CLOSED SESSION

- a. MCL 15.268(1)(h) – To consider material exempt from discussion or disclosure by state or federal statute.

11. ADJOURNMENT

NOTE: Any person who wishes to speak on an item included on the printed meeting agenda may do so. Speakers will be recognized by the Chair, at which time they will be allowed five (5) minutes maximum to address the Council. A speaker representing a subdivision association or group will be allowed ten (10) minutes to address the Council.



301 East Main Street
Lowell, Michigan 49331
Phone (616) 897-8457
Fax (616) 897-4085
www.ci.lowell.mi.us

MEMORANDUM

TO: Lowell City Council

FROM: Michael Burns, City Manager

RE: Council Agenda for **Tuesday**, September 6, 2022

1. CALL TO ORDER; PLEDGE OF ALLEGIANCE; ROLL CALL
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4. OLD BUSINESS

- a. Front Street Property - City Manager Michael Burns provide a memo.

Renee Pewitt from BLDI will review with you and discuss next steps.

- b. 115 Riverside – City Manager Michael Burns provided a memo.

Recommendation: There is no recommended motion.

5. NEW BUSINESS

- a. Gee Drive MDOT Small Urban Contract – Resolution 25-22 – City Manager Michael Burns provided a memo.

Recommended Motion: That the Lowell City Council adopt Resolution 25-22, approving the MDOT agreement for the Gee Drive resurfacing project, and authorizes Mr. Michael Burns, City Manager, to act as agent on behalf of the City of Lowell to sign the contract documents with MDOT, Contract #22-5395.

b. Prisoner of War/Missing in Action Recognition Day – Resolution 26-22.

Tom Sibley from Vietnam Veterans of America provided a letter.

c. Off Premises Tasting Room License - Resolution 27-22. City Manager Michael Burns provided a memo.

Recommended Motion: That the Lowell City Council approve for Red Barn Antiques to seek and Off-Premises Tasting Room License for 217 W. Main St.

d. Michigan Municipal League Annual Meeting Notice. A letter is provided by Michigan Municipal League.

Recommended Motion: That the Lowell City Council designate one official and one alternate to attend the Convention as the City of Lowell's official representative to cast a vote of the municipality at the Annual Meeting.

e. YMCA Soccer Park Use Agreement. Public Works Director Daniel Czarnecki provided a memo.

Recommended Motion: That the Lowell City Council approve the agreement with the YMCA of Greater Grand Rapids as presented and authorize the Mayor to sign the agreement.

f. Surplus Equipment. Public Works Director Daniel Czarnecki provided a memo.

Recommended Motion: There is no recommended Motion.

6. BOARD/COMMISSION REPORTS

7. MANAGER'S REPORT

8. APPOINTMENTS

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10. CLOSED SESSION

- a. MCL 15.268(1)(h) – To consider material exempt from discussion or disclosure by state or federal statute.

11. ADJOURNMENT

**CITY OF LOWELL
KENT COUNTY, MICHIGAN**

RESOLUTION NO. 24-22

**RESOLUTION DIRECTING THE NEGOTIATION AND EXECUTION OF
A PURCHASE AND DEVELOPMENT AGREEMENT IN CONNECTION
WITH THE SALE OF A CITY-OWNED PROPERTY COMMONLY
REFERRED TO AS THE LINESHACK PROPERTY TO COPPERROCK
CONSTRUCTION**

Councilmember SALZWEDEL supported by Councilmember YANKOVICH moved the adoption of the following resolution:

WHEREAS, in accordance with the requirements of Section 13.3 of the City Charter, after advertising twice for bids on the sale of the City-owned property consisting of approximately 0.10 acres with an approximately 1,800 square foot building located at 115 Riverside Drive commonly referred to as the Lineshack Property (the “City Property”), receiving bids, and holding a public hearing where bidders were heard, the City Council adopted Resolution No. 21-22 authorizing the sale; and

WHEREAS, Resolution No. 21-22 has remained on file with the City Clerk for public inspection for at least 20 days since its adoption and now returns in the manner passed; and

WHEREAS, in accordance with Section 13.3 of the City Charter, the City Council has determined to finally approve the sale of the City Property to Copperrock Construction; and

WHEREAS, the sale is subject to certain requirements to be formally agreed to by contract as set forth in the City’s request for proposals for purchase and development and as proposed by Copperrock Construction.

NOW, THEREFORE, BE IT RESOLVED:

1. That, subject to the execution of a Purchase and Development Agreement upon terms acceptable to the City Manager and in a form approved by the City Attorney, the City shall

sell and convey the City Property to Copperrock Construction for \$100,000 pursuant to a quit claim deed.

2. That the Mayor and City Clerk are authorized to execute (1) a Purchase and Development Agreement consistent with the City's request for proposals for purchase and development and Copperrock Construction's proposal, (2) a quit claim deed for and on behalf of the City approved as to form by the City Attorney, and (3) other documents necessary to effectuate the transaction.

3. That the City Clerk shall record, or cause to be recorded, the Purchase and Development Agreement and quit claim deed with the Kent County, Michigan, Register of Deeds.

4. That all resolutions or parts of resolutions in conflict herewith shall be and the same are hereby rescinded to the extent of such conflict.

YEAS: Councilmembers Chambers and Groves

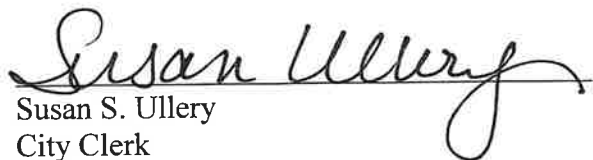
NAYS: Mayor DeVore, Councilmembers Salzwedel and Yankovich

ABSTAIN: Councilmembers None

ABSENT: Councilmembers None

RESOLUTION DECLARED ADOPTED.

Dated: August 15, 2022


Susan S. Ullery
City Clerk

CERTIFICATION

I hereby certify that the foregoing is a true and complete copy of a resolution adopted by the City Council of the City of Lowell at a regular meeting held on August 15, 2022 and that public notice of said meeting was given pursuant to, and in compliance with, Act 267 of the Public Acts of Michigan of 1976, as amended.

Dated: August 15, 2022


Susan S. Ullery
City Clerk

**CITY COUNCIL
CITY OF LOWELL
KENT COUNTY, MICHIGAN**

RESOLUTION NO. 22 - 22

**A RESOLUTION AMENDING AN EXISTING SOCIAL
DISTRICT AND COMMONS AREA TO ALLOW CERTAIN
ON-PREMISES LIQUOR LICENSEES EXPANDED USE OF
SHARED AREAS FOR CONSUMPTION OF ALCOHOL
AND APPROVING AND RECOMMENDING MICHIGAN
LIQUOR CONTROL COMMISSION CONSIDERATION
AND APPROVAL OF LICENSEE FOR SOCIAL DISTRICT
PERMIT PURSUANT TO THE MICHIGAN LIQUOR
CONTROL CODE**

Mayor DEVORE supported by Councilmember SALZWEDEL moved the adoption of the following resolution:

WHEREAS, the Michigan Liquor Control Code, 1998 PA 58, as amended (the “Act”), allows the governing body of a local governmental unit to designate social districts and commons areas which may be used by qualified licensees that obtain a social district permit from the Michigan Liquor Control Commission (MLCC) to utilize the commons areas for the consumption of alcohol; and

WHEREAS, if the governing body of a local governmental unit designates a social district that contains a commons area, the governing body must define and clearly mark the commons area with signs, establish local management and maintenance plans including, but not limited to, hours of operation and submit those plans to the MLCC, and maintain the commons areas in a manner that protects the health and safety of the community; and

WHEREAS, the City Council previously determined that a social district was in the best interest of the citizens of the City of Lowell, and designated a social district and commons area pursuant to the Act; and

WHEREAS, the City Council must approve licensee applications for social district permits prior to such applications being sent to the MLCC for consideration and issuance; and

WHEREAS, Sabor Mexicano, a licensee business located at 109 Riverside Drive, Lowell MI 49331 (the “Applicant Licensee”), has applied for a social district permit; and

WHEREAS, the Applicant Licensee would be eligible for consideration for a social district permit if its premises were within the boundaries of the social district and commons area;

WHEREAS, City Council recognizes that restaurants and bars are key contributors to the vitality of the City of Lowell and welcomes their participation in the benefits of the social district; and

WHEREAS, City Council now desires to expand the boundaries of the social district and common areas such that the premises of the Applicant Licensee will be shared by and contiguous to the designated commons area and in the social district as required by the Act.

NOW, THEREFORE, RESOLVED THAT:

1. The City Council hereby designates and amends the social district and commons area as provided on the attached map and authorizes the City Manager or his designee to take all such other actions necessary in order to implement this Resolution and comply with the Act.

2. The commons area within the social district shall be maintained as on the attached maps with the City Manager, or designee, authorized to make minor reasonable adjustments to the limits of the commons areas required by regulatory or operational requirements or to safeguard the public health, safety, and welfare.

3. The commons area is contiguous to at least 2 qualified licensees.

4. Signage shall be placed to define and clearly mark the limits of the commons areas.

5. The social district shall exclude premises authorized by the MLCC under a special license during the effective period of the special license.

6. The commons area shall be maintained in a manner that protects the health and safety of the community.

7. The licensed premises of the aforementioned Applicant Licensee is shared by and contiguous to the commons area as now designated by this City Council pursuant to MCL 436.1551.

8. The City Council hereby finds that the application for a social district permit from the Applicant Licensee set forth on the attachment hereto is recommended by this body for approval by the MLCC.

9. The City Clerk is authorized and directed to forward this Resolution and the attached map and management and maintenance plan to the MLCC as required by the Act.

10. All resolutions and parts of resolutions in conflict herewith are rescinded.

YEAS: Councilmembers Salzwedel, Yankovich, Chambers, Groves and Mayor

DeVore

NAY: Councilmembers None

ABSTAIN: Councilmembers None

ABSENT: Councilmembers None

RESOLUTION DECLARED ADOPTED

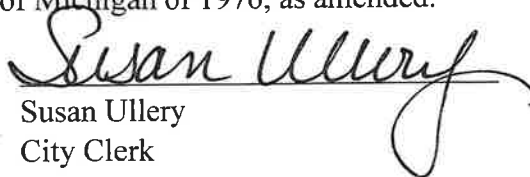
Dated: August 15, 2022


Susan Ullery
City Clerk

CERTIFICATION

I, the undersigned duly qualified and acting Clerk of the City of Lowell (the "City"), do hereby certify that the foregoing is a true and complete copy of a resolution adopted by the City Council of the City at a regular meeting held on August 15, 2022, and that public notice of said meeting was given pursuant to Act 267 of the Public Acts of Michigan of 1976, as amended.

Dated: August 15 2022


Susan Ullery
City Clerk

**CITY COUNCIL
CITY OF LOWELL
KENT COUNTY, MICHIGAN**

RESOLUTION NO: 23-22

**RESOLUTION PROCLAIMING THURSDAY, SEPTEMBER 1, 2022
AS PINK ARROW PRIDE DAY - ARROW FORCE XV
IN THE CITY OF LOWELL**

Mayor DEVORE supported by Councilmember YANKOVICH moved the adoption of the following resolution:

WHEREAS, many have been afflicted and battling cancer and breast cancer in particular; and

WHEREAS, the Lowell High School football team, volleyball team, and soccer team, will once again compete against this disease with each player wearing pink for games on Thursday, September 1, 2022; and

WHEREAS, the Lowell community is encouraged to buy and wear Pink Arrow Force XV t-shirts to support Gilda's Club of Lowell, Lowell Community Wellness for Pink Arrow Family Support, the Dr. Don Gerard Medical Scholarship and the Kathy Talus Scholarship.

NOW, THEREFORE, BE IT RESOLVED, that the Lowell City Council recognize Thursday, September 1, 2022 as "Pink Arrow Pride Day Arrow Force XV" and further to encourage all Lowell Community residents to participate in this event by purchasing pink T-shirts and attending the game.

YEAS: Councilmembers Groves, Mayor DeVore, Councilmembers Salzwedel, Yankovich and Chambers

NAYS: Councilmembers None

ABSTAIN: Councilmembers None

ABSENT: Councilmembers None

RESOLUTION DECLARED ADOPTED.

Dated: August 15, 2022


Susan Ullery, City Clerk

CERTIFICATION

I, the undersigned duly qualified and acting Clerk of the City of Lowell, Kent County, Michigan, do hereby certify that the foregoing is a true and complete copy of a resolution adopted by the City Council at a regular meeting held on August 15, 2022, the original of which is on file in my office and public notice of said meeting was given pursuant to and in compliance with Act 267 of the Public Acts of Michigan of 1976, as amended.

IN WITNESS WHEREOF, I have affixed my official signature the 15th day of August, 2022.


Susan Ullery, City Clerk

CITY OF LOWELL
KENT COUNTY, MICHIGAN

ORDINANCE NO. 22-04

AN ORDINANCE TO AMEND SECTION 3.02, "DISTRICT
BOUNDARIES," OF CHAPTER 3, "ZONING DISTRICTS - GENERAL,"
OF APPENDIX A, "ZONING," OF THE CODE OF ORDINANCES OF
THE CITY OF LOWELL

Councilmember YANKOVICH supported by Councilmember SALZWEDEL moved the adoption of the following ordinance:

THE CITY OF LOWELL ORDAINS:

Section 1. Amendment to Section 3.02 of Chapter 3. Section 3.02, "District boundaries," of Chapter 3, "Zoning Districts - General," of Appendix A, "Zoning," of the Code of Ordinances of the City of Lowell is amended to amend the zone district classification of real property located at 815 W. Main Street, Permanent Parcel No. 41-20-02-352-009, 807 W. Main Street, Permanent Parcel No. 41-20-02-352-022, and 803 W. Main Street, Permanent Parcel No. 41-20-02-352-023 to C-1 -Neighborhood Business.

Section 2. Publication. After its adoption, the City Clerk shall publish this ordinance or a summary thereof, as permitted by law, along with its date of adoption in the Lowell Ledger, a newspaper of general circulation in the City, at least ten (10) days before its effective date.

Section 3. Effective Date. This ordinance shall take effect ten (10) days after it, or a summary thereof, as permitted by law, along with the date of its adoption, is published in the Lowell Ledger, a newspaper of general circulation in the City.

YEAS: Councilmembers Mayor DeVore, Councilmembers Salzwedel, Yankovich,
Chambers and Groves

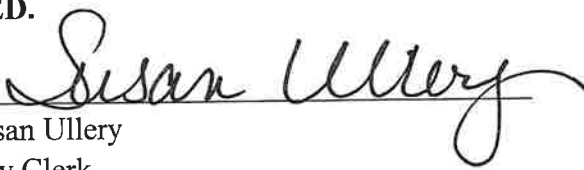
NAYS: Councilmembers None

ABSTAIN: Councilmembers None

ABSENT: Councilmembers None

ORDINANCE DECLARED ADOPTED.

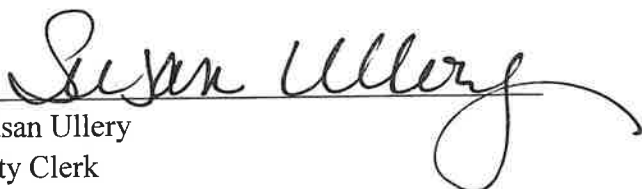
Dated: August 15, 2022


Susan Ullery
City Clerk

CERTIFICATION

I, the undersigned City Clerk of the City of Lowell, Michigan (the "City"), certify that the above ordinance is a true and complete copy of an ordinance adopted at a regular meeting of the Lowell City Council held on August 15, 2022 pursuant to notice given in compliance with Act 267 of the Public Acts of Michigan of 1976, as amended, and notice of its adoption, including a summary of its contents and its effective date, was published in the Buyers Guide, on August 21, 2022. I further certify that the above ordinance was entered into the Ordinance Book of the City on August 31, 2022 and was effective August 31, 2022 ten (10) days after publication.

Dated: August 15, 2022


Susan Ullery
City Clerk

09/01/2022 01:38 PM

User: SUEU

DB: Lowell

INVOICE APPROVAL BY INVOICE REPORT FOR CITY OF LOWELL

EXP CHECK RUN DATES 08/13/2022 - 09/01/2022

BOTH JOURNALIZED AND UNJOURNALIZED

BOTH OPEN AND PAID - CHECK TYPE: PAPER CHECK

Page: 1/3

Vendor Code	Vendor Name	Description	Amount
Invoice			
01513	ADDORIO TECHNOLOGIES, LLC		
9387		CITY HALL COMPUTER SERVICES	464.26
9392		DPW COMPUTER SERVICES	121.02
9394		LPD COMPUTER SERVICES	595.00
TOTAL FOR: ADDORIO TECHNOLOGIES, LLC			1,180.28
00007	ADT SECURITY SYSTEMS, INC.		
9/1 -11/30		WTP MONITORING	133.53
TOTAL FOR: ADT SECURITY SYSTEMS, INC.			133.53
10816	AMAZON CAPITAL SERVICES		
11VK-HTHD-TMT9		PARKS WASP/HORNET SPRAY	32.22
19Q1-KYRV-3D97		DPW EQUIPMENT	642.24
1CHJ-49XG-3JHJ		WTP SUPPLIES	29.98
1NP1-C6JN-1PGH		EQUIPMENT	34.90
1QC4-HVPE-WNX3		WATER & DPW SIUPPLIES	32.66
TOTAL FOR: AMAZON CAPITAL SERVICES			772.00
10818	AT&T MOBILITY		
8/6/2022		FIRST NET PHONE BILL	961.01
TOTAL FOR: AT&T MOBILITY			961.01
00045	BARTLETT, SANDY		
AUG 2022		METER READS & MILEAGE	772.40
TOTAL FOR: BARTLETT, SANDY			772.40
10509	CONSUMERS ENERGY		
2022 AUG		ACCOUNT STATEMENT	1,100.51
7/21 - 8/18		ACCOUNT STATEMENTS	220.53
TOTAL FOR: CONSUMERS ENERGY			1,321.04
REFUND TAX	corelogic centralized refunds		
08/26/2022		2022 Sum Tax Refund 41-20-03-408-003	791.28
TOTAL FOR: corelogic centralized refunds			791.28
00126	CRYSTAL FLASH		
8509750		AIRPORT REC GAS	1,508.49
TOTAL FOR: CRYSTAL FLASH			1,508.49
10978	ENGINEERED PROTECTION SYSTEMS		
8/12/2022		REFUND ELECTRIC PERMIT YMCA	400.00
TOTAL FOR: ENGINEERED PROTECTION SYSTEMS			400.00
10976	GATOR MOWING LLC		
1099		MOWING AT 523 ELM	100.00
TOTAL FOR: GATOR MOWING LLC			100.00
00225	GRAND RAPIDS COMMUNITY COLLEGE		
8/1 - 8/15/2022		TAX DISBURSEMENT	51,447.18
TOTAL FOR: GRAND RAPIDS COMMUNITY COLLEGE			51,447.18
01285	GREAT LAKES PAVING		
9348		WASHINGTON ST	900.00
9358		OVERLAY KING & NORTH AT MONROE	5,015.00
TOTAL FOR: GREAT LAKES PAVING			5,915.00
10918	GREAT LAKES UPFITTING		
3458		LPD RCEIPT PAPER ROLLS	95.00
TOTAL FOR: GREAT LAKES UPFITTING			95.00

09/01/2022 01:38 PM

INVOICE APPROVAL BY INVOICE REPORT FOR CITY OF LOWELL

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User: SUEU

EXP CHECK RUN DATES 08/13/2022 - 09/01/2022

DB: Lowell

BOTH JOURNALIZED AND UNJOURNALIZED

BOTH OPEN AND PAID - CHECK TYPE: PAPER CHECK

Vendor Code	Vendor Name	Description	Amount
Invoice			
00300	KENT COUNTY TREASURER		
8/1 - 8/15/2022	TAX DISBURSEMENT		492,207.20
8/19/2022	TRAILER FEES JULY & AUGUST		547.50
TOTAL FOR: KENT COUNTY TREASURER			492,754.70
00302	KENT INTERMEDIATE SCHOOL DIST.		
8/1 - 8/15/2022	TAX DISBURSEMENT		291,433.41
TOTAL FOR: KENT INTERMEDIATE SCHOOL DIST.			291,433.41
02209	KERKSTRA PORTABLE, INC.		
207182	PORTABLE RESTROOM CEMETERY		150.00
207561	PORTABLE RESTROOM DDA		500.00
TOTAL FOR: KERKSTRA PORTABLE, INC.			650.00
01374	LOWELL AREA HISTORICAL MUSEUM		
8/1 - 8/15/2022	TAX DISBURSEMENT		7,088.60
TOTAL FOR: LOWELL AREA HISTORICAL MUSEUM			7,088.60
00562	LOWELL AREA SCHOOLS		
8/1 - 8/15/2022	TAX DISBURSEMENT		354,228.04
TOTAL FOR: LOWELL AREA SCHOOLS			354,228.04
00341	LOWELL LIGHT & POWER		
3631	COMCAST/SPECTROTTEL/GTT		1,935.50
TOTAL FOR: LOWELL LIGHT & POWER			1,935.50
10311	MI ASSOC OF MAYORS		
8/16/2022	2022 MEMBERSHIP - DEVORE		85.00
TOTAL FOR: MI ASSOC OF MAYORS			85.00
00414	MICHIGAN MUNICIPAL LEAGUE		
24976	CLASSIFIED AD - DEPUTY TREASURER		55.44
TOTAL FOR: MICHIGAN MUNICIPAL LEAGUE			55.44
00434	MICHIGAN RURAL WATER ASSOC.		
2020-05143	LEAK DETECTION & LINE LOCATING - BRECKEN		155.00
TOTAL FOR: MICHIGAN RURAL WATER ASSOC.			155.00
10356	NELSON, ERIC		
8/22/2022	AIRPORT SUPPLIES		60.18
TOTAL FOR: NELSON, ERIC			60.18
10357	NORTHERN PUMP & WELL INC.		
22-J2336	ANNUAL INSPECTION		1,000.00
TOTAL FOR: NORTHERN PUMP & WELL INC.			1,000.00
02020	OTIS ELEVATOR CORPORATION		
CVG19335001	ELEVATOR SERVICE CALL		997.50
TOTAL FOR: OTIS ELEVATOR CORPORATION			997.50
REFUND TAX	PFCU CREDIT UNION		
08/26/2022	2022 Sum Tax Refund 41-20-02-381-014		1,306.99
TOTAL FOR: PFCU CREDIT UNION			1,306.99
10898	POINT BROADBAND		
5267-20220817-1	INTERNET SERVICES		319.99
TOTAL FOR: POINT BROADBAND			319.99

09/01/2022 01:38 PM

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DB: Lowell

INVOICE APPROVAL BY INVOICE REPORT FOR CITY OF LOWELL

EXP CHECK RUN DATES 08/13/2022 - 09/01/2022

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BOTH OPEN AND PAID - CHECK TYPE: PAPER CHECK

Page: 3/3

Vendor Code	Vendor Name Invoice	Description	Amount
00506	POSTMASTER 08312022	MAILING W/S BILLS	518.73
TOTAL FOR: POSTMASTER			518.73
10972	PURCHASE POWER 8/10/2022	POSTAGE METER	69.85
TOTAL FOR: PURCHASE POWER			69.85
10977	RAY'S WELDING 8/15/2022	WELING FOR GEE DR RESERVOIR	3,600.00
TOTAL FOR: RAY'S WELDING			3,600.00
10662	SKYLINE ELECTRIC, INC 1747	REC PARK BASEBALL FIELD LIGHTS	595.00
	1756	STONEY LAKESIDE PARK BATHROOM	395.00
TOTAL FOR: SKYLINE ELECTRIC, INC			990.00
10849	SMART BUSINESS SOURCE OE-54466	OFFICE SUPPLIES	251.41
TOTAL FOR: SMART BUSINESS SOURCE			251.41
00692	WILLIAMS & WORKS INC. 294669	2022 STREET IMP (FAITH, ROB JAYNE, HEFFRON & VV)	4,274.28
	94452	STREET ASSET MGMT STUDY	726.50
	94541	GENERAL CONSULTING	71.50
	94550	MONROE ST RESURFACE W/S	264.55
	94551	WASHINGTON RESURFACE W/S	2,964.36
	94563	ENGINEERING CONSULTING	3,545.00
	94578	PARKS & REC PLAN	741.40
	94585	2022 STREET IMPRV (FAITH, ROB JAYNE, HEFFRON & VV)	2,989.52
	94587	GEE DR MILL & FILL	1,779.00
	94671	GEE DR MILL & FILL	1,037.50
	94717	LOWELL PLANING	1,042.00
	94728	PARK & REC PLAN UPDATE	1,560.37
	94754	MONROE ST RESURFACE WATER/SEWER	1,190.54
TOTAL FOR: WILLIAMS & WORKS INC.			22,186.52
10567	WOLF KUBOTA BYR-1024245	SPK BLADE MULCH - CEMETERY	89.01
TOTAL FOR: WOLF KUBOTA			89.01
TOTAL - ALL VENDORS			1,245,173.08

09/01/2022 01:42 PM

User: SUEU

DB: Lowell

INVOICE GL DISTRIBUTION REPORT FOR CITY OF LOWELL

EXP CHECK RUN DATES 08/13/2022 - 09/01/2022

BOTH JOURNALIZED AND UNJOURNALIZED

BOTH OPEN AND PAID

Page: 1/5

GL Number	Invoice Line Desc	Vendor	Invoice Description	Amount	Check #
Fund 101 GENERAL FUND					
Dept 000					
101-000-040.000	ACCOUNTS RECEIVABLE	GATOR MOWING LLC	MOWING AT 523 ELM	100.00	77534
101-000-084.015	DUE FROM FIRE AUTHORITY	POINT BROADBAND	INTERNET SERVICES	29.49	77552
101-000-085.000	DUE FROM LIGHT & POWER	POINT BROADBAND	INTERNET SERVICES	60.46	77552
101-000-222.000	DUE TO COUNTY-TRAILER FEE	KENT COUNTY TREASURER	TRAILER FEES JULY & AUGU	121.50	77539
101-000-225.000	DUE TO SET -TRAILER FEES	KENT COUNTY TREASURER	TRAILER FEES JULY & AUGU	426.00	77539
		Total For Dept 000		737.45	
Dept 101 COUNCIL					
101-101-955.000	MISCELLANEOUS EXPENSE	MI ASSOC OF MAYORS	2022 MEMBERSHIP - DEVORE	85.00	77545
101-101-955.000	MISCELLANEOUS EXPENSE	AT&T MOBILITY	FIRST NET PHONE BILL	36.24	77528
		Total For Dept 101 COUNCI		121.24	
Dept 172 MANAGER					
101-172-850.000	COMMUNICATIONS	AT&T MOBILITY	FIRST NET PHONE BILL	45.19	77528
		Total For Dept 172 MANAGE		45.19	
Dept 215 CLERK					
101-215-850.000	COMMUNICATIONS	AT&T MOBILITY	FIRST NET PHONE BILL	45.19	77528
		Total For Dept 215 CLERK		45.19	
Dept 253 TREASURER					
101-253-955.000	MISCELLANEOUS EXPENSE	MICHIGAN MUNICIPAL LEAGUE	CLASSIFIED AD - DEPUTY TR	55.44	77546
		Total For Dept 253 TREASU		55.44	
Dept 265 CITY HALL					
101-265-727.000	OFFICE SUPPLIES	SMART BUSINESS SOURCE	OFFICE SUPPLIES	31.18	77555
101-265-730.000	POSTAGE	PURCHASE POWER	POSTAGE METER	69.85	77553
101-265-740.000	OPERATING SUPPLIES	SMART BUSINESS SOURCE	OFFICE SUPPLIES	47.90	77555
101-265-740.000	OPERATING SUPPLIES	SMART BUSINESS SOURCE	OFFICE SUPPLIES	86.16	77555
101-265-850.000	COMMUNICATIONS	POINT BROADBAND	INTERNET SERVICES	44.99	77552
101-265-850.000	COMMUNICATIONS	LOWELL LIGHT & POWER	COMCAST/SPECTROTEL/GTT	904.55	77544
101-265-920.000	PUBLIC UTILITIES	CONSUMERS ENERGY	ACCOUNT STATEMENT	1,100.51	77530
101-265-930.000	REPAIR & MAINTENANCE	OTIS ELEVATOR CORPORATION	ELEVATOR SERVICE CALL	997.50	77550
		Total For Dept 265 CITY H		3,282.64	
Dept 276 CEMETERY					
101-276-740.000	OPERATING SUPPLIES	WOLF KUBOTA	SPK BLADE MULCH - CEMETER	89.01	77559
101-276-802.000	CONTRACTUAL	KERKSTRA PORTABLE, INC.	PORTABLE RESTROOM CEMETER	150.00	77541
		Total For Dept 276 CEMETE		239.01	
Dept 301 POLICE DEPARTMENT					
101-301-850.000	COMMUNICATIONS	POINT BROADBAND	INTERNET SERVICES	44.98	77552
101-301-850.000	COMMUNICATIONS	AT&T MOBILITY	FIRST NET PHONE BILL	506.51	77528
101-301-850.000	COMMUNICATIONS	LOWELL LIGHT & POWER	COMCAST/SPECTROTEL/GTT	457.67	77544
101-301-986.000	COMPUTER EQUIPMENT	GREAT LAKES UPFITTING	LPD RCEIPT PAPER ROLLS	95.00	77537
		Total For Dept 301 POLICE		1,104.16	
Dept 400 PLANNING & ZONING					
101-400-611.000	SITE PLAN REVIEW RETAINER	WILLIAMS & WORKS INC.	LOWELL PLANING	64.00	77556
101-400-801.000	PROFESSIONAL SERVICES	WILLIAMS & WORKS INC.	LOWELL PLANING	499.85	77556
101-400-801.000	PROFESSIONAL SERVICES	WILLIAMS & WORKS INC.	GENERAL CONSULTING	71.50	77556
101-400-801.000	PROFESSIONAL SERVICES	WILLIAMS & WORKS INC.	ENGINEERING CONSULTING	915.00	77556
101-400-801.000	PROFESSIONAL SERVICES	WILLIAMS & WORKS INC.	ENGINEERING CONSULTING	1,226.00	77556
101-400-801.000	PROFESSIONAL SERVICES	WILLIAMS & WORKS INC.	ENGINEERING CONSULTING	765.00	77556
101-400-801.000	PROFESSIONAL SERVICES	WILLIAMS & WORKS INC.	ENGINEERING CONSULTING	639.00	77556
101-400-801.000	PROFESSIONAL SERVICES	WILLIAMS & WORKS INC.	LOWELL PLANING	286.15	77556
101-400-801.000	PROFESSIONAL SERVICES	WILLIAMS & WORKS INC.	LOWELL PLANING	192.00	77556
		Total For Dept 400 PLANNI		4,658.50	
Dept 441 DEPARTMENT OF PUBLIC WORKS					
101-441-740.000	OPERATING SUPPLIES	AMAZON CAPITAL SERVICES	WATER & DPW SIUPPLIES	16.33	77527
101-441-850.000	COMMUNICATIONS	POINT BROADBAND	INTERNET SERVICES	29.49	77552

