375 Essjay Road, Suite 200, Williamsville, New York 14221
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ADDENDUM NO. 02

Northland Corridor Redevelopment Project Phase 4
631 Northland Ave.
Buffalo, NY 14211

DATE

October 17, 2025

OWNER

Buffalo Urban Development Corporation
95 Perry Street, Suite 404
Buffalo, NY 14203

ARCHITECT/ENGINEER

Wendel WD Architecture, Engineering, Surveying & Landscape Architecture, PC
375 Essjay Road, Suite 200
Williamsville, NY 14221

Project No. 432607

This Addendum is being issued to clarify the bid documents and shall supersede and supplement all portions of previously issued bid documents with which it conflicts. It shall be made an integral part of the construction documents.

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Project **Northland Corridor Redevelopment Phase 4 (BUDC)**
631 Northland Avenue, Buffalo, NY
Wendel Project No. **432607**

Addendum No. **2**
Contract **-**
Date **10/17/25**

ARTICLE - **1**
DRAWING NO. **N/A**
SPEC SECTION **N/A**

ADDITIONAL INFORMATION: Prebid Meeting Agenda, Minutes and record of attendance are attached as part of this addendum.

ARTICLE - **2**
DRAWING NO. **N/A**
SPEC SECTION **Table of Contents**

DELETE: Existing Table of Contents

ADD: Revised Table of Contents attached to this addendum adding specification sections as outlined herein to Division 23, 28, and additional reports and information added to Volume 2 Appendix A – Reports.

ARTICLE - **3**
DRAWING NO. **N/A**
SPEC SECTION **N/A**

ADDITIONAL INFORMATION: Links to access Matterport scans of the building are included as part of this addendum for Contractor information and reference.

First Floor Main Model
https://my.matterport.com/show/?m=MVgVofXxDtK

Second floor Ladies room
https://my.matterport.com/show/?m=uaXEr2ekdgu

ARTICLE - **4**
DRAWING NO. **N/A**
SPEC SECTION **008500 NYS Prevailing Wage**

ADD: Prevailing Wage Rate specification section 008500 to Division 00 specifications attached to this addendum.

CLARIFICATION: Buffalo Urban Development Corporation (BUDC) is generally subject to the provisions of Section 224-a of the Labor Law, which requires the payment of prevailing wage for covered projects that meet the $5M project cost and 30% public benefit thresholds set forth in the law. As this specific project at 631 Northland Ave. is seeking historic tax credits, it is not a “covered project” under Section 224-a and therefore prevailing wage is not required. Notwithstanding, BUDC is requiring prevailing wage to be paid for the construction work on this project.

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Project	**Northland Corridor Redevelopment Phase 4 (BUDC)**	Addendum No.	**2**
	631 Northland Avenue, Buffalo, NY	Contract	**-**
Wendel Project No.	**432607**	Date	**10/17/25**

ARTICLE - **5** DRAWING NO. **A301 & A900**

SPEC SECTION **N/A**

QUESTION: The window schedule on page A900 calls out a window type "W-8C." There is no window indicated with this type. There is no elevation provided either. Is there a "W-8C" within this project, if so, could the drawings be revised?

RESPONSE: There is (1) type W-8c window not originally shown on the elevations. Note that this window is on the east facade and serves as a small bump out, so it is actually shown on the north facade drawing. It is immediately adjacent to the W-6 windows on the east facade as a reference. Please refer to the revised drawing A301 and A900 drawings are attached.

REPLACE: Drawing Sheets A301 and A900 with the attached as part of this addendum.

ARTICLE - **6** DRAWING NO. **N/A**

SPEC SECTION **N/A**

QUESTION:

1. Are bid documents refundable per the Instruction to Bidders Article 3.1.2?
2. Is there a NYSCAP (New York State Certified Apprenticeship Program) requirement?
3. Is there a self-performance requirement of the bidding contractor?
4. We request a copy of the Owner's RECAP Grant Agreement documents.
5. Are there waivers for the MWBE goals?

ANSWER:

1. As per Bidders Article 3.1.1 there is no bid documents deposit. Contractors shall obtain documents as outlined in the Bid Advertisement at their own cost.
2. There is no NYSCAP requirement.
3. There is no self-performance requirement of the bidding contractor.
4. Please refer to the attached RECAP Grant Disbursement Agreement and the Amendment for grant #135,711
5. By waivers do you mean utilization forms? If yes, please refer to the attached Recap Agreement.

ADDITIONAL INFORMATION: RECAP Grant Disbursement Agreement and the Amendment for grant #135,711 issued for reference in this addendum.

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Project	**Northland Corridor Redevelopment Phase 4 (BUDC)**	Addendum No.	**2**
	631 Northland Avenue, Buffalo, NY	Contract	**-**
Wendel Project No.	**432607**	Date	**10/17/25**

ARTICLE - **7** DRAWING NO. **N/A**

SPEC SECTION **Project Information 001113, Vol 2 Report**

QUESTION:

1. Advertisement to bidder indicates that this project is NOT tax exempt. For bidding purposes please clarify what taxes will apply to this contract. Is it a capital improvement, fully taxable, etc.?

2. Due to the high probability of contaminated soils existing on the site, are contractors performing this work required to have Haz-wopper certifications? Do excess soils need to be disposed of approved landfill that can accept contaminated soils? Is a separate contract responsible for the removal of contaminated soils as part of a Brownfield Cleanup Program?

ANSWER:

1. Please refer to the revised specification section 001113 Project Information/Invitation to Bid which provides applicable tax and tax-exempt clarifications for this project.

2. Please refer to Specification Volume 2 reports including Phase 1 ESA and Limited Phase 2. Additionally, please refer to the 2015 Phase II ESA Report by Fisher Associates added to Volume 2 of the project specification Appendix Reports for reference.

   The project has been accepted into the New York State Brownfield Cleanup Program. The Owner's consultant, LiRo Engineers, submitted the Remedial Investigation Work Plan to the DEC in early October and is currently in a required 45-day public comment period. The consultant expects to have the Remedial Design completed around mid-June 2026 pending agency review timeframes. Should a scope change become necessary due to findings of this simultaneous activity/effort, it will be negotiated accordingly.

   Contractor's health and safety officer shall determine appropriate haz-wopper certifications for this project, if any.

   Yes, excess soils should be handled and dispersed or disposed of accordingly. Contractor is responsible for soils testing as part of their related work.

REPLACE: Section 001113 Project Information with the revised version attached to this addendum.

ADD: 2015 Phase II ESA Report by Fisher Associations to Volume 2, Appendix A – Reports to the project specifications and attached to this addendum.

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Project **Northland Corridor Redevelopment Phase 4 (BUDC)** Addendum No. **2**
631 Northland Avenue, Buffalo, NY Contract **-**
Wendel Project No. **432607** Date **10/17/25**

ARTICLE - **8** DRAWING NO. **P001**
SPEC SECTION **N/A**

QUESTION: The detail shows a PRV (Pressure reducing valve) in the piping. The specification schedule shows a backflow preventer but no information on the PRV. Is it required? If it is, we need a specification.

ANSWER: Based on flow test from 2019, the pressure at the street is only 44psi. Therefore, a PRV at the building water service would not be required. PRV does not need to be provided as part of this bid.

ARTICLE - **9** DRAWING NO. **N/A**
SPEC SECTION **012100**

QUESTION:

1. Please clarify how we are to provide pricing for allowance #5. Section 012100 indicates to include the sum quantities in 25 SF increments or fractions thereof based on the legend in section 012100 E.2. For example, are we to take the quantity provided for FBI- 40 SQFT and provide a unit cost for just removing an additional 25 sqft? Item TSI on the legend is in linear Feet (lf). What allowance quantity are we to use for this?

2. Please clarify how we are to provide pricing for allowance #6. Section 012100 indicates: Include the sum quantities in 25 SF increments in addition to what's on the drawings (HM101, etc.), Include removal of asbestos-containing debris atop the existing wood block floor before wood block removal. Please provide a base quantity for bidding purposes of Hazardous-Containing Debris, assumed to be atop the existing wood block floor.

ANSWER:

1. Yes, contractor shall utilize the quantity provided in the documents and include a unit cost for the amount requested in the Allowance specification section 012100. This will establish the unit cost price for additional or less removal as required. LF shall be converted to SF for unit price cost purposes.

2. Allowance #05 Hazardous Materials Abatement will be revised and issued in Addendum #03 accordingly for unit price allowances for specific items as identified in that allowance. Allowance #06 will also be revised as part of Addendum #03 to include estimated quantity for Contractor to provide unit cost lump sum as per the Bid Form.

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Project **Northland Corridor Redevelopment Phase 4 (BUDC)** Addendum No. **2**
631 Northland Avenue, Buffalo, NY Contract **-**
Wendel Project No. **432607** Date **10/17/25**

ARTICLE - **10** DRAWING NO. **N/A**
SPEC SECTION **051200**

QUESTION: Per section 05 12 00 an AISC certificated fabricator and erector is required for this project. Can this be waived if certain experience requirements are met? Waiving this requirement would also increase MWBE participation.

ANSWER: Reference Structural Steel Note #14/S000: "Fabricator shall have AISC certification for type and complexity of building indicated, or equivalent." Reference BCNYS Section 1404.2.5 and see excerpt below from 2020 BCNYS section 1704.2.5.

1704.2.5 Special inspection of fabricated items. Where fabrication of structural, load-bearing or lateral load-resisting members or assemblies is being conducted on the premises of a fabricator's shop, special inspections of the fabricated items shall be performed during fabrication, except where the fabricator has been approved to perform work without special inspections in accordance with Section

1704.2.5.1 Fabricator approval. Special inspections during fabrication are not required where the work is done on the premises of a fabricator approved to perform such work without special inspection. Approval shall be based on review of the fabricator's written fabrication procedures and quality control manuals that provide a basis for control of materials and workmanship, with periodic auditing of fabrication and quality control practices by an approved agency or the building official. At completion of fabrication, the approved fabricator shall submit a certificate of compliance to the owner or the owner's authorized agent for submittal to the building official as specified in Section 1704.5 stating that the work was performed in accordance with the approved construction documents.

ARTICLE - **11** DRAWING NO. **N/A**
SPEC SECTION **AD101 A & B**

QUESTION:

1. Note D2 on AD101 A&B indicates to remove all wood blocking flooring according to the environmental remediation plan. Please provide the environmental remediation plan or indicate how the wood block flooring is to be removed.

2. Note D2 on AD101 A&B indicates to clean the underlying concrete floor. Please provide specification for this work.

ANSWER:

1. Contractor shall refer to Volume 2 Appendix A Limited Prerenovation Hazmat Inspection Report test results which reiterate the non-contaminated wood block flooring. Should any hazardous materials be found otherwise during Contractor work, removal and handling is specified in Sections 024119 and 028200.

2. Contractor shall refer to Section 024119 and General Conditions for cleaning of the concrete floor. Further, please refer to the revised attached AD101 drawings revising note D2.

REPLACE: Drawings AD101 A & B attached to this addendum with revision to drawing note(s).

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Project	**Northland Corridor Redevelopment Phase 4 (BUDC)**	Addendum No.	**2**
	631 Northland Avenue, Buffalo, NY	Contract	**-**
Wendel Project No.	**432607**	Date	**10/17/25**

ARTICLE - **12**

DRAWING NO. **N/A**

SPEC SECTION **230259, 230553, 233116, 235100, 233723**

ADD: Add the following specification sections – 230529 Hangers and Supports for HVAC Piping and Equipment, 230553 Identification for HVAC and Piping, 233116 Nonmetal Ducts, 233723 HVAC Gravity Ventilators, 235100 Breechings, Chimneys, and Stacks.

ARTICLE - **13**

DRAWING NO. **A301, A900**

SPEC SECTION **N/A**

QUESTION:

1. Please advise what the window types are for 1/A301 – North Elevation far left. There is no notation as to the window types.

2. There are window types noted on the schedule and elevations that are not shown in window type elevation. Please advise.

3. Are window quantities/types to be used from window schedule or elevation?

4. Is painting per notes C32 & C35 only required in the north portion of the building?

ANSWER:
Contractor shall refer to revised attached A301 and A900 as issued in this Addendum Article 5.

1. (2) W-5G windows, (4) W-5F windows, (1) W-8C windows. The W-8C window is not adjacent to the W-5 windows but is adjacent to the W-6 windows shown on the East Elevation.

2. W-8C was added to the window types and the schedule.

3. The quantities have been confirmed as listed on the schedule. Once the contract is awarded it will be the responsibility of the chosen contractor to confirm all sizes and quantities, and field verify.

4. Painting notes C32 and C35 apply to the entire building. The catwalks aren't shown on the south side of the floor plans because of their height. Contractor shall refer to A310 and A311 (Building Sections) which are also tagged accordingly on those sheets.

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Project	**Northland Corridor Redevelopment Phase 4 (BUDC)**	Addendum No.	**2**
	631 Northland Avenue, Buffalo, NY	Contract	**-**
Wendel Project No.	**432607**	Date	**10/17/25**

ARTICLE - **14** DRAWING NO. **S101A**

SPEC SECTION **N/A**

QUESTION: As noted on S101A there are 8 locations where existing steel floor rails are to be removed at the floor patched to match. Please provide size and depth of the rails to be removed.

ANSWER: Please refer to revised S101A included in this addendum.

REPLACE: Drawing sheet S101A with the revised S101A included in this addendum to address steel floor rails**.**

ARTICLE - **15** DRAWING NO. **N/A**

SPEC SECTION **230010**

QUESTION: I do not see a spec on the building/temperature controls, do you know what is currently in the building or is there a basis of design for what is to be used? Spec 230010-2 notes our scope of work is to include Temperature Controls. Is this to be part of the contract?

ANSWER: There is not a current temperature control (BMS) system in the building. The contractor shall be responsible for providing factory controls for the Air Rotation Units. Please refer to revised M001 providing clarification. There will not be a building-wide temperature control system (BMS).

ARTICLE - **16** DRAWING NO. **P101**

SPEC SECTION **N/A**

QUESTION: On P101 – Demo note 2 is not indicated on the drawing. Is the entire dashed 1-1/2” gas line along the length of the building to be removed?

ANSWER: The entire dashed line along the length of the building is to be removed. Demo Note 2 applies to this entire length of dashed piping.

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Project **Northland Corridor Redevelopment Phase 4 (BUDC)** Addendum No. **2**
631 Northland Avenue, Buffalo, NY Contract **-**
Wendel Project No. **432607** Date **10/17/25**

ARTICLE - **17** DRAWING NO. **N/A**
SPEC SECTION **034100**

QUESTION: SECTION 03 41 00 PRECAST CONCRETE calls for a Category C4 certified PCI plant. Due to the depth of the plank indicated (2”), this is not feasible. Category 4 plants produce precast concrete structural members made with deflected pre-tensioning or post-tensioning strands. These strands are not indicated on the drawings per detail 2 S103B, just welded wire mesh. Can category 1 or 3 plants be acceptable in lieu of the C4 requirement?

ANSWER: Category C1 is acceptable. Please refer to the revised specification section 034100 included in this addendum.

REPLACE: Specification section 034100 with the attached section 034100 revising paragraph 1.5.C.3 to a designated PCI-certified plant for Group C, Category C1 in lieu of Category C4.

ARTICLE - **18** DRAWING NO. **N/A**
SPEC SECTION **033000**

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Project	**Northland Corridor Redevelopment Phase 4 (BUDC)**	Addendum No.	**2**
	631 Northland Avenue, Buffalo, NY	Contract	**-**
Wendel Project No.	**432607**	Date	**10/17/25**

QUESTION:
Regarding the upcoming bid for the Northland Corridor Redevelopment Project, I have snipped the paragraph below from the Project Documents, Section 033000 "Cast-In-Place Concrete", Page 5, Paragraph 2.5 C. 4. It cannot be bid on by a contractor as specified.

Note the following issues with the specified product:
"Barrier One, Inc." filed for Chapter 7 bankruptcy liquidation in 2023. This company name as specified no longer exists. "Barrier One High Performance Moisture Reduction Admixture" is no longer available. The company has reformed under the new name, Barrier One Concrete Admixtures, and new product brand, MVRA-CPS, and relocated to Winter Garden, FL.

Consequently, there is no correct manufacturer reference standard for contractors to base their bid.

To assure you receive the outcome you have specified and not encounter any project delays, please consider another locally available product, **MVRA 900 by ISE Logik, Inc.** I have attached information on this product for your review. (I can provide a third manufacturer if needed for compliance with the specifications)

MVRA 900 is a proven Moisture Vapor Reducing Admixture with over 14 years of thousands of successful applications...a Lifetime Moisture Emissions Warranty without cumbersome warranty requirements ...a separate Adhesion Warranty cross warranted with the adhesive manufacturer...a Health Product Declaration (HPD) ... and a clearly transparent listing of all ingredients allowing Underwriters Laboratory (UL) to issue **MVRA 900** the only Environmental Product Declaration (EPD) in the industry!

Please consider updating your specifications for future projects to include **ISE Logik MVRA 900** and include in an upcoming addendum for this project. I remain available if you have any questions or need additional information.

ANSWER: Please refer to revised Specification 033000 removing paragraph 2.5.C.4.

REPLACE: Specification section 033000 with the attached revised section 033000.

ARTICLE -	**19**	DRAWING NO.	**M001, M101, M201**
		SPEC SECTION	**N/A**

DELETE: Existing drawings M001, M101, M201.

ADD: Revised drawings M001, M101 and M201 attached to this addendum.

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Project	**Northland Corridor Redevelopment Phase 4 (BUDC)**	Addendum No.	**2**
	631 Northland Avenue, Buffalo, NY	Contract	**-**
Wendel Project No.	**432607**	Date	**10/17/25**

ARTICLE - **20** DRAWING NO. **N/A**

SPEC SECTION **283111**

ADD: Specification Section 283111 Digital, Addressable Fire Alarm System

ARTICLE - **21** DRAWING NO. **AD301, AD303, AD304**

SPEC SECTION **N/A**

DELETE: Existing drawings AD301, AD303, AD304.

ADD: Revised drawings AD301, AD303, AD304 attached to this addendum revising note D07.

END OF ADDENDUM

PRE-BID MEETING AGENDA

Date: October 14, 2025

Subject: BUDC 631 Northland Avenue Redevelopment Project Phase 4

Time: 9:00 am

Place: 683 Northland Ave. NWTC Gallery Space & 631 Northland Ave.
Buffalo, NY 14211

TOPICS FOR DISCUSSION

1. Introduction
   a. Buffalo Urban Development Corporation - Owner
   b. Comvest Inc. – Property Manager
   c. Wendel A/E – A, C, MEP/FP
   d. Ravi Engineering – S, HM

2. Scope of the Project -
   a. Restoration of 631 Northland Ave. for future tenant, light industrial/manufacturing use.
   b. Construction, selective demolition, renovation, site and infrastructure improvements, hazardous material removal, and coordination with appropriate agencies (City, SHPO, NPS, BCP, other).
   c. National Historic Register
   d. Brownfield Cleanup Program
      1) LiRo Engineers
   e. Single Prime Contract:
      1. See section 011000 for single prime GC contract summary
   f. Project Funding Information
      1) RECAP through ESD #135,711

3. Bid Forms
   a. Items to be completed and submitted with each bid:
      1) Lump Sum Cost of Construction
      2) Allowances 1 – 6
      3) Proposed Equivalents (if any)
      4) List of subcontractors, M/WBE identification (30%)
      5) Acknowledge all addenda
      6) Contractor Qualification Form
      7) Waiver of Immunity Clause
      8) Affirmative Action Agreement
      9) Bid Proposal Certifications

4. Project Manual Highlights:

   a. Bid Docs can be obtained through Contract Reporter, Avalon and Construction Exchange at whatever fees they may charge.

   b. Bid schedule
      1. Pre-bid Meeting: 10/14/25 at 9:00 am
      2. First Addendum: - site visit meeting minutes, attendance sheets, and additional details related, scope clarifications, and any responses to RFIs that may be received in time to be included.
      3. Final questions and Substitution requests due 7 days prior to due date of bids (October 30, 2025).
      4. Final Addendum issued: 11/3/25 by 3:00 pm
      5. Bids Due: 11/6/25 by 1:00PM
      6. Anticipated Notice to Proceed: 120 days after the due date and subject to the full execution of the contract documents.

   c. Construction Schedule:
      1. Contract Time: 20 months from the issuance of Notice to Proceed
      2. Final Completion: In no event later than December 31, 2027.

   d. Bid security requirements – 5% of bid amount
   e. Performance & Payment Bond requirements – 100%
   f. Insurance Requirements. As stated in the contract documents, Additional Insured provisions
   g. State and Local Sales Taxes apply
   h. Prevailing Wage Rates
   i. Materials Testing and Special Inspections – Third Party by Owner
   j. Survey Control – by Contractor
   k. Building Permits – By (Contractor), all other Permits, approvals and code inspections necessary for the prosecution of the work shall be secured and paid for by the Contractor(s).
   l. Site Safety – responsibility of the Contractor
   m. LD's = $500/calendar day
   n. Payment applications – Schedule of values, Pencil Copy, 10% retainage
   o. Project Management & Coordination see section 013000
      1. GC is responsible for overall construction operations, administrative procedures, schedule coordination, coordination drawings, project/progress meetings, coordination meetings, preconstruction & preinstallation meetings, closeout, etc.
   p. Temporary facilities and controls see section 015000
      1. Including temp utilities and use charges, fencing, weathertight conditions,
      2. Pest Control
      3. Cold weather and winter protection
      4. Field offices/trailers
   q. RFI's and submittals – Long-lead items first
   r. Warranty per Division 01 and technical specification sections

s. Contractor parking and staging, deliveries etc.

5. Other Items
6. Questions
7. Site Visit

PRE-BID MEETING MINUTES

Date: October, 14, 2025
Subject: Northland Redevelopment Phase 4 631 Northland Ave., Buffalo, NY
Time: 9:00 am
Place: 631 Northland Ave., Buffalo, NY

ATTENDEES: Refer to attached sign in sheet in addition to the Owner/Consultant team listed below.

TOPICS FOR DISCUSSION

1. Introductions
   a. Buffalo Urban Development Corporation - Owner
      1. Rebecca Gandour, Executive VP
      2. Angelo Rhodes II, Project Manager
   b. Comvest Inc. – Property Manager
      1. Dennis Cannon
      2. James Quigley
   c. Wendel A/E – A, C, MEP/FP
      1. Elizabeth Colvin, Project Manager
      2. Ben Seigel, Project Architect
      3. Amber Holycross, VP of Architecture
      4. Chris Chapman, Civil Engineer
   d. Ravi Engineering – S, HM
      1. Ben Reddy, Environmental
      2. Doug Webber, Structural Engineer

2. Scope of the Project:
   a. Restoration of 631 Northland Ave. for future tenant, light industrial/manufacturing use. Intent is to provide a warm white box ready for the Owner to obtain a tenant.
   b. Construction, selective demolition, renovation, site and infrastructure improvements, hazardous material removal, and coordination with appropriate agencies (City, SHPO, NPS, BCP, other).
      1. Includes but is not limited to roof replacement, partial deck replacement, rebuild/restore penthouse, clean/restore masonry and interior building panels, new windows, new electrical service, interior & exterior lighting, existing gas service, sewer/water utility improvements, HVAC air rotation units and ductwork mods/new, and removal of exterior furnace arm on east side of building, new parking lot and main entrances on east side of building, etc.
   c. National Historic Register
      1. SHPO and NPS have provided a condition approval on the design. Awaiting window mockup in process.

d. Brownfield Cleanup Program
    1. LiRo Engineers is the BCP engineer retained by the Owner.
    2. Coordination required between GC and LiRo and BCP requirements.
    3. Remedial Investigative Work Plan has been submitted to DEC for review.
    4. Anticipating Track 4 with 1'+/- cap.
e. Single Prime Contract:
    1. See section 011000 for single prime GC contract summary
f. Project Funding Information
    1. RECAP through ESD #135,711
    2. HTC and BCP tax credits

3. Bid Forms
a. Items to be completed and submitted with each bid:
    1. Lump Sum Cost of Construction
    2. Allowances
    3. Proposed Equivalents (if any)
    4. List of subcontractors, M/WBE identification (30%)
        a. BUDC stressed the effort to fulfill this requirement within the diverse neighborhood.
    5. Acknowledge all addenda
    6. Contractor Qualification Form
    7. Waiver of Immunity Clause
    8. Affirmative Action Agreement
    9. Bid Proposal Certifications

4. Project Manual Highlights:

a. Bid Docs can be obtained through Contract Reporter, Avalon and Construction Exchange at whatever fees they may charge.

b. Bid schedule
    1. Pre-bid Meeting: 10/14/25 at 9:00 am
    2. First Addendum: - site visit meeting minutes, attendance sheets, and additional details related, scope clarifications, and any responses to RFIs that may be received in time to be included.
    3. Final questions and Substitution requests due 7 days prior to due date of bids (October 30, 2025).
    4. Final Addendum issued: 11/3/25 by 3:00 pm
    5. Bids Due: 11/6/25 by 1:00PM
    6. Anticipated Notice to Proceed: 120 days after the due date and subject to the full execution of the contract documents.

c. Construction Schedule:
    1. Contract Time: 20 months from the issuance of Notice to Proceed
    2. Final Completion: In no event later than December 31, 2027.

d. Bid security requirements – 5% of bid amount

e. Performance & Payment Bond requirements – 100%
f. Insurance Requirements. As stated in the contract documents, Additional Insured provisions
g. State and Local Sales Taxes apply
    1. BUDC will clarify via Addendum.
h. Prevailing Wage Rates
    1. Tax credit project so does not apply yet BUDC is requesting PWR be paid for construction work. Will clarify via Addendum.
i. Materials Testing – Owner and Contractor
j. Special Inspections – Third Party by Owner
k. Building Permits – By (Contractor), all other Permits, approvals and code inspections necessary for the prosecution of the work shall be secured and paid for by the Contractor(s).
    1. Owner is submitting for minor site plan and building permit later this month.
    2. Contractor responsible to pull the permit and all related, required project permits.
l. Site Safety – responsibility of the Contractor
m. LD's = $500/calendar day
n. Payment applications – Schedule of values, Pencil Copy, 10% retainage
o. Project Management & Coordination see section 013000
        1. GC is responsible for overall construction operations, administrative procedures, schedule development & coordination, coordination drawings, project/progress meetings, coordination meetings, preconstruction & preinstallation meetings, closeout, etc.
p. Temporary facilities and controls see section 015000
        1. Including temp utilities and use charges, fencing, weathertight conditions,
        2. Pest Control
        3. Cold weather and winter protection
        4. Field offices/trailers
q. RFI's and submittals – Long-lead items first
r. Warranty per Division 01 and technical specification sections
s. Contractor parking and staging, deliveries etc.
    1. Contractor shall coordinate with Property Manager as contractors need to stay out of the 683 driveway and parking lot which is not part of the 631 parcel/project.

5. Other Items

    a. OH Cranes – there are existing OH cranes in the building now which will remain as per the documents, be disconnected, secured in place, painted, and left safely in a condition for future tenant use should they elect to utilize.

6. Questions

7. Site Visit

Pre-Bid Sign-In Sheet

Project No.:	**432607**	Bid Date & Time: **October 14, 2025 @ 9AM**
Address:	**631 Northland Ave. Buffalo, NY**	
Project Name:	**BUDC 631 Northland Redevelopment Project Phase 4**	

	Name	Company	Phone # and Email
1	Bruce Hitchcock	CC Services	716-353-0264 716-241-7033 Bruce@CappellaCS.com
2	Matt Leedom	Centimark	740-701-0814 Matthew.leedom@centimark.com
3	John WALKER	Bilone Mechanical	716 982-7277 John.WALKER@Comfort Systems USA.com
4	John Stachewicz	Jameson	716-485-1317 John.Stachewicz@Jameson Roofing.com
5	Alfred Wall	Zoladz co.	716-344-7295 alfredw@zoladz.com
6	Scott Traquair	Lake side	716-364-9057 straquair@Lakesidecontracting.com
7	Jonathan Smith	Abraxas	(716) 864-1938 abxwny@yahoo.com
8	ED Cudney	DWC Mechanical	716-529-8884 ecudney@DWCMechanical.com
9	JEFF A HAYES	HAYES CONST.	JeffA@HAYESBuild.com
10	Ethan LaFrenca	Hayes Const.	Ethan@HayesBuild.com
11	Daniel Buschist	No Streaks	noostreaksWindowDoor@gmail.com
12	DENNIS EBERT	FSR CONTRACTING	dennis@fsrcontracting.com

Pre-Bid Sign-In Sheet

	Name	Company	Phone # and Email
13	Tyler Latacki	Johnson Controls - Fire	716·260·9469 tyler.latacki@jci.com
14	JOE AKEL	LeCHASE	585-975-9241 JOSEPH.AKEL@LECHASE.COM
15	Peter Schmit	Elbers Land	pschmit@elbers landsca .ca 716-285-5241
16	Mark LaRose	Sentry Metal	MARK@SENTRYMETAL.com
17	Tyler Nye	Vanishing Pressure Wash	716 727 9034 Info@VanishingPressureWash.Com
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21	Joe Nye	LJ Quigliano	716 625 8918 joe@quigliano.com
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24	Eric Hurlburt	EBD	716-207-4957 erich@ebdinc.com
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26	Mike Weslowski	RCG	716-712-6657 mweslowski@rodriguez-cg.com
27	R. Hengel	RW PTL	716 359 0095 Rhengel@rw-painting.com

Pre-Bid Sign-In Sheet

	Name	Company	Phone # and Email
28	Megan Kreher	Rpoakhill	716-481-1393 MKreher@rpoakhill.com
29	ROBERT BROOMFIELD	PINTO CONSTRUCTION	716-622-8412 RBROOMFIELD@PINTOCS.COM
30	Parker Sanders	Sanders Roofing	716-512-4520 Projsupport@DASroofing.com
31	John Pexter	MSH/SCC	johne msh co.com 585-247-7028
32	TOM FERRUCCI	IDEAL CON.	716 893 6124 TOM@IDEALCONCRETEINC.COM
33	John McCune	Mark Cerrone	716 525 6630 jmccune@markcerrone.com
34	Ryan Pyatt	WNY Pressure Wash	585.409.8498 WNYPressurewash.com
35	Jim Holler	MONTANTE Const.	(716) 227-5864 JHOLLER@MONTANTE.COM
36	IAN ABRAM	MONTANTE Const	(716) 876-8899 IABRAM@MONTANTE.com
37	JOHN WALSH	Buffalo Const. Constl.	716-243-6279
38	Conrad Shanklin	NYSMBE Urban Roofing LLC	716-548-7755 SHANKLINB@AOL.COM
39	Jason Kimmel	Clarence Wall and Ceiling	(716) 759-2944 Jkimmel@clarencewall.com
40	Brandon Boone	Metro Env	7162859280 bboone@metro-env.com
41			
42			

Ivan Stowbunenko (716) 574-6009
Advantage Overhead Door & Dock

Plum Impressions 716 335 8105
jill@plumimpressions.com

CPR Remodeling Pro 716 578 7524

Michael Serafini, Inc. 716-684-7730
tomk@serafiniconstruction.com

Urban Heating LLC - 716-548-7755
NYS MBE

Chuck DeRose cderose@huntresspainting.com
716-335-8645 Huntress Painting Inc (WMBE)

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716-473-3880. AMI, Inc.

Amanda Kubiak akubiak@mlpcorp.com
716-923-9437 MLP Plumbing + Mechanical

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PREVAILING WAGE RATES

1. COMPLIANCE WITH STATE AND MUNICIPAL ORDINANCES

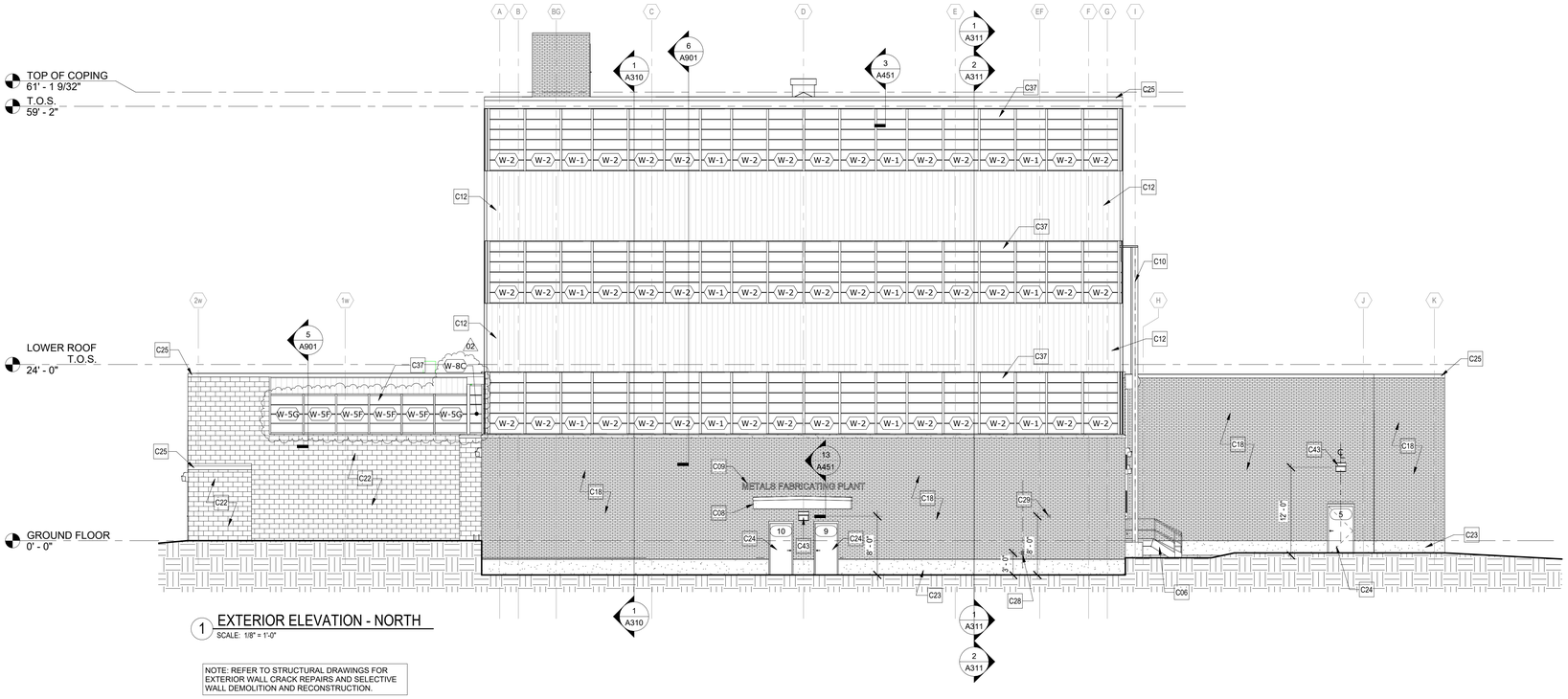
A. Each and every provision of law and clause required by law shall be deemed to be inserted herein and the contract shall be read and enforced as though it was included therein.

2. WAGE SCALE

A. The minimum wage rates to be paid for all work under this Contract shall conform to the Prevailing Rate Schedule published by the State of New York Department of Labor.

B. Wages paid each mechanic or laborer of the Contractor or subcontractor engaged in work under this Contract shall not be less than wages required by the Prevailing Rate Schedule regardless of any contractual relationship which may be alleged to exist between the Contractor or a subcontractor and such laborers or mechanics.

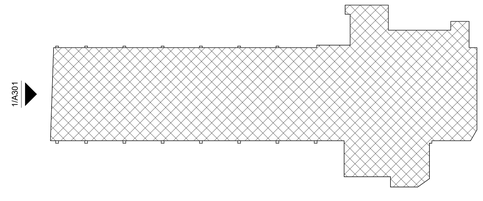
C. The Prevailing Rate Schedule is updated annually in July, unless otherwise determined by the State of New York Department of Labor. The Contractor is responsible for obtaining the updated schedule on the Department of Labor's web site, www.labor.ny.us. Updates are not available in any other manner. The wage rates and supplemental benefits to be paid shall always be those prevailing at the time work is being performed.



1 EXTERIOR ELEVATION - NORTH
SCALE: 1/8" = 1'-0"

NOTE: REFER TO STRUCTURAL DRAWINGS FOR EXTERIOR WALL CRACK REPAIRS AND SELECTIVE WALL DEMOLITION AND RECONSTRUCTION.

CONSTRUCTION KEYNOTES	
C06	PROVIDE STEEL STAIR AND LANDING AS DELEGATED DESIGN, INCLUDING ALL SUPPORTS AND HANDRAILS.
C08	PROVIDE ALUMINUM PANEL AND METAL ROOFING (REFER TO STRUCTURAL)
C09	REPAIR LETTERING AND CLEAN.
C10	EXISTING LEAD BASED COATING TO BE REMOVED IN ITS ENTIRETY AND BE FIELD COATED WITH A CORROSION RESISTANT GALVANIZING PAINT. REFER TO HAZARDOUS MATERIAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
C12	CLEAN EXTERIOR OF METAL PANEL AND APPLY ONE COAT OF PROTECTIVE PAINT. DO NOT CLEAN INTERIOR SURFACE OF WALL PANELS AS THEY CONTAIN ASBESTOS CONTAINING MATERIALS (ACM). REFER TO HAZARDOUS MATERIAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
C18	CLEAN ALL EXTERIOR BRICK MASONRY USING THE GENTLEST MEANS POSSIBLE. REFER TO SPEC SECTIONS: 040110 - MASONRY CLEANING. REFER TO STRUCTURAL DRAWINGS AND SPEC SECTION 040120.63 - BRICK MASONRY REPAIR & SECTION 040120.64 - BRICK MASONRY REPOINTING.
C22	CLEAN ALL EXTERIOR CONCRETE MASONRY USING THE GENTLEST MEANS POSSIBLE. REFER TO SPEC SECTIONS: 040110 - MASONRY CLEANING. REFER TO STRUCTURAL DRAWINGS. REMOVE EFFLORESCENCE AND LOOSE PAINT.
C23	CLEAN ALL EXTERIOR CONCRETE USING THE GENTLEST MEANS POSSIBLE. REFER TO SPECS FOR CLEANING PROCESSES.
C24	HOLLOW METAL DOOR & FRAME IN EXISTING MASONRY OPENING. SEE DOOR SCHEDULE.
C25	ROOF EDGE FASCIA. THE EXPOSED STRUCTURAL STEEL AT THIS CONDITION INCLUDES LEAD BASED COATING TO BE REMOVED IN ITS ENTIRETY AND BE FIELD COATED WITH A CORROSION RESISTANT GALVANIZING PAINT. COORDINATE WITH HAZARDOUS MATERIALS FOR ADDITIONAL REQUIREMENTS. SEE ROOF PLAN.
C28	FIRE DEPARTMENT CONNECTION. CORE PENETRATION IN EXTERIOR WALL AS REQUIRED. SEE FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
C29	BELL STROBE. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
C37	PROVIDE ALUMINUM WINDOWS.
C43	NEW LED WALLPACK. REFER TO ELECTRICAL DRAWINGS.



N KEY PLAN

BUDC
Buffalo Urban Development Corporation
Hon. Christopher P. Scanlon, Chairman

BUFFALO URBAN DEVELOPMENT CORPORATION
631 NORTHLAND AVE.
BUFFALO, NY 14211

INDUSTRIAL MANUFACTURING BUILDING

ISSUED FOR BID

wendel
237 Main Street, Suite 500
Buffalo, NY 14202
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BAC [A+P]® Tri-Main Center
2495 Main Street, Suite 402
Buffalo, NY 14214
P.716.931.5827
Barbara A. Campagna/Architecture + Planning, PLLC

EAR ENGINEERING & LAND SURVEYING P.C.
574 Main Street, Suite 205
East Aurora, NY 14052
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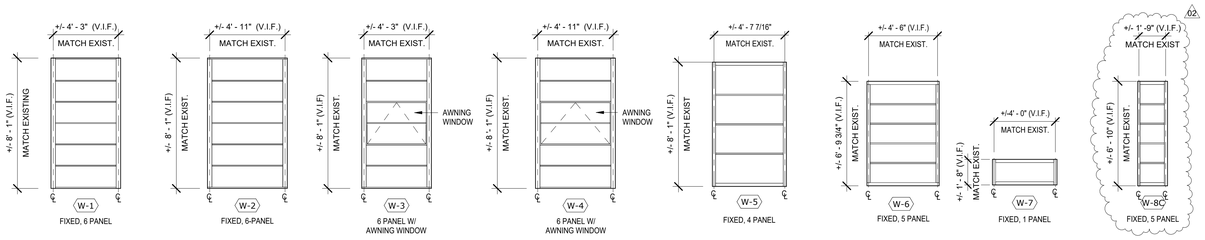
NO.	REVISIONS	DATE
02	PRE-BID ADDENDUM #1	10/10/2025
01	ISSUED FOR PERMIT	10/01/2025
00	ISSUED FOR BID	10/01/2025

DWG. TITLE

EXTERIOR ELEVATION - NORTH

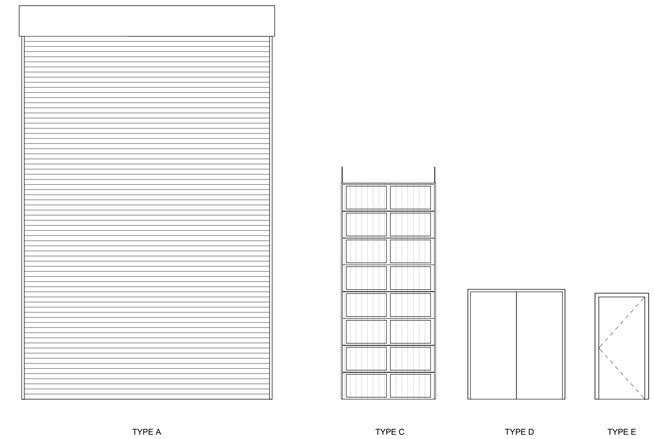
0 1" 2"
GENERIC SCALE BAR
SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING. IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY

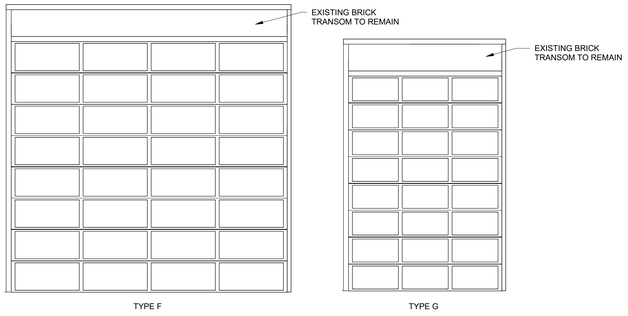
DATE	10/01/2025
SCALE	1/8" = 1'-0"
DWN.	MJC CHK. BS1
PROJ. No.	432607
DWG. No.	**A301**



WINDOW SCHEDULE

Type Mark	Description	Count	Comments
W-1	FIXED, 6 PANEL	234	MATCH EXISTING DIMENSIONS (V.I.F.)
W-1A	FIXED, 4 PANEL / SOLID PANEL COMBO	11	MATCH EXISTING DIMENSIONS (V.I.F.)
W-1B	FIXED, 6 PANEL	1	MATCH EXISTING DIMENSIONS (V.I.F.)
W-2	FIXED, 6 PANEL	189	MATCH EXISTING DIMENSIONS (V.I.F.)
W-3	FIXED / OPERABLE COMBO, 6 PANEL	77	MATCH EXISTING DIMENSIONS (V.I.F.)
W-4	FIXED / OPERABLE COMBO, 6 PANEL	69	MATCH EXISTING DIMENSIONS (V.I.F.)
W-5	FIXED, 4 PANEL	15	MATCH EXISTING DIMENSIONS (V.I.F.)
W-5F	FIXED, 4 PANEL	4	MATCH EXISTING DIMENSIONS (V.I.F.)
W-5G	FIXED, 4 PANEL	2	MATCH EXISTING DIMENSIONS (V.I.F.)
W-6	FIXED, 5 PANEL	7	MATCH EXISTING DIMENSIONS (V.I.F.)
W-7	FIXED	16	MATCH EXISTING DIMENSIONS (V.I.F.)
W-7A	FIXED	5	MATCH EXISTING DIMENSIONS (V.I.F.)
W-8C	FIXED	1	MATCH EXISTING DIMENSIONS (V.I.F.)





DOOR TYPES
SCALE: 1/4" = 1'-0"

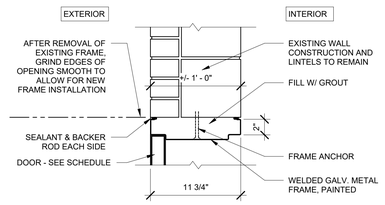
DOOR SCHEDULE

DOOR NO.	PANEL WIDTH	PANEL HEIGHT	PANEL MATERIAL	PANEL THICKNESS	PANEL TYPE	FRAME MATERIAL	FRAME TYPE	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	RATING	NOTES
GROUND FLOOR												
1	3' - 4"	6' - 8"	HM	0' - 1 3/4"	E	HM	-	H1	J1	-	-	
2	3' - 4"	6' - 8"	HM	0' - 1 3/4"	E	HM	-	H1	J1	-	-	
3	3' - 8"	7' - 0"	HM	0' - 1 3/4"	E	HM	-	H1	J1	-	-	
4	3' - 4"	6' - 8"	HM	0' - 1 3/4"	E	HM	-	H1	J1	-	-	
5	3' - 4"	6' - 8"	HM	0' - 1 3/4"	E	HM	-	H1	J1	-	-	
6	3' - 4"	6' - 8"	HM	0' - 1 3/4"	E	HM	-	H1	J1	-	-	
7	6' - 0"	6' - 8"	HM	0' - 1 3/4"	D	HM	-	H2	J2	-	-	
8	3' - 0"	7' - 0"	HM	0' - 1 3/4"	E	HM	-	H2	J2	-	-	
9	3' - 0"	7' - 0"	HM	0' - 1 3/4"	E	HM	-	H1	J1	-	-	
10	3' - 0"	7' - 0"	HM	0' - 1 3/4"	E	HM	-	H1	J1	-	-	
CO1	16' - 0"	23' - 8"	ALUM	0' - 0 3/4"	A	ALUM	-	H3	J3	-	-	OVERHEAD COILING DOOR
CO2	16' - 0"	20' - 8"	ALUM	0' - 0 3/4"	A	ALUM	-	H3	J3	-	-	OVERHEAD COILING DOOR
SO1	18' - 0"	16' - 4"	STL	0' - 1 1/2"	-	STL	-	H4	-J4	-	-	SECTIONAL OVERHEAD DOOR
SO2	10' - 0"	14' - 0"	STL	0' - 1 1/2"	-	STL	-	H4	J4	-	-	SECTIONAL OVERHEAD DOOR
SO3	14' - 0"	17' - 4"	STL	0' - 1 1/2"	-	STL	-	H4	J4	-	-	SECTIONAL OVERHEAD DOOR
SO4	8' - 0"	14' - 0"	STL	0' - 1 1/2"	-	STL	-	H4	J4	-	-	SECTIONAL OVERHEAD DOOR
LEVEL 2 - RESTROOM												
12	3' - 0"	7' - 0"	HM	0' - 1 3/4"	E	HM	-	H1	J1	-	-	
13	3' - 0"	7' - 0"	HM	0' - 1 3/4"	E	HM	-	H1	J1	-	-	DOOR FRAME TO REMAIN, REPLACE DOOR SLAB
T.O.S.												
14	2' - 6"	7' - 0"	HM	0' - 1 3/4"	E	HM	-	H2	J2	-	-	

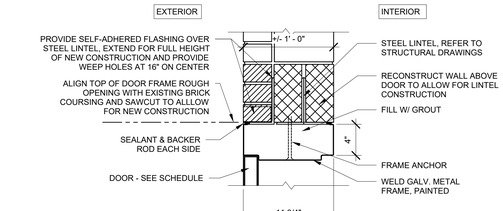
NOTE: DOORS 13 AND 14 ARE ON THE ROOF PLAN A151B

FINISH SCHEDULE

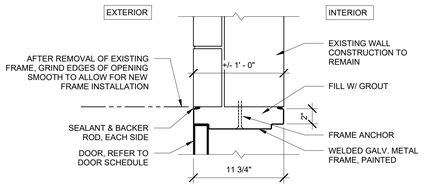
	INTERIOR COMPONENTS	REFER TO HAZARDOUS MATERIALS DRAWINGS AND SPECIFICATIONS	REMOVE EXISTING FINISHES AS DIRECTED IN HAZARDOUS MATERIAL DRAWINGS AND SPECIFICATIONS	WASH AND REMOVE FLAKING AND LOOSE PAINT	PREP AND PAINT
1	CONCRETE SLAB (EXISTING AND NEW)	X			
2	INTERIOR MASONRY WALLS (EXISTING)			X	
3	INTERIOR MASONRY WALLS CONSTRUCTED AS PART OF THIS PROJECT				X
4	STRUCTURAL STEEL (EXISTING)	X	X		X
5	STRUCTURAL STEEL CONSTRUCTED AS PART OF THIS PROJECT				X
6	CATWALKS, PLATFORMS, GUARDRAIL AND HANDRAIL ASSEMBLIES, KICK PLATES, STAIRS AND LADDERS (EXISTING)	X		X	X
7	CATWALKS, PLATFORMS, GUARDRAIL AND HANDRAIL ASSEMBLIES, KICK PLATES, STAIRS AND LADDERS CONSTRUCTED AS PART OF THIS PROJECT.				X
8	MISCELLANEOUS METAL ITEMS (BOLLARDS, LINTELS, ETC.) (EXISTING)	X		X	X
9	MISCELLANEOUS METAL ITEMS (BOLLARDS, LINTELS, ETC.) CONSTRUCTED AS PART OF THIS PROJECT				X
10	HOLLOW METAL DOORS AND FRAMES (EXISTING)	X	X		X
11	HOLLOW METAL DOORS AND FRAMES CONSTRUCTED AS PART OF THIS PROJECT				X
12	PRECAST CEILING CONCRETE PLANKS (EXISTING AND NEW)			X	
	EXTERIOR COMPONENTS	**REFER TO HAZARDOUS MATERIALS DRAWINGS AND SPECIFICATIONS**	**REMOVE EXISTING FINISHES AS DIRECTED IN HAZARDOUS MATERIAL DRAWINGS AND SPECIFICATIONS**	**WASH AND REMOVE FLAKING AND LOOSE PAINT**	**PREP AND PAINT**
E1	MASONRY (CMU) WALLS (EXISTING AND INFILLS CONSTRUCTED AS PART OF THIS PROJECT)	X		X	X
E2	MASONRY (BRICK) WALLS (EXISTING AND INFILLS CONSTRUCTED AS PART OF THIS PROJECT)	X		X	
E3	STRUCTURAL STEEL (EXISTING)	X	X		X
E4	STRUCTURAL STEEL CONSTRUCTED AS PART OF THIS PROJECT				X
E5	GUARDRAIL AND HANDRAIL ASSEMBLIES, KICK PLATES, STAIRS AND LADDERS (EXISTING)	X		X	X
E6	GUARDRAIL AND HANDRAIL ASSEMBLIES, KICK PLATES, STAIRS AND LADDERS CONSTRUCTED AS PART OF THIS PROJECT				X
E7	MISCELLANEOUS METAL ITEMS (BOLLARDS, LINTELS, ETC.) (EXISTING)	X		X	X
E8	MISCELLANEOUS METAL ITEMS (BOLLARDS, LINTELS, ETC.) CONSTRUCTED AS PART OF THIS PROJECT				X
E9	HOLLOW METAL DOORS AND FRAMES (EXISTING)	X	X		X
E10	HOLLOW METAL DOORS AND FRAMES CONSTRUCTED AS PART OF THIS PROJECT				X



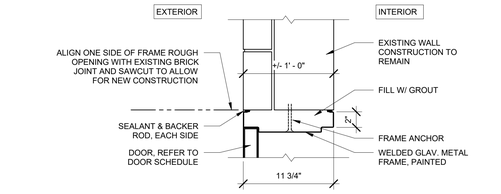
H1 HEAD AT EXISTING EXTERIOR OPENING (ADJUST TO 4" IF NEEDED)
SCALE: 1 1/2" = 1'-0"



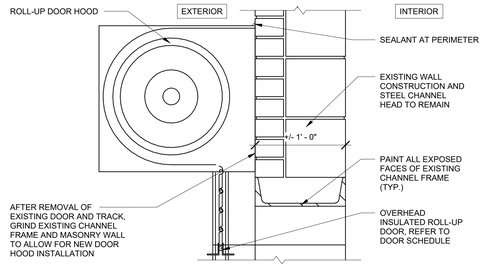
H2 HEAD AT NEW EXTERIOR OPENING
SCALE: 1 1/2" = 1'-0"



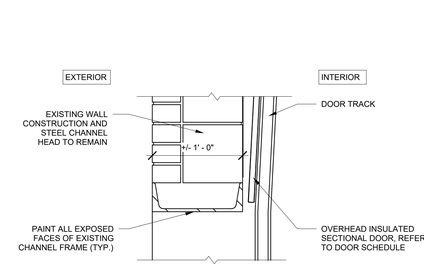
J1 JAMB AT EXISTING EXTERIOR DOOR OPENING
SCALE: 1 1/2" = 1'-0"



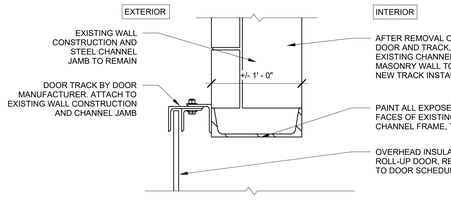
J2 JAMB AT NEW EXTERIOR DOOR OPENING
SCALE: 1 1/2" = 1'-0"



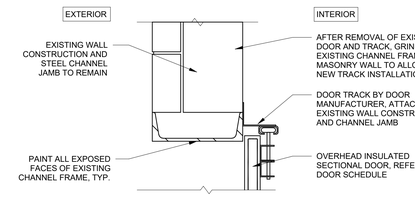
H3 HEAD AT EXISTING COILING DOOR OPENING
SCALE: 1 1/2" = 1'-0"



H4 HEAD AT EXISTING SECTIONAL DOOR OPENING
SCALE: 1 1/2" = 1'-0"



J3 JAMB AT EXISTING COILING DOOR OPENING
SCALE: 1 1/2" = 1'-0"



J4 JAMB AT EXISTING SECTIONAL DOOR OPENING
SCALE: 1 1/2" = 1'-0"

BUDC
Buffalo Urban Development Corporation
Hon. Christopher P. Scanlon, Chairman

BUFFALO URBAN DEVELOPMENT CORPORATION
631 NORTHLAND AVE.
BUFFALO, NY 14211

INDUSTRIAL MANUFACTURING BUILDING

ISSUED FOR BID

wendel
237 Main Street, Suite 500
Buffalo, NY 14202
www.wendelcompanies.com
p:716.688.0766 tf:877.293.6335
Wendel WD Architecture, Engineering, Surveying and Landscape Architecture, P.C.

BAC [A+P]® Tri-Main Center
2495 Main Street, Suite 402
Buffalo, NY 14214
P.716.931.5827
Barbara A. Campagna/Architecture + Planning, PLLC

EAR ENGINEERING & LAND SURVEYING, P.C.
574 Main Street, Suite 205
East Aurora, NY 14052
P.716.805.1526

NOTE:
THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF WENDEL WD ARCHITECTURE, ENGINEERING, SURVEYING AND LANDSCAPE ARCHITECTURE, P.C. AND IS NOT TO BE USED IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF WENDEL. UNAUTHORIZED ALTERATION OR ADDITION TO ANY SURVEY, DRAWING, DESIGN, SPECIFICATION, PLAN OR REPORT IS A VIOLATION OF SECTION 7209, PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

NO.	REVISIONS	DATE
02	PRE-BID ADDENDUM #1	10/10/2025
01	ISSUED FOR PERMIT	10/01/2025
00	ISSUED FOR BID	10/01/2025

DWG. TITLE

DOOR, WINDOW & FINISH SCHEDULE

0 1" 2"
GENERIC SCALE BAR
SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING. IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY.

DATE	10/01/2025
SCALE	As indicated
DWN.	Author CHK. BS1
PROJ. No.	432607
DWG. No.	

A900

CAPITAL GRANT

This **GRANT DISBURSEMENT AGREEMENT ("Agreement")** includes all exhibits and attachments hereto and is made on the terms and by the parties listed below and relates to the Project described below:

NEW YORK STATE URBAN DEVELOPMENT CORPORATION d/b/a EMPIRE STATE DEVELOPMENT ("ESD" or "GRANTOR"):	95 Perry Street, Suite 500 Buffalo, New York 14203-3030 Contact: Jean Williams, Sr. Director, WNY Projects Phone: (716) 846-8243 E-mail: jean.williams@esd.ny.gov

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THE GRANTEE:	Buffalo Urban Development Corporation 95 Perry Street, Suite 404 Buffalo, NY 14203 Contact: Ms. Brandye Merriweather, President Phone: (716) 362-8373 E-mail: bmerriweather@buffalourbandevelopment.com Federal Taxpayer ID#: 22-2324226

PROJECT NAME:	Northland Corridor Redevelopment Phase 3 Capital
PROJECT LOCATIONS:	The Northland Corridor Redevelopment Area (AKA "Northland Campus") involves a ~35-acre area bounded by East Delavan Avenue to the north, Fillmore Avenue to the west, the former Beltline (now CSX) Railroad to the south, and Grider Street to the east.
PROJECT NUMBER:	135,711
GRANT AMOUNT:	$55,000,000
FUNDING SOURCE:	RECAP-Regional Economic & Community Assistance Program

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ESD APPROVAL DATE:	April 20, 2023
PACB APPROVAL DATE:	May 17, 2023
EXPIRATION DATE:	December 31, 2029

TERMS AND CONDITIONS

1. The Project

The Grantee shall:

(a) complete the project as set forth in the ESD General Project Plan attached hereto as Exhibit A (the "Project").

(b) comply with the design and construction requirements attached hereto as Exhibit B.

2. Employment Goals & Reporting

(a) The Grantee represents and warrants that it currently employs not less than the Baseline Employment (as hereinafter defined) set forth in Exhibit C to this Agreement and that it shall (i) achieve the employment goals as set forth in Exhibit C by retaining existing or hiring new Full-time Permanent Employees or (ii) repay a portion of the Grant as set forth in Exhibit C.

(b) For purposes of this Agreement, a Full-time Permanent Employee shall mean (i) a full-time, permanent, private-sector employee on the Grantee's payroll, who has worked at the Project Location for a minimum of thirty-five hours per week for not less than four consecutive weeks and who is entitled to receive the usual and customary fringe benefits extended by Grantee to other employees with comparable rank and duties; or (ii) two part-time, permanent, private-sector employees on Grantee's payroll, who have worked at the Project Location for a combined minimum of thirty-five hours per week for not less than four consecutive weeks and who are entitled to receive the usual and customary fringe benefits extended by Grantee to other employees with comparable rank and duties. Baseline Employment shall mean the number of Full-time Permanent Employees set forth in Exhibit C.

(c) Grantee shall submit, by February 1 of each year during the term of this Agreement, the Employment Reporting Form attached hereto as Exhibit H, indicating the average number of Grantee's Full-time Permanent Employees for the 12 month period ending as of December 31 of the prior year. Full-time Permanent Employee Count, for each calendar year during the term of this Agreement, shall mean the greater of (i) the average number of Full-time Permanent Employees for the prior calendar year, computed by adding the number of Full-time Permanent Employees as of the Grantee's last payroll date in the months of March, June, September and December and dividing that sum by 4, or (ii) the number of Full-time Permanent Employees as of the Grantee's last payroll date in December of such year.