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Fund 101 GENERAL FUND					
Dept 441 DEPARTMENT OF PUBLIC WORKS					
101-441-850.000	COMMUNICATIONS	AT&T MOBILITY	FIRST NET PHONE BILL	88.46	77528
101-441-850.000	COMMUNICATIONS	LOWELL LIGHT & POWER	COMCAST/SPECTROTEL/GTT	60.07	77544
Total For Dept 441 DEPART				194.35	
Dept 751 PARKS					
101-751-740.000	OPERATING SUPPLIES	AMAZON CAPITAL SERVICES	PARKS WASP/HORNET SPRAY	32.22	77527
101-751-802.000	CONTRACTUAL	WILLIAMS & WORKS INC.	PARK & REC PLAN UPDATE	1,560.37	77556
101-751-802.000	CONTRACTUAL	WILLIAMS & WORKS INC.	PARKS & REC PLAN	741.40	77556
101-751-850.000	COMMUNICATIONS	AT&T MOBILITY	FIRST NET PHONE BILL	38.24	77528
101-751-930.000	REPAIR & MAINTENANCE	SKYLINE ELECTRIC, INC	STONE LAKESIDE PARK BATH	395.00	77554
101-751-930.000	REPAIR & MAINTENANCE	SKYLINE ELECTRIC, INC	REC PARK BASEBALL FIELD L	595.00	77554
Total For Dept 751 PARKS				3,362.23	
Dept 790 LIBRARY					
101-790-740.000	OPERATING SUPPLIES	SMART BUSINESS SOURCE	OFFICE SUPPLIES	86.17	77555
101-790-850.000	COMMUNICATIONS	LOWELL LIGHT & POWER	COMCAST/SPECTROTEL/GTT	251.08	77544
Total For Dept 790 LIBRAR				337.25	
Dept 804 MUSEUM					
101-804-955.000	PROPERTY TAX DISTRIBUTION	LOWELL AREA HISTORICAL MU	TAX DISBURSEMENT	7,088.60	77542
Total For Dept 804 MUSEUM				7,088.60	
Total For Fund 101 GENERA				21,271.25	
Fund 202 MAJOR STREET FUND					
Dept 450 CAPITAL OUTLAY					
202-450-970.000	CAPITAL OUTLAY	WILLIAMS & WORKS INC.	MONROE ST RESURFACE WATER	396.85	77556
202-450-970.000	CAPITAL OUTLAY	WILLIAMS & WORKS INC.	MONROE ST RESURFACE W/S	88.19	77556
202-450-970.000	CAPITAL OUTLAY	WILLIAMS & WORKS INC.	GEE DR MILL & FILL	1,037.50	77556
202-450-970.000	CAPITAL OUTLAY	WILLIAMS & WORKS INC.	GEE DR MILL & FILL	1,779.00	77556
202-450-970.000	CAPITAL OUTLAY	WILLIAMS & WORKS INC.	WASHINGTON RESURFACE W/S	2,964.36	77556
Total For Dept 450 CAPITA				6,265.90	
Dept 463 MAINTENANCE					
202-463-802.000	CONTRACTUAL	GREAT LAKES PAVING	OVERLAY KING & NORTH AT	2,345.00	77536
Total For Dept 463 MAINTEN				2,345.00	
Dept 483 ADMINISTRATION					
202-483-801.000	PROFESSIONAL SERVICES	WILLIAMS & WORKS INC.	STREET ASSET MGMT STUDY	363.25	77556
Total For Dept 483 ADMINI				363.25	
Total For Fund 202 MAJOR				8,974.15	
Fund 203 LOCAL STREET FUND					
Dept 450 CAPITAL OUTLAY					
203-450-970.000	CAPITAL OUTLAY	WILLIAMS & WORKS INC.	2022 STREET IMPRV (FAITH,	2,989.52	77556
203-450-970.000	CAPITAL OUTLAY	WILLIAMS & WORKS INC.	2022 STREET IMP (FAITH, R	4,274.28	77556
Total For Dept 450 CAPITA				7,263.80	
Dept 463 MAINTENANCE					
203-463-802.000	CONTRACTUAL	GREAT LAKES PAVING	OVERLAY KING & NORTH AT	2,670.00	77536
Total For Dept 463 MAINTEN				2,670.00	
Dept 483 ADMINISTRATION					
203-483-801.000	PROFESSIONAL SERVICES	WILLIAMS & WORKS INC.	STREET ASSET MGMT STUDY	363.25	77556
Total For Dept 483 ADMINI				363.25	
Total For Fund 203 LOCAL				10,297.05	
Fund 248 DOWNTOWN DEVELOPMENT AUTHORITY					
Dept 463 MAINTENANCE					
248-463-880.000	COMMUNITY PROMOTION	KERKSTRA PORTABLE, INC.	PORTABLE RESTROOM DDA	500.00	77541
Total For Dept 463 MAINTEN				500.00	
Total For Fund 248 DOWNTOWN				500.00	
Fund 249 BUILDING INSPECTION FUND					

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Fund 249 BUILDING INSPECTION FUND					
Dept 000					
249-000-627.000	BUILDING INSPECTOR FEES	ENGINEERED PROTECTION SYS	REFUND ELECTRIC PERMIT YM	400.00	77533
		Total For Dept 000		400.00	
		Total For Fund 249 BUILDI		400.00	
Fund 581 AIRPORT FUND					
Dept 000					
581-000-740.000	OPERATING SUPPLIES	CRYSTAL FLASH	AIRPORT REC GAS	1,508.49	77532
581-000-740.000	OPERATING SUPPLIES	NELSON, ERIC	AIRPORT SUPPLIES	40.26	77548
581-000-740.000	OPERATING SUPPLIES	NELSON, ERIC	AIRPORT SUPPLIES	19.92	77548
581-000-920.000	PUBLIC UTILITIES	CONSUMERS ENERGY	ACCOUNT STATEMENTS	35.34	77530
581-000-920.000	PUBLIC UTILITIES	CONSUMERS ENERGY	ACCOUNT STATEMENTS	23.88	77530
581-000-920.000	PUBLIC UTILITIES	CONSUMERS ENERGY	ACCOUNT STATEMENTS	131.80	77530
581-000-920.000	PUBLIC UTILITIES	CONSUMERS ENERGY	ACCOUNT STATEMENTS	29.51	77530
581-000-955.000	MISCELLANEOUS EXPENSE	POINT BROADBAND	INTERNET SERVICES	51.60	77552
		Total For Dept 000		1,840.80	
		Total For Fund 581 AIRPOR		1,840.80	
Fund 590 WASTEWATER FUND					
Dept 000					
590-000-043.000	DUE FROM EARTH TECH	POINT BROADBAND	INTERNET SERVICES	29.49	77552
590-000-043.000	DUE FROM EARTH TECH	LOWELL LIGHT & POWER	COMCAST/SPECTROTEL/GTT	88.75	77544
		Total For Dept 000		118.24	
Dept 551 COLLECTION					
590-551-850.000	COMMUNICATIONS	AT&T MOBILITY	FIRST NET PHONE BILL	81.47	77528
590-551-864.000	CONFERENCES & CONVENTIONS	MICHIGAN RURAL WATER ASSO	LEAK DETECTION & LINE LOC	77.50	77547
590-551-930.000	REPAIR & MAINTENANCE	GREAT LAKES PAVING	WASHINGTON ST	900.00	77536
590-551-970.000	CAPITAL OUTLAY	WILLIAMS & WORKS INC.	MONROE ST RESURFACE WATER	396.84	77556
590-551-970.000	CAPITAL OUTLAY	WILLIAMS & WORKS INC.	MONROE ST RESURFACE W/S	88.18	77556
		Total For Dept 551 COLLEC		1,543.99	
Dept 552 CUSTOMER ACCOUNTS					
590-552-703.000	SALARIES-METER READS	BARTLETT, SANDY	METER READS & MILEAGE	353.37	77529
590-552-730.000	POSTAGE	POSTMASTER	MAILING W/S BILLS	259.36	77560
590-552-860.000	TRAVEL EXPENSES	BARTLETT, SANDY	METER READS & MILEAGE	32.82	77529
		Total For Dept 552 CUSTOM		645.55	
		Total For Fund 590 WASTEW		2,307.78	
Fund 591 WATER FUND					
Dept 570 TREATMENT					
591-570-740.000	OPERATING SUPPLIES	AMAZON CAPITAL SERVICES	WTP SUPPLIES	29.98	77527
591-570-802.000	CONTRACTUAL	NORTHERN PUMP & WELL INC.	ANNUAL INSPECTION	1,000.00	77549
591-570-802.000	CONTRACTUAL	ADT SECURITY SYSTEMS, INC	WTP MONITORING	133.53	77526
591-570-850.000	COMMUNICATIONS	POINT BROADBAND	INTERNET SERVICES	29.49	77552
591-570-850.000	COMMUNICATIONS	AT&T MOBILITY	FIRST NET PHONE BILL	38.24	77528
591-570-850.000	COMMUNICATIONS	LOWELL LIGHT & POWER	COMCAST/SPECTROTEL/GTT	173.38	77544
		Total For Dept 570 TREATM		1,404.62	
Dept 571 DISTRIBUTION					
591-571-850.000	COMMUNICATIONS	AT&T MOBILITY	FIRST NET PHONE BILL	81.47	77528
591-571-864.000	CONFERENCES & CONVENTIONS	MICHIGAN RURAL WATER ASSO	LEAK DETECTION & LINE LOC	77.50	77547
591-571-930.000	REPAIR & MAINTENANCE	RAY'S WELDING	WELING FOR GEE DR RESERVO	3,600.00	77524
591-571-930.000	REPAIR & MAINTENANCE	AMAZON CAPITAL SERVICES	WATER & DPW SIUPLIES	16.33	77527
591-571-970.000	CAPITAL OUTLAY	WILLIAMS & WORKS INC.	MONROE ST RESURFACE WATER	396.85	77556
591-571-970.000	CAPITAL OUTLAY	WILLIAMS & WORKS INC.	MONROE ST RESURFACE W/S	88.18	77556
		Total For Dept 571 DISTRI		4,260.33	
Dept 572 CUSTOMER ACCOUNTS					
591-572-703.000	SALARIES-METER READS	BARTLETT, SANDY	METER READS & MILEAGE	353.38	77529
591-572-730.000	POSTAGE	POSTMASTER	MAILING W/S BILLS	259.37	77560

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Fund 591 WATER FUND					
Dept 572 CUSTOMER ACCOUNTS					
591-572-860.000	TRAVEL EXPENSES	BARTLETT, SANDY	METER READS & MILEAGE	32.83	77529
Total For Dept 572 CUSTOM				645.58	
Total For Fund 591 WATER				6,310.53	
Fund 636 DATA PROCESSING FUND					
Dept 000					
636-000-801.000	PROFESSIONAL SERVICES	ADDORIO TECHNOLOGIES, LLC	LPD COMPUTER SERVICES	595.00	77525
636-000-801.000	PROFESSIONAL SERVICES	ADDORIO TECHNOLOGIES, LLC	CITY HALL COMPUTER SERVIC	464.26	77525
636-000-801.000	PROFESSIONAL SERVICES	ADDORIO TECHNOLOGIES, LLC	DPW COMPUTER SERVICES	121.02	77525
Total For Dept 000				1,180.28	
Total For Fund 636 DATA P				1,180.28	
Fund 661 EQUIPMENT FUND					
Dept 895 FLEET MAINT. & REPLACEMENT					
661-895-930.000	REPAIR & MAINTENANCE	AMAZON CAPITAL SERVICES	DPW EQUIPMENT	642.24	77527
661-895-930.000	REPAIR & MAINTENANCE	AMAZON CAPITAL SERVICES	EQUIPMENT	34.90	77527
Total For Dept 895 FLEET				677.14	
Total For Fund 661 EQUIPM				677.14	
Fund 703 CURRENT TAX COLLECTION FUND					
Dept 000					
703-000-222.000	DUE TO COUNTY-CURRENT TAX	KENT COUNTY TREASURER	TAX DISBURSEMENT	171,115.48	77538
703-000-225.000	DUE TO SCHOOLS	LOWELL AREA SCHOOLS	TAX DISBURSEMENT	354,228.04	77543
703-000-228.009	DUE TO STATE-S.E.T.	KENT COUNTY TREASURER	TAX DISBURSEMENT	321,091.72	77538
703-000-234.000	DUE TO INTERMED SCH DISTR	KENT INTERMEDIATE SCHOOL	TAX DISBURSEMENT	291,433.41	77540
703-000-235.000	DUE TO COMMUNITY COLLEGE	GRAND RAPIDS COMMUNITY CO	TAX DISBURSEMENT	51,447.18	77535
703-000-275.000	DUE TO TAXPAYERS	corelogic centralized ref	2022 Sum Tax Refund 41-20	791.28	77531
703-000-275.000	DUE TO TAXPAYERS	PFCU CREDIT UNION	2022 Sum Tax Refund 41-20	1,306.99	77551
Total For Dept 000				1,191,414.10	
Total For Fund 703 CURREN				1,191,414.10	

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Fund Totals:					
			Fund 101 GENERAL FUND	21,271.25	
			Fund 202 MAJOR STREET FUN	8,974.15	
			Fund 203 LOCAL STREET FUN	10,297.05	
			Fund 248 DOWNTOWN DEVELOP	500.00	
			Fund 249 BUILDING INSPECT	400.00	
			Fund 581 AIRPORT FUND	1,840.80	
			Fund 590 WASTEWATER FUND	2,307.78	
			Fund 591 WATER FUND	6,310.53	
			Fund 636 DATA PROCESSING	1,180.28	
			Fund 661 EQUIPMENT FUND	677.14	
			Fund 703 CURRENT TAX COLL	1,191,414.10	
				<hr/>	
				1,245,173.08	



**LOWELL CITY COUNCIL
MEMORANDUM**

DATE: September 1, 2022

TO: Mayor DeVore and Lowell City Council

FROM: Michael T. Burns, City Manager *M TB*

RE: Front Street Property

The City has received the findings from the Phase II soil borings along the property owned on Front Street (aka Moose Property).

I have attached the report which Renee Pewitt from BLDI will review with you and discuss next steps.

Phase II Environmental Site Assessment

For the Subject Property Located at:

504 Front Street SE
City of Lowell, Michigan

Prepared For:

City of Lowell
301 East Main Street
Lowell, Michigan 49331

August 2022

BLDI Project No.: 225382.02

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FIGURES

Figure 1 Location Map
Figure 2 Subject Property Layout Map
Figure 3 Sample Location Map

TABLES

Table 1 Summary of Analytical Results for Subsurface Soil Sampling – Residential
Table 2 Summary of Analytical Results for Soil Sampling – Non-Residential

APPENDICES

Appendix A Soil Sampling Data Sheet
Appendix B Laboratory Analytical Report

1.0 EXECUTIVE SUMMARY

BLDI conducted Phase II Environmental Site Assessment (ESA) investigative activities at the subject property located at 504 Front Street SE, City of Lowell, Kent County, Michigan (the subject property), on June 24 and June 27, 2022.

The objective of this Phase II ESA was to investigate and conduct soil sampling to characterize the soil within a soil pile containing old City of Lowell Street sweeping dirt.

Based on the laboratory analytical results from the June 2022 Phase II ESA investigative activities, the following has been determined:

- Soil impact was identified at the subject property at concentrations exceeding applicable Part 201 generic residential cleanup criterion and screening levels (GRCC)
- The subject property does meet the Part 201 definition of a “facility”¹.

2.0 INTRODUCTION AND BACKGROUND

2.1 SUBJECT PROPERTY LAND USE AND PHYSICAL FEATURES

The subject property is located at 504 Front Street SE in the City of Lowell, Kent County, Michigan. The subject property consists of one parcel of land (41-20-02-440-003) totaling 19.38 acres, located on the south side of Washington Street (see Figures 1 and 2 for Subject Property Location and Layout).

The subject property is currently wooded, vacant land but formerly utilized by the City of Lowell for storing their city street sweepings. According to Mike Burns, City of Lowell City Manager, the street sweepings were placed in this pile through the early 1990’s.

There are no structures present on the subject property.

2.2 PUBLISHED INFORMATION ON SOIL AND GROUNDWATER CONDITIONS

Soils on the subject property are identified by the USDA Natural Resources Conservation Service as loam and sand.

The nearest body of surface water is the Grand River located adjoining to the south of the subject property. The Grand River is approximately 110 feet away from the soil pile boundaries. Based on the information obtained from a review of the area topography and local surface water features, general groundwater flow is likely to the south and discharges to the Grand River.

¹ “Facility” is defined in Part 201 of Michigan’s Natural Resources and Environmental Protection Act (NREPA) Michigan of Department of Environmental Quality (MDEQ) 324.20101 Definitions Sec. 20101 (1)(s) as “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.”

According to GeoWebFace, the uppermost bedrock beneath the subject property is identified as the Mississippian age Bayport Limestone Formation. This formation consists of units of sandy yellow limestone, cross-bedded white sandstone, and dolomite that were deposited in a marine environment.

According to GeoWebFace, the surficial geology within the area of the subject property consists of deposits of glacial outwash sand and gravel and post glacial alluvium. This well to poorly sorted glacial debris is typically pale brown or pale reddish brown, fine to coarse grained sand alternating with layers of small gravel to heavy cobbles that occurs as fluvial terraces along present and abandoned drainageways, as fans and sheets flanking end moraines, and as deltas along glacial lake margins. This deposit includes narrow belts of Holocene alluvium inset below outwash terraces along present streams. The thickness is highly variable locally and ranges from less than three feet up to sixty feet

3.0 PHASE II ESA ACTIVITIES AND RATIONALE

3.1 SCOPE OF INVESTIGATION

The Phase II ESA scope of work was developed with consideration of current and historic use of the subject property and adjoining/nearby properties and known local geologic and hydrogeologic conditions.

The Phase II ESA scope of work included the following investigative activities:

1. Collection and submittal of twenty-one soil samples for laboratory analysis
2. The samples were selected for laboratory analysis of petroleum products and Michigan 10 metals due to the soil pile containing street sweepings (i.e., roadway dirt with residual oils)

The number of samples collected is based on the volume of the soil pile as outlined in the Department of Environment Great Lakes and Energy, formerly Department of Environmental Quality Statistical Sampling Strategies and Statistics Training Materials (S3TM) for Part 201 Cleanup Criteria (2002). The samples were collected in random locations at different depth intervals throughout the soil pile².

² Because this is a soil pile, the soil under consideration is assumed to represent a single, homogenous population. Based on this, the sampling strategy utilized was "Simple RANDOM sampling" with a vertical component.

3.2 FIELD METHODS

3.2.1 Soil

BLDI advanced twenty-one soil borings at the subject property using hand-auger techniques outlined in ASTM publication D4700 “Standard Guide for Soil Sampling from the Vadose Zone”.

The soil was assessed using visual, olfactory, and electronic methods (Minirae 3000 (10.6eV lamp) photoionization detector (PID)). The soil horizon most indicative of impact using field screening methods was selected for laboratory analysis. If no positive indications of impact were identified throughout the soil boring, a random soil horizon was selected to ensure the entire soil pile was being characterized according to the S3TM. Observations were recorded in the field at each boring location on a soil sample data sheet (see Appendix A). Soil samples were collected following procedures outlined in ASTM publication D4700 “Standard Guide for Soil Sampling from the Vadose Zone”. Please refer to Figure 3 for the soil boring locations.

3.2.2 Groundwater

As this investigation focused on a non-native soil pile that was placed in its location, groundwater was not encountered during this Phase II ESA; therefore, no groundwater assessment was conducted as part of this Phase II ESA investigation.

3.3 LABORATORY METHODS

Please refer to the laboratory analytical report in Appendix B for information regarding the laboratory analytical methods utilized for the analysis of samples collected during this Phase II ESA.

3.4 QUALITY ASSURANCE AND QUALITY CONTROL

To ensure the accuracy of data collected during on-site activities, BLDI implemented quality assurance/quality control measures, including but not limited to decontamination & calibration of field equipment, documentation of field investigative activities and sample preservation techniques, according to the USEPA Publication SW-846.

Laboratory analysis was performed in accordance with National Environmental Laboratory Accreditation Conference (NELAC) standards. Any exceptions to NELAC compliance are noted in the analytical report provided in Appendix B.

4.0 FIELD OBSERVATIONS

Sand was encountered throughout the entire soil pile. Details and observations of the soil borings made during the field investigative activities are provided in Appendix A on the

soil sample data sheet. As shown on the sample data sheet, no odors, staining, or electronic (PID) evidence of contamination was observed within the borings that were conducted within the soil pile.

All the soil samples collected at the subject property were stored as recommended by the laboratory under chain of custody, until they were submitted to Fibertec Environmental Services (Holt, MI) for analysis.

5.0 ANALYTICAL LABORATORY RESULTS AND EVALUATION

Under the provisions of Part 201 of Michigan's Natural Resources and Environmental Protection Act (NREPA) the Michigan Department of Environment, Great Lakes, and Energy (EGLE) established cleanup criteria for soil and groundwater. The Part 201 Cleanup Criteria Requirements for Response Activity (Part 201 GRCC) are provided in the Part 201 rules³ which became effective in 2018. The Part 201 GRCC are applied as follows:

- The analytical results of the soil samples analyzed for target VOCs, PNAs and/or Michigan 10 Metals were compared to Part 201 GRCC.
- The analytical results of the soil samples analyzed for the presence of metals may also be assessed relative to the Michigan Background Soil Survey (July 2005, updated 2015) as provided in Part 201 and Part 213 GRCC.

A summary of the analytical results of the soil samples collected from the subject property during this Phase II ESA investigation are presented in Tables 1 and discussed below. Analytical reports are provided in Appendix B.

5.1 SOIL RESULTS

- Also shown in Table 1, select target VOCs, PNAs, and metals were detected at concentrations above laboratory method reporting limits in the soil samples collected during this investigation. Of these detected, arsenic, chromium (total), and mercury (total) were detected at concentrations exceeding their applicable Part 201 Generic Residential Cleanup Criteria and Screening Levels (GRCC).

5.2 CONCLUSIONS

The following conclusions can be made based on the data collected during the Phase II investigation at the subject property:

- Arsenic, chromium (total), and mercury (total) were detected at concentrations exceeding their applicable Part 201 Generic Residential Cleanup Criteria and Screening Levels (GRCC).

³ Applicable Part 201 Rules: R299.44, R299.46, R299.48, R299.49.

Based on the results of this Phase II ESA investigation, the subject property does meet the Part 201 definition of a “facility” as defined under Part 201 of NREPA (MCL324.20101(1)(s)).

5.3 DUE CARE OBLIGATIONS SUMMARY

Based on the characteristics (i.e., no structures present, not occupied) and current non-residential use of the Property, the Nonresidential Cleanup Criteria Requirements for Response Activity (GNRCC) developed by EGLE are the applicable and appropriate requirements for comparison to the target analytes detected at the Property when considering due care (i.e., managing the identified contamination) obligations.

As shown on Table 2, arsenic and chromium were detected above the drinking water criteria for the GNRCC. Because there are currently no drinking water wells on-site, this pathway is not relevant at the subject property.

Also shown on Table 2, arsenic and chromium were detected above the groundwater surface water interface (GSI) criteria for the GNRCC. The area of concern (i.e., the soil pile) is approximately 110 feet north of the Grand River. However, the Grand River is not utilized as a source of drinking water within the area of the subject property; therefore, any runoff from the soil pile would not impact human health. . Nonetheless, additional evaluation may be warranted to confirm that impacts from the soil pile are not present in soils or groundwater closer to the river.

If the use or configuration of the Property is altered, a new exposure pathway evaluation is necessary to determine if any response activities and/or corrective actions are necessary to comply with due care obligations on behalf of the O/O. Additionally, precautions should be in place to confirm that any soils removed from the soil pile are properly managed and not transported to unimpacted off-site locations.

To properly document the above information, a Documentation of Due Care Compliance report is recommended.

6.0 RELIANCE

The findings and conclusions of this Phase II ESA may be relied upon by City of Lowell, Michigan. Reliance upon this report by any other parties is unauthorized unless written permission is obtained from City of Lowell and BLDI.


7.0 LIMITATIONS AND EXCLUSIONS

This Phase II ESA was performed to investigate the soil pile located on the subject property provide information relevant to identifying, defining, and evaluating property conditions associated with target analytes that may pose risk to human health or the environment, or risk of bodily injury to persons on the property. As stated in the report

the S3TM was followed to ensure adequate characterization of the soil pile. As is the case with any investigation of limited scope, site conditions may vary from those observed and witnessed on the date(s) of the Phase II ESA investigation. The possibility of the discovery of the presence of hazardous substances that are not anticipated and/or were neither witnessed nor identified during the Phase II ESA investigation cannot be completely eliminated. BLDI cannot offer any form of warranty and/or guarantee that the subject property does not contain hazardous substances and/or conditions per the results of performing the Phase II ESA investigation. This report has been prepared exclusively for use by the addressee and subject to the terms and conditions of the Standard BLDI Professional Services Agreement.

8.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS


Prepared by: *Julia P. Behler*
Project Scientist


Reviewed by: *Renee L. Pewitt, EP*
Project Manager

9.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Renée Pewitt holds a Bachelor of Science degree in Biology and Earth Science from Central Michigan University. Ms. Pewitt has a history of working with the environment and ensuring proper environmental practices. She has performed various sampling techniques in soil as well as surface water and groundwater systems. Ms. Pewitt has conducted and prepared reports for Phase I and Phase II Environmental Site Assessments, Baseline Environmental Assessments and Section 7a Due Care Plans. Ms. Pewitt has also conducted investigations at leaking underground storage tank (LUST) sites. She has received training in the ASTM Environmental Due Diligence Proc. and has completed the OSHA 40-hour HAZWOPER training course, annual 8-hour HAZWOPER refresher courses and is a licensed Asbestos Building Inspector. Based on her education, experience and training, Ms. Pewitt meets the criteria for an Environmental Professional (EP) set forth in USEPA's "all appropriate inquiry rule."

Julia Behler holds a Bachelor of Science degree in Geology from Grand Valley State University. She has received training and has performed a variety of sampling techniques in soil as well as groundwater systems. Additionally, Ms. Behler has received training in the ASTM Phase I Environmental Site Assessment training (ESA) (ASTM E1527), Phase II ESAs (ASTM E1903), and has experience in assisting in multiple Phase I and Phase II Environmental Site Assessments. Ms. Behler has also completed the OSHA 40-hour HAZWOPER training course and the annual 8-Hour HAZWOPER refresher course.

10.0 REFERENCES

- ASTM publication D4700 “Standard Guide for Soil Sampling from the Vadose Zone”
- Cleanup Criteria Requirement for Response Activity, 2018
- Michigan Background Soil Survey - July 2005 (updated 2015)
- Michigan Department of Environmental Quality - GeoWebFace (<http://ww2.deq.state.mi.us/GeoWebFace/#DefaultZoom>)
- National Environmental Laboratory Accreditation Conference (NELAC) Standards - 2009
- The National Resource Conservation Service Web Soil Survey (<http://websoilsurvey.nrcs.usda.gov/app/>)
- RRD Target Detection Limits and Designated Analytical Methods – EGLE, March 2016
- Sampling Strategies and Statistics Training Materials for Part 201 Cleanup Criteria 2002

FIGURES

BLDI

Phase II Environmental Site Assessment



VS



Location of the Soil Pile



FIGURE 1
LOCATION MAP
504 Front Street SE
Lowell, Michigan



Legend

- ① Commercial storage building
211 S. Washington St. SE
- Ⓥ Vacant Land
- Ⓡ Residential
- Subject Property Boundaries

VS

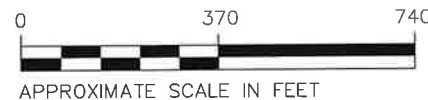
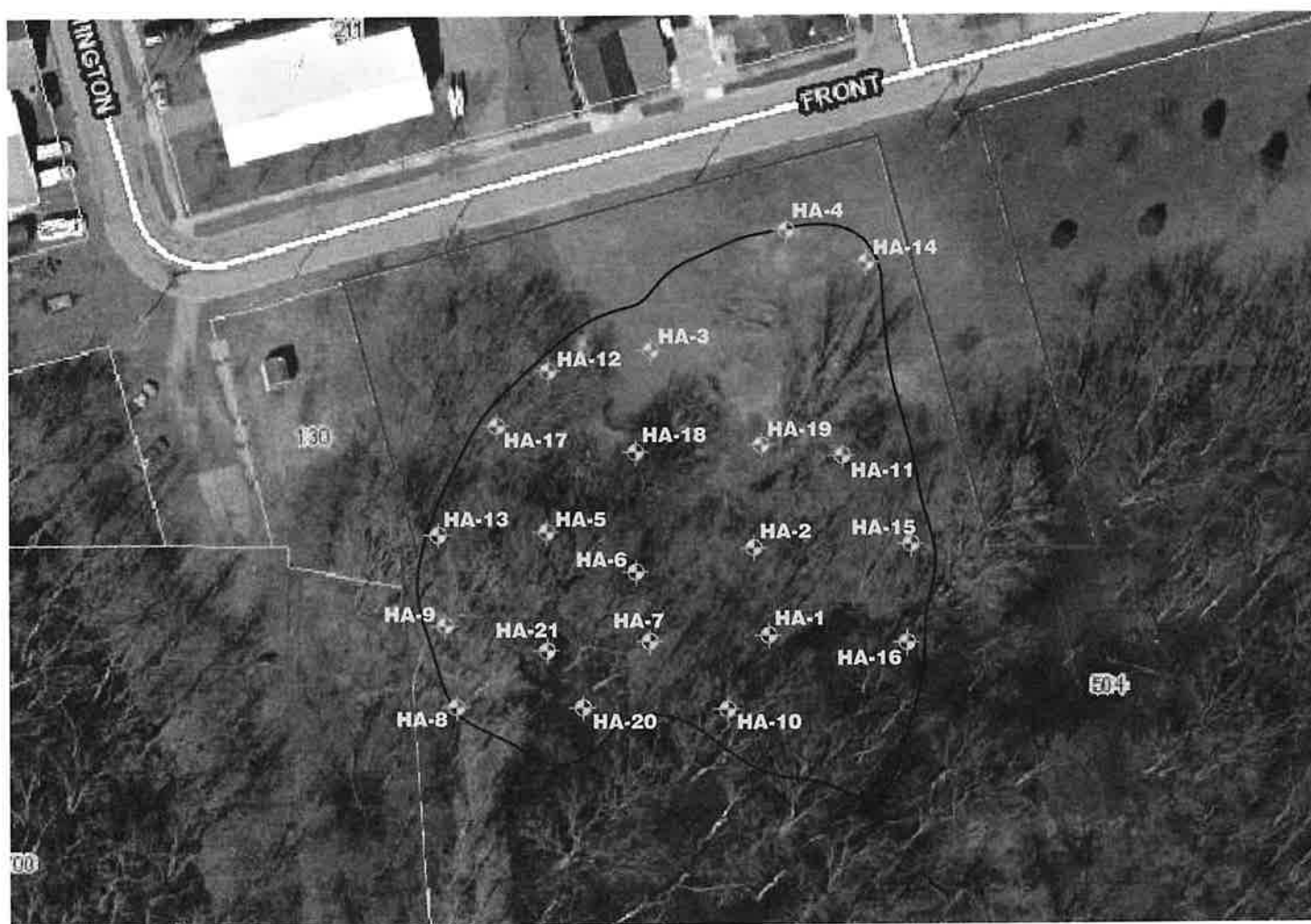


FIGURE 2
SUBJECT PROPERTY
LAYOUT MAP
504 Front Street SE
Lowell, Michigan



Legend

- ⊕ Sample Locations
- Subject Property Boundaries
- - - Approximate location of Soil Pile

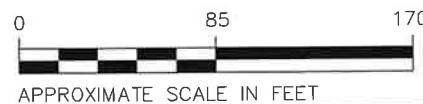


FIGURE 3 SAMPLE LOCATION MAP

504 Front Street SE
Lowell, Michigan

July 2022

225382.02

TABLES

BLDI

Phase II Environmental Site Assessment

Table 1
Summary of Analytical Results for Subsurface Soil Sampling
504 Front Street SE
Lewell, Michigan

[illegible]

Italicized and shaded values extend applicable criteria

Only detected analytes reported. Refer to laboratory analytical report for full list of analyzed compounds.

NA = Not Applicable

N/A*E - No cleanup criteria established

N/L - Not Likely to Reach

N/A = Not Likely to Validate

ID = insufficient data to develop statistics

Refer to the EULE document "Footnotes for Generic Claims"

* EGLE Cleanup Criteria for Response Activity Rules, 2018

¹ Background as defined in R 299.1(b) may be substituted or higher than the calculated cleanup reference. Background levels may be less than criteria for some inorganic compounds.

Table 1
Summary of Analytical Results for Subsurface Soil Sampling
504 Front Street SE
Lowell, Michigan

[illegible]

Bulleted and shaded values exceed applicable criteria

^a Only detected analytes (mutual). Refers to laboratory analytical report for full list of analyzed compounds.

NA = Not Applicable

NO⁺E = Nucleon extra attached

SLUG Not Likely to Lead

SLV = Not Likely to Volatilize

ID = Insufficient data to develop criterion

Brief in the N.J.L.E. document "Exemption in Genetic Testing"

* ECG R-Terminal Culture for Neurite Activity Index (2018)

Summary of Analytical Results for Subsurface Soil Sampling
504 Front Street SE
Lowell, Michigan

[illegible]

Bolded and shaded values exceed applicable criteria.

Only detected analytes reported. Refer to laboratory analytical report for full list of analytical compounds.

NA = Not Applicable

N/A = No cleanup criteria established

NLL = Not Likely to Leach

NLV - Not Likely to Volunteer

ID - insufficient data to develop criterion

Refer to the EULE document "Footnotes for Genetic Cloning"

* EGLE Cleanup Criteria for Response Activity Rules, 2018

Table 2
Summary of Analytical Results for Subsurface Soil Sampling
504 Front Street SE
Lowell, Michigan

[illegible]

Divided and shaded values exceed applicable criteria

Only detected studies reported. Refer to laboratory analytical report for full list of analyzed compounds.

NA = Not Applicable

N/A = No cleanup criteria established

NLL - Not Likely to Leach

NLY = Just Lately So Violent

ND = Insufficient data to develop criterion

Refers to the EOLE document "Guidelines for Genetic Testing"

* Background, as defined in R. 229.1(b), may be substituted if higher than the calculated cleanup criterion. Background levels may be less than criteria for some inorganic compounds.

APPENDIX A

Soil Sampling Data Sheet

BLDI

Phase II Environmental Site Assessment

Soil Sample Data Sheet

Project Name: Lowell Soil Pile **Project Number:** 225382.02
Field Staff: KDR, JCG, JPB, DMB **Date:** 6/24/2022 & 6/27/2022

Sample ID	Depth (feet)	PID (ppm)	Location	Soil Type/Observations
HA-1	2-2.5	0.0	Southern portion of soil pile	Sand (fine to medium grained, brown, dry, no odor)
HA-2	4.5-5	0.0	Central portion of soil pile	Sand (fine to medium grained, gravelly (small), brown, dry, no odor)
HA-3	7-7.5	0.0	Northern portion of soil pile	Sand (fine to medium grained, gravelly (small), brown, dry, no odor)
HA-4	9.5-10	0.0	Northern portion of soil pile	Sand (fine to medium grained, gravelly (small), brown, dry, no odor)
HA-5	1-1.5	0.0	Central portion of soil pile	Sand (fine to medium grained, gravelly (small), brown, dry, no odor)
HA-6	3-3.5	0.0	Central portion of soil pile	Sand (fine to medium grained, gravelly (small), brown, dry, no odor)
HA-7	4-4.5	0.0	Southern portion of soil pile	Sand (fine to medium grained, gravelly (small), brown, dry, no odor)
HA-8	9-9.5	0.0	Southern portion of soil pile	Sand (fine to medium grained, gravelly (small), brown, dry, no odor)
HA-9	6-6.5	0.0	Southern portion of soil pile	Sand (fine to medium grained, gravelly (small), brown, dry, no odor)
HA-10	5-5.5	0.0	Southern portion of soil pile	Sand (fine to medium grained, gravelly (small), brown, dry, no odor)
HA-11	1.5-2	0.0	Northern portion of soil pile	Sand (fine to medium grained, gravelly (small), brown, dry, no odor)
HA-12	8-8.5	0.0	Northern portion of soil pile	Sand (fine to medium grained, brown, dry, no odor)
HA-13	7.5-8	0.0	Central portion of soil pile	Sand (fine to medium grained, brown, dry, no odor)
HA-14	8-8.5	0.0	Northern portion of soil pile	Sandy loam (fine grained, dark brown, moist, no odor)
HA-15	6.5-7	0.0	Central portion of soil pile	Sand (fine grained, brown, dry, no odor)

Soil Sample Data Sheet

Sample ID	Depth (feet)	PID (ppm)	Location	Soil Type/Observations
HA-16	5.5-6	0.0	Southern portion of soil pile	Sand (fine grained, brown, dry, no odor)
HA-17	4-4.5	0.0	Northern portion of soil pile	Sand (fine grained, brown, dry, no odor)
HA-18	3.5-4	0.0	Northern portion of soil pile	Sand (fine grained, brown, dry, no odor)
HA-19	2.5-3	0.0	Northern portion of soil pile	Sand (fine grained, gravelly (small), brown, dry, no odor)
HA-20	0.5-1	0.0	Southern portion of soil pile	Sand (fine grained, brown, dry, no odor)
HA-21	0.5-1	0.0	Southern portion of soil pile	Sand (fine grained, brown, dry, no odor)

APPENDIX B

Laboratory Analytical Reports

BLDI

Phase II Environmental Site Assessment



Thursday, July 07, 2022

Fibertec Project Number: A09405
Project Identification: Lowell Soil Pile (225382.02) /225382.02
Submittal Date: 06/27/2022

Ms. Renee Pewitt
BLDI, Inc.
150 Fountain Street NE
Grand Rapids, MI 49503

Dear Ms. Pewitt,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 7 calendar days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

The methanol kit for sample -007 was broken upon receipt and prepared at the laboratory more than 48 hours after sampling. Results may be biased low.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

By Sue Ricketts at 11:13 AM, Jul 07, 2022

For Daryl P. Strandbergh
Laboratory Director

Enclosures

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T: (231) 775-8368

F: (517) 699-0388
F: (810) 220-3311
F: (231) 775-8584

Client Identification:	BLDI, Inc.	Sample Description:	HA-1 (2.0-2.5)	Chain of Custody:	207426
Client Project Name:	Lowell Soil Pile (225382.02)	Sample No:		Collect Date:	06/24/22
Client Project No:	225382.02	Sample Matrix:	Soil/Solid	Collect Time:	09:57
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable ±: Parameter not included in NELAC Scope of Analysis.				

Water (Moisture) Content Dried at 105 ± 5°C
Method: ASTM D2216-10

Aliquot ID: A09405-001 Matrix: Soil/Solid
Description: HA-1 (2.0-2.5)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
± 1. Percent Moisture (Water Content)	3		%	1	1.0	07/06/22	MC220706	07/06/22	MC220706	DBG

Michigan 10 Elements by ICP/MS
Method: EPA 0200.2/EPA 6020A

Aliquot ID: A09405-001 Matrix: Soil/Solid
Description: HA-1 (2.0-2.5)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Arsenic	1900		µg/kg	100	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
2. Barium	24000		µg/kg	1000	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
3. Cadmium	110		µg/kg	50	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
4. Chromium	17000		µg/kg	500	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
5. Copper	11000		µg/kg	1000	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
6. Lead	11000		µg/kg	1000	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
7. Selenium	U		µg/kg	200	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
8. Silver	U		µg/kg	100	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
9. Zinc	43000		µg/kg	1000	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH

Mercury by CVAAS
Method: EPA 7471B

Aliquot ID: A09405-001 Matrix: Soil/Solid
Description: HA-1 (2.0-2.5)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Mercury	U		µg/kg	50	10	06/29/22	PM22F29B	06/30/22	M722F30A	JLH

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: A09405-001A Matrix: Soil/Solid
Description: HA-1 (2.0-2.5)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Benzene	U		µg/kg	50	1.0	06/28/22	VP22F28A	06/28/22 15:13	VP22F28A	BRC
2. Ethylbenzene	U		µg/kg	50	1.0	06/28/22	VP22F28A	06/28/22 15:13	VP22F28A	BRC
± 3. 2-Methylnaphthalene	U		µg/kg	330	1.0	06/28/22	VP22F28A	06/28/22 15:13	VP22F28A	BRC
4. MTBE	U		µg/kg	250	1.0	06/28/22	VP22F28A	06/28/22 15:13	VP22F28A	BRC
5. Naphthalene	U		µg/kg	330	1.0	06/28/22	VP22F28A	06/28/22 15:13	VP22F28A	BRC
6. Toluene	U		µg/kg	50	1.0	06/28/22	VP22F28A	06/28/22 15:13	VP22F28A	BRC
± 7. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	06/28/22	VP22F28A	06/28/22 15:13	VP22F28A	BRC
8. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	06/28/22	VP22F28A	06/28/22 15:13	VP22F28A	BRC
9. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	06/28/22	VP22F28A	06/28/22 15:13	VP22F28A	BRC

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Analytical Laboratory Report
Laboratory Project Number: A09405
Laboratory Sample Number: A09405-001

Order: A09405
Date: 07/07/22

Client Identification: **BLDI, Inc.** Sample Description: **HA-1 (2.0-2.5)** Chain of Custody: **207426**
Client Project Name: **Lowell Soil Pile (225382.02)** Sample No: Collect Date: **06/24/22**
Client Project No: **225382.02** Sample Matrix: **Soil/Solid** Collect Time: **09:57**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: A09405-001A **Matrix: Soil/Solid**
Description: HA-1 (2.0-2.5)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
10. m&p-Xylene	U		µg/kg	100	1.0	06/28/22	VP22F28A	06/28/22 15:13	VP22F28A	BRC
11. o-Xylene	U		µg/kg	50	1.0	06/28/22	VP22F28A	06/28/22 15:13	VP22F28A	BRC
‡ 12. Xylenes	U		µg/kg	150	1.0	06/28/22	VP22F28A	06/28/22 15:13	VP22F28A	BRC

Polynuclear Aromatic Hydrocarbons (PNAs)
Method: EPA 3546/EPA 8270E

Aliquot ID: A09405-001 **Matrix: Soil/Solid**
Description: HA-1 (2.0-2.5)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Acenaphthene (SIM)	U		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:06	S622G06B	SJD
2. Acenaphthylene (SIM)	U		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:06	S622G06B	SJD
3. Anthracene (SIM)	U		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:06	S622G06B	SJD
4. Benzo(a)anthracene (SIM)	670		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:06	S622G06B	SJD
5. Benzo(a)pyrene (SIM)	970		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:06	S622G06B	SJD
6. Benzo(b)fluoranthene (SIM)	1600		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:06	S622G06B	SJD
7. Benzo(ghi)perylene (SIM)	1100		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:06	S622G06B	SJD
8. Benzo(k)fluoranthene (SIM)	540		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:06	S622G06B	SJD
9. Chrysene (SIM)	810		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:06	S622G06B	SJD
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:06	S622G06B	SJD
11. Fluoranthene (SIM)	1200		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:06	S622G06B	SJD
12. Fluorene (SIM)	U		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:06	S622G06B	SJD
13. Indeno(1,2,3-cd)pyrene (SIM)	950		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:06	S622G06B	SJD
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:06	S622G06B	SJD
15. Naphthalene (SIM)	U		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:06	S622G06B	SJD
16. Phenanthrene (SIM)	440		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:06	S622G06B	SJD
17. Pyrene (SIM)	1000		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:06	S622G06B	SJD

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Analytical Laboratory Report
Laboratory Project Number: A09405
Laboratory Sample Number: A09405-002

Order: A09405
Date: 07/07/22

Client Identification:	BLDI, Inc.	Sample Description:	HA-2 (4.5-5.0)	Chain of Custody:	207426
Client Project Name:	Lowell Soil Pile (225382.02)	Sample No:		Collect Date:	06/24/22
Client Project No:	225382.02	Sample Matrix:	Soil/Solid	Collect Time:	10:28
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C						Aliquot ID: A09405-002		Matrix: Soil/Solid		
Method: ASTM D2216-10						Description: HA-2 (4.5-5.0)				
						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	2		%	1	1.0	06/30/22	MC220630	07/01/22	MC220630	AWW

Michigan 10 Elements by ICP/MS					Aliquot ID: A09405-002	Matrix: Soil/Solid				
Method: EPA 0200.2/EPA 6020A					Description: HA-2 (4.5-5.0)					
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Arsenic	2400		µg/kg	100	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
2. Barium	27000		µg/kg	1000	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
3. Cadmium	120		µg/kg	50	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
4. Chromium	14000		µg/kg	500	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
5. Copper	16000		µg/kg	1000	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
6. Lead	12000		µg/kg	1000	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
7. Selenium	U		µg/kg	200	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
8. Silver	U		µg/kg	100	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
9. Zinc	61000		µg/kg	1000	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH

Mercury by CVAAS						Aliquot ID: A09405-002	Matrix: Soil/Solid			
Method: EPA 7471B						Description: HA-2 (4.5-5.0)				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Mercury	U		µg/kg	50	10	06/29/22	PM22F29B	06/30/22	M722F30A	JLH

Volatile Organic Compounds (VOCs) by GC/MS, 5035					Aliquot ID: A09405-002A	Matrix: Soil/Solid				
Method: EPA 5035A/EPA 8260D					Description: HA-2 (4.5-5.0)					
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Benzene	U		µg/kg	50	1.0	06/28/22	VP22F28A	06/28/22 15:40	VP22F28A	BRC
2. Ethylbenzene	U		µg/kg	50	1.0	06/28/22	VP22F28A	06/28/22 15:40	VP22F28A	BRC
‡ 3. 2-Methylnaphthalene	U		µg/kg	330	1.0	06/28/22	VP22F28A	06/28/22 15:40	VP22F28A	BRC
4. MTBE	U		µg/kg	250	1.0	06/28/22	VP22F28A	06/28/22 15:40	VP22F28A	BRC
5. Naphthalene	U		µg/kg	330	1.0	06/28/22	VP22F28A	06/28/22 15:40	VP22F28A	BRC
6. Toluene	U		µg/kg	50	1.0	06/28/22	VP22F28A	06/28/22 15:40	VP22F28A	BRC
‡ 7. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	06/28/22	VP22F28A	06/28/22 15:40	VP22F28A	BRC
8. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	06/28/22	VP22F28A	06/28/22 15:40	VP22F28A	BRC
9. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	06/28/22	VP22F28A	06/28/22 15:40	VP22F28A	BRC

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Client Identification: BLDI, Inc.	Sample Description: HA-2 (4.5-5.0)	Chain of Custody: 207426
Client Project Name: Lowell Soil Pile (225382.02)	Sample No:	Collect Date: 06/24/22
Client Project No: 225382.02	Sample Matrix: Soil/Solid	Collect Time: 10:28
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.		
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ±: Parameter not included in NELAC Scope of Analysis.		

Volatile Organic Compounds (VOCs) by GC/MS, 5035					Aliquot ID: A09405-002A	Matrix: Soil/Solid				
Method: EPA 5035A/EPA 8260D					Description: HA-2 (4.5-5.0)					
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
10. m&p-Xylene	U		µg/kg	100	1.0	06/28/22	VP22F28A	06/28/22 15:40	VP22F28A	BRC
11. o-Xylene	U		µg/kg	50	1.0	06/28/22	VP22F28A	06/28/22 15:40	VP22F28A	BRC
± 12. Xylenes	U		µg/kg	150	1.0	06/28/22	VP22F28A	06/28/22 15:40	VP22F28A	BRC

Polynuclear Aromatic Hydrocarbons (PNAs)						Aliquot ID: A09405-002	Matrix: Soil/Solid				
Method: EPA 3546/EPA 8270E						Description: HA-2 (4.5-5.0)					
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis			
						P. Date	P. Batch	A. Date	A. Batch	Init.	
1. Acenaphthene (SIM)	U		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:34	S622G06B	SJD	
2. Acenaphthylene (SIM)	U		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:34	S622G06B	SJD	
3. Anthracene (SIM)	U		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:34	S622G06B	SJD	
4. Benzo(a)anthracene (SIM)	880		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:34	S622G06B	SJD	
5. Benzo(a)pyrene (SIM)	1200		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:34	S622G06B	SJD	
6. Benzo(b)fluoranthene (SIM)	1900		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:34	S622G06B	SJD	
7. Benzo(ghi)perylene (SIM)	1500		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:34	S622G06B	SJD	
8. Benzo(k)fluoranthene (SIM)	530		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:34	S622G06B	SJD	
9. Chrysene (SIM)	1100		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:34	S622G06B	SJD	
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:34	S622G06B	SJD	
11. Fluoranthene (SIM)	1900		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:34	S622G06B	SJD	
12. Fluorene (SIM)	U		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:34	S622G06B	SJD	
13. Indeno(1,2,3-cd)pyrene (SIM)	1300		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:34	S622G06B	SJD	
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:34	S622G06B	SJD	
15. Naphthalene (SIM)	U		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:34	S622G06B	SJD	
16. Phenanthrene (SIM)	810		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:34	S622G06B	SJD	
17. Pyrene (SIM)	1700		µg/kg	330	20	07/05/22	PS22G011	07/06/22 12:34	S622G06B	SJD	

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Analytical Laboratory Report
Laboratory Project Number: A09405
Laboratory Sample Number: A09405-003

Order: A09405
Date: 07/07/22

Client Identification:	BLDI, Inc.	Sample Description:	HA-3 (7.0-7.5)	Chain of Custody:	207426
Client Project Name:	Lowell Soil Pile (225382.02)	Sample No:		Collect Date:	06/24/22
Client Project No:	225382.02	Sample Matrix:	Soil/Solid	Collect Time:	11:03
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.				

Water (Moisture) Content Dried at 105 ± 5°C
Method: ASTM D2216-10

Aliquot ID: A09405-003 Matrix: Soil/Solid
Description: HA-3 (7.0-7.5)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	2		%	1	1.0	06/30/22	MC220630	07/01/22	MC220630	AWW

Michigan 10 Elements by ICP/MS
Method: EPA 0200.2/EPA 6020A

Aliquot ID: A09405-003 Matrix: Soil/Solid
Description: HA-3 (7.0-7.5)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Arsenic	2700		µg/kg	100	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
2. Barium	31000		µg/kg	1000	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
3. Cadmium	240		µg/kg	50	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
4. Chromium	20000		µg/kg	500	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
5. Copper	23000		µg/kg	1000	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
6. Lead	34000		µg/kg	1000	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
7. Selenium	U		µg/kg	200	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
8. Silver	U		µg/kg	100	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
9. Zinc	86000		µg/kg	1000	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH

Mercury by CVAAS
Method: EPA 7471B

Aliquot ID: A09405-003 Matrix: Soil/Solid
Description: HA-3 (7.0-7.5)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Mercury	U		µg/kg	50	10	06/29/22	PM22F29B	06/30/22	M722F30A	JLH

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: A09405-003A Matrix: Soil/Solid
Description: HA-3 (7.0-7.5)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Benzene	U		µg/kg	50	1.0	06/28/22	VP22F28A	06/28/22 16:07	VP22F28A	BRC
2. Ethylbenzene	U		µg/kg	50	1.0	06/28/22	VP22F28A	06/28/22 16:07	VP22F28A	BRC
‡ 3. 2-Methylnaphthalene	U		µg/kg	330	1.0	06/28/22	VP22F28A	06/28/22 16:07	VP22F28A	BRC
4. MTBE	U		µg/kg	250	1.0	06/28/22	VP22F28A	06/28/22 16:07	VP22F28A	BRC
5. Naphthalene	U		µg/kg	330	1.0	06/28/22	VP22F28A	06/28/22 16:07	VP22F28A	BRC
6. Toluene	U		µg/kg	50	1.0	06/28/22	VP22F28A	06/28/22 16:07	VP22F28A	BRC
‡ 7. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	06/28/22	VP22F28A	06/28/22 16:07	VP22F28A	BRC
8. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	06/28/22	VP22F28A	06/28/22 16:07	VP22F28A	BRC
9. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	06/28/22	VP22F28A	06/28/22 16:07	VP22F28A	BRC

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Analytical Laboratory Report
Laboratory Project Number: A09405
Laboratory Sample Number: A09405-003

Order: A09405
Date: 07/07/22

Client Identification: **BLDI, Inc.** Sample Description: **HA-3 (7.0-7.5)** Chain of Custody: **207426**
Client Project Name: **Lowell Soil Pile (225382.02)** Sample No: Collect Date: **06/24/22**
Client Project No: **225382.02** Sample Matrix: **Soil/Solid** Collect Time: **11:03**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: **A09405-003A** Matrix: **Soil/Solid**
Description: **HA-3 (7.0-7.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
10. m&p-Xylene	U		µg/kg	100	1.0	06/28/22	VP22F28A	06/28/22 16:07	VP22F28A	BRC
11. o-Xylene	U		µg/kg	50	1.0	06/28/22	VP22F28A	06/28/22 16:07	VP22F28A	BRC
‡ 12. Xylenes	U		µg/kg	150	1.0	06/28/22	VP22F28A	06/28/22 16:07	VP22F28A	BRC

Polynuclear Aromatic Hydrocarbons (PNAs)
Method: EPA 3546/EPA 8270E

Aliquot ID: **A09405-003** Matrix: **Soil/Solid**
Description: **HA-3 (7.0-7.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Acenaphthene (SIM)	U		µg/kg	330	20	07/03/22	PS22G011	07/05/22 09:50	S622G05A	BDA
2. Acenaphthylene (SIM)	U		µg/kg	330	20	07/03/22	PS22G011	07/05/22 09:50	S622G05A	BDA
3. Anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G011	07/05/22 09:50	S622G05A	BDA
4. Benzo(a)anthracene (SIM)	740		µg/kg	330	20	07/03/22	PS22G011	07/05/22 09:50	S622G05A	BDA
5. Benzo(a)pyrene (SIM)	830		µg/kg	330	20	07/03/22	PS22G011	07/05/22 09:50	S622G05A	BDA
6. Benzo(b)fluoranthene (SIM)	1400		µg/kg	330	20	07/03/22	PS22G011	07/05/22 09:50	S622G05A	BDA
7. Benzo(ghi)perylene (SIM)	870		µg/kg	330	20	07/03/22	PS22G011	07/05/22 09:50	S622G05A	BDA
8. Benzo(k)fluoranthene (SIM)	410		µg/kg	330	20	07/03/22	PS22G011	07/05/22 09:50	S622G05A	BDA
9. Chrysene (SIM)	850		µg/kg	330	20	07/03/22	PS22G011	07/05/22 09:50	S622G05A	BDA
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G011	07/05/22 09:50	S622G05A	BDA
11. Fluoranthene (SIM)	1700		µg/kg	330	20	07/03/22	PS22G011	07/05/22 09:50	S622G05A	BDA
12. Fluorene (SIM)	U		µg/kg	330	20	07/03/22	PS22G011	07/05/22 09:50	S622G05A	BDA
13. Indeno(1,2,3-cd)pyrene (SIM)	780		µg/kg	330	20	07/03/22	PS22G011	07/05/22 09:50	S622G05A	BDA
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G011	07/05/22 09:50	S622G05A	BDA
15. Naphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G011	07/05/22 09:50	S622G05A	BDA
16. Phenanthrene (SIM)	720		µg/kg	330	20	07/03/22	PS22G011	07/05/22 09:50	S622G05A	BDA
17. Pyrene (SIM)	1500		µg/kg	330	20	07/03/22	PS22G011	07/05/22 09:50	S622G05A	BDA

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Analytical Laboratory Report
Laboratory Project Number: A09405
Laboratory Sample Number: A09405-004

Order: A09405
Date: 07/07/22

Client Identification:	BLDI, Inc.	Sample Description:	HA-4 (9.5-10)	Chain of Custody:	207426
Client Project Name:	Lowell Soil Pile (225382.02)	Sample No:		Collect Date:	06/24/22
Client Project No:	225382.02	Sample Matrix:	Soil/Solid	Collect Time:	11:30
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable ±: Parameter not included in NELAC Scope of Analysis.				

Water (Moisture) Content Dried at 105 ± 5°C						Aliquot ID: A09405-004	Matrix: Soil/Solid			
Method: ASTM D2216-10						Description: HA-4 (9.5-10)				
						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
± 1. Percent Moisture (Water Content)	3		%	1	1.0	06/30/22	MC220630	07/01/22	MC220630	AWW

Michigan 10 Elements by ICP/MS					Aliquot ID:	A09405-004		Matrix: Soil/Solid		
Method: EPA 0200.2/EPA 6020A					Description:	HA-4 (9.5-10)				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Arsenic	3200		µg/kg	100	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
2. Barium	48000		µg/kg	1000	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
3. Cadmium	280		µg/kg	50	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
4. Chromium	28000		µg/kg	500	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
5. Copper	53000		µg/kg	1000	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
6. Lead	24000		µg/kg	1000	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
7. Selenium	340		µg/kg	200	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
8. Silver	U		µg/kg	100	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
9. Zinc	170000		µg/kg	1000	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH

Mercury by CVAAS						Aliquot ID:	A09405-004	Matrix: Soil/Solid			
Method: EPA 7471B						Description:	HA-4 (9.5-10)				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis			
						P. Date	P. Batch	A. Date	A. Batch	Init.	
1. Mercury	U		µg/kg	50	10	06/29/22	PM22F29B	06/30/22	M722F30A	JLH	

Volatile Organic Compounds (VOCs) by GC/MS, 5035					Aliquot ID: A09405-004A	Matrix: Soil/Solid				
Method: EPA 5035A/EPA 8260D					Description: HA-4 (9.5-10)					
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Benzene	U		µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 16:08	VJ22F29A	BRC
2. Ethylbenzene	U		µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 16:08	VJ22F29A	BRC
± 3. 2-Methylnaphthalene	U		µg/kg	330	1.0	06/29/22	VJ22F29A	06/29/22 16:08	VJ22F29A	BRC
4. MTBE	U		µg/kg	250	1.0	06/29/22	VJ22F29A	06/29/22 16:08	VJ22F29A	BRC
5. Naphthalene	U		µg/kg	330	1.0	06/29/22	VJ22F29A	06/29/22 16:08	VJ22F29A	BRC
6. Toluene	U		µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 16:08	VJ22F29A	BRC
± 7. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 16:08	VJ22F29A	BRC
8. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 16:08	VJ22F29A	BRC
9. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 16:08	VJ22F29A	BRC

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Analytical Laboratory Report
Laboratory Project Number: A09405
Laboratory Sample Number: A09405-004

Order: A09405
Date: 07/07/22

Client Identification:	BLDI, Inc.	Sample Description:	HA-4 (9.5-10)	Chain of Custody:	207426
Client Project Name:	Lowell Soil Pile (225382.02)	Sample No:		Collect Date:	06/24/22
Client Project No:	225382.02	Sample Matrix:	Soil/Solid	Collect Time:	11:30
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable ±: Parameter not included in NELAC Scope of Analysis.				

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: A09405-004A Matrix: Soil/Solid
Description: HA-4 (9.5-10)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
10. m&p-Xylene	U		µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 16:08	VJ22F29A	BRC
11. o-Xylene	U		µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 16:08	VJ22F29A	BRC
± 12. Xylenes	U		µg/kg	150	1.0	06/29/22	VJ22F29A	06/29/22 16:08	VJ22F29A	BRC

Polynuclear Aromatic Hydrocarbons (PNAs)
Method: EPA 3546/EPA 8270E

Aliquot ID: A09405-004 Matrix: Soil/Solid
Description: HA-4 (9.5-10)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Acenaphthene (SIM)	U		µg/kg	330	20	07/03/22	PS22G011	07/05/22 15:23	S622G05A	BDA
2. Acenaphthylene (SIM)	U		µg/kg	330	20	07/03/22	PS22G011	07/05/22 15:23	S622G05A	BDA
3. Anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G011	07/05/22 15:23	S622G05A	BDA
4. Benzo(a)anthracene (SIM)	820		µg/kg	330	20	07/03/22	PS22G011	07/05/22 15:23	S622G05A	BDA
5. Benzo(a)pyrene (SIM)	970		µg/kg	330	20	07/03/22	PS22G011	07/05/22 15:23	S622G05A	BDA
6. Benzo(b)fluoranthene (SIM)	1600		µg/kg	330	20	07/03/22	PS22G011	07/05/22 15:23	S622G05A	BDA
7. Benzo(ghi)perylene (SIM)	1100		µg/kg	330	20	07/03/22	PS22G011	07/05/22 15:23	S622G05A	BDA
8. Benzo(k)fluoranthene (SIM)	570		µg/kg	330	20	07/03/22	PS22G011	07/05/22 15:23	S622G05A	BDA
9. Chrysene (SIM)	1100		µg/kg	330	20	07/03/22	PS22G011	07/05/22 15:23	S622G05A	BDA
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G011	07/05/22 15:23	S622G05A	BDA
11. Fluoranthene (SIM)	2100		µg/kg	330	20	07/03/22	PS22G011	07/05/22 15:23	S622G05A	BDA
12. Fluorene (SIM)	U		µg/kg	330	20	07/03/22	PS22G011	07/05/22 15:23	S622G05A	BDA
13. Indeno(1,2,3-cd)pyrene (SIM)	990		µg/kg	330	20	07/03/22	PS22G011	07/05/22 15:23	S622G05A	BDA
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G011	07/05/22 15:23	S622G05A	BDA
15. Naphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G011	07/05/22 15:23	S622G05A	BDA
16. Phenanthrene (SIM)	960		µg/kg	330	20	07/03/22	PS22G011	07/05/22 15:23	S622G05A	BDA
17. Pyrene (SIM)	1700		µg/kg	330	20	07/03/22	PS22G011	07/05/22 15:23	S622G05A	BDA

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Client Identification:	BLDI, Inc.	Sample Description:	HA-5 (1.0-1.5)	Chain of Custody:	207426
Client Project Name:	Lowell Soil Pile (225382.02)	Sample No:		Collect Date:	06/24/22
Client Project No:	225382.02	Sample Matrix:	Soil/Solid	Collect Time:	11:42
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.				

Water (Moisture) Content Dried at 105 ± 5°C						Aliquot ID:	A09405-005	Matrix:	Soil/Solid
Method: ASTM D2216-10						Description:	HA-5 (1.0-1.5)		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis	
						P. Date	P. Batch	A. Date	A. Batch
‡ 1. Percent Moisture (Water Content)	2		%	1	1.0	06/30/22	MC220630	07/01/22	MC220630 AWW

Michigan 10 Elements by ICP/MS						Aliquot ID:	A09405-005	Matrix:	Soil/Solid
Method: EPA 0200.2/EPA 6020A						Description:	HA-5 (1.0-1.5)		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis	
						P. Date	P. Batch	A. Date	A. Batch
1. Arsenic	2900		µg/kg	100	20	07/01/22	PT22G01A	07/01/22	T422G01A
2. Barium	30000		µg/kg	1000	20	07/01/22	PT22G01A	07/01/22	T422G01A
3. Cadmium	310		µg/kg	50	20	07/01/22	PT22G01A	07/01/22	T422G01A
4. Chromium	18000		µg/kg	500	20	07/01/22	PT22G01A	07/01/22	T422G01A
5. Copper	21000		µg/kg	1000	20	07/01/22	PT22G01A	07/01/22	T422G01A
6. Lead	31000		µg/kg	1000	20	07/01/22	PT22G01A	07/01/22	T422G01A
7. Selenium	250		µg/kg	200	20	07/01/22	PT22G01A	07/01/22	T422G01A
8. Silver	U		µg/kg	100	20	07/01/22	PT22G01A	07/01/22	T422G01A
9. Zinc	96000		µg/kg	1000	20	07/01/22	PT22G01A	07/01/22	T422G01A

Mercury by CVAAS						Aliquot ID:	A09405-005	Matrix:	Soil/Solid
Method: EPA 7471B						Description:	HA-5 (1.0-1.5)		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis	
						P. Date	P. Batch	A. Date	A. Batch
1. Mercury	U		µg/kg	50	10	06/29/22	PM22F29B	06/30/22	M722F30A

Volatile Organic Compounds (VOCs) by GC/MS, 5035						Aliquot ID:	A09405-005A	Matrix:	Soil/Solid
Method: EPA 5035A/EPA 8260D						Description:	HA-5 (1.0-1.5)		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis	
						P. Date	P. Batch	A. Date	A. Batch
1. Benzene	U		µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 16:32	VJ22F29A
2. Ethylbenzene	U		µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 16:32	VJ22F29A
‡ 3. 2-Methylnaphthalene	U		µg/kg	330	1.0	06/29/22	VJ22F29A	06/29/22 16:32	VJ22F29A
4. MTBE	U		µg/kg	250	1.0	06/29/22	VJ22F29A	06/29/22 16:32	VJ22F29A
5. Naphthalene	U		µg/kg	330	1.0	06/29/22	VJ22F29A	06/29/22 16:32	VJ22F29A
6. Toluene	U		µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 16:32	VJ22F29A
‡ 7. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 16:32	VJ22F29A
8. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 16:32	VJ22F29A
9. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 16:32	VJ22F29A

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Analytical Laboratory Report
Laboratory Project Number: A09405
Laboratory Sample Number: A09405-005

Order: A09405
Date: 07/07/22

Client Identification:	BLDI, Inc.	Sample Description:	HA-5 (1.0-1.5)	Chain of Custody:	207426
Client Project Name:	Lowell Soil Pile (225382.02)	Sample No:		Collect Date:	06/24/22
Client Project No:	225382.02	Sample Matrix:	Soil/Solid	Collect Time:	11:42
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.				