3. Conditions Precedent to Disbursement of the Grant

No grant funds shall be disbursed unless the Grantee is in compliance with the Terms and Conditions of this Agreement, including, but not limited to, Exhibit E (Disbursement Terms), and the following conditions have been satisfied (and as to 3(d) and 3(e) below continue to be satisfied prior to each disbursement):

(a) If the Grant Amount exceeds $100,000, or if, as described in Exhibit A, it is expected that there will be additional grants that in the aggregate exceed $100,000, ESD has received an opinion of Grantee's counsel, in substantially the form appended to this Agreement as Exhibit D.

(b) Any necessary approval has been issued by the Director of the Budget of the State of New York, and the Grant funds have been received by ESD.

(c) ESD has received a commitment fee, plus out-of-pocket expenses incurred by ESD in the making of the Grant, if any, as set forth in Exhibit E.

(d) There have been no materially adverse changes in the financial condition of the Grantee since the date of submission of its application to ESD.

(e) The Grantee employs at least the Baseline Employment as evidenced by the Employment Reporting Form attached hereto as Exhibit H.

4. Disbursement and Recapture Terms

Subject to the terms and conditions contained in this Agreement, ESD shall disburse the Grant to the Grantee as follows:

(a) ESD shall reimburse the Grantee for Project expenditures incurred by the Grantee as set forth in Exhibit E to this Agreement. Disbursements will be made upon submittal to ESD of a Payment Requisition Form, together with such supporting documentation as ESD may require, in the form attached to this Agreement as Exhibit F and its attachments, and Exhibit H.

(b) In no event will ESD make any payment which would cause ESD's aggregate disbursements to exceed the Grant Amount.

(c) The Grant, or a portion thereof, may be subject to recapture by ESD as provided in Exhibit C.

5. Non Discrimination and Contractor & Supplier Diversity

The Grantee will comply with ESD's Non-Discrimination and Contractor & Supplier Diversity policies set forth in Exhibit G to this Agreement.

6. No Liability of ESD

ESD shall not in any event whatsoever be liable for any injury or damage, cost or expense of any nature whatsoever that occurs as a result of or in any way in connection with the Project and the Grantee hereby agrees to defend, indemnify and hold harmless ESD, the State and their respective agents, officers, employees and directors (collectively, the "Indemnitees") from and against any and all such liability other than that caused by the gross negligence or the willful misconduct of the Indemnitees.

7. Responsibility Provisions

(a) The Grantee shall at all times during the Agreement term remain responsible. The Grantee agrees, if requested by the President and Chief Executive Officer of ESD or his or her designee, to present evidence of its continuing legal authority to do business in New York State, integrity, experience, ability, prior performance, and organizational and financial capacity.

(b) The President and Chief Executive Officer of ESD or his or her designee, in his or her sole discretion, reserves the right to suspend any or all activities under this Agreement, at any time, when he or she discovers information that calls into question the responsibility of the Grantee. In the event of such suspension, the Grantee will be given written notice outlining the particulars of such suspension. Upon issuance of such notice, the Grantee must comply with the terms of the suspension order. Activities under this Agreement may resume at such time as the President and Chief Executive Officer of ESD or his or her designee issues a written notice authorizing a resumption of performance under this Agreement.

(c) Upon written notice to the Grantee, and a reasonable opportunity to be heard with appropriate ESD officials or staff, this Agreement may be terminated by the President and Chief Executive Officer of ESD or his or her designee at the Grantee's expense where the Grantee is determined by the President and Chief Executive Officer of ESD or his or her designee to be non-responsible. In such event, the President and Chief Executive Officer of ESD or his or her designee may complete the requirements of this Agreement in any manner he or she deem advisable and pursue available legal or equitable remedies for breach.

8. Representations, Warranties and Covenants

The Grantee represents, warrants and covenants that:

(a) It has full power and authority to execute and deliver this Agreement and to perform its obligations hereunder.

(b) This Agreement was duly authorized, executed and delivered by the Grantee and is binding and enforceable against the Grantee in accordance with its terms.

(c) It is a duly organized corporation, validly existing and in good standing under the laws of the State of its incorporation, has the corporate power and authority to own its assets and to transact the business in which it is now engaged or proposed to be engaged and is duly qualified as a foreign corporation and in good standing under the laws of each other jurisdiction in which such qualification is required and shall maintain its corporate existence in good standing in each such jurisdiction.

(d) There are no actions, suits or proceedings or, to the knowledge of Grantee, threatened against, or affecting Grantee before any court, governmental entity or arbitrator, which may, in any one case or in the aggregate, materially adversely affect the financial condition, operations, properties or business of the Grantee, except as may have been disclosed in writing to ESD.

(e) Grantee is in compliance and shall continue to comply in all material respects with all material applicable laws, rules, regulations and orders.

(f) The information contained in the application submitted by the Grantee in connection with the project and the Grant, as such application may have been amended or supplemented (the "Application"), is incorporated herein by reference in its entirety. In the event of an inconsistency between the descriptions, conditions, and terms of this Agreement and those contained in the Application, the provisions of this Agreement shall govern. The Grantee hereby acknowledges that ESD has relied on the statements and representations made by the Grantee in the Application in making the Grant. The Grantee hereby represents and warrants that it has made no material misstatement or omission of fact in the Application or otherwise in connection with the Grant and, except as otherwise disclosed in writing to ESD, there has been no adverse material change in the financial condition of Grantee from the date of submission of the Application to the date hereof and that all other the information contained in the Application continues on the date hereof to be materially correct and complete.

(g) The Grantee covenants that it will neither hold itself out as, nor claim to be an officer, employee, agent or representative of ESD or the State by reason hereof, and that it will not by reason thereof, make any claim, demand or application for any right or privilege applicable to an officer, employee, agent or representative of ESD or the

State, including without limitation, worker's compensation coverage, unemployment insurance benefits, social security coverage or retirement membership or credit.

(h) Neither the Grantee nor any of the members of its Board of Directors or other governing body or its employees have given anything of value to influence any official act or the judgment of any person in the award of the Grant or the performance of any of the terms of this Agreement.

(i) It shall maintain business operations at the Project Location for the term of this Agreement.

(j) The Grant shall be used solely for Project expenses in accordance with the terms and conditions of this Agreement.

(k) The Grantee is solely responsible and has sufficient funding for all Project costs in excess of the Grant.

(l) Grantee will use ESD grant funds, and submit payment requisitions, exclusively for eligible expenses related to capital works or purposes in accordance with IRS rules and regulations relating to ESD's bonds and in accordance with the New York Debt Reform Act. Grantee acknowledges that grant funds must be used solely for authorized capital purposes and not for operating expenses or other working capital items or non-capital purposes, irrespective of whether the funds are still used for the benefit of the Project. Grantee acknowledges that the consequences of breaching this covenant could result in violations of state law and/or large bond issuances being treated as taxable instead of tax exempt for federal and state tax purposes, loss of certain federal subsidies to the state, adverse ratings changes for such bonds, and disproportionate negative financial consequences to the state and bondholders. Grantee recognizes its financial obligations, risks and liabilities for breach of this covenant. ESD may, from time to time, request information from Grantee to confirm its compliance with this covenant and Grantee acknowledges its obligation under Section 9 (a) (ii) of the GDA to provide information upon request to ESD.

(m) The Grant shall not be used in any manner for any of the following purposes:

(i) political activities of any kind or nature, including, but not limited to, furthering the election or defeat of any candidate for public, political or party office, or for providing a forum for such candidate activity to promote the passage, defeat, or repeal of any proposed or enacted legislation;

(ii) religious worship, instruction or proselytizing as part of, or in connection with, the performance of this Agreement;

(iii) payments to any firm, company, association, corporation or organization

in which a member of the Grantee's Board of Directors or other governing body, or any officer or employee of the Grantee, or a member of the immediate family of any member of the Grantee's Board of Directors or other governing body, officer, or employee of the Grantee has any ownership, control or financial interest. For purposes of this paragraph, "ownership" means ownership, directly or indirectly, of more than five (5) percent of the assets, stock, bonds or other dividend or interest bearing securities; and "control" means serving as a member of the board of directors or other governing body, or as an officer in any of the above; and

(iv) payment to any member of Grantee's Board of Directors or other governing body of any fee, salary or stipend for employment or services, except as may be expressly provided for in this Agreement.

(n) Grantee is in compliance and shall continue to comply with Section 7 of this Agreement.

9. Default and Remedies

(a) Each of the following shall constitute a default by the Grantee under this Agreement:

(i) Failure to perform or observe any obligation or covenant of the Grantee contained herein, other than an employment default as set forth in (iv) below, to the reasonable satisfaction of ESD and within the time frames established under this Agreement.

(ii) Failure to comply with any request for information reasonably made by ESD to determine compliance by the Grantee with the terms of this Agreement or otherwise reasonably requested by ESD in connection with the Grant.

(iii) The making by the Grantee of any false statement or the omission by the Grantee to state any material fact in or in connection with this Agreement or the Grant.

(iv) Failure of the Grantee, for any time period, to meet the minimum employment goals required by Exhibit C.

(v) A default beyond any applicable grace period by the Grantee, or any entity which Grantee directly or indirectly controls, is controlled by, or is under common control with, under any other agreement with ESD.

(vi) Any manifestation, on the part of the Grantee, of an intention either: (x) to terminate and/or (y) to restructure, under the terms of any bankruptcy or insolvency statute or law, its business at the Project Location. This includes, without limitation, the announced or actual cessation of business activities at

the Project Location, the initiation of proceedings under any dissolution statute, or the execution of an assignment for the benefit of creditors, or the solicitation of any composition and/or arrangement with creditors, or the issuance of "closing" or "termination" notices to employees under any state or federal statute, or the filing of any voluntary petition under any chapter of the United States Bankruptcy Code, or the failure by the Grantee to obtain the dismissal, within sixty (60) days of filing, of any involuntary proceeding brought under any chapter of the United States Bankruptcy Code.

(vii) If the number of the Grantee's Full-Time Permanent Employees, as that term is defined in this Agreement, that are situated at the Project Location as of the Grantee's last payroll date on or prior to the end of any quarter (with the quarters being those the quarterly dates of March 31, June 30, September 30 and December 31, as set forth in the Report of Employment that is annexed as Exhibit H to this Agreement) is less than fifty percent (50%) of the number of Full Time-Permanent Employees, situated at the Project Location, required in accordance with the Employment Goals that are to be achieved as of the next Reporting Date, as specified in Exhibit C.

(viii) Failure by the Grantee, for any period of time, to comply with Section 7 of this Agreement.

(b) Upon the serving of notice to the Grantee of the occurrence of a default (which notice shall specify the nature of the default), ESD shall have the right to terminate this Agreement, provided however, that if the default is pursuant to paragraph 9(a)(i) or 9(a)(ii), no default shall be deemed to have occurred if Grantee cures such default within ten (10) days of notice of default from ESD, or if the default pursuant to paragraph 9(a)(i) or 9(a)(ii) cannot be reasonably cured within such ten day period, Grantee commences to cure such default within the ten day cure period and cures the default within ninety (90) days thereafter, provided further that ESD shall not be obligated to make any disbursements during any such cure period. Defaults occurring under the terms and provisions of paragraph 9(a)(iii), 9(a)(iv), 9(a)(v), 9(a)(vi) and 9(a)(vii) are not subject to the cure provisions provided herein.

(c) Upon termination of this Agreement, ESD may (i) withhold any Grant proceeds not yet disbursed and (ii) require repayment of Grant proceeds disbursed to the Grantee in accordance with Exhibit C of this Agreement. Notwithstanding the foregoing, if ESD determines that any Grant proceeds had previously been released based upon fraudulent representations or other willful misconduct, ESD may require repayment of all funds and may refer the matter to the appropriate authorities for prosecution. ESD shall be entitled to exercise any other rights and seek any other remedies provided by law.

10. Term

The term of this Agreement shall commence on the date hereof and expire on the Expiration Date, as set forth on the first page of this Agreement.

11. Books and Records; Project Audit

(a) The Grantee will maintain accurate books and records concerning the project for the term of this Agreement and for three (3) years from the expiration or earlier termination of this Agreement and will make those books and records available to ESD, its agents, officers and employees during Grantee's business hours upon reasonable request.

(b) ESD shall have the right, upon reasonable notice, to conduct, or cause to be conducted, one or more audits, including field inspections, of the Grantee to assure that the Grantee is in compliance with this Agreement. This right to audit shall continue for three (3) years following the expiration or earlier termination of this Agreement.

12. Maintenance of Insurance

Grantee shall maintain in full force and effect insurance, including, but not limited to, the insurance described hereafter, in such amounts and covering such risks as Grantor may require from time to time.

(a) The Grantee shall keep the buildings at the Project Location and the building equipment insured against: (i) loss by fire, (ii) additional perils customarily covered under an all-risk policy and (iii) flood hazard, if the Project Location is located in an area identified by the Secretary of Housing and Urban Development as an area having special flood hazards and in which flood insurance has been made available under the National Flood Insurance Act of 1968, as amended. The insurance required in this paragraph (a) shall provide coverage for an amount not less than the full replacement value of the buildings at the Project Location and the building equipment, or such other amount as the Grantor may reasonably require, provided that (i) the amount of insurance coverage shall be in an amount sufficient to satisfy, at all times, any co-insurance requirements, and (ii) the amount of any flood hazard insurance shall not exceed the maximum amount of coverage available under the National Flood Insurance Act.

(b) When and to the extent required by the Grantor, the Grantee shall maintain in full force and effect insurance against (i) loss of rental income, (ii) loss of business income, (iii) damages to boiler, and (iv) any other risk as is customary in the industry of the Grantee. The insurance required in this paragraph (b) shall provide coverage in an amount satisfactory to Grantor.

(c) The Grantee shall maintain Commercial General Liability Insurance providing both bodily injury (including death) and property damage insurance in a limit not less than One Million Dollars ($1,000,000) per occurrence, Two Million Dollars ($2,000,000) aggregate and Three Million Dollars ($3,000,000) umbrella. In addition, if the grant contemplates the purchase, construction or renovation of any buildings or equipment, the Recipient shall keep the buildings at the Project Location and the building equipment insured against: (i) loss by fire, (ii) additional perils customarily covered under an all-risk policy and (iii) flood hazard, if the Project Location is located in an area identified by the Secretary of Housing and Urban Development as an area having special flood hazards and in which flood insurance has been made available under the National Flood Insurance Act of 1968, as amended.

(d) All insurance required in this Section shall be issued by companies authorized to do business in the State of New York, satisfactory to Grantor pursuant to policies satisfactory to Grantor in form and substance. Without limiting the generality of the foregoing, the policies of insurance required hereby shall provide for thirty (30) days, or ten (10) days for non-payment, prior written notice of cancellation to Grantor.

(e) The Grantee shall give prompt written notice to the Grantor in the event of substantial damage to the Project Location by reason of fire or other hazard or casualty.

(f) Notwithstanding the provisions of Subdivision 4 of Section 254 of the Real Property Law, the Grantor shall be entitled to retain and apply the proceeds of any insurance required hereby to the payment of any obligations or, in the sole discretion of the Grantor, apply any or all such proceeds to the cost of restoration of the Project Location, in which case the Grantee shall proceed with reasonable diligence to repair, replace or rebuild the Project Location to substantially their condition prior to such damage in full compliance with all legal requirements.

(g) The Grantee shall provide the Grantor with copies of all certificates for the required insurance coverages in form and substance satisfactory to the Grantor. In addition, the Grantee shall provide the Grantor with copies of renewal certificates or temporary binders in the event renewal policies have not been issued, in a timely manner. The Grantee must, in any event, provide Grantor with satisfactory confirmation of renewal coverage by the renewal date.

(h) In the event that the Grantee fails to maintain the insurance required hereby, the Grantor may obtain such insurance and pay the premiums therefor and the Grantee shall, on demand, reimburse the Grantor for any insurance premiums paid, together with interest thereon computed at the highest rate per annum allowable under New York State law.

(i) The Grantee will not take any action, or permit any condition to exist, with respect to the Project Location which may, in any manner, partially or wholly invalidate the insurance on the Project Location required hereby.

13. Survival of Provisions

It is agreed that: (a) the provisions of Sections 6, 8(g), (j) and (l) and 9, 11, 12, 13, 14, 15, 16, 17, 18, 21 and 22 (except insofar as any of the aforesaid Sections have been waived in accordance with the terms of Exhibit I to this Agreement) shall survive the expiration or early termination of this Agreement; and (b) such expiration or early termination shall not serve to limit, alter or modify any of the Grantee's obligations or responsibilities under the aforesaid Sections, and/or ESD's rights under such Sections, referenced in subsection (a) of this Section 13 of this Agreement. It is further agreed, moreover, that notwithstanding the expiration or early termination of this Agreement, ESD shall nevertheless retain the right to pursue, through and until the expiration of any applicable period of limitations established under the statutory or common law of the State of New York, any claim or claims arising from any Section of this Agreement, including but not limited to the above referenced Sections 6, 8(g), (j) and (l) and 9, 11, 12, 13, 14, 15, 16, 17, 18, 21 and 22 of this Agreement, and the expiration or early termination of this Agreement shall not constitute a defense to any such timely filed claim or cause of action that is asserted on ESD's behalf.

14. Notices

(a) All notices, demands, requests or other communications permitted or required hereunder shall be in writing and shall be transmitted either:
   (i) via certified or registered United States mail, return receipt requested;
   (ii) by facsimile transmission;
   (iii) by personal delivery;
   (iv) by expedited delivery service; or
   (v) by e-mail.

Such notices shall be addressed as follows or to such different addresses as the parties may from time-to-time designate:

Empire State Development
Name: Jean Williams
Title: Senior Director, WNY Projects
Address: 95 Perry Street, Suite 500, Buffalo, NY 14203-3030
Telephone Number: (716) 846-8243
E-Mail Address: jean.williams@esd.ny.gov

With a copy to:

Title: General Counsel
Address: 633 Third Avenue, 34th Floor, New York, NY 10017
Telephone Number: (212) 803-3750
Facsimile Number: (212) 803-3975

Buffalo Urban Development Corporation
Name: Ms. Brandye Merriweather
Title: President
Address: 95 Perry Street, Suite 404, Buffalo, NY 14203
Telephone Number: (716) 362-8373
E-Mail Address: bmerriweather@buffalourbandevelopment.com

(b) Any such notice shall be deemed to have been given either at the time of personal delivery or, in the case of expedited delivery service or certified or registered United States mail, as of the date of mailing to the address provided herein, or in the case of facsimile transmission or email, upon receipt of a record, by the sender, that such a transmission has been completed.

(c) The parties may, from time to time, specify any new or different address in the United States as their address for purpose of receiving notice under this Agreement by giving fifteen (15) days written notice to the other party sent in accordance herewith. The parties agree to mutually designate individuals as their respective representatives for the purposes of receiving notices under this Agreement. Additional individuals may be designated in writing by the parties for purposes of implementation and administration/billing, resolving issues and problems and/or for dispute resolution.

15. No Assignment

The Grantee may not assign or transfer this Agreement or any of its rights hereunder.

16. No Waiver

No waiver of any ESD's rights arising under this Agreement, or any other source, can occur unless such waiver shall be in writing and signed by ESD and such written document manifests a clear and unequivocal intent by ESD to waive its contractual or other legal rights. The term "waiver" as used herein is a term of art as used in the legal profession. ESD may not be estopped from asserting any of its legal rights, including but not limited to its rights under this agreement, unless ESD has signed a written document that clearly and unequivocally states that the other party may detrimentally rely upon the terms of such written document. Absent such written document, there shall be no estoppel against ESD and the other parties' alleged detrimental reliance shall be deemed to be unreasonable. The term "estoppel" is used herein is a term of art as used in the legal profession.

17. Integration/Modification

This Agreement contains the entire agreement of the parties with respect to the subject matter hereof and supersedes all prior oral or written agreements or statements relating to such subject matter. In addition, this Agreement may be modified only by a written instrument executed by the party against whom enforcement of such modification is sought.

18. Governing Law

This Agreement shall be governed by and construed in accordance with the laws of the State of New York. This Agreement shall be construed without the aid of any presumption or other rule of law regarding construction against the party drafting this Agreement or any part of it. In case any one or more of the provisions of this Agreement shall for any reason be held to be invalid, illegal or unenforceable in any respect, such invalidity, illegality or unenforceability shall not affect any other provision hereof and this Agreement shall be construed as if such provision(s) had never been contained herein. In the event of a conflict between the Directors' materials attached hereto as Exhibit A and any other term or condition of this Agreement, then the term or condition of this Agreement shall govern.

19. Confidentiality of Information

Information contained in reports made to ESD or otherwise obtained by ESD relating to trade secrets, operations and commercial or financial information, including but not limited to the nature, amount or source of income, profits, losses, financial condition, marketing plans, manufacturing processes, production costs, productivity rates, or customer lists, provided that such information is clearly marked "Confidential" by the Grantee, will be kept confidential by ESD, to the extent such information is determined by ESD to be exempt from public disclosure under the Freedom of Information Law and not otherwise required by law to be disclosed. Notwithstanding the foregoing, ESD will not be liable for any information disclosed, in ESD's sole discretion, pursuant to the Freedom of Information Law or other applicable law, or which ESD is required to disclose pursuant to legal process.

20. Special Provisions

The Grantee shall comply with the special provisions, if any, set forth in Exhibit I.

21. Litigation Costs

The Grantee shall pay, in any action or proceeding that is commenced to enforce and/or involves the enforcement of the terms and conditions of this Agreement, all of ESD's costs including, without limitation, ESD's attorneys' fees. The Grantee shall also pay any and all of ESD's collection costs including, without limitation, its attorneys' fees.

22. Waiver

The Grantee knowingly and expressly waives the right to a trial by jury and the right to interpose any counterclaims in any action brought by ESD under the terms of this Agreement.

Northland Corridor Redevelopment Phase 3 Capital, Project Number 135,711

This agreement is entered into as of the latest date written below:

NEW YORK STATE URBAN DEVELOPMENT CORPORATION
d/b/a EMPIRE STATE DEVELOPMENT

(Signature) Glendon McLeary, Vice President and Director, Loans and Grants

September 19, 2023
(date)

Buffalo Urban Development Corporation

Brandye Merriweather
(Signature)

Brandye Merriweather, BUDC President
(Printed name and title)

11/2/2023
(date)

Rev. 3/24/2023

ESD CAPITAL GRANT DISBURSEMENT AGREEMENT

EXHIBITS

EXHIBIT A	General Project Plan
EXHIBIT B	Design & Construction Requirements
EXHIBIT C	Recapture Terms
EXHIBIT D	Opinion of Counsel
EXHIBIT E	Disbursement Terms
EXHIBIT F	Payment Requisition Form
EXHIBIT F-1	Grant Utilization Request Form
EXHIBIT F-2	Financial Condition Documentation
EXHIBIT F-3	Project Cost Documentation
EXHIBIT F-4	Project Cost Affidavit
EXHIBIT G	Non-Discrimination and Contractor & Supplier Diversity – Requirements and Procedures
EXHIBIT G-1	M/WBE Participation / Equal Opportunity Policy Statement
EXHIBIT G-2	Staffing Plan
EXHIBIT G-3	Workforce Employment Utilization Report
EXHIBIT G-4	M/WBE Utilization Plan
EXHIBIT G-5	Waiver Request Form
EXHIBIT G-6	M/WBE Contractor Compliance and Payment Report
EXHIBIT H	Employment Reporting Form
EXHIBIT I	Special Provisions

EXHIBIT A: GENERAL PROJECT PLAN

See Materials Attached

NEW YORK STATE OF OPPORTUNITY. | Empire State Development

FOR CONSIDERATION
April 20, 2023

TO:	The Directors
FROM:	Hope Knight
SUBJECT:	Buffalo (Western New York Region – Erie County) – Northland Corridor Redevelopment Phase 3 Capital – Regional Economic and Community Assistance Program (Capital Grant)
REQUEST FOR:	Findings and Determinations Pursuant to Section 10(g) of the Act; Authorization to Adopt the Proposed General Project Plan for the Purpose of Making a Grant; Authorization to Make a Grant and to Take Related Actions

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ESD Directors' Summary

The Buffalo Urban Development Corporation ("BUDC") is the City of Buffalo's local development corporation, and focuses primarily on actions to acquire, remediate, rehabilitate and/or redevelop distressed building/land within the city. In 2014, ESD and BUDC announced an ambitious partnership to acquire and rehabilitate/redevelop a 35-acre cluster of abandoned and underutilized industrial properties in East Buffalo along Northland Avenue, designated as the "Northland Corridor Redevelopment Area". After two previous phases of work with ESD funds, the area, now known as the "Northland Campus," is home to a number of major anchor tenants, including the Northland Workforce Training Center, Buffalo Manufacturing Works, and several of private manufacturing and commercial companies.

On April 25, 2022, Governor Kathy Hochul announced that $55 million would be made available for Phase 3 of rehabilitation and redevelopment on the Northland Campus. This will involve a multi-year effort involving seven subprojects for the rehabilitation and/or redevelopment of the Campus. This commitment ultimately leveraged a $14.4 million federal grant awarded in September 2022 under the U.S. Economic Development Administration's Build Back Better Regional Challenge. The investment of $55 million in state funds is anticipated to result in almost 250,000 SF of new commercial, manufacturing, and community space and completion of the full complement of components for the campus microgrid. This will further strengthen the campus as a hub for advanced manufacturing and clean energy training and innovation on Buffalo's East Side. The Directors are asked to adopt a general project plan and authorize associated actions to formally make available the previously announced $55 million funding toward a total of $72,975,000 in project sources to implement this multi-year project.

General Project Plan

I. Project Summary

Grantee:	Buffalo Urban Development Corporation ("BUDC" or the "Grantee")
ESD* Investment:	A grant of up to $55,000,000 to be used toward planning, design, construction administration, construction and purchase/installation of equipment for the rehabilitation and new construction of multiple building and facilities in the Northland Corridor Redevelopment Area (the "Project") * The New York State Urban Development Corporation doing business as Empire State Development ("ESD" or the "Corporation")
Project Location:	The Northland Corridor Redevelopment Area (AKA "Northland Campus") involves a ~35-acre area bounded by East Delavan Avenue to the north, Fillmore Avenue to the west, the former Beltline (now CSX) Railroad to the south, and Grider Street to the east. This Project will build upon two prior phases of investment on the campus, focusing on rehabilitation of existing buildings/sites on the campus, select demolition and redevelopment, upgrade of substation facilities and development of features for a campus microgrid system, stabilization/enhancement and interpretation of remnant industrial features as part of the campus branding/identity, and associated infrastructure/parking facilities.
Proposed Project:	Phase 3 of rehabilitation and redevelopment of buildings, properties and infrastructure facilities at the Northland Campus, along with the full implementation of a campus Microgrid system, and stabilization/ branding of iconic campus features like the water tower and a major chimney and boiler house
Project Type:	Economic growth investment
Regional Council:	The redevelopment of the Northland Campus continues to be a signature initiative that is fully consistent with the Western New York Regional Economic Development Council ("WNYREDC") Regional Strategic Plan to promote smart growth and economic development in the advanced manufacturing and clean energy sectors.

II. Project Costs and Financing Sources

Project Costs* (by Subproject):	Amount
1) EDA Build Back Better Regional Challenge Subproject:	
▪ Rehabilitation/reconstruction of 541 E. Delavan Ave.	
▪ Rehabilitation of 612 Northland Ave., Building "B"	
▪ Corridor Parking & Infrastructure Improvements	
▪ Full implementation of Campus Microgrid system	
Design & Soft Costs	$2,260,000
541 E. Delavan Ave. Construction	$6,590,000
612 Northland Ave. Construction	$300,000
Campus Parking & Infrastructure Construction	$350,000
Microgrid Construction	$8,500,000
Subtotal	**$18,000,000**
2) 683/631 Northland Ave Subproject	
(Historic Rehab of Niagara Tool & Machine Works Complex):	
▪ Cost recovery for overruns associated with tax credit syndication for reuse of 683 Northland Avenue	
▪ Historic rehabilitation/reuse of 631 Northland Avenue	
683 Northland Ave Cost Recovery	$2,500,000
631 Northland Ave. Design & Soft Costs	$1,500,000
631 Northland Ave. Sitework/Environmental Clean-up	$8,800,000
631 Northland Ave. Construction	$2,800,000
Subtotal	**$14,025,000**
3) 777 Northland Ave Subproject	
▪ Select demolition & stabilization of remaining space	
▪ New construction of industrial space	
Design & Soft Costs	$1,875,000
777 Northland Ave. Sitework/Environmental Clean-up	$575,000
777 Northland Ave. Select Demolition	$2,100,000
777 Northland Ave. Construction	$10,450,000
Subtotal	**$15,000,000**

4) **537 E. Delavan Subproject - Houdaille Admin. Building**
   - Historic rehabilitation/reuse of historic office building

Design & Soft Costs	$690,000
537 E. Delavan Ave. Construction	$4,610,000
Subtotal	**$5,300,000**

5) **741 Northland Ave Subproject**
   - Select demolition
   - New construction of industrial space
   - Rehabilitation, painting, and branding of water tower

Design & Soft Costs	$2,045,000
741 Northland Ave. Sitework/Environmental Clean-up	$700,000
741 Northland Ave. Select Demolition	$2,800,000
Water Tower Rehab	$150,000
741 Northland Ave. New Construction	$9,330,000
741 Northland Contingency & Escalation	$3,000,000
Subtotal	**$18,025,000**

6) **Houdaille Chimney & Boiler House Subproject**
   - Rehabilitation, painting, and branding of former plant chimney and re-purposing of associated small boiler house

Design & Soft Costs	$158,000
Houdaille Chimney & Boiler House Construction	$1,292,000
Subtotal	**$1,450,000**

7) **Campuswide Tenant Improvements**
   - Select tenant space fit-out efforts

Design & Soft Costs	$150,000
Select Tenant Fit out Construction	$1,025,000
Subtotal	**$1,175,000**

GRAND TOTAL - PROJECT COSTS	**$72,975,000**

*Note: Unexpended funds from one subproject category may be re-allocated to any other categories under the budget, with ESD approval.

Financing Sources	Amount	Percent
ESD – Grant	$55,000,000	75%
U.S. EDA Build Back Better Regional Challenge Grant	$14,400,000	20%
BUDC Solar Microgrid Capital Grant (ESD)*	$1,800,000	2.5%
BUDC Restore NY Round V Grant (ESD)*	$1,475,000	2%
National Grid Economic Development Grant	$300,000	0.5%
TOTAL PROJECT FINANCING	**$72,975,000**	**100%**

* Grant approved in separate action by ESD Directors.

III. Project Description

A. Grantee

Industry: Urban redevelopment

Grantee History: BUDC is the City of Buffalo-sponsored local development corporation, established in 1978 under the name Development Downtown, Inc. to act as a financing vehicle for downtown Buffalo development projects using Urban Development Action Grants. In 2004, Development Downtown, Inc. became BUDC, reclaiming distressed land and buildings for future development. BUDC has been serving as developer for the Northland Corridor Redevelopment Area, under agreement with ESD, since 2014.

Ownership: BUDC is a not-for-profit agency.

Size: BUDC is managed by a nineteen-member board of directors which are made up of public and private sector individuals that serve on five committees to assist BUDC in conducting day-to-day business. BUDC has three employees.

ESD Involvement: The Northland Corridor Redevelopment Area is an industrial/commercial/residential neighborhood and was once one of the most extensive industrial areas in terms of size and density on Buffalo's East Side. It was historically developed as a manufacturing center along the former New York Central "Beltline" Railroad. Throughout the 20th century, facilities along this corridor produced airplanes, automobiles, furniture, mechanical parts, fuel components, food products and heavy machinery, but all of these plants closed by the 1980s. Despite this decline, the Area has significant geographic, industrial, and community assets making it a prime site to redevelop.

In 2014, New York State announced a signature initiative to transform this area through a public and private-sector partnership to realize a state-of-the-art campus for workforce training, manufacturing innovation, and private advanced manufacturing and clean energy establishments. The campus was to be anchored by the new Northland Workforce Training Center ("NWTC") and a new permanent location for Buffalo Manufacturing Works, a not-for-profit consulting organization that helps local manufacturers with new technologies, productivity improvements, and other types of innovation.

In September 2014 ESD awarded a $6.7 million grant and coordinated with BUDC on the acquisition of multiple long-vacant industrial properties; site planning, site/building conditions assessments and

contamination investigations; and activities to obtain necessary environmental reviews and approvals. BUDC acquired 12 properties, totaling approximately 700,000 square feet ("SF") of existing structures, and in February 2016, the City of Buffalo Planning Board completed its environmental review for the entire long-term redevelopment plan and granted site plan approval on its initial phase.

ESD awarded an additional $10.3 million ESD Grant in April 2016 for this Phase 1 of campus development, anchored by the NWTC, which now accommodates ~100,000 SF of space at 683 Northland Avenue, now known as the "Northland Central Building". The ESD funds went toward design/construction of historic building rehabilitation for the NWTC; associated site and street improvements along Northland Avenue between Fillmore Avenue and Grider Street; and other improvements to the campus. In January 2018, an additional $6 million was approved to acquire/install large instructional equipment at the NWTC.

In February 2018, ESD approved $25 million in funding for Phase 2 of development, including permanent tenancy there for Buffalo Manufacturing Works. In addition, this phase included core and shell rehabilitation for the balance of the building, which is now starting to realize private tenants.

As part of ESD's "East Side Corridor Economic Development Fund", a $65 million initiative established in 2019 to spark additional revitalization of Buffalo's East Side, $2 million was allocated for a community solar array and initial microgrid components at the Northland campus. The project was identified to provide low-cost power to new manufacturing tenants, provide reductions in monthly electrical utility costs for residents in the adjoining neighborhood, and to serve as the basis for the establishment of an energy training program at the NWTC. In December 2020, ESD approved a grant of $200,000 to undertake the pre-development planning study for the microgrid system.

While the planning study for the microgrid was completed, the $1.8 million balance of the project was delayed in the wake of COVID-19 restrictions. It was later included into a broader Northland campus project (i.e., "Northland Corridor Redevelopment Phase 3") submitted as part of ESD/BUDC's March 2022 application to the U.S. EDA's "Build Back Better Regional Challenge" and to be considered for additional New York State funding in the 2022-23 State budget.

On April 25, 2022, Governor Kathy Hochul announced that $55 million would be made available for Phase 3 of rehabilitation and redevelopment activities on the Northland Campus, anticipated to result in almost

250,000 SF of new commercial, manufacturing, and community space. This funding was included in the 2022-23 New York State budget as a component of the Regional Economic and Community Assistance Program budget allocation. A portion of these funds were targeted to leverage the aforementioned Build Back Better Regional Challenge application.

On September 1, 2022, BUDC was awarded a Build Back Better Regional Challenge award, inclusive of this project and other components, totaling $18 million. EDA will fund $14.4 million and $3.6 million must be funded through a required non-federal match. This $1.8 million grant would cover half of the non-federal match, with the balance coming from previous ESD funding allocated for initial components of a community solar array/program and campus microgrid (as part of a separate action to be considered by the Directors).

Past ESD Support: Over the past five years, ESD has provided $50 million in funding to the Grantee as follows:

Program	Project #	Amount	Date Start (ESD Directors' Approval Date)	Date End (Project Completion: Contract Expiration)	Purpose
Buffalo Regional Innovation Cluster	Z336	$6,700,000	September 18, 2014	July 2016	Capital Grant – Initial-phase property acquisition, planning, investigations, and planning/ environmental reviews for Northland Corridor Redevelopment Project.
Buffalo Regional Innovation Cluster	Z415	$10,300,000	April 21, 2015	June 2019	Capital Grant – 1st phase of rehab and construction at and around 683 Northland Avenue to accommodate tenancy of NWTC.
Buffalo Regional Innovation Cluster	AC426	$6,000,000	January 16, 2018	January 2021	Capital Grant – Continued rehab/construction at 683 Northland Avenue and purchase of large instructional equipment for NWTC.

Buffalo Regional Innovation Cluster	Z199; AC699	$25,000,000	February 15, 2018	January 2021	Capital Grant – Second phase of rehab and construction at and around 683 Northland Avenue to facilitate co-location of Buffalo Manufacturing Works with NWTC at the building and to core and shell the balance of the building for private tenants.
Buffalo Regional Innovation Cluster	133,857	$200,000	December 17, 2020 and request for an $1.8 million amendment to be presented at the April 20, 2023 Board of Directors Meeting	December 2025	Capital Grant – Initial pre-development planning study of community solar array/program and campus microgrid and construction of its primary components

B. The Project

Completion: December 31, 2028
(Overall program; subprojects would be progressively completed)

Activity: A primary goal of the Northland Corridor Redevelopment Phase 3 project is to continue to redevelop the campus to foster economic activity and a robust and diversified workforce of highly skilled workers within "tradeable sectors" of the WNY economy, specifically in clean energy and advanced manufacturing. Accordingly, the further adaptive reuse of former industrial structure and the incorporation of renewable energy generation systems continues to be key considerations at the Northland campus on.

This Project will involve design, construction administration, site/environmental work, select demolition, construction, financing costs, purchase/installation of equipment, and other associated costs for a series of seven (7) subprojects at the Northland campus. ESD funds would be used for the following:

1) **EDA Build Back Better Regional Challenge Subproject**. This $18 million component is the subject of the recently awarded federal grant and will involve the completion of rehabilitation of 541 E. Delavan Avenue, the "Eastern Plant" portion of the historic Houdaille complex (which is also the subject of a current Round V Restore NY grant) into 44,000 square feet of commercial, light manufacturing, community space. It would also include rehabilitation of the 10,000-square-foot Building "B" portion of 612 Northland Avenue, former form Heat Transfer & Loading Dock Buildings of the former Houdaille complex. Finally, this subproject would involve design and full

implementation of the campus microgrid system (adding to $1.8 million of ESD funds already allocated to this system), including a including a new solar array(s) at the Northland campus at one or more buildings and/or surface sites; upgrades to the BUDC-owned electrical substation; incorporation of battery back-up, redundancy, and other typical microgrid features; and establishment of a "Community Solar Program" that would provide monthly discounts to neighborhood residents.

ESD funds would be used as a required non-federal match of $3.6 million toward the $14.4 million in federal EDA funds. In addition, because EDA funds are reimbursable, ESD funds may be used to front-end work that would later be financed with federal funds.

2) **683/631 Northland Ave Subproject.** This subproject will involve completion of the historic rehabilitation and adaptive reuse of the now National Register-listed Niagara Tool and Machine Works complex at 683/631 Northland Avenue. This element would primarily focus on design and rehab of the remaining 40,000-square-foot building at 631 Northland Ave building, but would also involve cost recovery associated with the financing structure for state historic and brownfield tax credits secured for Phase 1 and 2 work at 683 Northland Avenue.

3) **777 Northland Ave Subproject**. This subproject will involve select demolition, stabilization, and new construction at the site of the former Otis Elevator (and later Curtiss Wright) facility at 777 Northland Avenue. As part of the consultation process with the State Historic Preservation Office ("SHPO"), it was determined that only ~25,000 square feet of the former 96,000+-square-foot complex could be preserved/stabilized. The balance of the site would support a new light industrial structure of 40-50,000 square feet.

4) **537 E. Delavan Subproject**. This subproject will involve the historic rehabilitation and adaptive reuse of the two-story, ~20,000-square-foot former administration building of the Houdaille Corporation, which pioneered the manufacture of shock absorbers in the U.S.

5) **741 Northland Ave Subproject**. This subproject will involve select demolition, stabilization, and new construction at the site of another former Otis Elevator at 741 Northland Avenue. The building currently contains 92,000 square feet of space and shares a wall with the structure at 777 Northland. It is anticipated that the remaining structure and new construction could house at least 50,000 square feet of new light manufacturing space. As part of this subproject,

BUDC would also stabilize, paint and brand the extant, BUDC-owned water tower near the property. The water tower's silhouette is part of all logo and identification material of the campus, given that it is one of the taller structures there.

6) **Houdaille Chimney & Boiler House Subproject**. Similar to efforts at the campus water tower, this subproject will stabilize and repurpose the chimney and former boiler house of the Houdaille complex, which was included as a mitigation stipulation in the SHPO's 2017 Memorandum of Agreement to offset the impacts of demolition planned or already conducted at the campus.

7) **Campuswide Tenant Improvements**. This subproject will involve selected actions to assist in fitting out shelled space for new tenants/users on the campus.

BUDC recently initiated a competitive selection process, in accordance with ESD and EDA requirements, to identify a firm to undertake final design, bidding and construction administration for the initial Build Back Better Regional Challenge Subproject noted above. ESD will ensure that design and construction of other subprojects are similarly procured competitively in accordance with ESD requirements.

Finally, it should be noted that selected subprojects where planned historic rehabilitation subprojects are anticipated to be of a scale to allow (e.g., 537 E. Delavan Avenue, 631 Northland Avenue), BUDC will be actively seeking to attempt to leverage ESD to secure and syndicate state and federal historic tax credits to supplement the overall budget for Phase 3 work. The ultimate anticipated value of such tax credits would be ascertained during the design process for applicable subprojects.

Results: The Project would further advance redevelopment of the Northland campus—resulting in almost 250,000 square feet of new commercial, light manufacturing, and community space, a fully operable solar microgrid, and major historic interpretive features (i.e., water tower, chimney) that will further contribute to the campus' sense of place—and do so in a manner that both facilitates public-private partnerships to fully revitalize this important district in East Buffalo and advance several other State and Federal policies for economic development and clean energy/climate action goals.

Infrastructure Investment Project: No Benefit-Cost Analysis ("BCA") is required since these projects generate long-term benefits not captured in the short-term period used for the

BCA and may involve no permanent job commitments.

Grantee Contact:	Ms. Brandye Merriweather, President 95 Perry Street, Suite 404 Buffalo, New York 14203 Phone: (716) 362-8373	
ESD Project No.:	135,711	
Project Team:	Origination	Paul Tronolone
	Project Management	Nancy Burkhardt
	Contractor & Supplier Diversity	Kelly Forsey
	Finance	Jonevan Hornsby
	Design & Construction	Jennifer Kensy
	Environmental	Paul Tronolone

C. Financial Terms and Conditions

1. The Grantee shall pay a commitment fee and reimburse ESD for all out-of-pocket expenses incurred in connection with the project

2. The Grantee will demonstrate no materially adverse changes in its financial condition prior to disbursement.

3. Up to $55 million, based upon projected cash flow needs for each of the listed uses, based upon Grantee-provided cash flow requirements. Advances will be deposited into an account (the "Imprest Account") at a bank mutually acceptable to ESD (as set forth in writing by ESD) upon execution of the Grant Disbursement Agreement and presentation to ESD of the contract for its preparation and such other documentation as ESD may reasonably require, assuming that all project approvals have been completed and funds are available. Funds from the Imprest Account, from the time of deposit and until disbursed from such account in accordance with terms approved by the ESD Directors, will be invested in accordance with ESD's Investment Guidelines as outlined in the Grant Disbursement Agreement. ESD shall be provided with copies of all account statements. Interest earned on the funds deposited in the Imprest Account must be returned to ESD quarterly along with copies of all bank statements, starting when funds are deposited and continuing until all funds have been disbursed.

   The Grantee may request funds from the Imprest Account to pay for eligible Project expenses on a monthly basis, unless otherwise approved by ESD, in accordance with Design and Construction requirements. Eligible expenditures paid by ESD's grant must be incurred on or after September 1, 2022 to be considered eligible Project costs. All requests for payments must be requested by December 31, 2028; any funds remaining in the Imprest Account as of December 31, 2028 shall be returned to ESD. The final 10% of the grant will be retained until documentation supporting project completion has

been received by ESD.

4. ESD may reallocate the Project funds to another form of assistance, at an amount no greater than $55,000,000 for this Project if ESD determines that the reallocation of the assistance would better serve the needs of the State of New York. In no event shall the total amount of any assistance to be so reallocated exceed the total amount of assistance approved by the Directors.

5. The Grantee will be deemed in default and the grant funds will be subject to *pro rata* recapture if a.) any Project components financed with ESD funds are sold or transferred to different ownership (other than to a Grantee affiliate) within 5 years of disbursement of funds without prior approval of ESD, and/or b.) the following requirements are not met:

   - BUDC shall employ competitive solicitation processes in coordination with ESD for selecting firms/contractors to lead the design and construction of the Subprojects.
   - For the campus microgrid component of the Build Back Better Subproject, BUDC shall realize the following minimum Project components:
     - A new solar power generating source at the Northland campus and any necessary upgrades to the BUDC-owned electrical substation;
     - Implementation of a Community Solar Program for reduction of monthly electrical costs for neighborhood residents; and
     - Development of a solar and/or emerging power training curriculum for use by the NWTC, , either as part of this project or through other parallel efforts.
   - BUDC shall properly operate, maintain, and administer the solar power generation and Community Solar Program for a minimum of five years after completion.

   The Recapture Amount is based on the time that has lapsed between when the Grant funds were disbursed and default occurred. The Recapture Amount shall be calculated by aggregating the Recapture Amount for each disbursement of the Grant, which in each instance shall be equal to:

   (i) 100% of the disbursed amount if the transfer occurred in the calendar year that the disbursement was made, or in the first full calendar year after the disbursement was made;
   (i) 80% of the disbursed amount if the transfer occurred in the second full calendar year after the disbursement was made;
   (ii) 60% of the disbursed amount if the transfer occurred in the third full calendar year after the disbursement was made;
   (iii) 40% of the disbursed amount if the transfer occurred in the fourth full calendar year after the disbursement was made;
   (iv) 20% of the disbursed amount if the transfer occurred in the fifth full calendar year after the disbursement was made.

IV. Statutory Basis – Regional Economic and Community Assistance Program ("RECAP")

The RECAP funding for the project was authorized in the 2022-23 New York State budget. No residential relocation is required as there are no families or individuals residing on the site.

V. Design and Construction

ESD Design & Construction staff or their designates will review the pre-development plan, budget/design estimates and construction documents. Design & Construction staff or their designates will attend BUDC/contractor meetings, at its option, and review milestones, schedule, monthly requisitions and recommend payments when its requirements have been met.

VI. Environmental Review

The Directors made a Determination of No Significant Effect on the Environment for the Northland Corridor Redevelopment Project at their meeting of April 21, 2016, pursuant to the requirements of the State Environmental Quality Review Act ("SEQRA") and the implementing regulations of the New York State Department of Environmental Conservation. This determination was based upon a coordinated SEQRA review made by the City of Buffalo as lead agency (on which ESD served as an Involved Agency). The review addressed all aspects of the Northland Corridor Redevelopment including anticipated improvements associated with facilitating and implementing all components associated with the subject Phase 3 of activities proposed there. Therefore, no further environmental review associated with this action is required.

Because several buildings in the Northland Corridor are listed on or are eligible for listing on the State/National Registers of Historic Places, ESD will continue to ensure that BUDC continues to undertake consultation with the New York State Office of Parks, Recreation and Historic Preservation in their role as SHPO pursuant to the requirements of Section 14.09 of the New York State Parks, Recreation and Historic Preservation Law and Section 106 of the National Historic Preservation Act. As previously noted, prior consultation efforts for the Northland Redevelopment resulted in a 2017 MOA executed by the City of Buffalo Urban Renewal Agency, SHPO, BUDC, and ESD, which remains in effect. ESD will continue to ensure that all stipulations in this MOA continue to be met.

VII. Non-Discrimination and Contractor & Supplier Diversity

ESD's Non-Discrimination and Contractor & Supplier Diversity policies will apply to this project. The Grantee shall be required to include minorities and women in any job opportunities created, to solicit and utilize Minority and Women-owned Business Enterprise (MWBEs) for any contractual opportunities generated in connection with the project and shall be required to use Good Faith Efforts (pursuant to 5 NYCRR §142.8) to achieve MWBE Participation. Establishment of specific goals related to the total value of ESD's funding is still pending.

VIII. ESD Employment Enforcement Policy

ESD's Employment Enforcement Policy will not apply since the project will not directly create or retain jobs.

IX. ESD Financial Assistance Subject to Availability of Funds and Additional Approval

The provision of ESD financial assistance is contingent upon the availability of funds and the approval of the State Division of the Budget.

X. Additional Submissions to Directors

Resolutions
New York State Map
Project Finance Memorandum

EXHIBIT B: DESIGN & CONSTRUCTION REQUIREMENTS

See Attached

Requirements for Progress Payment Projects

The following design and construction submissions and review documents shall be supplied to ESD:

- Construction Forms Review Checklist – See Attachment
- Certification for Anti-Bribery, Collusion, Fair Pricing – See Attachment
- Affidavit That All Taxes Have Been Paid – See Attachment

Design Phase

The Grantee shall furnish:

- Project budget w/brief narrative of project scope
- A/E Agreements/Amendments
- Certificates of Insurance
- Set of Plans (drawings & specifications)
- Cost estimates (including quantities and unit prices)
- Milestone Construction Schedule
- Code and zoning analysis
- Consultant's code certification letter – See Attachment
- Project Status Cost Control – See Attachment
- Summary Request for Payment – See Attachment
- Invoices
- Consultant's Lien Waiver – See Attachment

Construction Phase

The Grantee shall furnish:

At the start of construction:

- Final set of stamped Plans (drawings & specifications)
- Construction/CM Agreements
- Certificates of Insurance (including Subcontractors)
- Payment/Performance and Labor/Material bonds
- Copy of the building permit(s)
- Asbestos Free Building Certificate for alterations and demolitions
- Construction Progress Schedule
- Draft Pay App w/Trade payment breakdown (including Subcontractors)

During construction:

- Progress schedules and updates
- Minutes of project meetings
- Progress photos
- Project Status Cost Control – See Attachment
- Summary Request for Payment – See Attachment
- Request for Payment – See Attachment
- Proof of expenditures:
  - Payment Applications and Certificate of Payment (G702/703)
  - Invoices
  - Change orders
  - Contractor's Affidavit – See Attachment
  - Contractor's Lien Waiver – See Attachment
  - List of Subcontractors – See Attachment
  - Subcontractor's Lien Waivers – See Attachment
- Architect's Sketches/Bulletins
- Field inspection and test reports with A/E approval

At the completion of construction:

- Final Punchlist(s)
- Final As-builts, turnovers, manuals, warranties
- Temporary Certificate of Occupancy (TCO) and/or
- Certificate of Occupancy (CO)
- Contractor's Certification of Completed Construction
- Consultant's Certification of Completed Construction
- Contractor's Affidavit and Final Lien Waiver – See Attachment
- Subcontractor's Affidavit and Final Lien Waiver – See Attachment
- Consultant's Lien Waiver – See Attachment
- Release of Surety (G706/707) submitted with final closeout documentation

Inspections

- ESD will monitor construction progress throughout each phase until final completion.
- Copy of Final Special Inspection Report signed by A/E of Record

CONSTRUCTION FORMS REVIEW CHECKLIST

Project	
ESD Project Number	
Requisition/Gurf #	
Construction Mgr	

ESD Reqmt #	ESD Form #	Guidepost Protocol #	Description	Received?	Reviewed?	Comments
			Section 1 - Design Phase			
			Project Plan and Proposed Budget Narrative			
			Standard form of Agreement between Owner, Consultant, Subs, and/or Const.Manager			
	ACORD		Certificates of Insurance for Owner, Consultant, Subs, and/or Const.Manager			
16			A/E Consultant's Code Certification			
			Design Phase Plans & Outline Specifications (CSI form)			
			Design Phase Cost estimates (incl. applicable unit prices/quantities)			
			Code/ Zoning/ SEQR Analysis/ SHPO/ Agency Approvals			
			Proposed Construction Schedule			
			Proposed Funding Draw Schedule (Cash Flow Projection) for project by month			
08		6	Monthly Project Status Cost Control Report (CCR) - Soft Costs			
06		1	Summary Request For Payment Breakdown - with invoice(s)			
14			Unconditional Lien Waiver & Release (A/E/CM)			
			Section 2 -Start of Construction			
			Building or Other Permit Copy			
			Asbestos Free Building Certificate			
			Plans and Specs Signed and Sealed			
			General Conditions of the contract for construction			
			Agreement Between Owner and Contractor, Contractor and Subs			
22			Construction & Demolition Waste Management Plan (Optional)			
	ACORD		Contractors/Subs Certificates of Insurance - Incl. For Workers Comp & Disability (Non-ACORD)			
			Current Milestone construction schedule			
			Trade Payment Breakdown (SOV)			
			Section 3 - During Construction			
06	105-A	1	Summary Request For Payment Breakdown			
			a) Period reviewed			
			b) Net changes			
			c) Adjustments to contract			
			d) Work completed to date			
			e) Less retainer			
			f) Amount due to date			
			g) Less previous payments			
			h) Total payment due			
07	105-B		Request For Payment Breakdown			
08		6	Monthly Project Status Cost Control Report (CCR) - Hard Costs			
			a) Review monthly subcontractor invoice amounts (G702/703)			
			a(i) Recommendations/ clarifications warranted? (RFI)			
			b) Budget, budget change orders and revised budget			
			c) Invoice amounts for prior reimbursements, this month's reimbursement and total to date.			
			d) Projected cost amounts			
			e) Over/under budget amounts			
			f) % completed			
	G702/G703	2	Application & Certification for Payment Including Continuation Sheets			
			a) Check all amounts			
			b) Current payment due			
			c) Signed and Notarized dated certification by construction manager			
		8	Invoices			
			a) Review of all subcontractor invoices for amounts			
10	105-C	3	Contractors Affidavit			
			a) Signed and notarized and signed dated by officer			
11	105-D		List of Subcontractors			
12P	105-G	4	Contractor's Receipt and Waiver of Lien			
			a) Signed and Notarized dated by contractor			
13P	105-H	4	Subcontractors Receipt and Waiver of Lien			
			a) Signed and Notarized dated by subcontractor			
24		5	Affidavit That All Taxes Are Paid			
			a) Signed and notarized dated by an officer			
			Archaeological site report (if Applicable)			
			Survey Statement (if Applicable)			
			Foundation Survey (if Applicable)			
			Pile Driving Report (if Applicable)			
			Progress construction schedules and updates			
			Minutes of Project Meetings			
			Architect's Bulletins			
			Building Dept. Amendments			
			Building Dept. Approvals			
			Schedule of Change Orders			
	G704		Approved Change Orders			
			Labor & Performance Bonds			
			Payment & Performance Bonds			
			Section 4- At Completion of Construction			
			Transmittal Letter of As-Builts, Proj.Manuals and Warranties			
			Original Building or Other Permit issued			
			Temporary Certificate of Occupancy (TCO) (if Applicable)			
			Certificate of Occupancy (CO) (If Applicable)			
			Controlled Inspection and Test Reports with A/E approvals			
12F/13F	105-I/105-Ia		Contractor's Final Affidavit & Release and Waiver of Liens			
14			Consultant's Final Unconditional Waiver & Release (A/E/CM)			
	G706/G706A		Release of Surety			
17			Contractor's Cert. of Completed Construction			
18			Consultant's Cert. of Completed Construction			
			NY Board of Fire Underwriters/or AHJ Approval (except in NYC) (if Applicable)			
			Section 5- All Phases			
		12	GPS Certification and Authorization to do business in NYS			
			a) Prior to any disbursement to requisitioning entity, ensure the Certification regarding, bribery, collusive bidding and fair pricing has been executed by the requisitioning entity.			
			b) Prior to any disbursement ensure that requisitioning entity is authorized to do business in NYS.			

THIS CONSTRUCTION FORMS REVIEW PROTOCOL WAS REVIEWED BY THE SIGNATORY BELOW, WHO CERTIFIES THAT IT IS ACCURATE AND BASED ON THE ATTACHED DOCUMENTATION

Grantee:

Signature: _____ Date: _____

Name: _____ Title: _____

ESD Reviewed:

Signature: _____ Date: _____

Name: _____ Title: _____

CERTIFICATION

The undersigned on behalf of the _____ (the "Company"), in connection with the proposed payment of Grant Utilization Request Form #_____, dated _____, pursuant to a Grant Disbursement Agreement between the ESD and _____ (the "Grantee") dated _____ (the "Agreement"), identified herein, hereby confirms, based on my knowledge, under the penalties of perjury, the following:

Confirmation of Lack of Bribery

In connection with the Agreement and Invoices under which it has requested payment in the cumulative amount of $_____ as detailed in GURF #_____ (the "Requisition") neither the Company, nor any employee, owner, consultant and/or agent of the Company and/or any other person or entity on behalf and/or for the benefit of the Company has: (i) conferred, accepted, or offered or agreed to confer or accept any benefit upon or as a public servant upon an agreement or understanding that such public servant's vote, opinion, judgment, action, decision or exercise of discretion as a public servant would be thereby be influenced; and/or (ii) conferred, accepted or offered or agreed to confer or accept, any benefit as or upon any employee, agent, or fiduciary without the consent of his or her employer or principal, with intent to influence the employee's conduct or be influenced in relation to his or her employer's affairs; and/or (iii) offered, given, solicited, or received any item of value as a means of influencing the actions of an official or individual holding a public or legal duty; and/or (iv) offered, given, solicited or received a bribe of any kind.

Confirmation of Lack of Collusion

In connection with the Agreement and Invoices under which it has requested payment for operational costs in the cumulative amount of $_____ as detailed in the Requisition: (i) the prices for the construction, equipment, goods and/or services for which the Company seeks payment under the Requisition, were arrived at independently and without consultation, communication, or agreement with any other contractor, bidder, or potential bidder for such equipment, goods and services; and/or (ii) no attempt was made to induce any firm or person to refrain from seeking to perform or provide such equipment, goods and services; and/or (iii) no attempt was made to induce any firm or person to submit a price higher than the prices invoiced to the Company, or to submit any intentionally high or noncompetitive price or other form of complementary price.

Confirmation of Fair Pricing

In connection with the Agreement and Invoices under which it has requested payment in the cumulative amount of $_____ as detailed the Requisition: (i) the prices being charged to the Company under the Invoices for such prices for the construction, equipment, goods and/or services are commercially fair and reasonable and were determined in good faith by the Company; (ii) the Company is not sharing and/or paying any portion of the amount received in payment of the Invoices: (a) with any public servant, public official and/ or any person or entity on behalf of any public servant and/or public official; and/or (b) to any person or entity who has not provided actual services and/or goods to the Company in connection with such Invoices, unless such person or entity has provided actual services and/or goods to the Company in connection with such Invoices and the amount being paid to such person or entity is an amount equal to the fair value of the actual acquisition, goods or services, goods provided by such person or entity to the Company in connection with such Invoices.

This Certification is given under oath, recognizing that the penalties of perjury attach for any false or materially misleading statement contained herein and understanding that this Certification will be offered for filing with agencies of the State of New York. The person making this Certification is the Chief Executive Officer, President and/or Managing Member of the Company and is authorized to execute the Certification and bind the Company.

By: _____

[Name]

Title: _____

Company Name: _____

Dated:

At: _____

New York State Urban Development Corporation
d/b/a Empire State Development
Design and Construction Department

AFFIDAVIT THAT ALL TAXES HAVE BEEN PAID

PROJECT: Name, Project #135,711 Northland Corridor Redevelopment Phase 3 Capital
City, County Buffalo, Erie

The undersigned certifies that all federal, state and local taxes, (including sales, consumer, use and excise taxes) applicable to the work and services performed and materials and equipment incorporated into the work, in each case pursuant to the project reference above, have been paid in full to the extent the undersigned is required to pay such items.