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: A09405-005A Matrix: Soil/Solid
Description: HA-5 (1.0-1.5)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
10. m&p-Xylene	U		µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 16:32	VJ22F29A	BRC
11. o-Xylene	U		µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 16:32	VJ22F29A	BRC
‡ 12. Xylenes	U		µg/kg	150	1.0	06/29/22	VJ22F29A	06/29/22 16:32	VJ22F29A	BRC

Polynuclear Aromatic Hydrocarbons (PNAs)
Method: EPA 3546/EPA 8270E

Aliquot ID: A09405-005 Matrix: Soil/Solid
Description: HA-5 (1.0-1.5)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Acenaphthene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 12:22	S622G05A	BDA
2. Acenaphthylene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 12:22	S622G05A	BDA
3. Anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 12:22	S622G05A	BDA
4. Benzo(a)anthracene (SIM)	880		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 12:22	S622G05A	BDA
5. Benzo(a)pyrene (SIM)	1000		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 12:22	S622G05A	BDA
6. Benzo(b)fluoranthene (SIM)	1700		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 12:22	S622G05A	BDA
7. Benzo(ghi)perylene (SIM)	1100		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 12:22	S622G05A	BDA
8. Benzo(k)fluoranthene (SIM)	660		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 12:22	S622G05A	BDA
9. Chrysene (SIM)	1200		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 12:22	S622G05A	BDA
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 12:22	S622G05A	BDA
11. Fluoranthene (SIM)	2100		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 12:22	S622G05A	BDA
12. Fluorene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 12:22	S622G05A	BDA
13. Indeno(1,2,3-cd)pyrene (SIM)	980		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 12:22	S622G05A	BDA
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 12:22	S622G05A	BDA
15. Naphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 12:22	S622G05A	BDA
16. Phenanthrene (SIM)	770		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 12:22	S622G05A	BDA
17. Pyrene (SIM)	1800		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 12:22	S622G05A	BDA

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Analytical Laboratory Report
Laboratory Project Number: A09405
Laboratory Sample Number: A09405-006

Order: A09405
Date: 07/07/22

Client Identification: **BLDI, Inc.** Sample Description: **HA-6 (3.0-3.5)** Chain of Custody: **207426**
Client Project Name: **Lowell Soil Pile (225382.02)** Sample No: Collect Date: **06/24/22**
Client Project No: **225382.02** Sample Matrix: **Soil/Solid** Collect Time: **12:00**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C
Method: ASTM D2216-10

Aliquot ID: **A09405-006** Matrix: **Soil/Solid**
Description: **HA-6 (3.0-3.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
‡ 1. Percent Moisture (Water Content)	3		%	1	1.0	06/30/22	MC220630	07/01/22	MC220630	AWW

Michigan 10 Elements by ICP/MS
Method: EPA 0200.2/EPA 6020A

Aliquot ID: **A09405-006** Matrix: **Soil/Solid**
Description: **HA-6 (3.0-3.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Arsenic	2900		µg/kg	100	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
2. Barium	33000		µg/kg	1000	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
3. Cadmium	290		µg/kg	50	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
4. Chromium	19000		µg/kg	500	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
5. Copper	22000		µg/kg	1000	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
6. Lead	24000		µg/kg	1000	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
7. Selenium	280		µg/kg	200	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
8. Silver	U		µg/kg	100	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
9. Zinc	100000		µg/kg	1000	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH

Mercury by CVAAS
Method: EPA 7471B

Aliquot ID: **A09405-006** Matrix: **Soil/Solid**
Description: **HA-6 (3.0-3.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Mercury	U		µg/kg	50	10	06/29/22	PM22F29B	06/30/22	M722F30A	JLH

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: **A09405-006A** Matrix: **Soil/Solid**
Description: **HA-6 (3.0-3.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Benzene	U		µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 16:57	VJ22F29A	BRC
2. Ethylbenzene	U		µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 16:57	VJ22F29A	BRC
‡ 3. 2-Methylnaphthalene	U		µg/kg	330	1.0	06/29/22	VJ22F29A	06/29/22 16:57	VJ22F29A	BRC
4. MTBE	U		µg/kg	250	1.0	06/29/22	VJ22F29A	06/29/22 16:57	VJ22F29A	BRC
5. Naphthalene	U		µg/kg	330	1.0	06/29/22	VJ22F29A	06/29/22 16:57	VJ22F29A	BRC
6. Toluene	U		µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 16:57	VJ22F29A	BRC
‡ 7. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 16:57	VJ22F29A	BRC
8. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 16:57	VJ22F29A	BRC
9. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 16:57	VJ22F29A	BRC

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Analytical Laboratory Report
Laboratory Project Number: A09405
Laboratory Sample Number: A09405-006

Order: A09405
Date: 07/07/22

Client Identification:	BLDI, Inc.	Sample Description:	HA-6 (3.0-3.5)	Chain of Custody:	207426
Client Project Name:	Lowell Soil Pile (225382.02)	Sample No:		Collect Date:	06/24/22
Client Project No:	225382.02	Sample Matrix:	Soil/Solid	Collect Time:	12:00
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable ±: Parameter not included in NELAC Scope of Analysis.				

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: A09405-006A Matrix: Soil/Solid
Description: HA-6 (3.0-3.5)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
10. m&p-Xylene	U		µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 16:57	VJ22F29A	BRC
11. o-Xylene	U		µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 16:57	VJ22F29A	BRC
± 12. Xylenes	U		µg/kg	150	1.0	06/29/22	VJ22F29A	06/29/22 16:57	VJ22F29A	BRC

Polynuclear Aromatic Hydrocarbons (PNAs)
Method: EPA 3546/EPA 8270E

Aliquot ID: A09405-006 Matrix: Soil/Solid
Description: HA-6 (3.0-3.5)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Acenaphthene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 10:18	S622G05A	BDA
2. Acenaphthylene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 10:18	S622G05A	BDA
3. Anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 10:18	S622G05A	BDA
4. Benzo(a)anthracene (SIM)	730		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 10:18	S622G05A	BDA
5. Benzo(a)pyrene (SIM)	880		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 10:18	S622G05A	BDA
6. Benzo(b)fluoranthene (SIM)	1500		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 10:18	S622G05A	BDA
7. Benzo(ghi)perylene (SIM)	1000		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 10:18	S622G05A	BDA
8. Benzo(k)fluoranthene (SIM)	400		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 10:18	S622G05A	BDA
9. Chrysene (SIM)	880		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 10:18	S622G05A	BDA
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 10:18	S622G05A	BDA
11. Fluoranthene (SIM)	1500		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 10:18	S622G05A	BDA
12. Fluorene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 10:18	S622G05A	BDA
13. Indeno(1,2,3-cd)pyrene (SIM)	870		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 10:18	S622G05A	BDA
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 10:18	S622G05A	BDA
15. Naphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 10:18	S622G05A	BDA
16. Phenanthrene (SIM)	650		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 10:18	S622G05A	BDA
17. Pyrene (SIM)	1400		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 10:18	S622G05A	BDA

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Client Identification:	BLDI, Inc.	Sample Description:	HA-7 (4.0-4.5)	Chain of Custody:	207426
Client Project Name:	Lowell Soil Pile (225382.02)	Sample No:		Collect Date:	06/24/22
Client Project No:	225382.02	Sample Matrix:	Soil/Solid	Collect Time:	12:17
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable ±: Parameter not included in NELAC Scope of Analysis.				

Water (Moisture) Content Dried at 105 ± 5°C						Aliquot ID: A09405-007		Matrix: Soil/Solid		
Method: ASTM D2216-10						Description: HA-7 (4.0-4.5)				
						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
± 1. Percent Moisture (Water Content)	3		%	1	1.0	06/30/22	MC220630	07/01/22	MC220630	AWW

Michigan 10 Elements by ICP/MS						Aliquot ID: A09405-007	Matrix: Soil/Solid			
Method: EPA 0200.2/EPA 6020A						Description: HA-7 (4.0-4.5)				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Arsenic	2700		µg/kg	100	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
2. Barium	40000		µg/kg	1000	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
3. Cadmium	540		µg/kg	50	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
4. Chromium	30000		µg/kg	500	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
5. Copper	37000		µg/kg	1000	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
6. Lead	38000		µg/kg	1000	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
7. Selenium	U		µg/kg	200	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
8. Silver	U		µg/kg	100	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH
9. Zinc	130000		µg/kg	1000	20	07/01/22	PT22G01A	07/01/22	T422G01A	JLH

Mercury by CVAAS						Aliquot ID: A09405-007	Matrix: Soil/Solid			
Method: EPA 7471B						Description: HA-7 (4.0-4.5)				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Mercury	U		µg/kg	50	10	06/29/22	PM22F29B	06/30/22	M722F30A	JLH

Volatile Organic Compounds (VOCs) by GC/MS, 5035						Aliquot ID: A09405-007B	Matrix: Soil/Solid			
Method: EPA 5035A/EPA 8260D						Description: HA-7 (4.0-4.5)				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Benzene	U	H	µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 17:21	VJ22F29A	BRC
2. Ethylbenzene	U	H	µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 17:21	VJ22F29A	BRC
± 3. 2-Methylnaphthalene	U	H	µg/kg	330	1.0	06/29/22	VJ22F29A	06/29/22 17:21	VJ22F29A	BRC
4. MTBE	U	H	µg/kg	250	1.0	06/29/22	VJ22F29A	06/29/22 17:21	VJ22F29A	BRC
5. Naphthalene	U	H	µg/kg	330	1.0	06/29/22	VJ22F29A	06/29/22 17:21	VJ22F29A	BRC
6. Toluene	U	H	µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 17:21	VJ22F29A	BRC
± 7. 1,2,3-Trimethylbenzene	U	H	µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 17:21	VJ22F29A	BRC
8. 1,2,4-Trimethylbenzene	U	H	µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 17:21	VJ22F29A	BRC

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Analytical Laboratory Report
Laboratory Project Number: A09405
Laboratory Sample Number: A09405-007

Order: A09405
Date: 07/07/22

Client Identification: **BLDI, Inc.** Sample Description: **HA-7 (4.0-4.5)** Chain of Custody: **207426**
Client Project Name: **Lowell Soil Pile (225382.02)** Sample No: Collect Date: **06/24/22**
Client Project No: **225382.02** Sample Matrix: **Soil/Solid** Collect Time: **12:17**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035

Aliquot ID: **A09405-007B**

Matrix: **Soil/Solid**

Method: **EPA 5035A/EPA 8260D**

Description: **HA-7 (4.0-4.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
9. 1,3,5-Trimethylbenzene	U	H	µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 17:21	VJ22F29A	BRC
10. m&p-Xylene	U	H	µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 17:21	VJ22F29A	BRC
11. o-Xylene	U	H	µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 17:21	VJ22F29A	BRC
‡ 12. Xylenes	U	H	µg/kg	150	1.0	06/29/22	VJ22F29A	06/29/22 17:21	VJ22F29A	BRC

Polynuclear Aromatic Hydrocarbons (PNAs)

Aliquot ID: **A09405-007**

Matrix: **Soil/Solid**

Method: **EPA 3546/EPA 8270E**

Description: **HA-7 (4.0-4.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Acenaphthene (SIM)	U		µg/kg	330	20	07/03/22	PS22G011	07/05/22 10:46	S622G05A	BDA
2. Acenaphthylene (SIM)	U		µg/kg	330	20	07/03/22	PS22G011	07/05/22 10:46	S622G05A	BDA
3. Anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G011	07/05/22 10:46	S622G05A	BDA
4. Benzo(a)anthracene (SIM)	1400		µg/kg	330	20	07/03/22	PS22G011	07/05/22 10:46	S622G05A	BDA
5. Benzo(a)pyrene (SIM)	1600		µg/kg	330	20	07/03/22	PS22G011	07/05/22 10:46	S622G05A	BDA
6. Benzo(b)fluoranthene (SIM)	2700		µg/kg	330	20	07/03/22	PS22G011	07/05/22 10:46	S622G05A	BDA
7. Benzo(ghi)perylene (SIM)	1600		µg/kg	330	20	07/03/22	PS22G011	07/05/22 10:46	S622G05A	BDA
8. Benzo(k)fluoranthene (SIM)	800		µg/kg	330	20	07/03/22	PS22G011	07/05/22 10:46	S622G05A	BDA
9. Chrysene (SIM)	1800		µg/kg	330	20	07/03/22	PS22G011	07/05/22 10:46	S622G05A	BDA
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G011	07/05/22 10:46	S622G05A	BDA
11. Fluoranthene (SIM)	3600		µg/kg	330	20	07/03/22	PS22G011	07/05/22 10:46	S622G05A	BDA
12. Fluorene (SIM)	U		µg/kg	330	20	07/03/22	PS22G011	07/05/22 10:46	S622G05A	BDA
13. Indeno(1,2,3-cd)pyrene (SIM)	1500		µg/kg	330	20	07/03/22	PS22G011	07/05/22 10:46	S622G05A	BDA
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G011	07/05/22 10:46	S622G05A	BDA
15. Naphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G011	07/05/22 10:46	S622G05A	BDA
16. Phenanthrene (SIM)	1700		µg/kg	330	20	07/03/22	PS22G011	07/05/22 10:46	S622G05A	BDA
17. Pyrene (SIM)	3000		µg/kg	330	20	07/03/22	PS22G011	07/05/22 10:46	S622G05A	BDA

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Analytical Laboratory Report
Laboratory Project Number: A09405
Laboratory Sample Number: A09405-008

Order: A09405
Date: 07/07/22

Client Identification: **BLDI, Inc.** Sample Description: **HA-8 (9.0-9.5)** Chain of Custody: **207426**
Client Project Name: **Lowell Soil Pile (225382.02)** Sample No: Collect Date: **06/24/22**
Client Project No: **225382.02** Sample Matrix: **Soil/Solid** Collect Time: **12:47**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ±: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C
Method: ASTM D2216-10

Aliquot ID: **A09405-008** Matrix: **Soil/Solid**
Description: **HA-8 (9.0-9.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
± 1. Percent Moisture (Water Content)	2		%	1	1.0	06/30/22	MC220630	07/01/22	MC220630	AWW

Michigan 10 Elements by ICP/MS
Method: EPA 0200.2/EPA 6020A

Aliquot ID: **A09405-008** Matrix: **Soil/Solid**
Description: **HA-8 (9.0-9.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Arsenic	2500		µg/kg	100	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
2. Barium	29000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
3. Cadmium	570		µg/kg	50	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
4. Chromium	24000	*	µg/kg	500	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
5. Copper	35000	F-*	µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
6. Lead	37000	F+*	µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
7. Selenium	320		µg/kg	200	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
8. Silver	U		µg/kg	100	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
9. Zinc	110000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH

Mercury by CVAAS
Method: EPA 7471B

Aliquot ID: **A09405-008** Matrix: **Soil/Solid**
Description: **HA-8 (9.0-9.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Mercury	U		µg/kg	50	10	06/29/22	PM22F29B	06/30/22	M722F30A	JLH

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: **A09405-008A** Matrix: **Soil/Solid**
Description: **HA-8 (9.0-9.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Benzene	U		µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 17:46	VJ22F29A	BRC
2. Ethylbenzene	U		µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 17:46	VJ22F29A	BRC
± 3. 2-Methylnaphthalene	U		µg/kg	330	1.0	06/29/22	VJ22F29A	06/29/22 17:46	VJ22F29A	BRC
4. MTBE	U		µg/kg	250	1.0	06/29/22	VJ22F29A	06/29/22 17:46	VJ22F29A	BRC
5. Naphthalene	U		µg/kg	330	1.0	06/29/22	VJ22F29A	06/29/22 17:46	VJ22F29A	BRC
6. Toluene	U		µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 17:46	VJ22F29A	BRC
± 7. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 17:46	VJ22F29A	BRC

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Analytical Laboratory Report
Laboratory Project Number: A09405
Laboratory Sample Number: A09405-008

Order: A09405
Date: 07/07/22

Client Identification: BLDI, Inc.	Sample Description: HA-8 (9.0-9.5)	Chain of Custody: 207426
Client Project Name: Lowell Soil Pile (225382.02)	Sample No:	Collect Date: 06/24/22
Client Project No: 225382.02	Sample Matrix: Soil/Solid	Collect Time: 12:47
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.		
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ±: Parameter not included in NELAC Scope of Analysis.		

Volatile Organic Compounds (VOCs) by GC/MS, 5035						Aliquot ID: A09405-008A		Matrix: Soil/Solid		
Method: EPA 5035A/EPA 8260D						Description: HA-8 (9.0-9.5)				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
8. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 17:46	VJ22F29A	BRC
9. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 17:46	VJ22F29A	BRC
10. m&p-Xylene	U		µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 17:46	VJ22F29A	BRC
11. o-Xylene	U		µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 17:46	VJ22F29A	BRC
± 12. Xylenes	U		µg/kg	150	1.0	06/29/22	VJ22F29A	06/29/22 17:46	VJ22F29A	BRC

Polynuclear Aromatic Hydrocarbons (PNAs)						Aliquot ID: A09405-008		Matrix: Soil/Solid		
Method: EPA 3546/EPA 8270E						Description: HA-8 (9.0-9.5)				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Acenaphthene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 11:13	S622G05A	BDA
2. Acenaphthylene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 11:13	S622G05A	BDA
3. Anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 11:13	S622G05A	BDA
4. Benzo(a)anthracene (SIM)	1000		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 11:13	S622G05A	BDA
5. Benzo(a)pyrene (SIM)	1100		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 11:13	S622G05A	BDA
6. Benzo(b)fluoranthene (SIM)	1900		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 11:13	S622G05A	BDA
7. Benzo(ghi)perylene (SIM)	1200		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 11:13	S622G05A	BDA
8. Benzo(k)fluoranthene (SIM)	550		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 11:13	S622G05A	BDA
9. Chrysene (SIM)	1200		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 11:13	S622G05A	BDA
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 11:13	S622G05A	BDA
11. Fluoranthene (SIM)	2500		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 11:13	S622G05A	BDA
12. Fluorene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 11:13	S622G05A	BDA
13. Indeno(1,2,3-cd)pyrene (SIM)	1000		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 11:13	S622G05A	BDA
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 11:13	S622G05A	BDA
15. Naphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 11:13	S622G05A	BDA
16. Phenanthrene (SIM)	1500		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 11:13	S622G05A	BDA
17. Pyrene (SIM)	2100		µg/kg	330	20	07/03/22	PS22G01I	07/05/22 11:13	S622G05A	BDA

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Client Identification: BLDI, Inc.	Sample Description: HA-9 (6.0-6.5)	Chain of Custody: 207426
Client Project Name: Lowell Soil Pile (225382.02)	Sample No:	Collect Date: 06/24/22
Client Project No: 225382.02	Sample Matrix: Soil/Solid	Collect Time: 12:56
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.		
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ±: Parameter not included in NELAC Scope of Analysis.		

Water (Moisture) Content Dried at 105 ± 5°C
Method: ASTM D2216-10

Aliquot ID: A09405-009 **Matrix: Soil/Solid**
Description: HA-9 (6.0-6.5)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
± 1. Percent Moisture (Water Content)	2		%	1	1.0	06/30/22	MC220630	07/01/22	MC220630	AWW

Michigan 10 Elements by ICP/MS
Method: EPA 0200.2/EPA 6020A

Aliquot ID: A09405-009 **Matrix: Soil/Solid**
Description: HA-9 (6.0-6.5)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Arsenic	2900		µg/kg	100	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
2. Barium	34000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
3. Cadmium	430		µg/kg	50	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
4. Chromium	18000		µg/kg	500	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
5. Copper	26000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
6. Lead	39000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
7. Selenium	260		µg/kg	200	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
8. Silver	U		µg/kg	100	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
9. Zinc	100000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH

Mercury by CVAAS
Method: EPA 7471B

Aliquot ID: A09405-009 **Matrix: Soil/Solid**
Description: HA-9 (6.0-6.5)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Mercury	U		µg/kg	50	10	06/29/22	PM22F29B	06/30/22	M722F30A	JLH

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: A09405-009A **Matrix: Soil/Solid**
Description: HA-9 (6.0-6.5)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Benzene	U		µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 18:10	VJ22F29A	BRC
2. Ethylbenzene	U		µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 18:10	VJ22F29A	BRC
± 3. 2-Methylnaphthalene	U		µg/kg	330	1.0	06/29/22	VJ22F29A	06/29/22 18:10	VJ22F29A	BRC
4. MTBE	U		µg/kg	250	1.0	06/29/22	VJ22F29A	06/29/22 18:10	VJ22F29A	BRC
5. Naphthalene	U		µg/kg	330	1.0	06/29/22	VJ22F29A	06/29/22 18:10	VJ22F29A	BRC
6. Toluene	U		µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 18:10	VJ22F29A	BRC
± 7. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 18:10	VJ22F29A	BRC
8. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 18:10	VJ22F29A	BRC
9. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 18:10	VJ22F29A	BRC

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Client Identification: BLDI, Inc.	Sample Description: HA-9 (6.0-6.5)	Chain of Custody: 207426
Client Project Name: Lowell Soil Pile (225382.02)	Sample No:	Collect Date: 06/24/22
Client Project No: 225382.02	Sample Matrix: Soil/Solid	Collect Time: 12:56
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.		
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.		

Volatile Organic Compounds (VOCs) by GC/MS, 5035					Aliquot ID: A09405-009A	Matrix: Soil/Solid				
Method: EPA 5035A/EPA 8260D					Description: HA-9 (6.0-6.5)					
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
10. m&p-Xylene	U		µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 18:10	VJ22F29A	BRO
11. o-Xylene	U		µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 18:10	VJ22F29A	BRO
± 12. Xylenes	U		µg/kg	150	1.0	06/29/22	VJ22F29A	06/29/22 18:10	VJ22F29A	BRO

Polynuclear Aromatic Hydrocarbons (PNAs)					Aliquot ID: A09405-009	Matrix: Soil/Solid				
Method: EPA 3546/EPA 8270E					Description: HA-9 (6.0-6.5)					
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Acenaphthene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 00:33	SN22G03B	SJD
2. Acenaphthylene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 00:33	SN22G03B	SJD
3. Anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 00:33	SN22G03B	SJD
4. Benzo(a)anthracene (SIM)	880		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 00:33	SN22G03B	SJD
5. Benzo(a)pyrene (SIM)	1200		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 00:33	SN22G03B	SJD
6. Benzo(b)fluoranthene (SIM)	1900		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 00:33	SN22G03B	SJD
7. Benzo(ghi)perylene (SIM)	1200		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 00:33	SN22G03B	SJD
8. Benzo(k)fluoranthene (SIM)	640		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 00:33	SN22G03B	SJD
9. Chrysene (SIM)	1000		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 00:33	SN22G03B	SJD
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 00:33	SN22G03B	SJD
11. Fluoranthene (SIM)	1700		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 00:33	SN22G03B	SJD
12. Fluorene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 00:33	SN22G03B	SJD
13. Indeno(1,2,3-cd)pyrene (SIM)	1200		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 00:33	SN22G03B	SJD
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 00:33	SN22G03B	SJD
15. Naphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 00:33	SN22G03B	SJD
16. Phenanthrene (SIM)	880		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 00:33	SN22G03B	SJD
17. Pyrene (SIM)	1800		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 00:33	SN22G03B	SJD

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Client Identification:	BLDI, Inc.	Sample Description:	HA-10 (5.0-5.5)	Chain of Custody:	207426
Client Project Name:	Lowell Soil Pile (225382.02)	Sample No:		Collect Date:	06/24/22
Client Project No:	225382.02	Sample Matrix:	Soil/Solid	Collect Time:	13:11
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.				

Water (Moisture) Content Dried at 105 ± 5°C						Aliquot ID: A09405-010	Matrix: Soil/Solid			
Method: ASTM D2216-10						Description: HA-10 (5.0-5.5)				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	4		%	1	1.0	06/30/22	MC220630	07/01/22	MC220630	AWW

Michigan 10 Elements by ICP/MS						Aliquot ID: A09405-010	Matrix: Soil/Solid			
Method: EPA 0200.2/EPA 6020A						Description: HA-10 (5.0-5.5)				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Arsenic	4700		µg/kg	100	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
2. Barium	33000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
3. Cadmium	320		µg/kg	50	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
4. Chromium	30000		µg/kg	500	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
5. Copper	42000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
6. Lead	44000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
7. Selenium	340		µg/kg	200	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
8. Silver	U		µg/kg	100	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
9. Zinc	110000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH

Mercury by CVAAS						Aliquot ID: A09405-010	Matrix: Soil/Solid			
Method: EPA 7471B						Description: HA-10 (5.0-5.5)				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Mercury	U		µg/kg	50	10	06/29/22	PM22F29B	06/30/22	M722F30A	JLH

Volatile Organic Compounds (VOCs) by GC/MS, 5035						Aliquot ID: A09405-010A	Matrix: Soil/Solid				
Method: EPA 5035A/EPA 8260D						Description: HA-10 (5.0-5.5)					
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.	
						P. Date	P. Batch	A. Date	A. Batch		
1. Benzene	U		µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 18:35	VJ22F29A	BRC	
2. Ethylbenzene	U		µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 18:35	VJ22F29A	BRC	
‡ 3. 2-Methylnaphthalene	U		µg/kg	330	1.0	06/29/22	VJ22F29A	06/29/22 18:35	VJ22F29A	BRC	
4. MTBE	U		µg/kg	250	1.0	06/29/22	VJ22F29A	06/29/22 18:35	VJ22F29A	BRC	
5. Naphthalene	U		µg/kg	330	1.0	06/29/22	VJ22F29A	06/29/22 18:35	VJ22F29A	BRC	
6. Toluene	U		µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 18:35	VJ22F29A	BRC	
‡ 7. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 18:35	VJ22F29A	BRC	
8. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 18:35	VJ22F29A	BRC	
9. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 18:35	VJ22F29A	BRC	

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Analytical Laboratory Report
Laboratory Project Number: A09405
Laboratory Sample Number: A09405-010

Order: A09405
Date: 07/07/22

Client Identification: **BLDI, Inc.** Sample Description: **HA-10 (5.0-5.5)** Chain of Custody: **207426**
Client Project Name: **Lowell Soil Pile (225382.02)** Sample No: Collect Date: **06/24/22**
Client Project No: **225382.02** Sample Matrix: **Soil/Solid** Collect Time: **13:11**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: **A09405-010A** Matrix: **Soil/Solid**
Description: **HA-10 (5.0-5.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
10. m&p-Xylene	U		µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 18:35	VJ22F29A	BRC
11. o-Xylene	U		µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 18:35	VJ22F29A	BRC
‡ 12. Xylenes	U		µg/kg	150	1.0	06/29/22	VJ22F29A	06/29/22 18:35	VJ22F29A	BRC

Polynuclear Aromatic Hydrocarbons (PNAs)
Method: EPA 3546/EPA 8270E

Aliquot ID: **A09405-010** Matrix: **Soil/Solid**
Description: **HA-10 (5.0-5.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Acenaphthene (SIM)	U		µg/kg	330	20	07/03/22	PS22G011	07/04/22 01:00	SN22G03B	SJD
2. Acenaphthylene (SIM)	U		µg/kg	330	20	07/03/22	PS22G011	07/04/22 01:00	SN22G03B	SJD
3. Anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G011	07/04/22 01:00	SN22G03B	SJD
4. Benzo(a)anthracene (SIM)	960		µg/kg	330	20	07/03/22	PS22G011	07/04/22 01:00	SN22G03B	SJD
5. Benzo(a)pyrene (SIM)	1400		µg/kg	330	20	07/03/22	PS22G011	07/04/22 01:00	SN22G03B	SJD
6. Benzo(b)fluoranthene (SIM)	2200		µg/kg	330	20	07/03/22	PS22G011	07/04/22 01:00	SN22G03B	SJD
7. Benzo(ghi)perylene (SIM)	1200		µg/kg	330	20	07/03/22	PS22G011	07/04/22 01:00	SN22G03B	SJD
8. Benzo(k)fluoranthene (SIM)	760		µg/kg	330	20	07/03/22	PS22G011	07/04/22 01:00	SN22G03B	SJD
9. Chrysene (SIM)	1100		µg/kg	330	20	07/03/22	PS22G011	07/04/22 01:00	SN22G03B	SJD
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G011	07/04/22 01:00	SN22G03B	SJD
11. Fluoranthene (SIM)	2000		µg/kg	330	20	07/03/22	PS22G011	07/04/22 01:00	SN22G03B	SJD
12. Fluorene (SIM)	U		µg/kg	330	20	07/03/22	PS22G011	07/04/22 01:00	SN22G03B	SJD
13. Indeno(1,2,3-cd)pyrene (SIM)	1400		µg/kg	330	20	07/03/22	PS22G011	07/04/22 01:00	SN22G03B	SJD
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G011	07/04/22 01:00	SN22G03B	SJD
15. Naphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G011	07/04/22 01:00	SN22G03B	SJD
16. Phenanthrene (SIM)	970		µg/kg	330	20	07/03/22	PS22G011	07/04/22 01:00	SN22G03B	SJD
17. Pyrene (SIM)	2000		µg/kg	330	20	07/03/22	PS22G011	07/04/22 01:00	SN22G03B	SJD

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Analytical Laboratory Report
Laboratory Project Number: A09405
Laboratory Sample Number: A09405-011

Order: A09405
Date: 07/07/22

Client Identification:	BLDI, Inc.	Sample Description:	HA-11 (1.5-2.0)	Chain of Custody:	207427
Client Project Name:	Lowell Soil Pile (225382.02)	Sample No:		Collect Date:	06/24/22
Client Project No:	225382.02	Sample Matrix:	Soil/Solid	Collect Time:	13:24
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.				

Water (Moisture) Content Dried at 105 ± 5°C
Method: ASTM D2216-10

Aliquot ID: A09405-011 Matrix: Soil/Solid
Description: HA-11 (1.5-2.0)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
‡ 1. Percent Moisture (Water Content)	3		%	1	1.0	06/30/22	MC220630	07/01/22	MC220630	AWW

Michigan 10 Elements by ICP/MS
Method: EPA 0200.2/EPA 6020A

Aliquot ID: A09405-011 Matrix: Soil/Solid
Description: HA-11 (1.5-2.0)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Arsenic	2900		µg/kg	100	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
2. Barium	40000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
3. Cadmium	260		µg/kg	50	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
4. Chromium	45000		µg/kg	500	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
5. Copper	37000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
6. Lead	46000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
7. Selenium	260		µg/kg	200	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
8. Silver	U		µg/kg	100	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
9. Zinc	120000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH

Mercury by CVAAS
Method: EPA 7471B

Aliquot ID: A09405-011 Matrix: Soil/Solid
Description: HA-11 (1.5-2.0)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Mercury	U		µg/kg	50	10	06/29/22	PM22F29B	06/30/22	M722F30A	JLH

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: A09405-011A Matrix: Soil/Solid
Description: HA-11 (1.5-2.0)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Benzene	U		µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 18:59	VJ22F29A	BRC
2. Ethylbenzene	U		µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 18:59	VJ22F29A	BRC
‡ 3. 2-Methylnaphthalene	U		µg/kg	330	1.0	06/29/22	VJ22F29A	06/29/22 18:59	VJ22F29A	BRC
4. MTBE	U		µg/kg	250	1.0	06/29/22	VJ22F29A	06/29/22 18:59	VJ22F29A	BRC
5. Naphthalene	U		µg/kg	330	1.0	06/29/22	VJ22F29A	06/29/22 18:59	VJ22F29A	BRC
6. Toluene	U		µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 18:59	VJ22F29A	BRC
‡ 7. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 18:59	VJ22F29A	BRC
8. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 18:59	VJ22F29A	BRC
9. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 18:59	VJ22F29A	BRC

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Client Identification:	BLDI, Inc.	Sample Description:	HA-11 (1.5-2.0)	Chain of Custody:	207427
Client Project Name:	Lowell Soil Pile (225382.02)	Sample No:		Collect Date:	06/24/22
Client Project No:	225382.02	Sample Matrix:	Soil/Solid	Collect Time:	13:24
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ±: Parameter not included in NELAC Scope of Analysis.					

Volatile Organic Compounds (VOCs) by GC/MS, 5035					Aliquot ID: A09405-011A	Matrix: Soil/Solid				
Method: EPA 5035A/EPA 8260D					Description: HA-11 (1.5-2.0)					
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
10. m&p-Xylene	U		µg/kg	100	1.0	06/29/22	VJ22F29A	06/29/22 18:59	VJ22F29A	BRC
11. o-Xylene	U		µg/kg	50	1.0	06/29/22	VJ22F29A	06/29/22 18:59	VJ22F29A	BRC
± 12. Xylenes	U		µg/kg	150	1.0	06/29/22	VJ22F29A	06/29/22 18:59	VJ22F29A	BRC

Polynuclear Aromatic Hydrocarbons (PNAs)						Aliquot ID: A09405-011	Matrix: Soil/Solid			
Method: EPA 3546/EPA 8270E						Description: HA-11 (1.5-2.0)				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Acenaphthene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 01:27	SN22G03B	SJD
2. Acenaphthylene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 01:27	SN22G03B	SJD
3. Anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 01:27	SN22G03B	SJD
4. Benzo(a)anthracene (SIM)	1200		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 01:27	SN22G03B	SJD
5. Benzo(a)pyrene (SIM)	1700		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 01:27	SN22G03B	SJD
6. Benzo(b)fluoranthene (SIM)	2500		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 01:27	SN22G03B	SJD
7. Benzo(ghi)perylene (SIM)	1400		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 01:27	SN22G03B	SJD
8. Benzo(k)fluoranthene (SIM)	830		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 01:27	SN22G03B	SJD
9. Chrysene (SIM)	1400		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 01:27	SN22G03B	SJD
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 01:27	SN22G03B	SJD
11. Fluoranthene (SIM)	2700		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 01:27	SN22G03B	SJD
12. Fluorene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 01:27	SN22G03B	SJD
13. Indeno(1,2,3-cd)pyrene (SIM)	1600		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 01:27	SN22G03B	SJD
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 01:27	SN22G03B	SJD
15. Naphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 01:27	SN22G03B	SJD
16. Phenanthrene (SIM)	1100		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 01:27	SN22G03B	SJD
17. Pyrene (SIM)	2700		µg/kg	330	20	07/03/22	PS22G01I	07/04/22 01:27	SN22G03B	SJD

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Definitions/ Qualifiers:

- A:** Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QC limits

Exception Summary:

- *** : Duplicate analysis not within control limits.
F- : Recovery from the spiked aliquot exceeds the lower control limit (matrix spike or matrix spike duplicate).
F+ : Recovery from the spiked aliquot exceeds the upper control limit (matrix spike or matrix spike duplicate).
H : Hold time exceeded.

Analysis Locations:

All analyses performed in Holt.



Accreditation Number(s):

T104704518-19-8 (TX)

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Chain of Custody #

207426

PAGE 1 of 3

Client Name: BLDI				PARAMETERS												Matrix Code				Deliverables	
Contact Person: Renee Pewitt, Kayla Rockley				<div>MATRIX (SEE RIGHT CORNER FOR CODE)</div> <div># OF CONTAINERS</div> <div>unleaded gasoline</div> <div>PNA's</div> <div>MI 10 metals</div> <div>HOLD SAMPLE</div>												S Soil		GW Ground Water		Level 2	
Project Name/ Number: Louen Soil Pile / 225382.02																A Air		SW Surface Water		Level 3	
Email distribution list: reneep kawlar jordang @bldi.com																O Oil		WW Waste Water		Level 4	
Quote#																P Wipe		X Other: Specify		EDD	
Purchase Order#																					
Date	Time	Sample #	Client Sample Descriptor	Remarks:																	
6/24/22	957		HA-1 (2.0-2.5)	3	2	X	X	X													
	1028		HA-2 (4.5-5.0)																		
	1103		HA-3 (7.0-7.5)																		
	1130		HA-4 (9.5-10)																		
	1142		HA-5 (1.0-1.5)																		
	1200		HA-6 (3.0-3.5)																		
	1217		HA-7 (4.0-4.5)																		
	1247		HA-8 (9.0-9.5)																		
	1256		HA-9 (6.0-6.5)																		
✓	1311		HA-10 (5.0-5.5)	✓	✓	✓	✓	✓													
Comments:																					
Sampled/Relinquished By: [Signature]				Date/Time: 6/24/22				Received By: [Signature] 6-27-22 @ 1400													
Relinquished By: [Signature]				Date/Time: 6-27-22 1552				Received By: [Signature]													
Relinquished By:				Date/Time:				Received By Laboratory:													
Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY																					
LAB USE ONLY																					
Fibertec project number: A09405																					
Temperature upon receipt at Lab: 4.7°C																					
Please see back for terms and conditions																					



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Chain of Custody #
207427
PAGE 2 of 2

Client Name: BLP1				MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	unleaded gasoline PNA's M1 10 metals	PARAMETERS										Matrix Code		Deliverables	
Contact Person: Renee Dewitt, Kayla Rockley							HOLD SAMPLE	S	Soil	GW	Ground Water		Level 2							
Project Name/ Number: Lowell Soil pit / 225382.02								A	Air	SW	Surface Water		Level 3							
Email distribution list: Kaylar renee f jordan g @ bldi.com								O	Oil	ww	Waste Water		Level 4							
Quote#								P	Wipe	x	Other: Specify		EDD							
Purchase Order#				Remarks:																
Date	Time	Sample #	Client Sample Descriptor																	
6/24/22	1324		HA-1' (1.5-2.0)	S	2	X	X	X												
Comments:																				
Sampled/Relinquished By: Kayla				Date/ Time 6/24/22				Received By: [Signature] 6-27-22 @ 1400												
Relinquished By: [Signature]				Date/ Time 6-27-22 1552				Received By: [Signature]												
Relinquished By:				Date/ Time				Received By Laboratory:												
Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY														LAB USE ONLY					Received On loc	
____ 1 bus. day ____ 2 bus. days ____ 3 bus. days ____ 4 bus. days 2 ____ 5-7 bus. days (standard) Other (specify time/date requirement): _____														Fibertec project number: A09405 Temperature upon receipt at Lab: 4.7 C						
Please see back for terms and conditions																				

***KML**



Tuesday, July 12, 2022

Fibertec Project Number: A09406
Project Identification: Lowell Soil Pile (225382.02) /225382.02
Submittal Date: 06/27/2022

Ms. Renee Pewitt
BLDI, Inc.
150 Fountain Street NE
Grand Rapids, MI 49503

Dear Ms. Pewitt,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 7 calendar days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

Due to insufficient volume received, PNA Analysis was not performed for sample SB-5-GW (-0016).

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

By Jacob Sutherland at 4:11 PM, Jul 12, 2022

For Daryl P. Strandbergh
Laboratory Director

Enclosures

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Analytical Laboratory Report
Laboratory Project Number: A09406
Laboratory Sample Number: A09406-001

Order: A09406
Date: 07/12/22

Client Identification:	BLDI, Inc.	Sample Description:	HA-12 (8-8.5)	Chain of Custody:	207428
Client Project Name:	Lowell Soil Pile (225382.02)	Sample No:		Collect Date:	06/27/22
Client Project No:	225382.02	Sample Matrix:	Soil/Solid	Collect Time:	09:04
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ±: Parameter not included in NELAC Scope of Analysis,					

Water (Moisture) Content Dried at 105 ± 5°C
Method: ASTM D2216-10

Aliquot ID: A09406-001 Matrix: Soil/Solid
Description: HA-12 (8-8.5)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init
‡ 1. Percent Moisture (Water Content)	5		%	1	1.0	06/30/22	MC220630	07/01/22	MC220630	AWW

Michigan 10 Elements by ICP/MS
Method: EPA 0200.2/EPA 6020A

Aliquot ID: A09406-001 Matrix: Soil/Solid
Description: HA-12 (8-8.5)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init
1. Arsenic	2700		µg/kg	100	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
2. Barium	27000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
3. Cadmium	180		µg/kg	50	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
4. Chromium	11000		µg/kg	500	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
5. Copper	16000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
6. Lead	12000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
7. Selenium	220		µg/kg	200	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
8. Silver	U		µg/kg	100	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
9. Zinc	46000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH

Mercury by CVAAS
Method: EPA 7471B

Aliquot ID: A09406-001 Matrix: Soil/Solid
Description: HA-12 (8-8.5)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init
1. Mercury	U		µg/kg	50	10	07/01/22	PM22G01D	07/05/22	M722G05A	JLH

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: A09406-001A Matrix: Soil/Solid
Description: HA-12 (8-8.5)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init
1. Benzene	U		µg/kg	50	1.0	06/28/22	VP22F28A	06/28/22 20:07	VP22F28A	BRC
2. Ethylbenzene	U		µg/kg	50	1.0	06/28/22	VP22F28A	06/28/22 20:07	VP22F28A	BRC
‡ 3. 2-Methylnaphthalene	U		µg/kg	330	1.0	06/28/22	VP22F28A	06/28/22 20:07	VP22F28A	BRC
4. MTBE	U		µg/kg	250	1.0	06/28/22	VP22F28A	06/28/22 20:07	VP22F28A	BRC
5. Naphthalene	U		µg/kg	330	1.0	06/28/22	VP22F28A	06/28/22 20:07	VP22F28A	BRC
6. Toluene	U		µg/kg	50	1.0	06/28/22	VP22F28A	06/28/22 20:07	VP22F28A	BRC
‡ 7. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	06/28/22	VP22F28A	06/28/22 20:07	VP22F28A	BRC
8. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	06/28/22	VP22F28A	06/28/22 20:07	VP22F28A	BRC
9. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	06/28/22	VP22F28A	06/28/22 20:07	VP22F28A	BRC

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Analytical Laboratory Report
Laboratory Project Number: A09406
Laboratory Sample Number: A09406-001

Order: A09406
Date: 07/12/22

Client Identification: **BLDI, Inc.** Sample Description: **HA-12 (8-8.5)** Chain of Custody: **207428**
Client Project Name: **Lowell Soil Pile (225382.02)** Sample No: Collect Date: **06/27/22**
Client Project No: **225382.02** Sample Matrix: **Soil/Solid** Collect Time: **09:04**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: **A09406-001A** Matrix: **Soil/Solid**
Description: **HA-12 (8-8.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
10. m&p-Xylene	U		µg/kg	100	1.0	06/28/22	VP22F28A	06/28/22 20:07	VP22F28A	BRC
11. o-Xylene	U		µg/kg	50	1.0	06/28/22	VP22F28A	06/28/22 20:07	VP22F28A	BRC
‡ 12. Xylenes	U		µg/kg	150	1.0	06/28/22	VP22F28A	06/28/22 20:07	VP22F28A	BRC

Polynuclear Aromatic Hydrocarbons (PNAs)
Method: EPA 3546/EPA 8270E

Aliquot ID: **A09406-001** Matrix: **Soil/Solid**
Description: **HA-12 (8-8.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Acenaphthene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 19:45	S622G03B	BDA
2. Acenaphthylene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 19:45	S622G03B	BDA
3. Anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 19:45	S622G03B	BDA
4. Benzo(a)anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 19:45	S622G03B	BDA
5. Benzo(a)pyrene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 19:45	S622G03B	BDA
6. Benzo(b)fluoranthene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 19:45	S622G03B	BDA
7. Benzo(ghi)perylene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 19:45	S622G03B	BDA
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 19:45	S622G03B	BDA
9. Chrysene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 19:45	S622G03B	BDA
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 19:45	S622G03B	BDA
11. Fluoranthene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 19:45	S622G03B	BDA
12. Fluorene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 19:45	S622G03B	BDA
13. Indeno(1,2,3-cd)pyrene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 19:45	S622G03B	BDA
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 19:45	S622G03B	BDA
15. Naphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 19:45	S622G03B	BDA
16. Phenanthrene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 19:45	S622G03B	BDA
17. Pyrene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 19:45	S622G03B	BDA

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Analytical Laboratory Report
Laboratory Project Number: A09406
Laboratory Sample Number: A09406-002

 Order: A09406
 Date: 07/12/22

Client Identification:	BLDI, Inc.	Sample Description:	HA-13 (7.5-8)	Chain of Custody:	207428
Client Project Name:	Lowell Soil Pile (225382.02)	Sample No:		Collect Date:	06/27/22
Client Project No:	225382.02	Sample Matrix:	Soil/Solid	Collect Time:	09:21
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.				

Water (Moisture) Content Dried at 105 ± 5°C
Method: ASTM D2216-10

 Aliquot ID: A09406-002
 Description: HA-13 (7.5-8)
 Matrix: Soil/Solid

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
‡ 1. Percent Moisture (Water Content)	5		%	1	1.0	06/30/22	MC220630	07/01/22	MC220630	AWW

Michigan 10 Elements by ICP/MS
Method: EPA 0200.2/EPA 6020A

 Aliquot ID: A09406-002
 Description: HA-13 (7.5-8)
 Matrix: Soil/Solid

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Arsenic	4500		µg/kg	100	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
2. Barium	27000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
3. Cadmium	330		µg/kg	50	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
4. Chromium	17000		µg/kg	500	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
5. Copper	30000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
6. Lead	29000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
7. Selenium	220		µg/kg	200	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
8. Silver	U		µg/kg	100	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
9. Zinc	79000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH

Mercury by CVAAS
Method: EPA 7471B

 Aliquot ID: A09406-002
 Description: HA-13 (7.5-8)
 Matrix: Soil/Solid

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Mercury	U		µg/kg	50	10	07/01/22	PM22G01D	07/05/22	M722G05A	JLH

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

 Aliquot ID: A09406-002A
 Description: HA-13 (7.5-8)
 Matrix: Soil/Solid

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Benzene	U		µg/kg	50	1.0	06/28/22	VP22F28A	06/28/22 20:33	VP22F28A	BRC
2. Ethylbenzene	U		µg/kg	50	1.0	06/28/22	VP22F28A	06/28/22 20:33	VP22F28A	BRC
‡ 3. 2-Methylnaphthalene	U		µg/kg	330	1.0	06/28/22	VP22F28A	06/28/22 20:33	VP22F28A	BRC
4. MTBE	U		µg/kg	250	1.0	06/28/22	VP22F28A	06/28/22 20:33	VP22F28A	BRC
5. Naphthalene	U		µg/kg	330	1.0	06/28/22	VP22F28A	06/28/22 20:33	VP22F28A	BRC
6. Toluene	U		µg/kg	50	1.0	06/28/22	VP22F28A	06/28/22 20:33	VP22F28A	BRC
‡ 7. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	06/28/22	VP22F28A	06/28/22 20:33	VP22F28A	BRC
8. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	06/28/22	VP22F28A	06/28/22 20:33	VP22F28A	BRC
9. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	06/28/22	VP22F28A	06/28/22 20:33	VP22F28A	BRC

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Analytical Laboratory Report
Laboratory Project Number: A09406
Laboratory Sample Number: A09406-002

Order: A09406
Date: 07/12/22

Client Identification: **BLDI, Inc.** Sample Description: **HA-13 (7.5-8)** Chain of Custody: **207428**
Client Project Name: **Lowell Soil Pile (225382.02)** Sample No: Collect Date: **06/27/22**
Client Project No: **225382.02** Sample Matrix: **Soil/Solid** Collect Time: **09:21**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: **A09406-002A** Matrix: **Soil/Solid**
Description: **HA-13 (7.5-8)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init
10. m&p-Xylene	U		µg/kg	100	1.0	06/28/22	VP22F28A	06/28/22 20:33	VP22F28A	BRC
11. o-Xylene	U		µg/kg	50	1.0	06/28/22	VP22F28A	06/28/22 20:33	VP22F28A	BRC
‡ 12. Xylenes	U		µg/kg	150	1.0	06/28/22	VP22F28A	06/28/22 20:33	VP22F28A	BRC

Polynuclear Aromatic Hydrocarbons (PNAs)
Method: EPA 3546/EPA 8270E

Aliquot ID: **A09406-002** Matrix: **Soil/Solid**
Description: **HA-13 (7.5-8)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init
1. Acenaphthene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 20:12	S622G03B	BDA
2. Acenaphthylene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 20:12	S622G03B	BDA
3. Anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 20:12	S622G03B	BDA
4. Benzo(a)anthracene (SIM)	520		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 20:12	S622G03B	BDA
5. Benzo(a)pyrene (SIM)	440		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 20:12	S622G03B	BDA
6. Benzo(b)fluoranthene (SIM)	770		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 20:12	S622G03B	BDA
7. Benzo(ghi)perylene (SIM)	540		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 20:12	S622G03B	BDA
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 20:12	S622G03B	BDA
9. Chrysene (SIM)	420		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 20:12	S622G03B	BDA
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 20:12	S622G03B	BDA
11. Fluoranthene (SIM)	780		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 20:12	S622G03B	BDA
12. Fluorene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 20:12	S622G03B	BDA
13. Indeno(1,2,3-cd)pyrene (SIM)	450		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 20:12	S622G03B	BDA
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 20:12	S622G03B	BDA
15. Naphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 20:12	S622G03B	BDA
16. Phenanthrene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 20:12	S622G03B	BDA
17. Pyrene (SIM)	670		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 20:12	S622G03B	BDA

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Client Identification:	BLDI, Inc.	Sample Description:	HA-14 (8-8.5)	Chain of Custody:	207428
Client Project Name:	Lowell Soil Pile (225382.02)	Sample No:		Collect Date:	06/27/22
Client Project No:	225382.02	Sample Matrix:	Soil/Solid	Collect Time:	09:40
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.				

Water (Moisture) Content Dried at 105 ± 5°C						Aliquot ID: A09406-003	Matrix: Soil/Solid			
Method: ASTM D2216-10						Description: HA-14 (8-8.5)				
						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	15		%	1	1.0	06/30/22	MC220630	07/01/22	MC220630	AWW

Michigan 10 Elements by ICP/MS					Aliquot ID:	A09406-003		Matrix: Soil/Solid		
Method: EPA 0200.2/EPA 6020A					Description:	HA-14 (8-8.5)				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init
						P. Date	P. Batch	A. Date	A. Batch	
1. Arsenic	11000		µg/kg	100	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
2. Barium	61000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
3. Cadmium	500		µg/kg	50	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
4. Chromium	34000		µg/kg	500	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
5. Copper	11000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
6. Lead	77000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
7. Selenium	370		µg/kg	200	10	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
8. Silver	210		µg/kg	100	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
9. Zinc	97000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH

Mercury by CVAAS						Aliquot ID:	A09406-003	Matrix: Soil/Solid			
Method: EPA 7471B						Description:	HA-14 (8-8.5)				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis			
						P. Date	P. Batch	A. Date	A. Batch	Init.	
1. Mercury	280		µg/kg	50	10	07/01/22	PM22G01D	07/05/22	M722G05A	JLH	

Volatile Organic Compounds (VOCs) by GC/MS, 5035						Aliquot ID:	A09406-003A	Matrix: Soil/Solid			
Method: EPA 5035A/EPA 8260D						Description:	HA-14 (8-8.5)				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init	
						P. Date	P. Batch	A. Date	A. Batch		
1. Benzene	U		µg/kg	50	1.0	06/28/22	VP22F28A	06/28/22 21:00	VP22F28A	BRC	
2. Ethylbenzene	U		µg/kg	50	1.0	06/28/22	VP22F28A	06/28/22 21:00	VP22F28A	BRC	
‡ 3. 2-Methylnaphthalene	U		µg/kg	330	1.0	06/28/22	VP22F28A	06/28/22 21:00	VP22F28A	BRC	
4. MTBE	U		µg/kg	250	1.0	06/28/22	VP22F28A	06/28/22 21:00	VP22F28A	BRC	
5. Naphthalene	U		µg/kg	330	1.0	06/28/22	VP22F28A	06/28/22 21:00	VP22F28A	BRC	
6. Toluene	U		µg/kg	50	1.0	06/28/22	VP22F28A	06/28/22 21:00	VP22F28A	BRC	
‡ 7. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	06/28/22	VP22F28A	06/28/22 21:00	VP22F28A	BRC	
8. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	06/28/22	VP22F28A	06/28/22 21:00	VP22F28A	BRC	
9. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	06/28/22	VP22F28A	06/28/22 21:00	VP22F28A	BRC	

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Analytical Laboratory Report
Laboratory Project Number: A09406
Laboratory Sample Number: A09406-003

Order: A09406
Date: 07/12/22

Client Identification: **BLDI, Inc.** Sample Description: **HA-14 (8-8.5)** Chain of Custody: **207428**
Client Project Name: **Lowell Soil Pile (225382.02)** Sample No: Collect Date: **06/27/22**
Client Project No: **225382.02** Sample Matrix: **Soil/Solid** Collect Time: **09:40**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: **A09406-003A** Matrix: **Soil/Solid**
Description: **HA-14 (8-8.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
10. m&p-Xylene	U		µg/kg	100	1.0	06/28/22	VP22F28A	06/28/22 21:00	VP22F28A	BRC
11. o-Xylene	U		µg/kg	50	1.0	06/28/22	VP22F28A	06/28/22 21:00	VP22F28A	BRC
‡ 12. Xylenes	U		µg/kg	150	1.0	06/28/22	VP22F28A	06/28/22 21:00	VP22F28A	BRC

Polynuclear Aromatic Hydrocarbons (PNAs)
Method: EPA 3546/EPA 8270E

Aliquot ID: **A09406-003** Matrix: **Soil/Solid**
Description: **HA-14 (8-8.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Acenaphthene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01I	07/03/22 20:40	S622G03B	BDA
2. Acenaphthylene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01I	07/03/22 20:40	S622G03B	BDA
3. Anthracene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01I	07/03/22 20:40	S622G03B	BDA
4. Benzo(a)anthracene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01I	07/03/22 20:40	S622G03B	BDA
5. Benzo(a)pyrene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01I	07/03/22 20:40	S622G03B	BDA
6. Benzo(b)fluoranthene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01I	07/03/22 20:40	S622G03B	BDA
7. Benzo(ghi)perylene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01I	07/03/22 20:40	S622G03B	BDA
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01I	07/03/22 20:40	S622G03B	BDA
9. Chrysene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01I	07/03/22 20:40	S622G03B	BDA
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01I	07/03/22 20:40	S622G03B	BDA
11. Fluoranthene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01I	07/03/22 20:40	S622G03B	BDA
12. Fluorene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01I	07/03/22 20:40	S622G03B	BDA
13. Indeno(1,2,3-cd)pyrene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01I	07/03/22 20:40	S622G03B	BDA
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01I	07/03/22 20:40	S622G03B	BDA
15. Naphthalene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01I	07/03/22 20:40	S622G03B	BDA
16. Phenanthrene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01I	07/03/22 20:40	S622G03B	BDA
17. Pyrene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01I	07/03/22 20:40	S622G03B	BDA

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Analytical Laboratory Report
Laboratory Project Number: A09406
Laboratory Sample Number: A09406-004

Order: A09406
Date: 07/12/22

Client Identification:	BLDI, Inc.	Sample Description:	HA-15 (6.5-7)	Chain of Custody:	207428
Client Project Name:	Lowell Soil Pile (225382.02)	Sample No:		Collect Date:	06/27/22
Client Project No:	225382.02	Sample Matrix:	Soil/Solid	Collect Time:	09:51
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C
Method: ASTM D2216-10

Aliquot ID: A09406-004 **Matrix: Soil/Solid**
Description: HA-15 (6.5-7)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	3		%	1	1.0	06/30/22	MC220630	07/01/22	MC220630	AWW

Michigan 10 Elements by ICP/MS
Method: EPA 0200.2/EPA 6020A

Aliquot ID: A09406-004 **Matrix: Soil/Solid**
Description: HA-15 (6.5-7)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Arsenic	2600		µg/kg	100	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
2. Barium	38000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
3. Cadmium	230		µg/kg	50	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
4. Chromium	18000		µg/kg	500	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
5. Copper	31000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
6. Lead	18000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
7. Selenium	230		µg/kg	200	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
8. Silver	U		µg/kg	100	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
9. Zinc	99000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH

Mercury by CVAAS
Method: EPA 7471B

Aliquot ID: A09406-004 **Matrix: Soil/Solid**
Description: HA-15 (6.5-7)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Mercury	U		µg/kg	50	10	07/01/22	PM22G01D	07/05/22	M722G05A	JLH

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: A09406-004A **Matrix: Soil/Solid**
Description: HA-15 (6.5-7)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Benzene	U		µg/kg	50	1.0	06/29/22	VP22F29A	06/29/22 16:17	VP22F29A	BRC
2. Ethylbenzene	U		µg/kg	50	1.0	06/29/22	VP22F29A	06/29/22 16:17	VP22F29A	BRC
‡ 3. 2-Methylnaphthalene	U		µg/kg	330	1.0	06/29/22	VP22F29A	06/29/22 16:17	VP22F29A	BRC
4. MTBE	U		µg/kg	250	1.0	06/29/22	VP22F29A	06/29/22 16:17	VP22F29A	BRC
5. Naphthalene	U		µg/kg	330	1.0	06/29/22	VP22F29A	06/29/22 16:17	VP22F29A	BRC
6. Toluene	U		µg/kg	50	1.0	06/29/22	VP22F29A	06/29/22 16:17	VP22F29A	BRC
‡ 7. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VP22F29A	06/29/22 16:17	VP22F29A	BRC
8. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VP22F29A	06/29/22 16:17	VP22F29A	BRC
9. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VP22F29A	06/29/22 16:17	VP22F29A	BRC

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Analytical Laboratory Report
Laboratory Project Number: A09406
Laboratory Sample Number: A09406-004

Order: A09406
Date: 07/12/22

Client Identification:	BLDI, Inc.	Sample Description:	HA-15 (6.5-7)	Chain of Custody:	207428
Client Project Name:	Lowell Soil Pile (225382.02)	Sample No:		Collect Date:	06/27/22
Client Project No:	225382.02	Sample Matrix:	Soil/Solid	Collect Time:	09:51
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.				

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: A09406-004A **Matrix: Soil/Solid**
Description: HA-15 (6.5-7)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init
10. m&p-Xylene	U		µg/kg	100	1.0	06/29/22	VP22F29A	06/29/22 16:17	VP22F29A	BRC
11. o-Xylene	U		µg/kg	50	1.0	06/29/22	VP22F29A	06/29/22 16:17	VP22F29A	BRC
‡ 12. Xylenes	U		µg/kg	150	1.0	06/29/22	VP22F29A	06/29/22 16:17	VP22F29A	BRC

Polynuclear Aromatic Hydrocarbons (PNAs)
Method: EPA 3546/EPA 8270E

Aliquot ID: A09406-004 **Matrix: Soil/Solid**
Description: HA-15 (6.5-7)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init
1. Acenaphthene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:08	S622G03B	BDA
2. Acenaphthylene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:08	S622G03B	BDA
3. Anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:08	S622G03B	BDA
4. Benzo(a)anthracene (SIM)	1300		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:08	S622G03B	BDA
5. Benzo(a)pyrene (SIM)	1700		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:08	S622G03B	BDA
6. Benzo(b)fluoranthene (SIM)	2900		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:08	S622G03B	BDA
7. Benzo(ghi)perylene (SIM)	2000		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:08	S622G03B	BDA
8. Benzo(k)fluoranthene (SIM)	820		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:08	S622G03B	BDA
9. Chrysene (SIM)	1700		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:08	S622G03B	BDA
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:08	S622G03B	BDA
11. Fluoranthene (SIM)	2800		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:08	S622G03B	BDA
12. Fluorene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:08	S622G03B	BDA
13. Indeno(1,2,3-cd)pyrene (SIM)	1700		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:08	S622G03B	BDA
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:08	S622G03B	BDA
15. Naphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:08	S622G03B	BDA
16. Phenanthrene (SIM)	1000		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:08	S622G03B	BDA
17. Pyrene (SIM)	2500		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:08	S622G03B	BDA

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Client Identification:	BLDI, Inc.	Sample Description:	HA-16 (5.5-6)	Chain of Custody:	207428
Client Project Name:	Lowell Soil Pile (225382.02)	Sample No:		Collect Date:	06/27/22
Client Project No:	225382.02	Sample Matrix:	Soil/Solid	Collect Time:	10:06
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C					Aliquot ID: A09406-005		Matrix: Soil/Solid			
Method: ASTM D2216-10					Description: HA-16 (5.5-6)					
					Preparation		Analysis			
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	2		%	1	1.0	06/30/22	MC220630	07/01/22	MC220630	AWW

Michigan 10 Elements by ICP/MS					Aliquot ID: A09406-005	Matrix: Soil/Solid				
Method: EPA 0200.2/EPA 6020A					Description: HA-16 (5.5-6)					
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Arsenic	2600		µg/kg	100	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
2. Barium	46000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
3. Cadmium	270		µg/kg	50	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
4. Chromium	33000		µg/kg	500	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
5. Copper	50000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
6. Lead	47000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
7. Selenium	230		µg/kg	200	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
8. Silver	U		µg/kg	100	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
9. Zinc	150000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH

Mercury by CVAAS					Aliquot ID: A09406-005	Matrix: Soil/Solid				
Method: EPA 7471B					Description: HA-16 (5.5-6)					
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Mercury	U		µg/kg	50	10	07/01/22	PM22G01D	07/05/22	M722G05A	JLH

Volatile Organic Compounds (VOCs) by GC/MS, 5035					Aliquot ID: A09406-005A	Matrix: Soil/Solid				
Method: EPA 5035A/EPA 8260D					Description: HA-16 (5.5-6)					
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Benzene	U		µg/kg	50	1.0	06/29/22	VP22F29A	06/29/22 16:44	VP22F29A	BRC
2. Ethylbenzene	U		µg/kg	50	1.0	06/29/22	VP22F29A	06/29/22 16:44	VP22F29A	BRC
‡ 3. 2-Methylnaphthalene	U		µg/kg	330	1.0	06/29/22	VP22F29A	06/29/22 16:44	VP22F29A	BRC
4. MTBE	U		µg/kg	250	1.0	06/29/22	VP22F29A	06/29/22 16:44	VP22F29A	BRC
5. Naphthalene	U		µg/kg	330	1.0	06/29/22	VP22F29A	06/29/22 16:44	VP22F29A	BRC
6. Toluene	U		µg/kg	50	1.0	06/29/22	VP22F29A	06/29/22 16:44	VP22F29A	BRC
‡ 7. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VP22F29A	06/29/22 16:44	VP22F29A	BRC
8. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VP22F29A	06/29/22 16:44	VP22F29A	BRC
9. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VP22F29A	06/29/22 16:44	VP22F29A	BRC

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Analytical Laboratory Report
Laboratory Project Number: A09406
Laboratory Sample Number: A09406-005

Order: A09406
Date: 07/12/22

Client Identification:	BLDI, Inc.	Sample Description:	HA-16 (5.5-6)	Chain of Custody:	207428
Client Project Name:	Lowell Soil Pile (225382.02)	Sample No:		Collect Date:	06/27/22
Client Project No:	225382.02	Sample Matrix:	Soil/Solid	Collect Time:	10:06
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: A09406-005A Matrix: Soil/Solid
Description: HA-16 (5.5-6)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
10. m&p-Xylene	U		µg/kg	100	1.0	06/29/22	VP22F29A	06/29/22 16:44	VP22F29A	BRC
11. o-Xylene	U		µg/kg	50	1.0	06/29/22	VP22F29A	06/29/22 16:44	VP22F29A	BRC
‡ 12. Xylenes	U		µg/kg	150	1.0	06/29/22	VP22F29A	06/29/22 16:44	VP22F29A	BRC

Polynuclear Aromatic Hydrocarbons (PNAs)
Method: EPA 3546/EPA 8270E

Aliquot ID: A09406-005 Matrix: Soil/Solid
Description: HA-16 (5.5-6)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Acenaphthene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:35	S622G03B	BDA
2. Acenaphthylene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:35	S622G03B	BDA
3. Anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:35	S622G03B	BDA
4. Benzo(a)anthracene (SIM)	580		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:35	S622G03B	BDA
5. Benzo(a)pyrene (SIM)	650		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:35	S622G03B	BDA
6. Benzo(b)fluoranthene (SIM)	1100		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:35	S622G03B	BDA
7. Benzo(ghi)perylene (SIM)	830		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:35	S622G03B	BDA
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:35	S622G03B	BDA
9. Chrysene (SIM)	650		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:35	S622G03B	BDA
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:35	S622G03B	BDA
11. Fluoranthene (SIM)	1300		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:35	S622G03B	BDA
12. Fluorene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:35	S622G03B	BDA
13. Indeno(1,2,3-cd)pyrene (SIM)	680		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:35	S622G03B	BDA
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:35	S622G03B	BDA
15. Naphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:35	S622G03B	BDA
16. Phenanthrene (SIM)	460		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:35	S622G03B	BDA
17. Pyrene (SIM)	1100		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 21:35	S622G03B	BDA

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Analytical Laboratory Report
Laboratory Project Number: A09406
Laboratory Sample Number: A09406-006

Order: A09406
 Date: 07/12/22

Client Identification:	BLDI, Inc.	Sample Description:	HA-17 (4-4.5)	Chain of Custody:	207428
Client Project Name:	Lowell Soil Pile (225382.02)	Sample No:		Collect Date:	06/27/22
Client Project No:	225382.02	Sample Matrix:	Soil/Solid	Collect Time:	10:23
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.				