Name of Company: Buffalo Urban Development Corporation

Signature: _____

Print Name: _____

Title: Executive Vice President

Date: _____

STATE OF NEW YORK)
COUNTY OF) SS:
CITY OF BUFFALO)

On this _____ day of _____, 20____ , before me subscriber personally appeared _____me known and known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her capacity, and that by his/her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public
My commission expires _____

PROJECT STATUS COST CONTROL REPORT

As of _____

_____

(Project)

Total Project Cost: _____ Project Number: _____ Contract Completion Date: _____ Estimated Completion Date: _____ Actual Completion Date: _____

FULL COST REPORT SHALL HAVE ONE PAGE FOR PROJECT TOTAL COST AND ADDITONAL PAGES FOR EACH FUNDING SOURCE, INCLUDING ESD

		(1)	(2)	(3)	(4) (2+3)	(5)	(6)	(7) (5+6)	(8)	(9)	(10)	
						INVOICED			PROJECTED COST			
Description	Contractor/Consultant	Budget (date)	Original Contact/ Commitments*	Cumulative Approved C.O.'s/Amend	Revised Contract Commitments*	Prior Thru GURF #__	This GURF #__ (Date)	Total To Date	Balance To Be Completed	Total Estimated Cost	(Over/Under) Budget	% Complete
(Sample Line Items Only - Use Additonal Sheet if Required)												
DESIGN		$ -										
• A/E Fees	company		$ -	$ -	$ -		$ -	$ -	$ -			0%
SD phase			$ -	$ -	$ -							
DD phase			$ -	$ -	$ -							
CD phase			$ -	$ -	$ -							
Bid phase			$ -	$ -	$ -							
CA phase			$ -	$ -	$ -							
reimbursables			$ -	$ -	$ -							
(other subconsultant work)	sub		$ -	$ -	$ -							
(other subconsultant work)	sub		$ -	$ -	$ -							
(other subconsultant work)	sub		$ -	$ -	$ -							
• Other												
Survey	company		$ -	$ -	$ -			$ -	$ -			0%
Environmental	company		$ -	$ -	$ -			$ -	$ -			0%
Builder's Risk	company		$ -	$ -	$ -			$ -	$ -			0%
Soils/Foundation	company		$ -	$ -	$ -			$ -	$ -			0%
Testing & Inspections	company		$ -	$ -	$ -			$ -	$ -			0%
etc.	company		$ -	$ -	$ -			$ -	$ -			0%
• SUBTOTAL SOFT COSTS			$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -	
CONSTRUCTION		$ -										
• General Contract	company		$ -	$ -	$ -		$ -	$ -	$ -			0%
subcontractor-trade	company		$ -	$ -	$ -							
subcontractor-trade	company		$ -	$ -	$ -							
subcontractor-trade	company		$ -	$ -	$ -							
• Other Contract	company		$ -	$ -	$ -		$ -	$ -	$ -			0%
subcontractor-trade	company		$ -	$ -	$ -							
subcontractor-trade	company		$ -	$ -	$ -							
subcontractor-trade	company		$ -	$ -	$ -							
• Other												
• SUBTOTAL HARD COSTS			$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -	
Project Contingency												
• TOTAL PROJECT COST		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -	

*Asterisk Commited Items not yet under formal contract

Prepared By: _____ Date: _____ Approved By: _____ Date: _____

NEW YORK STATE OF OPPORTUNITY. | Empire State Development

Summary - Request for Payment

Project _____ Requisition No. _____

Name & Address of Consultant _____ Project No. _____

_____ Contract No. _____

Requisition Amount		
Original Contract		
Approved Change Orders		
Extras		
Credits		
Net Change (Add-Deduct)		
Adjusted Contract		
Work Completed To Date		
On Contract		
By Change Order Extras		
By Change Order Credits		
Net Change (Add-Deduct)		
Total Work Completed To Date		
Amount Earned To Date		
Less _____% Retainer		
Amount Due To Date		
Less Previous Payments		
Contract		
Other (Explain Below)		
Payment Due This Estimate		

Remarks:

The following items are included in this Request for Payment:

- ☐ Summary - Request for Payment
- ☐ Request for Payment/Invoice
- ☐ List of Subcontractors
- ☐ Schedules of Change Orders
- ☐ Unconditional Lien Waiver
- ☐ Subconsultant Unconditional Lien Waiver (If Applicable)

NEW YORK STATE OF OPPORTUNITY. | Empire State Development

New York State Urban Development Corporation
d/b/a Empire State Development

Request for Payment

Project _____ Requisition No. _____

Name & Address of Contractor _____ Project No. _____

_____ Contract No. _____

In accordance with the provisions of the Construction Contract/Letter Agreement dated _____ and Contractor's cost breakdown (schedule of values) attached thereto, this requisition is submitted for the smount of $_____ due for work performed up to the _____ day of _____ and as itemized below by the trades listed in the cost breakdown.

_____ Contractor (Signature) _____ Date_____

	Trade Item	Trade Item Total Amount	Amounts Completed To Date		Amounts all Previous			%
			Material	Labor	Total	Requisitions	Amount This Requisition	Compl.
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
	Total							
	Less ( )% Retainer Line (32)							
	Totals							

Progress ☐ Satisfactory ☐ Unsatisfactory (If unsatisfactory, attach memo of explaination

Construction is _____ % Completed.

I certify that I have checked and verified the above application for payment and that to the best of knowledge and belief: (1) It is true and correct statement of

_____ _____

Architect Date Date

Approved:

_____ _____

ESD Construction Project Manager Date ESD Construction Cost Estimator Date

_____ _____

Date

105b-(6/16)

NEW YORK STATE OF OPPORTUNITY. | Empire State Development

ESD Project No.:_____

UNCONDITIONAL WAIVER AND RELEASE OF CLAIMS AND LIENS, AND RELEASE OF RIGHTS

State of New York)
) ss.:
County of)

The undersigned (the "_____") has been paid and has received full payment for all services furnished by _____ _____and/or employees or others acting for _____or claiming by, through or under _____from _____ _____to_____ on the job of (Owner) in connection with the construction of a project of the New York State Urban Development Corporation d/b/a Empire State Development ("ESD"), known as _____ _____ (the "Project") pursuant to a contract executed with _____dated _____, _____, 20____ (the "Contract").

_____ represents and warrants that _____and all persons and entities acting for or claiming by, through or under _____have fully performed and furnished all services to have been performed or furnished by _____pursuant to its obligations under the Contract and that there is not now due or owing any amount of money or wages to any party or entity in connection with this Project or any part thereof. The does hereby release for itself and any party or entity claiming by, through or under_____, from any and all rights which it has or may have pursuant to the New York Lien Law to file any lien or notice of lien against the Project, mechanic's liens, stop notice, bond right or claim of any nature whatsoever that the undersigned has or may have with respect to the above referenced Project.

The _____further agrees to reimburse and does hold harmless and fully indemnify ESD, its successors and assigns for any losses or expenses should any such claim, lien, or right to a lien be asserted by the _____or by any person or entity acting for or claiming by, through or under the Architect, including, without implied limitation, attorney's fees incurred in the defense thereof.

In addition, for and in consideration of the amounts and sums received, the undersigned hereby waives, releases and relinquishes ESD from any and all claims, rights or causes of action whatsoever arising out of or in the course of the work performed on the above-mentioned Project.

Entity: _____

Name: _____Title:_____

On the _____day of _____, 20____, before me,_____the subscriber personally appeared to me personally known, who being by me duly sworn, did depose and say that he/she resides at _____ _____ that he/she is _____ of_____the entity described in and which executed the foregoing instrument.

_____
Notary Public
My Commission expires:_____

CONSULTANT'S LETTERHEAD

CONSULTANT'S CODE CERTIFICATION LETTER

The following Certification Letter shall be included in the initial report submitted to ESDC for approval.

DATE

Empire State Development
95 Perry Street
Buffalo, NY 14203

Attention: Jennifer Kensy
Construction Manager
Design and Construction

Re: Consultant's Code Certification of Architect (Engineer)
(Insert Location and Name of Project)

Dear Ms. Kensy,

The undersigned, a principal of the firm of _____, duly qualified and registered to practice architecture/engineering in the State of New York, in connection with the _____ project, does hereby certify that final plans and specifications will be designed to conform with the (insert name of applicable building code) and applicable municipal regulations.

IN WITNESS WHEREOF, I have hereunto set my hand this _____ day of _____, 20___.

SIGNATURE

ARCHITECT'S (OR ENGINEER'S) NAME SEAL

CONSULTANT'S LETTERHEAD

CONSULTANT'S CERTIFICATION OF COMPLETED CONSTRUCTION

The following Certification shall be submitted to ESD at completion of construction on Consultant's letterhead.

DATE

Empire State Development
95 Perry Street
Buffalo, NY 14203

Attention: Jennifer Kensy
Construction Manager
Design and Construction

Re: Consultant's Certification of Completed Construction
(Insert Location and Name of Project)

Dear Ms. Kensy,

The undersigned, a principal of the firm of _____
duly qualified and registered to practice architecture/engineering in the State of New York, in connection with the (insert location and name of project) project, does hereby certify that to the best of our knowledge construction of work required by the contract has been completed in accordance with the drawings approved by the (insert name of approving agency) and requirements of the (insert name of applicable building code).

IN WITNESS WHEREOF, I have hereunto set my hand this _____ day of _____, 20___.

SIGNATURE

ARCHITECT'S (OR ENGINEER'S) NAME SEAL

NEW YORK STATE OF OPPORTUNITY. | Empire State Development

Summary - Request for Payment

Project _____ Requisition No. _____

Name & Address of Consultant _____ Project No. _____

_____ Contract No. _____

Requisition Amount		
Original Contract		
Approved Change Orders		
Extras		
Credits		
Net Change (Add-Deduct)		
Adjusted Contract		
Work Completed To Date		
On Contract		
By Change Order Extras		
By Change Order Credits		
Net Change (Add-Deduct)		
Total Work Completed To Date		
Amount Earned To Date		
Less _____% Retainer		
Amount Due To Date		
Less Previous Payments		
Contract		
Other (Explain Below)		
Payment Due This Estimate		

Remarks:

The following items are included in this Request for Payment:

- ☐ Summary - Request for Payment
- ☐ Request for Payment/Invoice
- ☐ List of Subcontractors
- ☐ Schedules of Change Orders
- ☐ Unconditional Lien Waiver
- ☐ Subconsultant Unconditional Lien Waiver (If Applicable)

NEW YORK STATE OF OPPORTUNITY. | Empire State Development

New York State Urban Development Corporation
d/b/a Empire State Development

Request for Payment

Project _____ Requisition No. _____

Name & Address of Contractor _____ Project No. _____

_____ Contract No. _____

In accordance with the provisions of the Construction Contract/Letter Agreement dated _____ and Contractor's cost breakdown (schedule of values) attached thereto, this requisition is submitted for the smount of $_____ due for work performed up to the _____ day of _____ and as itemized below by the trades listed in the cost breakdown.

_____ Contractor (Signature) _____ Date_____

	Trade Item	Trade Item Total Amount	Amounts Completed To Date		Amounts all Previous			%
			Material	Labor	Total	Requisitions	Amount This Requisition	Compl.
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
	Total							
	Less ( )% Retainer Line (32)							
	Totals							

Progress ☐ Satisfactory ☐ Unsatisfactory (If unsatisfactory, attach memo of explaination

Construction is _____ % Completed.

I certify that I have checked and verified the above application for payment and that to the best of knowledge and belief: (1) It is true and correct statement of

_____ _____

Architect Date Date

Approved:

_____ _____

ESD Construction Project Manager Date ESD Construction Cost Estimator Date

_____ _____

Date

105b-(6/16)

105b-(02/15)

APPLICATION AND CERTIFICATION FOR PAYMENT

AIA DOCUMENT G702 PAGE ONE OF PAGES

TO OWNER: PROJECT:

APPLICATION NO: 0 Distribution to:

X	OWNER
	ARCHITECT
	CONTRACTOR

PERIOD TO: to

FROM CONTRACTOR: VIA ARCHITECT:

PROJECT NOS:

CONTRACT FOR: CONTRACT DATE:

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract.
Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM		$ 0.00
2. Net change by Change Orders		$ 0.00
3. CONTRACT SUM TO DATE (Line 1 ± 2)	$	$ 0.00
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703)		$ 0.00
5. RETAINAGE:		
a. ____ % of Completed Work (Column D + E on G703)	$0.00	
b. 0 % of Stored Material (Column F on G703)	Included in above	
Total Retainage (Lines 5a + 5b or Total in Column I of G703)		$ 0.00
6. TOTAL EARNED LESS RETAINAGE (Line 4 Less Line 5 Total)		$ 0.00
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate)		$
8. CURRENT PAYMENT DUE		$ 0.00
9. BALANCE TO FINISH, INCLUDING RETAINAGE (Line 3 less Line 6)	$	0.00

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner		
Total approved this Month		
TOTALS	$0.00	$0.00
NET CHANGES by Change Order	$0.00	

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR:

By: Date:

State of: County of:
Subscribed and sworn to before me this day of
Notary Public:
My Commission expires:

ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED . . . . . $ $ -

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and onthe Continuation Sheet that are changed to conform with the amount certified.)

ARCHITECT:

By: Date:

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

AIA DOCUMENT G702 · APPLICATION AND CERTIFICATION FOR PAYMENT · 1992 EDITION · AIA · ©1992 THE AMERICAN INSTITUTE OF ARCHITECTS, 1735 NEW YORK AVE., N.W., WASHINGTON, DC 20006-5292

Users may obtain validation of this document by requesting a completed AIA Document D401 - Certification of Document's Authenticity from the Licensee.

CONTINUATION SHEET

AIA DOCUMENT G703

PAGE OF PAGES

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO:
APPLICATION DATE:
PERIOD TO:
ARCHITECT'S PROJECT NO:

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
ITEM NO.	DESCRIPTION OF WORK	SCHEDULED VALUE (ORIGINAL GMP)	ADDS/DEDUCTS	REVISED SCHEDULED VALUE	WORK COMPLETED			TOTAL COMPLETED AND STORED TO DATE (F+G+H)	% COMPLETE (I ÷ E)	BALANCE TO FINISH (E - I)	RETAINAGE			NET BILLING THIS PERIOD
					FROM PREVIOUS APPLICATION (E + G)	THIS PERIOD	MATERIALS PRESENTLY STORED (NOT IN - F OR G)				RETAINAGE PREVIOUS APPLICATION	RETAINAGE THIS PERIOD	RETAINAGE RELEASED THIS PERIOD	

NEW YORK STATE OF OPPORTUNITY. | Empire State Development

ESD Project No.:_____

New York State Urban Development Corporation
d/b/a Empire State Development
Design and Construction Department

CONTRACTOR'S AFFIDAVIT

STATE OF NEW YORK)
) ss.:
COUNTY OF)

_____, being first duly sworn, deposes and says:

I, _____, am the _____ of _____(the "Contractor"), a [corporation; limited liability company; limited partnership] organized and existing under the laws of the State of New York, having its principal offices at _____ _____.

That the Contractor is the general contractor for _____ (the "Project") pursuant to a construction contract dated the __day of _____, 20_(the Construction Agreement") between the Contractor and _____ (the "Owner").

That the Contractor has received all payments due it under the Construction Agreement as of Requisition No.___, dated the ____ day of _____, 20__.

That the Contractor has to the date hereof performed all its obligations pursuant to the Construction Agreement and has paid to its subcontractors and vendors the amounts due to them for the work performed and the materials furnished by each of them in connection with the Construction Agreement, for amounts up to and including Requisition No.____.

That annexed hereto as "Attachment 1" is a list of all subcontractors and vendors who have performed work and labor or furnished materials and equipment in connection with the Construction Agreement. If none, state "None."

Signature _____
Name:_____ Title:_____

Sworn to before me this _____day of _____, 20____.

_____
Notary Public
My commission expires:_____

NEW YORK STATE OF OPPORTUNITY. | Empire State Development

ESD Project No.: _____
ESD Requisition No.: _____

CONTRACTOR'S RECEIPT AND WAIVER OF LIEN

State of New York)
) ss.:
County of)

_____ ("Contractor"), in connection with the construction of a project of the New York State Urban Development Corporation d/b/a Empire State Development ("ESD") known as _____ (the "Project") and the payment by _____ ("Owner") to Contractor of certain sums requisitioned by the Contractor pursuant to its Request for Payment No. _____ dated _____, _____, 20, ____ (the "Requisition"), DOES HEREBY CERTIFY AND ACKNOWLEDGE that it has received the cumulative amount of $_____, representing all sums due and owing to it in accordance with its agreement with the Owner dated _____, _____, 20__, other than sums, if any, withheld by the Owner in accordance with such agreement and approved by the Owner and ESD, for work performed or materials supplied for the Project to the date of _____ _____, ___ 20__, and DOES HEREBY FOREVER RELEASE AND WAIVE for itself, its successor and assigns any and all rights, claims and demands it has or may have against the Owner and ESD, including any and all rights which it has or may have pursuant to the New York Lien Law to file any lien or notice of lien against the Project or any property of the Owner on account of or deriving from labor performed or materials furnished for the Project to the date of the previously submitted requisition dated _____, _____ 20__.

IN WITNESS WHEREOF, Contractor has caused this Receipt and Waiver to be duly executed and the seal of the Contractor to be affixed as of the date of the Requisition by the undersigned duly authorized officer.

Contractor: _____
Name: _____ Title: _____

On the ____ day of _____, 20__, before me, _____ the subscriber personally appeared to me personally known, who being by me duly sworn, did depose and say that he/she resides at _____ _____ that he/she is _____ of _____ the entity described in and which executed the foregoing instrument.

_____

Notary Public
My commission expires:

NEW YORK STATE OF OPPORTUNITY. | Empire State Development

Project _____ Requisition No. _____

Name & Address of Contractor _____ Project No. _____

Contract No. _____

LIST OF SUBCONTRACTORS/VENDOR SUBMITTED WITH REQUEST FOR PAYMENT

The following Subcontractors/Vendors are included for payment with this requisition:

Trade	Subcontractor or Vendor	Amount of Subcontract

NEW YORK STATE OF OPPORTUNITY. | Empire State Development

ESD Project No.:_____
ESD Requisition No.:_____

SUBCONTRACTOR'S RECEIPT AND WAIVER OF LIEN

State of New York)
) ss.:
County of)

_____ ("Subcontractor"), in connection with the construction of a project of the New York State Urban Development Corporation d/b/a Empire State Development ("ESD") known as _____, (the "Project") and the payment to the Subcontractor by _____ (the "Contractor") of certain sums requisitioned by the Contractor pursuant to the Contractor's Request for Payment No. _____ dated _____, _____, 20____ submitted to _____ ("Owner"), (the "Requisition"), DOES HEREBY CERTIFY AND ACKNOWLEDGE that it has received the cumulative amount of $_____, representing all sums due and owing to it in accordance with its agreement with the Contractor dated _____, _____ 20____, other than sums, if any, withheld by the Contractor in accordance with such agreement and approved by the Owner and ESD, for work performed or materials supplied for the Project to the date of _____, _____20_____, and DOES HEREBY FOREVER RELEASE AND WAIVE for itself, its successor and assigns any and all rights, claims and demands it has or may have against the Owner and ESD, including any and all rights which it has or may have pursuant to the New York Lien Law to file any lien or notice of lien against the Project or any property of the Owner on account of or deriving from labor performed or materials furnished for the Project to the date of the previously submitted requisition dated _____, _____, 20____.

IN WITNESS WHEREOF, Subcontractor has caused this Receipt and Waiver to be duly executed and the seal of Subcontractor to be affixed as of the date of the Requisition by the undersigned duly authorized officer.

Contractor:_____
Name:_____Title:_____

On this _____ day of _____, 20__, before me the subscriber personally appeared __ _____ to me, personally known, who being by me duly sworn, did depose and say that he/she resides at _____that he/she is_____of _____the entity described in and which executed the foregoing instrument.

_____
Notary Public
My commission expires: _____

CONTRACTOR'S LETTERHEAD

CONTRACTOR'S CERTIFICATION OF COMPLETED CONSTRUCTION

The following Certification shall be submitted to ESD at completion of construction on Contractor's letterhead.

DATE

Empire State Development
95 Perry Street
Buffalo, NY 14203

Attention: Jennifer Kensy
Construction Manager
Design and Construction

Re: Contractor's Certification of Completed Construction
(Insert Location and Name of Project)

Dear Ms. Kensy,

The undersigned, an officer of _____ (firm name), in connection with the _____ project, does hereby certify that construction of all work required by the construction agreement has been completed in accordance with final construction documents, the (insert name of applicable building code) and applicable municipal regulations.

IN WITNESS WHEREOF, I have hereunto set my hand this _____ day of _____, 20___.

_____
Notary Public

SIGNATURE

OFFICER'S NAME & TITLE

NEW YORK STATE OF OPPORTUNITY. Empire State Development

ESD Project No.:_____
ESD Requisition No.:_____

CONTRACTOR'S AFFIDAVIT, FINAL WAIVER OF CLAIMS AND LIENS, AND RELEASE OF RIGHTS

STATE OF NEW YORK)
) SS.:
COUNTY OF)

The undersigned, who is the _____of_____(the "Contractor") which performed work under a contract with _____for Project #_____ (the "Contract") declares that its Contract with the Owner is in the total amount of $_____, which includes extras and all change orders to the date hereof.

In consideration of the amounts and sums previously received, and the last and final payment of $_____being full and final payment of the amount due, the Contractor does hereby acknowledge that it has been paid in full for all work it performed on the Project and that it further hereby releases the Owner and the New York State Urban Development Corporation d/b/a Empire State Development ("ESD") from any and all claims and liens, and further waives any and all rights to liens upon the premises described below (which may be more particularly described by an Exhibit "A" attached), and upon improvements now or hereafter made thereon, and upon the monies or other considerations due or to become due from the Owner or ESD or from any other person, firm or public or private entity, said claims and liens and rights to liens being on account of labor, services, materials, fixtures or apparatus furnished by or which may be furnished at any time hereafter by or at the request of the undersigned. The premises as to which said claims and liens and rights to liens are hereby released are identified as follows:

Project Name: _____
Address or Project: _____
City: _____ County: _____ State: _____

The undersigned further represents and warrants that he/she is duly authorized and empowered to sign and execute this wavier on his/her own behalf and on behalf of the Contractor for which he/she is signing; that Contractor has properly performed all work and furnished all the materials of the specified quality per plans and specifications and in a good and workmanlike manner, fully and completely; that Contactor has been paid in full for all work it performed on the Project; that Contractor has paid its subcontractors, vendors and suppliers for all the labor, materials, equipment and services that Contractor has used or been supplied or may hereafter use or be supplied to the above premises, and that Contractor has no outstanding and unpaid payment applications, invoices, retentions, holdbacks, chargebacks or unbilled work or materials, as of the date of the aforementioned last and final payment application of invoice; and that any materials which have been supplied or incorporated into the above premises were either taken from Contractor's fully-paid or open stock or were fully paid for and supplied.

The undersigned further agrees to reimburse and does hold harmless and fully indemnify Owner, ESD and _____ _____ for any losses or expenses should any such claim, lien, or right to a lien be asserted (by the undersigned or by any laborer, materialman or subcontractor of the undersigned), including, without implied limitation, attorneys' fees incurred in the defense thereof.

In addition, for and in consideration of the amounts and sums received, the Contractor hereby waives, releases and relinquishes any and all claims, rights or causes of action whatsoever the Contractor had, has or may have against the Owner and ESD arising out of or in the course of the work performed on the above-mentioned project, contract or event.

Contractor:_____
By:_____ Title:_____

On this _____day of _____, 20__, before me the subscriber personally appeared _____ to me, personally known, who being by me duly sworn, did depose and say that he/she resides at _____ _____that he/she is_____of _____the entity described in and which executed the foregoing instrument.

_____
Notary Public
My commission expires: _____

NEW YORK STATE OF OPPORTUNITY. Empire State Development

ESD Project No. _____
ESD Requisition No._____

SUBCONTRACTOR'S AFFIDAVIT, FINAL WAIVER OF CLAIMS AND LIENS, AND RELEASE OF RIGHTS

STATE OF NEW YORK)
) SS.:
COUNTY OF)

The undersigned, who is the _____of _____ (the "Subcontractor") which performed work under a subcontract with _____ ("Contractor") for Project #_____declares that its Subcontract with the Contractor is in the total amount of $_____, which includes extras and all change orders to the date hereof.

In consideration of the amounts and sums previously received, and the last and final payment of $_____ being full and final payment of the amount due, the Subcontractor does hereby acknowledge that it has been paid in full for all work it performed on the Project and that it further hereby releases _____ ("Owner") and the New York State Urban Development Corporation d/b/a Empire State Development ("ESD") from any and all claims and liens, and further waives any and all rights to liens upon the premises described below (which may be more particularly described by an Exhibit "A" attached), and upon improvements now or hereafter made thereon, and upon the monies or other considerations due or to become due from the Owner or ESD or from any other person, firm or corporation, said claims and liens and rights to liens being on account of labor, services, materials, fixtures or apparatus furnished by or which may be furnished at any time hereafter by or at the request of the undersigned. The premises as to which said claims and liens and rights to liens are hereby released are identified as follows:

Project Name: _____
Address or Project: _____
City: _____ County: _____ State: _____

The undersigned further represents and warrants that he/she is duly authorized and empowered to sign and execute this wavier on his/her own behalf and on behalf of the Subcontractor for which he/she is signing; that Subcontractor has properly performed all work and furnished all the materials of the specified quality per plans and specifications and in a good and workmanlike manner, fully and completely; that Subcontractor has been paid in full for all work it performed on the Project; that Subcontractor has paid its subcontractors, vendors and suppliers for all the labor, materials, equipment and services that Subcontractor has used or been supplied or may hereafter use or be supplied to the above premises, and that Subcontractor has no outstanding and unpaid payment applications, invoices, retentions, holdbacks, chargebacks or unbilled work or materials, as of the date of the aforementioned last and final payment application of invoice; and that any materials which have been supplied or incorporated into the above premises were either taken from Subcontractor's fully-paid or open stock or were fully paid for and supplied as stated on the statement accompanying the last and final payment application or invoice.

The undersigned further agrees to reimburse and does hold harmless and fully indemnify Owner, ESD and _____ for any losses or expenses should any such claim, lien, or right to a lien be asserted (by the undersigned or by any laborer, materialman or subcontractor of the undersigned), including, without implied limitation, attorneys' fees incurred in the defense thereof.

In addition, for and in consideration of the amounts and sums received, the Subcontractor hereby waives, releases and relinquishes any and all claims, rights or causes of action whatsoever the Subcontractor had, has or may have against the Owner and ESD arising out of or in the course of the work performed on the above-mentioned project, contract or event.

Contractor:_____
By:_____ Title:_____

On this _____day of_____, 20_____, before me the subscriber personally appeared _____ to me, personally known, who being by me duly sworn, did depose and say that he/she resides at _____that he/she is_____of ___ _____the entity described in and which executed the foregoing instrument.

_____
Notary Public
My Commission expires: _____

EXHIBIT C: RECAPTURE TERMS

Buffalo Urban Development Corporation, Project #135,711

The Grantee will be deemed in default and the grant funds will be subject to *pro rata* recapture if a.) any Project components financed with ESD funds are sold or transferred to different ownership (other than to a Grantee affiliate) within 5 years of disbursement of funds without prior approval of ESD, and/or b.) the following requirements are not met:

- BUDC shall employ competitive solicitation processes in coordination with ESD for selecting firms/contractors to lead the design and construction of the Subprojects.
- For the campus microgrid component of the Build Back Better Subproject, BUDC shall realize the following minimum Project components:
  - A new solar power generating source at the Northland campus and any necessary upgrades to the BUDC-owned electrical substation;
  - Implementation of a Community Solar Program for reduction of monthly electrical costs for neighborhood residents; and
  - Development of a solar and/or emerging power training curriculum for use by the NWTC, either as part of this project or through other parallel efforts.
- BUDC shall properly operate, maintain, and administer the solar power generation and Community Solar Program for a minimum of five years after completion.

The Recapture Amount is based on the time that has lapsed between when the Grant funds were disbursed and default occurred. The Recapture Amount shall be calculated by aggregating the Recapture Amount for each disbursement of the Grant, which in each instance shall be equal to:

(i) 100% of the disbursed amount if the transfer occurred in the calendar year that the disbursement was made, or in the first full calendar year after the disbursement was made;

(ii) 80% of the disbursed amount if the transfer occurred in the second full calendar year after the disbursement was made;

(iii) 60% of the disbursed amount if the transfer occurred in the third full calendar year after the disbursement was made;

(iv) 40% of the disbursed amount if the transfer occurred in the fourth full calendar year after the disbursement was made;

(v) 20% of the disbursed amount if the transfer occurred in the fifth full calendar year after the disbursement was made.

EXHIBIT D: OPINION OF COUNSEL

[Letterhead of Counsel to the Grantee]

[Date]

Empire State Development
95 Perry Street, Suite 500
Buffalo, NY 14203-3030

Attn: Jean Williams, Sr. Director, WNY Projects

Re: Northland Corridor Redevelopment Phase 3 Capital, Project #135,711

Ladies and Gentlemen:

We have acted as special counsel to Buffalo Urban Development Corporation, a not-for-profit agency (the "Grantee"), in connection with the execution and delivery of the Grant Disbursement Agreement dated [Date of Agreement] (the "Agreement") between New York State Urban Development Corporation d/b/a Empire State Development ("ESD") and the Grantee.

This opinion letter is being furnished to you at our client's request pursuant to Section 3(a) of the Agreement. Capitalized terms used but not defined herein shall have the meanings assigned thereto in the Agreement.

In rendering the opinions set forth herein, we have examined originals, or copies certified or otherwise identified to our satisfaction, of such documents, corporate records and other instruments as we have deemed necessary or appropriate for the purposes of this opinion letter, including (a) the Agreement, (b) the certificate of incorporation of the Grantee and (c) the by-laws of the Grantee. We have also examined and relied upon such other matters of law, documents, certificates of public officials and representations of officers and other representatives of the Grantee as we have deemed relevant, appropriate or necessary to the rendering of our opinions.

In rendering the opinions expressed below, we have assumed the legal capacity of all natural persons signing documents and that the signatures of persons signing all documents in connection with which this opinion letter is rendered are genuine, all documents submitted to us as originals or duplicate originals are authentic and all documents submitted to us as copies, whether certified or not, conform to authentic original documents. Additionally, we have assumed and relied upon the accuracy and completeness of all certificates and other statements, documents, records, financial statements and papers reviewed by us, and the accuracy and completeness of all representations, warranties, confirmations, schedules and exhibits contained in the Agreement, with respect to the factual matters set forth therein.

As to any facts material to the opinions expressed herein that we did not independently establish or verify, we have relied upon written statements and representations of officers and other representatives of the Grantee and of certain public officials. We have also assumed and relied upon the accuracy and completeness of all certificates and other statements, representations, documents,

records, financial statements and papers reviewed by us, and the accuracy and completeness of all representations, warranties and exhibits contained in the Agreement with respect to the factual matters set forth therein.

Based upon the foregoing and subject to the assumptions, qualifications and other matters set forth herein, we are of the opinion that:

1. The Grantee is validly existing and in good standing under the laws of the State of New York and has full power and authority to execute and deliver the Agreement and to perform its obligations thereunder.

2. The Agreement has been duly authorized, executed and delivered by the Grantee and (assuming its due authorization, execution and delivery by ESD) is binding on and enforceable against the Grantee in accordance with its terms, subject to applicable bankruptcy, insolvency reorganization, arrangement, liquidation, moratorium, fraudulent conveyance or transfer and other similar laws relating to or affecting creditors' rights generally from time to time in effect and to general principles of equity (regardless of whether enforcement is sought in a proceeding in equity or at law), and except as rights under the Agreement to indemnity and contribution may be limited by federal or state laws.

We are admitted to practice in the State of New York and we express no opinion as to any matters governed by any laws other than the laws of the State of New York. The opinions expressed herein that are based on the laws of the State of New York are limited to the laws generally applicable in transactions of the type covered by the Agreement.

This opinion letter is for the benefit solely of ESD and not for the benefit of any other person. We are opining herein only as of the date hereof and we undertake no, and disclaim any, obligation to advise you of any changes in any matter set forth herein, regardless of whether changes in such matters come to our attention after the date hereof. No attorney-client relationship exists or has existed with ESD by reason of our preparation, execution and delivery of this opinion letter. By providing this opinion letter and permitting reliance hereon by you, we are not acting as your counsel and have not assumed any responsibility to advise you with respect to the adequacy of this opinion letter for your purposes. This opinion letter may not be relied upon by any other person or for any other purpose or used, quoted or otherwise referred to for any other purpose.

Very truly yours,

EXHIBIT E: DISBURSEMENT TERMS

Disbursement

Upon compliance with the terms of this Agreement, and receipt of the fees as set forth below, ESD shall disburse the Grant to the Grantee as follows:

Fees due:

Commitment Fee:	$550,000.00 (One percent (1%) of grant amount)*
Reimbursement for out-of-pocket expenses	$ 1,023.51
TOTAL due:	$551,023.51

*The commitment fee shall be paid in five annual installments of $110,000; each installment payment shall be paid to ESD no later than October 1st of each year starting in 2023.

Up to $55 million will be advanced periodically into an account (the "Imprest Account") at a bank mutually acceptable to ESD (as set forth in writing by ESD), assuming that all project approvals have been completed and funds are available. Funds from the Imprest Account, from the time of deposit and until disbursed from such account in accordance with terms approved by the ESD Directors, will be invested in accordance with Exhibit I-1: ESD Investment Regulations. Interest earned on the funds deposited in the Imprest Account must be returned to ESD quarterly along with copies of all Imprest Account bank statements, starting when funds are deposited and continuing until all funds have been disbursed.

The Grantee may request funds from the Imprest Account to pay for eligible Project expenses monthly, unless otherwise approved by ESD, in accordance with Design and Construction requirements and in proportion to ESD's funding share of each individual sub-project, if applicable. The subsequent month's request will include current invoices as well as proof of payment for the previous month.

An Initial Advance will be deposited into the Imprest Account upon execution of the Grant Disbursement Agreement. Subsequent Advances are expected to be deposited based on full documentation of eligible expenses of 75% of the preceding Advance and 100% of any previous Advance(s); presentation of ESD of an invoice; and any other such documentation as ESD may reasonably require. All Advances will be based on a 6-12 month cash flow need as mutually agreed upon by the Grantee and ESD.

Eligible expenditures paid by ESD's grant must be incurred on or after September 1, 2022 to be considered eligible Project costs. All requests for payments must be requested by April 1, 2028; any funds remaining in the Imprest Account as of December 31, 2028 shall be returned to ESD. The final 10% of the grant will be retained until documentation supporting project completion has been received by ESD.

Payment will be made upon presentation to ESD of an invoice and such other documentation as ESD may reasonably require, in the form attached to this Agreement as Exhibit F and its attachments.

EXHIBIT E: DISBURSEMENT TERMS, continued

All disbursements are subject to recapture as set forth in Exhibit C.

ESD reserves the right to require additional documentation to support draw down requests.

Wire Transfer Information:
If ESD assistance is $10,000 or greater, please provide a Letter from a financial officer of the Grantee certifying to the accuracy of the following information:

Bank Name: _____

ABA #: _____

Account Name: _____

Account #: _____

EXHIBIT F: CAPITAL GRANT PAYMENT REQUISITION FORM

Northland Corridor Redevelopment Phase 3 Capital, Project #135,711 Disbursement Request Amount: $_____
ESD funds may be applied by Grantee in payment or reimbursement of the following costs:

Eligible Expenses	A: Actual Costs Incurred (this request)	B: ESD Share (this request)	C: Cumulative Amount Previously Received from ESD	D: Grant Amount (Cumulative if multi-year grant)	E: (D-C-B) Grant Balance Remaining
Planning, design, construction administration, construction and purchase & installation of equipment				$55,000,000	
TOTAL				$55,000,000	

CERTIFICATION

I hereby warrant and represent to Empire State Development ("ESD") that:

1) To the best of my knowledge, information and belief, the expenditures for which the Buffalo Urban Development Corporation is seeking payment and/or reimbursement comply with the requirements of the Agreement between ESD and the Buffalo Urban Development Corporation, are eligible expenses, and that the payment and/or reimbursement of expenditures for which it is seeking payment and/or reimbursement from ESD does not duplicate reimbursement or disbursement of costs and/or expenses from any other source. These findings will be subject to audit by ESD's Internal Audit Department.

2) I have the authority to submit this invoice on behalf of the Buffalo Urban Development Corporation. The project, or portion thereof for which this invoice relates, has been completed in the manner outlined in the Agreement.

3) I hereby attach the following documents for ESD approval, in support of this requisition (note N/A if not applicable for this request):
   - ___ Exhibit B: Design & Construction Requirements
   - ___ Exhibit F-2: Financial Condition Documentation
   - ___ Exhibit F-3: Project Cost Documentation
   - ___ Exhibit F-4: Project Cost Affidavit
   - ___ Exhibit G-2: Staffing Plan
   - ___ Exhibit G-3: Workforce Employment Utilization Report
   - ___ Exhibit G-4: M/WBE Utilization Plan
   - ___ Exhibit G-5: Waiver Request Form
   - ___ Exhibit G-6: M/WBE Contractor Compliance and Payment Report
   - ___ A copy of most recent Commitment Fee payment (due annually).
   - ___ A copy of all current policies of insurance (or certificates thereof) in full compliance with the terms and conditions of Section 12 of the Agreement

4) There have been no materially adverse changes in the financial condition of the Grantee, except as disclosed in writing to ESD, from the date of submission of the Application to the date hereof.

5) The Grantee has acted responsibly from the date of submission of the Application to the date hereof in full compliance with the terms and conditions of Section 7 of the Agreement.

6) Representations, Warranties and Covenants made in Section 8 of the Agreement are still true, complete and accurate, unless waived in Exhibit I of the Agreement.

Signature: _____ Print Name: _____

Title: _____ Date: _____

At any point in the course of your project, ESD would appreciate feedback regarding this ESD program. Please comment on the application, project approval, and/or payment reimbursement process or any other interactions with ESD related to the project. You may submit your feedback under separate cover to Glendon McLeary, Vice President and Director of Loans and Grants, 633 Third Avenue, NY, NY 10017. Please include your Project Number and Project Name which are listed at the top of this exhibit on your submission. Thank you.

EXHIBIT F-1: Grant Utilization Request Form ("GURF")
Withdrawal of Funds from Imprest Account

Northland Corridor Redevelopment Phase 3 Capital, 135,711 (attn: Jean Williams)

ESD funds may be applied by Grantee in payment or reimbursement of the following costs for the above-referenced project; **Submit a separate form for each withdrawal request and attach current invoices due and payable.**

GURF Request # ____ Vendor(s): _____ Amount: _____

SUMMARY OF INVOICES DUE AND PAYABLE: [An Excel spreadsheet of Exhibit F-3, will be supplied by ESD and is required to be attached to this form with each submission]

GURF #	Item #	Invoice Date	Invoice #	Vendor Name	Description	Certification Date	Amount Requested	Contract Balance
		[SEE ATTACHED SPREADSHEET PROVIDED BY GRANTEE]						
TOTAL								

PROGRAM FUNDING STATUS

1	Total Grant Amount	$55,000,000
2	Total Grant Funds Utilized/Requested to Date (including this request)	
3	Balance of Grant Funds to be Requested (Line 1 minus Line 2)	

CERTIFICATION

I hereby warrant and represent to Empire State Development ("ESD") that:

1) To the best of my knowledge, information and belief, the expenditures for which the Buffalo Urban Development Corporation is seeking authorization comply with the requirements of the Agreement between ESD and the Buffalo Urban Development Corporation, are Eligible Expenses, and that the payment, reimbursement, and/or approval of expenditures for which Grantee is seeking payment, reimbursement, or approval from ESD does not duplicate reimbursement or disbursement of costs and/or expenses from any other source.

2) I have the authority to submit this request on behalf of the Buffalo Urban Development Corporation. The required information has been submitted to ESD in the manner outlined in the Agreement.

3) Grantee is current on all reporting required by ESD, if applicable. If Grantee is not current on reporting, this request will not be considered.

4) There have been no materially adverse changes in the financial condition of the Grantee, except as disclosed in writing to ESD, from the date of submission of the Application to the date hereof.

5) The Grantee has acted responsibly from the date of submission of the Application to the date hereof in full compliance with the terms and conditions of Section 7 of the Agreement.

6) Representations, Warranties and Covenants made in Section 8 of the Agreement are still true, complete and accurate, unless waived in Exhibit I of the Agreement.

Signature:_____ Date:_____

Print Name: _____ Title: _____

EXHIBIT F-2 FINANCIAL CONDITION DOCUMENTATION

Buffalo Urban Development Corporation's most recent financial statements dated not more than 90 days prior to the disbursement date.

EXHIBIT F-3: DOCUMENTATION OF PROJECT COSTS
Northland Corridor Redevelopment Phase 3 Capital, Project #135,711
[Electronic form will be supplied by ESD]

GURF #	Item #	GURF Date	[Blank]	Invoice Date	Invoice #	Vendor Name	Description	Amount Requested	Vendor Contract Balance	Certificate Date
TOTAL:										

PREPARED BY: _____ DATE: _____

* Items shall be numbered 1, 2, 3, etc. Also indicate the corresponding item number clearly on any supporting documentation such as cancelled checks, bank statements and invoices. If construction is being documented with AIA forms, please be sure that all applicable sections are completed, signed & notarized. **PLEASE EMAIL AN EXCEL OF THIS FORM TO JEAN.WILLIAMS@ESD.NY.GOV WITH EACH GURF SUBMISSION**

EXHIBIT F-4: PROJECT COST AFFIDAVIT

Northland Corridor Redevelopment Phase 3 Capital, Project Number 135,711

STATE OF NEW YORK)
) ss.:
COUNTY OF)

The Undersigned, being duly sworn, deposes and says:

1. I,_____, am the_____ of _____ (the "Grantee"), a not-for-profit agency that is duly organized and validly existing under the laws of _____, and is authorized to do business and is in good standing in the State of New York.

2. I have read and know the contents of a certain Grant Disbursement Agreement (the "Agreement") executed by and between New York State Urban Development Corporation d/b/a Empire State Development ("ESD") and the Grantee dated the _____ day of _____, 20_____.

3. After having read and reviewed the Agreement, invoices and payments relating thereto, statements of cost and equity, and such other documents as I consider necessary to render the certifications contained herein, I do further certify, on the Grantee's behalf, that the costs for the project were incurred in the manner set forth in the Agreement, that all such costs are capital expenses in accordance with applicable state and federal law, and the **total cost of the project**** to date was equal to or greater than _____ _____ Dollars ($_____).

4. I make this affidavit and the certifications contained herein to induce ESD to disburse the grant under the terms of the Agreement, knowing that ESD will rely on the statements contained herein. I am aware that the swearing of a false oath is a Class A misdemeanor and may be a Class E felony.

_____
By:
Name:
Title:

Subscribed and sworn to before me
this _____ day of _____, 20__

_____
Notary Public

EXHIBIT G: PARTICIPATION BY MINORITY GROUP MEMBERS AND WOMEN WITH RESPECT TO STATE CONTRACTS: REQUIREMENTS AND PROCEDURES

I. General Provisions

A. Empire State Development (ESD) is required to implement the provisions of New York State Executive Law Article 15-A and 5 NYCRR Parts 142-144 ("MWBE Regulations") for all State contracts as defined therein, with a value (1) in excess of $25,000 for labor, services, equipment, materials, or any combination of the foregoing or (2) in excess of $100,000 for real property renovations and construction.

B. The Recipient of the subject Grant Disbursement Agreement (the "Recipient" and the "Contract," respectively) agrees, in addition to any other nondiscrimination provision of the Contract and at no additional cost to ESD, to fully comply and cooperate with the ESD in the implementation of New York State Executive Law Article 15-A. These requirements include equal employment opportunities for minority group members and women ("EEO") and contracting opportunities for certified minority and women-owned business enterprises ("MWBEs"). Recipient's demonstration of "good faith efforts" pursuant to 5 NYCRR §142.8 shall be a part of these requirements. These provisions shall be deemed supplementary to, and not in lieu of, the nondiscrimination provisions required by New York State Executive Law Article 15 (the "Human Rights Law") or other applicable federal, state or local laws.

C. Failure to comply with all of the requirements herein may result in a finding of non-responsiveness, non-responsibility and/or a breach of contract, leading to the withholding of funds or such other actions, liquidated damages pursuant to Section VII of this Appendix or enforcement proceedings as allowed by the Contract.

II. Contract Goals

A. For purposes of this Contract, the ESD hereby establishes an overall goal of 30% for Minority and Women-Owned Business Enterprises ("MWBE") participation, based on the current availability of qualified MBEs and WBEs.

B. For purposes of providing meaningful participation by MWBEs on the Contract and achieving the Contract Goals established in Section II-A hereof, Recipient should reference the directory of New York State Certified MWBEs found at the following internet address:

http://www.esd.ny.gov/mwbe.html

Additionally, Recipient is encouraged to contact the Division of Minority and Woman Business Development ((518) 292-5250; (212) 803-2414; or (716) 846-8200) to discuss additional methods of maximizing participation by MWBEs on the Contract.

C. Where MWBE goals have been established herein, pursuant to 5 NYCRR §142.8, Recipient must document "good faith efforts" to provide meaningful participation by MWBEs as subcontractors or suppliers in the performance of the Contract. In accordance with Section 316-a of Article 15-A and 5 NYCRR §142.13, the Recipient acknowledges that if Recipient is found to have willfully and intentionally failed to comply with the MWBE participation goals set forth in the Contract, such a finding

constitutes a breach of contract and the Recipient shall be liable to the ESD for liquidated or other appropriate damages, as set forth herein.

III. Equal Employment Opportunity (EEO)

A. Recipient agrees to be bound by the provisions of Article 15-A and the MWBE Regulations promulgated by the Division of Minority and Women's Business Development of the Department of Economic Development (the "Division"). If any of these terms or provisions conflict with applicable law or regulations, such laws and regulations shall supersede these requirements.

B. Recipient shall comply with the following provisions of Article 15-A:

1. Recipient and subcontractors shall undertake or continue existing EEO programs to ensure that minority group members and women are afforded equal employment opportunities without discrimination because of race, creed, color, national origin, sex, age, disability or marital status. For these purposes, EEO shall apply in the areas of recruitment, employment, job assignment, promotion, upgrading, demotion, transfer, layoff, or termination and rates of pay or other forms of compensation.

2. The Recipient shall submit an EEO policy statement to the ESD with the executed Contract.

3. If Recipient or subcontractor does not have an existing EEO policy statement, the ESD may provide the Recipient or subcontractor a model statement (see EXHIBIT G-1: M/WBE Participation/Equal Employment Opportunity Policy Statement).

4. The Recipient's EEO policy statement shall include the following language:

   a. The Recipient will not discriminate against any employee or applicant for employment because of race, creed, color, national origin, sex, age, disability or marital status, will undertake or continue existing EEO programs to ensure that minority group members and women are afforded equal employment opportunities without discrimination, and shall make and document its conscientious and active efforts to employ and utilize minority group members and women in its work force.

   b. The Recipient shall state in all solicitations or advertisements for employees that, in the performance of the Contract, all qualified applicants will be afforded equal employment opportunities without discrimination because of race, creed, color, national origin, sex, age, disability or marital status.

   c. The Recipient shall request each employment agency, labor union, or authorized representative of workers with which it has a collective bargaining or other agreement or understanding, to furnish a written statement that such employment agency, labor union, or representative will not discriminate on the basis of race, creed, color, national origin, sex age, disability or marital status and that such union or representative will affirmatively cooperate in the implementation of the Recipient's obligations herein.

   d. The Recipient will include the provisions of Subdivisions (a) through (c) of this Subsection 4 and Paragraph "E" of this Section III, which provides for relevant

provisions of the Human Rights Law, in every subcontract in such a manner that the requirements of the subdivisions will be binding upon each subcontractor as to work in connection with the Contract.

C. EXHIBIT G-2: Staffing Plan

To ensure compliance with this Section, the Recipient shall submit a staffing plan to document the composition of the proposed workforce to be utilized in the performance of the Contract by the specified categories listed, including ethnic background, gender, and Federal occupational categories. Recipients shall complete the Staffing plan form and submit it as part of the executed Contract.

D. EXHIBIT G-3: Work Force Employment Utilization Report ("Workforce Report")

1. Once a contract has been awarded and during the term of Contract, Recipient is responsible for updating and providing notice to the ESD of any changes to the previously submitted Staffing Plan. This information is to be submitted on a quarterly basis during the term of the contract to report the actual workforce utilized in the performance of the contract by the specified categories listed including ethnic background, gender, and Federal occupational categories. The Workforce Report must be submitted to report this information.
2. Separate forms shall be completed by Recipient and any subcontractor performing work on the Contract.
3. In limited instances, Recipient may not be able to separate out the workforce utilized in the performance of the Contract from Recipient's and/or sub's total workforce. When a separation can be made, Recipient shall submit the Workforce Report and indicate that the information provided related to the actual workforce utilized on the Contract. When the workforce to be utilized on the contract cannot be separated out from Recipient's and/or subcontractor's total workforce, Recipient shall submit the Workforce Report and indicate that the information provided is Recipient's total workforce during the subject time frame, not limited to work specifically under the contract.

E. Recipient shall comply with the provisions of the Human Rights Law, all other State and Federal statutory and constitutional non-discrimination provisions. Recipient and subcontractors shall not discriminate against any employee or applicant for employment because of race, creed (religion), color, sex, national origin, sexual orientation, military status, age, disability, predisposing genetic characteristic, marital status or domestic violence victim status, and shall also follow the requirements of the Human Rights Law with regard to non-discrimination on the basis of prior criminal conviction and prior arrest.

IV. MWBE Utilization Plan

A. The Recipient represents and warrants that Recipient has submitted an MWBE Utilization Plan (EXHIBIT G-4) either prior to, or at the time of, the execution of the Contract.

B. Recipient agrees to use such MWBE Utilization Plan for the performance of MWBEs on the Contract pursuant to the prescribed MWBE goals set forth in Section II-A of this Exhibit.

C. Recipient further agrees that a failure to submit and/or use such MWBE Utilization Plan shall constitute a material breach of the terms of the Contract. Upon the occurrence of such a material breach, ESD shall be entitled to any remedy provided herein, including but not limited to, a finding of Recipient non-responsiveness.

V. Waivers

A. For Waiver Requests Recipient should use the Waiver Request Form (EXHIBIT G-5).

B. If the Recipient, after making good faith efforts, is unable to comply with MWBE goals, the Recipient may submit a Request for Waiver form documenting good faith efforts by the Recipient to meet such goals. If the documentation included with the waiver request is complete, the ESD shall evaluate the request and issue a written notice of acceptance or denial within twenty (20) days of receipt.

C. If the ESD, upon review of the MWBE Utilization Plan and updated Quarterly MWBE Contractor Compliance Reports determines that Recipient is failing or refusing to comply with the Contract goals and no waiver has been issued in regards to such non-compliance, the ESD may issue a notice of deficiency to the Recipient. The Recipient must respond to the notice of deficiency within seven (7) business days of receipt. Such response may include a request for partial or total waiver of MWBE Contract Goals.

VI. Quarterly MWBE Contractor Compliance Report

Recipient is required to submit a Quarterly MWBE Contractor Compliance and Payment Report (EXHIBIT G-6) to the ESD by the 10th day following each end of quarter over the term of the Contract documenting the progress made towards achievement of the MWBE goals of the Contract.

VII. Liquidated Damages/Recapture - MWBE Participation

A. Where ESD determines that Recipient is not in compliance with the requirements of the Contract and Recipient refuses to comply with such requirements, or if Recipient is found to have willfully and intentionally failed to comply with the MWBE participation goals, Recipient shall be obligated to pay to the ESD liquidated damages or be subject to recapture of grant proceeds ("Recapture").

B. Such liquidated damages or Recapture shall be calculated as an amount equaling the difference between:

1. All sums identified for payment to MWBEs had the Recipient achieved the contractual MWBE goals; and

2. All sums actually paid to MWBEs for work performed or materials supplied under the Contract.

EXHIBIT G: PARTICIPATION BY MINORITY GROUP MEMBERS AND WOMEN WITH RESPECT TO STATE CONTRACTS: REQUIREMENTS AND PROCEDURES

C. In the event a determination has been made which requires the payment of liquidated damages (and such identified sums have not been withheld by the ESD) or Recapture, Recipient shall pay such liquidated damages or Recapture to the ESD within sixty (60) days after they are assessed by the ESD unless prior to the expiration of such sixtieth day, the Recipient has filed a complaint with the Director of the Division of Minority and Woman Business Development pursuant to Subdivision 8 of Section 313 of the Executive Law in which event the liquidated damages or Recapture shall be payable if Director renders a decision in favor of the ESD.

NEW YORK STATE OF OPPORTUNITY | Empire State Development

EXHIBIT G-1: OFFICE OF CONTRACTOR AND SUPPLIER DIVERSITY

M/WBE PARTICIPATION / EQUAL EMPLOYMENT OPPORTUNITY POLICY STATEMENT

I, Angelo Rhodes II (REPRESENTATIVE), of the Project Manager (AWARDEE/CONTRACTOR) agree to adopt the following policies with respect to the project being developed or services rendered at the Buffalo Urban Development Corporation

M/WBE PARTICIPATION (M/WBE)

This organization will and will cause its contractors and subcontractors to take good faith actions to achieve the M/WBE contract participations goals set by the State for that area in which the State-funded project is located, by taking the following steps:

(1) Actively and affirmatively solicit bids for contracts and subcontracts from qualified State certified MBEs or WBEs, including solicitations to M/WBE contractor associations.

(2) Request a list of State-certified M/WBEs from ESD's Office of Contractor and Supplier Diversity and solicit bids from them directly.

(3) Ensure that plans, specifications, request for proposals and other documents used to secure bids will be made available in sufficient time for review by prospective M/WBEs.

(4) Where feasible, divide the work into smaller portions to enhance participations by M/WBEs and encourage the formation of joint venture and other partnerships among M/WBE contractors to enhance their participation.

(5) Document and maintain records of bid solicitation, including those to M/WBEs and the results thereof. Contractor will also maintain records of actions that its subcontractors have taken toward meeting M/WBE contract participation goals.

(6) Ensure that progress payments to M/WBEs are made on a timely basis so that undue financial hardship is avoided, and that bonding and other credit requirements are waived or appropriate alternatives developed to encourage M/WBE participation.

EQUAL EMPLOYMENT OPPORTUNITY POLICY (EEO)

(a) This organization will not discriminate against any employee or applicant for employment because of race, creed, color, national origin, sex, age, disability or marital status, will undertake or continue existing programs of affirmative action to ensure that minority group members are afforded equal employment opportunities without discrimination, and shall make and document its conscientious and active efforts to employ and utilize minority group members and women in its work force on state contracts.

(b) This organization shall state in all solicitation or advertisements for employees that in the performance of the State contract all qualified applicants will be afforded equal employment opportunities without discrimination because of race, creed, color, national origin, sex disability or marital status.

(c) At the request of the contracting agency, this organization shall request each employment agency, labor union, or authorized representative will not discriminate on the basis of race,

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EXHIBIT G-1: OFFICE OF CONTRACTOR AND SUPPLIER DIVERSITY

M/WBE PARTICIPATION / EQUAL EMPLOYMENT OPPORTUNITY POLICY STATEMENT

creed, color, national origin, sex, age, disability or marital status and that such union or representative will affirmatively cooperate in the implementation of this organization's obligations herein.

(d) This organization will include the provisions of sections (a) through (c) of this agreement in every subcontract in such a manner that the requirements of the subdivisions will be binding upon each subcontractor as to work in connection with the State contract.

Agreed on this November 13, 2023.

By: _____
(SIGNATURE)

Print Name: Angelo Rhodes II

Title: Project Manager | Northland Corridor

Minority Business Enterprise Liaison

Angelo Rhodes II (Name of Designated Liaison) is designated as the Minority Business Enterprise Liaison responsible for administering the Minority and Women-Owned Business Enterprises- Equal Employment Opportunity (M/WBE-EEO) program.

M/WBE Contract Goals

30% Minority/Women's Business Enterprise Participation

EEO Contract Goals

0 % Minority Labor Force Participation

0 % Female Labor Force Participation

_____
(Authorized Representative)

Print Name: Angelo Rhodes II

Title: Project Manager | Northland Corridor

Date: 11/13/2023

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EXHIBIT G-2 - STAFFING PLAN

(REQUIRED ONLY OF CONTRACTS VALUED AT $250,000 OR MORE)

OFFICE OF CONTRACTOR AND SUPPLIER DIVERSITY

Submit with Bid or Proposal – Instructions on page 2

Contract/Project No.:	**Contract/Project Title:**	**Report includes Contractor's/Subcontractor's:** □ Work force to be utilized on this contract □ Total work force □ Offeror □ Subcontractor **Subcontractor's name** _____
Contractor/Grantee Name:		
Contractor/Grantee Address:		

Enter the total number of employees for each classification in each of the EEO-Job Categories identified.

EEO-Job Category	Total Work force	Work force by Gender			Work force by Race/Ethnic Identification																				
		Total Male (M)	Total Female (F)	Total X (X)	White (M)	White (F)	White (X)	Black (M)	Black (F)	Black (X)	Hispanic (M)	Hispanic (F)	Hispanic (X)	Asian (M)	Asian (F)	Asian (X)	Native American (M)	Native American (F)	Native American (X)	Disabled (M)	Disabled (F)	Disabled (X)	Veteran (M)	Veteran (F)	Veteran (X)
Officials/Administrators																									
Professionals																									
Technicians																									
Sales Workers																									
Office/Clerical																									
Craft Workers																									
Laborers																									
Service Workers																									
Temporary /Apprentices																									
Totals																									

PREPARED BY (Signature):	**TELEPHONE NO.:** **EMAIL ADDRESS:**	**DATE:**
NAME AND TITLE OF PREPARER (Print or Type):		

NEW YORK STATE OF OPPORTUNITY. | Empire State Development

EXHIBIT G-2 - STAFFING PLAN

(REQUIRED ONLY OF CONTRACTS VALUED AT $250,000 OR MORE)

OFFICE OF CONTRACTOR AND SUPPLIER DIVERSITY

General Instructions: All Contractors and each subcontractor identified in the bid or proposal must complete an EEO Staffing Plan (Form OCSD-2) and submit it as part of the bid or proposal package. Where the work force to be utilized in the performance of the State contract can be separated out from the contractor's and/or Subcontractor's total work force, the Contractor shall complete this form only for the anticipated work force to be utilized on the State contract. Where the work force to be utilized in the performance of the State contract cannot be separated out from the contractor's and/or Subcontractor's total work force, the Contractor shall complete this form for the contractor's and/or Subcontractor's total work force.

Instructions:

1. Enter the Contract or Solicitation number that this report applies to along with the name and address of your company or organization.
2. Check off the appropriate box to indicate if the Contractor completing the report is the contractor or a subcontractor.
3. Check off the appropriate box to indicate work force to be utilized on the contract or the Contractor's total work force.
4. Enter the total work force by EEO job category.
5. Break down the anticipated total work force by gender and enter under the heading 'Work force by Gender'
6. Break down the anticipated total work force by race/ethnic identification and enter under the heading 'Work force by Race/Ethnic Identification'. Contact the M/WBE Permissible contact(s) for the solicitation if you have any questions.
7. Enter information on disabled or veterans included in the anticipated work force under the appropriate headings.
8. Enter the name and contact details of the person completing the form. Sign and date the form in the designated boxes.

RACE/ETHNIC IDENTIFICATION:

Race/ethnic designations as used by the Equal Employment Opportunity Commission do not denote scientific definitions of anthropological origins. For the purposes of this report, an employee may be included in the group to which he or she appears to belong, identifies with, or is regarded in the community as belonging. However, no person should be counted in more than one race/ethnic group. The race/ethnic categories for this survey are:

- **WHITE** (Not of Hispanic origin) All persons having origins in any of the original peoples of Europe, North Africa, or the Middle East.
- **BLACK** a person, not of Hispanic origin, who has origins in any of the black racial groups of the original peoples of Africa.
- **HISPANIC** a person of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish culture or origin, regardless of race.
- **ASIAN & PACIFIC ISLANDER** a person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent or the Pacific Islands.
- **NATIVE INDIAN (NATIVE AMERICAN/ALASKAN NATIVE)** a person having origins in any of the original peoples of North America, and who maintains cultural identification through tribal affiliation or community recognition.