Water (Moisture) Content Dried at 105 ± 5°C
Method: ASTM D2216-10

Aliquot ID: A09406-006
Description: HA-17 (4-4.5)
Matrix: Soil/Solid

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	3		%	1	1.0	06/30/22	MC220630	07/01/22	MC220630	AWW

Michigan 10 Elements by ICP/MS
Method: EPA 0200.2/EPA 6020A

Aliquot ID: A09406-006
Description: HA-17 (4-4.5)
Matrix: Soil/Solid

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Arsenic	3000		µg/kg	100	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
2. Barium	32000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
3. Cadmium	350		µg/kg	50	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
4. Chromium	18000		µg/kg	500	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
5. Copper	20000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
6. Lead	38000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
7. Selenium	310		µg/kg	200	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
8. Silver	U		µg/kg	100	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
9. Zinc	78000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH

Mercury by CVAAS
Method: EPA 7471B

Aliquot ID: A09406-006
Description: HA-17 (4-4.5)
Matrix: Soil/Solid

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Mercury	U		µg/kg	50	10	07/01/22	PM22G01D	07/05/22	M722G05A	JLH

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: A09406-006A
Description: HA-17 (4-4.5)
Matrix: Soil/Solid

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Benzene	U		µg/kg	50	1.0	06/29/22	VP22F29A	06/29/22 17:11	VP22F29A	BRC
2. Ethylbenzene	U		µg/kg	50	1.0	06/29/22	VP22F29A	06/29/22 17:11	VP22F29A	BRC
‡ 3. 2-Methylnaphthalene	U		µg/kg	330	1.0	06/29/22	VP22F29A	06/29/22 17:11	VP22F29A	BRC
4. MTBE	U		µg/kg	250	1.0	06/29/22	VP22F29A	06/29/22 17:11	VP22F29A	BRC
5. Naphthalene	U		µg/kg	330	1.0	06/29/22	VP22F29A	06/29/22 17:11	VP22F29A	BRC
6. Toluene	85		µg/kg	50	1.0	06/29/22	VP22F29A	06/29/22 17:11	VP22F29A	BRC
‡ 7. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VP22F29A	06/29/22 17:11	VP22F29A	BRC
8. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VP22F29A	06/29/22 17:11	VP22F29A	BRC
9. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VP22F29A	06/29/22 17:11	VP22F29A	BRC

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Analytical Laboratory Report
Laboratory Project Number: A09406
Laboratory Sample Number: A09406-006

Order: A09406
Date: 07/12/22

Client Identification:	BLDI, Inc.	Sample Description:	HA-17 (4-4.5)	Chain of Custody:	207428
Client Project Name:	Lowell Soil Pile (225382.02)	Sample No:		Collect Date:	06/27/22
Client Project No:	225382.02	Sample Matrix:	Soil/Solid	Collect Time:	10:23
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.				

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: A09406-006A Matrix: Soil/Solid
Description: HA-17 (4-4.5)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
10. m&p-Xylene	110		µg/kg	100	1.0	06/29/22	VP22F29A	06/29/22 17:11	VP22F29A	BRC
11. o-Xylene	76		µg/kg	50	1.0	06/29/22	VP22F29A	06/29/22 17:11	VP22F29A	BRC
‡ 12. Xylenes	190		µg/kg	150	1.0	06/29/22	VP22F29A	06/29/22 17:11	VP22F29A	BRC

Polynuclear Aromatic Hydrocarbons (PNAs)
Method: EPA 3546/EPA 8270E

Aliquot ID: A09406-006 Matrix: Soil/Solid
Description: HA-17 (4-4.5)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Acenaphthene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:03	S622G03B	BDA
2. Acenaphthylene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:03	S622G03B	BDA
3. Anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:03	S622G03B	BDA
4. Benzo(a)anthracene (SIM)	600		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:03	S622G03B	BDA
5. Benzo(a)pyrene (SIM)	650		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:03	S622G03B	BDA
6. Benzo(b)fluoranthene (SIM)	1100		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:03	S622G03B	BDA
7. Benzo(ghi)perylene (SIM)	750		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:03	S622G03B	BDA
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:03	S622G03B	BDA
9. Chrysene (SIM)	610		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:03	S622G03B	BDA
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:03	S622G03B	BDA
11. Fluoranthene (SIM)	970		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:03	S622G03B	BDA
12. Fluorene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:03	S622G03B	BDA
13. Indeno(1,2,3-cd)pyrene (SIM)	660		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:03	S622G03B	BDA
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:03	S622G03B	BDA
15. Naphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:03	S622G03B	BDA
16. Phenanthrene (SIM)	430		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:03	S622G03B	BDA
17. Pyrene (SIM)	890		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:03	S622G03B	BDA

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Analytical Laboratory Report
Laboratory Project Number: A09406
Laboratory Sample Number: A09406-007

Order: A09406
Date: 07/12/22

Client Identification: BLDI, Inc.	Sample Description: HA-18 (3.5-4)	Chain of Custody: 207428
Client Project Name: Lowell Soil Pile (225382.02)	Sample No:	Collect Date: 06/27/22
Client Project No: 225382.02	Sample Matrix: Soil/Solid	Collect Time: 10:31
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.		
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.		

Water (Moisture) Content Dried at 105 ± 5°C
Method: ASTM D2216-10

Aliquot ID: **A09406-007** Matrix: **Soil/Solid**
Description: **HA-18 (3.5-4)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
‡ 1. Percent Moisture (Water Content)	2		%	1	1.0	06/30/22	MC220630	07/01/22	MC220630	AWW

Michigan 10 Elements by ICP/MS
Method: EPA 0200.2/EPA 6020A

Aliquot ID: **A09406-007** Matrix: **Soil/Solid**
Description: **HA-18 (3.5-4)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Arsenic	3300		µg/kg	100	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
2. Barium	31000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
3. Cadmium	210		µg/kg	50	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
4. Chromium	13000		µg/kg	500	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
5. Copper	21000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
6. Lead	16000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
7. Selenium	U		µg/kg	200	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
8. Silver	U		µg/kg	100	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
9. Zinc	58000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH

Mercury by CVAAS
Method: EPA 7471B

Aliquot ID: **A09406-007** Matrix: **Soil/Solid**
Description: **HA-18 (3.5-4)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Mercury	U		µg/kg	50	10	07/01/22	PM22G01D	07/05/22	M722G05A	JLH

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: **A09406-007A** Matrix: **Soil/Solid**
Description: **HA-18 (3.5-4)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Benzene	U		µg/kg	50	1.0	06/29/22	VP22F29A	06/29/22 17:37	VP22F29A	BRC
2. Ethylbenzene	U		µg/kg	50	1.0	06/29/22	VP22F29A	06/29/22 17:37	VP22F29A	BRC
‡ 3. 2-Methylnaphthalene	U		µg/kg	330	1.0	06/29/22	VP22F29A	06/29/22 17:37	VP22F29A	BRC
4. MTBE	U		µg/kg	250	1.0	06/29/22	VP22F29A	06/29/22 17:37	VP22F29A	BRC
5. Naphthalene	U		µg/kg	330	1.0	06/29/22	VP22F29A	06/29/22 17:37	VP22F29A	BRC
6. Toluene	U		µg/kg	50	1.0	06/29/22	VP22F29A	06/29/22 17:37	VP22F29A	BRC
‡ 7. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VP22F29A	06/29/22 17:37	VP22F29A	BRC
8. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VP22F29A	06/29/22 17:37	VP22F29A	BRC
9. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VP22F29A	06/29/22 17:37	VP22F29A	BRC

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Analytical Laboratory Report
Laboratory Project Number: A09406
Laboratory Sample Number: A09406-007

Order: A09406
Date: 07/12/22

Client Identification: **BLDI, Inc.** Sample Description: **HA-18 (3.5-4)** Chain of Custody: **207428**
Client Project Name: **Lowell Soil Pile (225382.02)** Sample No: Collect Date: **06/27/22**
Client Project No: **225382.02** Sample Matrix: **Soil/Solid** Collect Time: **10:31**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: A09406-007A **Matrix: Soil/Solid**
Description: HA-18 (3.5-4)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
10. m&p-Xylene	U		µg/kg	100	1.0	06/29/22	VP22F29A	06/29/22 17:37	VP22F29A	BRC
11. o-Xylene	U		µg/kg	50	1.0	06/29/22	VP22F29A	06/29/22 17:37	VP22F29A	BRC
‡ 12. Xylenes	U		µg/kg	150	1.0	06/29/22	VP22F29A	06/29/22 17:37	VP22F29A	BRC

Polynuclear Aromatic Hydrocarbons (PNAs)
Method: EPA 3546/EPA 8270E

Aliquot ID: A09406-007 **Matrix: Soil/Solid**
Description: HA-18 (3.5-4)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Acenaphthene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:31	S622G03B	BDA
2. Acenaphthylene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:31	S622G03B	BDA
3. Anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:31	S622G03B	BDA
4. Benzo(a)anthracene (SIM)	530		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:31	S622G03B	BDA
5. Benzo(a)pyrene (SIM)	460		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:31	S622G03B	BDA
6. Benzo(b)fluoranthene (SIM)	810		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:31	S622G03B	BDA
7. Benzo(ghi)perylene (SIM)	520		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:31	S622G03B	BDA
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:31	S622G03B	BDA
9. Chrysene (SIM)	440		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:31	S622G03B	BDA
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:31	S622G03B	BDA
11. Fluoranthene (SIM)	910		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:31	S622G03B	BDA
12. Fluorene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:31	S622G03B	BDA
13. Indeno(1,2,3-cd)pyrene (SIM)	450		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:31	S622G03B	BDA
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:31	S622G03B	BDA
15. Naphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:31	S622G03B	BDA
16. Phenanthrene (SIM)	380		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:31	S622G03B	BDA
17. Pyrene (SIM)	760		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:31	S622G03B	BDA

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Analytical Laboratory Report
Laboratory Project Number: A09406
Laboratory Sample Number: A09406-008

Order: A09406
Date: 07/12/22

Client Identification:	BLDI, Inc.	Sample Description:	HA-19 (2.5-3)	Chain of Custody:	207428
Client Project Name:	Lowell Soil Pile (225382.02)	Sample No:		Collect Date:	06/27/22
Client Project No:	225382.02	Sample Matrix:	Soil/Solid	Collect Time:	10:42
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C
Method: ASTM D2216-10

Aliquot ID: A09406-008 **Matrix: Soil/Solid**
Description: HA-19 (2.5-3)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
‡ 1. Percent Moisture (Water Content)	3		%	1	1.0	06/30/22	MC220630	07/01/22	MC220630	AWW

Michigan 10 Elements by ICP/MS
Method: EPA 0200.2/EPA 6020A

Aliquot ID: A09406-008 **Matrix: Soil/Solid**
Description: HA-19 (2.5-3)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Arsenic	3400		µg/kg	100	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
2. Barium	34000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
3. Cadmium	310		µg/kg	50	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
4. Chromium	17000		µg/kg	500	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
5. Copper	27000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
6. Lead	22000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
7. Selenium	U		µg/kg	200	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
8. Silver	U		µg/kg	100	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
9. Zinc	110000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH

Mercury by CVAAS
Method: EPA 7471B

Aliquot ID: A09406-008 **Matrix: Soil/Solid**
Description: HA-19 (2.5-3)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Mercury	U		µg/kg	50	10	07/01/22	PM22G01D	07/05/22	M722G05A	JLH

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: A09406-008A **Matrix: Soil/Solid**
Description: HA-19 (2.5-3)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Benzene	U		µg/kg	50	1.0	06/29/22	VP22F29A	06/29/22 18:04	VP22F29A	BRC
2. Ethylbenzene	U		µg/kg	50	1.0	06/29/22	VP22F29A	06/29/22 18:04	VP22F29A	BRC
‡ 3. 2-Methylnaphthalene	U		µg/kg	330	1.0	06/29/22	VP22F29A	06/29/22 18:04	VP22F29A	BRC
4. MTBE	U		µg/kg	250	1.0	06/29/22	VP22F29A	06/29/22 18:04	VP22F29A	BRC
5. Naphthalene	U		µg/kg	330	1.0	06/29/22	VP22F29A	06/29/22 18:04	VP22F29A	BRC
6. Toluene	U		µg/kg	50	1.0	06/29/22	VP22F29A	06/29/22 18:04	VP22F29A	BRC
‡ 7. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VP22F29A	06/29/22 18:04	VP22F29A	BRC
8. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VP22F29A	06/29/22 18:04	VP22F29A	BRC
9. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VP22F29A	06/29/22 18:04	VP22F29A	BRC

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Analytical Laboratory Report
Laboratory Project Number: A09406
Laboratory Sample Number: A09406-008

Order: A09406
Date: 07/12/22

Client Identification: **BLDI, Inc.** Sample Description: **HA-19 (2.5-3)** Chain of Custody: **207428**
Client Project Name: **Lowell Soil Pile (225382.02)** Sample No: Collect Date: **06/27/22**
Client Project No: **225382.02** Sample Matrix: **Soil/Solid** Collect Time: **10:42**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: **A09406-008A** Matrix: **Soil/Solid**
Description: **HA-19 (2.5-3)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
10. m&p-Xylene	U		µg/kg	100	1.0	06/29/22	VP22F29A	06/29/22 18:04	VP22F29A	BRC
11. o-Xylene	U		µg/kg	50	1.0	06/29/22	VP22F29A	06/29/22 18:04	VP22F29A	BRC
‡ 12. Xylenes	U		µg/kg	150	1.0	06/29/22	VP22F29A	06/29/22 18:04	VP22F29A	BRC

Polynuclear Aromatic Hydrocarbons (PNAs)
Method: EPA 3546/EPA 8270E

Aliquot ID: **A09406-008** Matrix: **Soil/Solid**
Description: **HA-19 (2.5-3)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Acenaphthene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:58	S622G03B	BDA
2. Acenaphthylene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:58	S622G03B	BDA
3. Anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:58	S622G03B	BDA
4. Benzo(a)anthracene (SIM)	1300		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:58	S622G03B	BDA
5. Benzo(a)pyrene (SIM)	1700		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:58	S622G03B	BDA
6. Benzo(b)fluoranthene (SIM)	3000		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:58	S622G03B	BDA
7. Benzo(ghi)perylene (SIM)	1700		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:58	S622G03B	BDA
8. Benzo(k)fluoranthene (SIM)	790		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:58	S622G03B	BDA
9. Chrysene (SIM)	1800		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:58	S622G03B	BDA
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:58	S622G03B	BDA
11. Fluoranthene (SIM)	3400		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:58	S622G03B	BDA
12. Fluorene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:58	S622G03B	BDA
13. Indeno(1,2,3-cd)pyrene (SIM)	1600		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:58	S622G03B	BDA
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:58	S622G03B	BDA
15. Naphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:58	S622G03B	BDA
16. Phenanthrene (SIM)	1600		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:58	S622G03B	BDA
17. Pyrene (SIM)	2900		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 22:58	S622G03B	BDA

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Analytical Laboratory Report
Laboratory Project Number: A09406
Laboratory Sample Number: A09406-009

Order: A09406
Date: 07/12/22

Client Identification:	BLDI, Inc.	Sample Description:	HA-20 (0.5-1)	Chain of Custody:	207428
Client Project Name:	Lowell Soil Pile (225382.02)	Sample No:		Collect Date:	06/27/22
Client Project No:	225382.02	Sample Matrix:	Soil/Solid	Collect Time:	11:07
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C
Method: ASTM D2216-10

Aliquot ID: A09406-009 **Matrix: Soil/Solid**
Description: HA-20 (0.5-1)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
‡ 1. Percent Moisture (Water Content)	3		%	1	1.0	06/30/22	MC220630	07/01/22	MC220630	AWW

Michigan 10 Elements by ICP/MS
Method: EPA 0200.2/EPA 6020A

Aliquot ID: A09406-009 **Matrix: Soil/Solid**
Description: HA-20 (0.5-1)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Arsenic	3000		µg/kg	100	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
2. Barium	54000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
3. Cadmium	310		µg/kg	50	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
4. Chromium	25000		µg/kg	500	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
5. Copper	20000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
6. Lead	78000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
7. Selenium	U		µg/kg	200	10	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
8. Silver	U		µg/kg	100	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
9. Zinc	140000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH

Mercury by CVAAS
Method: EPA 7471B

Aliquot ID: A09406-009 **Matrix: Soil/Solid**
Description: HA-20 (0.5-1)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Mercury	U		µg/kg	50	10	07/01/22	PM22G01D	07/05/22	M722G05A	JLH

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: A09406-009A **Matrix: Soil/Solid**
Description: HA-20 (0.5-1)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Benzene	U		µg/kg	50	1.0	06/29/22	VP22F29A	06/29/22 18:31	VP22F29A	BRC
2. Ethylbenzene	U		µg/kg	50	1.0	06/29/22	VP22F29A	06/29/22 18:31	VP22F29A	BRC
‡ 3. 2-Methylnaphthalene	U		µg/kg	330	1.0	06/29/22	VP22F29A	06/29/22 18:31	VP22F29A	BRC
4. MTBE	U		µg/kg	250	1.0	06/29/22	VP22F29A	06/29/22 18:31	VP22F29A	BRC
5. Naphthalene	U		µg/kg	330	1.0	06/29/22	VP22F29A	06/29/22 18:31	VP22F29A	BRC
6. Toluene	U		µg/kg	50	1.0	06/29/22	VP22F29A	06/29/22 18:31	VP22F29A	BRC
‡ 7. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VP22F29A	06/29/22 18:31	VP22F29A	BRC
8. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VP22F29A	06/29/22 18:31	VP22F29A	BRC
9. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VP22F29A	06/29/22 18:31	VP22F29A	BRC

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Analytical Laboratory Report
Laboratory Project Number: A09406
Laboratory Sample Number: A09406-009

Order: A09406
Date: 07/12/22

Client Identification: **BLDI, Inc.** Sample Description: **HA-20 (0.5-1)** Chain of Custody: **207428**
Client Project Name: **Lowell Soil Pile (225382.02)** Sample No: Collect Date: **06/27/22**
Client Project No: **225382.02** Sample Matrix: **Soil/Solid** Collect Time: **11:07**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: **A09406-009A** Matrix: **Soil/Solid**
Description: **HA-20 (0.5-1)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
10. m&p-Xylene	U		µg/kg	100	1.0	06/29/22	VP22F29A	06/29/22 18:31	VP22F29A	BRC
11. o-Xylene	U		µg/kg	50	1.0	06/29/22	VP22F29A	06/29/22 18:31	VP22F29A	BRC
‡ 12. Xylenes	U		µg/kg	150	1.0	06/29/22	VP22F29A	06/29/22 18:31	VP22F29A	BRC

Polynuclear Aromatic Hydrocarbons (PNAs)
Method: EPA 3546/EPA 8270E

Aliquot ID: **A09406-009** Matrix: **Soil/Solid**
Description: **HA-20 (0.5-1)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Acenaphthene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 23:26	S622G03B	BDA
2. Acenaphthylene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 23:26	S622G03B	BDA
3. Anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 23:26	S622G03B	BDA
4. Benzo(a)anthracene (SIM)	730		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 23:26	S622G03B	BDA
5. Benzo(a)pyrene (SIM)	890		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 23:26	S622G03B	BDA
6. Benzo(b)fluoranthene (SIM)	1500		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 23:26	S622G03B	BDA
7. Benzo(ghi)perylene (SIM)	1000		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 23:26	S622G03B	BDA
8. Benzo(k)fluoranthene (SIM)	410		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 23:26	S622G03B	BDA
9. Chrysene (SIM)	820		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 23:26	S622G03B	BDA
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 23:26	S622G03B	BDA
11. Fluoranthene (SIM)	1600		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 23:26	S622G03B	BDA
12. Fluorene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 23:26	S622G03B	BDA
13. Indeno(1,2,3-cd)pyrene (SIM)	920		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 23:26	S622G03B	BDA
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 23:26	S622G03B	BDA
15. Naphthalene (SIM)	U		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 23:26	S622G03B	BDA
16. Phenanthrene (SIM)	710		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 23:26	S622G03B	BDA
17. Pyrene (SIM)	1400		µg/kg	330	20	07/03/22	PS22G01I	07/03/22 23:26	S622G03B	BDA

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Analytical Laboratory Report
Laboratory Project Number: A09406
Laboratory Sample Number: A09406-010

Order: A09406
Date: 07/12/22

Client Identification:	BLDI, Inc.	Sample Description:	HA-21 (0.5-1)	Chain of Custody:	207428
Client Project Name:	Lowell Soil Pile (225382.02)	Sample No:		Collect Date:	06/27/22
Client Project No:	225382.02	Sample Matrix:	Soil/Solid	Collect Time:	11:18
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.				

Water (Moisture) Content Dried at 105 ± 5°C
Method: ASTM D2216-10

Aliquot ID: A09406-010
Description: HA-21 (0.5-1)
Matrix: Soil/Solid

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	4		%	1	1.0	06/30/22	MC220630	07/01/22	MC220630	AWW

Michigan 10 Elements by ICP/MS
Method: EPA 0200.2/EPA 6020A

Aliquot ID: A09406-010
Description: HA-21 (0.5-1)
Matrix: Soil/Solid

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Arsenic	2200		µg/kg	100	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
2. Barium	21000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
3. Cadmium	140		µg/kg	50	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
4. Chromium	11000		µg/kg	500	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
5. Copper	13000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
6. Lead	12000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
7. Selenium	230		µg/kg	200	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
8. Silver	U		µg/kg	100	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH
9. Zinc	48000		µg/kg	1000	20	07/01/22	PT22G01C	07/01/22	T422G01A	JLH

Mercury by CVAAS
Method: EPA 7471B

Aliquot ID: A09406-010
Description: HA-21 (0.5-1)
Matrix: Soil/Solid

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Mercury	U		µg/kg	50	10	07/01/22	PM22G01D	07/05/22	M722G05A	JLH

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: A09406-010A
Description: HA-21 (0.5-1)
Matrix: Soil/Solid

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Benzene	U		µg/kg	50	1.0	06/29/22	VP22F29A	06/29/22 18:57	VP22F29A	BRC
2. Ethylbenzene	U		µg/kg	50	1.0	06/29/22	VP22F29A	06/29/22 18:57	VP22F29A	BRC
‡ 3. 2-Methylnaphthalene	U		µg/kg	330	1.0	06/29/22	VP22F29A	06/29/22 18:57	VP22F29A	BRC
4. MTBE	U		µg/kg	250	1.0	06/29/22	VP22F29A	06/29/22 18:57	VP22F29A	BRC
5. Naphthalene	U		µg/kg	330	1.0	06/29/22	VP22F29A	06/29/22 18:57	VP22F29A	BRC
6. Toluene	U		µg/kg	50	1.0	06/29/22	VP22F29A	06/29/22 18:57	VP22F29A	BRC
‡ 7. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VP22F29A	06/29/22 18:57	VP22F29A	BRC
8. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VP22F29A	06/29/22 18:57	VP22F29A	BRC
9. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	06/29/22	VP22F29A	06/29/22 18:57	VP22F29A	BRC

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Analytical Laboratory Report
Laboratory Project Number: A09406
Laboratory Sample Number: A09406-010

Order: A09406
Date: 07/12/22

Client Identification:	BLDI, Inc.	Sample Description:	HA-21 (0.5-1)	Chain of Custody:	207428
Client Project Name:	Lowell Soil Pile (225382.02)	Sample No:		Collect Date:	06/27/22
Client Project No:	225382.02	Sample Matrix:	Soil/Solid	Collect Time:	11:18
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.				

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260D

Aliquot ID: A09406-010A Matrix: Soil/Solid
Description: HA-21 (0.5-1)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init
10. m&p-Xylene	U		µg/kg	100	1.0	06/29/22	VP22F29A	06/29/22 18:57	VP22F29A	BRC
11. o-Xylene	U		µg/kg	50	1.0	06/29/22	VP22F29A	06/29/22 18:57	VP22F29A	BRC
‡ 12. Xylenes	U		µg/kg	150	1.0	06/29/22	VP22F29A	06/29/22 18:57	VP22F29A	BRC

Polynuclear Aromatic Hydrocarbons (PNAs)
Method: EPA 3546/EPA 8270E

Aliquot ID: A09406-010 Matrix: Soil/Solid
Description: HA-21 (0.5-1)

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init
1. Acenaphthene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01H	07/05/22 14:30	SN22G05B	ALS
2. Acenaphthylene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01H	07/05/22 14:30	SN22G05B	ALS
3. Anthracene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01H	07/05/22 14:30	SN22G05B	ALS
4. Benzo(a)anthracene (SIM)	340		µg/kg	330	10	07/03/22	PS22G01H	07/05/22 14:30	SN22G05B	ALS
5. Benzo(a)pyrene (SIM)	390		µg/kg	330	10	07/03/22	PS22G01H	07/05/22 14:30	SN22G05B	ALS
6. Benzo(b)fluoranthene (SIM)	610		µg/kg	330	10	07/03/22	PS22G01H	07/05/22 14:30	SN22G05B	ALS
7. Benzo(ghi)perylene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01H	07/05/22 14:30	SN22G05B	ALS
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01H	07/05/22 14:30	SN22G05B	ALS
9. Chrysene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01H	07/05/22 14:30	SN22G05B	ALS
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01H	07/05/22 14:30	SN22G05B	ALS
11. Fluoranthene (SIM)	580		µg/kg	330	10	07/03/22	PS22G01H	07/05/22 14:30	SN22G05B	ALS
12. Fluorene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01H	07/05/22 14:30	SN22G05B	ALS
13. Indeno(1,2,3-cd)pyrene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01H	07/05/22 14:30	SN22G05B	ALS
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01H	07/05/22 14:30	SN22G05B	ALS
15. Naphthalene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01H	07/05/22 14:30	SN22G05B	ALS
16. Phenanthrene (SIM)	U		µg/kg	330	10	07/03/22	PS22G01H	07/05/22 14:30	SN22G05B	ALS
17. Pyrene (SIM)	600		µg/kg	330	10	07/03/22	PS22G01H	07/05/22 14:30	SN22G05B	ALS

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Definitions/ Qualifiers:

- A:** Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QC limits

Exception Summary:

Analysis Locations:

All analyses performed in Holt.



Accreditation Number(s):

T104704518-19-8 (TX)

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email: lab@bertec.us

Fax: 231 775 8584

Fax: 810 220 3311

PAGE 1 of 1

Client Name: BLDI, Inc.						PARAMETERS								Matrix Code				Deliverables			
Contact Person: Renee Perwitz														S Soil A Air O Oil P Wipe				GW Ground Water SW Surface Water WW Waste Water X Other: Specify		Level 2 Level 3 Level 4 EDD	
Project Name/ Number: Lowell Soil Pile / 0275380.02																					
Email distribution list: renee.p, juliab, devonb@blidi.com																					
Quote#																					
Purchase Order#																					
Date	Time	Sample #	Client Sample Descriptor			MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	unleaded gas	PMTs	ML 10 metals	HOLD SAMPLE	Remarks:									
6/27/22	904		HA-12 (8-8.5)			S	2	X	X	X											
	921		HA-13 (7.5-8)																		
	940		HA-14 (8-8.5)																		
	951		HA-15 (6.5-7)																		
	1006		HA-16 (5.5-6)																		
	1023		HA-17 (4-4.5)																		
	1031		HA-18 (3.5-4)																		
	1042		HA-19 (2.5-3)																		
	1107		HA-20 (0.5-1)																		
6/27/22	1118		HA-21 (0.5-1)																		
Comments:																					
Sampled/Relinquished By: [Signature]						Date/ Time 6-27-22 1400				Received By: [Signature]											
Relinquished By: [Signature]						Date/ Time 6-27-22 1552				Received By: [Signature]											
Relinquished By:						Date/ Time				Received By Laboratory:											
Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY										LAB USE ONLY											
____ 1 bus. day ____ 2 bus. days ____ 3 bus. days ____ 4 bus. days										Fibertec project number: A09406											
X ____ 5-7 bus. days (standard) Other (specify time/date requirement): _____										Temperature upon receipt at Lab: 4.7°C											
Please see back for terms and conditions																					



LOWELL CITY COUNCIL

MEMORANDUM

DATE: September 1, 2022

TO: Mayor DeVore and Lowell City Council

FROM: Michael T. Burns, City Manager *MB*

RE: 115 Riverside

With the inability to garner four votes for the sale of 115 Riverside Drive, the city will not be selling the building to Copperrock Construction for their proposed development. City Administration needs direction on what you would like to do next.

I see the following as potential options for you:

1. Select another applicant who submitted a proposal to move forward. The Council would need Administration to prepare a new resolution to sit for twenty days before you can take action. If this was selected this evening, council action to sell the property could not occur until the October 3rd City Council meeting.
2. Have the remaining applicants resubmit proposals.
3. Reinstitute another RFP process.
4. Take no action on this matter.

If you were to take no action, we could leave the building as is and let it continue to deteriorate. However, this would be continued liability to the City and Lowell Light and Power if this occurred. We probably should consider demolishing the building. If we wish to consider this option, we may want to consider communicating with Lowell Light and Power and or the Downtown Development Authority regarding this option.

Further discussion and direction will be needed on this.



LOWELL CITY COUNCIL

MEMORANDUM

DATE: September 1, 2022

TO: Mayor DeVore and Lowell City Council

FROM: Michael T. Burns, City Manager *mb*

RE: Gee Drive MDOT Small Urban Contract

The City of Lowell is receiving funding through the MDOT Surface Transportation Program Small Urban Funds program for resurfacing of the Gee Drive. We have the opportunity to receive \$375,000 to put towards the project work. The work on this project must follow MDOT procedures for design, bidding, construction oversight, and project payment. In order to access the MDOT Small Urban Funds the City needs to approve and sign the standard agreement contract with MDOT.

MDOT also requires the city to authorize an official to sign the document, via a certified resolution.

Recommended Motion: That the Lowell City Council adopt Resolution 25-22, approving the MDOT agreement for the Gee Drive resurfacing project, and authorizes Mr. Michael Burns, City Manager, to act as agent on behalf of the City of Lowell to sign the contract documents with MDOT, Contract #22-5395.

RESOLUTION 25-22

Councilmember _____ offered the following resolution and moved for its adoption:

Be it resolved that

CONTRACT No. 22-5395, Control Section STUL 41000, Job Number 214385CON

by and between the

MICHIGAN DEPARTMENT OF TRANSPORTATION

and the

City of Lowell

is hereby accepted.

The following Official(s) is/are authorized to sign the said contract:

Michael Burns, City Manager

Supported by Councilmember _____

ADOPTED: AYES: _____
NAYES: _____
ABSENT: _____

I hereby certify that the foregoing is a true and correct copy of a resolution made and adopted at

a regular meeting of the Lowell City Council Meeting on the

6th DAY of September

Signed _____
Sue Ullery
City Clerk

STP

DA

Control Section	STUL 41000
Job Number	214385CON
Project	22A0829
CFDA No.	20.205 (Highway Research Planning & Construction)
Contract No.	22-5395

PART I

THIS CONTRACT, consisting of PART I and PART II (Standard Agreement Provisions), is made by and between the MICHIGAN DEPARTMENT OF TRANSPORTATION, hereinafter referred to as the "DEPARTMENT"; and the CITY OF LOWELL, a Michigan municipal corporation, hereinafter referred to as the "REQUESTING PARTY"; for the purpose of fixing the rights and obligations of the parties in agreeing to the following improvements, in LOWELL, Michigan, hereinafter referred to as the "PROJECT" and estimated in detail on EXHIBIT "I", dated August 17, 2022, attached hereto and made a part hereof:

Hot mix asphalt cold milling and resurfacing along Gee Drive from Alden Nash Avenue to Foreman Street, including pavement interlayer and permanent pavement markings; and all together with necessary related work.

WITNESSETH:

WHEREAS, pursuant to Federal law, monies have been provided for the performance of certain improvements on public roads; and

WHEREAS, the reference "FHWA" in PART I and PART II refers to the United States Department of Transportation, Federal Highway Administration; and

WHEREAS, the PROJECT, or portions of the PROJECT, at the request of the REQUESTING PARTY, are being programmed with the FHWA, for implementation with the use of Federal Funds under the following Federal program(s) or funding:

SURFACE TRANSPORTATION PROGRAM

WHEREAS, the parties hereto have reached an understanding with each other regarding the performance of the PROJECT work and desire to set forth this understanding in the form of a written contract.