OTHER CATEGORIES:

- **DISABLED INDIVIDUAL** any person who:
  - has a physical or mental impairment that substantially limits one or more major life activity(ies)
  - has a record of such an impairment; or
  - is regarded as having such an impairment.
- **VIETNAM ERA VETERAN** a veteran who served at any time between and including January 1, 1963 and May 7, 1975.
- **GENDER** Male, Female, or "X"

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EXHIBIT G-3: OFFICE OF CONTRACTOR AND SUPPLIER DIVERSITY

WORKFORCE EMPLOYMENT UTILIZATION REPORT

Contract No.:	**Reporting Entity:** ☐ Contractor ☐ Subcontractor	**Reporting Period:** ☐ January 1, 20 - March 31, 20 ☐ April 1, 20 - June 30, 20 ☐ July 1, 20 - September 30, 20 ☐ October 1, 20 - December 31, 20
Contractor's Name:		**Report includes:** ☐ Work force to be utilized on this contract ☐ Contractor/Subcontractor's total work force
Contractor's Address:		

Enter the total number of employees in each classification in each of the EEO-Job categories identified.

EEO - Job Category	Total Work Force	Work force by Gender		Work force by Race/Ethnic Identification													
		Male (M)	Female (F)	White (M)	White (F)	Black (M)	Black (F)	Hispanic (M)	Hispanic (F)	Asian (M)	Asian (F)	Native American (M)	Native American (F)	Disabled (M)	Disabled (F)	Veteran (M)	Veteran (F)
Officials/Administrators																	
Professionals																	
Technicians																	
Sales Workers																	
Office/Clerical																	
Craft Workers																	
Laborers																	
Service Workers																	
Temporary / Apprentices																	
Totals																	

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EXHIBIT G-3: OFFICE OF CONTRACTOR AND SUPPLIER DIVERSITY

WORKFORCE EMPLOYMENT UTILIZATION REPORT

Submit the above completed form to:

Empire State Development
Office of Contractor and Supplier Diversity
633 Third Avenue, 33rd Floor
New York, NY 10017

General Instructions: The work force utilization (M/WBE **102)** is to be submitted on a quarterly basis during the life of the contract to report the actual work force utilized in the performance of the contract broken down by the specified categories. When the work force utilized in the performance of the contract can be separated out from the contractor's and/or subcontractor's total work force, the contractor and/or subcontractor shall submit a Utilization Report of the work force utilized on the contract. When the work force to be utilized on the contract cannot be separated out from the contractor's and/or subcontractor's total work force, information on the total work force shall be included in the Utilization Report. Utilization reports are to be completed for the quarters ended 3/31, 6/30, 9/30 and 12/31 and submitted to the M/WBE Program Management Unit within 15 days of the end of each quarter. If there are no changes to the work force utilized on the contract during the reporting period, the contractor can submit a copy of the previously submitted report indicating no change with the date and reporting period updated.

Instructions for completing:

1. Enter the number of the contract that this report applies to along with the name and address of the Contractor preparing the report.
2. Check off the appropriate box to indicate if the entity completing the report is the contractor or a subcontractor.
3. Check off the box that corresponds to the reporting period for this report.
4. Check off the appropriate box to indicate if the work force being reported is just for the contract or the Contractor's total work force.
5. Enter the total work force by EEO job category.
6. Break down the total work force by gender and enter under the heading 'Work force by Gender'
7. Break down the total work force by race/ethnic background and enter under the heading 'Work force by Race/Ethnic Identification'. Contact the M/WBE Program Management Unit at (518) 474-5513 if you have any questions.
8. Enter information on any disabled or veteran employees included in the work force under the appropriate heading.
9. Enter the name, title, phone number and email address for the person completing the form. Sign and date the form in the designated boxes.

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EXHIBIT G-3: OFFICE OF CONTRACTOR AND SUPPLIER DIVERSITY

WORKFORCE EMPLOYMENT UTILIZATION REPORT

RACE/ETHNIC IDENTIFICATION

Race/ethnic designations as used by the Equal Employment Opportunity Commission do not denote scientific definitions of anthropological origins. For the purposes of this report, an employee may be included in the group to which he or she appears to belong, identifies with, or is regarded in the community as belonging. However, no person should be counted in more than one race/ethnic group. The race/ethnic categories for this survey are:

- **WHITE** (Not of Hispanic origin) All persons having origins in any of the original peoples of Europe, North Africa, or the Middle East.
- **BLACK** a person, not of Hispanic origin, who has origins in any of the black racial groups of the original peoples of Africa.
- **HISPANIC** a person of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish culture or origin, regardless of race.
- **ASIAN & PACIFIC ISLANDER** a person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent or the Pacific Islands.
- **NATIVE INDIAN (NATIVE AMERICAN/ALASKAN NATIVE)** a person having origins in any of the original peoples of North America, and who maintains cultural identification through tribal affiliation or community recognition.

OTHER CATEGORIES

- **DISABLED INDIVIDUAL** any person who:
  - has a physical or mental impairment that substantially limits one or more major life activity(ies)
  - has a record of such an impairment; or
  - is regarded as having such an impairment.
- **VIETNAM ERA VETERAN** a veteran who served at any time between and including January 1, 1963 and May 7, 1975.
- **GENDER** Male or Female

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OFFICE OF CONTRACTOR AND SUPPLIER DIVERSITY

Exhibit G-4

MWBE AND SDVOB UTILIZATION PLAN

INSTRUCTIONS: This form must be submitted with any bid, proposal, or proposed negotiated contract or within a reasonable time thereafter, but prior to contract award. This MWBE and SDVOB Utilization Plan must contain a detailed description of the supplies and/or services to be provided by each certified Minority and Women-owned Business Enterprise (M/WBE) and/or Service Disabled Veteran Owned Business (SDVOB) under the contract. Attach additional sheets if necessary.

* indicates mandatory fields

***Contractor Name:**

***Representative Name:** **Town, State & Zip:**

***Phone:**

***Fax:**

***Email:**

***Total Dollar Value of Contract/Grant: $__**

Address:

***ESD Contract/Project Number:**

RFP/RFQ/Solicitation Number:

***MWBE Goal:** MBE __% + WBE __% = **MWBE GOAL __%**

***SDVOB Goal:** __%

1. * Certified MWBE or SDVOB Firm Name, Contact Person's Name, Address, Phone and Email.	2. * Check All That Apply	3. * Federal ID No.	4. *Detailed Description of Work (Attach additional sheets, if necessary, Attach Contract if available)	5. *Check Firm Type That Applies for Work Completed on this Project	6. *Dollar Value of Contract (if unavailable or yet undetermined, indicate $1)
A.	NYS CERTIFIED ☐ MBE ☐ WBE ☐ SDVOB			☐ Subcontractor ☐ Subconsultant ☐ Materials Supplier ☐ Trade Agents/Brokers	
B.	NYS CERTIFIED ☐ MBE ☐ WBE ☐ SDVOB			☐ Subcontractor ☐ Subconsultant ☐ Materials Supplier ☐ Trade Agents/Brokers	

NEW YORK STATE OF OPPORTUNITY. | Empire State Development

OFFICE OF CONTRACTOR AND SUPPLIER DIVERSITY

Exhibit G-4

MWBE AND SDVOB UTILIZATION PLAN

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7. If unable to fully meet the MWBE and/or SDVOB goals set forth in the contract, the Contractor must submit a Waiver Request form, which may be obtained from the Office of Contractor and Supplier Diversity, at OCSD@ESD.NY.GOV.

PREPARED BY (Signature): _____ **DATE:** _____

Preparer's Name (Print or Type): _____

Preparer's Title: _____

Date: _____

SUBMISSION OF THIS FORM CONSTITUTES THE CONTRACTOR'S ACKNOWLEDGEMENT AND AGREEMENT TO COMPLY WITH THE MWBE AND SDVOB REQUIREMENTS SET FORTH UNDER NYS EXECUTIVE LAW ARTICLES 15-A AND 17-B, 5 NYCRR PART 143, 9 NYCRR PART 252, AND THE ABOVE-REFERENCED SOLICITATION. FAILURE TO SUBMIT COMPLETE AND ACCURATE INFORMATION MAY RESULT IN A FINDING OF NONCOMPLIANCE AND POSSIBLE TERMINATION OF YOUR CONTRACT.

The MWBE Certification status of the firms listed on this form **MUST** be verified using the New York State Contract System's Directory of Certified Minority and Women-owned Business Enterprises.
This directory is available at https://ny.newnycontracts.com.

The SDVOB Certification status of the firms listed on this form **MUST** be verified using the Directory of New York State Certified Service-Disabled Veteran-Owned Businesses.
This directory is available at https://online.ogs.ny.gov/SDVOB/search.

TELEPHONE NO.:	**EMAIL ADDRESS:**

Policy Regarding Use of MWBE Suppliers and Brokers

Only sums paid to MWBEs for the performance of a commercially useful function, as that term is defined in 5 NYCRR § 140.1, may be applied towards the achievement of the applicable MWBE participation goal.

FOR CONSTRUCTION/CAPITAL PROJECTS – The portion of a contract with an MWBE serving as a supplier that shall be deemed to represent the commercially useful function performed by the MWBE shall be 60% of the total value of the contract. The portion of a contract with an MWBE serving as a broker that shall be deemed to represent the commercially useful function performed by the MWBE shall be the monetary value for fees, or the markup percentage, charged by the MWBE.

FOR ALL OTHER PROJECTS - The portion of a contract with an MWBE serving as a broker that shall be deemed to represent the commercially useful function performed by the MWBE shall be 25% of the total value of the contract.

**** FOR OCSD USE ONLY ****

REVIEWED BY:	**DATE:**

UTILIZATION PLAN APPROVED?
☐ YES ☐ PARTIAL ☐ NO Date:

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EXHIBIT G-5: OFFICE OF CONTRACTOR AND SUPPLIER DIVERSITY

WAIVER REQUEST FORM

Waiver Applicant	
Offeror / Contractor Name:	Fed ID No.:
Address:	Solicitation/Contract No.:
City, State, Zip Code:	M/WBE Goals: MBE: __% WBE: __%

By submitting this form and the required information, the offeror / contractor certifies that every "Good Faith Effort" has been taken to promote M/WBE participation pursuant to the M/WBE requirements set forth under the contract. Review 5 NYCRR §142.8, Contractor's Good Faith Efforts, on page 2 of this form for the precise definition of "Good Faith Effort".

Contractor is requesting a:

1. ☐ MBE Waiver – A waiver of the MBE Goal for this procurement is requested.
   ☐ Total ☐ Partial
2. ☐ WBE Waiver – A waiver of the WBE Goal for this procurement is requested.
   ☐ Total ☐ Partial
3. ☐ Waiver Pending ESD Certification – (Check here if subcontractors or suppliers of Contractor are not certified M/WBE, but an application for certification has been filed with Empire State Development).

   Date of such filing with Empire State Development Corporation: __

PREPARED BY (Signature): _____ Date: __

SUBMISSION OF THIS FORM CONSTITUTES THE OFFEROR/CONTRACTOR'S ACKNOWLEDGEMENT AND AGREEMENT TO COMPLY WITH THE M/WBE REQUIREMENTS SET FORTH UNDER NYS EXECUTIVE LAW, ARTICLE 15-A AND 5 NYCRR PART 143. FAILURE TO SUBMIT COMPLETE AND ACCURATE INFORMATION MAY RESULT IN A FINDING OF NONCOMPLIANCE AND/OR TERMINATION OF THE CONTRACT.

Name and Title of Preparer (Printed or Typed):	**Telephone Number:**	**Email Address:**

Submit with the bid or proposal or if submitting after award submit to:

Empire State Development
Office of Contractor and Supplier Diversity
633 Third Avenue, 33rd Floor
New York, New York 10017

******* FOR M/WBE USE ONLY *******

REVIEWED BY:	**DATE:**

Waiver Granted: ☐ **YES** **MBE:** ☐ **WBE:** ☐

☐ **Total Waiver** ☐ **Partial Waiver**

☐ **ESD Certification Waiver** ☐ ***Conditional**

☐ **Notice of Deficiency Issued** __

* **Comments:**

NEW YORK STATE OF OPPORTUNITY | Empire State Development

EXHIBIT G-5: OFFICE OF CONTRACTOR AND SUPPLIER DIVERSITY

WAIVER REQUEST FORM

5 NYCRR §142.8 - Contractor's Good Faith Efforts

(a) The contractor must document its good faith efforts toward meeting certified minority and women-owned business enterprise utilization plans by providing, at a minimum:

(1) Copies of its solicitations of certified minority and women-owned business enterprises and any responses thereto;

(2) If responses to the contractor's solicitations were received, but a certified minority or woman-owned business enterprise was not selected, the specific reasons that such enterprise was not selected;

(3) Copies of any advertisements for participation by certified minority and women-owned business enterprises timely published in appropriate general circulation, trade and minority or women-oriented publications, together with the listing(s) and date(s) of the publication of such advertisements;

(4) Copies of any solicitations of certified minority and/or women-owned business enterprises listed in the directory of certified businesses;

(5) The dates of attendance at any pre-bid, pre-award, or other meetings, if any, scheduled by the State agency awarding the State contract, with certified minority and women-owned business enterprises which the State agency determined were capable of performing the State contract scope of work for the purpose of fulfilling the contract participation goals;

(6) Information describing the specific steps undertaken to reasonably structure the contract scope of work for the purpose of subcontracting with, or obtaining supplies from, certified minority and women-owned business enterprises.

(b) In addition to the information provided by the contractor in paragraph (a) above, the State agency may also consider the following to determine whether the contractor has demonstrated good faith efforts:

(1) Whether the contractor submitted an alternative utilization plan consistent with the subcontract or supplier opportunities in the contract;

(2) The number of certified minority and women-owned business enterprises in the region listed in the directory of certified businesses that could, in the judgment of the State agency, perform work required by the State contract scope of work;

(3) The actions taken by the contractor to contact and assess the ability of certified minority and women-owned business enterprises located outside of the region in which the State contract scope of work is to be performed to participate on the State contract;

(4) Whether the contractor provided relevant plans, specifications or terms and conditions to certified minority and women-owned business enterprises sufficiently in advance to enable them to prepare an informed response to a contractor request for participation as a subcontractor or supplier;

(5) The terms and conditions of any subcontract or provision of suppliers offered to certified minority or women-owned business enterprises and a comparison of such terms and conditions

NEW YORK STATE OF OPPORTUNITY. | Empire State Development

Exhibit G-6

OFFICE OF CONTRACTOR AND SUPPLIER DIVERSITY

MWBE AND SDVOB COMPLIANCE AND PAYMENT REPORT

CONTRACTOR/GRANTEE:
ADDRESS:
TOWN/COUNTY/ZIP:
CONTACT PERSON:
TELEPHONE:
EMAIL:

ESD OCSD REPRESENTATIVE:
CONTRACT/PROJECT NAME:
CONTRACT/PROJECT #:
PROJECT START DATE:
PERCENT COMPLETE:
ACTUAL COMPLETION DATE:

REPORTING PERIOD: ☐ **Monthly for the Month of:** (Month) (Year)
☐ **Quarterly (Check Applicable):** ☐ **Quarter 1 (4/1-6/30)** | ☐ **Quarter 2 (7/1-9/30)** | ☐ **Quarter 3 (10/1-12/31)** | ☐ **Quarter 4 (1/1-3/31)**

Attach MWBE and SDVOB executed contracts, wire transfer confirmations and cancelled checks as proof of payment to the identified MWBEs and SDVOBs. This report should be completed and signed by an officer of the Reporting Company. Attach additional sheets if necessary.

PRIME CONTRACTOR, if different from above (Name, Address, Contact Person, Title and Phone # with area code)	PRIME CONTRACT AMOUNT	MWBE or SDVOB SUBCONTRACTOR (Name, Address, Contact Person, Title and Phone # with area code)	NYS CERTIFICATION (Check One)	DESCRIPTION OF SERVICES	CONTRACT AMOUNT	PAYMENTS PREVIOUSLY REPORTED	PAYMENTS ON CURRENT REPORT	TOTAL PAYMENTS TO DATE
	$		☐ MBE ☐ WBE ☐ SDVOB		$	$	$	$
	$		☐ MBE ☐ WBE ☐ SDVOB		$	$	$	$
	$		☐ MBE ☐ WBE ☐ SDVOB		$	$	$	$

CERTIFICATION: I, __ (Print Name), the __ (Title) of the Reporting Company above, do certify that (i) I have read this Compliance Report and (ii) to the best of my knowledge, information and belief, the information contained herein is complete and accurate.

SIGNATURE: _____ **DATE:** _____

Submission of this form constitutes the Contractor's acknowledgement as to the accuracy of the information contained herein. Failure to submit complete and accurate information may result in a finding of noncompliance, non-responsibility, suspension and/or termination of the Contract.

NEW YORK STATE OF OPPORTUNITY. | Empire State Development

Exhibit G-6

OFFICE OF CONTRACTOR AND SUPPLIER DIVERSITY

MWBE AND SDVOB COMPLIANCE AND PAYMENT REPORT

SUBMIT REPORT TO: Office of Contractor and Supplier Diversity
Empire State Development
633 Third Avenue, 35th Floor
New York, NY 10017

Completed forms may be emailed directly to OCSD at ocsd@esd.ny.gov. All email submissions must include ESD's project/contract number(s), and the name and contact information of the individual or firm submitting the information.

QUESTIONS? Please contact the OCSD's Compliance Managers or email the office at ocsd@esd.ny.gov.

Danielle Adams	**Danah Alexander**	**Kelly Forsey**	**Jordan Kaplan**	**Denise Ross**
(518) 474-2569	(212) 803-3244	(716) 846-8238	(212) 803-3659	(212) 803-3226
Danielle.Adams@esd.ny.gov	Danah.Alexander@esd.ny.gov	Kelly.forsey@esd.ny.gov	Jordan.kaplan@esd.ny.gov	Denise.Ross@esd.ny.gov
REGIONS:				
Capital District Mohawk Valley SUNY Poly Portfolio Department of Economic Development ESD Procurement Contracts ESD Subsidiaries – CCDC, QWDC, LMDC, ESNMC	North Country NYC- Brooklyn, Bronx, Queens Long Island ESD Subsidiaries – HCDC, MSDC	Finger Lakes Western New York ESD Subsidiaries – ECHDC, USA Niagara	Central NY Southern Tier ESD Subsidiary – AYCDC	Mid-Hudson NYC- Manhattan Staten Island

EXHIBIT H: REPORT OF EMPLOYMENT

Intentionally Deleted

EXHIBIT I: SPECIAL PROVISIONS

In the event of any conflict between Exhibit A of this Agreement and any other provisions of this Agreement, the terms of such other provisions shall govern.

The following sections of the Terms and Conditions of this Agreement are waived: Section 2; Section 3(e); the reference to "Exhibit H" in Section 4(a); Section 8(i); Section 9(a)(iv) and Section 9(a)(vii).

Neither the Grant, nor any equipment or facility funded in part or whole by the Grant, shall be used at any time or in any manner for religious worship, instruction or proselytizing.

ESD assistance for the Solar Microgrid Capital grant (#133,857) and Buffalo-RESTORE V grant (AD009) shall be governed by separate agreements.

All references to "Project Location" shall mean "Project Locations."

Grantee shall demonstrate compliance with protocols recommended by Guidepost Solutions with each disbursement request, which include the following:

- Grantee shall be required to demonstrate to ESD's satisfaction, that project costs to be paid for by ESD funds are incurred in arms-length transactions;
- Grantee shall be required to procure materials, contractors and services to be paid for with ESD grant funds in accordance with a competitive procurement process approved by ESD;
- Grantee shall be required to submit standard AIA documentation and other appropriate documentation supporting construction related costs that are to be paid by ESD grant funds;
- Grantee shall be required for each payment to submit a certification confirming the lack of bribery, collusion and the fair price of invoices submitted.
- Grantee shall be required to submit additional documentation to verifying project expenses as may be required by ESD.

The Grantee shall follow all stipulations included in the Memorandum of Agreement ("MOA") entered in into with the New York State Historic Preservation Officer ("SHPO") and the Buffalo Urban Renewal Agency, and concurred upon by ESD in February 2017, and subsequently amended/extended by agreement on August 9, 2023, which resulted from the SHPO consultation process for the Northland campus in accordance with Section 106 of the National Historic Preservation. In the event that the Grantee needs to amend or change any of the MOA stipulations, it shall follow Section 106 requirements and be coordinated with consulting parties previously involved.

EXHIBIT I: SPECIAL PROVISIONS, continued

Under the terms of ESD Grant No. Z415 approved by the ESD Board of Directors on April 21, 2016 for Phase 1 of the Northland Corridor Redevelopment—which involved rehabilitation of 683 Northland Avenue to house the Western New York (now "Northland") Workforce Training Center—BUDC agreed to make available space at 683 Northland Avenue available for ESD (or any other designated entity by ESD) for the Northland Workforce Training Center and/or other economic development uses at ESD's discretion at a rental cost of $1/year (plus utilities, taxes, and common area maintenance [CAM] charges) unless otherwise agreed by ESD.

EXHIBIT I-1: ESD INVESTMENT REGULATIONS
(with respect to funds in the Imprest Account)

Permissible Investments

The Grantee shall cause all Grant funds in the Imprest Account (as defined in Exhibit F) to be invested in any and all of the following, if and to the extent permitted by statutes, regulations and bond resolutions applicable at the time of investment:

1) Any bonds and other obligations which as to principal and interest constitute direct obligations of, or are unconditionally guaranteed by the United States of America;

2) Any bonds and other obligations which as to principal and interest constitute direct obligations of the State or ESD or which are unconditionally guaranteed by the State as to payment of principal and interest;

3) Prime Commercial Paper issued by domestic banks, corporations and financial companies rated "A-1" or "P-1" by Standard & Poor's Corporation or Moody's Investors Service, Inc.;

4) Certificates of Deposit of banks or trust companies authorized to do business in this State, including commercial banks who participate in New York State Excelsior Linked Deposit programs and are authorized program depositories, which certificates of deposit are fully insured by the Federal Deposit Insurance Corporation or fully secured by securities of the character described in (1) or (2) above;

5) Units, shares or interest in a mutual fund or money market fund of regulated investment companies which seek to maintain a constant net asset value per share of $1.00 and have been rated in one of the two highest categories by at least one nationally recognized ratings organization and invests in instruments described in (1) or (2) above.

NEW YORK STATE OF OPPORTUNITY. | Empire State Development

September 30, 2024

Ms. Brandye Merriweather, President
Buffalo Urban Development Corporation
95 Perry Street, Suite 404
Buffalo, NY 14203

Re: Northland Corridor Redevelopment Phase 3 Capital and Working Capital, Project #135,711

Dear Ms. Merriweather:

It is noted that a Grant Disbursement Agreement ("GDA") has been executed between the New York State Urban Development Corporation d/b/a Empire State Development ("ESD") and Buffalo Urban Development Corporation dated November 2, 2023, for the above-referenced project.

I am pleased to transmit a signed GDA Amendment that will become effective upon your return of one fully executed copy to ESD.

Please contact Jean Williams, your Project Manager, at (716) 846-8243 should you have any questions.

Very truly yours,

Glendon McLeary
Vice President and Director of Loans & Grants

C: Jean Williams
Karen Utz
Jennifer Kensy

GRANT DISBURSEMENT AGREEMENT AMENDMENT by and between the New York State Urban Development Corporation d/b/a Empire State Development ("ESD") and Buffalo Urban Development Corporation (the "Grantee").

ESD and the Grantee have entered into a Grant Disbursement Agreement with respect to the Project described below and desire to amend such agreement on the following terms:

PROJECT NAME:	Northland Corridor Redevelopment Phase 3 Capital and Working Capital
PROJECT NUMBER:	135,711
ORIGINAL GRANT AMOUNT:	$55,000,000 Capital Grant
REVISED GRANT AMOUNT:	$49,000,000 Capital Grant $ 6,000,000 Working Capital Grant
ESD APPROVAL DATE:	April 20, 2023
PACB APPROVAL DATE:	May 17, 2023

Additional terms and conditions, if any, are set forth in Attachment A.

All other terms and conditions of the Grant Disbursement Agreement, except as modified herein, shall remain in full force and effect.

This agreement is entered into as of the latest date written below:

NEW YORK STATE URBAN DEVELOPMENT CORPORATION
d/b/a EMPIRE STATE DEVELOPMENT



September 30, 2024

(Signature) Glendon McLeary, Vice President and Director of Loans & Grants (date)

Buffalo Urban Development Corporation

Brandye Merriweather

September 30, 2024

(Signature) (date)

Brandye Merriweather, BUDC President

(Printed name and title)

Rev. 12/10/20

Attachment A

Contents

Additional Conditions: none
Added Report (Exhibit B-1)
Revised Disbursement Terms (Exhibit E; revised as of September 30, 2024)
Revised Payment Requisition Form (Exhibit F; revised as of September 30, 2024)
Revised Grant Utilization Request Form (Exhibit F-1; revised as of September 30, 2024)
Revised Project Cost Documentation (Exhibit F-3; revised as of September 30, 2024)
Revised Project Cost Affidavit (Exhibit F-4; revised as of September 30, 2024)
Revised Special Provisions (Exhibit I; revised as of September 30, 2024)

EXHIBIT B-1: Report

Northland Corridor Redevelopment Phase 3 Capital and Working Capital, Project #135,711

(Added September 30, 2024)

Interim reports for this project are required to be submitted quarterly, as well as a Final Report upon Project Completion.

Date of report: _____ Type of report: Interim (#___) Final ____

Amount of Grant: **$55,000,000** Total Program Cost: $_____

Project start date: _____ Project completion date: _____

Attach additional pages to answer the following questions:

I. Describe the goals of the project.

II. Describe the steps implemented to achieve those goals (to date).

III. Describe the status of each of the seven sub-projects to-date, including but not limited to:

Design:

Has design started? Yes/No

a. Design start date:
b. Expected start date:

Is design complete? Yes/No

a. Completion date:
b. Expected completion date:
c. Percent complete:
d. On Schedule? Yes/No

Construction:

Has construction started? Yes/No

a. Start date:
b. Expected start date:

Is construction complete? Yes/No

a. Completion date:
b. Expected completion date:
c. Percent complete:
d. On schedule? Yes/No

Narrative Section: (for each sub-project)

IV. Evaluate the Project's overall effectiveness (to date).

EXHIBIT B-1: Report, continued

Northland Corridor Redevelopment Phase 3 Capital and Working Capital, Project #135,711

(Added September 30, 2024)

V. Describe any challenges, problems, delays or unexpected events that arose during Project implementation and corrective measures being taken.

VI. We would appreciate feedback regarding this ESD program. Please comment on any interactions you had with ESD before applying for funds, on the application and project approval process, on the payment reimbursement process, or on any other interactions with ESD related to the project. You may submit the answer with your report or under separate cover to:

Sheryl McLeish
ESD
Loans & Grants Department Administrator
655 Third Avenue
New York, NY 10017

EXHIBIT E: DISBURSEMENT TERMS
(Revised as of September 30, 2024)

Disbursement

Upon compliance with the terms of this Agreement, and receipt of the fees as set forth below, ESD shall disburse the Grant to the Grantee as follows:

Fees due:

Commitment Fee:	$550,000.00 (One percent (1%) of grant amount)*
Reimbursement for out-of-pocket expenses	$ 1,023.51
TOTAL due:	$551,023.51

*The commitment fee shall be paid in five annual installments of $110,000; each installment payment shall be paid to ESD no later than October 1st of each year starting in 2023. **$111,023.51 was paid in 2023**, representing the first of five installment payments and reimbursement for out-of-pocket expenses.

Up to $55 million will be advanced periodically into an account (the "Imprest Account") at a bank mutually acceptable to ESD (as set forth in writing by ESD), assuming that all project approvals have been completed and funds are available. Funds from the Imprest Account, from the time of deposit and until disbursed from such account in accordance with terms approved by the ESD Directors, will be invested in accordance with Exhibit I-1: ESD Investment Regulations. Interest earned on the funds deposited in the Imprest Account must be returned to ESD quarterly along with copies of all Imprest Account bank statements, starting when funds are deposited and continuing until all funds have been disbursed.

The Grantee may request funds from the Imprest Account to pay for eligible Project expenses monthly, unless otherwise approved by ESD, in accordance with Design and Construction requirements and in proportion to ESD's funding share of each individual sub-project, if applicable. The subsequent month's request will include current invoices as well as proof of payment for the previous month.

An Initial Advance will be deposited into the Imprest Account upon execution of the Grant Disbursement Agreement. Subsequent Advances are expected to be deposited based on full documentation of eligible expenses of 75% of the preceding Advance and 100% of any previous Advance(s); presentation of ESD of an invoice; and any other such documentation as ESD may reasonably require. All Advances will be based on a 6-12 month cash flow need as mutually agreed upon by the Grantee and ESD.

Eligible expenditures paid by ESD's grant must be incurred on or after September 1, 2022 to be considered eligible Project costs. All requests for payments must be requested by April 1, 2028; any funds remaining in the Imprest Account as of December 31, 2028 shall be returned to ESD. The final 10% of the grant will be retained until documentation supporting project completion has been received by ESD.

Payment will be made upon presentation to ESD of an invoice and such other documentation as ESD may reasonably require, in the form attached to this Agreement as Exhibit F and its attachments.

EXHIBIT E: DISBURSEMENT TERMS, continued
(Revised as of September 30, 2024)

All disbursements are subject to recapture as set forth in Exhibit C.

Up to $6 million can be used for operational costs; the balance of the grant must be used for capital expenditures.

ESD reserves the right to require additional documentation to support draw down requests.

Wire Transfer Information:
If ESD assistance is $10,000 or greater, please provide a Letter from a financial officer of the Grantee certifying to the accuracy of the following information:

Bank Name: _____

ABA #: _____

Account Name: _____

Account #: _____

EXHIBIT F: CAPITAL GRANT PAYMENT REQUISITION FORM
(Revised as of September 30, 2024)

Northland Corridor Redevelopment Phase 3 Capital, Project #135,711 Disbursement Request Amount: $_____

ESD funds may be applied by Grantee in payment or reimbursement of the following costs:

Eligible Expenses	A: Actual Costs Incurred (this request)	B: ESD Share (this request)	C: Cumulative Amount Previously Received from ESD	D: Grant Amount (Cumulative if multi-year grant)	E: (D-C-B) Grant Balance Remaining
Planning, design, demolition, sitework, renovatons, construction, purchase & installation of equipment				$49,000,000	
Operational Costs				$6,000,000	
TOTAL				$55,000,000	

CERTIFICATION

I hereby warrant and represent to Empire State Development ("ESD") that:

1) To the best of my knowledge, information and belief, the expenditures for which the Buffalo Urban Development Corporation is seeking payment and/or reimbursement comply with the requirements of the Agreement between ESD and the Buffalo Urban Development Corporation, are eligible expenses, and that the payment and/or reimbursement of expenditures for which it is seeking payment and/or reimbursement from ESD does not duplicate reimbursement or disbursement of costs and/or expenses from any other source. These findings will be subject to audit by ESD's Internal Audit Department.

2) I have the authority to submit this invoice on behalf of the Buffalo Urban Development Corporation. The project, or portion thereof for which this invoice relates, has been completed in the manner outlined in the Agreement.

3) I hereby attach the following documents for ESD approval, in support of this requisition (note N/A if not applicable for this request):
   - ___ Exhibit B: Design & Construction Requirements
   - ___ Exhibit F-2: Financial Condition Documentation
   - ___ Exhibit F-3: Project Cost Documentation
   - ___ Exhibit F-4: Project Cost Affidavit
   - ___ Exhibit G-2: Staffing Plan
   - ___ Exhibit G-3: Workforce Employment Utilization Report
   - ___ Exhibit G-4: M/WBE Utilization Plan
   - ___ Exhibit G-5: Waiver Request Form
   - ___ Exhibit G-6: M/WBE Contractor Compliance and Payment Report
   - ___ A copy of most recent Commitment Fee payment (due annually).
   - ___ A copy of all current policies of insurance (or certificates thereof) in full compliance with the terms and conditions of Section 12 of the Agreement

4) There have been no materially adverse changes in the financial condition of the Grantee, except as disclosed in writing to ESD, from the date of submission of the Application to the date hereof.

5) The Grantee has acted responsibly from the date of submission of the Application to the date hereof in full compliance with the terms and conditions of Section 7 of the Agreement.

6) Representations, Warranties and Covenants made in Section 8 of the Agreement are still true, complete and accurate, unless waived in Exhibit I of the Agreement.

Signature: _____ Print Name: _____

Title: _____ Date: _____

At any point in the course of your project, ESD would appreciate feedback regarding this ESD program. Please comment on the application, project approval, and/or payment reimbursement process or any other interactions with ESD related to the project. You may submit your feedback under separate cover to Glendon McLeary, Vice President and Director of Loans and Grants, 633 Third Avenue, NY, NY 10017. Please include your Project Number and Project Name which are listed at the top of this exhibit on your submission. Thank you.

EXHIBIT F-1: Grant Utilization Request Form ("GURF")
Withdrawal of Funds from Imprest Account
(Revised as of September 30, 2024)

Northland Corridor Redevelopment Phase 3 Capital and Working Capital, 135,711 (attn: Jean Williams)

ESD funds may be applied by Grantee in payment or reimbursement of the following costs for the above-referenced project; **Submit a separate form for each withdrawal request and attach current invoices due and payable.**

GURF Request # 11 Vendor(s): Cannon Heyman & Weiss, LLP Nixon Peabody LLP, NTCIC HTC Community Fund II, LLC, IRS, and NYS Department of Taxation and Finance, Hurwitz & Fine Amount: $1,181,820.00

SUMMARY OF INVOICES DUE AND PAYABLE: [An Excel spreadsheet of Exhibit F-3, will be supplied by ESD and is required to be attached to this form with each submission]

GURF #	Item #	Invoice Date	Invoice #	Vendor Name	Description	Capital	Working Capital	Certification Date	Amount Requested
		[SEE ATTACHED SPREADSHEET PROVIDED BY GRANTEE]							
TOTAL									

PROGRAM FUNDING STATUS

1	Total Grant Amount	$55,000,000
2	Total Capital Grant Funds Utilized/Requested to Date (including this request)	$5,160,926.55
3	Total Working Capital Grant Funds Utilized/Requested to Date (including this request)	$4,257,183.82
4	Balance of Grant Funds to be Requested (Line 1 minus Line 2 minus Line3)	$45,581,889.63

CERTIFICATION

I hereby warrant and represent to Empire State Development ("ESD") that:

1) To the best of my knowledge, information and belief, the expenditures for which the Buffalo Urban Development Corporation is seeking authorization comply with the requirements of the Agreement between ESD and the Buffalo Urban Development Corporation, are Eligible Expenses, and that the payment, reimbursement, and/or approval of expenditures for which Grantee is seeking payment, reimbursement, or approval from ESD does not duplicate reimbursement or disbursement of costs and/or expenses from any other source.

2) I have the authority to submit this request on behalf of the Buffalo Urban Development Corporation. The required information has been submitted to ESD in the manner outlined in the Agreement.

3) Grantee is current on all reporting required by ESD, if applicable. If Grantee is not current on reporting, this request will not be considered.

4) There have been no materially adverse changes in the financial condition of the Grantee, except as disclosed in writing to ESD, from the date of submission of the Application to the date hereof.

5) The Grantee has acted responsibly from the date of submission of the Application to the date hereof in full compliance with the terms and conditions of Section 7 of the Agreement.

6) Representations, Warranties and Covenants made in Section 8 of the Agreement are still true, complete and accurate, unless waived in Exhibit I of the Agreement.

Signature:_____ Date:_____

Print Name: _____ Title: _____

EXHIBIT F-3: DOCUMENTATION OF PROJECT COSTS
Northland Corridor Redevelopment Phase 3 Capital and Working Capital, Project #135,711
[Electronic form will be supplied by ESD]
(Revised as of September 30, 2024)

GURF #	Item #	GURF Date	[Blank]	Invoice Date	Invoice #	Vendor Name	Description	Capital	Working Capital	Amount Requested	Vendor Contract Balance
TOTAL:											

PREPARED BY: _____ DATE: _____

* Items shall be numbered 1, 2, 3, etc. Also indicate the corresponding item number clearly on any supporting documentation such as cancelled checks, bank statements and invoices. If construction is being documented with AIA forms, please be sure that all applicable sections are completed, signed & notarized. **PLEASE EMAIL AN EXCEL OF THIS FORM TO JEAN.WILLIAMS@ESD.NY.GOV WITH EACH GURF SUBMISSION**

EXHIBIT F-4: PROJECT COST AFFIDAVIT

Northland Corridor Redevelopment Phase 3 Capital, and Working Capital, #135,711

(Revised as of September 30, 2024)

STATE OF NEW YORK)
) ss.:
COUNTY OF Erie)

The Undersigned, being duly sworn, deposes and says:

1. I,_____, am the_____ of _____ (the "Grantee"), a not-for-profit agency that is duly organized and validly existing under the laws of _____, and is authorized to do business and is in good standing in the State of New York.

2. I have read and know the contents of a certain Grant Disbursement Agreement (the "Agreement") executed by and between New York State Urban Development Corporation d/b/a Empire State Development ("ESD") and the Grantee dated the _____ day of _____, 20_____.

3. After having read and reviewed the Agreement, invoices and payments relating thereto, statements of cost and equity, and such other documents as I consider necessary to render the certifications contained herein, I do certify, on the Organization's behalf, that the costs for the project were incurred in the manner set forth in the Agreement, that Five million, one hundred sixty thousand, nine hundred-twenty six Dollars and fifty-five cents. ($ 5,160,926.55) incurred to date are capital expenses in accordance with applicable state and federal law, and the **total cost of the project** to date was equal to or greater than Nine million, four hundred eighteen thousand, one hundred ten dollars and thirty-seven cents Dollars ($ 9,418,110.37). I further certify that Four million two hundred fifty-seven thousdand, one hundred eighty Dollars ($ 4,257,183.82) incurred to date are working capital costs. -three and eighty-two cents.

4. I make this affidavit and the certifications contained herein to induce ESD to disburse the grant under the terms of the Agreement, knowing that ESD will rely on the statements contained herein. I am aware that the swearing of a false oath is a Class A misdemeanor and may be a Class E felony.

_____

By:
Name:
Title:

Subscribed and sworn to before me
this ____ day of _____, 20

Notary Public

EXHIBIT I: SPECIAL PROVISIONS
(Revised as of September 30, 2024)

In the event of any conflict between Exhibit A of this Agreement and any other provisions of this Agreement, the terms of such other provisions shall govern.

The following sections of the Terms and Conditions of this Agreement are waived: Section 2; Section 3(e); the reference to "Exhibit H" in Section 4(a); Section 8(i); Section 9(a)(iv) and Section 9(a)(vii).

Neither the Grant, nor any equipment or facility funded in part or whole by the Grant, shall be used at any time or in any manner for religious worship, instruction or proselytizing.

ESD assistance for the Solar Microgrid Capital grant (#133,857) and Buffalo-RESTORE V grant (AD009) shall be governed by separate agreements.

All references to "Project Location" shall mean "Project Locations."

Grantee shall demonstrate compliance with protocols recommended by Guidepost Solutions with each disbursement request, which include the following:

- Grantee shall be required to demonstrate to ESD's satisfaction, that project costs to be paid for by ESD funds are incurred in arms-length transactions;
- Grantee shall be required to procure materials, contractors and services to be paid for with ESD grant funds in accordance with a competitive procurement process approved by ESD;
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EXHIBIT I: SPECIAL PROVISIONS, continued
(Revised as of September 30, 2024)

Under the terms of ESD Grant No. Z415 approved by the ESD Board of Directors on April 21, 2016 for Phase 1 of the Northland Corridor Redevelopment—which involved rehabilitation of 683 Northland Avenue to house the Western New York (now "Northland") Workforce Training Center—BUDC agreed to make available space at 683 Northland Avenue available for ESD (or any other designated entity by ESD) for the Northland Workforce Training Center and/or other economic development uses at ESD's discretion at a rental cost of $1/year (plus utilities, taxes, and common area maintenance [CAM] charges) unless otherwise agreed by ESD.

Section 8(l) of Terms and Conditions of this Agreement are waived for the $6,000,000 in operational costs.

Section II. Project Cost and Financing Sources of Exhibit A are amended as follows:

Revised Financing Uses	Amount
EDA Build Back Better Regional Challenge Subproject:	
Design & Soft Costs	$7,116,181
541 E. Delevan Ave. Construction	$15,029,936
612 Northland Ave. Construction	$1,725,447
Campus Parking & Infrastructure Construction	$379,136
Community Solar/Energy Construction	$13,044,815
Sub-Total Project Costs	$37,295,515
683/631 Northland Ave Subproject:	
683 Northland Ave. Cost Recovery	$30,000
631 Northland Ave. Design & Soft Costs	$1,500,000
631 Northland Ave. Sitework/Environmental Clean-Up	$1,225,000
631 Northland Ave. Construction	$9,290,000
Sub-Total Project Costs	$12,045,000
777 Northland Ave Subproject*:	
Design & Soft Costs	$407,500
777 Northland Ave. Sitework/Environmental Clean-Up	$575,000
777 Northland Ave. Select Demolition	$2,100,000
Sub-Total Project Costs	$3,082,500

*777 Northland Ave. Construction has been delayed and therefore removed from this revised budget.

EXHIBIT I: SPECIAL PROVISIONS, continued
(Revised as of September 30, 2024)

537 E. Delavan Subproject - Houdaille Admin. Building:	
Design & Soft Costs	$345,000
537 E. Delevan Construction	$4,610,000
Sub-Total Project Costs	$4,955,000
741 Northland Ave Subproject:**	
Design & Soft Costs	$756,985
741 Northland Ave. Sitework/Environmental Clean-Up	$700,000
741 Northland Ave. Select Demolition	$2,800,000
741 Northland Ave. Contingency & Escalation	$2,719,000
Water Tower Rehab	$150,000
Sub-Total Project Costs	$7,125,985

**741 Northland Ave. New Construction has been delayed and therefore removed from this revised budget.

Houdaille Chimney & Boiler House Subproject:	
Design & Soft Costs	$79,000
Houdaille Chimney & Boiler House Construction	$1,292,000
Sub-Total Project Costs	$1,371,000
Campuswide Tenant Improvements:	
Design & Soft Costs	$75,000
Select Tenant Fit Out Construction	$1,025,000
Sub-Total Project Costs	$1,100,000
Total Capital Project Costs:	**$66,975,000**
Working Capital / Operational Costs:	**$6,000,000**
Grand-Total Capital and Working Capital Costs:	**$72,975,000**

EXHIBIT I: SPECIAL PROVISIONS, continued
(Revised as of September 30, 2024)

Revised Financing Sources	Amount	Percent
EDA Build Back Better Regional Challenge Subproject:		
ESD-BUDC Solar Microgrid Capital Grant	$1,800,000	4.83%
ESD-RECAP Grant	$21,095,515	56.56%
US EDA BBBRC-Grant	$14,400,000	38.61%
Sub-Total Project Financing	$37,295,515	100.00%
683/631 Northland Ave Subproject:		
ESD- RECAP Grant	$11,745,000	97.51%
National Grid Economic Development Grant	$300,000	2.49%
Sub-Total Project Financing	$12,045,000	100.00%
777 Northland Ave Subproject:		
ESD-RECAP Grant	$1,607,500	52.15%
ESD-BUDC Restore NY Grant	$1,475,000	47.85%
Sub-Total Project Financing	$3,082,500	100.00%
537 E. Delavan Subproject – Houdaille Admin. Building:		
ESD-RECAP Grant	$4,955,000	100.00%
Sub-Total Project Financing	$4,955,000	100.00%
741 Northland Ave Subproject:		
ESD-RECAP Grant	$7,125,985	100.00%
Sub-Total Project Financing	$7,125,985	100.00%
Houdaille Chimney & Boiler House Subproject:		
ESD-RECAP Grant	$1,371,000	100.00%
Sub-Total Project Financing	$1,371,000	100.00%
Campuswide Tenant Improvements:		
ESD-RECAP Grant	$1,100,000	100.00%
Sub-Total Project Financing	$1,100,000	100.00%
Total Capital Project Financing:	**$66,975,000**	
Working Capital / Operational Costs:		
ESD-RECAP Grant	$6,000,000	100.00%
Grand-Total Capital and Working Capital Costs:	**$72,975,000**	

PROJECT MANUAL

FOR

NORTHLAND CORRIDOR REDEVELOPMENT PROJECT PHASE 4 AT 631 NORTHLAND AVENUE

ARCHITECT'S PROJECT NUMBER: 4326-07

ESD Regional Economic & Community Assistance Program #135,711

BUFFALO URBAN DEVELOPMENT CORPORATION

95 PERRY STREET, SUITE 404

BUFFALO, NEW YORK 14203

DATE: October 1, 2025

PREPARED BY:

WENDEL WD ARCHITECTURE, ENGINEERING, SURVEYING AND LANDSCAPE ARCHITECTURE, P.C.

PART 1 GENERAL

1.1 PROJECT IDENTIFICATION

A. Project Name: Northland Corridor Redevelopment Project Phase 4, located at 631 Northland Avenue, Buffalo, NY 14211.

B. Architect's Project Number: 4326-07

C. The Owner, hereinafter referred to as Owner: 631 Northland, LLC c/o Buffalo Urban Development Corporation (BUDC)

D. Owner's Project Manager: Angelo Rhodes II
1. Address: 95 Perry Street, Suite 404
2. City, State, Zip: Buffalo, NY 14203
3. Phone/Fax: 716-901-5386
4. E-mail: arhodes@buffalourbandevelopment.com.

E. Owner's Property Manager: Dennis Cannon
1. Address: 683 Northland Ave.
2. City, State, Zip: Buffalo, NY 14211
3. E-mail: dennis.cannon@comvestinc.com

1.2 NOTICE TO PROSPECTIVE BIDDERS

A. These documents constitute an Invitation to Bid to and request for qualifications from General Contractors for the construction of the project described below.

1.3 PROJECT DESCRIPTION

A. Summary Project Description: Restoration of the 631 Northland Avenue historic building, an approximate 40,000SF high bay industrial building listed on the National Register and accepted into the Brownfield Cleanup Program.

B. Contract Scope: Construction, selective demolition, renovation, site and infrastructure improvements, and hazardous material removal, and coordination with appropriate agencies supporting the historic nature of the building and required Brownfield cleanup and testing.

C. Contract Terms: Lump sum (fixed price, stipulated sum).

D. The premises are not presently occupied yet do share a shared driveway and surface lot.

1. Coordination with the Owner's Property Manager during bid and construction is required for access/use of shared drive access, other.

2. Comvest Inc. business hours are Monday through Friday: 7AM to 3PM.
All prospective bidders must notify the Owner's Property Manager in advance of project site examinations.

1.3 PROJECT CONSULTANTS

A. The Architect, hereinafter referred to as Architect: Wendel WD Architecture, Engineering, Surveying and Landscape Architecture, P.C.
   1. Address: 375 Essjay Road, Suite 200
   2. City, State, Zip: Williamsville NY 14221
   3. Phone/Fax: 716-688-0766

1.4 PROCUREMENT TIMETABLE

A. Bid Documents Available: October 1, 2025

B. Pre-Bid Site Tour: 9:00 AM (EST), October 14, 2025 at 631 Northland Avenue, Buffalo, NY 14211

C. Last Request for Substitution Due: 7 days prior to due date of bids.

D. Last Request for Information Due: 7 days prior to due date of bids.

E. Bid Due Date: Thursday, November 6, 2025 before 1:00 PM local time. Bids shall be emailed and printed, as outlined in the Instructions to Bidders, to the attention of

   Angelo Rhodes, II, Senior Project Manager, Northland Corridor
   Buffalo Urban Development Corporation
   95 Perry Street, Suite 404
   Buffalo, New York, 14203
   E-mail: arhodes@buffalourbandevelopment.com

F. Notice to Proceed: To be determined by Owner, but anticipated to be no later than one hundred and twenty (120) days after the due date and subject to the full execution of the contract documents specified in 1.7(D) below.

G. Bids May Not Be Withdrawn Until: 120 days after due date.

H. Contract Time: 20 months

I. Desired Final Completion Date: Twenty (20) months from the issuance of the Notice to Proceed but in no event later than December 31, 2027. Work is subject to liquidated damages.

J. The Owner reserves the right to change the schedule or terminate the entire procurement process at any time.

1.5 PROCUREMENT DOCUMENTS

A. Availability of Documents: Complete sets of procurement documents may be obtained at the Contractor's cost as follows:
   1. Contractor Reporter
   2. Avalon – Buffalo. https://www.avalonbuff-planroom.com/projects/public
      40 La Riviere Dr., Buffalo, NY
      (716) 995-7777
   3. The Construction Exchange Online Plan Room
      https://conexbuff.com/online-plan-room/

1.6 BID SECURITY

A. Bids shall be accompanied by a security deposit as follows:
   1. Bid Bond of a sum no less than 5 percent of the Bid Amount on AIA A310 Bid Bond Form.

1.7 FUNDING INFORMATION

A. The Project is a funding recipient of RECAP – Regional Economic & Community Assistance Program, grant funding through Empire State Development (Project No. #135,711). Contractor will be required to comply with requirements set forth in the RECAP Grant Agreement. Copies of Owner's grant documents are available from Owner upon Contractor's request.
B. This project is a capital improvement project.
   1. Materials purchased as part of the project by the Contractor are subject to sales tax which are passed along to the Owner.
   2. Labor charged by the Contractor is exempt from sales tax. Required forms to be completed and submitted.
C. M/WBE Participation is required with an overall goal of thirty percent (30%). Contractor compliance and utilization reporting is required on a monthly basis.
D. Copies of the A101-2017 *Standard Form of Agreement Between Owner and Contractor (where the basis of payment is a Stipulated Sum),* Exhibit A to the A101 *Insurance and Bonds* and A201 *General Terms and Conditions* are included in Parts 005000 and 006001 of the Project Manual. The A101, Exhibit A to the A101 and A201 contain modifications as required by the Owner. If selected as the General Contractor for the redevelopment of 631 Northland Avenue, Contractor is expected to enter into the A101, Exhibit A to the A101 and A201 documents with Owner in the forms attached.

1.8 MINORITY AND WOMEN BUSINESS ENTERPRISE BUSINESS INTEREST

In accordance with Governor Hochul's Executive Order No. 8 establishing a policy to promote equal opportunity in contracting for all persons, without discrimination for minority group members and women and business enterprises owned by them, and to eradicate the barriers that have impaired access by minority and women-owned business enterprise to State contracting opportunities, BUDC and ESD seek to encourage meaningful partnerships with and participation from NYS-certified Minority and Women-Owned Business Enterprise (M/WBE) at all project levels. For purposes of this solicitation, ESD hereby establishes an overall goal of 30% for Minority and Women-Owned Business Enterprises ("MWBE") participation for third-party vendors and services utilized for this contract. The vendor must document good faith efforts to provide meaningful participation by M/WBE's subcontractors or suppliers in the performance of the contract and agrees that BUDC may withhold payment pending receipt of the required M/WBE documentation. M/WBEs companies are encouraged to respond.

1.9 SELECTION PROCESS

Details with respect to Owner's selection process are detailed in AIA701 *Instructions to Bidders*.

1.10 GENERAL REQUIREMENTS

According to State Finance Law §§139-j and 139-k, this invitation to bid imposes certain restrictions on communications between respondents and BUDC during the procurement process. Respondents are prohibited from making contacts (whether oral, written, or electronic) with any BUDC personnel or BUDC Board member other than the designated BUDC staff member (unless the contact is otherwise permitted under State Finance Law §139-j(3)(a)). In addition, respondents are hereby notified that any contact with any BUDC personnel, BUDC Board member, or the designated BUDC staff member which a reasonable person would infer is intended to influence the award of the contract under this invitation to bid is prohibited.

These prohibitions apply from the respondent's earliest notice of BUDC's intent to solicit proposals through the final award and approval of the procurement contract ("Restricted Period"). For this invitation to bid, the designated BUDC staff member is Angelo Rhodes II arhodes@buffalourbandevelopment.com.

A. **Respondent's Affirmation of Understanding of and Agreement Pursuant to State Finance Law §139-j(3) and §139-j(6)(b)**
BUDC is required to obtain written affirmations from all respondents as to the respondent's understanding of, and agreement to comply with BUDC's procedures relating to permissible contacts (described in paragraph 1 above). The affirmation must be provided to BUDC when the respondent submits its qualification statement. The form of affirmation to be completed and submitted by the respondent is included within Part 004113 as Exhibit A - Attachment 1 – Affirmation of Understanding Agreement.

B. **Respondent's Certification of Compliance with State Finance Law §139-k(5)**

State Finance Law §139-k(5) requires respondents to provide written certification that all information provided to BUDC with respect to State Finance Law §139-k is complete, true and accurate. The certification must be provided to BUDC when the respondent submits its qualification statement. The form of certification to be completed and submitted by the respondent is included within Part 004113 as Exhibit A – Attachment 2 – Offeror/Bidder Certification.

C. **Respondent Disclosure of Prior Non-Responsibility Determinations**

State Finance Law §139-k(2) obligates BUDC to obtain specific information regarding prior non-responsibility determinations with respect to State Finance Law §139-j. In accordance with State Finance Law §139-k, each respondent must disclose whether there has been a finding of non-responsibility made within the previous four (4) years by any Governmental Entity due to: (a) a violation of State Finance Law §139-j or (b) the intentional provision of false or incomplete information to a Governmental Entity. State Finance Law §139-j sets forth detailed requirements about the restrictions on contacts during the procurement process. A violation of State Finance Law §139-j includes, but is not limited to, an impermissible contact during the Restricted Period (for example, contacting a person or entity other than the designated contact person, when such contact does not fall within one of the exemptions).

As part of its responsibility determination, State Finance Law §139-k(3) mandates consideration of whether a respondent fails to timely disclose accurate or complete information regarding the above non- responsibility determination. In accordance with the law, no procurement contract shall be awarded to any respondent that fails to timely disclose accurate or complete information under this section, unless a finding is made that the award of the procurement contract to the respondent is

necessary to protect public property or public health and safety, and that the respondent is the only source capable of supplying the required article of procurement within the necessary timeframe. Exhibit A – Attachment 3 – Offeror Disclosure of Prior Non-Responsibility within Part 004113 must be completed by the respondent and submitted to BUDC at the time of respondent's submission of its qualification statement.

New York State Finance Law §139-k (5) provides that every procurement contract award subject to the provisions of State Finance Law §§139-k and 139-j shall contain a provision authorizing termination of the contract in the event that the certification provided by the respondent that is awarded the contract is found to be intentionally false or intentionally incomplete. Such provision shall be included in the contract that is awarded (if one is awarded) pursuant to this invitation to bid.

1.11 PUBLIC DOMAIN

Respondents are advised that New York law provides that, upon the award of a contract subsequent to an invitation to bid, the contents of all proposals received pursuant to said request may be placed in the public domain and become public records subject to examination by any interested parties pursuant to the New York State Freedom of Information Law (FOIL). All trade secrets and proprietary information, recognized by BUDC as such, may be protected from public disclosure if respondents clearly identify, in writing, those part or parts of their proposals, which they claim to be proprietary information, trade secrets or other commercial information, or non-individual financial information that may be protected under FOIL. Proposals in total will not be considered proprietary. After the recommendation of the Selection Committee to the BUDC Board and a contract is awarded, all proposals are considered public documents, except those items specifically identified as proprietary. All materials submitted by a respondent in response to this invitation to bid will become the property of BUDC.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

Phase II Environmental Site Assessment

631, 683, 741 and 777 Northland Avenue

City of Buffalo, Erie County, New York

Prepared For:
Empire State Development Corporation & Nordell II, LLC
95 Perry Street, Suite 404
Buffalo, NY 14203

September 2015

Prepared By:

FISHERASSOCIATES
135 Calkins Road, Rochester, NY 14623
Phone: 585-334-1310
www.fisherassoc.com

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EXECUTIVE SUMMARY

This report has been prepared to summarize field activities at the properties located at 631,683, 741 and 777 Northland Avenue, City of Buffalo, Erie County, New York (subject properties). The work was completed on behalf of the Empire State Development Corporation (ESDC) and NorDell II, LLC (NorDell II).

The subject properties are currently being considered by NorDell II for new uses. Fisher Associates recommended a Phase II Environmental Site Assessment (ESA) after it completed a Phase I ESA in June 2015 The Phase I ESA identified recognized environmental conditions (RECs) based on a number of observations including, but not limited to, on-site storage tanks and containers, waste storage, and the historic use of the subject properties and adjacent properties.

Limited site investigations were previously conducted at two of the subject properties. A limited Phase II ESA was conducted at 644 and 683 Northland Avenue in June 2005 by Leader Professional Services, Inc. which identified residual contamination in subsurface soils and groundwater.

Due to the RECs identified in the Phase I ESA, historic use of the subject properties, and the results of the Phase II ESA conducted in 2005, it was determined that a limited Phase II Environmental Site Assessment would be conducted to determine the potential for encountering contaminated materials from on-site sources.

Between May and June 2015, a total of nineteen (19) external soil borings were advanced to acquire environmental data from the subject properties. Sixteen (16) additional soil borings were advanced internally within the existing subject property structures (Buildings A and B at 631 Northland, Building C at 683 Northland, and Building D at 741 Northland). Due to potential hazardous safety conditions at 777 Northland, no internal borings were conducted at this location. Three (3) groundwater monitoring wells were also installed into the shallow bedrock formation. Within the on-site buildings, samples from underground storage tanks (USTs), pits, sumps, and solids were collected to evaluate any potential environmental impact and for disposal considerations.

The soils recovered were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), Resource Conservation and Recovery Act (RCRA) metals, and polychlorinated biphenyls (PCBs). Similarly, low-flow groundwater sampling was conducted and analyzed for the same parameters. Samples from the existing USTs, pits, sumps and solids were collected to identify the type and quantity of material still present.

The soil boring locations had concentrations of SVOCs, specifically, Benzo (a) pyrene, Benzo (b) fluoranthene, Dibenz (a,h) anthracene, and Indeno (1,2,3-cd) pyrene at concentrations above the NYSDEC's Part 375-6.4 Restricted Commercial Use Soil Cleanup Objectives (SCOs). RCRA metals were detected within the soil borings for Arsenic, Barium, Cadmium, Lead, and Mercury. PCB (specifically Aroclor 1254) was also detected. Trichloroethylene (TCE) and cis-1,2-Dichloroethene (1,2 DCE) was detected at levels above Table 3 cf. in 6 NYCRR §703.6) for discharges to Class GA waters effluent limitations in the sample taken from Monitoring Well

(MW-3). Due to the elevated Trichloroethylene (TCE) and cis-1,2-Dichloroethene (1,2 DCE) in MW-3, NorDell II, LLC requested that Fisher Associates report the spill to the NYSDEC Region 9 office. In turn, the NYSDEC opened a spill file number (1503832) for the 777 Northland Avenue property. It was presumed that the TCE and 1,2 DCE contamination at MW-3 was the result of potential usage from past industrial activity. No PCBs were identified in groundwater samples taken at any of the three (3) monitoring well locations.

Finally, a limited regulated building material evaluation was also conducted by a NYSDOL-certified asbestos inspector within the on-site buildings to locate, identify and quantify potential concerns associated with asbestos-containing materials (ACM), lead-based paint, and polychlorinated biphenyls (PCBs). This included collection and analysis of various building materials including paint samples and caulking/glazing materials.

Based on the laboratory and PID data collected and field observations, it is recommended that a soil management plan (SMP) be prepared and implemented for any on-site excavations or other intrusive work. In addition, soil sampling to determine the localized horizontal and vertical extent of contamination surrounding SB009, SB010, and SB019 should also be performed to identify the area to remediate. This area has exceeded levels of RCRA Metals, and PCBs, with noticeable petroleum staining and product. Any soils to be left in place on site should be evaluated to determine the depth to contamination encountered and the need for a sub-slab vapor extraction system or similar engineering controls.

Based on the groundwater analytical results, MW-3 identified concentrations of TCE and cis-1,2 DCE to be above the Groundwater Effluent Limitations. Therefore, it is recommended that MW-1, MW-2 and MW-3 be resampled within three (3) months to compare the initial findings.

Cleaning and removal of existing waste in pits and on pit walls, sumps, secondary containment areas (waste oil AST) , wood flooring, and the five (5) USTs, will need to be conducted and associated waste handled properly for disposal. Samples for Toxicity Characterization Leachate Procedure (TCLP) will most likely be required for landfill characterization before disposal of any materials contained in these waste containers or solids.

Finally, ACM and lead-based paint were identified at several locations in on-site buildings on the subject properties. In accordance with Industrial Code Rule 56 (12 NYCRR Part 56), no demolition or renovation work shall commence by any owner or agent prior to completion of asbestos abatement performed by a licensed asbestos abatement contractor. If suspect ACM not identified in this report are discovered during the renovation/demolition process, the presence, location and quantity of newly discovered material, must be conveyed within 24 hours of discovery to the building owner or their representative. All activities must cease in the area where the presumed ACM or suspect miscellaneous ACM is found, until a licensed asbestos contractor appropriately assesses and manages the discovered materials. The following is also noted:

- Incidental Disturbances at Building D at 741 Northland Avenue. Areas where the entire structure has collapsed on the west side of the building, along areas of roof collapse throughout the building, and areas where pipe insulation has dropped to the ground

should all be considered incidental disturbances. These areas are in need of proper clean up prior to demolition and/or occupancy of the buildings.

- Incidental Disturbances at Building D at 777 Northland Avenue. Areas of roof collapse throughout the building, and areas around the exterior where roofing is on the ground should all be considered incidental disturbances. These areas are in need of proper clean up prior to demolition and/or occupancy of the buildings.

It is also recommended that a Handling of Lead-Containing Materials specification section be developed to be used during cleanup activities. This specification should specify the requirements for the detection and prevention of lead dust contamination in any lead dust control work areas and areas adjacent to them, protection of workers, post-work cleaning, pre-disposal testing and appropriate disposal of removed material. In addition, all employees involved in construction work on the site must follow the Occupational Safety & Health Administration (OSHA) (29 CFR §1926.62) lead exposure regulation, which considers any amount of lead to be of concern. The regulation states that the employer shall assure that no employee is exposed to lead at concentrations greater than fifty micrograms per cubic meter of air (50 $\mu g/m^3$) averaged over an 8-hour period.

Based on analytical PCB sampling results, no PCBs were detected in on-site building materials. However, if suspect materials not identified in this report are discovered during the demolition/renovation process, the presence, location and quantity of newly discovered material, must be conveyed within 24 hours of discovery to the building owner or their representative.

1.0 INTRODUCTION

This report presents the results of a Limited Phase II Environmental Site Assessment (ESA) conducted by Fisher Associates for the Empire State Development Corporation (ESDC) and NorDell II, LLC (NorDell II) for properties located at 631, 683, 741, and 777 Northland Avenue in the City of Buffalo (subject properties). The subject properties are shown on Figure 1 – Base Map.

1.1 Site Background

The subject properties are located along the south side of Northland Avenue, in the City of Buffalo, New York. The properties are former industrial facilities that utilized cutting oils, lube oils, grease, other petroleum products, and degreasing agents.

Review of historic Sanborn Maps provided by Fisher Associates in the Phase I ESA dated June 2015, indicates that the subject properties included industrial operations beginning in the early 1900s. Niagara Machine & Tool Works operated on the subject properties as early as 1917 and Otis Elevator (later called Buffalo Stainless Casting Corporation) operated in the mid 1950s. In 1986, Niagara Machine & Tool Works still existed with Curtiss Wright Corporation Metal Processing Division located east of the subject properties.

1.2 Purpose and Scope

The purpose of the Limited Phase II ESA was to determine the potential for encountering contaminated soils and groundwater and to characterize surface and subsurface facility environmental conditions. The Limited Phase II ESA included a total of thirty-five (35) soil borings and three (3) monitoring well installations, and analytical laboratory testing on soils, groundwater, liquids/solids contained in underground storage tanks (USTs), pits, sumps, and other containment areas, floor sand and wood floors, and asbestos-containing materials (ACM), lead-based paint, and polychlorinated biphenyls (PCBs).

2.0 FIELD INVESTIGATIONS

2.1 Soil Borings

During May and June 2015, representatives from Fisher Associates and Nature's Way Environmental Consultants & Contractors, Inc. (Nature's Way), advanced a total of thirty-five (35) soil borings, using truck-mounted direct push soil sampling technology at locations within the subject properties as shown on Figures 2, 4, and 6 - (see Appendix A).

Thirty-five (35) of the soil test borings were pneumatically driven to refusal conditions (i.e. bedrock), which was assumed to be 10 to 18 feet below ground surface (bgs). Nineteen (19) soil borings were installed outside around the subject properties and 16 soil borings were installed inside the subject properties' on-site buildings (Buildings A, B, C and D). During drilling, the soil recovered from the borings were monitored at 4.0 foot (ft.) intervals using a RAE Systems MiniRAE 3000 photoionization detector (PID) equipped with a 10.7 eV lamp. The soil samples were scanned for the presence of organic compounds and the subsurface conditions were

documented during the investigation. Copies of the soil boring logs prepared by Fisher Associates are contained in Appendix B.

Representative soil samples were taken from the borings which had the highest PID reading above background (at a depth where the highest PID reading was obtained during monitoring). Samples were collected from soil borings at the following outside locations: SB-006 (0 - 4 ft.), SB-009 (0 - 4 ft.), SB-010 (4 - 8 ft.), SB-015 (4 - 9 ft.), SB-016 (4 - 8 ft.), and SB-018 (4 - 8 ft.), SB-019 (0 – 4 ft.). Additional soil borings were installed inside within the on-site buildings' footprint to investigate subsurface soil conditions beneath the existing flooring. Samples were collected from soil borings in Buildings A, C, and D at the following locations: ASB-5 (4 - 8 ft.), ASB-5 (8 – 10.2 ft.), ASB-8 (0 – 4 ft.), CSB-3 (0 – 4 ft.), and DSB-2 (0 – 4 ft.). No sample was collected or submitted for analysis from Building B based on the PID readings and visual soil review that were obtained during the boring installation. See Figures 2, 3, 4, 5, and 6 - in Appendix A for soil sampling locations. The results of the sample headspace scanning are shown on the soil boring logs contained in Appendix B.

Once collected, the soil samples were placed in laboratory grade glass jars and submitted under standard chain-of-custody protocol to Paradigm Environmental Services (Paradigm), a New York State Department of Health (NYSDOH)-approved laboratory for analysis. The samples were analyzed for VOCs via United States Environmental Protection Agency (USEPA) Method 8260B Target Compound List (TCL), SVOCs via USEPA Method 8270C, PCBs via USEPA Method 8082A, pesticides via USEPA Method 8081B, and RCRA Metals via USEPA Methods 7471B, 6010C, and 3050. The analytical laboratory- summarized tables are provided in Appendix C and the analytical laboratory report and chain-of-custody forms are contained in Appendix E.

2.2 Monitoring Well Installation

Three locations (MW-1, MW-2 and MW-3) were identified for installation on the subject properties to provide groundwater analytical data and determine the shallow bedrock groundwater flow direction (see Figures 2, 6 and 8 in Appendix A for monitoring well locations). Representatives from Fisher Associates and Nature's Way advanced the three (3) monitoring well boreholes, using hollow-stemmed augers driven by a truck-mounted rotary drill rig at locations within the subject properties as shown on Figures 2, 6 and 8 contained in Appendix A. The monitoring wells have permanent four (4) inch PVC riser pipe down to competent open bedrock formation, and are covered by a large monitoring well manhole cover. The monitoring well logs are contained in Appendix D.

MW-1 was installed on the southern subject property line between tax parcels associated with 631 and 683 Northland Avenue. This monitoring well was advanced to 9.6 feet bgs by auguring into competent bedrock. The well was created by installing 4-inch PVC riser pipe and grouted in place. Coring was completed into competent bedrock which was advanced to a total depth of 16.0 feet bgs. At ground surface, the monitoring well was protected with the installation of a large monitoring well manhole cover. Static groundwater was determined to be approximately 8.1 feet below the rim of the PVC riser pipe.

MW-2 was installed on the western portion of 741 Northland Avenue. This monitoring well was

advanced by auguring into competent bedrock. The well was created by installing 4- inch PVC riser pipe to 6 feet bgs and grouted in place. Coring was completed into competent bedrock which was advanced to a total depth of 17.5 feet bgs. At ground surface, the monitoring well was protected with the installation of a large monitoring well manhole cover. Static groundwater was determined to be approximately 6 feet below the rim of the PVC riser pipe.

MW-3 was installed on the south property line of 777 Northland Avenue. This monitoring well was advanced by auguring into competent bedrock. The well was created by installing 4-inch PVC riser pipe to 9.1 feet bgs and grouted in place. Coring was completed into competent bedrock which was advanced to a total depth of 24.0 feet bgs. At ground surface, the monitoring well was protected with the installation of a large monitoring well manhole cover. Static groundwater was determined to be approximately 7.7 feet below the rim of the PVC riser pipe.

The wells were developed prior to initiating sampling which allowed for groundwater parameter stabilization and verification of connectivity within the groundwater formation. The groundwater monitoring wells were sampled utilizing low-flow techniques using a peristaltic pump, and flow through cell to obtain field parameters along with dedicated tubing to determine stability at the determined fracture zone of groundwater testing.

Upon completion of groundwater monitoring well installation and after sufficient time had passed for stabilization, groundwater sampling from each newly installed well commenced. Once the groundwater parameters stabilized or after two hours, the samples were collected and placed in laboratory grade glass jars, then submitted under standard chain-of-custody protocol to Paradigm for analysis. The samples were analyzed for volatile organic compounds (VOCs) via United States Environmental Protection Agency (USEPA) Method 8260B Target Compound List (TCL) including MTBE, semi-volatile organic compounds (SVOCs) via USEPA Method 8270C, polychlorinated biphenyls (PCBs) via USEPA Method 8082A, and Resource Conservation Recovery Act (RCRA) Metals via USEPA Methods 7471B, 6010C, and 3050. The analytical laboratory summarized tables are provided in Appendix C and the analytical laboratory report and chain-of-custody forms are contained in Appendix E.

2.3 Facility Environmental Waste Identification

Within the existing on-site buildings, several sampling points were identified to properly characterize potential hazardous materials stored or contained on the subject properties and for removal and off-site disposal. Several industrial pits associated with machinery previously housed within on-site buildings were identified, and samples of liquid and solid materials contained in those pits were sampled. Additional existing sumps, secondary containments, storm drains, floor sand, wood block floors, and USTs were sampled to characterize the compounds present. A total of twenty-three (23) pit locations, four (4) sumps, one (1) secondary containment, two (2) composite storm drains, one (1) composite floor sand, two (2) composite wood block floor, and five (5) USTs samples were collected within the on-site buildings (Buildings A, C and D). No pits, sumps, USTs or wood floors were identified in Building B.

The pits sampled in Building A were former locations of industrial machinery that had residual petroleum-like liquid and surface water contained in them. In addition to the liquids, leftover

solid waste materials were placed within some of the pits. The following representative liquid and solid samples were collected from the identified pit locations inside Building A: AP1-L, AP2-L, AP3-L, AP3-S, AP4-L, AP5-L, AP6-L, AP7-L, AP8-L, AP9-L, AP10-L, AP11-L, AP12-L, AP13-L, AP14-L, AP15-L, AP16-S, AP17-L, AP18-L, AP19-L and AWLTF. Within Buildings C and D, samples were collected from the following pit locations: CP1, CP2, DP1, and DP2. These sample locations are depicted in Figures 3, 5 and 7 - see Appendix A.

The liquid and solid samples collected from the pit locations were placed in laboratory grade glass jars and then submitted under standard chain-of-custody protocol to Paradigm for analysis. The samples were analyzed for VOCs via USEPA Method 8260B TCL, SVOCs via USEPA Method 8270C, PCBs via USEPA Method 8082A, and RCRA Metals via USEPA Methods 7471B, 6010C, and 3050. The analytical laboratory summarized tables are provided in Appendix C and the analytical laboratory report and chain-of-custody forms are provided in Appendix E.

Existing sumps, a storm drain location, and floor sand were also sampled within Buildings A, C and D labeled: ASB-L, ASB-Z8L, AS2-Z8L, CS1, CFS1, and DSD1. The sumps, storm drain, and sand were sampled and analyzed for VOCs via USEPA Method 8260B TCL, SVOCs via USEPA Method 8270C, PCBs via USEPA Method 8082A, and RCRA Metals via USEPA Methods 7471B, 6010C, and 3050. The analytical laboratory-summarized tables are provided in Appendix C and the analytical laboratory report and chain-of-custody forms are contained in Appendix E.

In addition to the pits, sumps, storm drain and floor sand, wood block floors were sampled within Buildings A and C labeled: AWFloor and CWFloor. The solid samples were composited within each individual building and placed in laboratory grade glass jars and submitted under standard chain-of-custody protocol to Paradigm for analysis. The samples were analyzed for SVOCs via USEPA Method 8270C, PCBs via USEPA Method 8082A, pesticides via USEPA Method 8081B, and RCRA Metals via USEPA Methods 7471B, 6010C, and 3050. The analytical laboratory- summarized tables are provided in Appendix C and the analytical laboratory report and chain-of-custody forms are contained in Appendix E.

The existing electrical transformers present in Building A included certifications indicating that they are "PCB free." A representative photo of a transformer and associated certification is depicted in Appendix G – Photo Logs.

Five (5) USTs connected to Building A, were also identified and samples of their liquid contents were collected. The location of the 5 USTs are depicted in Appendix A, Figure 3 and labeled: Tank DTE25, Tank 630, NorthUST, MiddleUST, and SouthUST. The liquid samples collected from each individual UST were placed in laboratory grade glass jars and submitted under standard chain-of-custody protocol to Paradigm for analysis. The samples were analyzed for PCBs via USEPA Method 8082A, pesticides via USEPA Method 8081B, and the RCRA metals including barium, cadmium, chromium, and lead via USEPA Methods 6010C, and 3050. The analytical laboratory- summarized tables are provided in Appendix C and the analytical laboratory report and chain-of-custody forms are contained in Appendix E.

2.4 Paint and Chemical Containers and General Debris

During the environmental field review, two locations of stored paints and miscellaneous containers were present in Buildings A and D. These are depicted in Appendix G – Photo Logs. Additionally, approximately 100 cubic yards of waste tires were identified within Building D at 777 Northland Avenue.

2.5 Asbestos, Lead-Based Paint and PCBs

Within the existing on-site buildings on the subject properties, several sampling points were identified to properly characterize potential asbestos (roofing, piping, flooring, etc.) lead-based paint (walls, ceilings, other surfaces, etc.) and PCBs (glazing, caulk, etc.). A total of 213 suspect asbestos samples, 25 paint samples and 17 PCB samples were collected for analysis (see Appendix A for sample locations within Buildings A, B, C and D). Upon completion of the sampling, chain-of-custody forms were completed for the materials sampled and delivered under standard chain-of-custody protocol to ALS Environmental (ALS) for asbestos and Paradigm for Lead and PCBs, both NYSDOH-certified laboratories.

The suspect asbestos materials were analyzed in accordance with NYSDOL guidelines for the presence of asbestos. The procedures followed are in accordance with the NYSDOH Environmental Laboratory Approval Program (ELAP). Industrial Code Rule (ICR) 56 (12 NYCRR part 56) defines materials containing greater than one percent (1%) asbestos by weight as being an asbestos-containing material.

The paint samples were analyzed for lead via SW846 Method 3050 /6010 to determine the lead concentration of the paints. Materials having a concentration equal or greater than 0.5% by weight in lead are considered to be lead-based.

The materials sampled for PCBs were analyzed via USEPA Method 8082. According to the USEPA, materials containing greater than 50 parts per million (ppm) are considered PCB-containing.

3.0 INVESTIGATION AND ANALYTICAL TEST RESULTS

3.1 Soil Borings

The soil samples collected from borings at the following locations outside were part of the initial site wide investigation: SB-006 (0 - 4 ft.), SB-009 (0 - 4 ft.), SB-010 (4 - 8 ft.), SB-015 (4 - 9 ft.), SB-016 (4 - 8 ft.), and SB-018 (4 - 8 ft.), SB-019 (0 – 4 ft.). Additional soil borings were installed within the on-site buildings' footprint to investigate subsurface soil conditions beneath the existing flooring. Buildings A, C, and D had samples collected at the following locations: ASB-5 (4 - 8 ft.), ASB-5 (8 – 10.2 ft.), ASB-8 (0 – 4 ft.), CSB-3 (0 – 4 ft.), DSB-2 (0 – 4 ft.), that were analyzed by Paradigm for VOCs via USEPA method 8260B TCL, SVOCs via USEPA Method 8270C, RCRA Metals via USEPA Methods 3050/6010/7471, PCBs via USEPA 8082, and Pesticides via USEPA 8081. The analytical laboratory-summarized tables are provided in Appendix C and the analytical laboratory report and chain-of-custody forms are contained in Appendix E.

The NYSDEC Department of Environmental Remediation (DER) publication *DER-10* contains cleanup guidelines for various types of existing or proposed land uses. The DER 10, Section 1.12 Use of Site guidelines indicates that the subject properties would fall under restricted use commercial or industrial use criteria.

The laboratory analysis results were compared to the NYSDEC's *Part 375-6 Remedial Program Soil Cleanup Levels (375-6.4) Soil Cleanup Objectives* for Commercial and Industrial use. As shown in Table 1 in Appendix C, the soils boring analytical results for VOCs were below the laboratory method detection limit (MDL) in samples collected from all boring locations. SVOCs were detected at levels above the *NYSDEC's Part 375-6.4 Soil Cleanup Objectives* for Commercial and/or Industrial use in samples collected from SB006, SB016, SB018, SB019, ASB5, CSB3, and DSB2 for compounds Benzo (a) pyrene, Benzo (b) fluoranthene, and Dibenz (a,h) anthracene. RCRA Metals were detected at levels above the *NYSDEC's Part 375-6.4 Soil Cleanup Objectives* in samples collected from SB006, SB009, SB019, and ASB8 for compounds Arsenic, Barium, Cadmium, Lead, and Mercury. PCBs from SB009, SB010, and SB019 were detected above the Commercial Use limits for Aroclor 1254.

3.2 Monitoring Wells

Groundwater was sampled from each newly installed monitoring well (MW-1, MW-2 and MW-3) utilizing low-flow groundwater sampling techniques. The samples were analyzed for VOCs via USEPA Method 8260B TCL including MTBE, SVOCs via USEPA Method 8270C, PCBs via USEPA Method 8082A, and RCRA Metals via USEPA Methods 7471B, 6010C, and 3050. The analytical laboratory summarized tables are provided in Appendix C and the analytical laboratory report and chain-of-custody forms are contained in Appendix E.

The Groundwater Effluent Limitations (Table 3 cf. in 6 NYCRR §703.6) for discharges to Class GA waters were utilized for comparison of the groundwater samples collected from MW-1, MW-2 and MW-3. The comparison indicates that groundwater limitations were exceeded for Trichloroethene and cis-1, 2-Dichloroethene. The sample from MW-3 contained Trichloroethene

at a concentration of 0.028 ppb and cis-1, 2-Dichloroethene at a concentration of 0.013 ppb,exceeding the groundwater limitations. Due to the elevated Trichloroethene and cis-1, 2-Dichloroethene in MW-3, Fisher Associates, on behalf of ESDC and Nordell II, notified the NYSDEC. The NYSDEC assigned number 1503832 to the reported spill.

Samples collected from monitoring wells were also analyzed for the presence of SVOCs via USEPA Method 8270C. No SVOC compounds were detected above the MDL as shown on Table 2 – Groundwater Monitoring Well Samples in Appendix C.

In addition to analyzing groundwater samples for VOC's and SVOCs, samples were analyzed for concentrations of RCRA metals and PCBs. As shown in Table 3 in Appendix C, only selenium was detected below the laboratory TOGS in each sample collected. The TOGS limit for selenium is 0.020 ppm while MW-2 and MW-3 identified concentrations at 0.012 and 0.011 ppm, respectively. However, the selenium levels detected in these samples did not exceed the Groundwater Effluent Limitations. Additionally, no PCBs were detected in the well sampling as shown on Table 4 in Appendix C.

3.3 Facility Environmental Waste

Liquid pit samples were collected from the following locations: AP1, AP2, AP3-L, AP3-S, AP4-L, AP5-L, AP6-L, AP7-L, AP8-L, AP9-L, AP10-L, AP11-L, AP-13L, AP-14L, AP15-L, AP16-S, AP17-L, AP18-L, AP-19-L, CP1-L, CP2-L, DP1-L and DP2-L. Samples were collected and analyzed for the presence of SVOCs via USEPA Method 8270C, RCRA Metals via USEPA Methods 3050/6010/7471, PCBs via USEPA 8082, and Pesticides via USEPA 8081. VOCs detected in these liquid samples included 4-Methyl-2-pentanone, Acetone, m, p-Xylene, 1, 4-Dichlorobenzene, Ethylbenzene, o-Xylene, and Tetrachloroethene (see Table 1 – Summary Pit Liquid Samples in Appendix C). SVOCs were also detected in AP6-L, AP8-L, AP11-L, and AP13-L and included in Table 2 – Summary Pit/Sump Liquid Samples in Appendix C. RCRA Metals were also detected at detectable concentrations in AP2-L, AP4-L, AP5-L, AP6-L, AP7-L, AP8-L, AP9-L, AP10-L, AP11-L, AP13-L, AP14-L, AP15-L, AP17-L, AP18-L, AP19-L , ASB-L, AS2-L, AWLTF, CP1-L, CP2-L, DP1-L, and DP2-L (see Table 3 – Summary Pit/Sump Liquid Samples Appendix C). PCBs were detected in AS2-L, AP3-L and AP9-L (see Table 4 – Summary Pit/Sump Liquid Samples in Appendix C).

Solid samples were also collected in pits, sumps, flooring and a storm drain at the following locations: AP3-S, AP16-S, AWFloor, CWFloor, CSF1, and DSD1. Samples were collected and analyzed for the presence of SVOCs via USEPA Method 8270C, RCRA Metals via USEPA Methods 3050/6010/7471, PCBs via USEPA 8082, and Pesticides via USEPA 8081. Specific compounds detected included SVOCs at locations AP3-S, AP16-S, AWFloor, CWFloor, and DSD1. RCRA Metals were detected at AP3-S, AP16-S, AWFloor, CWFloor, CFS1, and DSD1. PCBs were detected at AWFloor, CWFloor, while Pesticides were detected at DSD1 (see in Tables 2, 3 and 4 – Summary Pit/Flooring/Drain Solid Samples Appendix C).

3.4 Asbestos, Lead and PCBs

Asbestos, lead-based paint and PCB samples were collected from the existing on-site buildings on the subject properties, to properly characterize potential asbestos (roofing, piping, flooring,

etc.) lead-based paint (walls, ceilings, other surfaces, etc.) and PCBs (glazing, caulk, etc.). A total of 213 suspect asbestos samples, 25 paint samples and 17 PCB samples were collected for analysis (see Appendix A). Building materials are considered to be ACM if the total concentration of the asbestos exceeds 1% by weight. Paints having a concentration equal or greater than 0.5% by weight in lead are considered to be lead-based. Materials are considered to be PCB-containing if the total concentration of the PCB compounds exceeds 50 ppm.

Asbestos and lead-based paint were identified in buildings on the subject properties. In Building C at 631 Northland Avenue, hard insulation and rope gaskets associated with the furnaces, pipe insulation/fittings, roof flashing cement on roof equipment and the roof entryway are all considered to be ACM. Asbestos is assumed to exist in gaskets throughout the plant, and on piping associated with bathrooms (behind walls/above ceilings). Trace amounts (less than 1%) of asbestos were found in the window glazing, expansion joints, and the bottom layer of the roof. Lead-based paint was discovered in the yellow paint on stairways, railing, catwalks and bollards, and in the blue paint found on doors and around the exterior. PCBs were not detected in any caulks or glazings.

In Building A at 683 Northland, asbestos was found in floor tiles (both 9”x9” and 12”x12”) on all floors of the office areas, the majority of the window caulks and glazings, boiler insulation, and pipe insulation in the boiler room. All are considered ACM. Asbestos is assumed to exist on roof materials, gaskets throughout the building, and on piping associated with bathrooms (behind walls/above ceilings). Trace amounts (less than 1%) of asbestos were found in the floor tile, black mastics, and various window glazings. Lead-based paint was discovered in the yellow paint on stairways, railing, catwalks and bollards, in the blue paint found on doors and around the exterior and on the green lockers on first floor of the office areas. PCBs were not detected in any caulks or glazings. Regarding Building B, no suspected ACM was identified; therefore, no samples were collected.

In Building D at 741 Northland, asbestos was found in transite panels, storage area floor tiles, window caulks/glazings, pipe insulations, and roofing materials. All are considered ACM. Asbestos is assumed to exist in gaskets throughout the buildings. Lead-based paint was discovered in the yellow paint on stairways, railing, catwalks, and in the brown paint on the steel beams. PCBs were not detected in any caulks or glazings.

Also in Building D at 777 Northland, asbestos was found in roofing materials (on roof and on ground as debris) which is considered ACM. Asbestos is assumed to exist on exterior caulks and glazings (per 741 Northland findings), on furnace insulations, and in gaskets throughout the building. Trace amounts (less than 1%) of asbestos were found in interior glazings and ceiling tiles. Lead-based paint was discovered in the brown paint on the steel beams. Based on the results for 741 Northland, it was assumed that PCBs were not present in any caulks or glazings.

Tables summarizing the results of asbestos, lead-based paint, and PCBs are included in Appendix F.

Underground ACM steam lines are assumed to exist throughout the subject properties (631,683, 741 and 777 Northland).

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Subsurface Soils

The purpose of the subsurface investigation was to determine the potential for encountering potential contaminated soils from on-site or off-site sources. To accomplish this, a total of thirty-five (35) soil borings were advanced to provide environmental data for the subject properties. The soils recovered were monitored for the presence of VOCs on site, placed in laboratory grade containers, and analyzed by Paradigm for VOCs, SVOCs, RCRA metals, and PCBs.

As shown in Table 1 in Appendix C, the soils boring analytical results for VOCs were detected at levels below the laboratory MDL in samples collected from all sampled boring locations. SVOCs were detected at levels above the laboratory MDL in samples from SB006, SB016, SB018, SB019, ASB5, CSB3, and DSB2 for compounds Benzo (a) pyrene, Benzo (b) fluoranthene, and Dibenz (a,h) anthracene. RCRA Metals were detected at levels above the laboratory MDL in samples from SB006, SB009, SB019, and ASB8 for compounds Arsenic, Barium, Cadmium, Lead, and Mercury.

PCBs from soil borings SB009, SB010, and SB019 were detected above the "commercial use" limits for Aroclor 1254.

Based on the laboratory and PID data collected and field observations, it is recommended that a soil management plan (SMP) be prepared and implemented for any on-site excavations or other intrusive work. In addition, soil sampling to determine the localized horizontal and vertical extent of contamination surrounding SB009, SB010, and SB019 should also be performed to identify the area to remediate. This area has exceeded levels of RCRA Metals, and PCBs, with noticeable petroleum staining and product. Any soils to be left in place on site should be evaluated to determine the depth to contamination encountered and the need for a sub-slab vapor extraction system or similar engineering controls.

4.2 Groundwater

Groundwater was sampled from each newly installed monitoring well (MW-1, MW-2 and MW-3) utilizing low-flow groundwater sampling techniques. The samples were analyzed for VOCs including MTBE, SVOCs, PCBs, and RCRA Metals. The Groundwater Effluent Limitations (Table 3 cf. in 6 NYCRR §703.6) for discharges to Class GA waters were utilized for comparison of the groundwater samples collected from MW-1, MW-2 and MW-3. The comparison indicates that groundwater limitations were exceeded for Trichloroethene. The sample from MW-3 contained Trichloroethene at a concentration of 0.028 ppb exceeding groundwater limitations and cis-1, 2-Dichloroethene was also exceeded. Due to the elevated Trichloroethene in MW-3, Fisher Associates, on behalf of ESDC and Nordell II, notified the NYSDEC. The NYSDEC assigned number 1503832 to the reported spill.

Samples collected from monitoring wells were also analyzed for the presence of SVOCs via USEPA Method 8270C. No compounds were detected above the MDL.

In addition to analyzing groundwater samples for VOC's and SVOCs, samples were analyzed for concentrations of RCRA metals and PCBs. Only selenium was detected below the laboratory MDL in each sample collected. The MDL for selenium is 0.020 ppm while MW-2 and MW-3 identified concentrations at 0.012 and 0.011 ppm, respectively. However, the selenium levels detected in these samples did not exceed the Groundwater Effluent Limitations.

No PCBs were detected in the well sampling.

Based on the groundwater analytical results, MW-3 identified concentrations of TCE and cis-1,2 DCE to be above the Groundwater Effluent Limitations. Therefore, it is recommended that MW-1, MW-2 and MW-3 be resampled within three (3) months from issuance of this report to compare the initial findings.

4.3 Facility Environmental Waste

Liquid pit samples were collected from the following locations: AP1, AP2, AP3-L, AP3-S, AP4-L, AP5-L, AP6-L, AP7-L, AP8-L, AP9-L, AP10-L, AP11-L, AP-13L, AP-14L, AP15-L, AP16-S, AP17-L, AP18-L, AP-19-L, CP1-L, CP2-L, DP1-L and DP2-L. Samples were collected and analyzed for the presence of SVOCs via USEPA Method 8270C, RCRA Metals via USEPA Methods 3050/6010/7471, PCBs via USEPA 8082, and Pesticides via USEPA 8081. VOCs detected in these liquid samples included 4-Methyl-2-pentanone, Acetone, m, p-Xylene, 1, 4-Dichlorobenzene, Ethylbenzene, o-Xylene, and Tetrachloroethene (see Table 1 – Summary Pit Liquid Samples in Appendix C. SVOCs were also detected in AP6-L, AP8-L, AP11-L, and AP13-L and included in Table 2 – Summary Pit/Sump Liquid Samples in Appendix C. RCRA Metals were also detected at detectable concentrations in AP2-L, AP4-L, AP5-L, AP6-L, AP7-L, AP8-L, AP9-L, AP10-L, AP11-L, AP13-L, AP14-L, AP15-L, AP17-L, AP18-L, AP19-L , ASB-L, AS2-L, AWLTF, CP1-L, CP2-L, DP1-L, and DP2-L the liquid samples and included. (see Table 3 – Summary Pit/Sump Liquid Samples Appendix C). PCBs were detected in AS2-L, AP3-L and AP9-L (see Table 4 – Summary Pit/Sump Liquid Samples in Appendix C).

Solid samples were also collected in sumps, flooring and a storm drain at the following locations: AP3-S, AP16-S, AWFloor, CWFloor, CSF1, and DSD1. Samples were collected and analyzed for the presence of SVOCs via USEPA Method 8270C, RCRA Metals via USEPA Methods 3050/6010/7471, PCBs via USEPA 8082, and Pesticides via USEPA 8081. Specific compounds detected included SVOCs at locations AP3-S, AP16-S, AWFloor, CWFloor, and DSD1. RCRA Metals were detected at AP3-S, AP16-S, AWFloor, CWFloor, CFS1, and DSD1. PCBs were detected at AWFloor, CWFloor, while Pesticides were detected at DSD1 and are summarized in Tables 2, 3 and 4 – Summary Pit/Flooring/Drain Solid Samples Appendix C.

Cleaning and removal of existing waste in pits and on pit walls, sumps, secondary containment areas (waste oil AST) , wood flooring, and the five (5) USTs, will need to be conducted and associated waste handled properly for disposal. Samples for Toxicity Characterization Leachate Procedure (TCLP) will most likely be required for landfill characterization before disposal of any materials contained in these waste containers or solids.

4.4 ACM, Lead-Based Paint, PCBs

ACM has been identified at several locations in on-site buildings on the subject properties. In accordance with Industrial Code Rule 56 (12 NYCRR Part 56), no demolition or renovation work shall commence by any owner or agent prior to completion of asbestos abatement performed by a licensed asbestos abatement contractor. If suspect ACM not identified in this report are discovered during the renovation/demolition process, the presence, location and quantity of newly discovered material, must be conveyed within 24 hours of discovery to the building owner or their representative. All activities must cease in the area where the presumed ACM or suspect miscellaneous ACM is found, until a licensed asbestos contractor appropriately assesses and manages the discovered materials. The following is also noted:

- Incidental Disturbances at Building D at 741 Northland Avenue. Areas where the entire structure has collapsed on the west side of the building, along areas of roof collapse throughout the building, and areas where pipe insulation has dropped to the ground should all be considered incidental disturbances. These areas are in need of proper clean up prior to demolition and/or occupancy of the buildings.

- Incidental Disturbances at Building D at 777 Northland Avenue. Areas of roof collapse throughout the building, and areas around the exterior where roofing is on the ground should all be considered incidental disturbances. These areas are in need of proper clean up prior to demolition and/or occupancy of the buildings.

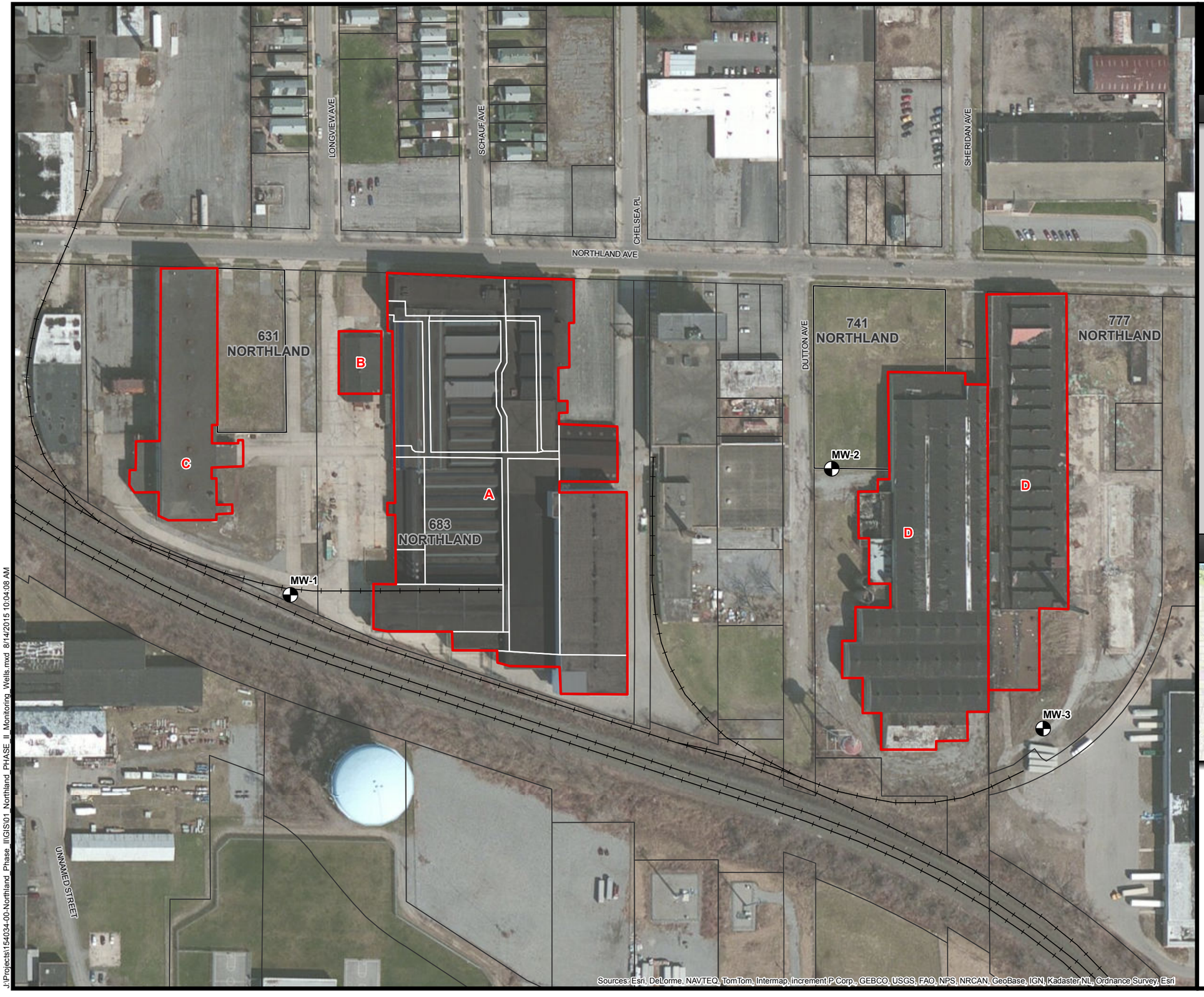
It is recommended that a Handling of Lead-Containing Materials specification section be developed to be used during cleanup activities. This specification should specify the requirements for the detection and prevention of lead dust contamination in any lead dust control work areas and areas adjacent to them, protection of workers, post-work cleaning, pre-disposal testing and appropriate disposal of removed material. In addition, all employees involved in construction work on the site must follow the Occupational Safety & Health Administration (OSHA) (29 CFR §1926.62) lead exposure regulation, which considers any amount of lead to be of concern. The regulation states that the employer shall assure that no employee is exposed to lead at concentrations greater than fifty micrograms per cubic meter of air (50 $\mu g/m^3$) averaged over an 8-hour period.

The investigation conducted by Fisher Associates also included the testing of building materials such as caulks and sealants for PCBs. Based on analytical results, no PCBs were detected in these building materials. If suspect materials not identified in this report are discovered during the demolition/renovation process, the presence, location and quantity of newly discovered material, must be conveyed within 24 hours of discovery to the building owner or their representative.

APPENDIX A

PROJECT LOCATION MAPS

FIGURE 1
BASE MAP
NORTHLAND AVENUE PROPERTIES
BUILDINGS A, B, C, & D

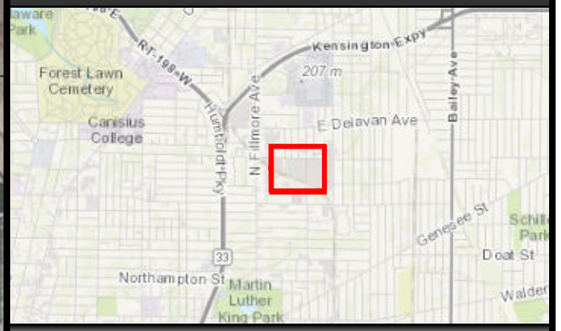


LEGEND

- Groundwater Monitoring Well (MW-1)
- Railroad
- Parcel Boundary
- Buildings (A, B, C & D)

0 150 Feet

REGIONAL MAP

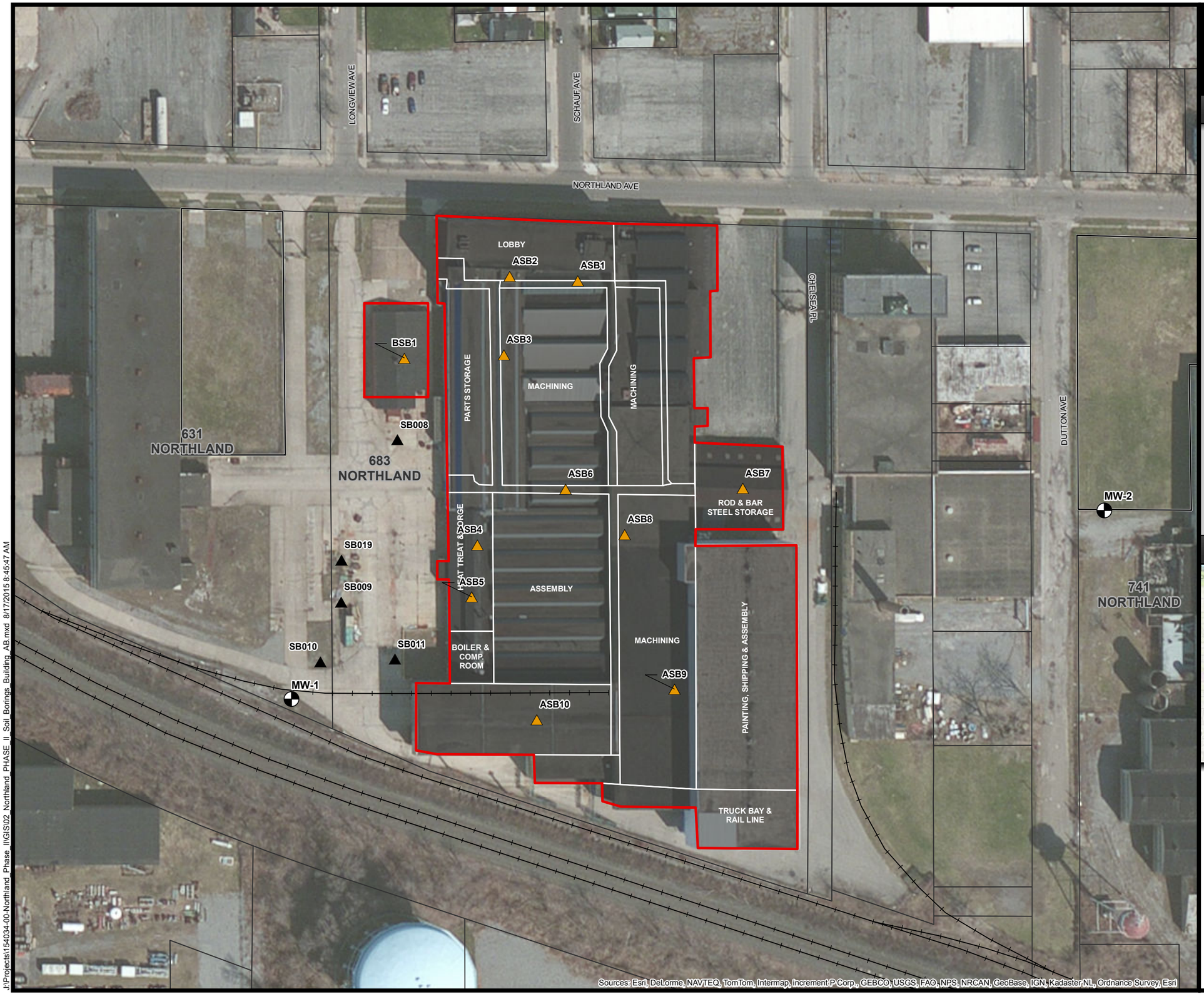


AUTHOR: EM
REVISION DATE: 8/14/2015 10:04:08 AM
Coordinate System: NAD 1983 StatePlane New York West FIPS 3103 Feet
Projection: Transverse Mercator
DATA SOURCES:
Aerials: ESRI World Imagery http://goto.arcgisonline.com/maps/World_Imagery
Roads: NYS ALIS 2013 http://www.nysgis.state.ny.us/

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FIGURE 2
BUILDING A&B SOIL BORING AND MONITORING WELL LOCATIONS
NORTHLAND AVENUE PROPERTIES
683 NORTHLAND AVE, BUFFALO, NY 14211



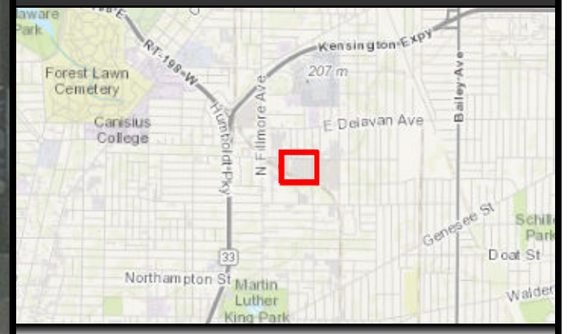
LEGEND

- Internal Soil Boring (ASB1) (BSB1)
- External Soil Boring (SB008)
- Monitoring Well (MW-1)
- Railroad
- Buildings A & B

0 100 Feet

N

REGIONAL MAP



AUTHOR: AK/DT
REVISION DATE: 8/17/2015 8:45:47 AM
Coordinate System: NAD 1983 StatePlane New York West FIPS 3103 Feet
Projection: Transverse Mercator
DATA SOURCES:
Aerials: ESRI World Imagery http://goto.arcgisonline.com/maps/World_Imagery
Roads: NYS ALIS 2013 http://www.nysgis.state.ny.us/

*Samples collected June 2015

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FIGURE 3
BUILDING A&B SURFACE LIQUIDS AND SOLIDS SAMPLE LOCATIONS
NORTHLAND AVENUE PROPERTIES
683 NORTHLAND AVE, BUFFALO, NY 14211

LONGVIEW AVE
SCHAUF AVE
NORTHLAND AVE
CHELSEA PL
DUTTON AVE
631 NORTHLAND
683 NORTHLAND
741 NORTHLAND
LOBBY
PARTS STORAGE
MACHINING
MACHINING
ROD & BAR STEEL STORAGE
HEAT TREAT & FORGE
ASSEMBLY
BOILER & COMP. ROOM
MACHINING
PAINTING, SHIPPING & ASSEMBLY
TRUCK BAY & RAIL LINE
AP7L
AP11L
AP10L
AP8L
AP6L
AP9L
AP12L (NS)
AP5L
AP4L
AP14L
AW FLOOR
AP13L
AP15L
AP3L
AP3S
AP16S
AP17L
AP2L
ASBL
AP18L
AP19L
AP1L
TANK 630
TANK DTE25
AWLTF
AS2L
NORTH UST
MIDDLE UST
SOUTH UST

Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri

LEGEND

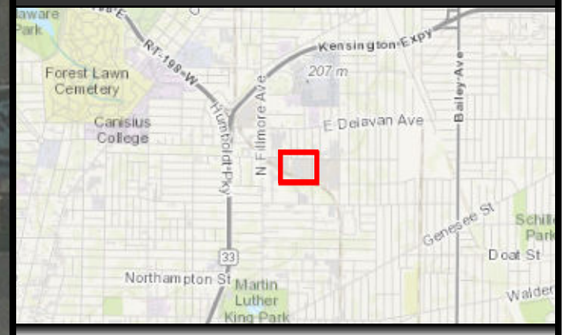
- Solid Sample Location (AP3S)
- Liquid Sample Location (AP3L)
- Railroad
- Parcel Boundary
- Site Buildings A & B

NS = Not Sampled
P1 = Former Machinery Pits
AWFLOOR = Wood Block
UST = Underground Storage Tank
ASB = Sump Basement

0 100 Feet

N

REGIONAL MAP



AUTHOR: AK/DT
REVISION DATE: 8/14/2015 11:46:07 AM
Coordinate System: NAD 1983 StatePlane New York West FIPS 3103 Feet
Projection: Transverse Mercator
DATA SOURCES:
Aerials: ESRI World Imagery http://goto.arcgisonline.com/maps/World_Imagery
Roads: NYS ALIS 2013 http://www.nysgis.state.ny.us/

*Samples collected June 2015

FISHER ASSOCIATES
www.fisherassoc.com

J:\Projects\154034-00-Northland_Phase_II\GIS\03_Northland_PHASE_II_Sample_Locations_Map_Building_AB.mxd 8/14/2015 11:46:07 AM

FIGURE 4
BUILDING C - SOIL BORING LOCATIONS
NORTHLAND AVENUE PROPERTIES
631 NORTHLAND AVE
BUFFALO, NY 14211

NORTHLAND AVE

SB001

631 NORTHLAND

CSB1

VACANT LAND

SB002

PLATE CUTTING/FABRICATING

FABRICATING

CSB2

SB007

683 NORTHLAND

SB003

SB005

SB004

CLEANING & FURNACE

CSB3

GRINDING

SB006

RAIL/TRUCK BAY

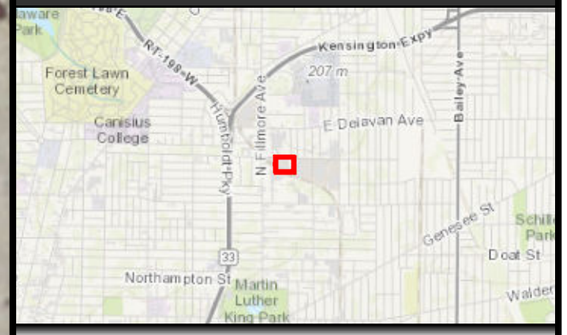
Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri

LEGEND

- Internal Soil Boring (CSB1)
- External Soil Boring (SB001)
- Railroad
- Building C

0 50 Feet

REGIONAL MAP



AUTHOR: AK/DT
REVISION DATE: 8/14/2015 10:07:51 AM
Coordinate System: NAD 1983 StatePlane New York West FIPS 3103 Feet
Projection: Transverse Mercator
DATA SOURCES:
Aerials: ESRI World Imagery http://goto.arcgisonline.com/maps/World_Imagery
Roads: NYS ALIS 2013 http://www.nysgis.state.ny.us/

*Samples collected June 2015

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J:\Projects\154034-00-Northland_Phase_II\GIS\04_Northland_PHASE_II_Soil_Borings_Building_C.mxd 8/14/2015 10:07:51 AM

FIGURE 5
BUILDING C - SURFACE LIQUIDS AND SOLIDS SAMPLE LOCATIONS
NORTHLAND AVENUE PROPERTIES
631 NORTHLAND AVE, BUFFALO, NY 14211

NORTHLAND AVE

LONGVIEW AVE

CFS1

CP1

CW FLOOR

CP2

CS1

PLATE CUTTING/FABRICATING

FABRICATING

GRINDING

CLEANING & FURNACE

RAIL/TRUCK BAY

VACANT LAND

631 NORTHLAND

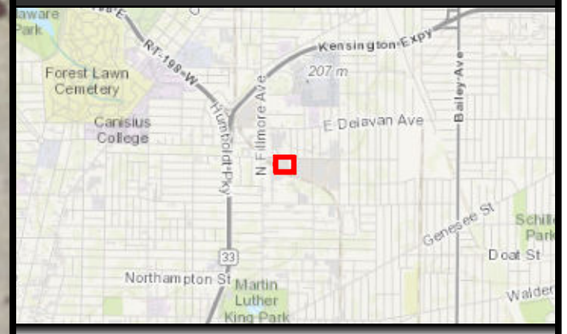
683 NORTHLAND

LEGEND

- Solid Sample Location (CFS1)
- Liquid Sample Location (CP1)
- Railroad
- Building C

0 50 Feet

REGIONAL MAP



AUTHOR: AK/DT
REVISION DATE: 8/14/2015 11:47:22 AM
Coordinate System: NAD 1983 StatePlane New York West FIPS 3103 Feet
Projection: Transverse Mercator
DATA SOURCES:
Aerials: ESRI World Imagery http://goto.arcgisonline.com/maps/World_Imagery
Roads: NYS ALIS 2013 http://www.nysgis.state.ny.us/

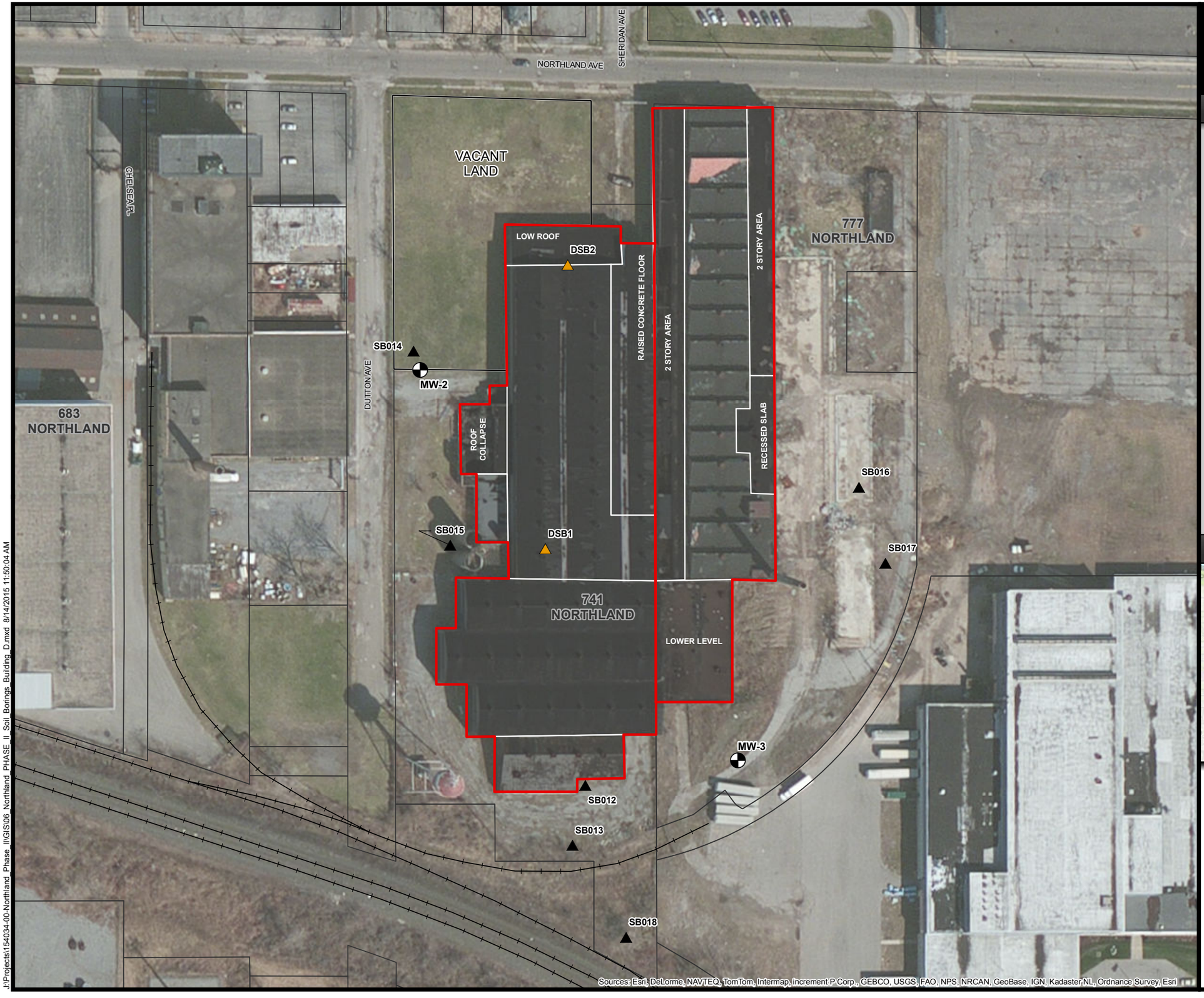
* Samples collected June 2015

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Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri

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FIGURE 6
BUILDING D - SOIL BORING AND MONITORING WELL LOCATIONS
NORTHLAND AVENUE PROPERTIES
741 & 777 NORTHLAND AVE, BUFFALO, NY 14211

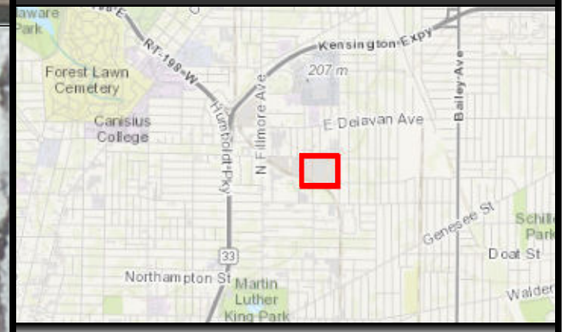


LEGEND

- Internal Soil Boring (DSB1)
- External Soil Boring (SB016)
- Monitoring Well (MW-3)
- Railroad
- Building D

0 100 Feet

REGIONAL MAP



AUTHOR: AK/DT
REVISION DATE: 8/14/2015 11:50:04 AM
Coordinate System: NAD 1983 StatePlane New York West FIPS 3103 Feet
Projection: Transverse Mercator
DATA SOURCES:
Aerials: ESRI World Imagery http://goto.arcgisonline.com/maps/World_Imagery
Roads: NYS ALIS 2013 http://www.nysgis.state.ny.us/

*Samples collected June 2015

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J:\Projects\154034-00-Northland_Phase_II\GIS\06_Northland_PHASE_II_Soil_Borings_Building_D.mxd 8/14/2015 11:50:04 AM

FIGURE 7
BUILDING D - SURFACE LIQUIDS AND SOLIDS SAMPLE LOCATIONS
NORTHLAND AVENUE PROPERTIES
741 & 777 NORTHLAND AVE, BUFFALO, NY 14211

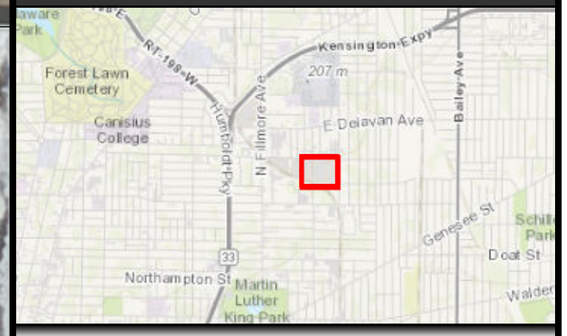
NORTHLAND AVE
SHERIDAN AVE
CHELSEA PL
DUTTON AVE
VACANT LAND
LOW ROOF
ROOF COLLAPSE
RAISED CONCRETE FLOOR
2 STORY AREA
2 STORY AREA
RECESSED SLAB
683 NORTHLAND
741 NORTHLAND
777 NORTHLAND
LOWER LEVEL
DP2
DP2
DP1
DSD1
DSD1

LEGEND

- Solid Sample Location (DSD1)
- Liquid Sample Location (DP1)
- Railroad
- Building D

0 100 Feet

REGIONAL MAP



AUTHOR: AK/DT
REVISION DATE: 8/14/2015 11:51:46 AM
Coordinate System: NAD 1983 StatePlane New York West FIPS 3103 Feet
Projection: Transverse Mercator
DATA SOURCES:
Aerials: ESRI World Imagery http://goto.arcgisonline.com/maps/World_Imagery
Roads: NYS ALIS 2013 http://www.nysgis.state.ny.us/

*Samples collected June 2015

FISHER ASSOCIATES
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Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri

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FIGURE 8
GROUNDWATER CONTOUR FLOW MAP
JUNE 29, 2015
NORTHLAND AVENUE PROPERTIES

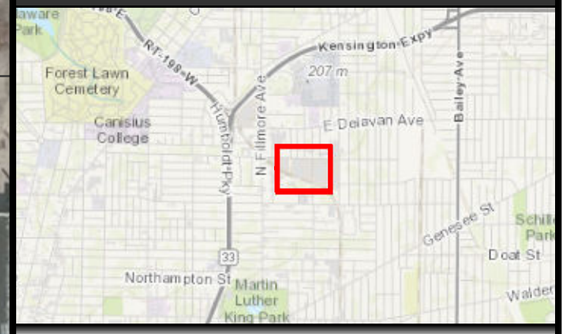
LEGEND

- Groundwater Flow Direction
- Groundwater Monitoring Well (MW-1)
- Groundwater Contour
- Railroad
- Parcel Boundary
- Buildings (A, B, C & D)

Ex. 640.07 (Groundwater Elevation, ft. amsl)
*Groundwater measurements performed on June 29, 2015