NOW, THEREFORE, in consideration of the premises and of the mutual undertakings of the parties and in conformity with applicable law, it is agreed:

1. The parties hereto shall undertake and complete the PROJECT in accordance with the terms of this contract.

2. The term "PROJECT COST", as herein used, is hereby defined as the cost of the physical construction necessary for the completion of the PROJECT, including any other costs incurred by the DEPARTMENT as a result of this contract, except construction engineering and inspection.

No charges will be made by the DEPARTMENT to the PROJECT for any inspection work or construction engineering.

The costs incurred by the REQUESTING PARTY for preliminary engineering, construction engineering, construction materials testing, inspection, and right-of-way are excluded from the PROJECT COST as defined by this contract.

The Michigan Department of Environment, Great Lakes, and Energy has informed the DEPARTMENT that it adopted new administrative rules (R 325.10101, et. seq.) which prohibit any governmental agency from connecting and/or reconnecting lead and/or galvanized service lines to existing and/or new water main. Questions regarding these administrative rules should be directed to the Michigan Department of Environment, Great Lakes, and Energy. The cost associated with replacement of any lead and/or galvanized service lines, including but not limited to contractor claims, will be the sole responsibility of the REQUESTING PARTY.

3. The DEPARTMENT is authorized by the REQUESTING PARTY to administer on behalf of the REQUESTING PARTY all phases of the PROJECT, including advertising and awarding the construction contract for the PROJECT or portions of the PROJECT. Such administration shall be in accordance with PART II, Section II of this contract.

Any items of the PROJECT COST incurred by the DEPARTMENT may be charged to the PROJECT.

4. The REQUESTING PARTY, at no cost to the PROJECT or to the DEPARTMENT, shall:

- A. Design or cause to be designed the plans for the PROJECT.
- B. Appoint a project engineer who shall be in responsible charge of the PROJECT and ensure that the plans and specifications are followed.
- C. Perform or cause to be performed the construction engineering, construction materials testing, and inspection services necessary for the completion of the PROJECT.

The REQUESTING PARTY will furnish the DEPARTMENT proposed timing sequences for trunkline signals that, if any, are being made part of the improvement. No timing adjustments shall be made by the REQUESTING PARTY at any trunkline intersection, without prior issuances by the DEPARTMENT of Standard Traffic Signal Timing Permits.

5. The PROJECT COST shall be met in part by contributions by the Federal Government. Federal Surface Transportation Funds shall be applied to the eligible items of the PROJECT COST up to the lesser of: (1) \$375,000, or (2) an amount such that 81.85 percent, the normal Federal participation ratio for such funds, is not exceeded at the time of the award of the construction contract. The balance of the PROJECT COST, after deduction of Federal Funds, shall be charged to and paid by the REQUESTING PARTY in the manner and at the times hereinafter set forth.

Any items of PROJECT COST not reimbursed by Federal Funds shall be the sole responsibility of the REQUESTING PARTY.

6. No working capital deposit will be required for this PROJECT.

In order to fulfill the obligations assumed by the REQUESTING PARTY under the provisions of this contract, the REQUESTING PARTY shall make prompt payments of its share of the PROJECT COST upon receipt of progress billings from the DEPARTMENT as herein provided. All payments will be made within 30 days of receipt of billings from the DEPARTMENT. Billings to the REQUESTING PARTY will be based upon the REQUESTING PARTY'S share of the actual costs incurred less Federal Funds earned as the PROJECT progresses.

7. At such time as traffic volumes and safety requirements warrant, the REQUESTING PARTY will cause to be enacted and enforced such ordinances as may be necessary to prohibit parking in the traveled roadway throughout the limits of the PROJECT.

8. The performance of the entire PROJECT under this contract, whether Federally funded or not, will be subject to the provisions and requirements of PART II that are applicable to a Federally funded project.

In the event of any discrepancies between PART I and PART II of this contract, the provisions of PART I shall prevail.

Buy America Requirements (23 CFR 635.410) shall apply to the PROJECT and will be adhered to, as applicable, by the parties hereto.

9. The REQUESTING PARTY certifies that it is not aware if and has no reason to believe that the property on which the work is to be performed under this agreement is a facility, as defined by the Michigan Natural Resources and Environmental Protection Act [(NREPA), PA 451, 1994, as amended 2012]; MCL 324.20101(1)(s). The REQUESTING PARTY also certifies that it is not a liable party pursuant to either Part 201 or Part 213 of NREPA, MCL 324.20126 et seq. and MCL 324.21323a et seq. The REQUESTING PARTY is a local unit of government that has acquired or will acquire property for the use of either a transportation corridor or public right-of-way and was not responsible for any activities causing a release or threat of release of any hazardous materials at or on the property. The REQUESTING PARTY

is not a person who is liable for response activity costs, pursuant to MCL 324.20101 (vv) and (ww).

10. If, subsequent to execution of this contract, previously unknown hazardous substances are discovered within the PROJECT limits, which require environmental remediation pursuant to either state or federal law, the REQUESTING PARTY, in addition to reporting that fact to the Michigan Department of Environment, Great Lakes, and Energy, shall immediately notify the DEPARTMENT, both orally and in writing of such discovery. The DEPARTMENT shall consult with the REQUESTING PARTY to determine if it is willing to pay for the cost of remediation and, with the FHWA, to determine the eligibility, for reimbursement, of the remediation costs. The REQUESTING PARTY shall be charged for and shall pay all costs associated with such remediation, including all delay costs of the contractor for the PROJECT, in the event that remediation and delay costs are not deemed eligible by the FHWA. If the REQUESTING PARTY refuses to participate in the cost of remediation, the DEPARTMENT shall terminate the PROJECT. The parties agree that any costs or damages that the DEPARTMENT incurs as a result of such termination shall be considered a PROJECT COST.

11. If federal and/or state funds administered by the DEPARTMENT are used to pay the cost of remediating any hazardous substances discovered after the execution of this contract and if there is a reasonable likelihood of recovery, the REQUESTING PARTY, in cooperation with the Michigan Department of Environment, Great Lakes, and Energy and the DEPARTMENT, shall make a diligent effort to recover such costs from all other possible entities. If recovery is made, the DEPARTMENT shall be reimbursed from such recovery for the proportionate share of the amount paid by the FHWA and/or the DEPARTMENT and the DEPARTMENT shall credit such sums to the appropriate funding source.

12. The DEPARTMENT'S sole reason for entering into this contract is to enable the REQUESTING PARTY to obtain and use funds provided by the Federal Highway Administration pursuant to Title 23 of the United States Code.

Any and all approvals of, reviews of, and recommendations regarding contracts, agreements, permits, plans, specifications, or documents, of any nature, or any inspections of work by the DEPARTMENT or its agents pursuant to the terms of this contract are done to assist the REQUESTING PARTY in meeting program guidelines in order to qualify for available funds. Such approvals, reviews, inspections and recommendations by the DEPARTMENT or its agents shall not relieve the REQUESTING PARTY and the local agencies, as applicable, of their ultimate control and shall not be construed as a warranty of their propriety or that the DEPARTMENT or its agents is assuming any liability, control or jurisdiction.

The providing of recommendations or advice by the DEPARTMENT or its agents does not relieve the REQUESTING PARTY and the local agencies, as applicable of their exclusive jurisdiction of the highway and responsibility under MCL 691.1402 et seq., as amended.

When providing approvals, reviews and recommendations under this contract, the DEPARTMENT or its agents is performing a governmental function, as that term is defined in MCL 691.1401 et seq., as amended, which is incidental to the completion of the PROJECT.

Upon completion of the PROJECT, the REQUESTING PARTY shall accept the facilities constructed as built to specifications within the contract documents. It is understood that the REQUESTING PARTY shall own the facilities and shall operate and maintain the facilities in accordance with all applicable Federal and State laws and regulations, including, but not limited to, Title II of the Americans with Disabilities Act (ADA), 42 USC 12131 et seq., and its associated regulations and standards, and DEPARTMENT Road and Bridge Standard Plans and the Standard Specifications for Construction.

13. The DEPARTMENT, by executing this contract, and rendering services pursuant to this contract, has not and does not assume jurisdiction of the highway, described as the PROJECT for purposes of MCL 691.1402 et seq., as amended. Exclusive jurisdiction of such highway for the purposes of MCL 691.1402 et seq., as amended, rests with the REQUESTING PARTY and other local agencies having respective jurisdiction.

14. The REQUESTING PARTY shall approve all of the plans and specifications to be used on the PROJECT and shall be deemed to have approved all changes to the plans and specifications when put into effect. It is agreed that ultimate responsibility and control over the PROJECT rests with the REQUESTING PARTY and local agencies, as applicable.

15. The REQUESTING PARTY agrees that the costs reported to the DEPARTMENT for this contract will represent only those items that are properly chargeable in accordance with this contract. The REQUESTING PARTY also certifies that it has read the contract terms and has made itself aware of the applicable laws, regulations, and terms of this contract that apply to the reporting of costs incurred under the terms of this contract.

16. Each party to this contract will remain responsible for any and all claims arising out of its own acts and/or omissions during the performance of the contract, as provided by this contract or by law. In addition, this is not intended to increase or decrease either party's liability for or immunity from tort claims. This contract is also not intended to nor will it be interpreted as giving either party a right of indemnification, either by contract or by law, for claims arising out of the performance of this contract.

17. The parties shall promptly provide comprehensive assistance and cooperation in defending and resolving any claims brought against the DEPARTMENT by the contractor, vendors or suppliers as a result of the DEPARTMENT'S award of the construction contract for the PROJECT. Costs incurred by the DEPARTMENT in defending or resolving such claims shall be considered PROJECT COSTS.

18. The DEPARTMENT shall require the contractor who is awarded the contract for the construction of the PROJECT to provide insurance in the amounts specified and in accordance with the DEPARTMENT'S current Standard Specifications for Construction and to:

- A. Maintain bodily injury and property damage insurance for the duration of the PROJECT.

- B. Provide owner's protective liability insurance naming as insureds the State of Michigan, the Michigan State Transportation Commission, the DEPARTMENT and its officials, agents and employees, the REQUESTING PARTY and any other county, county road commission, or municipality in whose jurisdiction the PROJECT is located, and their employees, for the duration of the PROJECT and to provide, upon request, copies of certificates of insurance to the insureds. It is understood that the DEPARTMENT does not assume jurisdiction of the highway described as the PROJECT as a result of being named as an insured on the owner's protective liability insurance policy.
- C. Comply with the requirements of notice of cancellation and reduction of insurance set forth in the current standard specifications for construction and to provide, upon request, copies of notices and reports prepared to those insured.

19. This contract shall become binding on the parties hereto and of full force and effect upon the signing thereof by the duly authorized officials for the parties hereto and upon the adoption of the necessary resolutions approving said contract and authorizing the signatures thereto of the respective officials of the REQUESTING PARTY, a certified copy of which resolution shall be attached to this contract.

IN WITNESS WHEREOF, the parties hereto have caused this contract to be executed as written below.

CITY OF LOWELL

MICHIGAN DEPARTMENT
OF TRANSPORTATION

Michael Burns
Michael Burns
Aug 31 2022 8:56 AM

By _____
Title: _____

By _____
Department Director MDOT

By _____
Title: _____



August 17, 2022

EXHIBIT I

CONTROL SECTION	STUL 41000
JOB NUMBER	214385CON
PROJECT	22A0829

ESTIMATED COST

CONTRACTED WORK

Estimated Cost	\$362,000
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COST PARTICIPATION

GRAND TOTAL ESTIMATED COST	\$362,000
Less Federal Funds*	<u>\$296,297</u>
BALANCE (REQUESTING PARTY'S SHARE)	\$ 65,703

*Federal Funds for the PROJECT are limited to an amount as described in Section 5.

NO DEPOSIT

DOT

TYPE B
BUREAU OF HIGHWAYS
03-15-93

PART II

STANDARD AGREEMENT PROVISIONS

SECTION I COMPLIANCE WITH REGULATIONS AND DIRECTIVES

SECTION II PROJECT ADMINISTRATION AND SUPERVISION

SECTION III ACCOUNTING AND BILLING

SECTION IV MAINTENANCE AND OPERATION

SECTION V SPECIAL PROGRAM AND PROJECT CONDITIONS

SECTION I

COMPLIANCE WITH REGULATIONS AND DIRECTIVES

- A. To qualify for eligible cost, all work shall be documented in accordance with the requirements and procedures of the DEPARTMENT.
- B. All work on projects for which reimbursement with Federal funds is requested shall be performed in accordance with the requirements and guidelines set forth in the following Directives of the Federal-Aid Policy Guide (FAPG) of the FHWA, as applicable, and as referenced in pertinent sections of Title 23 and Title 49 of the Code of Federal Regulations (CFR), and all supplements and amendments thereto.
 - 1. Engineering
 - a. FAPG (6012.1): Preliminary Engineering
 - b. FAPG (23 CFR 172): Administration of Engineering and Design Related Service Contracts
 - c. FAPG (23 CFR 635A): Contract Procedures
 - d. FAPG (49 CFR 18.22): Uniform Administrative Requirements for Grants and Cooperative Agreements to State and Local Governments--Allowable Costs
 - 2. Construction
 - a. FAPG (23 CFR 140E): Administrative Settlement Costs-Contract Claims
 - b. FAPG (23 CFR 140B): Construction Engineering Costs
 - c. FAPG (23 CFR 17): Recordkeeping and Retention Requirements for Federal-Aid Highway Records of State Highway Agencies
 - d. FAPG (23 CFR 635A): Contract Procedures
 - e. FAPG (23 CFR 635B): Force Account Construction
 - f. FAPG (23 CFR 645A): Utility Relocations, Adjustments and Reimbursement

- g. FAPG (23 CFR 645B): Accommodation of Utilities (PPM 30-4.1)
 - h. FAPG (23 CFR 655F): Traffic Control Devices on Federal-Aid and other Streets and Highways
 - i. FAPG (49 CFR 18.22): Uniform Administrative Requirements for Grants and Cooperative Agreements to State and Local Governments—Allowable Costs
3. Modification Or Construction Of Railroad Facilities
- a. FAPG (23 CFR 140I): Reimbursement for Railroad Work
 - b. FAPG (23 CFR 646B): Railroad Highway Projects
- C. In conformance with FAPG (23 CFR 630C) Project Agreements, the political subdivisions party to this contract, on those Federally funded projects which exceed a total cost of \$100,000.00 stipulate the following with respect to their specific jurisdictions:
- 1. That any facility to be utilized in performance under or to benefit from this contract is not listed on the Environmental Protection Agency (EPA) List of Violating Facilities issued pursuant to the requirements of the Federal Clean Air Act, as amended, and the Federal Water Pollution Control Act, as amended.
 - 2. That they each agree to comply with all of the requirements of Section 114 of the Federal Clean Air Act and Section 308 of the Federal Water Pollution Control Act, and all regulations and guidelines issued thereunder.
 - 3. That as a condition of Federal aid pursuant to this contract they shall notify the DEPARTMENT of the receipt of any advice indicating that a facility to be utilized in performance under or to benefit from this contract is under consideration to be listed on the EPA List of Violating Facilities.
- D. Ensure that the PROJECT is constructed in accordance with and incorporates all committed environmental impact mitigation measures listed in approved environmental documents unless modified or deleted by approval of the FHWA.
- E. All the requirements, guidelines, conditions and restrictions noted in all other pertinent Directives and Instructional Memoranda of the FHWA will apply to this contract and will be adhered to, as applicable, by the parties hereto.

SECTION II

PROJECT ADMINISTRATION AND SUPERVISION

- A. The DEPARTMENT shall provide such administrative guidance as it determines is required by the PROJECT in order to facilitate the obtaining of available federal and/or state funds.
- B. The DEPARTMENT will advertise and award all contracted portions of the PROJECT work. Prior to advertising of the PROJECT for receipt of bids, the REQUESTING PARTY may delete any portion or all of the PROJECT work. After receipt of bids for the PROJECT, the REQUESTING PARTY shall have the right to reject the amount bid for the PROJECT prior to the award of the contract for the PROJECT only if such amount exceeds by ten percent (10%) the final engineer's estimate therefor. If such rejection of the bids is not received in writing within two (2) weeks after letting, the DEPARTMENT will assume concurrence. The DEPARTMENT may, upon request, readvertise the PROJECT. Should the REQUESTING PARTY so request in writing within the aforesaid two (2) week period after letting, the PROJECT will be cancelled and the DEPARTMENT will refund the unused balance of the deposit less all costs incurred by the DEPARTMENT.
- C. The DEPARTMENT will perform such inspection services on PROJECT work performed by the REQUESTING PARTY with its own forces as is required to ensure compliance with the approved plans & specifications.
- D. On those projects funded with Federal monies, the DEPARTMENT shall as may be required secure from the FHWA approval of plans and specifications, and such cost estimates for FHWA participation in the PROJECT COST.
- E. All work in connection with the PROJECT shall be performed in conformance with the Michigan Department of Transportation Standard Specifications for Construction, and the supplemental specifications, Special Provisions and plans pertaining to the PROJECT and all materials furnished and used in the construction of the PROJECT shall conform to the aforesaid specifications. No extra work shall be performed nor changes in plans and specifications made until said work or changes are approved by the project engineer and authorized by the DEPARTMENT.

- F. Should it be necessary or desirable that portions of the work covered by this contract be accomplished by a consulting firm, a railway company, or governmental agency, firm, person, or corporation, under a subcontract with the REQUESTING PARTY at PROJECT expense, such subcontracted arrangements will be covered by formal written agreement between the REQUESTING PARTY and that party.

This formal written agreement shall: include a reference to the specific prime contract to which it pertains; include provisions which clearly set forth the maximum reimbursable and the basis of payment; provide for the maintenance of accounting records in accordance with generally accepted accounting principles, which clearly document the actual cost of the services provided; provide that costs eligible for reimbursement shall be in accordance with clearly defined cost criteria such as 49 CFR Part 18, 48 CFR Part 31, 23 CFR Part 140, OMB Circular A-87, etc. as applicable; provide for access to the department or its representatives to inspect and audit all data and records related to the agreement for a minimum of three years after the department's final payment to the local unit.

All such agreements will be submitted for approval by the DEPARTMENT and, if applicable, by the FHWA prior to execution thereof, except for agreements for amounts less than \$100,000 for preliminary engineering and testing services executed under and in accordance with the provisions of the "Small Purchase Procedures" FAPG (23 CFR 172), which do not require prior approval of the DEPARTMENT or the FHWA.

Any such approval by the DEPARTMENT shall in no way be construed as a warranty of the subcontractor's qualifications, financial integrity, or ability to perform the work being subcontracted.

- G. The REQUESTING PARTY, at no cost to the PROJECT or the DEPARTMENT, shall make such arrangements with railway companies, utilities, etc., as may be necessary for the performance of work required for the PROJECT but for which Federal or other reimbursement will not be requested.
- H. The REQUESTING PARTY, at no cost to the PROJECT, or the DEPARTMENT, shall secure, as necessary, all agreements and approvals of the PROJECT with railway companies, the Railroad Safety & Tariffs Division of the DEPARTMENT and other concerned governmental agencies other than the FHWA, and will forward same to the DEPARTMENT for such reviews and approvals as may be required.
- I. No PROJECT work for which reimbursement will be requested by the REQUESTING PARTY is to be subcontracted or performed until the DEPARTMENT gives written notification that such work may commence.

- J. The REQUESTING PARTY shall be responsible for the payment of all costs and expenses incurred in the performance of the work it agrees to undertake and perform.
- K. The REQUESTING PARTY shall pay directly to the party performing the work all billings for the services performed on the PROJECT which are authorized by or through the REQUESTING PARTY.
- L. The REQUESTING PARTY shall submit to the DEPARTMENT all paid billings for which reimbursement is desired in accordance with DEPARTMENT procedures.
- M. All work by a consulting firm will be performed in compliance with the applicable provisions of 1980 PA 299, Subsection 2001, MCL 339.2001; MSA 18.425(2001), as well as in accordance with the provisions of all previously cited Directives of the FHWA.
- N. The project engineer shall be subject to such administrative guidance as may be deemed necessary to ensure compliance with program requirement and, in those instances where a consultant firm is retained to provide engineering and inspection services, the personnel performing those services shall be subject to the same conditions.
- O. The DEPARTMENT, in administering the PROJECT in accordance with applicable Federal and State requirements and regulations, neither assumes nor becomes liable for any obligations undertaken or arising between the REQUESTING PARTY and any other party with respect to the PROJECT.
- P. In the event it is determined by the DEPARTMENT that there will be either insufficient Federal funds or insufficient time to properly administer such funds for the entire PROJECT or portions thereof, the DEPARTMENT, prior to advertising or issuing authorization for work performance, may cancel the PROJECT, or any portion thereof, and upon written notice to the parties this contract shall be void and of no effect with respect to that cancelled portion of the PROJECT. Any PROJECT deposits previously made by the parties on the cancelled portions of the PROJECT will be promptly refunded.
- Q. Those projects funded with Federal monies will be subject to inspection at all times by the DEPARTMENT and the FHWA.

SECTION III
ACCOUNTING AND BILLING

A. Procedures for billing for work undertaken by the REQUESTING PARTY:

1. The REQUESTING PARTY shall establish and maintain accurate records, in accordance with generally accepted accounting principles, of all expenses incurred for which payment is sought or made under this contract, said records to be hereinafter referred to as the "RECORDS". Separate accounts shall be established and maintained for all costs incurred under this contract.

The REQUESTING PARTY shall maintain the RECORDS for at least three (3) years from the date of final payment of Federal Aid made by the DEPARTMENT under this contract. In the event of a dispute with regard to the allowable expenses or any other issue under this contract, the REQUESTING PARTY shall thereafter continue to maintain the RECORDS at least until that dispute has been finally decided and the time for all available challenges or appeals of that decision has expired.

The DEPARTMENT, or its representative, may inspect, copy, or audit the RECORDS at any reasonable time after giving reasonable notice.

If any part of the work is subcontracted, the REQUESTING PARTY shall assure compliance with the above for all subcontracted work.

In the event that an audit performed by or on behalf of the DEPARTMENT indicates an adjustment to the costs reported under this contract, or questions the allowability of an item of expense, the DEPARTMENT shall promptly submit to the REQUESTING PARTY, a Notice of Audit Results and a copy of the audit report which may supplement or modify any tentative findings verbally communicated to the REQUESTING PARTY at the completion of an audit.

Within sixty (60) days after the date of the Notice of Audit Results, the REQUESTING PARTY shall: (a) respond in writing to the responsible Bureau or the DEPARTMENT indicating whether or not it concurs with the audit report, (b) clearly explain the nature and basis for any disagreement as to a disallowed item of expense and, (c) submit to the DEPARTMENT a written explanation as to any questioned or no opinion expressed item of expense, hereinafter referred to as the "RESPONSE". The RESPONSE shall be clearly stated and provide any supporting documentation necessary to resolve any disagreement or questioned or no opinion expressed item of expense. Where the documentation is voluminous, the REQUESTING PARTY may supply appropriate excerpts and make alternate

arrangements to conveniently and reasonably make that documentation available for review by the DEPARTMENT. The RESPONSE shall refer to and apply the language of the contract. The REQUESTING PARTY agrees that failure to submit a RESPONSE within the sixty (60) day period constitutes agreement with any disallowance of an item of expense and authorizes the DEPARTMENT to finally disallow any items of questioned or no opinion expressed cost.

The DEPARTMENT shall make its decision with regard to any Notice of Audit Results and RESPONSE within one hundred twenty (120) days after the date of the Notice of Audit Results. If the DEPARTMENT determines that an overpayment has been made to the REQUESTING PARTY, the REQUESTING PARTY shall repay that amount to the DEPARTMENT or reach agreement with the DEPARTMENT on a repayment schedule within thirty (30) days after the date of an invoice from the DEPARTMENT. If the REQUESTING PARTY fails to repay the overpayment or reach agreement with the DEPARTMENT on a repayment schedule within the thirty (30) day period, the REQUESTING PARTY agrees that the DEPARTMENT shall deduct all or a portion of the overpayment from any funds then or thereafter payable by the DEPARTMENT to the REQUESTING PARTY under this contract or any other agreement, or payable to the REQUESTING PARTY under the terms of 1951 PA 51, as applicable. Interest will be assessed on any partial payments or repayment schedules based on the unpaid balance at the end of each month until the balance is paid in full. The assessment of interest will begin thirty (30) days from the date of the invoice. The rate of interest will be based on the Michigan Department of Treasury common cash funds interest earnings. The rate of interest will be reviewed annually by the DEPARTMENT and adjusted as necessary based on the Michigan Department of Treasury common cash funds interest earnings. The REQUESTING PARTY expressly consents to this withholding or offsetting of funds under those circumstances, reserving the right to file a lawsuit in the Court of Claims to contest the DEPARTMENT'S decision only as to any item of expense the disallowance of which was disputed by the REQUESTING PARTY in a timely filed RESPONSE.

The REQUESTING PARTY shall comply with the Single Audit Act of 1984, as amended, including, but not limited to, the Single Audit Amendments of 1996 (31 USC 7501-7507).

The REQUESTING PARTY shall adhere to the following requirements associated with audits of accounts and records:

- a. Agencies expending a total of \$500,000 or more in federal funds, from one or more funding sources in its fiscal year, shall comply with the requirements of the federal Office of Management and Budget (OMB) Circular A-133, as revised or amended.

The agency shall submit two copies of:

The Reporting Package
The Data Collection Form
The management letter to the agency, if one issued by the audit firm

The OMB Circular A-133 audit must be submitted to the address below in accordance with the time frame established in the circular, as revised or amended.

b. Agencies expending less than \$500,000 in federal funds must submit a letter to the Department advising that a circular audit was not required. The letter shall indicate the applicable fiscal year, the amount of federal funds spent, the name(s) of the Department federal programs, and the CFDA grant number(s). This information must also be submitted to the address below.

c. Address: Michigan Department of Education
Accounting Service Center
Hannah Building
608 Allegan Street
Lansing, MI 48909

d. Agencies must also comply with applicable State laws and regulations relative to audit requirements.

e. Agencies shall not charge audit costs to Department's federal programs which are not in accordance with the OMB Circular A-133 requirements.

f. All agencies are subject to the federally required monitoring activities, which may include limited scope reviews and other on-site monitoring.

2. Agreed Unit Prices Work - All billings for work undertaken by the REQUESTING PARTY on an agreed unit price basis will be submitted in accordance with the Michigan Department of Transportation Standard Specifications for Construction and pertinent FAPG Directives and Guidelines of the FHWA.

3. Force Account Work and Subcontracted Work - All billings submitted to the DEPARTMENT for Federal reimbursement for items of work performed on a force account basis or by any subcontract with a consulting firm, railway company, governmental agency or other party, under the terms of this contract, shall be prepared in accordance with the provisions of the pertinent FHPM Directives and the procedures of the DEPARTMENT. Progress billings may be submitted monthly during the time work is being performed provided, however, that no bill of a lesser amount than \$1,000.00 shall be submitted unless it is a final

or end of fiscal year billing. All billings shall be labeled either "Progress Bill Number _____", or "Final Billing".

4. Final billing under this contract shall be submitted in a timely manner but not later than six months after completion of the work. Billings for work submitted later than six months after completion of the work will not be paid.
5. Upon receipt of billings for reimbursement for work undertaken by the REQUESTING PARTY on projects funded with Federal monies, the DEPARTMENT will act as billing agent for the REQUESTING PARTY, consolidating said billings with those for its own force account work and presenting these consolidated billings to the FHWA for payment. Upon receipt of reimbursement from the FHWA, the DEPARTMENT will promptly forward to the REQUESTING PARTY its share of said reimbursement.
6. Upon receipt of billings for reimbursement for work undertaken by the REQUESTING PARTY on projects funded with non-Federal monies, the DEPARTMENT will promptly forward to the REQUESTING PARTY reimbursement of eligible costs.

B. Payment of Contracted and DEPARTMENT Costs:

1. As work on the PROJECT commences, the initial payments for contracted work and/or costs incurred by the DEPARTMENT will be made from the working capital deposit. Receipt of progress payments of Federal funds, and where applicable, State Critical Bridge funds, will be used to replenish the working capital deposit. The REQUESTING PARTY shall make prompt payments of its share of the contracted and/or DEPARTMENT incurred portion of the PROJECT COST upon receipt of progress billings from the DEPARTMENT. Progress billings will be based upon the REQUESTING PARTY'S share of the actual costs incurred as work on the PROJECT progresses and will be submitted, as required, until it is determined by the DEPARTMENT that there is sufficient available working capital to meet the remaining anticipated PROJECT COSTS. All progress payments will be made within thirty (30) days of receipt of billings. No monthly billing of a lesser amount than \$1,000.00 will be made unless it is a final or end of fiscal year billing. Should the DEPARTMENT determine that the available working capital exceeds the remaining anticipated PROJECT COSTS, the DEPARTMENT may reimburse the REQUESTING PARTY such excess. Upon completion of the PROJECT, payment of all PROJECT COSTS, receipt of all applicable monies from the FHWA, and completion of necessary audits, the REQUESTING PARTY will be reimbursed the balance of its deposit.

2. In the event that the bid, plus contingencies, for the contracted, and/or the DEPARTMENT incurred portion of the PROJECT work exceeds the estimated cost therefor as established by this contract, the REQUESTING PARTY may be advised and billed for the additional amount of its share.

C. General Conditions:

1. The DEPARTMENT, in accordance with its procedures in existence and covering the time period involved, shall make payment for interest earned on the balance of working capital deposits for all projects on account with the DEPARTMENT. The REQUESTING PARTY in accordance with DEPARTMENT procedures in existence and covering the time period involved, shall make payment for interest owed on any deficit balance of working capital deposits for all projects on account with the DEPARTMENT. This payment or billing is processed on an annual basis corresponding to the State of Michigan fiscal year. Upon receipt of billing for interest incurred, the REQUESTING PARTY promises and shall promptly pay the DEPARTMENT said amount.
2. Pursuant to the authority granted by law, the REQUESTING PARTY hereby irrevocably pledges a sufficient amount of funds received by it from the Michigan Transportation Fund to meet its obligations as specified in PART I and PART II. If the REQUESTING PARTY shall fail to make any of its required payments when due, as specified herein, the DEPARTMENT shall immediately notify the REQUESTING PARTY and the State Treasurer of the State of Michigan or such other state officer or agency having charge and control over disbursement of the Michigan Transportation Fund, pursuant to law, of the fact of such default and the amount thereof, and, if such default is not cured by payment within ten (10) days, said State Treasurer or other state officer or agency is then authorized and directed to withhold from the first of such monies thereafter allocated by law to the REQUESTING PARTY from the Michigan Transportation Fund sufficient monies to remove the default, and to credit the REQUESTING PARTY with payment thereof, and to notify the REQUESTING PARTY in writing of such fact.
3. Upon completion of all work under this contract and final audit by the DEPARTMENT or the FHWA, the REQUESTING PARTY promises to promptly repay the DEPARTMENT for any disallowed items of costs previously disbursed by the DEPARTMENT. The REQUESTING PARTY pledges its future receipts from the Michigan Transportation Fund for repayment of all disallowed items and, upon failure to make repayment for any disallowed items within ninety (90) days of demand made by the DEPARTMENT, the DEPARTMENT is hereby authorized to withhold an equal amount from the REQUESTING PARTY'S share of any future distribution of Michigan Transportation Funds in settlement of said claim.

4. The DEPARTMENT shall maintain and keep accurate records and accounts relative to the cost of the PROJECT and upon completion of the PROJECT, payment of all items of PROJECT COST, receipt of all Federal Aid, if any, and completion of final audit by the DEPARTMENT and if applicable, by the FHWA, shall make final accounting to the REQUESTING PARTY. The final PROJECT accounting will not include interest earned or charged on working capital deposited for the PROJECT which will be accounted for separately at the close of the State of Michigan fiscal year and as set forth in Section C(1).
5. The costs of engineering and other services performed on those projects involving specific program funds and one hundred percent (100%) local funds will be apportioned to the respective portions of that project in the same ratio as the actual direct construction costs unless otherwise specified in PART I.

SECTION IV

MAINTENANCE AND OPERATION

- A. Upon completion of construction of each part of the PROJECT, at no cost to the DEPARTMENT or the PROJECT, each of the parties hereto, within their respective jurisdictions, will make the following provisions for the maintenance and operation of the completed PROJECT:

1. All Projects:

Properly maintain and operate each part of the project, making ample provisions each year for the performance of such maintenance work as may be required, except as qualified in paragraph 2b of this section.