0 150 Feet

REGIONAL MAP



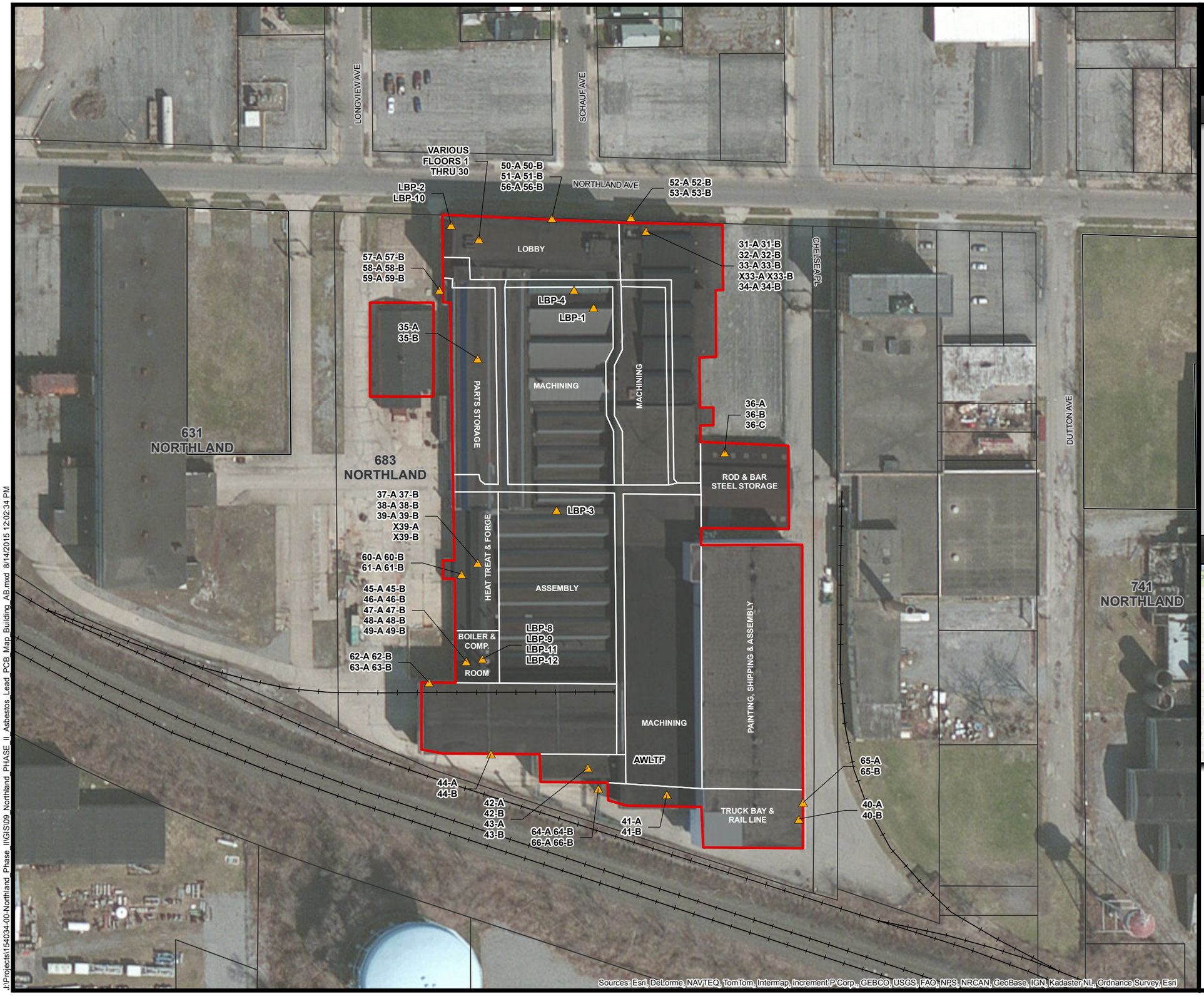
AUTHOR: EM/DT
REVISION DATE: 8/14/2015 10:19:12 AM
Coordinate System: NAD 1983 StatePlane New York West FIPS 3103 Feet
Projection: Transverse Mercator
DATA SOURCES:
Aerials: ESRI World Imagery http://goto.arcgisonline.com/maps/World_Imagery
Roads: NYS ALIS 2013 http://www.nysgis.state.ny.us/

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J:\Projects\154034-00-Northland_Phase_II\GIS\08_Northland_PHASE_II_GW_Monitoring_Wells.mxd 8/14/2015 10:19:12 AM

Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri

FIGURE 9
BUILDING A&B - ASBESTOS, LEAD-BASED PAINT, AND PCB SAMPLE LOCATIONS
NORTHLAND AVENUE PROPERTIES
683 NORTHLAND AVE, BUFFALO, NY 14211



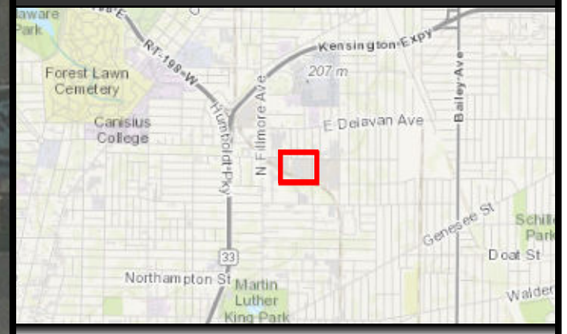
LEGEND

- Sample Location
- Railroad
- Parcel Boundary
- Site Buildings A & B

0 100 Feet

N

REGIONAL MAP



AUTHOR: AK/DT
REVISION DATE: 8/14/2015 12:02:34 PM
Coordinate System: NAD 1983 StatePlane New York West FIPS 3103 Feet
Projection: Transverse Mercator
DATA SOURCES:
Aerials: ESRI World Imagery http://goto.arcgisonline.com/maps/World_Imagery
Roads: NYS ALIS 2013 http://www.nysgis.state.ny.us/

*Samples collected June 2015

FISHER ASSOCIATES
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J:\Projects\154034-00-Northland_Phase_II\GIS\09_Northland_PHASE_II_Asbestos_Lead_PCB_Map_Building_AB.mxd 8/14/2015 12:02:34 PM

FIGURE 10
BUILDING C - ASBESTOS, LEAD-BASED PAINT, AND PCB SAMPLE LOCATIONS
NORTHLAND AVENUE PROPERTIES
631 NORTHLAND AVE, BUFFALO, NY 14211

NORTHLAND AVE

LONGVIEW AVE

1-A

1-B

7-B

6-B

VACANT LAND

PLATE CUTTING/FABRICATING

FABRICATING

4-A 4-B
5-A 5-B

2-A
2-B

631 NORTHLAND

3-A
3-B

LBP-1

683 NORTHLAND

LBP-7

LBP-8

LBP-3

15-A

CLEANING & FURNACE

GRINDING

16-A 16-B
17-A 17-B
18-A 18-B

LBP-4
LBP-5
LBP-6

6-A
7-A
LBP-2

RAIL/TRUCK BAY

ROOF:
8-A 8-B
9-A 9-B
10-A 10-B
11-A 11-B
12-A 12-B
13-A 13-B
14-A 14-B

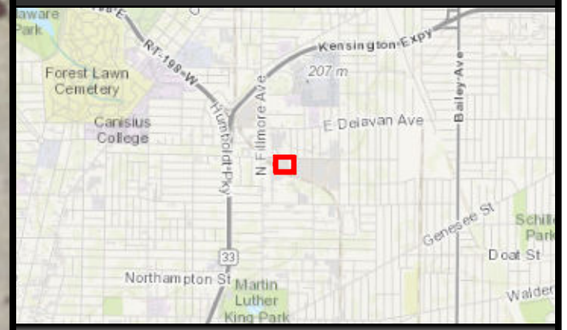
Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri

LEGEND

- Sample Location
- Railroad
- Building C

0 50 Feet

REGIONAL MAP



AUTHOR: AK/DT
REVISION DATE: 8/14/2015 12:21:11 PM
Coordinate System: NAD 1983 StatePlane New York West FIPS 3103 Feet
Projection: Transverse Mercator
DATA SOURCES:
Aerials: ESRI World Imagery http://goto.arcgisonline.com/maps/World_Imagery
Roads: NYS ALIS 2013 http://www.nysgis.state.ny.us/

* Samples collected June 2015

FISHERASSOCIATES
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J:\Projects\154034-00-Northland_Phase_II\GIS\10_Northland_PHASE_II_Asbestos_Lead_PCB_Map_Building_C.mxd 8/14/2015 12:21:11 PM

FIGURE 11
BUILDING D - ASBESTOS, LEAD-BASED PAINT, AND PCB SAMPLE LOCATIONS
NORTHLAND AVENUE PROPERTIES
741 & 777 NORTHLAND AVE, BUFFALO, NY 14211

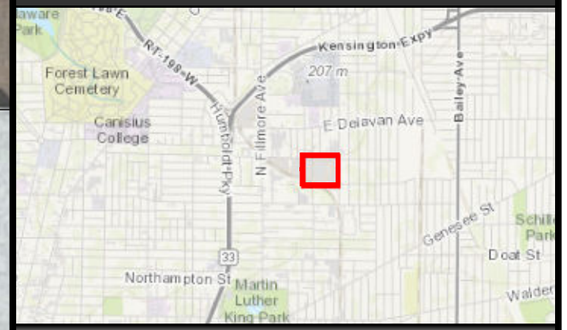


LEGEND

- Sample Location
- Railroad
- Building D

0 100 Feet

REGIONAL MAP



AUTHOR: AK/DT
REVISION DATE: 8/14/2015 12:39:55 PM
Coordinate System: NAD 1983 StatePlane New York West FIPS 3103 Feet
Projection: Transverse Mercator
DATA SOURCES:
Aerials: ESRI World Imagery http://goto.arcgisonline.com/maps/World_Imagery
Roads: NYS ALIS 2013 http://www.nysgis.state.ny.us/

*Samples collected June 2015

FISHER ASSOCIATES
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J:\Projects\154034-00-Northland_Phase_II\GIS\11_Northland_PHASE_II_Asbestos_Lead_PCB_Map_Building_D.mxd 8/14/2015 12:39:55 PM

APPENDIX B

SOIL BORING LOGS AND WELL LOGS

FISHERASSOCIATES

BORING LOG

Project Number:	143016	Test Boring Number:	SB001
Project Name:	Empire State Development	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	May 7, 2015
Operator:	Doug	Weather:	Sunny 65 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1	1, 4 Feet	Gravel Asphalt Fill 6" Yellowish Red 5 YR 4/6, Till, medium stiff, moist	0.0 PPM
2			
3			
4	2, 4 Feet		0.0 PPM
5			
6			
7			
8			
9	3, 2 Feet	Yellowish Red 5YR 4/6, Till, silty, some f-c sand, trace caly soft, moist	2.5 PPM
10		Bottom of Boring = Refusal 9.5 feet BGS	
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

FISHERASSOCIATES

BORING LOG

Project Number:	143016	Test Boring Number:	SB002
Project Name:	Empire State Development	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	May 7, 2015
Operator:	Doug	Weather:	Sunny 75 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1 2 3 4	1, 4 Feet	Brown, 10YR5/3, Fill, moist, med stiff	0.0 PPM
5 6 7 8	2, 4 Feet	Yellowish Red, 5YR 4/6, Till, Silty Clay, moist, very stiff	0.4 PPM
9 10	3, 2 Feet	Brown 10YR 5/3, Till, f-c sand and silt, some f-c gravel and cobbles, trace of clay, rounded, moist to wet, soft	0.6 PPM
11 12 13 14 15 16 17 18 19 20		Bottom of Boring = Refusal 10.5 feet BGS	

FISHERASSOCIATES

BORING LOG

Project Number:	143016	Test Boring Number:	SB003
Project Name:	Empire State Development	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	May 7, 2015
Operator:	Doug	Weather:	Sunny 75 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1	1, 4 Feet	Asphalt/gravel 6" Dark Brown, 10YR 3/3, Fill, brick fragments, damp, med stiff	0.0 PPM
2			
3			
4		Peat	
5	2, 4 Feet	Yellowish Red, 5YR 4/6, Till, Silty Clay, some lenses f-c sand, moist, very stiff	0.7 PPM
6			
7			
8	3, 1.5 Feet		1.0 PPM
9			
10		Bottom of Boring = Refusal 9.5 feet BGS	
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

BORING LOG

Project Number:	143016	Test Boring Number:	SB004
Project Name:	Empire State Development	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	May 7, 2015
Operator:	Doug	Weather:	Sunny 75 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1	1, 4 Feet	Grass/Topsoil 3" Dark Brown, 10YR 3/3, Fill, ash, brick fragments, damp, loose	0.9 PPM
2			
3			
4		Peat	
5	2, 3.5 Feet	Yellowish Red, 5YR 4/6, Till, Clay, some f-c silt, trace of cobbles, subrounded, moist, very stiff	0.1 PPM
6			
7			
8	3, 3.5 Feet	Yellowish Red, 5YR 4/6, Till, Clay, some f-c silt, subrounded, moist, very hard	0.1 PPM
9			
10			
11			
12		Bottom of Boring = Refusal 11.5 feet BGS	
13			
14			
15			
16			
17			
18			
19			
20			

FISHERASSOCIATES

BORING LOG

Project Number:	143016	Test Boring Number:	SB005
Project Name:	Empire State Development	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	May 7, 2015
Operator:	Doug	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1	1, 2.5 Feet	Grass/Topsoil 3" Brown, 10YR 5/3, Fill, ash, brick fragments, damp, soft	1.2 PPM
2			
3			
4			
5	2, 3.0 Feet	Yellowish Red, 5YR 4/6, Till, subrounded, moist, very stiff	0.4 PPM
6		Yellowish Red 5YR 4/6, F-C Sand, some silt, trace clay, wet	
7		Yellowish Red 5YR 4/6, Till, subrounded, moist, very stiff	
8			
9		Bottom of Boring = Refusal 8.0 feet BGS	
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

FISHERASSOCIATES

BORING LOG

Project Number:	143016	Test Boring Number:	SB006
Project Name:	Empire State Development	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	May 7, 2015
Operator:	Doug	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1 2 3 4	1, 2.0 Feet	Iron Metal Debris Dark Brown, 10YR 3/3, Fill, brick fragments, metal debris, dry, loose	4.6 PPM
5 6 7 8	2, 3.0 Feet	Dark Brown, 10YR 3/3, Fill, metal debris, moist/wet spots, soft	0.7 PPM
9 10 11 12 13 14 15 16 17 18 19 20	3, 0.0 Feet	Bottom of Boring = Refusal 8.2 feet BGS	

BORING LOG

Project Number:	143016	Test Boring Number:	SB007
Project Name:	Empire State Development	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	May 7, 2015
Operator:	Doug	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1 2 3 4	1, 4.0 Feet	Grass, Topsoil 3" Yellowish Red, 5YR 4/6, Fill, moist, stiff	0.0 PPM
5 6 7 8	2, 3.0 Feet	Yellowish Red 5 YR 4/6, Till, very stiff, F-C silt and clay, Light Brown 10YR 8/3, Silt lenses, moist	0.0 PPM
9 10	3, 1.5 Feet	Yellowish Red 5 YR 4/6, Till, very stiff, F-C Silt and layered clays, moist	0.0 PPM
11 12 13 14 15 16 17 18 19 20		Bottom of Boring = Refusal 10 feet BGS	

BORING LOG

Project Number:	143016	Test Boring Number:	SB008
Project Name:	Empire State Development	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	May 7, 2015
Operator:	Doug	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1 2 3 4	1, 4.0 Feet	Concrete Gravel 6" Yellowish Red, 5YR 4/6, Fill, sand & clay, med. Stiff, dry/moist	0.5 PPM
5 6 7 8	2, 3.5 Feet	Yellowish Red, 5YR 4/6, Fill, sand & clay, very hard, dry/moist Light Brown 10YR 8/3, F-C Silt, some F-C sand, trace cobbles, moist, loose	0.1 PPM
9 10 11 12 13 14 15 16 17 18 19 20		Bottom of Boring = Refusal 7.8 feet BGS	

FISHERASSOCIATES

BORING LOG

Project Number:	143016	Test Boring Number:	SB009
Project Name:	Empire State Development	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	May 7, 2015
Operator:	Doug	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1 2 3 4	1, 1.5 Feet	Concrete Gravel 6" Dark Gray N3, Fill, soft, saturated, petroleum like odor	572 PPM
5 6 7	2, 2.0 Feet	Dark Gray N3, Fill, soft, saturated, petroleum like odor, wood debris at bottom	131 PPM
8 9 10 11 12 13 14 15 16 17 18 19 20		Bottom of Boring = Refusal 7.2 feet BGS	

BORING LOG

Project Number:	143016	Test Boring Number:	SB010
Project Name:	Empire State Development	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	May 7, 2015
Operator:	Doug	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1	1, 1.5 Feet	Topsoil 3" Dark Brown 10YR 3/3, Fill, soft/loose, dry to wet, petroleum like odor	228 PPM
2			
3			
4			
5	2, 2.0 Feet	Dark Gray N3, Fill, soft, saturated, petroleum like odor, wood debris at bottom	782 PPM
6		Black, Fill, soft/loose, saturated, strong petroluem like odor	
7		Yellowish Red, 5YR 4/6, Till, very dard, slight petroleum like odor	
8			
9		Bottom of Boring = Refusal 8.2 feet BGS	
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FISHERASSOCIATES

BORING LOG

Project Number:	143016	Test Boring Number:	SB011
Project Name:	Empire State Development	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	May 8, 2015
Operator:	Doug	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1 2 3 4	1, 3.0 Feet	Grass Topsoil 3" Yellowish Red 5YR 4/6, Fill, loose, dry/damp	0.1 PPM
5 6 7 8	2, 3.0 Feet	Brown 10YR 5/3, Fill, gravel pack around former tank area, soft, dry/moist	0.3 PPM
9 10 11 12 13 14 15 16 17 18 19 20		Bottom of Boring = Refusal 8.1 feet BGS	

FISHERASSOCIATES

BORING LOG

Project Number:	143016	Test Boring Number:	SB012
Project Name:	Empire State Development	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	May 8, 2015
Operator:	Doug	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1 2 3 4	1, 3.0 Feet	Grass Topsoil 3" Gray N5, Fill, some gravel, concrete, loose, dry	1.1 PPM
5 6 7 8 9	2, 4.0 Feet 3, 0.7 Feet	Yellowish Red 5YR 4/6, Till, med stiff, moist, sit and clay w siltey sand lenses	0.3 PPM
10 11 12 13 14 15 16 17 18 19 20		Bottom of Boring = Refusal 9 feet BGS	

BORING LOG

Project Number:	143016	Test Boring Number:	SB013
Project Name:	Empire State Development	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	May 8, 2015
Operator:	Doug	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1	1, 3.0 Feet	Grass Topsoil 3" Gray N5, Fill, some gravel, concrete, loose, dry	3.2 PPM
2 3 4		Dark Brown, 10YR 3/3, Fill, loose, moist	
5 6 7 8	2, 3.5 Feet	Yellowish Red 5YR 4/6, Till, very stiff, moist/wet, w/ some silty sand lenses	1.3 PPM
9 10	3, 1.0 Feet	Yellowish Red 5YR 4/6, Till, mod. soft, moist/damp, w/ some f-c sand and gravel, some silt, trace of clay	1.1 PPM
11 12 13 14 15 16 17 18 19 20		Bottom of Boring = Refusal 10.2 feet BGS	

FISHERASSOCIATES

BORING LOG

Project Number:	143016	Test Boring Number:	SB014
Project Name:	Empire State Development	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	May 8, 2015
Operator:	Doug	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1 2 3 4	1, 3.8 Feet	Grass Topsoil 3" Dark Gray N3, Fill, brick, ash, mod soft, moist/wet	0.9 PPM
5 6	2, 2.0 Feet	Yellowish Red 5YR 4/6, Till, very stiff, moist	2.6 PPM
7 8 9 10 11 12 13 14 15 16 17 18 19 20		Bottom of Boring = Refusal 6.7 feet BGS	

FISHERASSOCIATES

BORING LOG

Project Number:	143016	Test Boring Number:	SB015
Project Name:	Empire State Development	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	May 8, 2015
Operator:	Doug	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1 2 3 4	1, 2.5 Feet	Grass Topsoil 3" Dark Gray N3, Fill, concrete, ash, mod soft, moist/wet, Yellowish Red 5YR 4/6, silt, some clay, moist/dry, loose	2.0 PPM
5 6 7 8	2, 2.5 Feet	Brown 10YR 5/3, Till, moist wet, soft	4.3 PPM
9	3, 1.0 Feet	Brown 10YR 5/3, Till, moist wet, soft	1.2 PPM
10 11 12 13 14 15 16 17 18 19 20		Bottom of Boring = Refusal 9.2 feet BGS	

BORING LOG

Project Number:	143016	Test Boring Number:	SB016
Project Name:	Empire State Development	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	May 8, 2015
Operator:	Doug	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1	1, 3.5 Feet	Grass Topsoil 3" Reddish Brown 10R 3/6, Fill, foundary sand, loose, moist/wet	5.7 PPM
2			
3			
4			
5	2, 3.5 Feet		6.4 PPM
6		Yellowish Red 5YR 4/6, Till, very stiff, moist/wet	
7			
8			
9	3, 0.7 Feet	Brown 10YR 5/3, Till (f-c sand, some f-c gravel, trace clay) mod stiff, wet	3.2 PPM
10		Bottom of Boring = Refusal 9.0 feet BGS	
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BORING LOG

Project Number:	143016	Test Boring Number:	SB017
Project Name:	Empire State Development	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	May 8, 2015
Operator:	Doug	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1 2 3 4	1, 3.5 Feet	Grass Topsoil 3" Reddish Brown 10R 3/6, Fill, foundary sand, loose, moist/wet	5.8 PPM
5 6 7 8	2, 4.0 Feet	Yellowish Red 5YR 4/6, Till, very stiff, moist/wet	2.2 PPM
9 10 11 12 13 14 15 16 17 18 19 20		Bottom of Boring = Refusal 7.9 feet BGS	

FISHERASSOCIATES

BORING LOG

Project Number:	143016	Test Boring Number:	SB018
Project Name:	Empire State Development	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	May 8, 2015
Operator:	Doug	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1 2 3 4	1, 3.5 Feet	Grass Topsoil 3" Dark Gray N3, Fill, loose, dry/moist	3.3 PPM
5 6 7 8	2, 4.0 Feet	Yellowish Red 5YR 4/6, Till, very hard, moist/wet spots	3.0 PPM
9	3, 0.6 Feet	Brown 10YR 5/3, Till, moist/de, med soft	2.4 PPM
10 11 12 13 14 15 16 17 18 19 20		Bottom of Boring = Refusal 9.5 feet BGS	

FISHERASSOCIATES

BORING LOG

Project Number:	143016	Test Boring Number:	SB019
Project Name:	Empire State Development	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	June 18, 2015
Operator:	Doug	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1 2 3 4	1, 3.0 Feet	Grass Topsoil 3" Yellowish Red 5YR 4/6, Fill, Loose, moist	3.2 PPM
5 6	2, 2.5 Feet	Dark Gray N3, Fill, loose, moist	10.5 PPM
7 8 9 10 11 12 13 14 15 16 17 18 19 20		6.5' Bottom of Boring Refusal	

FISHERASSOCIATES

BORING LOG

Project Number:	154034	Test Boring Number:	ASB-1
Project Name:	Buffalo Urban Development Corp.	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	June 18, 2015
Operator:	Doug	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1	1, 4.0 Feet	Concrete Floor 4" Yellowish Red 5YR 4/6, Fill, Medium stiff, moist	1.6 PPM
2			
3			
4	2, 3 inches	4.7' Bottom of Boring Refusal	2.4 PPM
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FISHERASSOCIATES

BORING LOG

Project Number:	154034	Test Boring Number:	ASB-2
Project Name:	Buffalo Urban Development Corp.	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	June 18, 2015
Operator:	Doug	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1	1, 4.0 Feet	Concrete Floor 8" Yellowish Red 5YR 4/6, Fill, f-c silt and sand, some f-c gravel, interbedded w/cobbles,Medium stiff, moist	1.7 PPM
2			
3			
4	2, 2 inches	4.6' Bottom of Boring Refusal	2.2 PPM
5			
6			
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19			
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FISHERASSOCIATES

BORING LOG

Project Number:	154034	Test Boring Number:	ASB-3
Project Name:	Buffalo Urban Development Corp.	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	June 18, 2015
Operator:	Doug	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
	1, 0.0 Feet	Concrete Floor 12+" (two locations) No Boring	
1			
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4			
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19			
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FISHERASSOCIATES

BORING LOG

Project Number:	154034	Test Boring Number:	ASB-4
Project Name:	Buffalo Urban Development Corp.	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	June 18, 2015
Operator:	Doug	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1	1, 4.0 Feet	Brick Floor 3" Yellowish Red 5YR 4/6, Fill, ,Medium stiff, moist	2.7 PPM
2			
3			
4	2, 1.5 Feet		3.6 PPM
5			
6			
7		6.4' Bottom of Boring Refusal	
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18			
19			
20			

BORING LOG

Project Number:	154034	Test Boring Number:	ASB-5
Project Name:	Buffalo Urban Development Corp.	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	June 18, 2015
Operator:	Doug	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1	1,3.0 Feet	Brick Floor 3" Yellowish Red 5YR 4/6, Fill, ,Soft, moist	98 PPM
2			
3			
4	2,3.5 Feet		282 PPM
5			
6			
7			
8		Black (Dark Gray N3), Fill	
9	3,2.0 Feet	Brown 10 YR 5/3, Fill, Med Stiff, moist	51 PPM
10			
11		10.2' Bottom of Boring Refusal	
12			
13			
14			
15			
16			
17			
18			
19			
20			

FISHERASSOCIATES

BORING LOG

Project Number:	154034	Test Boring Number:	ASB-6
Project Name:	Buffalo Urban Development Corp.	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	June 18, 2015
Operator:	Doug	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1	1,3.0 Feet	Concrete 6" Yellowish Red 5YR 4/6, Fill, ,Soft, moist	3.4 PPM
2			
3			
4		3.8' Bottom of Boring Refusal	
5			
6			
7			
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19			
20			

FISHERASSOCIATES

BORING LOG

Project Number:	154034	Test Boring Number:	ASB-7
Project Name:	Buffalo Urban Development Corp.	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	June 18, 2015
Operator:	Doug	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1	1, 2.0 Feet	Concrete 5" Yellowish Red 5YR 4/6, Fill, ,Soft, moist	2.1 PPM
2			
3			
4	2, 2.0 Feet		2.1 PPM
5			
6			
7			
8		7.2' Bottom of Boring Refusal	
9			
10			
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FISHERASSOCIATES

BORING LOG

Project Number:	154034	Test Boring Number:	ASB-8
Project Name:	Buffalo Urban Development Corp.	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	June 18, 2015
Operator:	Doug	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1 2	1, 2.5 Feet	Wood/Concrete 12" Brown 10YR 5/3, Fill, ,loose, dry/moist	5.1 PPM
3		Yellowish Red 5 YR 4/6, Fill, loose, moist	
		Reddish Brown 10 YR 3/6, Fill, loose, moist	
4 5 6 7	2, 3.0 Feet	Yellowish Red 5 YR 4/6, Fill, med stiff, moist	2.2 PPM
8 9 10 11 12 13 14 15 16 17 18 19 20		7.10' Bottom of Boring Refusal	

FISHERASSOCIATES

BORING LOG

Project Number:	154034	Test Boring Number:	ASB-9
Project Name:	Buffalo Urban Development Corp.	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	June 18, 2015
Operator:	Doug	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1 2 3	1, 3 Feet	Wood/Concrete 10" Brownish Yellow to Yellowish Red 5YR 4/6, soft, moist	4.5 PPM
4 5 6 7	2, 4 Feet	Yellowish Red 5 YR 4/6, Fill, med stiff, moist	1.9 PPM
8 9 10 11 12 13 14 15 16 17 18 19 20		7.10' Bottom of Boring Refusal	

FISHERASSOCIATES

BORING LOG

Project Number:	154034	Test Boring Number:	ASB-10
Project Name:	Buffalo Urban Development Corp.	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	June 18, 2015
Operator:	Doug	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1	1, 3 Feet	Wood/Concrete 8" Brown 10YR 5/3, loose, dry	1.9 PPM
2			
3			
4		3.5' Bottom of Boring Refusal	
5			
6			
7			
8			
9			
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18			
19			
20			

BORING LOG

Project Number:	154034	Test Boring Number:	BSB-1
Project Name:	Buffalo Urban Development Corp.	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	June 19, 2015
Operator:	Nathan	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1	1, 4 Feet	Concrete 4" Yellowish Red 5YR 4/6, Fill, med stiff, moist	4.5 PPM
2			
3		Yellowish Red 5YR 4/6, f-c Sand, loose, dry/moist	
4	2, 2.5 Feet	Yellowish Red 5YR 4/6, Till, med stiff, moist	1.5 PPM
5			
6			
7			
8		7.2' Bottom of Boring Refusal	
9			
10			
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12			
13			
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15			
16			
17			
18			
19			
20			

FISHERASSOCIATES

BORING LOG

Project Number:	154034	Test Boring Number:	CSB-1
Project Name:	Buffalo Urban Development Corp.	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	June 19, 2015
Operator:	Nathan	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1	1, 4 Feet	Wood/Concrete 8" Brown 10YR 5/3, Fill, brick, cobbles, loose, moist	0.7 PPM
2			
3			
4	2, 4 Feet	Yellowish Red 5YR 4/6, Till, med stiff, moist	0.6 PPM
5			
6			
7		Dark Gray N3, Till, med stiff, moist	
8			
9	3, 2.5 Feet	Yellowish Red 5YR 4/6, Till, stiff, moist	0.5 PPM
10			
		Light Gray N7, Top of Bedrock	
11		10.3' Bottom of Boring Refusal	
12			
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19			
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BORING LOG

Project Number:	154034	Test Boring Number:	CSB-2
Project Name:	Buffalo Urban Development Corp.	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	June 19, 2015
Operator:	Nathan	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1 2 3	1, 1.5 Feet	Wood/Concrete 8" Yellowish Red 5YR 4/6, Fill, loose, moist	2.9 PPM
4 5 6 7 8	2, 4 Feet	Yellowish Red 5YR 4/6, Till, med stiff, moist	0.5 PPM
9 10 11	3, 2.5 Feet	Yellowish Red 5YR 4/6, Till, stiff, moist/damp	0.5 PPM
12 13 14 15 16 17 18 19 20		11.1' Bottom of Boring Refusal	

FISHERASSOCIATES

BORING LOG

Project Number:	154034	Test Boring Number:	CSB-3
Project Name:	Buffalo Urban Development Corp.	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	June 19, 2015
Operator:	Nathan	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1	1, 2.5 Feet	Wood/Concrete 8" Dark Gray N3, Fill, loose, dry	7.5 PPM
2 3		Light Gray, Gravel/rock Fill, loose, dry	
4 5 6 7 8	2, 3 Feet	Yellowish Red 5YR 4/6, Fill, med stiff, moist	0.7 PPM
9 10 11	3, 4 Feet	Yellowish Red 5YR 4/6, Till, stiff, moist	0.5 PPM
12 13 14 15 16 17 18 19 20		11.8' Bottom of Boring Refusal	

FISHERASSOCIATES

BORING LOG

Project Number:	154034	Test Boring Number:	DSB-1
Project Name:	Buffalo Urban Development Corp.	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	June 19, 2015
Operator:	Nathan	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1	1, 3 Feet	Concrete 6" Dark Gray N3, Fill, loose, dry	1.9 PPM
2		Yellowish Red 5YR 4/6, Till, med stiff, moist	
3			
4	2, 3 inches		2.1 PPM
5		4.5' Bottom of Boring Refusal	
6			
7			
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FISHERASSOCIATES

BORING LOG

Project Number:	154034	Test Boring Number:	DSB-2
Project Name:	Buffalo Urban Development Corp.	Surface Elevation:	NA
Project Location:	631,683,741,777 Northland Avenue	Location:	NA
Contractor:	Nature's Way Environmental	Date:	June 19, 2015
Operator:	Nathan	Weather:	Sunny 80 Degrees F
Equipment:	Simco - Earthprobe 200	Fisher Associates Rep.:	J. Moore

Depth (Feet)	Sample Num. Recovery	Soil Description	PID Reading (ppm)
1 2 3	1, 3 Feet	Concrete 6" Dark Brown 10YR 3/3, Fill, loose, dry	6.0 PPM
4 5	2, 3 Feet	Dark Brown 10YR 3/3, Fill, sand, loose, moist	2.1 PPM
6 7 8 9	3, 0.6 Feet	Yellowish Red 5YR 4/6, Till, med stiff, moist	1.6 PPM
10 11 12 13 14 15 16 17 18 19 20		9.5' Bottom of Boring Refusal	

NATURE'S WAY
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www.natureswayenvironmental.com

HOLE NUMBER: MW 1

DATE: 5/22/15 ELEVATION:

PROJECT: Subsurface Investigation
Northland Avenue, Buffalo, NY

PREPARED FOR: Fisher Associates

BORING LOCATION:

SN	0/6	6/12	12/18	18/24	N	LITH	DESCRIPTION AND CLASSIFICATION	REC	MONITORING WELL	REMARKS	COMMENTS
1	8				33		Moist, dark gray, gravelly (SILTY-SAND) fill with 20 to 40% gravel, very fine to fine size sand, dense in place	1.2'			Sandy fill with some gravel to 5.0 feet over coarse silty lake sediment to 6.0 feet over clayey lake sediment to 8.0 feet over loamy glacial till to 9.6 feet over onondaga limestone bedrock to end of coring
		12						1.3'		4" PVC Riser Pipe Grouted in Place	
			21								
				19	48						
2	39										
		21						1.7'			
			27								
				13							
3	3										
		11									
			8		19		5.0				
				3			Extremely moist to wet, brown (SANDY-SILT) with some very fine size sand, compact, weakly thinly bedded	1.5'		Cement / Bentonite Grout	
4	3						6.0				
		4									
			7		11		Moist, brown (CLAYEY-SILT) with some clay, stiff, thinly laminated with very thin coarse silt lenses				
				11			8.0	1.2'			
5	6										
		9					Moist, brownish gray (SAND-SILT-CLAY) with 5 to 15% gravel, little clay and very fine size sand, compact, massive soil structure				
			14		23		9.6		9.6		
				50/1"						NX Size Open Rock Hole	Note: Lost water returns below 11.1', lost approximately 1,000 gallons
		RUN					Onondaga Limestone bedrock, gray, very hard, very thin to thinly bedded, ½" to 4" thick, with layers of dark gray chert, lost water return at 11.1' BGS, small void between 11.5' and 11.7', occasional vertical fractures noted between 12.1' and 12.3'				▼ Water Level at 11.5' BGS at Completion of Coring
			# 1								
		RUN									
			# 2								
							16.0		16.0		
							Coring Completed at 16.0' BGS				

CORE DATA

Run #	Interval (ft)	Length (ft)	Rec (ft)	Rec %	RQD %
1	9.6 to 11.6	2.0	1.3	65	0
2	11.6 to 16.0	4.4	4.1	93	15

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NATURE'S WAY
ENVIRONMENTAL CONSULTANTS & CONTRACTORS, INC
3553 Crittenden Road
Alden, NY 14004
(716) 937- 6527
www.natureswayenvironmental.com

HOLE NUMBER: MW 2

DATE: 5/23/15 ELEVATION:

PROJECT: Subsurface Investigation
Northland Avenue, Buffalo, NY

PREPARED FOR: Fisher Associates

BORING LOCATION:

SN	0/6	6/12	12/18	18/24	N	LITH	DESCRIPTION AND CLASSIFICATION	REC	MONITORING WELL	REMARKS	COMMENTS
1	2						Extremely moist, black (SILTY-SAND) fill with very fine size sand, little to some silt, loose	1.8'			Sandy fill to 1.5 feet over silty soil fill with trace gravel to 4.5 feet over clayey lake sediment to 6.0 feet over Onondaga Limestone bedrock to end of coring
		2			4		1.5				
			2				Extremely moist, brown (CLAYEY-SILT) fill with 5 to 10% gravel with occasional red brick fragments, little clay, stiff	0.2'		4" PVC Riser Pipe Grouted in Place	
				5							
2	10										
		6			11						
			5								
				5							
3	3							1.7'		Cement / Bentonite Grout	
		7					4.5				
			12		19		Moist, faintly mottled, brown (CLAYEY-SILT) with some clay, very stiff, thinly laminated with very thin coarse silt lenses				
				16			6.0		6.0		
										NX Size Open Rock Hole	▼ Water Level at 6.8' BGS @ 9AM on 5/24/15
		RUN					Onondaga Limestone bedrock, very hard, very thin to thinly bedded, 1" to 4" thick, with chert layers 1" to 3" thick, noticed horizontal weathered partings at 10.5', lost 50 gallons of water at 10.5', lost 60 gallons of water from 12.5' to 17.5'				
			# 1								
		RUN									
			# 2								
		RUN									
			# 3				17.5		17.5		
							Coring Completed at 17.5' BGS				

CORE DATA

Run #	Interval (ft)	Length (ft)	Rec (ft)	Rec %	RQD %
1	6.0 to 7.5	1.5	1.5	100	73
2	7.5 to 12.5	5.0	4.7	94	68
3	12.5 to 17.5	5.0	5.0	100	77

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NATURE'S WAY
ENVIRONMENTAL CONSULTANTS & CONTRACTORS, INC
3553 Crittenden Road
Alden, NY 14004
(716) 937- 6527
www.natureswayenvironmental.com

HOLE NUMBER: MW 3

DATE: 5/24/15 ELEVATION:

PROJECT: Subsurface Investigation
Northland Avenue, Buffalo, NY

PREPARED FOR: Fisher Associates

BORING LOCATION:

SN	0/6	6/12	12/18	18/24	N	LITH	DESCRIPTION AND CLASSIFICATION	REC	MONITORING WELL	REMARKS	COMMENTS
1	6				41		Moist, brown, very gravelly (SILTY-SAND) fill with 40 to 60% gravel and slag, dense in place	1.4'			Sand and gravel fill to 3.0 feet over clayey lake sediment to 8.6 feet over fractured limestone rock to 9.1 feet over Onondaga Limestone bedrock to end of coring
		14						0.8'		4" PVC Riser Pipe Grouted in Place	
			27								▼ Water Level at 2.1' BGS at Completion of Coring
				14							Note: Lost approximately 30 gallons of water while coring
2	6										
		7			15						
			8								
				4							
3	2							1.3'			
		5			10						
			5								
				9							
4	8							1.5'		Cement / Bentonite Grout	
		15			30						
			15								
				19							
5	10							0.3'			
		50/5"			>50		Fractured Limestone rock 8.6				
							Onondaga Limestone bedrock, gray, very hard, thinly bedded, 1" to 4" thick, with dark gray chert layers 1" to 2" thick, encountered vertical fractures from 10.2' to 10.4' 9.1		9.1	NX Size Open Rock Hole	
		RUN									
			# 1								
		RUN									
			# 2								
		RUN	#3				19.0 See Next Sheet				

CORE DATA

Run #	Interval (ft)	Length (ft)	Rec (ft)	Rec %	RQD %
1	9.1 to 14.1	5.0	5.0	100	28
2	14.1 to 19.1	5.0	5.0	100	24
3	19.1 to 24.1	5.0	5.0	100	75

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NATURE'S WAY
ENVIRONMENTAL CONSULTANTS & CONTRACTORS, INC
3553 Crittenden Road
Alden, NY 14004
(716) 937- 6527
www.natureswayenvironmental.com

HOLE NUMBER: MW 3

DATE: 5/24/15 ELEVATION:

PROJECT: Subsurface Investigation
Northland Avenue, Buffalo, NY

PREPARED FOR: Fisher Associates

BORING LOCATION:

SN	0/6	6/12	12/18	18/24	N	LITH	DESCRIPTION AND CLASSIFICATION	REC	MONITORING WELL	REMARKS	COMMENTS
		RUN					Onondaga Limestone bedrock, gray, very hard, thinly bedded, 2" to 6" thick, with thin chert layers			NX Size Open Rock Hole	
			# 3				24.1		24.1		
							Coring Completed at 24.1' BGS				

25
30
35
40

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APPENDIX C

ANALYITICAL SUMMARY TABLES

Table 1
Summary of Volatile Organic Compounds Within Soil Boring Samples
Northand Supplemental Project, Buffalo

Sample I.D./ Location	Compounds Detected		NYSDEC Part 375-6.4 Restricted Commercial Use Soil Cleanup Objectives (ppm)	NYSDEC Part 375-6.4 Restricted Industrial Use Soil Cleanup Objectives (ppm)
	Compounds	Concentration (ppm)		
SB006 (0-4')	NONE DETECTED	NA	NA	NA
SB009 (0-4')	1,2,4 - Trimethylbenzene	2.27	190	380
	1,3,5 - Trimethylbenzene	1.35	190	380
	m,p - Xylene	0.073	500	1000
	Methylcyclohexane	0.143	NA	NA
	Naphthalene	0.239	NA	NA
	p-Isopropyltoluene	0.167	NA	NA
	sec - Butylbenzene	0.139	390	1000
SB010 (4-8')	Acetone	0.12	500	1000
	1,2,4 - Trimethylbenzene	0.025	190	380
	Isopropylbenzene	0.147	NA	NA
	m,p - Xylene	0.026	500	1000
	Methylcyclohexane	0.036	NA	NA
	n-Butylbenzene	0.091	NA	NA
	n-Propylbenzene	0.1	500	1000
	sec - Butylbenzene	0.163	390	1000
	Tetrachloroethene	0.016	150	300
SB015 (4-9')	NONE DETECTED	NA	NA	NA
SB016 (4-8')	NONE DETECTED	NA	NA	NA
SB018 (4-8')	NONE DETECTED	NA	NA	NA
SB019 (0-4')	1,2,4 - Trimethylbenzene	0.014	190	380
	1,3,5 - Trimethylbenzene	0.019	190	380
	Carbon disulfide	0.019	NA	NA
	Methylcyclohexane	0.013	NA	NA
	Naphthalene	0.049	NA	NA
	p-Isopropyltoluene	0.016	NA	NA
	sec - Butylbenzene	0.009	390	1000

NOTES:

Table 2
Summary of Semi-Volatile Compounds Within Soil Boring Samples
Northand Supplemental Project, Buffalo

Sample I.D./ Location	Compounds Detected		NYSDEC Part 375-6.4 Restricted Commercial Use Soil Cleanup Objectives (ppm)	NYSDEC Part 375-6.4 Restricted Industrial Use Soil Cleanup Objectives (ppm)
	Compounds	**Concentration (ppm)**		
SB006 (0-4')	Acenaphthene	0.443	500	1000
	Benzo (a) anthracene	1.27	5.6	11
	Benzo (a) pyrene	1.24	1.0	1.1
	Benzo (b) fluoranthene	1.55	5.6	11
	Benzo (g,h,i) perylene	0.819	500	1000
	Benzo (k) fluoranthane	0.550	56	110
	Chrysene	1.19	56	110
	Fluoranthene	2.24	NA	NA
	Indeno(1,2,3-cd)pyrene	1.10	5.6	11
	Phenanthrene	1.29	500	1000
	Pyrene	1.85	500	1000
SB009 (0-4')	Anthracene	0.357	500	1000
	Benzo (a) anthracene	0.952	5.6	11
	Benzo (a) pyrene	0.909	1.0	1.1
	Benzo (b) fluoranthene	0.604	5.6	11
	Benzo (g,h,i) perylene	0.770	500	1000
	Benzo (k) fluoranthane	1.15	56	110
	Chrysene	1.11	56	110
	Fluoranthene	2.30	500	1000
	Indeno(1,2,3-cd)pyrene	0.94	5.6	11
	Naphthalene	0.42	500	1000
	Phenanthrene	1.72	500	1000
	Pyrene	2.37	500	1000

Table 2
Summary of Semi-Volatile Compounds Within Soil Boring Samples
Northand Supplemental Project, Buffalo

Sample I.D./ Location	Compounds Detected		NYSDEC Part 375-6.4 Restricted Commercial Use Soil Cleanup Objectives (ppm)	NYSDEC Part 375-6.4 Restricted Industrial Use Soil Cleanup Objectives (ppm)
	Compounds	**Concentration (ppm)**		
SB010 (4-8')	Acenaphthene	0.332	500	1000
	Benzo (a) anthracene	0.422	5.6	11
	Benzo (a) pyrene	0.896	1.0	1.1
	Benzo (b) fluoranthene	0.494	5.6	11
	Benzo (g,h,i) perylene	0.506	500	1000
	Benzo (k) fluoranthane	0.985	56	110
	Chrysene	1.42	56	110
	Fluoranthene	1.70	500	1000
	Indeno(1,2,3-cd)pyrene	0.587	5.6	11.0
	Phenanthrene	1.26	500	1000
	Pyrene	1.62	500	1000
SB015 (4-9')	NONE DETECTED	NA	NA	NA
SB016 (4-8')	Benzo (a) anthracene	1.08	5.6	11
	Benzo (a) pyrene	1.9	1.0	1.1
	Benzo (b) fluoranthene	2.11	5.6	11
	Benzo (g,h,i) perylene	1.450	500	1000
	Benzo (k) fluoranthane	1.450	56	110
	Chrysene	1.20	56	110
	Dibenz (a,h) anthracene	0.796	0.56	1.1
	Fluoranthene	0.82	500	1000
	Indeno(1,2,3-cd)pyrene	1.97	5.6	11
	Phenanthrene	0.399	500	1000
	Pyrene	0.73	500	1000

Table 2
Summary of Semi-Volatile Compounds Within Soil Boring Samples
Northand Supplemental Project, Buffalo

Sample I.D./ Location	Compounds Detected		NYSDEC Part 375-6.4 Restricted Commercial Use Soil Cleanup Objectives (ppm)	NYSDEC Part 375-6.4 Restricted Industrial Use Soil Cleanup Objectives (ppm)
	Compounds	**Concentration (ppm)**		
SB018 (4-8')	Acenaphthene	0.506	500	1000
	Anthracene	0.544	500	1000
	Benzo (a) anthracene	2.34	5.6	11
	Benzo (a) pyrene	2.37	1.0	1.1
	Benzo (b) fluoranthene	2.94	5.6	11
	Benzo (g,h,i) perylene	1.780	500	1000
	Benzo (k) fluoranthane	1.480	56	110
	Chrysene	2.31	56	110
	Dibenz (a,h) anthracene	0.691	0.56	1.1
	Fluoranthene	4.05	500	1000
	Indeno(1,2,3-cd)pyrene	2.17	5.6	11
	Phenanthrene	1.440	500	1000
	Pyrene	3.15	500	1000
SB019 (0-4')	Benzo (a) anthracene	3.56	5.6	11
	Benzo (a) pyrene	4.48	1.0	1.1
	Benzo (b) fluoranthene	5.53	5.6	11
	Benzo (g,h,i) perylene	3.85	500	1000
	Benzo (k) fluoranthane	2.84	56	110
	Chrysene	4.47	56	110
	Fluoranthene	7.59	500	1000
	Indeno (1,2,3-cd) pyrene	4.43	NA	NA
	Phenanthrene	6.04	NA	NA
	Pyrene	8.18	NA	NA

NOTES:

Highlighted indicatates exceedence of Restricted Commercial and/or Industrial Use Guidance

Table 3
Summary of RCRA Metals Within Soil Boring Samples
Northland Supplemental Project, Buffalo

Sample I.D.	Compounds Detected		NYSDEC Part 375-6.4 Restricted Commercial Use Soil Cleanup Objectives (ppm)	NYSDEC Part 375-6.4 Restricted Industrialial Use Soil Cleanup Objectives (ppm)
	Compound	Concentration (ppm)		
SB006 (0-4')	Arsenic	40.8	16	16
	Barium	657	400	10000
	Cadmium	10.9	9.3	60
	Chromium	385	1,500	6,800
	Lead	117	1,000	3,900
	Selenium	39.3	1,500	6,800
	Silver	11.50	1,500	6,800
	Mercury	0.0274	2.8	5.7
SB009 (0-4')	Arsenic	27.2	16	16
	Barium	150	400	10000
	Cadmium	4.07	9.3	60
	Chromium	256	1,500	6,800
	Lead	174	1,000	3,900
	Selenium	16.0	1,500	6,800
	Silver	2.88	1,500	6,800
	Mercury	0.149	2.8	5.7
SB010 (4-8')	Arsenic	7.63	16	16
	Barium	127	400	10000
	Cadmium	0.589	9.3	60
	Chromium	31.3	1,500	6,800
	Lead	63.4	1,000	3,900
	Selenium	3.44	1,500	6,800
	Silver	1.40	1,500	6,800
	Mercury	0.049	2.8	5.7
SB015 (4-9')	Arsenic	8.53	16	16
	Barium	70.3	400	10000
	Cadmium	0.687	9.3	60
	Chromium	16.5	1,500	6,800
	Lead	65.3	1,000	3,900
	Selenium	5.03	1,500	6,800
	Silver	ND < 0.638	1,500	6,800
	Mercury	0.0238	2.8	5.7
SB016 (4-8')	Arsenic	3.89	16	16
	Barium	29.0	400	10000
	Cadmium	0.416	9.3	60
	Chromium	25.3	1,500	6,800
	Lead	40.5	1,000	3,900
	Selenium	2.79	1,500	6,800
	Silver	1.43	1,500	6,800
	Mercury	0.0400	2.8	5.7
SB018 (4-8')	Arsenic	12.80	16	16
	Barium	78.8	400	10000
	Cadmium	0.809	9.3	60
	Chromium	17.3	1,500	6,800
	Lead	227.0	1,000	3,900
	Selenium	2.91	1,500	6,800
	Silver	ND < 0.591	1,500	6,800
	Mercury	0.0579	2.8	5.7

Table 3
Summary of RCRA Metals Within Soil Boring Samples
Northland Supplemental Project, Buffalo

Sample I.D.	Compounds Detected		NYSDEC Part 375-6.4 Restricted Commercial Use Soil Cleanup Objectives (ppm)	NYSDEC Part 375-6.4 Restricted Industrialial Use Soil Cleanup Objectives (ppm)
	Compound	Concentration (ppm)		
SB019 (0-4')	Arsenic	29.6	16	16
	Barium	459	400	10000
	Cadmium	5.53	9.3	60
	Chromium	636	1,500	6,800
	Lead	375	1,000	3,900
	Selenium	8.58	1,500	6,800
	Silver	4.73	1,500	6,800
	Mercury	0.139	2.8	5.7

NOTES:

Highlighted indicates exceedence of Restricted Commercial and/or Industrial Use Soil Cleanup Guidance

Table 4
Summary of PCBs/Pesticides Within Soil Boring Samples
Northland Supplemental Project, Buffalo

Sample I.D./ Location	Compounds Detected		NYSDEC Part 375-6.4 Restricted Commercial Use Soil Cleanup Objectives (ppm)	NYSDEC Part 375-6.4 Restricted Commercial Use Soil Cleanup Objectives (ppm)
	Compound	Concentration (ppm)		
SB006 (0-4')	PCB-1254	0.551	1	25
	4,4-DDD	0.082	92	180
	4,4-DDE	0.031	62	120
	4,4-DDT	0.104	47	94
	beta-BHC	0.006 (P)	3	14
	Dieldrin	0.033 (P)	1.4	2.8
	Endosulfan II	0.005 (P)	NA	NA
	Endosulfan Sulfate	0.011 (P)	200	920
	Endrin	0.007 (P)	89	410
	Endrin Aldehyde	0.012 (P)	NA	NA
	Endrin Ketone	0.004 (P)	NA	NA
	Heptachlor Epoxide	0.047 (P)	NA	NA
	Methoxychlor	0.017 (P)	NA	NA
	trans-Chlordane	0.012 (P)	NA	NA
SB009 (0-4')	PCB-1254	13.6	1	25
	4,4-DDD	1.47	92	180
	4,4-DDE	0.634	62	120
	4,4-DDT	1.77	47	94
	Dieldrin	0.72 (P)	1.4	2.8
	Endosulfan Sulfate	0.199 (P)	200	920
	Endrin	0.215	89	410
	Endrin Aldehyde	0.247 (P)	NA	NA
	Endrin Ketone	0.250 (P)	NA	NA
	Heptachlor Epoxide	0.906	NA	NA
	Methoxychlor	0.279	NA	NA
	trans-Chlordane	0.398 (P)	NA	NA
SB010 (4-8')	PCB-1254	1.78	1	25
	4,4-DDD	0.212	92	180
	4,4-DDE	0.119	62	120
	4,4-DDT	0.280	47	94
	Dieldrin	0.090 (P)	1.4	2.8
	Endosulfan II	0.018 (P)	200	920
	Endosulfan Sulfate	0.024 (P)	200	920
	Endrin	0.023 (P)	89	410
	Endrin Aldehyde	0.025 (P)	NA	NA
	Heptachlor Epoxide	0.169	NA	NA
	Methoxychlor	0.049	NA	NA
	trans-Chlordane	0.048 (P)	NA	NA

Table 4
Summary of PCBs/Pesticides Within Soil Boring Samples
Northland Supplemental Project, Buffalo

Sample I.D./ Location	Compounds Detected		NYSDEC Part 375-6.4 Restricted Commercial Use Soil Cleanup Objectives (ppm)	NYSDEC Part 375-6.4 Restricted Commercial Use Soil Cleanup Objectives (ppm)
	Compound	Concentration (ppm)		
SB015 (4-9')	NONE DETECTED	NA	NA	NA
SB016 (4-8')	beta-BHC	0.004	3	14
	Methoxychlor	0.004 (P)	NA	NA
SB018 (4-8')	4,4-DDD	0.005	92	180
	4,4-DDT	0.004 (P)	47	94
	Endrin Aldehyde	0.004	NA	NA
	Endrin Ketone	0.008 (P)	NA	NA
	Methoxychlor	0.011 (P)	NA	NA
SB019 (0-4')	PCB-1254	46.1	1	25
	4,4-DDD	1.79 (P)	92	180
	4,4-DDE	2.02 (P)	62	120
	4,4-DDT	5.53	47	94
	Dieldrin	0.497 (P)	1.4	2.8
	Endosulfan I	0.597 (P)	200	920
	Endosulfan II	0.486	200	920
	Endrin	3.63	89	410
	Heptachlor Epoxide	0.481	NA	NA
	Methoxychlor	1.16	NA	NA
	trans-Chlordane	1.60	NA	NA

Notes:
(P) >40% difference between primary and secondary analytical columns
Highlighted indicates exceedence of Restricted Commercial and/or Industrial Use Soil Cleanup Guidance

Table 1
Summary of Volatile Organic Compounds Within Soil Boring Internal Samples
Northand Supplemental Project, Buffalo

Sample I.D./ Location	Compounds Detected		NYSDEC Part 375-6.4 Restricted Commercial Use Soil Cleanup Objectives (ppm)	NYSDEC Part 375-6.4 Restricted Industrial Use Soil Cleanup Objectives (ppm)
	Compounds	Concentration (ppm)		
ASB5 (4-8')	1,2,4 - Trimethylbenzene	3.7	190	380
	1,3,5 - Trimethylbenzene	1.27	190	380
	Cyclohexane	0.99	NA	NA
	Isopropylbenzene	0.532	NA	NA
	m,p - Xylene	0.494	500	1000
	Methycyclohexane	4.3	NA	NA
	Napthalene	5.02	NA	NA
	n-Butylbenzene	2.03	NA	NA
	n - Propylbenzene	0.882	500	1000
	o-Xylene	0.404	NA	NA
	p-Isopropyltoluene	1.04	NA	NA
	sec - Butylbenzene	0.469	390	1000
ASB5 (8-10.2')	Acetone	0.136	500	1000
	Isopropylbenzene	0.028	NA	NA
	Methylcyclohexane	0.1	NA	NA
	n- Butylbenzene	0.088	NA	NA
	sec - Butylbenzene	0.034	500	1000
ASB8 (0-4')	NONE DETECTED	NA	NA	NA
CSB3 (0-4')	Methylcyclohexane	0.008	NA	NA
	Methylene chloride	0.034	500	1000
	Trichloroethene	0.011	200	400
DSB2 (0-4')	NONE DETECTED	NA	NA	NA

NOTES:

Table 2
Summary of Semi-Volatile Compounds Within Soil Boring Internal Samples
Northand Supplemental Project, Buffalo

Sample I.D./ Location	Compounds Detected		NYSDEC Part 375-6.4 Restricted Commercial Use Soil Cleanup Objectives (ppm)	NYSDEC Part 375-6.4 Restricted Industrial Use Soil Cleanup Objectives (ppm)
	Compounds	Concentration (ppm)		
ASB5 (4-8')	2-Methylnapthalene	37.7	NA	NA
	Acenaphthene	4.92	500	1000
	Anthracene	4.96	500	1000
	Benzo (a) anthracene	5.18	5.6	11
	Benzo (a) pyrene	9.21	1.0	1.1
	Benzo (b) fluoranthene	8.41	5.6	11.0
	Benzo (g,h,i) perylene	5.70	500	1000
	Benzo (k) fluoranthene	4.33	56	110
	Chrysene	6.37	56	110
	Dibenzofuran	3.40	NA	NA
	Fluoranthene	7.40	500	1000
	Fluorene	5.35	500	1000
	Indeno(1,2,3-cd)pyrene	8.74	5.6	11.0
	Naphthalene	4.65	500	1000
	N-Nitrosodiphenylamine	3.62	NA	NA
	Phenanthrene	23.2	500	1000
	Pyrene	10.7	500	1000
ASB5 (8-10.2)	Phenanthrene	0.635	500	1000
ASB8 (0-4')	Bis (2-ethylhexyl) phthalate	0.559	NA	NA
	Fluoranthene	0.778	500	1000
	Phenanthrene	0.596	500	1000
	Pyrene	0.57	500	1000

Table 2
Summary of Semi-Volatile Compounds Within Soil Boring Internal Samples
Northand Supplemental Project, Buffalo

Sample I.D./ Location	Compounds Detected		NYSDEC Part 375-6.4 Restricted Commercial Use Soil Cleanup Objectives (ppm)	NYSDEC Part 375-6.4 Restricted Industrial Use Soil Cleanup Objectives (ppm)
	Compounds	Concentration (ppm)		
CSB3 (0-4')	Benzo (a) anthracene	1.68	5.6	11
	Benzo (a) pyrene	2.3	1.0	1.1
	Benzo (b) fluoranthene	3.34	5.6	11.0
	Benzo (g,h,i) perylene	2.51	500	1000
	Benzo (k) fluoranthene	2.09	56	110
	Chrysene	2.19	56	110
	Dibenz (a,h) anthracene	0.959	0.56	1.1
	Fluoranthene	2.53	500	1000
	Indeno(1,2,3-cd)pyrene	3.52	5.6	11.0
	Phenanthrene	0.87	500	1000
	Pyrene	2.27	500	1000
DSB2 (0-4')	Anthracene	0.711	500	1000
	Benzo (a) anthracene	1.43	5.6	11
	Benzo (a) pyrene	1.27	1.0	1.1
	Benzo (b) fluoranthene	1.56	5.6	11.0
	Benzo (g,h,i) perylene	0.753	500	1000
	Benzo (k) fluoranthene	0.878	56	110
	Carbazole	0.328	NA	NA
	Chrysene	1.44	56	110
	Dibenz (a,h) anthracene	0.387	0.56	1.10
	Fluoranthene	3.23	500	1000
	Fluorene	0.334	500	1000
	Indeno(1,2,3-cd)pyrene	1.23	5.6	11.0
	Phenanthrene	2.87	500	1000
	Pyrene	2.47	500	1000

NOTES:

Highlighted indicatates exceedence of Restricted Commercial and/or Industrial Use Guidance

Table 3
Summary of RCRA Metals Within Soil Boring Internal Samples
Northland Supplemental Project, Buffalo

Sample I.D.	Compounds Detected		NYSDEC Part 375-6.4 Restricted Commercial Use Soil Cleanup Objectives (ppm)	NYSDEC Part 375-6.4 Restricted Industrial Use Soil Cleanup Objectives (ppm)
	Compound	Concentration (ppm)		
ASB5 (4-8')	Arsenic	4.48	16	16
	Barium	24.5	400	10000
	Chromium	5.02	1,500	6,800
	Lead	10.4	1,000	3,900
	Selenium	0.642	1,500	6,800
	Mercury	0.0204	2.8	5.7
ASB5 (8-10.2')	Arsenic	4.72	16	16
	Barium	128	400	10000
	Cadmium	0.449	9.3	60
	Chromium	24.3	1,500	6,800
	Lead	14.9	1,000	3,900
	Silver	1.42	1,500	6,800
	Mercury	0.028	2.8	5.7
ASB8 (0-4')	Arsenic	103	16	16
	Barium	137	400	10000
	Cadmium	16.6	9.3	60
	Chromium	99.8	1,500	6,800
	Lead	9780	1,000	3,900
	Selenium	19.8	1,500	6,800
	Mercury	5.31	2.8	5.7
CSB3 (0-4')	Arsenic	12.1	16	16
	Barium	92.3	400	10000
	Cadmium	0.579	9.3	60
	Chromium	28.2	1,500	6,800
	Lead	75.6	1,000	3,900
	Selenium	2.40	1,500	6,800
	Silver	1.15	1,500	6,800
	Mercury	0.237	2.8	5.7
DSB2 (0-4')	Arsenic	12.7	16	16
	Barium	69.9	400	10000
	Cadmium	1.33	9.3	60
	Chromium	67.5	1,500	6,800
	Lead	193.0	1,000	3,900
	Selenium	3.17	1,500	6,800
	Silver	4.53	1,500	6,800
	Mercury	0.139	2.8	5.7

NOTES:

Highlighted indicates exceedence of Restricted Commercial Use Soil Cleanup Guidance

Table 4
Summary of PCBs/Pesticides Within Soil Boring Internal Samples
Northland Supplemental Project, Buffalo

Sample I.D./ Location	Compounds Detected		NYSDEC Part 375-6.4 Restricted Commercial Use Soil Cleanup Objectives (ppm)	NYSDEC Part 375-6.4 Restricted Industrial Use Soil Cleanup Objectives (ppm)
	Compound	Concentration (ppm)		
ASB5 (4-8')	4,4-DDD	0.009	92	180
	Aldrin	0.014 (P)	0.68	1.4
	cis-Chlordane	0.004 (P)	NA	NA
	Endosulfan I	0.003 (P)	200	920
	Endosulfan Sulfate	0.004 (P)	200	920
	Endrin Ketone	0.009	NA	NA
	Heptachlor Epoxide	0.011	NA	NA
	Methoxychlor	0.01 (P)	NA	NA
	trans-Chlordane	0.01 (P)	NA	NA
ASB5 (8-10.2')	NONE DETECTED	NA	NA	NA
ASB8 (0-4')	PCB-1254	0.126	1	25
	4,4-DDE	0.004 (P)	62	120
	4,4-DDT	0.018 (P)	47	94
	Endosulfan Sulfate	0.004	NA	NA
	Heptachlor Epoxide	0.007	NA	NA
	Methoxychlor	0.009 (P)	NA	NA
CSB3 (0-4')	PCB-1254	0.034	1	25
	alpha-BHC	0.003	3.4	6.8
	beta-BHC	0.007 (P)	3	14
	cis-Chlordane	0.006	NA	NA
	Methoxychlor	0.023 (P)	NA	NA
DSB2 (0-4')	beta-BHC	0.015	3	14
	cis-Chlordane	0.010	NA	NA
	Endosulfan Sulfate	0.012 (P)	200	200
	Methoxychlor	0.02 (P)	NA	NA

Notes:
(P) >40% difference between primary and secondary analytical columns

Table 1
Summary of Volatile Organic Compounds Within Pits/Sumps Liquid Samples
Northand Supplemental Project, Buffalo

Sample I.D./ Location	Compounds Detected	
	Compounds	Concentration (ppm)
AP1-L	NON-DETECTED	ND<9.71
AP2-L	4-Methyl-2-pentanone	0.075
	Acetone	0.648
	m,p-Xylene	0.010
AP3-L	NON-DETECTED	ND<9.80
AP4-L	NON-DETECTED	ND<0.02
AP5-L	4-Methyl-2-pentanone	0.012
AP6-L	NON-DETECTED	ND<0.02
AP7-L	NON-DETECTED	ND<9.90
AP8-L	Acetone	0.065
AP9-L	NON-DETECTED	ND<0.02
AP10-L	1,4-Dichlorobenzene	0.004
AP11-L	4-Methyl-2-pentanone	2.58
	Acetone	11.7
	Ethylbenzene	0.719
	m,p-Xylene	3.18
	o-Xylene	1.11
AP13-L	Acetone	0.016
AP14-L	NON-DETECTED	ND<0.02
AP15-L	Acetone	7.49
AP17-L	NON-DETECTED	ND<0.091
AP18-L	NON-DETECTED	ND<18.8
AP19-L	NON-DETECTED	ND<9.52
ASB-L	NON-DETECTED	ND<9.71
AS2-L	NON-DETECTED	ND<0.02
AWLTF	NON-DETECTED	ND<9.71
CP1-L	NON-DETECTED	ND<0.01
CP2-L	NON-DETECTED	ND<0.01
CS1-L	NON-DETECTED	ND<0.02
DP1-L	Tetrachloroethene	0.0043
DP2-L	Acetone	0.168

NOTES:
Non-detected (ND)

Table 2
Summary of Semi-Volatile Compounds Within Pits/Sumps Liquid Samples
Northand Supplemental Project, Buffalo

Sample I.D./ Location	Compounds Detected	
	Compounds	**Concentration (ppm)**
AP4-L	NON-DETECTED	ND<0.2
AP5-L	NON-DETECTED	ND<0.1
AP6-L	Benzo (a) anthracene	0.017
	Benzo (b) fluoranthene	0.012
	Chrysene	0.013
	Fluoranthene	0.061
	Pyrene	0.06
AP8-L	Anthracene	0.012
	Pyrene	0.012
AP9-L	NON-DETECTED	ND<0.02
AP10-L	NON-DETECTED	ND<0.02
AP11-L	2,4-Dimethylphenol	0.025
	3&4-Methylphenol	0.028
	Naphthalene	0.012
AP13-L	Fluoranthene	0.025
	Pyrene	0.014
AP14-L	NON-DETECTED	ND<0.02
AS2-L	NON-DETECTED	ND<0.5
CP1-L	NON-DETECTED	ND<0.02
CP2-L	NON-DETECTED	ND<0.02
CS1-L	NON-DETECTED	ND<0.02
DP1-L	NON-DETECTED	ND<0.02
DP2-L	NON-DETECTED	ND<0.02

NOTES:
Non-detected (ND)
(ppm) parts per million

Table 3
Summary of RCRA Metals Within Pits/Sumps Liquid Samples
Northland Supplemental Project, Buffalo

Sample I.D.	Compounds Detected	
	Compound	**Concentration (ppm)**
AP1-L	NON-DETECTED	ND<5.0
AP2-L	Barium	19.9
	Cadmium	0.758
	Chromium	7.38
	Lead	8.87
AP3-L	NON-DETECTED	ND<4.55
AP4-L	Lead	0.06
AP5-L	Chromium	0.05
	Lead	0.02
	Selenium	0.025
	Mercury	0.0005
AP6-L	Arsenic	0.006
	Chromium	0.022
	Selenium	0.007
AP7-L	Barium	7.19
	Chromium	0.757
	Lead	1.81
AP8-L	Chromium	0.023
	Lead	0.04
AP9-L	Barium	0.112
	Lead	0.006
AP10-L	Chromium	0.048
AP11-L	Barium	0.07
	Chromium	0.058
	Lead	0.030
	Selenium	0.009

Table 3
Summary of RCRA Metals Within Pits/Sumps Liquid Samples
Northland Supplemental Project, Buffalo

Sample I.D.	Compounds Detected	
	Compound	**Concentration (ppm)**
AP13-L	Arsenic	0.021
	Cadmium	0.136
	Chromium	0.027
	Lead	2.34
	Silver	0.006
	Mercury	0.0005
AP14-L	Barium	0.079
	Lead	0.013
A15-L	Barium	24.3
	Cadmium	1.05
	Chromium	7.09
	Lead	47.5
A17-L	Barium	71.6
	Cadmium	0.42
	Chromium	6.84
	Lead	37.8
A18-L	Barium	31.0
	Cadmium	0.69
	Chromium	5.98
	Lead	30.1
A19-L	Barium	25.8
	Cadmium	4.41
	Chromium	5.22
	Lead	21.0

Table 3
Summary of RCRA Metals Within Pits/Sumps Liquid Samples
Northland Supplemental Project, Buffalo

Sample I.D.	Compounds Detected	
	Compound	**Concentration (ppm)**
ASB-L	Chromium	1.75
	Lead	1.03
AS2-L	Cadmium	0.04
	Chromium	0.35
	Lead	1.05
	Mercury	0.0009
AWLTF	Cadmium	1.69
	Chromium	1.13
	Lead	8.73
CP1-L	Chromium	0.010
	Lead	0.018
CP2-L	Chromium	0.042
	Selenium	0.008
CS1-L	NON-DETECTED	ND<0.001
DP1-L	Selenium	0.007
DP2-L	Selenium	0.008

NOTES:
Non-detected (ND)

Table 4
Summary of PCBs Within Pits/Sumps Liquid Samples
Northland Supplemental Project, Buffalo

Sample I.D./ Location	Compounds Detected	
	Compound	Concentration (ppm)
AP1-L	NON-DETECTED	ND<0.962
AP2-L	NON-DETECTED	ND<0.822
ASB-L	NON-DETECTED	ND<0.952
AS2-L	PCB-1254	0.0025
AP3-L	PCB-1254	0.0021
AP4-L	NON-DETECTED	ND<0.001
AP5-L	NON-DETECTED	ND<0.001
AP6-L	NON-DETECTED	ND<0.001
AP7-L	NON-DETECTED	ND<0.001
AP8-L	NON-DETECTED	ND<0.001
AP9-L	PCB-1254	0.002
AP10-L	NON-DETECTED	ND<0.001
AP11-L	NON-DETECTED	ND<0.001
AP13-L	NON-DETECTED	ND<0.001
AP14-L	NON-DETECTED	ND<0.001
AP15-L	NON-DETECTED	ND<0.001
AP17-L	NON-DETECTED	ND<0.001
AP18-L	NON-DETECTED	ND<0.001
AP19-L	NON-DETECTED	ND<0.001
AWLTF	NON-DETECTED	ND<0.001
CP1-L	NON-DETECTED	ND<0.001
CP2-L	NON-DETECTED	ND<0.001
CS1-L	NON-DETECTED	ND<0.001
DP1-L	NON-DETECTED	ND<0.001
DP2-L	NON-DETECTED	ND<0.001

Notes:

Non-detected (ND)

Table 1
Summary of Volatile Organic Compounds Within Groundwater Monitoring Well Samples
Northand Supplemental Project, Buffalo

Sample I.D./ Location	Compounds Detected		
	Compounds	Concentration (ppb)	T.O.G.S 6 NYCRR 703.6 GW Limits
MW-1	NON-DETECTED	ND<2.0	NA
MW-2	Methylcyclohexane	3.37	NA
MW-3	cis-1,2-Dichloroethene	13.4	5.0
	Trichloroethene	28.0	5.0

NOTES:
Non-detected (ND)
(ppb) Parts per billion
Not Appicable (NA)

Table 2
Summary of Semi-Volatile Compounds Within Groundwater Monitoring Well Samples
Northand Supplemental Project, Buffalo

Sample I.D./ Location	Compounds Detected	
	Compounds	Concentration (ppm)
MW-1	NON-DETECTED	ND<0.02
MW-2	NON-DETECTED	ND<0.02
MW-3	NON-DETECTED	ND<0.02

NOTES:

Non-detected (ND)

(ppm) parts per million

Table 3
Summary of RCRA Metals Within Liquid Samples
Northland Supplemental Project, Buffalo

Sample I.D.	Compounds Detected		
	Compound	Concentration (ppm)	T.O.G.S 6 NYCRR 703.6 GW Limits
MW-1	NON-DETECTED	ND<0.1	NA
MW-2	Selenium	0.012	0.02
MW-3	Selenium	0.011	0.02

NOTES:
Non-detected (ND)
(ppm) parts per million
Not Appicable (NA)

Table 4
Summary of PCBs Within Groundwater Monitoring Well Samples
Northland Supplemental Project, Buffalo

Sample I.D./ Location	Compounds Detected	
	Compound	Concentration (ppm)
MW-1	NON-DETECTED	ND<0.001
MW-2	NON-DETECTED	ND<0.001
MW-3	NON-DETECTED	ND<0.001

Notes: Non-detected (ND)
(ppm) parts per million

Table 2
Summary of Semi-Volatile Compounds Within Pits/Flooring/Drain Solid Samples
Northand Supplemental Project, Buffalo

Sample I.D./ Location	Compounds Detected	
	Compounds	**Concentration (ppm)**
AP3-S	Acenaphthene	0.305
	Bis (2-ethlyhexyl) phthalate	0.444
	Dibenzofuran	0.524
	Fluoranthene	0.858
	Phenanthrene	1.46
	Pyrene	0.615
AP16-S	Benzo (a) anthracene	2.46
	Benzo (a) pyrene	2.03
	Benzo (b) fluoranthene	3.63
	Benzo (g,h,i) perylene	1.61
	Chrysene	3.24
	Fluoranthene	9.05
	Indeno (1,2,3-cd) pyrene	1.95
	Phenanthrene	8.59
	Pyrene	5.27
AWFloor (Wood)	Benzo (a) anthracene	498
	Benzo (a) pyrene	357
	Benzo (b) fluoranthene	416
	Benzo (k) fluoranthene	323
	Chrysene	555
	Fluoranthene	1510
	Indeno (1,2,3-cd) pyrene	316
	Phenanthrene	1220
	Pyrene	1100

Table 2
Summary of Semi-Volatile Compounds Within Pits/Flooring/Drain Solid Samples
Northand Supplemental Project, Buffalo

Sample I.D./ Location	Compounds Detected	
	Compounds	**Concentration (ppm)**
CWFloor (Wood)	Anthracene	297
	Benzo (a) anthracene	374
	Benzo (a) pyrene	233
	Benzo (b) fluoranthene	290
	Chrysene	405
	Fluoranthene	1470
	Phenanthrene	1650
	Pyrene	1050
CSF1 (Sand)	NON-DETECTED	ND<0.643
DSD1 (Sediment Drains)	Anthracene	2.03
	Benzo (a) anthracene	3.22
	Benzo (a) pyrene	3.00
	Benzo (b) fluoranthene	3.31
	Benzo (k) fluoranthene	3.13
	Chrysene	3.38
	Fluoranthene	8.21
	Indeno (1,2,3-cd) pyrene	2.89
	Phenanthrene	7.53
	Pyrene	6.09

NOTES:
Non-detected (ND)

Table 3
Summary of RCRA Metals Within Pits/Flooring/Drain Solid Samples
Northland Supplemental Project, Buffalo

Sample I.D.	Compounds Detected	
	Compound	**Concentration (ppm)**
AP3-S	Arsenic	10.3
	Barium	19.9
	Cadmium	0.682
	Chromium	4.81
	Lead	18.3
	Selenium	3.1
AP16-S	Arsenic	82.5
	Barium	865
	Cadmium	24.6
	Chromium	1310
	Lead	77.1
	Selenium	29.1
	Mercury	0.0890
AWFloor (Wood)	Arsenic	1.95
	Barium	71.2
	Cadmium	1.39
	Chromium	30.3
	Lead	68.4
	Selenium	1.2
	Silver	0.931
	Mercury	0.0102

Table 3
Summary of RCRA Metals Within Pits/Flooring/Drain Solid Samples
Northland Supplemental Project, Buffalo

Sample I.D.	Compounds Detected	
	Compound	**Concentration (ppm)**
CWFloor (Wood)	Arsenic	5.08
	Barium	46.9
	Cadmium	0.88
	Chromium	27.3
	Lead	41.4
	Selenium	1.97
	Silver	2.61
	Mercury	0.0071
CFS1 (Sand)	Arsenic	10.20
	Barium	38.8
	Cadmium	3.25
	Chromium	135.0
	Silver	3.63
	Mercury	0.0285
DSD1 (Sediment Drains)	Arsenic	52.2
	Barium	412
	Cadmium	15.0
	Chromium	270
	Lead	1630
	Selenium	7.65
	Silver	6.53
	Mercury	0.192

NOTES:

Table 4
Summary of PCBs/Pesticides Within Pits/Flooring/Drain Solid Samples
Northland Supplemental Project, Buffalo

Sample I.D./ Location	Compounds Detected	
	Compound	**Concentration (ppm)**
AWFloor (Wood)	PCB-1254	0.59
CWFloor (Wood)	PCB-1254	1.42
CFS1 (Sand)	NON-DETECTED	ND<0.452
DSD1 (Sediment Drains)	NON-DETECTED	ND<0.0389
	4,4-DDD	0.050 (P)
	4,4-DDE	0.029 (P)
	4,4-DDT	0.108
	alpha-BHC	0.011 (P)
	cis-Chlordane	0.004 (P)
	delta-BHC	0.005 (P)
	Dieldrin	0.004 (P)
	Endosulfan II	0.008 (P)
	Endosulfin Sulfate	0.009
	Endrin Aldehyde	0.006 (P)
	Endrin Ketone	0.013
	gamma-BHC (Lindane)	0.005 (P)
	Methoxychlor	0.110 (P)
	trans-Chlordane	0.013

Notes:
Non-detected (ND)
(P) >40% difference between primary and secondary analytical columns

Table 5
Summary of TPH/PCB/Metals Within UST Tank Liquid Samples
Northand Supplemental Project, Buffalo

Sample I.D./ Location	Compounds Detected	
	Compounds	Concentration (ppm)
Tank DTE25	Heavy weight PHC as Lube Oil	Pure Product
Tank 360	Heavy weight PHC as Lube Oil	Pure Product
North UST	Medium weight PHC as Diesel	Pure Product
	PCB's - NON-DETECTED	ND<0.952
	Metals - NON-DETECTED	ND<4.90
Middle UST	Medium weight PHC as Diesel - 75.7%	Pure Products Composited
	Heavy weight PHC as Lube Oil - 24.3%	Pure Products Composited
	PCB's - NON-DETECTED	ND<0.962
	Metals - NON-DETECTED	ND<4.72
South UST	Medium weight PHC as Diesel	Pure Product
	PCB's - NON-DETECTED	ND<0.99
	Metals - NON-DETECTED	ND<4.42

NOTES:
Non-detected (ND)

Table 6
Summary of Approximate Volume Within Pit Areas
Northland Supplemental Project, Buffalo

Sample I.D.	Approximate Liquid Volume (gallons)	Approximate Solid Volume (yards)
AP1	200	
AP2	200	
AP3	200	
AP3		30
AP4	100	
AP5	50	
AP6	50	
AP7	50	
AP8	60	
AP9	40	
AP10	200	
AP11	200	
AP13	25	
AP14	150	
AP15	50	
AP16		20
AP17	10	
AP18	50	
AP19	5	
AWFloor (wood block)		2550
ASB	25	
AS2	125	
AWLTF	20	
CP1	50	
CP2	100	
CFS1 (sand)		30
CWFloor (wood block)		420
DP1	1000	
DP2	1000	
Tank DTE 25	50	
Tank 630	50	
Tank North UST	23800 (Full)	
Tank Middle UST	150	
Tank South UST	150	
D Tires		100

APPENDIX D

GROUNDWATER SAMPLING LOGS

Fisher Associates — Low Flow Ground Water Sampling Log

Date	6/29/15	Personnel	T. MOORE	Weather	SUNNY 70°F
Site Name	NORTHLAND SITES	Evacuation Method	GROPUMP	Well #	MW-1
Site Location	683 NORTHLAND AVE	Sampling Method	GROPUMP	Project #	154034

Well information:

Depth of Well * 15.63 ft.
Depth to Water * 8.11 ft.
Length of Water Column ____ ft.

* Measurements taken from
- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: ____

Elapsed Time	Depth To Water	Temperature	pH	Conductivity	Oxidation Reduction Potential	Dissolved Oxygen	Turbidity	Flow Rate
1340 (0)	(8.14)	(0°C)		(ms/cm)		(mg/l)	(NTU)	(ml/min).
45 5	8.13	13.0	7.13	.521	-32.3	0.21	3.50	500
50 10	8.15	13.0	7.04	.520	-40.9	0.19	2.74	500
55 15	8.15	13.0	7.00	.521	-41.4	0.27	2.48	500
1400 20	8.15	13.1	6.99	.520	-41.8	0.48	1.80	500
1405 25	8.15	13.1	6.98	.521	-43.4	0.34	2.17	500
1410 30								

End Purge Time: 1405

Water sample:

Time collected: 1410

Total volume of purged water removed: 3.3 gallons.

Physical appearance at start
- Color: COLORLESS
- Odor: PETROLEUM LIKE ODOR
- Sheen/Free Product: NONE

Physical appearance at sampling
- Color: COLORLESS
- Odor: PETROLEUM LIKE ODOR
- Sheen/Free Product: NONE

Field Test Results:
- Dissolved ferrous iron:
- Dissolved total iron: N/A
- Dissolved total manganese:

Turbidity - 2.29

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40ML	GLASS/COLOR	2	NONE	HCL	<2
250ML	POLY	1	NONE	HNO3	<2
1000ML	GLASS/AMBER	2	NONE		

Fisher Associates — Low Flow Ground Water Sampling Log

Date	6/29/15	Personnel	J. MOORE	Weather	SUNNY 70°F
Site Name	NORTHLAND SITES	Evacuation Method	GEOPUMP	Well #	MW-2
Site Location	683 NORTHLAND AVE.	Sampling Method	GEOPUMP.	Project #	154034

Well Information:

Depth of Well *	16.80	ft.	* Measurements taken from
Depth to Water *	6.03	ft.	X Top of Well Casing
Length of Water Column	10.77	ft.	Top of Protective Casing
			(Other, Specify)

Start Purge Time: _____

	Elapsed Time	Depth To Water	Temperature	pH	Conductivity	Oxidation Reduction Potential	Dissolved Oxygen	Turbidity	Flow Rate
	(0)	(6.05)	(0°)		(MS/cm)		(mg/l)	(NTU)	(ml/min).
1159	0	6.05	0°						
1206	3	6.26	12.6	9.07	0.500	94.4	0.80	2.09	210
05	8	6.70	12.7	9.18	.488	85.2	0.79	1.14	210
10	13	6.85	12.7	9.28	.485	82.5	0.91	1.75	210
15	18	6.99	12.6	9.25	.490	82.2	0.87	1.38	210
20	23	7.05	12.7	9.25	.490	82.0	0.88	1.52	210
25	28	7.11	12.8	9.24	.492	81.8	0.83	1.43	210
30	33	7.19	12.8	9.23	.495	81.4	0.76	1.87	210
* 35	38	7.24	12.7	9.23	.495	80.4	0.75	1.59	210
↘ 40	43	7.21	12.9	9.21	.496	79.0	0.67	1.88	210..
45	48	7.19	13.1	9.21	.495	78.4	0.68	1.41	175 *
50	53	7.13	13.4	9.20	.499	77.7	0.61	1.51	160
55	58	7.13	13.3	9.19	.503	76.9	0.62	1.08	160
60	63	7.14	13.3	9.17	.508	76.1	0.56	1.04	160
65	68	7.14	13.2	9.14	.511	74.9	0.55	.96	160

End Purge Time: 1305

Water sample:

Time collected: 1305

Total volume of purged water removed: 3.44 GALLONS

Physical appearance at start

Color: COLORLESS
Odor: NONE
Sheen/Free Product: NO

Physical appearance at sampling

Color: COLORLESS
Odor: NONE
Sheen/Free Product: NONE
TURBIDITY: 0.86 NTU

Field Test Results:

Dissolved ferrous iron: _____
Dissolved total iron: N/A
Dissolved total manganese: _____

* FLOW DECREASE TO: 175 ML/MIN (ADJUSTED)

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40ML	GLASS/CLEAR	2	NO	HCL	<2
250ML	POLY	1	NO	HNO3	<2
1000ML	GLASS/AMBER	2	NO	NONE	

Fisher Associates — Low Flow Ground Water Sampling Log

Date	6/29/15	Personnel	J MOORE	Weather	SUNNY 70°F WINDS NW 5-10 MPH
Site Name	NORTHLAND SITES	Evacuation Method	GEO PUMP PERISTALTIC	Well #	MW-3
Site Location	683 NORTHLAND AVE	Sampling Method	GEO PUMP PERISTALTIC	Project #	154034

Well information:

Depth of Well *	23.80	ft.
Depth to Water *	7.71	ft.
Length of Water Column	16.09	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: _____

Elapsed Time ( )	Depth To Water (7.70)	Temperature (°C)	pH	Conductivity (mS/cm)	Oxidation Reduction Potential	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min).
0 0905	7.86	13.7	7.25	0.88	181.8	1.55	2.12	100
3 0908	8.03	12.9	7.06	0.86	150.5	0.63	2.40	100
0911 6	8.11	13.2	7.04	0.86	136.8	0.59	2.40	100
0915 10	8.25	13.4	7.04	0.86	124.3	0.91	3.17	100
0920 15	8.42	13.4	7.04	0.86	110.3	1.79	2.60	100
25 20	8.55	13.1	7.04	0.86	100.0	1.31	2.54	100
30 25	8.59	13.4	7.05	0.86	95.4	1.03	1.82	100
35 30	8.74	13.1	7.05	0.86	90.3	0.86	1.74	100
40 35	8.98	13.4	7.05	0.87	86.7	0.78	1.71	100
45 40	9.09	13.4	7.06	0.87	83.1	0.70	1.70	100
50 45	9.34	13.2	7.07	0.87	75.2	0.59	2.57	100
50	9.54	13.2	7.07	0.86	72.2	0.52	3.62	100
1000 55	9.65	13.3	7.07	0.86	71.8	0.49	2.52	100
60	9.80	12.9	7.08	0.86	72.2	0.44	2.84	100
65	9.95	13.0	7.08	0.86	72.9	0.41	2.45	100
70	10.11	13.3	7.09	0.86	72.3	0.40	2.39	100
20 75	10.19	13.5	7.09	0.86	71.9	0.34	2.33	100
80	10.28	13.2	7.09	0.86	70.8	0.37	3.83	100
30 85	10.35	13.9	7.10	0.86	70.5	0.36	2.15	100
90	10.41	13.7	7.10	0.86	64.0	0.34	2.87	100
40 95	10.46	13.9	7.11	0.86	58.9	0.32	2.81	100
100	10.53	13.7	7.12	0.86	55.6	0.31	2.82	100
50 105	10.58	13.9	7.13	0.86	58.6	0.30	3.05	100
110	10.63	14.0	7.13	0.86	61.6	0.29	3.17	100
End Purge Time: 1105								
115	10.70	13.8	7.13	0.86	58.1	0.29	3.32	100
Water sample:								
120	10.76	14.0	7.14	0.86	55.8	0.28	4.17	100
Time collected: 1105				Total volume of purged water removed:			3.17	GALLONS

Physical appearance at start

Color	COLORLESS
Odor	NONE
Sheen/Free Product	NONE

Physical appearance at sampling

Color	COLORLESS
Odor	NONE
Sheen/Free Product	NONE

4.38

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: N/A

NOTE: MINIMUM FLOWRATE FOR PUMP ~100 ML/MIN.

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40ML	GLASS/CLEAR	2	NO	1:1 HCL	<2
250ML	POLY	1	NO	HNO_3	<2
1000ML	GLASS/AMBER	2	NO	NONE	—

APPENDIX E

LABORATORY ANALYTICAL DATA

PARADIGM

Analytical Report For

Fisher Associates

For Lab Project ID

151817

Referencing

Northland Ave

Prepared

Tuesday, May 19, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB009-050715 (0-4')
Lab Sample ID: 151817-01 **Date Sampled:** 5/7/2015
Matrix: Soil **Date Received:** 5/12/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.149**	mg/Kg		5/18/2015 14:22

Method Reference(s): EPA 7471B
Preparation Date: 5/18/2015
Data File: Hg150518A

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**27.2**	mg/Kg		5/14/2015 19:39
Barium	**150**	mg/Kg		5/14/2015 19:39
Cadmium	**4.07**	mg/Kg		5/14/2015 19:39
Chromium	**256**	mg/Kg		5/14/2015 19:39
Lead	**174**	mg/Kg		5/14/2015 19:39
Selenium	**16.0**	mg/Kg		5/14/2015 19:39
Silver	**2.88**	mg/Kg		5/14/2015 19:39

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 5/14/2015
Data File: 051415c

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 1.72	mg/Kg		5/19/2015 02:26
PCB-1221	< 1.72	mg/Kg		5/19/2015 02:26
PCB-1232	< 1.72	mg/Kg		5/19/2015 02:26
PCB-1242	< 1.72	mg/Kg		5/19/2015 02:26
PCB-1248	< 1.72	mg/Kg		5/19/2015 02:26
PCB-1254	**13.6**	mg/Kg		5/19/2015 02:26
PCB-1260	< 1.72	mg/Kg		5/19/2015 02:26
PCB-1262	< 1.72	mg/Kg		5/19/2015 02:26
PCB-1268	< 1.72	mg/Kg		5/19/2015 02:26

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB009-050715 (0-4')

Lab Sample ID: 151817-01 **Date Sampled:** 5/7/2015

Matrix: Soil **Date Received:** 5/12/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	NC	30.5 - 159		5/19/2015 02:26
Tetrachloro-m-xylene	NC	23.2 - 144		5/19/2015 02:26

Method Reference(s): EPA 8082A
EPA 3550C

Preparation Date: 5/14/2015

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	**1470**	ug/Kg		5/18/2015 11:07
4,4-DDE	**634**	ug/Kg		5/18/2015 11:07
4,4-DDT	**1770**	ug/Kg		5/18/2015 11:07
Aldrin	< 172	ug/Kg		5/18/2015 11:07
alpha-BHC	< 172	ug/Kg		5/18/2015 11:07
beta-BHC	< 172	ug/Kg		5/18/2015 11:07
cis-Chlordane	< 172	ug/Kg		5/18/2015 11:07
delta-BHC	< 172	ug/Kg		5/18/2015 11:07
Dieldrin	**720**	ug/Kg	P	5/18/2015 11:07
Endosulfan I	< 172	ug/Kg		5/18/2015 11:07
Endosulfan II	< 172	ug/Kg		5/18/2015 11:07
Endosulfan Sulfate	**199**	ug/Kg	P	5/18/2015 11:07
Endrin	**215**	ug/Kg		5/18/2015 11:07
Endrin Aldehyde	**247**	ug/Kg	P	5/18/2015 11:07
Endrin Ketone	**250**	ug/Kg	P	5/18/2015 11:07
gamma-BHC (Lindane)	< 172	ug/Kg		5/18/2015 11:07
Heptachlor	< 172	ug/Kg		5/18/2015 11:07
Heptachlor Epoxide	**906**	ug/Kg		5/18/2015 11:07
Methoxychlor	**279**	ug/Kg		5/18/2015 11:07
Toxaphene	< 1720	ug/Kg		5/18/2015 11:07
trans-Chlordane	**398**	ug/Kg	P	5/18/2015 11:07

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB009-050715 (0-4')

Lab Sample ID: 151817-01 **Date Sampled:** 5/7/2015

Matrix: Soil **Date Received:** 5/12/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	NC	32.1 - 117.1		5/18/2015 11:07
Tetrachloro-m-xylene (1)	NC	28.3 - 115.3		5/18/2015 11:07

Method Reference(s): EPA 8081B
EPA 3550C
Preparation Date: 5/14/2015

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 339	ug/Kg		5/15/2015 00:29
Acenaphthylene	< 339	ug/Kg		5/15/2015 00:29
Anthracene	**357**	ug/Kg		5/15/2015 00:29
Benzo (a) anthracene	**952**	ug/Kg		5/15/2015 00:29
Benzo (a) pyrene	**909**	ug/Kg		5/15/2015 00:29
Benzo (b) fluoranthene	**604**	ug/Kg		5/15/2015 00:29
Benzo (g,h,i) perylene	**770**	ug/Kg		5/15/2015 00:29
Benzo (k) fluoranthene	**1150**	ug/Kg		5/15/2015 00:29
Chrysene	**1110**	ug/Kg		5/15/2015 00:29
Dibenz (a,h) anthracene	< 339	ug/Kg		5/15/2015 00:29
Fluoranthene	**2300**	ug/Kg		5/15/2015 00:29
Fluorene	< 339	ug/Kg		5/15/2015 00:29
Indeno (1,2,3-cd) pyrene	**941**	ug/Kg		5/15/2015 00:29
Naphthalene	**420**	ug/Kg		5/15/2015 00:29
Phenanthrene	**1720**	ug/Kg		5/15/2015 00:29
Pyrene	**2370**	ug/Kg		5/15/2015 00:29

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**69.6**	35.9 - 103		5/15/2015 00:29
Nitrobenzene-d5	**35.6**	37.2 - 90.6	*	5/15/2015 00:29
Terphenyl-d14	**83.7**	58.2 - 113		5/15/2015 00:29

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 5/13/2015
Data File: B05140.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB009-050715 (0-4')
Lab Sample ID: 151817-01 **Date Sampled:** 5/7/2015
Matrix: Soil **Date Received:** 5/12/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 51.6	ug/Kg		5/13/2015 13:26
1,1,2,2-Tetrachloroethane	< 51.6	ug/Kg		5/13/2015 13:26
1,1,2-Trichloroethane	< 51.6	ug/Kg		5/13/2015 13:26
1,1-Dichloroethane	< 51.6	ug/Kg		5/13/2015 13:26
1,1-Dichloroethene	< 51.6	ug/Kg		5/13/2015 13:26
1,2,3-Trichlorobenzene	< 129	ug/Kg		5/13/2015 13:26
1,2,4-Trichlorobenzene	< 129	ug/Kg		5/13/2015 13:26
1,2,4-Trimethylbenzene	**2270**	ug/Kg		5/13/2015 13:26
1,2-Dibromo-3-Chloropropane	< 258	ug/Kg		5/13/2015 13:26
1,2-Dibromoethane	< 51.6	ug/Kg		5/13/2015 13:26
1,2-Dichlorobenzene	< 51.6	ug/Kg		5/13/2015 13:26
1,2-Dichloroethane	< 51.6	ug/Kg		5/13/2015 13:26
1,2-Dichloropropane	< 51.6	ug/Kg		5/13/2015 13:26
1,3,5-Trimethylbenzene	**1350**	ug/Kg		5/13/2015 13:26
1,3-Dichlorobenzene	< 51.6	ug/Kg		5/13/2015 13:26
1,4-Dichlorobenzene	< 51.6	ug/Kg		5/13/2015 13:26
1,4-dioxane	< 516	ug/Kg		5/13/2015 13:26
2-Butanone	< 258	ug/Kg		5/13/2015 13:26
2-Hexanone	< 129	ug/Kg		5/13/2015 13:26
4-Methyl-2-pentanone	< 129	ug/Kg		5/13/2015 13:26
Acetone	< 258	ug/Kg		5/13/2015 13:26
Benzene	< 51.6	ug/Kg		5/13/2015 13:26
Bromochloromethane	< 129	ug/Kg		5/13/2015 13:26
Bromodichloromethane	< 51.6	ug/Kg		5/13/2015 13:26
Bromoform	< 129	ug/Kg		5/13/2015 13:26
Bromomethane	< 51.6	ug/Kg		5/13/2015 13:26
Carbon disulfide	< 51.6	ug/Kg		5/13/2015 13:26
Carbon Tetrachloride	< 51.6	ug/Kg		5/13/2015 13:26
Chlorobenzene	< 51.6	ug/Kg		5/13/2015 13:26

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB009-050715 (0-4')

Lab Sample ID: 151817-01 **Date Sampled:** 5/7/2015

Matrix: Soil **Date Received:** 5/12/2015

Chloroethane	< 51.6	ug/Kg	5/13/2015	13:26
Chloroform	< 51.6	ug/Kg	5/13/2015	13:26
Chloromethane	< 51.6	ug/Kg	5/13/2015	13:26
cis-1,2-Dichloroethene	< 51.6	ug/Kg	5/13/2015	13:26
cis-1,3-Dichloropropene	< 51.6	ug/Kg	5/13/2015	13:26
Cyclohexane	< 258	ug/Kg	5/13/2015	13:26
Dibromochloromethane	< 51.6	ug/Kg	5/13/2015	13:26
Dichlorodifluoromethane	< 51.6	ug/Kg	5/13/2015	13:26
Ethylbenzene	< 51.6	ug/Kg	5/13/2015	13:26
Freon 113	< 51.6	ug/Kg	5/13/2015	13:26
Isopropylbenzene	< 51.6	ug/Kg	5/13/2015	13:26
m,p-Xylene	**72.5**	ug/Kg	5/13/2015	13:26
Methyl acetate	< 51.6	ug/Kg	5/13/2015	13:26
Methyl tert-butyl Ether	< 51.6	ug/Kg	5/13/2015	13:26
Methylcyclohexane	**143**	ug/Kg	5/13/2015	13:26
Methylene chloride	< 129	ug/Kg	5/13/2015	13:26
Naphthalene	**239**	ug/Kg	5/13/2015	13:26
n-Butylbenzene	< 51.6	ug/Kg	5/13/2015	13:26
n-Propylbenzene	< 51.6	ug/Kg	5/13/2015	13:26
o-Xylene	< 51.6	ug/Kg	5/13/2015	13:26
p-Isopropyltoluene	**167**	ug/Kg	5/13/2015	13:26
sec-Butylbenzene	**139**	ug/Kg	5/13/2015	13:26
Styrene	< 129	ug/Kg	5/13/2015	13:26
tert-Butylbenzene	< 51.6	ug/Kg	5/13/2015	13:26
Tetrachloroethene	< 51.6	ug/Kg	5/13/2015	13:26
Toluene	< 51.6	ug/Kg	5/13/2015	13:26
trans-1,2-Dichloroethene	< 51.6	ug/Kg	5/13/2015	13:26
trans-1,3-Dichloropropene	< 51.6	ug/Kg	5/13/2015	13:26
Trichloroethene	< 51.6	ug/Kg	5/13/2015	13:26
Trichlorofluoromethane	< 51.6	ug/Kg	5/13/2015	13:26
Vinyl chloride	< 51.6	ug/Kg	5/13/2015	13:26

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB009-050715 (0-4')

Lab Sample ID: 151817-01 **Date Sampled:** 5/7/2015

Matrix: Soil **Date Received:** 5/12/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**107**	80.6 - 125		5/13/2015	13:26
4-Bromofluorobenzene	**86.6**	86.6 - 111		5/13/2015	13:26
Pentafluorobenzene	**100**	90.9 - 107		5/13/2015	13:26
Toluene-D8	**101**	90.8 - 109		5/13/2015	13:26

Method Reference(s): EPA 8260C
EPA 5035A

Data File: x22786.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB010-050715 (4-8')
Lab Sample ID: 151817-02 **Date Sampled:** 5/7/2015
Matrix: Soil **Date Received:** 5/12/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0490**	mg/Kg		5/18/2015 14:32

Method Reference(s): EPA 7471B
Preparation Date: 5/18/2015
Data File: Hg150518A

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**7.63**	mg/Kg		5/14/2015 19:42
Barium	**127**	mg/Kg		5/14/2015 19:42
Cadmium	**0.589**	mg/Kg		5/14/2015 19:42
Chromium	**31.3**	mg/Kg		5/14/2015 19:42
Lead	**63.4**	mg/Kg		5/14/2015 19:42
Selenium	**3.44**	mg/Kg		5/14/2015 19:42
Silver	**1.40**	mg/Kg		5/14/2015 19:42

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 5/14/2015
Data File: 051415c

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.165	mg/Kg		5/19/2015 02:49
PCB-1221	< 0.165	mg/Kg		5/19/2015 02:49
PCB-1232	< 0.165	mg/Kg		5/19/2015 02:49
PCB-1242	< 0.165	mg/Kg		5/19/2015 02:49
PCB-1248	< 0.165	mg/Kg		5/19/2015 02:49
PCB-1254	**1.78**	mg/Kg		5/19/2015 02:49
PCB-1260	< 0.165	mg/Kg		5/19/2015 02:49
PCB-1262	< 0.165	mg/Kg		5/19/2015 02:49
PCB-1268	< 0.165	mg/Kg		5/19/2015 02:49

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB010-050715 (4-8')

Lab Sample ID: 151817-02 **Date Sampled:** 5/7/2015

Matrix: Soil **Date Received:** 5/12/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**48.9**	30.5 - 159		5/19/2015 02:49
Tetrachloro-m-xylene	**35.0**	23.2 - 144		5/19/2015 02:49

Method Reference(s): EPA 8082A
EPA 3550C

Preparation Date: 5/14/2015

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	**212**	ug/Kg		5/15/2015 16:18
4,4-DDE	**119**	ug/Kg		5/15/2015 16:18
4,4-DDT	**280**	ug/Kg		5/15/2015 16:18
Aldrin	< 16.5	ug/Kg		5/15/2015 16:18
alpha-BHC	< 16.5	ug/Kg		5/15/2015 16:18
beta-BHC	< 16.5	ug/Kg		5/15/2015 16:18
cis-Chlordane	< 16.5	ug/Kg		5/15/2015 16:18
delta-BHC	< 16.5	ug/Kg		5/15/2015 16:18
Dieldrin	**89.5**	ug/Kg	P	5/15/2015 16:18
Endosulfan I	< 16.5	ug/Kg		5/15/2015 16:18
Endosulfan II	**17.7**	ug/Kg	P	5/15/2015 16:18
Endosulfan Sulfate	**23.8**	ug/Kg	P	5/15/2015 16:18
Endrin	**22.9**	ug/Kg	P	5/15/2015 16:18
Endrin Aldehyde	**25.4**	ug/Kg	P	5/15/2015 16:18
Endrin Ketone	< 16.5	ug/Kg		5/15/2015 16:18
gamma-BHC (Lindane)	< 16.5	ug/Kg		5/15/2015 16:18
Heptachlor	< 16.5	ug/Kg		5/15/2015 16:18
Heptachlor Epoxide	**169**	ug/Kg		5/15/2015 16:18
Methoxychlor	**48.7**	ug/Kg		5/15/2015 16:18
Toxaphene	< 165	ug/Kg		5/15/2015 16:18
trans-Chlordane	**48.4**	ug/Kg	P	5/15/2015 16:18

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB010-050715 (4-8')

Lab Sample ID: 151817-02 **Date Sampled:** 5/7/2015

Matrix: Soil **Date Received:** 5/12/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**154**	32.1 - 117.1	*	5/15/2015 16:18
Tetrachloro-m-xylene (1)	**46.4**	28.3 - 115.3		5/15/2015 16:18

Method Reference(s): EPA 8081B
EPA 3550C
Preparation Date: 5/14/2015

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	**332**	ug/Kg		5/15/2015 00:56
Acenaphthylene	< 327	ug/Kg		5/15/2015 00:56
Anthracene	< 327	ug/Kg		5/15/2015 00:56
Benzo (a) anthracene	**422**	ug/Kg		5/15/2015 00:56
Benzo (a) pyrene	**896**	ug/Kg		5/15/2015 00:56
Benzo (b) fluoranthene	**494**	ug/Kg		5/15/2015 00:56
Benzo (g,h,i) perylene	**506**	ug/Kg		5/15/2015 00:56
Benzo (k) fluoranthene	**985**	ug/Kg		5/15/2015 00:56
Chrysene	**1420**	ug/Kg		5/15/2015 00:56
Dibenz (a,h) anthracene	< 327	ug/Kg		5/15/2015 00:56
Fluoranthene	**1700**	ug/Kg		5/15/2015 00:56
Fluorene	< 327	ug/Kg		5/15/2015 00:56
Indeno (1,2,3-cd) pyrene	**587**	ug/Kg		5/15/2015 00:56
Naphthalene	< 327	ug/Kg		5/15/2015 00:56
Phenanthrene	**1260**	ug/Kg		5/15/2015 00:56
Pyrene	**1620**	ug/Kg		5/15/2015 00:56

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**71.7**	35.9 - 103		5/15/2015 00:56
Nitrobenzene-d5	**33.8**	37.2 - 90.6	*	5/15/2015 00:56
Terphenyl-d14	**81.7**	58.2 - 113		5/15/2015 00:56

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 5/13/2015
Data File: B05141.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB010-050715 (4-8')
Lab Sample ID: 151817-02 **Date Sampled:** 5/7/2015
Matrix: Soil **Date Received:** 5/12/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 10.9	ug/Kg		5/13/2015 17:04
1,1,2,2-Tetrachloroethane	< 10.9	ug/Kg		5/13/2015 17:04
1,1,2-Trichloroethane	< 10.9	ug/Kg		5/13/2015 17:04
1,1-Dichloroethane	< 10.9	ug/Kg		5/13/2015 17:04
1,1-Dichloroethene	< 10.9	ug/Kg		5/13/2015 17:04
1,2,3-Trichlorobenzene	< 27.2	ug/Kg		5/13/2015 17:04
1,2,4-Trichlorobenzene	< 27.2	ug/Kg		5/13/2015 17:04
1,2,4-Trimethylbenzene	**25.4**	ug/Kg		5/13/2015 17:04
1,2-Dibromo-3-Chloropropane	< 54.3	ug/Kg		5/13/2015 17:04
1,2-Dibromoethane	< 10.9	ug/Kg		5/13/2015 17:04
1,2-Dichlorobenzene	< 10.9	ug/Kg		5/13/2015 17:04
1,2-Dichloroethane	< 10.9	ug/Kg		5/13/2015 17:04
1,2-Dichloropropane	< 10.9	ug/Kg		5/13/2015 17:04
1,3,5-Trimethylbenzene	< 10.9	ug/Kg		5/13/2015 17:04
1,3-Dichlorobenzene	< 10.9	ug/Kg		5/13/2015 17:04
1,4-Dichlorobenzene	< 10.9	ug/Kg		5/13/2015 17:04
1,4-dioxane	< 109	ug/Kg		5/13/2015 17:04
2-Butanone	< 54.3	ug/Kg		5/13/2015 17:04
2-Hexanone	< 27.2	ug/Kg		5/13/2015 17:04
4-Methyl-2-pentanone	< 27.2	ug/Kg		5/13/2015 17:04
Acetone	**120**	ug/Kg		5/13/2015 17:04
Benzene	< 10.9	ug/Kg		5/13/2015 17:04
Bromochloromethane	< 27.2	ug/Kg		5/13/2015 17:04
Bromodichloromethane	< 10.9	ug/Kg		5/13/2015 17:04
Bromoform	< 27.2	ug/Kg		5/13/2015 17:04
Bromomethane	< 10.9	ug/Kg		5/13/2015 17:04
Carbon disulfide	< 10.9	ug/Kg		5/13/2015 17:04
Carbon Tetrachloride	< 10.9	ug/Kg		5/13/2015 17:04
Chlorobenzene	< 10.9	ug/Kg		5/13/2015 17:04

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB010-050715 (4-8')
Lab Sample ID: 151817-02 **Date Sampled:** 5/7/2015
Matrix: Soil **Date Received:** 5/12/2015

Chloroethane	< 10.9	ug/Kg	5/13/2015	17:04
Chloroform	< 10.9	ug/Kg	5/13/2015	17:04
Chloromethane	< 10.9	ug/Kg	5/13/2015	17:04
cis-1,2-Dichloroethene	< 10.9	ug/Kg	5/13/2015	17:04
cis-1,3-Dichloropropene	< 10.9	ug/Kg	5/13/2015	17:04
Cyclohexane	< 54.3	ug/Kg	5/13/2015	17:04
Dibromochloromethane	< 10.9	ug/Kg	5/13/2015	17:04
Dichlorodifluoromethane	< 10.9	ug/Kg	5/13/2015	17:04
Ethylbenzene	< 10.9	ug/Kg	5/13/2015	17:04
Freon 113	< 10.9	ug/Kg	5/13/2015	17:04
Isopropylbenzene	**147**	ug/Kg	5/13/2015	17:04
m,p-Xylene	**25.8**	ug/Kg	5/13/2015	17:04
Methyl acetate	< 10.9	ug/Kg	5/13/2015	17:04
Methyl tert-butyl Ether	< 10.9	ug/Kg	5/13/2015	17:04
Methylcyclohexane	**36.1**	ug/Kg	5/13/2015	17:04
Methylene chloride	< 27.2	ug/Kg	5/13/2015	17:04
Naphthalene	< 27.2	ug/Kg	5/13/2015	17:04
n-Butylbenzene	**90.6**	ug/Kg	5/13/2015	17:04
n-Propylbenzene	**100**	ug/Kg	5/13/2015	17:04
o-Xylene	< 10.9	ug/Kg	5/13/2015	17:04
p-Isopropyltoluene	< 10.9	ug/Kg	5/13/2015	17:04
sec-Butylbenzene	**163**	ug/Kg	5/13/2015	17:04
Styrene	< 27.2	ug/Kg	5/13/2015	17:04
tert-Butylbenzene	< 10.9	ug/Kg	5/13/2015	17:04
Tetrachloroethene	**15.5**	ug/Kg	5/13/2015	17:04
Toluene	< 10.9	ug/Kg	5/13/2015	17:04
trans-1,2-Dichloroethene	< 10.9	ug/Kg	5/13/2015	17:04
trans-1,3-Dichloropropene	< 10.9	ug/Kg	5/13/2015	17:04
Trichloroethene	< 10.9	ug/Kg	5/13/2015	17:04
Trichlorofluoromethane	< 10.9	ug/Kg	5/13/2015	17:04
Vinyl chloride	< 10.9	ug/Kg	5/13/2015	17:04

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB010-050715 (4-8')

Lab Sample ID: 151817-02 **Date Sampled:** 5/7/2015

Matrix: Soil **Date Received:** 5/12/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**107**	80.6 - 125		5/13/2015 17:04
4-Bromofluorobenzene	**102**	86.6 - 111		5/13/2015 17:04
Pentafluorobenzene	**99.5**	90.9 - 107		5/13/2015 17:04
Toluene-D8	**101**	90.8 - 109		5/13/2015 17:04

Method Reference(s): EPA 8260C
EPA 5035A

Data File: x22795.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB006-050715 (0-4')
Lab Sample ID: 151817-03 **Date Sampled:** 5/7/2015
Matrix: Soil **Date Received:** 5/12/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0274**	mg/Kg		5/18/2015 14:36

Method Reference(s): EPA 7471B
Preparation Date: 5/18/2015
Data File: Hg150518A

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**40.8**	mg/Kg		5/14/2015 19:47
Barium	**657**	mg/Kg		5/14/2015 19:47
Cadmium	**10.9**	mg/Kg		5/14/2015 19:47
Chromium	**385**	mg/Kg		5/14/2015 19:47
Lead	**117**	mg/Kg		5/14/2015 19:47
Selenium	**39.3**	mg/Kg		5/14/2015 19:47
Silver	**11.5**	mg/Kg		5/14/2015 19:47

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 5/14/2015
Data File: 051415c

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0358	mg/Kg		5/14/2015 23:29
PCB-1221	< 0.0358	mg/Kg		5/14/2015 23:29
PCB-1232	< 0.0358	mg/Kg		5/14/2015 23:29
PCB-1242	< 0.0358	mg/Kg		5/14/2015 23:29
PCB-1248	< 0.0358	mg/Kg		5/14/2015 23:29
PCB-1254	**0.551**	mg/Kg		5/14/2015 23:29
PCB-1260	< 0.0358	mg/Kg		5/14/2015 23:29
PCB-1262	< 0.0358	mg/Kg		5/14/2015 23:29
PCB-1268	< 0.0358	mg/Kg		5/14/2015 23:29

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB006-050715 (0-4')

Lab Sample ID: 151817-03 **Date Sampled:** 5/7/2015

Matrix: Soil **Date Received:** 5/12/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**51.1**	30.5 - 159		5/14/2015 23:29
Tetrachloro-m-xylene	**35.9**	23.2 - 144		5/14/2015 23:29

Method Reference(s): EPA 8082A
EPA 3550C

Preparation Date: 5/14/2015

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	**81.8**	ug/Kg		5/15/2015 16:34
4,4-DDE	**31.0**	ug/Kg		5/15/2015 16:34
4,4-DDT	**104**	ug/Kg		5/15/2015 16:34
Aldrin	< 3.58	ug/Kg		5/15/2015 16:34
alpha-BHC	< 3.58	ug/Kg		5/15/2015 16:34
beta-BHC	**5.94**	ug/Kg	P	5/15/2015 16:34
cis-Chlordane	< 3.58	ug/Kg		5/15/2015 16:34
delta-BHC	< 3.58	ug/Kg		5/15/2015 16:34
Dieldrin	**32.8**	ug/Kg	P	5/15/2015 16:34
Endosulfan I	< 3.58	ug/Kg		5/15/2015 16:34
Endosulfan II	**5.17**	ug/Kg	P	5/15/2015 16:34
Endosulfan Sulfate	**10.6**	ug/Kg	P	5/15/2015 16:34
Endrin	**7.16**	ug/Kg	P	5/15/2015 16:34
Endrin Aldehyde	**11.7**	ug/Kg	P	5/15/2015 16:34
Endrin Ketone	**4.06**	ug/Kg	P	5/15/2015 16:34
gamma-BHC (Lindane)	< 3.58	ug/Kg		5/15/2015 16:34
Heptachlor	< 3.58	ug/Kg		5/15/2015 16:34
Heptachlor Epoxide	**47.4**	ug/Kg	P	5/15/2015 16:34
Methoxychlor	**17.0**	ug/Kg	P	5/15/2015 16:34
Toxaphene	< 35.8	ug/Kg		5/15/2015 16:34
trans-Chlordane	**11.7**	ug/Kg	P	5/15/2015 16:34

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB006-050715 (0-4')

Lab Sample ID: 151817-03 **Date Sampled:** 5/7/2015

Matrix: Soil **Date Received:** 5/12/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**258**	32.1 - 117.1	*	5/15/2015 16:34
Tetrachloro-m-xylene (1)	**59.7**	28.3 - 115.3		5/15/2015 16:34

Method Reference(s): EPA 8081B
EPA 3550C
Preparation Date: 5/14/2015

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 348	ug/Kg		5/15/2015 01:23
Acenaphthylene	< 348	ug/Kg		5/15/2015 01:23
Anthracene	**443**	ug/Kg		5/15/2015 01:23
Benzo (a) anthracene	**1270**	ug/Kg		5/15/2015 01:23
Benzo (a) pyrene	**1240**	ug/Kg		5/15/2015 01:23
Benzo (b) fluoranthene	**1550**	ug/Kg		5/15/2015 01:23
Benzo (g,h,i) perylene	**819**	ug/Kg		5/15/2015 01:23
Benzo (k) fluoranthene	**550**	ug/Kg		5/15/2015 01:23
Chrysene	**1190**	ug/Kg		5/15/2015 01:23
Dibenz (a,h) anthracene	< 348	ug/Kg		5/15/2015 01:23
Fluoranthene	**2240**	ug/Kg		5/15/2015 01:23
Fluorene	< 348	ug/Kg		5/15/2015 01:23
Indeno (1,2,3-cd) pyrene	**1100**	ug/Kg		5/15/2015 01:23
Naphthalene	< 348	ug/Kg		5/15/2015 01:23
Phenanthrene	**1290**	ug/Kg		5/15/2015 01:23
Pyrene	**1850**	ug/Kg		5/15/2015 01:23

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**50.3**	35.9 - 103		5/15/2015 01:23
Nitrobenzene-d5	**47.5**	37.2 - 90.6		5/15/2015 01:23
Terphenyl-d14	**84.0**	58.2 - 113		5/15/2015 01:23

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 5/13/2015
Data File: B05142.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB006-050715 (0-4')
Lab Sample ID: 151817-03 **Date Sampled:** 5/7/2015
Matrix: Soil **Date Received:** 5/12/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 9.74	ug/Kg		5/13/2015 14:15
1,1,2,2-Tetrachloroethane	< 9.74	ug/Kg		5/13/2015 14:15
1,1,2-Trichloroethane	< 9.74	ug/Kg		5/13/2015 14:15
1,1-Dichloroethane	< 9.74	ug/Kg		5/13/2015 14:15
1,1-Dichloroethene	< 9.74	ug/Kg		5/13/2015 14:15
1,2,3-Trichlorobenzene	< 24.3	ug/Kg		5/13/2015 14:15
1,2,4-Trichlorobenzene	< 24.3	ug/Kg		5/13/2015 14:15
1,2,4-Trimethylbenzene	< 9.74	ug/Kg		5/13/2015 14:15
1,2-Dibromo-3-Chloropropane	< 48.7	ug/Kg		5/13/2015 14:15
1,2-Dibromoethane	< 9.74	ug/Kg		5/13/2015 14:15
1,2-Dichlorobenzene	< 9.74	ug/Kg		5/13/2015 14:15
1,2-Dichloroethane	< 9.74	ug/Kg		5/13/2015 14:15
1,2-Dichloropropane	< 9.74	ug/Kg		5/13/2015 14:15
1,3,5-Trimethylbenzene	< 9.74	ug/Kg		5/13/2015 14:15
1,3-Dichlorobenzene	< 9.74	ug/Kg		5/13/2015 14:15
1,4-Dichlorobenzene	< 9.74	ug/Kg		5/13/2015 14:15
1,4-dioxane	< 97.4	ug/Kg		5/13/2015 14:15
2-Butanone	< 48.7	ug/Kg		5/13/2015 14:15
2-Hexanone	< 24.3	ug/Kg		5/13/2015 14:15
4-Methyl-2-pentanone	< 24.3	ug/Kg		5/13/2015 14:15
Acetone	< 48.7	ug/Kg		5/13/2015 14:15
Benzene	< 9.74	ug/Kg		5/13/2015 14:15
Bromochloromethane	< 24.3	ug/Kg		5/13/2015 14:15
Bromodichloromethane	< 9.74	ug/Kg		5/13/2015 14:15
Bromoform	< 24.3	ug/Kg		5/13/2015 14:15
Bromomethane	< 9.74	ug/Kg		5/13/2015 14:15
Carbon disulfide	< 9.74	ug/Kg		5/13/2015 14:15
Carbon Tetrachloride	< 9.74	ug/Kg		5/13/2015 14:15
Chlorobenzene	< 9.74	ug/Kg		5/13/2015 14:15

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB006-050715 (0-4')
Lab Sample ID: 151817-03 **Date Sampled:** 5/7/2015
Matrix: Soil **Date Received:** 5/12/2015

Chloroethane	< 9.74	ug/Kg	5/13/2015	14:15
Chloroform	< 9.74	ug/Kg	5/13/2015	14:15
Chloromethane	< 9.74	ug/Kg	5/13/2015	14:15
cis-1,2-Dichloroethene	< 9.74	ug/Kg	5/13/2015	14:15
cis-1,3-Dichloropropene	< 9.74	ug/Kg	5/13/2015	14:15
Cyclohexane	< 48.7	ug/Kg	5/13/2015	14:15
Dibromochloromethane	< 9.74	ug/Kg	5/13/2015	14:15
Dichlorodifluoromethane	< 9.74	ug/Kg	5/13/2015	14:15
Ethylbenzene	< 9.74	ug/Kg	5/13/2015	14:15
Freon 113	< 9.74	ug/Kg	5/13/2015	14:15
Isopropylbenzene	< 9.74	ug/Kg	5/13/2015	14:15
m,p-Xylene	< 9.74	ug/Kg	5/13/2015	14:15
Methyl acetate	< 9.74	ug/Kg	5/13/2015	14:15
Methyl tert-butyl Ether	< 9.74	ug/Kg	5/13/2015	14:15
Methylcyclohexane	< 9.74	ug/Kg	5/13/2015	14:15
Methylene chloride	< 24.3	ug/Kg	5/13/2015	14:15
Naphthalene	< 24.3	ug/Kg	5/13/2015	14:15
n-Butylbenzene	< 9.74	ug/Kg	5/13/2015	14:15
n-Propylbenzene	< 9.74	ug/Kg	5/13/2015	14:15
o-Xylene	< 9.74	ug/Kg	5/13/2015	14:15
p-Isopropyltoluene	< 9.74	ug/Kg	5/13/2015	14:15
sec-Butylbenzene	< 9.74	ug/Kg	5/13/2015	14:15
Styrene	< 24.3	ug/Kg	5/13/2015	14:15
tert-Butylbenzene	< 9.74	ug/Kg	5/13/2015	14:15
Tetrachloroethene	< 9.74	ug/Kg	5/13/2015	14:15
Toluene	< 9.74	ug/Kg	5/13/2015	14:15
trans-1,2-Dichloroethene	< 9.74	ug/Kg	5/13/2015	14:15
trans-1,3-Dichloropropene	< 9.74	ug/Kg	5/13/2015	14:15
Trichloroethene	< 9.74	ug/Kg	5/13/2015	14:15
Trichlorofluoromethane	< 9.74	ug/Kg	5/13/2015	14:15
Vinyl chloride	< 9.74	ug/Kg	5/13/2015	14:15