2. Projects Financed in Part with Federal Monies:

- a. Sign and mark each part of the PROJECT, in accordance with the current Michigan Manual of Uniform Traffic control Devices, and will not install, or permit to be installed, any signs, signals or markings not in conformance with the standards approved by the FHWA, pursuant to 23 USC 109(d).

- b. Remove, prior to completion of the PROJECT, all encroachments from the roadway right-of-way within the limits of each part of the PROJECT.

With respect to new or existing utility installations within the right-of-way of Federal Aid projects and pursuant to FAPG (23 CFR 645B): Occupancy of non-limited access right-of-way may be allowed based on consideration for traffic safety and necessary preservation of roadside space and aesthetic quality. Longitudinal occupancy of non-limited access right-of-way by private lines will require a finding of significant economic hardship, the unavailability of practicable alternatives or other extenuating circumstances.

- c. Cause to be enacted, maintained and enforced, ordinances and regulations for proper traffic operations in accordance with the plans of the PROJECT.

- d. Make no changes to ordinances or regulations enacted, or traffic controls installed in conjunction with the PROJECT work without prior review by the DEPARTMENT and approval of the FHWA, if required.

- B. On projects for the removal of roadside obstacles, the parties, upon completion of construction of each part of the PROJECT, at no cost to the PROJECT or the DEPARTMENT, will, within their respective jurisdictions, take such action as is necessary to assure that the roadway right-of-way, cleared as the PROJECT, will be maintained free of such obstacles.
- C. On projects for the construction of bikeways, the parties will enact no ordinances or regulations prohibiting the use of bicycles on the facility hereinbefore described as the PROJECT, and will amend any existing restrictive ordinances in this regard so as to allow use of this facility by bicycles. No motorized vehicles shall be permitted on such bikeways or walkways constructed as the PROJECT except those for maintenance purposes.
- D. Failure of the parties hereto to fulfill their respective responsibilities as outlined herein may disqualify that party from future Federal-aid participation in projects on roads or streets for which it has maintenance responsibility. Federal Aid may be withheld until such time as deficiencies in regulations have been corrected, and the improvements constructed as the PROJECT are brought to a satisfactory condition of maintenance.

SECTION V

SPECIAL PROGRAM AND PROJECT CONDITIONS

- A. Those projects for which the REQUESTING PARTY has been reimbursed with Federal monies for the acquisition of right-of-way must be under construction by the close of the twentieth (20th) fiscal year following the fiscal year in which the FHWA and the DEPARTMENT projects agreement covering that work is executed, or the REQUESTING PARTY may be required to repay to the DEPARTMENT, for forwarding to the FHWA, all monies distributed as the FHWA'S contribution to that right-of-way.
- B. Those projects for which the REQUESTING PARTY has been reimbursed with Federal monies for the performance of preliminary engineering must be under construction by the close of the tenth (10th) fiscal year following the fiscal year in which the FHWA and the DEPARTMENT projects agreement covering that work is executed, or the REQUESTING PARTY may be required to repay to the DEPARTMENT, for forwarding to the FHWA, all monies distributed as the FHWA'S contribution to that preliminary engineering.
- C. On those projects funded with Federal monies, the REQUESTING PARTY, at no cost to the PROJECT or the DEPARTMENT, will provide such accident information as is available and such other information as may be required under the program in order to make the proper assessment of the safety benefits derived from the work performed as the PROJECT. The REQUESTING PARTY will cooperate with the DEPARTMENT in the development of reports and such analysis as may be required and will, when requested by the DEPARTMENT, forward to the DEPARTMENT, in such form as is necessary, the required information.
- D. In connection with the performance of PROJECT work under this contract the parties hereto (hereinafter in Appendix "A" referred to as the "contractor") agree to comply with the State of Michigan provisions for "Prohibition of Discrimination in State Contracts", as set forth in Appendix A, attached hereto and made a part hereof. The parties further covenant that they will comply with the Civil Rights Acts of 1964, being P.L. 88-352, 78 Stat. 241, as amended, being Title 42 U.S.C. Sections 1971, 1975a-1975d, and 2000a-2000h-6 and the Regulations of the United States Department of Transportation (49 C.F.R. Part 21) issued pursuant to said Act, including Appendix "B", attached hereto and made a part hereof, and will require similar covenants on the part of any contractor or subcontractor employed in the performance of this contract.
- E. The parties will carry out the applicable requirements of the DEPARTMENT'S Disadvantaged Business Enterprise (DBE) program and 49 CFR, Part 26, including, but not limited to, those requirements set forth in Appendix C.

APPENDIX A
PROHIBITION OF DISCRIMINATION IN STATE CONTRACTS

In connection with the performance of work under this contract; the contractor agrees as follows:

1. In accordance with Public Act 453 of 1976 (Elliott-Larsen Civil Rights Act), the contractor shall not discriminate against an employee or applicant for employment with respect to hire, tenure, treatment, terms, conditions, or privileges of employment or a matter directly or indirectly related to employment because of race, color, religion, national origin, age, sex, height, weight, or marital status. A breach of this covenant will be regarded as a material breach of this contract. Further, in accordance with Public Act 220 of 1976 (Persons with Disabilities Civil Rights Act), as amended by Public Act 478 of 1980, the contractor shall not discriminate against any employee or applicant for employment with respect to hire, tenure, terms, conditions, or privileges of employment or a matter directly or indirectly related to employment because of a disability that is unrelated to the individual's ability to perform the duties of a particular job or position. A breach of the above covenants will be regarded as a material breach of this contract.
2. The contractor hereby agrees that any and all subcontracts to this contract, whereby a portion of the work set forth in this contract is to be performed, shall contain a covenant the same as hereinabove set forth in Section 1 of this Appendix.
3. The contractor will take affirmative action to ensure that applicants for employment and employees are treated without regard to their race, color, religion, national origin, age, sex, height, weight, marital status, or any disability that is unrelated to the individual's ability to perform the duties of a particular job or position. Such action shall include, but not be limited to, the following: employment; treatment; upgrading; demotion or transfer; recruitment; advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship.
4. The contractor shall, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, national origin, age, sex, height, weight, marital status, or disability that is unrelated to the individual's ability to perform the duties of a particular job or position.
5. The contractor or its collective bargaining representative shall send to each labor union or representative of workers with which the contractor has a collective bargaining agreement or other contract or understanding a notice advising such labor union or workers' representative of the contractor's commitments under this Appendix.
6. The contractor shall comply with all relevant published rules, regulations, directives, and orders of the Michigan Civil Rights Commission that may be in effect prior to the taking of bids for any individual state project.

7. The contractor shall furnish and file compliance reports within such time and upon such forms as provided by the Michigan Civil Rights Commission; said forms may also elicit information as to the practices, policies, program, and employment statistics of each subcontractor, as well as the contractor itself, and said contractor shall permit access to the contractor's books, records, and accounts by the Michigan Civil Rights Commission and/or its agent for the purposes of investigation to ascertain compliance under this contract and relevant rules, regulations, and orders of the Michigan Civil Rights Commission.
8. In the event that the Michigan Civil Rights Commission finds, after a hearing held pursuant to its rules, that a contractor has not complied with the contractual obligations under this contract, the Michigan Civil Rights Commission may, as a part of its order based upon such findings, certify said findings to the State Administrative Board of the State of Michigan, which State Administrative Board may order the cancellation of the contract found to have been violated and/or declare the contractor ineligible for future contracts with the state and its political and civil subdivisions, departments, and officers, including the governing boards of institutions of higher education, until the contractor complies with said order of the Michigan Civil Rights Commission. Notice of said declaration of future ineligibility may be given to any or all of the persons with whom the contractor is declared ineligible to contract as a contracting party in future contracts. In any case before the Michigan Civil Rights Commission in which cancellation of an existing contract is a possibility, the contracting agency shall be notified of such possible remedy and shall be given the option by the Michigan Civil Rights Commission to participate in such proceedings.
9. The contractor shall include or incorporate by reference, the provisions of the foregoing paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Michigan Civil Rights Commission; all subcontracts and purchase orders will also state that said provisions will be binding upon each subcontractor or supplier.

Revised June 2011

APPENDIX B TITLE VI ASSURANCE

During the performance of this contract, the contractor, for itself, its assignees, and its successors in interest (hereinafter referred to as the "contractor"), agrees as follows:

1. **Compliance with Regulations:** For all federally assisted programs, the contractor shall comply with the nondiscrimination regulations set forth in 49 CFR Part 21, as may be amended from time to time (hereinafter referred to as the Regulations). Such Regulations are incorporated herein by reference and made a part of this contract.
2. **Nondiscrimination:** The contractor, with regard to the work performed under the contract, shall not discriminate on the grounds of race, color, sex, or national origin in the selection, retention, and treatment of subcontractors, including procurements of materials and leases of equipment. The contractor shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the Regulations, including employment practices, when the contractor covers a program set forth in Appendix B of the Regulations.
3. **Solicitation for Subcontracts, Including Procurements of Materials and Equipment:** All solicitations made by the contractor, either by competitive bidding or by negotiation for subcontract work, including procurement of materials or leases of equipment, must include a notification to each potential subcontractor or supplier of the contractor's obligations under the contract and the Regulations relative to nondiscrimination on the grounds of race, color, or national origin.
4. **Information and Reports:** The contractor shall provide all information and reports required by the Regulations or directives issued pursuant thereto and shall permit access to its books, records, accounts, other sources of information, and facilities as may be determined to be pertinent by the Department or the United States Department of Transportation (USDOT) in order to ascertain compliance with such Regulations or directives. If required information concerning the contractor is in the exclusive possession of another who fails or refuses to furnish the required information, the contractor shall certify to the Department or the USDOT, as appropriate, and shall set forth the efforts that it made to obtain the information.
5. **Sanctions for Noncompliance:** In the event of the contractor's noncompliance with the nondiscrimination provisions of this contract, the Department shall impose such contract sanctions as it or the USDOT may determine to be appropriate, including, but not limited to, the following:
 - a. Withholding payments to the contractor until the contractor complies; and/or
 - b. Canceling, terminating, or suspending the contract, in whole or in part.

6. **Incorporation of Provisions:** The contractor shall include the provisions of Sections (1) through (6) in every subcontract, including procurement of material and leases of equipment, unless exempt by the Regulations or directives issued pursuant thereto. The contractor shall take such action with respect to any subcontract or procurement as the Department or the USDOT may direct as a means of enforcing such provisions, including sanctions for non-compliance, provided, however, that in the event a contractor becomes involved in or is threatened with litigation from a subcontractor or supplier as a result of such direction, the contractor may request the Department to enter into such litigation to protect the interests of the state. In addition, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

Revised June 2011

APPENDIX C

TO BE INCLUDED IN ALL FINANCIAL ASSISTANCE AGREEMENTS WITH LOCAL AGENCIES

Assurance that Recipients and Contractors Must Make (Excerpts from US DOT Regulation 49 CFR 26.13)

- A. Each financial assistance agreement signed with a DOT operating administration (or a primary recipient) must include the following assurance:**

The recipient shall not discriminate on the basis of race, color, national origin, or sex in the award and performance of any US DOT-assisted contract or in the administration of its DBE program or the requirements of 49 CFR Part 26. The recipient shall take all necessary and reasonable steps under 49 CFR Part 26 to ensure nondiscrimination in the award and administration of US DOT-assisted contracts. The recipient's DBE program, as required by 49 CFR Part 26 and as approved by US DOT, is incorporated by reference in this agreement. Implementation of this program is a legal obligation and failure to carry out its terms shall be treated as a violation of this agreement. Upon notification to the recipient of its failure to carry out its approved program, the department may impose sanctions as provided for under Part 26 and may, in appropriate cases, refer the matter for enforcement under 18 U.S.C. 1001 and/or the Program Fraud Civil Remedies Act of 1986 (31 U.S.C. 3801 et seq.).

- B. Each contract MDOT signs with a contractor (and each subcontract the prime contractor signs with a subcontractor) must include the following assurance:**

The contractor, sub recipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of US DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate.

VIETNAM VETERANS OF AMERICA
Michael J. Bost Chapter 18
P. O. Box 1766
Grand Rapids, MI 49501
616-644-2787

July 14, 2022

Mayor Mike De Vore
City of Lowell
301 East Main St
Lowell, MI 49331

Dear Mayor De Vore

The Michael J. Bost Chapter 18 of the Vietnam Veterans of America will observe Prisoner of War/Missing in Action Recognition Day on Friday, September 16, 2022. We will have a brief ceremony at **2:00 PM** in the chapel in the new building of the Michigan Home for Veterans in Grand Rapids.

We would like the City of Lowell, with other communities, issue a proclamation declaring September 16, 2022 as Prisoner of War/Missing in Action Day. This resolution would then be presented to the Michael J. Bost Chapter of the Vietnam Veterans. A sample is included for your convenience.

Your presence is requested at this ceremony to make the presentation to the Vietnam Veterans of America Chapter 18. Out of respect for those who are present, we would appreciate dignitaries being present for the entire ceremony.

If you or your representative are able to attend this ceremony, please let us know.

Covid regulations will apply.

For further questions, please call Betty Pike 616-644-2787.

Thank you for your consideration.

Sincerely,

Tom Sibley
President
Michael J. Bost
Chapter 18
Vietnam Veterans of America

**CITY OF LOWELL
KENT COUNTY, MICHIGAN**

RESOLUTION NO. 26-22

**RESOLUTION TO PROVIDE FOR THE DESIGNATION OF
SEPTEMBER 16, 2022, AS
"PRISONER OF WAR/MISSING IN ACTION RECOGNITION DAY"**

Councilmember _____ supported by Councilmember _____ moved the adoption of the following resolution:

WHEREAS, the United States has fought in many wars, one of the longest was the Vietnamese Conflict; and,

WHEREAS, Friday,, September 16, 2022 is a day of remembrance for those who suffered as prisoners of war or are still missing as a result of any conflict; and,

WHEREAS, although cooperation has increased within the past few years, there are still nearly 1584 American servicemen and civilians including 48 from the State of Michigan missing and unaccounted for in Indochina. The uncertainty surrounding their fates has caused their families to suffer great hardship; and,

WHEREAS, increasing public awareness and focusing public attention on this issue is one way to help achieve this goal.

NOW, THEREFORE, BE IT RESOLVED, by the Council of the City of Lowell, that **September 16, 2022** shall be designated as:

"PRISONER OF WAR/MISSING IN ACTION RECOGNITION DAY"

We urge all of our citizens to take note of this important issue and remember those servicemen and civilians who were prisoners of war and those that are still missing and to commemorate the day with appropriate activities.

YEAS: Councilmembers _____

NAYS: Councilmembers _____

ABSTAIN: Councilmembers _____

ABSENT: Councilmembers _____

RESOLUTION DECLARED ADOPTED.

Dated: September 6, 2022

Susan Ullery, City Clerk

CERTIFICATION

I, the undersigned Clerk of the City of Lowell, Michigan (the "City"), do hereby certify that the foregoing is a true and complete copy of a resolution adopted by the City Council of the City at a regular meeting held on September 6, 2022, and that public notice of said meeting was given pursuant to, and in compliance with, Act 267 of the Public Acts of Michigan of 1976, as amended.

Susan Ullery, City Clerk

Dated: September 6, 2022



LOWELL CITY COUNCIL
MEMORANDUM

DATE: September 1, 2022

TO: Mayor DeVore and Lowell City Council

FROM: Michael T. Burns, City Manager *mb*

RE: Off Premises Tasting Room License

The City of Lowell has received a request to consider a resolution for a new Off-Premises Tasting Room License from Red Barn Antiques, located at 217 W. Main St.

Red Barn would like to allow for samples and sell wine from Love Wines based in Ludington. This approval would allow Red Barn Antiques to sell under the liquor license held by Love Wines.

Approval is needed from the local governing body to allow for Red Barn Antiques to be able to do this. Resolution 27-22 is presented for your consideration.

I recommend the Lowell City Council approve for Red Barn Antiques to seek an Off-Premises Tasting Room License for 217 W. Main St.



Local Government Approval For Off-Premises Tasting Room License
(Authorized by MCL 436.1536)

Instructions for Applicants:

- You must obtain a recommendation from the local legislative body for a new Off-Premises Tasting Room License application.

Instructions for Local Legislative Body:

- Complete this resolution or provide a resolution, along with certification from the clerk or adopted minutes from the meeting at which this request was considered.

At a _____ meeting of the _____ council/board
(regular or special) (township, city, village)
called to order by _____ on _____ at _____
(date) (time)
the following resolution was offered:
Moved by _____ and supported by _____
that the application from _____
(name of applicant - if a corporation or limited liability company, please state the company name)

for a **NEW OFF-PREMISES TASTING ROOM LICENSE**

to be located at: 217 W Main St LOVE Wines, LLC

It is the consensus of this body that it _____ this application be considered for
(recommends/does not recommend)
approval by the Michigan Liquor Control Commission.

If disapproved, the reasons for disapproval are _____

Vote

Yeas: _____

Nays: _____

Absent: _____

I hereby certify that the foregoing is true and is a complete copy of the resolution offered and adopted by the
council/board at a _____ meeting held on _____
(regular or special) (date) (township, city, village)

Print Name of Clerk

Signature of Clerk

Date

Under Article IV, Section 40, of the Constitution of Michigan (1963), the Commission shall exercise complete control of the alcoholic beverage traffic within this state, including the retail sales thereof, subject to statutory limitations. Further, the Commission shall have the sole right, power, and duty to control the alcoholic beverage traffic and traffic in other alcoholic liquor within this state, including the licensure of businesses and individuals.

Please return this completed form along with any corresponding documents to:

Michigan Liquor Control Commission

Mailing address: P.O. Box 30005, Lansing, MI 48909

Hand deliveries or overnight packages: Constitution Hall - 525 W. Allegan, Lansing, MI 48933

Fax to: 517-763-0059

July 18, 2022

Michigan Municipal League Annual Meeting Notice

(Please present at the next Council, Commission or Board Meeting)

Dear Official:

The Michigan Municipal League Annual Convention will be held in Muskegon, October 19-21, 2022. The League's "Annual Meeting" is scheduled for 4:30 pm on Wednesday, October 19 in Section D meeting room at the VanDyk Mortgage Convention Center. The meeting will be held for the following purposes:

1. Policy. A) To vote on the Core Legislative Principles document.

In regard to the proposed League Core Legislative Principles, the document is available on the League website at <http://www.mml.org/delegate>. If you would like to receive a copy of the proposed principles by fax or email, please call Monica Druks at the League at 800-653-2483.

B) If the League Board of Trustees has presented any resolutions to the membership, they also will be voted on. (See #1 on page 2.)

In regard to resolutions, member municipalities planning on submitting resolutions for consideration by the League Trustees are reminded that under the Bylaws, they must be submitted to the Trustees for their review by September 18, 2022.

2. Other Business. To transact such other business as may properly come before the meeting.

Designation of Voting Delegates

Pursuant to the provisions of the League Bylaws, you are requested to designate by action of your governing body one of your officials who will be in attendance at the Convention as your official representative to cast the vote of the municipality at the Annual Meeting, and, if possible, to designate one other official to serve as alternate. Please submit this information through the League website by visiting <http://www.mml.org/delegate> no later than September 18, 2022.

We love where you live.



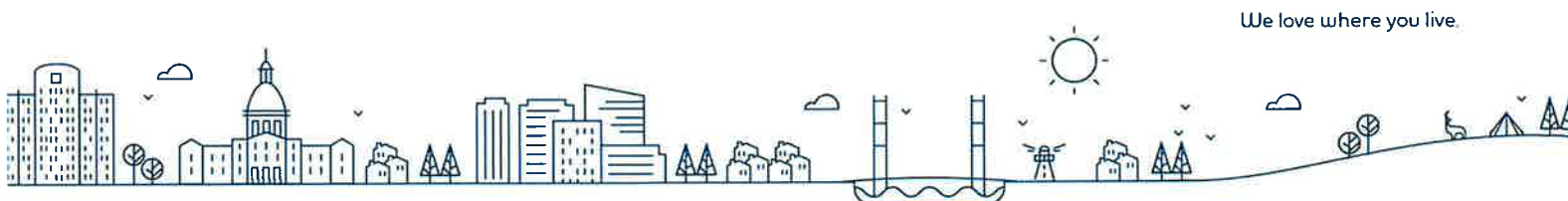
Regarding the designation of an official representative of the member to the annual meeting, please note the following section of the League Bylaws:

“Section 4.4 - Votes of Members. Each member shall be equally privileged with all other members in its voice and vote in the election of officers and upon any proposition presented for discussion or decision at any meeting of the members. Honorary members shall be entitled to participate in the discussion of any question, but such members shall not be entitled to vote. The vote of each member shall be cast by its official representative attending the meeting at which an election of officers or a decision on any proposition shall take place. Each member shall, by action of its governing body prior to the annual meeting or any special meeting, appoint one official of such member as its principal official representative to cast the vote of the member at such meeting, and may appoint one official as its alternate official representative to serve in the absence or inability to act of the principal representative.”

1. Statements of Policy and Resolutions

Regarding consideration of resolutions and statements of policy, under Section 4.5 of the League Bylaws, the Board of Trustees acts as the Resolutions Committee, and “no resolution or motion, except procedural and incidental matters having to do with business properly before the annual meeting or pertaining to the conduct of the meeting, shall be considered at the annual meeting unless it is either (1) submitted to the meeting by the Board of Trustees, or (2) submitted in writing to the Board of Trustees by resolution of the governing body of a member at least thirty (30) days preceding the date of the annual meeting.” Thus, the deadline this year for the League to receive resolutions is September 18, 2022. Please submit resolutions to the attention of Daniel P. Gilmartin, Executive Director/CEO at 1675 Green Rd., Ann Arbor, MI 48105. Any resolution submitted by a member municipality will go to the League Board of Trustees, serving as the resolutions committee under the Bylaws, which may present it to the membership at the Annual Meeting or refer it to the appropriate policy committee for additional action.

Further, “Every proposed resolution submitted by a member shall be stated in clear and concise language and shall be accompanied by a statement setting forth the reasons for recommending the proposed resolution. The Board shall consider the proposal at a Board meeting prior to the next annual meeting and, after consideration, shall make a recommendation as to the advisability of adopting each such resolution or modification thereof.”



2. Posting of Proposed Resolutions and Core Legislative Principles

The proposed Michigan Municipal League Core Legislative Principles and any new proposed Resolutions recommended by the Board of Trustees for adoption by the membership will be available on the League website, or at the League registration desk to permit governing bodies of member communities to have an opportunity to review such proposals and delegate to their voting representative the responsibility for expressing the official point of view of the member at the Annual Meeting.

The Board of Trustees will meet on Wednesday, October 19 at 4:30 pm in the Delta Hotel for the purpose of considering such other matters as may be requested by the membership, in addition to other agenda items.

Sincerely,



Barbara Ziarko
President
City Council, Sterling Heights



Daniel P. Gilmartin Executive
Director & CEO



We love where you live.

Memorandum



PUBLIC WORKS

DATE: September 1, 2022

TO: Michael Burns, City Manager



FROM: Daniel Czarnecki, Public Works Director

RE: YMCA Soccer Park Use Agreement

The agreement between the City of Lowell and the YMCA of Greater Grand Rapids to utilize Creekside Park for their soccer program has expired. In discussions with the YMCA, they would like to continue their program and their use of this park.

A Park Use Agreement has been prepared for this use. The form is identical to the past agreement, except of the dates. The participation fees would stay the same as the previous agreement, at \$10.00 per participant. The agreement would expire March 31, 2025.

This request went before the Lowell Parks Board at their August meeting. The board agreed unanimously in support of this use and recommends that City Council approve the request.

It is recommended the Lowell City Council approve the agreement with the YMCA of Greater Grand Rapids as presented and authorize the Mayor to sign the agreement.

PUBLIC PARKS USE AGREEMENT

THIS PUBIC PARK USE AGREEMENT (the "Agreement") dated as of September 6, 2022, by and between the **YMCA OF GREATER GRAND RAPIDS**, a Michigan nonprofit corporation ("YMCA"), of 1335 W. Main St, Lowell, Michigan 49331 and the **CITY OF LOWELL**, a Michigan municipal corporation (the "City"), of 301 E. Main Street, Lowell, Michigan 49331.

RECITALS

- A. The City owns Creekside and Recreation Park, public parks (the "Parks"), within the city.
- B. The YMCA has requested permission to use the Parks for the purpose of games and related activities (the "Use").
- C. The City is willing to permit the YMCA to use the Parks for the Use subject to the terms and conditions of this Agreement.

NOW, THEREFORE, in consideration of the respective representations, covenants and agreements contained herein, the parties hereto agree as follows:

- 1. **Use of Parks.** The city agrees, pursuant to the terms and conditions of this Agreement to permit the YMCA to use the Parks for the Use.
- 2. **Usage Fees.** The YMCA shall pay the City the following usage fees:
 - A. **Participation Fee.** An annual participation fee shall be paid by the YMCA to the City for each YMCA participant participating in the YMCA activities at the Parks (the "Participation Fee"). The Participant Fee for the 2022 calendar year shall be \$10.00 per participant. The Participant Fee for subsequent calendar years during any extensions of the term of the Agreement shall be established by the City. The City agrees to notify the YMCA of the amount of the Participant Fee on or before November 1 proceeding the calendar year the Participant Fee is to be in effect. The Participant Fee shall be paid by the YMCA to the City not less than 30 days prior to the date the YMCA's activities are scheduled to begin at the Parks. The City will rely on the YMCA's signed written statement of the total number of participants to which the Participant Fee applies, *provided, however*, the YMCA will provide documentation of the number of such participants upon request of the City.
 - B. **Tournament Fee.** The YMCA shall pay the City a fee of \$100 per day for each day the YMCA holds a tournament, play-off games or all-star game and such use prevents the City from renting the pavilion at Creekside Park to another user (the "Tournament Fee"). The YMCA shall pay the City not less than 30 days before such activity is scheduled to be held.

3. **Scheduling of Activities.** The City shall be responsible for coordinating the scheduling of all activities of the YMCA and other users of the Parks. The YMCA agrees to work cooperatively with other users of the Parks. The YMCA agrees not to reserve fields at the Parks and then not use them except in the event of weather conditions or other extraordinary circumstances which prevent such use. The City shall determine the final schedule of activities at the Parks giving priority, in the event of a conflict, to the activities which will have the greatest number of participants.
4. **Maintenance.** During the time it has activities at the Parks, the YMCA shall be responsible for keeping those portions of the Parks it is using including the restrooms clean of litter and other debris and in an orderly and safe condition.
5. **Utilities.** To the extent determinable by the City, the YMCA shall be responsible for the timely payment of the cost of utilities, i.e., water, sanitary sewer, electric, etc., directly related to facilities it is using at the Parks. The City and the YMCA shall mutually agree on the method of measuring utility usage and the cost thereof.
6. **General Maintenance.** The City will be responsible for mowing the athletic fields at the Parks used by the YMCA as needed during the time such fields are being used by the YMCA and for providing routine cleaning and maintenance of the Parks' restroom and other facilities. The City will be responsible for one application per year of fertilizer and weed control to the athletic fields used by the YMCA. The YMCA shall be responsible, under the City's supervision, for repairing or restoring any damage or deterioration of such athletic fields or other facilities in the Parks caused by the YMCA's abnormal use.
7. **Concession Permits.** If the YMCA operates a concession business during its use of the Parks, it shall be responsible for obtaining and keeping current any licenses and permits required by the Kent County Department of Public Health or other governmental body or agency.
8. **Indemnification and Insurance.** The YMCA shall indemnify and hold harmless the City and its officers, councilmembers, agents and employees from and against any and all losses, expenses (including attorney fees and costs), claims and demands sustained by reason of negligence of the YMCA and its members, volunteers, participants, guests and invitees while using the Parks. The YMCA shall obtain and continuously maintain in effect during the term of this Agreement a policy of general liability insurance in the amount of \$2,000,000 per occurrence and in the annual aggregate with an insurance company licensed to do business in the State of Michigan. The City shall be named an additional insured on the policy and the policy shall provide a waiver of subrogation and at least 30 days written notice to the City of any cancellation, termination or material modification of the policy. The YMCA shall provide the City a current copy of the policy or certificate of insurance evidencing such coverage.
9. **Term.** The term of the Agreement shall begin on September 15, 2022, and end on March 31 2025. Thereafter, upon written approval of the City Council and the YMCA, this agreement may be renewed for successive one-year terms.

10. Annual Review. The YMCA and the City agree to meet annually each year, to review this Agreement and the use of the Parks by the YMCA during the prior calendar year.

11. Early Termination. This Agreement may be terminated by either party upon written notice to the other party of failure to comply with the terms of this Agreement and continued non-compliance for 30 days after such notice is given. In addition, this Agreement may be terminated at any time with or without cause upon 180 days advance written notice by one party to the other party. Any notice given to the City shall be by first class mail or personal delivery to 310 East Main Street, Lowell, Michigan 49331, Attention: City Manager and to the YMCA by first class mail for personal delivery to 1250 W. Main St., Lowell, Michigan 49331, Attention: President. Either party may notify the other of a change in the notice address by written notice in accordance with this paragraph.

12. Applicable Law. This Agreement shall be interpreted in accordance with the laws of the State of Michigan.

13. Entire Agreement. This Agreement constitutes the entire agreement between the parties hereto related to the subject matter hereto and there are no other representations, promises or agreements, oral or written, expressed or implied between the parties hereto.

14. Amendment and Assignment. This Agreement may not be amended or assigned without the prior written consent of both parties hereto.

IN WITNESS WHEREOF, the City and the YMCA have caused these present by their respective authorized officer(s), all as of the day and year first written above.

**LOWELL YOUNG MEN'S
CHRISTIAN ASSOCIATION, a
branch of the YMCA OF GREATER
GRAND RAPIDS**

By: _____

Its: _____

CITY OF LOWELL

By: _____

Michael DeVore, Mayor

Attest: _____

Susan Ullery, City Clerk

Memorandum



DATE: September 1, 2022

TO: Michael Burns, City Manager

FROM: Daniel Czarnecki, Public Works Director

PUBLIC WORKS

RE: Surplus Equipment

A review of unused equipment at the DPW has come up with the following list:

- 2000 John Deere Gator (Unit #8)
- 2014 Ex-Mark 36-inch Mower (Unit #54)
- 2000 Scagg 36-inch Mower
- Monroe Salt Spreaders (3 unused units)
- 2017 Paladin Loader Bucket 3-yd
- 2010 Impala Staff Car (Unit #W-301)
- 2016 Chevy Pickup Box
- 1997 Airlessco Paint Machine
- 1954 Allis-Chalmers Motor Grader (Unit #30)
- Toledo Floor Scale

This Gator is not used as there are several issues with it. We also have a new Gator budgeted for this current fiscal year to replace a second Gator currently used at the cemetery.

The mowers were previously replaced, the two on this list are no longer being used by DPW.

Salt spreaders are spares that are unused. We have two front line salt spreaders plus one spare.

The loader bucket is unused.

The Impala is worn out. It has been replaced with a Chevy Bolt electric car.

We have two other paint machines for installing traffic and parking lines.

The Motor Grader has not been used by DPW for several years. We utilize the plow truck underbelly plow blade for grading the few gravel drives we have (airport, Rec Park). The unit does start and is finicky to operate. Based on the amount of old construction guys who stop and look at/question the unit, we might be able to get a good return on selling this unit at this time.

We have been in contact with Ranger Bid (<https://www.rangerbid.com/>) for online sales of this excess equipment. My understanding is the City has used them in the past to help with selling our excess equipment. Any funds received from the sales can be placed in the Equipment Fund for future purchases of equipment.

Unit No.	Schedule C. Code No.	Type	Make	Model Year	Model of Series	VIN	GVW Size, Weight, Etc.	Age of machine
8	96.415	All Terrain Utility Vehicle	John Deere	2000	6x4 Gator	W006X4X054831	6X4 Gasoline	22
54	81.255	Rotary Mower	Ex-Mark	2014	VTS541KA363	314642507	36"	8
		Rotary Mower	Scagg	2000	STSM-72		36"	22
		Salt spreaders	Monroe	Various			10ft.	
31-3	85.307	Bucket	Paladin	2017	90H1238		3 Yards	5
W-301	10.100	Staff Car	Chevrolet	2010	Impala (Old police car)			12
		Scale	Toledo					
		Pickup Box	Chevrolet	2016	New pickup box removed to install service body on #9			
		Paint striper	Airlessco	1997				