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB006-050715 (0-4')

Lab Sample ID: 151817-03 **Date Sampled:** 5/7/2015

Matrix: Soil **Date Received:** 5/12/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**108**	80.6 - 125		5/13/2015	14:15
4-Bromofluorobenzene	**94.2**	86.6 - 111		5/13/2015	14:15
Pentafluorobenzene	**98.6**	90.9 - 107		5/13/2015	14:15
Toluene-D8	**96.6**	90.8 - 109		5/13/2015	14:15

Method Reference(s): EPA 8260C
EPA 5035A

Data File: x22788.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB016-050815 (4-8')
Lab Sample ID: 151817-04 **Date Sampled:** 5/8/2015
Matrix: Soil **Date Received:** 5/12/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0400**	mg/Kg		5/18/2015 14:39

Method Reference(s): EPA 7471B
Preparation Date: 5/18/2015
Data File: Hg150518A

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**3.89**	mg/Kg		5/14/2015 19:51
Barium	**29.0**	mg/Kg		5/14/2015 19:51
Cadmium	**0.416**	mg/Kg		5/14/2015 19:51
Chromium	**25.3**	mg/Kg		5/14/2015 19:51
Lead	**40.5**	mg/Kg		5/14/2015 19:51
Selenium	**2.79**	mg/Kg		5/14/2015 19:51
Silver	**1.43**	mg/Kg		5/14/2015 19:51

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 5/14/2015
Data File: 051415c

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0339	mg/Kg		5/19/2015 03:12
PCB-1221	< 0.0339	mg/Kg		5/19/2015 03:12
PCB-1232	< 0.0339	mg/Kg		5/19/2015 03:12
PCB-1242	< 0.0339	mg/Kg		5/19/2015 03:12
PCB-1248	< 0.0339	mg/Kg		5/19/2015 03:12
PCB-1254	< 0.0339	mg/Kg		5/19/2015 03:12
PCB-1260	< 0.0339	mg/Kg		5/19/2015 03:12
PCB-1262	< 0.0339	mg/Kg		5/19/2015 03:12
PCB-1268	< 0.0339	mg/Kg		5/19/2015 03:12

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB016-050815 (4-8')

Lab Sample ID: 151817-04 **Date Sampled:** 5/8/2015

Matrix: Soil **Date Received:** 5/12/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**69.9**	30.5 - 159		5/19/2015 03:12
Tetrachloro-m-xylene	**27.1**	23.2 - 144		5/19/2015 03:12

Method Reference(s): EPA 8082A
EPA 3550C

Preparation Date: 5/14/2015

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.39	ug/Kg		5/15/2015 16:50
4,4-DDE	< 3.39	ug/Kg		5/15/2015 16:50
4,4-DDT	< 3.39	ug/Kg		5/15/2015 16:50
Aldrin	< 3.39	ug/Kg		5/15/2015 16:50
alpha-BHC	< 3.39	ug/Kg		5/15/2015 16:50
beta-BHC	**4.49**	ug/Kg		5/15/2015 16:50
cis-Chlordane	< 3.39	ug/Kg		5/15/2015 16:50
delta-BHC	< 3.39	ug/Kg		5/15/2015 16:50
Dieldrin	< 3.39	ug/Kg		5/15/2015 16:50
Endosulfan I	< 3.39	ug/Kg		5/15/2015 16:50
Endosulfan II	< 3.39	ug/Kg		5/15/2015 16:50
Endosulfan Sulfate	< 3.39	ug/Kg	M	5/15/2015 16:50
Endrin	< 3.39	ug/Kg		5/15/2015 16:50
Endrin Aldehyde	< 3.39	ug/Kg		5/15/2015 16:50
Endrin Ketone	< 3.39	ug/Kg		5/15/2015 16:50
gamma-BHC (Lindane)	< 3.39	ug/Kg		5/15/2015 16:50
Heptachlor	< 3.39	ug/Kg		5/15/2015 16:50
Heptachlor Epoxide	< 3.39	ug/Kg		5/15/2015 16:50
Methoxychlor	**4.10**	ug/Kg	P	5/15/2015 16:50
Toxaphene	< 33.9	ug/Kg		5/15/2015 16:50
trans-Chlordane	< 3.39	ug/Kg	M	5/15/2015 16:50

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB016-050815 (4-8')
Lab Sample ID: 151817-04 **Date Sampled:** 5/8/2015
Matrix: Soil **Date Received:** 5/12/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**151**	32.1 - 117.1	*	5/15/2015 16:50
Tetrachloro-m-xylene (1)	**43.3**	28.3 - 115.3		5/15/2015 16:50

Method Reference(s): EPA 8081B
EPA 3550C
Preparation Date: 5/14/2015

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 332	ug/Kg		5/15/2015 01:50
Acenaphthylene	< 332	ug/Kg		5/15/2015 01:50
Anthracene	< 332	ug/Kg		5/15/2015 01:50
Benzo (a) anthracene	**1080**	ug/Kg		5/15/2015 01:50
Benzo (a) pyrene	**1900**	ug/Kg		5/15/2015 01:50
Benzo (b) fluoranthene	**2110**	ug/Kg		5/15/2015 01:50
Benzo (g,h,i) perylene	**1450**	ug/Kg		5/15/2015 01:50
Benzo (k) fluoranthene	**1450**	ug/Kg		5/15/2015 01:50
Chrysene	**1200**	ug/Kg		5/15/2015 01:50
Dibenz (a,h) anthracene	**796**	ug/Kg		5/15/2015 01:50
Fluoranthene	**820**	ug/Kg		5/15/2015 01:50
Fluorene	< 332	ug/Kg		5/15/2015 01:50
Indeno (1,2,3-cd) pyrene	**1970**	ug/Kg		5/15/2015 01:50
Naphthalene	< 332	ug/Kg		5/15/2015 01:50
Phenanthrene	**399**	ug/Kg		5/15/2015 01:50
Pyrene	**730**	ug/Kg		5/15/2015 01:50

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**56.5**	35.9 - 103		5/15/2015 01:50
Nitrobenzene-d5	**54.0**	37.2 - 90.6		5/15/2015 01:50
Terphenyl-d14	**84.5**	58.2 - 113		5/15/2015 01:50

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 5/13/2015
Data File: B05143.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB016-050815 (4-8')
Lab Sample ID: 151817-04 **Date Sampled:** 5/8/2015
Matrix: Soil **Date Received:** 5/12/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 8.91	ug/Kg		5/13/2015 14:39
1,1,2,2-Tetrachloroethane	< 8.91	ug/Kg		5/13/2015 14:39
1,1,2-Trichloroethane	< 8.91	ug/Kg		5/13/2015 14:39
1,1-Dichloroethane	< 8.91	ug/Kg		5/13/2015 14:39
1,1-Dichloroethene	< 8.91	ug/Kg		5/13/2015 14:39
1,2,3-Trichlorobenzene	< 22.3	ug/Kg		5/13/2015 14:39
1,2,4-Trichlorobenzene	< 22.3	ug/Kg		5/13/2015 14:39
1,2,4-Trimethylbenzene	< 8.91	ug/Kg		5/13/2015 14:39
1,2-Dibromo-3-Chloropropane	< 44.5	ug/Kg		5/13/2015 14:39
1,2-Dibromoethane	< 8.91	ug/Kg		5/13/2015 14:39
1,2-Dichlorobenzene	< 8.91	ug/Kg		5/13/2015 14:39
1,2-Dichloroethane	< 8.91	ug/Kg		5/13/2015 14:39
1,2-Dichloropropane	< 8.91	ug/Kg		5/13/2015 14:39
1,3,5-Trimethylbenzene	< 8.91	ug/Kg		5/13/2015 14:39
1,3-Dichlorobenzene	< 8.91	ug/Kg		5/13/2015 14:39
1,4-Dichlorobenzene	< 8.91	ug/Kg		5/13/2015 14:39
1,4-dioxane	< 89.1	ug/Kg		5/13/2015 14:39
2-Butanone	< 44.5	ug/Kg		5/13/2015 14:39
2-Hexanone	< 22.3	ug/Kg		5/13/2015 14:39
4-Methyl-2-pentanone	< 22.3	ug/Kg		5/13/2015 14:39
Acetone	< 44.5	ug/Kg		5/13/2015 14:39
Benzene	< 8.91	ug/Kg		5/13/2015 14:39
Bromochloromethane	< 22.3	ug/Kg		5/13/2015 14:39
Bromodichloromethane	< 8.91	ug/Kg		5/13/2015 14:39
Bromoform	< 22.3	ug/Kg		5/13/2015 14:39
Bromomethane	< 8.91	ug/Kg		5/13/2015 14:39
Carbon disulfide	< 8.91	ug/Kg		5/13/2015 14:39
Carbon Tetrachloride	< 8.91	ug/Kg		5/13/2015 14:39
Chlorobenzene	< 8.91	ug/Kg		5/13/2015 14:39

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB016-050815 (4-8')
Lab Sample ID: 151817-04 **Date Sampled:** 5/8/2015
Matrix: Soil **Date Received:** 5/12/2015

Chloroethane	< 8.91	ug/Kg	5/13/2015	14:39
Chloroform	< 8.91	ug/Kg	5/13/2015	14:39
Chloromethane	< 8.91	ug/Kg	5/13/2015	14:39
cis-1,2-Dichloroethene	< 8.91	ug/Kg	5/13/2015	14:39
cis-1,3-Dichloropropene	< 8.91	ug/Kg	5/13/2015	14:39
Cyclohexane	< 44.5	ug/Kg	5/13/2015	14:39
Dibromochloromethane	< 8.91	ug/Kg	5/13/2015	14:39
Dichlorodifluoromethane	< 8.91	ug/Kg	5/13/2015	14:39
Ethylbenzene	< 8.91	ug/Kg	5/13/2015	14:39
Freon 113	< 8.91	ug/Kg	5/13/2015	14:39
Isopropylbenzene	< 8.91	ug/Kg	5/13/2015	14:39
m,p-Xylene	< 8.91	ug/Kg	5/13/2015	14:39
Methyl acetate	< 8.91	ug/Kg	5/13/2015	14:39
Methyl tert-butyl Ether	< 8.91	ug/Kg	5/13/2015	14:39
Methylcyclohexane	< 8.91	ug/Kg	5/13/2015	14:39
Methylene chloride	< 22.3	ug/Kg	5/13/2015	14:39
Naphthalene	< 22.3	ug/Kg	5/13/2015	14:39
n-Butylbenzene	< 8.91	ug/Kg	5/13/2015	14:39
n-Propylbenzene	< 8.91	ug/Kg	5/13/2015	14:39
o-Xylene	< 8.91	ug/Kg	5/13/2015	14:39
p-Isopropyltoluene	< 8.91	ug/Kg	5/13/2015	14:39
sec-Butylbenzene	< 8.91	ug/Kg	5/13/2015	14:39
Styrene	< 22.3	ug/Kg	5/13/2015	14:39
tert-Butylbenzene	< 8.91	ug/Kg	5/13/2015	14:39
Tetrachloroethene	< 8.91	ug/Kg	5/13/2015	14:39
Toluene	< 8.91	ug/Kg	5/13/2015	14:39
trans-1,2-Dichloroethene	< 8.91	ug/Kg	5/13/2015	14:39
trans-1,3-Dichloropropene	< 8.91	ug/Kg	5/13/2015	14:39
Trichloroethene	< 8.91	ug/Kg	5/13/2015	14:39
Trichlorofluoromethane	< 8.91	ug/Kg	5/13/2015	14:39
Vinyl chloride	< 8.91	ug/Kg	5/13/2015	14:39

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB016-050815 (4-8')

Lab Sample ID: 151817-04 **Date Sampled:** 5/8/2015

Matrix: Soil **Date Received:** 5/12/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**106**	80.6 - 125		5/13/2015	14:39
4-Bromofluorobenzene	**91.0**	86.6 - 111		5/13/2015	14:39
Pentafluorobenzene	**100**	90.9 - 107		5/13/2015	14:39
Toluene-D8	**97.3**	90.8 - 109		5/13/2015	14:39

Method Reference(s): EPA 8260C
EPA 5035A

Data File: x22789.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB015-050815 (4-9')
Lab Sample ID: 151817-05 **Date Sampled:** 5/8/2015
Matrix: Soil **Date Received:** 5/12/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0238**	mg/Kg		5/18/2015 14:42

Method Reference(s): EPA 7471B
Preparation Date: 5/18/2015
Data File: Hg150518A

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**8.53**	mg/Kg		5/14/2015 19:55
Barium	**70.3**	mg/Kg		5/14/2015 19:55
Cadmium	**0.687**	mg/Kg		5/14/2015 19:55
Chromium	**16.5**	mg/Kg		5/14/2015 19:55
Lead	**65.3**	mg/Kg		5/14/2015 19:55
Selenium	**5.03**	mg/Kg		5/14/2015 19:55
Silver	< 0.638	mg/Kg		5/14/2015 19:55

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 5/14/2015
Data File: 051415c

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0341	mg/Kg		5/15/2015 00:15
PCB-1221	< 0.0341	mg/Kg		5/15/2015 00:15
PCB-1232	< 0.0341	mg/Kg		5/15/2015 00:15
PCB-1242	< 0.0341	mg/Kg		5/15/2015 00:15
PCB-1248	< 0.0341	mg/Kg		5/15/2015 00:15
PCB-1254	< 0.0341	mg/Kg		5/15/2015 00:15
PCB-1260	< 0.0341	mg/Kg		5/15/2015 00:15
PCB-1262	< 0.0341	mg/Kg		5/15/2015 00:15
PCB-1268	< 0.0341	mg/Kg		5/15/2015 00:15

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB015-050815 (4-9')

Lab Sample ID: 151817-05 **Date Sampled:** 5/8/2015

Matrix: Soil **Date Received:** 5/12/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**65.1**	30.5 - 159		5/15/2015 00:15
Tetrachloro-m-xylene	**33.2**	23.2 - 144		5/15/2015 00:15

Method Reference(s): EPA 8082A
EPA 3550C

Preparation Date: 5/14/2015

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.41	ug/Kg		5/14/2015 16:32
4,4-DDE	< 3.41	ug/Kg		5/14/2015 16:32
4,4-DDT	< 3.41	ug/Kg		5/14/2015 16:32
Aldrin	< 3.41	ug/Kg		5/14/2015 16:32
alpha-BHC	< 3.41	ug/Kg		5/14/2015 16:32
beta-BHC	< 3.41	ug/Kg		5/14/2015 16:32
cis-Chlordane	< 3.41	ug/Kg		5/14/2015 16:32
delta-BHC	< 3.41	ug/Kg		5/14/2015 16:32
Dieldrin	< 3.41	ug/Kg		5/14/2015 16:32
Endosulfan I	< 3.41	ug/Kg		5/14/2015 16:32
Endosulfan II	< 3.41	ug/Kg		5/14/2015 16:32
Endosulfan Sulfate	< 3.41	ug/Kg		5/14/2015 16:32
Endrin	< 3.41	ug/Kg		5/14/2015 16:32
Endrin Aldehyde	< 3.41	ug/Kg		5/14/2015 16:32
Endrin Ketone	< 3.41	ug/Kg		5/14/2015 16:32
gamma-BHC (Lindane)	< 3.41	ug/Kg		5/14/2015 16:32
Heptachlor	< 3.41	ug/Kg		5/14/2015 16:32
Heptachlor Epoxide	< 3.41	ug/Kg		5/14/2015 16:32
Methoxychlor	< 3.41	ug/Kg		5/14/2015 16:32
Toxaphene	< 34.1	ug/Kg		5/14/2015 16:32
trans-Chlordane	< 3.41	ug/Kg		5/14/2015 16:32

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB015-050815 (4-9')
Lab Sample ID: 151817-05 **Date Sampled:** 5/8/2015
Matrix: Soil **Date Received:** 5/12/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**63.8**	32.1 - 117.1		5/14/2015 16:32
Tetrachloro-m-xylene (1)	**39.6**	28.3 - 115.3		5/14/2015 16:32

Method Reference(s): EPA 8081B
EPA 3550C
Preparation Date: 5/14/2015

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 330	ug/Kg		5/15/2015 02:17
Acenaphthylene	< 330	ug/Kg		5/15/2015 02:17
Anthracene	< 330	ug/Kg		5/15/2015 02:17
Benzo (a) anthracene	< 330	ug/Kg		5/15/2015 02:17
Benzo (a) pyrene	< 330	ug/Kg		5/15/2015 02:17
Benzo (b) fluoranthene	< 330	ug/Kg		5/15/2015 02:17
Benzo (g,h,i) perylene	< 330	ug/Kg		5/15/2015 02:17
Benzo (k) fluoranthene	< 330	ug/Kg		5/15/2015 02:17
Chrysene	< 330	ug/Kg		5/15/2015 02:17
Dibenz (a,h) anthracene	< 330	ug/Kg		5/15/2015 02:17
Fluoranthene	< 330	ug/Kg		5/15/2015 02:17
Fluorene	< 330	ug/Kg		5/15/2015 02:17
Indeno (1,2,3-cd) pyrene	< 330	ug/Kg		5/15/2015 02:17
Naphthalene	< 330	ug/Kg		5/15/2015 02:17
Phenanthrene	< 330	ug/Kg		5/15/2015 02:17
Pyrene	< 330	ug/Kg		5/15/2015 02:17

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**40.9**	35.9 - 103		5/15/2015 02:17
Nitrobenzene-d5	**40.6**	37.2 - 90.6		5/15/2015 02:17
Terphenyl-d14	**74.4**	58.2 - 113		5/15/2015 02:17

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 5/13/2015
Data File: B05144.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB015-050815 (4-9')
Lab Sample ID: 151817-05 **Date Sampled:** 5/8/2015
Matrix: Soil **Date Received:** 5/12/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 7.08	ug/Kg		5/13/2015 15:03
1,1,2,2-Tetrachloroethane	< 7.08	ug/Kg		5/13/2015 15:03
1,1,2-Trichloroethane	< 7.08	ug/Kg		5/13/2015 15:03
1,1-Dichloroethane	< 7.08	ug/Kg		5/13/2015 15:03
1,1-Dichloroethene	< 7.08	ug/Kg		5/13/2015 15:03
1,2,3-Trichlorobenzene	< 17.7	ug/Kg		5/13/2015 15:03
1,2,4-Trichlorobenzene	< 17.7	ug/Kg		5/13/2015 15:03
1,2,4-Trimethylbenzene	< 7.08	ug/Kg		5/13/2015 15:03
1,2-Dibromo-3-Chloropropane	< 35.4	ug/Kg		5/13/2015 15:03
1,2-Dibromoethane	< 7.08	ug/Kg		5/13/2015 15:03
1,2-Dichlorobenzene	< 7.08	ug/Kg		5/13/2015 15:03
1,2-Dichloroethane	< 7.08	ug/Kg		5/13/2015 15:03
1,2-Dichloropropane	< 7.08	ug/Kg		5/13/2015 15:03
1,3,5-Trimethylbenzene	< 7.08	ug/Kg		5/13/2015 15:03
1,3-Dichlorobenzene	< 7.08	ug/Kg		5/13/2015 15:03
1,4-Dichlorobenzene	< 7.08	ug/Kg		5/13/2015 15:03
1,4-dioxane	< 70.8	ug/Kg		5/13/2015 15:03
2-Butanone	< 35.4	ug/Kg		5/13/2015 15:03
2-Hexanone	< 17.7	ug/Kg		5/13/2015 15:03
4-Methyl-2-pentanone	< 17.7	ug/Kg		5/13/2015 15:03
Acetone	< 35.4	ug/Kg		5/13/2015 15:03
Benzene	< 7.08	ug/Kg		5/13/2015 15:03
Bromochloromethane	< 17.7	ug/Kg		5/13/2015 15:03
Bromodichloromethane	< 7.08	ug/Kg		5/13/2015 15:03
Bromoform	< 17.7	ug/Kg		5/13/2015 15:03
Bromomethane	< 7.08	ug/Kg		5/13/2015 15:03
Carbon disulfide	< 7.08	ug/Kg		5/13/2015 15:03
Carbon Tetrachloride	< 7.08	ug/Kg		5/13/2015 15:03
Chlorobenzene	< 7.08	ug/Kg		5/13/2015 15:03

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB015-050815 (4-9')
Lab Sample ID: 151817-05 **Date Sampled:** 5/8/2015
Matrix: Soil **Date Received:** 5/12/2015

Chloroethane	< 7.08	ug/Kg	5/13/2015	15:03
Chloroform	< 7.08	ug/Kg	5/13/2015	15:03
Chloromethane	< 7.08	ug/Kg	5/13/2015	15:03
cis-1,2-Dichloroethene	< 7.08	ug/Kg	5/13/2015	15:03
cis-1,3-Dichloropropene	< 7.08	ug/Kg	5/13/2015	15:03
Cyclohexane	< 35.4	ug/Kg	5/13/2015	15:03
Dibromochloromethane	< 7.08	ug/Kg	5/13/2015	15:03
Dichlorodifluoromethane	< 7.08	ug/Kg	5/13/2015	15:03
Ethylbenzene	< 7.08	ug/Kg	5/13/2015	15:03
Freon 113	< 7.08	ug/Kg	5/13/2015	15:03
Isopropylbenzene	< 7.08	ug/Kg	5/13/2015	15:03
m,p-Xylene	< 7.08	ug/Kg	5/13/2015	15:03
Methyl acetate	< 7.08	ug/Kg	5/13/2015	15:03
Methyl tert-butyl Ether	< 7.08	ug/Kg	5/13/2015	15:03
Methylcyclohexane	< 7.08	ug/Kg	5/13/2015	15:03
Methylene chloride	< 17.7	ug/Kg	5/13/2015	15:03
Naphthalene	< 17.7	ug/Kg	5/13/2015	15:03
n-Butylbenzene	< 7.08	ug/Kg	5/13/2015	15:03
n-Propylbenzene	< 7.08	ug/Kg	5/13/2015	15:03
o-Xylene	< 7.08	ug/Kg	5/13/2015	15:03
p-Isopropyltoluene	< 7.08	ug/Kg	5/13/2015	15:03
sec-Butylbenzene	< 7.08	ug/Kg	5/13/2015	15:03
Styrene	< 17.7	ug/Kg	5/13/2015	15:03
tert-Butylbenzene	< 7.08	ug/Kg	5/13/2015	15:03
Tetrachloroethene	< 7.08	ug/Kg	5/13/2015	15:03
Toluene	< 7.08	ug/Kg	5/13/2015	15:03
trans-1,2-Dichloroethene	< 7.08	ug/Kg	5/13/2015	15:03
trans-1,3-Dichloropropene	< 7.08	ug/Kg	5/13/2015	15:03
Trichloroethene	< 7.08	ug/Kg	5/13/2015	15:03
Trichlorofluoromethane	< 7.08	ug/Kg	5/13/2015	15:03
Vinyl chloride	< 7.08	ug/Kg	5/13/2015	15:03

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB015-050815 (4-9')

Lab Sample ID: 151817-05 **Date Sampled:** 5/8/2015

Matrix: Soil **Date Received:** 5/12/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**109**	80.6 - 125		5/13/2015	15:03
4-Bromofluorobenzene	**94.8**	86.6 - 111		5/13/2015	15:03
Pentafluorobenzene	**101**	90.9 - 107		5/13/2015	15:03
Toluene-D8	**98.9**	90.8 - 109		5/13/2015	15:03

Method Reference(s): EPA 8260C
EPA 5035A

Data File: x22790.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier:	NA-SB018-050815 (4-8')		
Lab Sample ID:	151817-06	**Date Sampled:**	5/8/2015
Matrix:	Soil	**Date Received:**	5/12/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0579**	mg/Kg		5/18/2015 15:45

Method Reference(s): EPA 7471B
Preparation Date: 5/18/2015
Data File: Hg150518A

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**12.8**	mg/Kg		5/14/2015 19:59
Barium	**78.8**	mg/Kg		5/14/2015 19:59
Cadmium	**0.809**	mg/Kg		5/14/2015 19:59
Chromium	**17.3**	mg/Kg		5/14/2015 19:59
Lead	**227**	mg/Kg		5/14/2015 19:59
Selenium	**2.91**	mg/Kg		5/18/2015 15:48
Silver	< 0.591	mg/Kg		5/14/2015 19:59

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 5/14/2015
Data File: 051415c

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0350	mg/Kg		5/15/2015 00:38
PCB-1221	< 0.0350	mg/Kg		5/15/2015 00:38
PCB-1232	< 0.0350	mg/Kg		5/15/2015 00:38
PCB-1242	< 0.0350	mg/Kg		5/15/2015 00:38
PCB-1248	< 0.0350	mg/Kg		5/15/2015 00:38
PCB-1254	< 0.0350	mg/Kg		5/15/2015 00:38
PCB-1260	< 0.0350	mg/Kg		5/15/2015 00:38
PCB-1262	< 0.0350	mg/Kg		5/15/2015 00:38
PCB-1268	< 0.0350	mg/Kg		5/15/2015 00:38

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB018-050815 (4-8')

Lab Sample ID: 151817-06 **Date Sampled:** 5/8/2015

Matrix: Soil **Date Received:** 5/12/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**63.9**	30.5 - 159		5/15/2015 00:38
Tetrachloro-m-xylene	**48.1**	23.2 - 144		5/15/2015 00:38

Method Reference(s): EPA 8082A
EPA 3550C

Preparation Date: 5/14/2015

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	**4.94**	ug/Kg		5/14/2015 16:48
4,4-DDE	< 3.50	ug/Kg		5/14/2015 16:48
4,4-DDT	**3.76**	ug/Kg	P	5/14/2015 16:48
Aldrin	< 3.50	ug/Kg		5/14/2015 16:48
alpha-BHC	< 3.50	ug/Kg		5/14/2015 16:48
beta-BHC	< 3.50	ug/Kg		5/14/2015 16:48
cis-Chlordane	< 3.50	ug/Kg		5/14/2015 16:48
delta-BHC	< 3.50	ug/Kg		5/14/2015 16:48
Dieldrin	< 3.50	ug/Kg		5/14/2015 16:48
Endosulfan I	< 3.50	ug/Kg		5/14/2015 16:48
Endosulfan II	< 3.50	ug/Kg		5/14/2015 16:48
Endosulfan Sulfate	< 3.50	ug/Kg		5/14/2015 16:48
Endrin	< 3.50	ug/Kg		5/14/2015 16:48
Endrin Aldehyde	**4.32**	ug/Kg		5/14/2015 16:48
Endrin Ketone	**8.28**	ug/Kg	P	5/14/2015 16:48
gamma-BHC (Lindane)	< 3.50	ug/Kg		5/14/2015 16:48
Heptachlor	< 3.50	ug/Kg		5/14/2015 16:48
Heptachlor Epoxide	< 3.50	ug/Kg		5/14/2015 16:48
Methoxychlor	**10.7**	ug/Kg	P	5/14/2015 16:48
Toxaphene	< 35.0	ug/Kg		5/14/2015 16:48
trans-Chlordane	< 3.50	ug/Kg		5/14/2015 16:48

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB018-050815 (4-8')

Lab Sample ID: 151817-06 **Date Sampled:** 5/8/2015

Matrix: Soil **Date Received:** 5/12/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**374**	32.1 - 117.1	*	5/14/2015 16:48
Tetrachloro-m-xylene (1)	**46.1**	28.3 - 115.3		5/14/2015 16:48

Method Reference(s): EPA 8081B
EPA 3550C
Preparation Date: 5/14/2015

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 338	ug/Kg		5/15/2015 02:44
Acenaphthylene	**506**	ug/Kg		5/15/2015 02:44
Anthracene	**544**	ug/Kg		5/15/2015 02:44
Benzo (a) anthracene	**2340**	ug/Kg		5/15/2015 02:44
Benzo (a) pyrene	**2370**	ug/Kg		5/15/2015 02:44
Benzo (b) fluoranthene	**2940**	ug/Kg		5/15/2015 02:44
Benzo (g,h,i) perylene	**1780**	ug/Kg		5/15/2015 02:44
Benzo (k) fluoranthene	**1480**	ug/Kg		5/15/2015 02:44
Chrysene	**2310**	ug/Kg		5/15/2015 02:44
Dibenz (a,h) anthracene	**691**	ug/Kg		5/15/2015 02:44
Fluoranthene	**4050**	ug/Kg		5/15/2015 02:44
Fluorene	< 338	ug/Kg		5/15/2015 02:44
Indeno (1,2,3-cd) pyrene	**2170**	ug/Kg		5/15/2015 02:44
Naphthalene	< 338	ug/Kg		5/15/2015 02:44
Phenanthrene	**1440**	ug/Kg		5/15/2015 02:44
Pyrene	**3150**	ug/Kg		5/15/2015 02:44

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**62.0**	35.9 - 103		5/15/2015 02:44
Nitrobenzene-d5	**51.8**	37.2 - 90.6		5/15/2015 02:44
Terphenyl-d14	**80.9**	58.2 - 113		5/15/2015 02:44

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 5/13/2015
Data File: B05145.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB018-050815 (4-8')
Lab Sample ID: 151817-06 **Date Sampled:** 5/8/2015
Matrix: Soil **Date Received:** 5/12/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 8.59	ug/Kg		5/13/2015 15:27
1,1,2,2-Tetrachloroethane	< 8.59	ug/Kg		5/13/2015 15:27
1,1,2-Trichloroethane	< 8.59	ug/Kg		5/13/2015 15:27
1,1-Dichloroethane	< 8.59	ug/Kg		5/13/2015 15:27
1,1-Dichloroethene	< 8.59	ug/Kg		5/13/2015 15:27
1,2,3-Trichlorobenzene	< 21.5	ug/Kg		5/13/2015 15:27
1,2,4-Trichlorobenzene	< 21.5	ug/Kg		5/13/2015 15:27
1,2,4-Trimethylbenzene	< 8.59	ug/Kg		5/13/2015 15:27
1,2-Dibromo-3-Chloropropane	< 43.0	ug/Kg		5/13/2015 15:27
1,2-Dibromoethane	< 8.59	ug/Kg		5/13/2015 15:27
1,2-Dichlorobenzene	< 8.59	ug/Kg		5/13/2015 15:27
1,2-Dichloroethane	< 8.59	ug/Kg		5/13/2015 15:27
1,2-Dichloropropane	< 8.59	ug/Kg		5/13/2015 15:27
1,3,5-Trimethylbenzene	< 8.59	ug/Kg		5/13/2015 15:27
1,3-Dichlorobenzene	< 8.59	ug/Kg		5/13/2015 15:27
1,4-Dichlorobenzene	< 8.59	ug/Kg		5/13/2015 15:27
1,4-dioxane	< 85.9	ug/Kg		5/13/2015 15:27
2-Butanone	< 43.0	ug/Kg		5/13/2015 15:27
2-Hexanone	< 21.5	ug/Kg		5/13/2015 15:27
4-Methyl-2-pentanone	< 21.5	ug/Kg		5/13/2015 15:27
Acetone	< 43.0	ug/Kg		5/13/2015 15:27
Benzene	< 8.59	ug/Kg		5/13/2015 15:27
Bromochloromethane	< 21.5	ug/Kg		5/13/2015 15:27
Bromodichloromethane	< 8.59	ug/Kg		5/13/2015 15:27
Bromoform	< 21.5	ug/Kg		5/13/2015 15:27
Bromomethane	< 8.59	ug/Kg		5/13/2015 15:27
Carbon disulfide	< 8.59	ug/Kg		5/13/2015 15:27
Carbon Tetrachloride	< 8.59	ug/Kg		5/13/2015 15:27
Chlorobenzene	< 8.59	ug/Kg		5/13/2015 15:27

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB018-050815 (4-8')
Lab Sample ID: 151817-06 **Date Sampled:** 5/8/2015
Matrix: Soil **Date Received:** 5/12/2015

Chloroethane	< 8.59	ug/Kg	5/13/2015	15:27
Chloroform	< 8.59	ug/Kg	5/13/2015	15:27
Chloromethane	< 8.59	ug/Kg	5/13/2015	15:27
cis-1,2-Dichloroethene	< 8.59	ug/Kg	5/13/2015	15:27
cis-1,3-Dichloropropene	< 8.59	ug/Kg	5/13/2015	15:27
Cyclohexane	< 43.0	ug/Kg	5/13/2015	15:27
Dibromochloromethane	< 8.59	ug/Kg	5/13/2015	15:27
Dichlorodifluoromethane	< 8.59	ug/Kg	5/13/2015	15:27
Ethylbenzene	< 8.59	ug/Kg	5/13/2015	15:27
Freon 113	< 8.59	ug/Kg	5/13/2015	15:27
Isopropylbenzene	< 8.59	ug/Kg	5/13/2015	15:27
m,p-Xylene	< 8.59	ug/Kg	5/13/2015	15:27
Methyl acetate	< 8.59	ug/Kg	5/13/2015	15:27
Methyl tert-butyl Ether	< 8.59	ug/Kg	5/13/2015	15:27
Methylcyclohexane	< 8.59	ug/Kg	5/13/2015	15:27
Methylene chloride	< 21.5	ug/Kg	5/13/2015	15:27
Naphthalene	< 21.5	ug/Kg	5/13/2015	15:27
n-Butylbenzene	< 8.59	ug/Kg	5/13/2015	15:27
n-Propylbenzene	< 8.59	ug/Kg	5/13/2015	15:27
o-Xylene	< 8.59	ug/Kg	5/13/2015	15:27
p-Isopropyltoluene	< 8.59	ug/Kg	5/13/2015	15:27
sec-Butylbenzene	< 8.59	ug/Kg	5/13/2015	15:27
Styrene	< 21.5	ug/Kg	5/13/2015	15:27
tert-Butylbenzene	< 8.59	ug/Kg	5/13/2015	15:27
Tetrachloroethene	< 8.59	ug/Kg	5/13/2015	15:27
Toluene	< 8.59	ug/Kg	5/13/2015	15:27
trans-1,2-Dichloroethene	< 8.59	ug/Kg	5/13/2015	15:27
trans-1,3-Dichloropropene	< 8.59	ug/Kg	5/13/2015	15:27
Trichloroethene	< 8.59	ug/Kg	5/13/2015	15:27
Trichlorofluoromethane	< 8.59	ug/Kg	5/13/2015	15:27
Vinyl chloride	< 8.59	ug/Kg	5/13/2015	15:27

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151817

Client: **Fisher Associates**

Project Reference: Northland Ave

Sample Identifier: NA-SB018-050815 (4-8')

Lab Sample ID: 151817-06 **Date Sampled:** 5/8/2015

Matrix: Soil **Date Received:** 5/12/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**105**	80.6 - 125		5/13/2015	15:27
4-Bromofluorobenzene	**88.0**	86.6 - 111		5/13/2015	15:27
Pentafluorobenzene	**99.9**	90.9 - 107		5/13/2015	15:27
Toluene-D8	**96.2**	90.8 - 109		5/13/2015	15:27

Method Reference(s): EPA 8260C
EPA 5035A

Data File: x22791.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	Fisher Associates	CLIENT:	Same	151817
ADDRESS:	135 Culver Road	ADDRESS:		Quotation #:
CITY:	Rochester STATE: NY ZIP: 14623	CITY: STATE: ZIP:		Email: jmoore@fisherassoc.com
PHONE:	585 334-1310	PHONE:		
ATTN:	Jim Moore	ATTN:		

PROJECT REFERENCE: NORTHLAND AVE

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	VOCs (CP-51)	SVOCs (CP-51)	RCRA METALS	PESTICIDES	PCBs	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	5/7/15	1620		X	NA-SB004-050715(0-4')	SO	2	X	X	X	X	X		01
2	5/7/15	1700		X	NA-SB010-050715(4-8')	SO	2	X	X	X	X	X		02
3	5/7/15	1330		X	NA-SB006-050715(0-4')	SO	2	X	X	X	X	X		03
4	5/8/15	1230		X	NA-SB016-050815(4-8')	SO	2	X	X	X	X	X		04
5	5/8/15	1130		X	NA-SB015-050815(4-8')	SO	2	X	X	X	X	X		05
6	5/8/15	1400		X	NA-SB019-050815(4-8')	SO	2	X	X	X	X	X		06
7														
8														
9														
10													6°C iced 5/11/15 1632 hrs	

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	
Rush 2 day		Category B			
Rush 1 day					
Other (please indicate)		Other (please indicate)		Other EDD (please indicate)	

Sampled By:	Jim Moore	5/8/15 Date/Time	Total Cost:
Relinquished By:		5/8/15 1430 Date/Time	
Received By:		5/11/15 Date/Time	P.I.F.
Received @ Lab By:	Mol Wall	5/12/15 Date/Time 1157	

Chain of Custody Supplement

Client: Fisher **Completed by:** Mollgaard

Lab Project ID: 151817 **Date:** 5/12/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt Yes	No	N/A
Container Type	X	X 5035	
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X 6°C iced 5/11/15 1632		X met
Comments			
Sufficient Sample Quantity	X		
Comments			

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Fisher Associates

For Lab Project ID

152324

Referencing

154034, Northland Ave (683) Bldg A

Prepared

Thursday, June 18, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

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This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP1-L-060915
Lab Sample ID: 152324-01 **Date Sampled:** 6/9/2015
Matrix: Oil **Date Received:** 6/10/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Barium	< 5.00	mg/Kg		6/16/2015 19:53
Cadmium	< 0.250	mg/Kg		6/16/2015 19:53
Chromium	< 0.500	mg/Kg		6/16/2015 19:53
Lead	< 0.500	mg/Kg		6/16/2015 19:53

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 6/12/2015
Data File: 061615b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.962	mg/Kg		6/17/2015 12:40
PCB-1221	< 0.962	mg/Kg		6/17/2015 12:40
PCB-1232	< 0.962	mg/Kg		6/17/2015 12:40
PCB-1242	< 0.962	mg/Kg		6/17/2015 12:40
PCB-1248	< 0.962	mg/Kg		6/17/2015 12:40
PCB-1254	< 0.962	mg/Kg		6/17/2015 12:40
PCB-1260	< 0.962	mg/Kg		6/17/2015 12:40
PCB-1262	< 0.962	mg/Kg		6/17/2015 12:40
PCB-1268	< 0.962	mg/Kg		6/17/2015 12:40

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**86.3**	15.9 - 131		6/17/2015 12:40
Tetrachloro-m-xylene	**85.9**	30.3 - 87.5		6/17/2015 12:40

Method Reference(s): EPA 8082A
EPA 3580A
Preparation Date: 6/15/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 971	ug/Kg		6/15/2015 20:19
1,1,2,2-Tetrachloroethane	< 971	ug/Kg		6/15/2015 20:19

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier:	NA-AP1-L-060915		
Lab Sample ID:	152324-01	**Date Sampled:**	6/9/2015
Matrix:	Oil	**Date Received:**	6/10/2015

1,1,2-Trichloroethane	< 971	ug/Kg	6/15/2015 20:19
1,1-Dichloroethane	< 971	ug/Kg	6/15/2015 20:19
1,1-Dichloroethene	< 971	ug/Kg	6/15/2015 20:19
1,2,3-Trichlorobenzene	< 2430	ug/Kg	6/15/2015 20:19
1,2,4-Trichlorobenzene	< 2430	ug/Kg	6/15/2015 20:19
1,2-Dibromo-3-Chloropropane	< 4860	ug/Kg	6/15/2015 20:19
1,2-Dibromoethane	< 971	ug/Kg	6/15/2015 20:19
1,2-Dichlorobenzene	< 971	ug/Kg	6/15/2015 20:19
1,2-Dichloroethane	< 971	ug/Kg	6/15/2015 20:19
1,2-Dichloropropane	< 971	ug/Kg	6/15/2015 20:19
1,3-Dichlorobenzene	< 971	ug/Kg	6/15/2015 20:19
1,4-Dichlorobenzene	< 971	ug/Kg	6/15/2015 20:19
1,4-dioxane	< 9710	ug/Kg	6/15/2015 20:19
2-Butanone	< 4860	ug/Kg	6/15/2015 20:19
2-Hexanone	< 2430	ug/Kg	6/15/2015 20:19
4-Methyl-2-pentanone	< 2430	ug/Kg	6/15/2015 20:19
Acetone	< 4860	ug/Kg	6/15/2015 20:19
Benzene	< 971	ug/Kg	6/15/2015 20:19
Bromochloromethane	< 2430	ug/Kg	6/15/2015 20:19
Bromodichloromethane	< 971	ug/Kg	6/15/2015 20:19
Bromoform	< 2430	ug/Kg	6/15/2015 20:19
Bromomethane	< 971	ug/Kg	6/15/2015 20:19
Carbon disulfide	< 971	ug/Kg	6/15/2015 20:19
Carbon Tetrachloride	< 971	ug/Kg	6/15/2015 20:19
Chlorobenzene	< 971	ug/Kg	6/15/2015 20:19
Chloroethane	< 971	ug/Kg	6/15/2015 20:19
Chloroform	< 971	ug/Kg	6/15/2015 20:19
Chloromethane	< 971	ug/Kg	6/15/2015 20:19
cis-1,2-Dichloroethene	< 971	ug/Kg	6/15/2015 20:19
cis-1,3-Dichloropropene	< 971	ug/Kg	6/15/2015 20:19
Cyclohexane	< 4860	ug/Kg	6/15/2015 20:19
Dibromochloromethane	< 971	ug/Kg	6/15/2015 20:19

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP1-L-060915
Lab Sample ID: 152324-01 **Date Sampled:** 6/9/2015
Matrix: Oil **Date Received:** 6/10/2015

Dichlorodifluoromethane	< 971	ug/Kg	6/15/2015	20:19
Ethylbenzene	< 971	ug/Kg	6/15/2015	20:19
Freon 113	< 971	ug/Kg	6/15/2015	20:19
Isopropylbenzene	< 971	ug/Kg	6/15/2015	20:19
m,p-Xylene	< 971	ug/Kg	6/15/2015	20:19
Methyl acetate	< 971	ug/Kg	6/15/2015	20:19
Methyl tert-butyl Ether	< 971	ug/Kg	6/15/2015	20:19
Methylcyclohexane	< 971	ug/Kg	6/15/2015	20:19
Methylene chloride	< 2430	ug/Kg	6/15/2015	20:19
o-Xylene	< 971	ug/Kg	6/15/2015	20:19
Styrene	< 2430	ug/Kg	6/15/2015	20:19
Tetrachloroethene	< 971	ug/Kg	6/15/2015	20:19
Toluene	< 971	ug/Kg	6/15/2015	20:19
trans-1,2-Dichloroethene	< 971	ug/Kg	6/15/2015	20:19
trans-1,3-Dichloropropene	< 971	ug/Kg	6/15/2015	20:19
Trichloroethene	< 971	ug/Kg	6/15/2015	20:19
Trichlorofluoromethane	< 971	ug/Kg	6/15/2015	20:19
Vinyl chloride	< 971	ug/Kg	6/15/2015	20:19

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**104**	80.6 - 125		6/15/2015	20:19
4-Bromofluorobenzene	**95.5**	86.6 - 111		6/15/2015	20:19
Pentafluorobenzene	**104**	90.9 - 107		6/15/2015	20:19
Toluene-D8	**99.0**	90.8 - 109		6/15/2015	20:19

Method Reference(s): EPA 8260C
EPA 3585
Data File: x23710.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier:	NA-AP2-L-060915		
Lab Sample ID:	152324-02	**Date Sampled:**	6/9/2015
Matrix:	Sludge	**Date Received:**	6/10/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Barium	**19.9**	mg/Kg		6/16/2015 19:58
Cadmium	**0.758**	mg/Kg		6/16/2015 19:58
Chromium	**7.38**	mg/Kg		6/16/2015 19:58
Lead	**8.87**	mg/Kg		6/16/2015 19:58

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 6/12/2015
Data File: 061615b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.822	mg/Kg		6/17/2015 13:05
PCB-1221	< 0.822	mg/Kg		6/17/2015 13:05
PCB-1232	< 0.822	mg/Kg		6/17/2015 13:05
PCB-1242	< 0.822	mg/Kg		6/17/2015 13:05
PCB-1248	< 0.822	mg/Kg		6/17/2015 13:05
PCB-1254	< 0.822	mg/Kg		6/17/2015 13:05
PCB-1260	< 0.822	mg/Kg		6/17/2015 13:05
PCB-1262	< 0.822	mg/Kg		6/17/2015 13:05
PCB-1268	< 0.822	mg/Kg		6/17/2015 13:05

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**39.2**	15.9 - 131		6/17/2015 13:05
Tetrachloro-m-xylene	**69.6**	30.3 - 87.5		6/17/2015 13:05

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 6/16/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 9.09	ug/Kg		6/16/2015 22:39
1,1,2,2-Tetrachloroethane	< 9.09	ug/Kg		6/16/2015 22:39

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier:	NA-AP2-L-060915		
Lab Sample ID:	152324-02	**Date Sampled:**	6/9/2015
Matrix:	Sludge	**Date Received:**	6/10/2015

1,1,2-Trichloroethane	< 9.09	ug/Kg	6/16/2015	22:39
1,1-Dichloroethane	< 9.09	ug/Kg	6/16/2015	22:39
1,1-Dichloroethene	< 9.09	ug/Kg	6/16/2015	22:39
1,2,3-Trichlorobenzene	< 22.7	ug/Kg	6/16/2015	22:39
1,2,4-Trichlorobenzene	< 22.7	ug/Kg	6/16/2015	22:39
1,2-Dibromo-3-Chloropropane	< 45.5	ug/Kg	6/16/2015	22:39
1,2-Dibromoethane	< 9.09	ug/Kg	6/16/2015	22:39
1,2-Dichlorobenzene	< 9.09	ug/Kg	6/16/2015	22:39
1,2-Dichloroethane	< 9.09	ug/Kg	6/16/2015	22:39
1,2-Dichloropropane	< 9.09	ug/Kg	6/16/2015	22:39
1,3-Dichlorobenzene	< 9.09	ug/Kg	6/16/2015	22:39
1,4-Dichlorobenzene	< 9.09	ug/Kg	6/16/2015	22:39
1,4-dioxane	< 90.9	ug/Kg	6/16/2015	22:39
2-Butanone	< 45.5	ug/Kg	6/16/2015	22:39
2-Hexanone	< 22.7	ug/Kg	6/16/2015	22:39
4-Methyl-2-pentanone	**75.4**	ug/Kg	6/16/2015	22:39
Acetone	**648**	ug/Kg	6/16/2015	22:39
Benzene	< 9.09	ug/Kg	6/16/2015	22:39
Bromochloromethane	< 22.7	ug/Kg	6/16/2015	22:39
Bromodichloromethane	< 9.09	ug/Kg	6/16/2015	22:39
Bromoform	< 22.7	ug/Kg	6/16/2015	22:39
Bromomethane	< 9.09	ug/Kg	6/16/2015	22:39
Carbon disulfide	< 9.09	ug/Kg	6/16/2015	22:39
Carbon Tetrachloride	< 9.09	ug/Kg	6/16/2015	22:39
Chlorobenzene	< 9.09	ug/Kg	6/16/2015	22:39
Chloroethane	< 9.09	ug/Kg	6/16/2015	22:39
Chloroform	< 9.09	ug/Kg	6/16/2015	22:39
Chloromethane	< 9.09	ug/Kg	6/16/2015	22:39
cis-1,2-Dichloroethene	< 9.09	ug/Kg	6/16/2015	22:39
cis-1,3-Dichloropropene	< 9.09	ug/Kg	6/16/2015	22:39
Cyclohexane	< 45.5	ug/Kg	6/16/2015	22:39
Dibromochloromethane	< 9.09	ug/Kg	6/16/2015	22:39

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP2-L-060915
Lab Sample ID: 152324-02 **Date Sampled:** 6/9/2015
Matrix: Sludge **Date Received:** 6/10/2015

Dichlorodifluoromethane	< 9.09	ug/Kg	6/16/2015	22:39
Ethylbenzene	< 9.09	ug/Kg	6/16/2015	22:39
Freon 113	< 9.09	ug/Kg	6/16/2015	22:39
Isopropylbenzene	< 9.09	ug/Kg	6/16/2015	22:39
m,p-Xylene	**10.4**	ug/Kg	6/16/2015	22:39
Methyl acetate	< 9.09	ug/Kg	6/16/2015	22:39
Methyl tert-butyl Ether	< 9.09	ug/Kg	6/16/2015	22:39
Methylcyclohexane	< 9.09	ug/Kg	6/16/2015	22:39
Methylene chloride	< 22.7	ug/Kg	6/16/2015	22:39
o-Xylene	< 9.09	ug/Kg	6/16/2015	22:39
Styrene	< 22.7	ug/Kg	6/16/2015	22:39
Tetrachloroethene	< 9.09	ug/Kg	6/16/2015	22:39
Toluene	< 9.09	ug/Kg	6/16/2015	22:39
trans-1,2-Dichloroethene	< 9.09	ug/Kg	6/16/2015	22:39
trans-1,3-Dichloropropene	< 9.09	ug/Kg	6/16/2015	22:39
Trichloroethene	< 9.09	ug/Kg	6/16/2015	22:39
Trichlorofluoromethane	< 9.09	ug/Kg	6/16/2015	22:39
Vinyl chloride	< 9.09	ug/Kg	6/16/2015	22:39

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**124**	80.6 - 125		6/16/2015	22:39
4-Bromofluorobenzene	**82.9**	86.6 - 111	*	6/16/2015	22:39
Pentafluorobenzene	**98.4**	90.9 - 107		6/16/2015	22:39
Toluene-D8	**89.4**	90.8 - 109	*	6/16/2015	22:39

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035A

Data File: x23775.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier:	NA-AS8-Z8L-060915		
Lab Sample ID:	152324-03	**Date Sampled:**	6/9/2015
Matrix:	Oil	**Date Received:**	6/10/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Barium	< 4.90	mg/Kg		6/16/2015 20:02
Cadmium	< 0.245	mg/Kg		6/16/2015 20:02
Chromium	**1.75**	mg/Kg		6/16/2015 20:02
Lead	**1.03**	mg/Kg		6/16/2015 20:02

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 6/12/2015
Data File: 061615b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.952	mg/Kg		6/17/2015 16:18
PCB-1221	< 0.952	mg/Kg		6/17/2015 16:18
PCB-1232	< 0.952	mg/Kg		6/17/2015 16:18
PCB-1242	< 0.952	mg/Kg		6/17/2015 16:18
PCB-1248	< 0.952	mg/Kg		6/17/2015 16:18
PCB-1254	< 0.952	mg/Kg		6/17/2015 16:18
PCB-1260	< 0.952	mg/Kg		6/17/2015 16:18
PCB-1262	< 0.952	mg/Kg		6/17/2015 16:18
PCB-1268	< 0.952	mg/Kg		6/17/2015 16:18

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**24.6**	15.9 - 131		6/17/2015 16:18
Tetrachloro-m-xylene	**43.3**	30.3 - 87.5		6/17/2015 16:18

Method Reference(s): EPA 8082A
EPA 3580A
Preparation Date: 6/15/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 971	ug/Kg		6/15/2015 20:42
1,1,2,2-Tetrachloroethane	< 971	ug/Kg		6/15/2015 20:42

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier:	NA-AS8-Z8L-060915		
Lab Sample ID:	152324-03	**Date Sampled:**	6/9/2015
Matrix:	Oil	**Date Received:**	6/10/2015

1,1,2-Trichloroethane	< 971	ug/Kg	6/15/2015	20:42
1,1-Dichloroethane	< 971	ug/Kg	6/15/2015	20:42
1,1-Dichloroethene	< 971	ug/Kg	6/15/2015	20:42
1,2,3-Trichlorobenzene	< 2430	ug/Kg	6/15/2015	20:42
1,2,4-Trichlorobenzene	< 2430	ug/Kg	6/15/2015	20:42
1,2-Dibromo-3-Chloropropane	< 4860	ug/Kg	6/15/2015	20:42
1,2-Dibromoethane	< 971	ug/Kg	6/15/2015	20:42
1,2-Dichlorobenzene	< 971	ug/Kg	6/15/2015	20:42
1,2-Dichloroethane	< 971	ug/Kg	6/15/2015	20:42
1,2-Dichloropropane	< 971	ug/Kg	6/15/2015	20:42
1,3-Dichlorobenzene	< 971	ug/Kg	6/15/2015	20:42
1,4-Dichlorobenzene	< 971	ug/Kg	6/15/2015	20:42
1,4-dioxane	< 9710	ug/Kg	6/15/2015	20:42
2-Butanone	< 4860	ug/Kg	6/15/2015	20:42
2-Hexanone	< 2430	ug/Kg	6/15/2015	20:42
4-Methyl-2-pentanone	< 2430	ug/Kg	6/15/2015	20:42
Acetone	< 4860	ug/Kg	6/15/2015	20:42
Benzene	< 971	ug/Kg	6/15/2015	20:42
Bromochloromethane	< 2430	ug/Kg	6/15/2015	20:42
Bromodichloromethane	< 971	ug/Kg	6/15/2015	20:42
Bromoform	< 2430	ug/Kg	6/15/2015	20:42
Bromomethane	< 971	ug/Kg	6/15/2015	20:42
Carbon disulfide	< 971	ug/Kg	6/15/2015	20:42
Carbon Tetrachloride	< 971	ug/Kg	6/15/2015	20:42
Chlorobenzene	< 971	ug/Kg	6/15/2015	20:42
Chloroethane	< 971	ug/Kg	6/15/2015	20:42
Chloroform	< 971	ug/Kg	6/15/2015	20:42
Chloromethane	< 971	ug/Kg	6/15/2015	20:42
cis-1,2-Dichloroethene	< 971	ug/Kg	6/15/2015	20:42
cis-1,3-Dichloropropene	< 971	ug/Kg	6/15/2015	20:42
Cyclohexane	< 4860	ug/Kg	6/15/2015	20:42
Dibromochloromethane	< 971	ug/Kg	6/15/2015	20:42

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AS8-Z8L-060915
Lab Sample ID: 152324-03 **Date Sampled:** 6/9/2015
Matrix: Oil **Date Received:** 6/10/2015

Dichlorodifluoromethane	< 971	ug/Kg	6/15/2015	20:42
Ethylbenzene	< 971	ug/Kg	6/15/2015	20:42
Freon 113	< 971	ug/Kg	6/15/2015	20:42
Isopropylbenzene	< 971	ug/Kg	6/15/2015	20:42
m,p-Xylene	< 971	ug/Kg	6/15/2015	20:42
Methyl acetate	< 971	ug/Kg	6/15/2015	20:42
Methyl tert-butyl Ether	< 971	ug/Kg	6/15/2015	20:42
Methylcyclohexane	< 971	ug/Kg	6/15/2015	20:42
Methylene chloride	< 2430	ug/Kg	6/15/2015	20:42
o-Xylene	< 971	ug/Kg	6/15/2015	20:42
Styrene	< 2430	ug/Kg	6/15/2015	20:42
Tetrachloroethene	< 971	ug/Kg	6/15/2015	20:42
Toluene	< 971	ug/Kg	6/15/2015	20:42
trans-1,2-Dichloroethene	< 971	ug/Kg	6/15/2015	20:42
trans-1,3-Dichloropropene	< 971	ug/Kg	6/15/2015	20:42
Trichloroethene	< 971	ug/Kg	6/15/2015	20:42
Trichlorofluoromethane	< 971	ug/Kg	6/15/2015	20:42
Vinyl chloride	< 971	ug/Kg	6/15/2015	20:42

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**106**	80.6 - 125		6/15/2015	20:42
4-Bromofluorobenzene	**110**	86.6 - 111		6/15/2015	20:42
Pentafluorobenzene	**96.9**	90.9 - 107		6/15/2015	20:42
Toluene-D8	**95.9**	90.8 - 109		6/15/2015	20:42

Method Reference(s): EPA 8260C
EPA 3585
Data File: x23711.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AS2-Z8L-060915
Lab Sample ID: 152324-04 **Date Sampled:** 6/9/2015
Matrix: Aq Liquid **Date Received:** 6/10/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.000931**	mg/L		6/16/2015 10:18

Method Reference(s): EPA 7470A
Preparation Date: 6/15/2015
Data File: Hg150616A

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.0500	mg/L		6/16/2015 13:46
Barium	< 0.500	mg/L		6/16/2015 13:46
Cadmium	**0.0398**	mg/L		6/16/2015 13:46
Chromium	**0.349**	mg/L	B	6/16/2015 13:46
Lead	**1.05**	mg/L		6/16/2015 13:46
Selenium	< 0.0500	mg/L		6/16/2015 13:46
Silver	< 0.0500	mg/L		6/16/2015 13:46

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 6/12/2015
Data File: 061615a

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 1.00	ug/L		6/15/2015 05:40
PCB-1221	< 1.00	ug/L		6/15/2015 05:40
PCB-1232	< 1.00	ug/L		6/15/2015 05:40
PCB-1242	< 1.00	ug/L		6/15/2015 05:40
PCB-1248	< 1.00	ug/L		6/15/2015 05:40
PCB-1254	**2.45**	ug/L		6/15/2015 05:40
PCB-1260	< 1.00	ug/L		6/15/2015 05:40
PCB-1262	< 1.00	ug/L		6/15/2015 05:40
PCB-1268	< 1.00	ug/L		6/15/2015 05:40

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AS2-Z8L-060915
Lab Sample ID: 152324-04 **Date Sampled:** 6/9/2015
Matrix: Aq Liquid **Date Received:** 6/10/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**12.9**	28.7 - 139	*	6/15/2015 05:40
Tetrachloro-m-xylene	**25.2**	0 - 110		6/15/2015 05:40

Method Reference(s): EPA 8082A
EPA 3510C
Preparation Date: 6/12/2015

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 250	ug/L		6/15/2015 20:32
1,2,4,5-Tetrachlorobenzene	< 250	ug/L		6/15/2015 20:32
1,2,4-Trichlorobenzene	< 250	ug/L		6/15/2015 20:32
1,2-Dichlorobenzene	< 250	ug/L		6/15/2015 20:32
1,3-Dichlorobenzene	< 250	ug/L		6/15/2015 20:32
1,4-Dichlorobenzene	< 250	ug/L		6/15/2015 20:32
2,3,4,6-Tetrachlorophenol	< 250	ug/L		6/15/2015 20:32
2,4,5-Trichlorophenol	< 500	ug/L		6/15/2015 20:32
2,4,6-Trichlorophenol	< 250	ug/L		6/15/2015 20:32
2,4-Dichlorophenol	< 250	ug/L		6/15/2015 20:32
2,4-Dimethylphenol	< 250	ug/L		6/15/2015 20:32
2,4-Dinitrophenol	< 500	ug/L		6/15/2015 20:32
2,4-Dinitrotoluene	< 250	ug/L		6/15/2015 20:32
2,6-Dinitrotoluene	< 250	ug/L		6/15/2015 20:32
2-Chloronaphthalene	< 250	ug/L		6/15/2015 20:32
2-Chlorophenol	< 250	ug/L		6/15/2015 20:32
2-Methylnapthalene	< 250	ug/L		6/15/2015 20:32
2-Methylphenol	< 250	ug/L		6/15/2015 20:32
2-Nitroaniline	< 500	ug/L		6/15/2015 20:32
2-Nitrophenol	< 250	ug/L		6/15/2015 20:32
3&4-Methylphenol	< 250	ug/L		6/15/2015 20:32
3,3'-Dichlorobenzidine	< 250	ug/L		6/15/2015 20:32
3-Nitroaniline	< 500	ug/L		6/15/2015 20:32
4,6-Dinitro-2-methylphenol	< 500	ug/L		6/15/2015 20:32

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier:	NA-AS2-Z8L-060915		
Lab Sample ID:	152324-04	**Date Sampled:**	6/9/2015
Matrix:	Aq Liquid	**Date Received:**	6/10/2015

4-Bromophenyl phenyl ether	< 250	ug/L	6/15/2015 20:32
4-Chloro-3-methylphenol	< 250	ug/L	6/15/2015 20:32
4-Chloroaniline	< 250	ug/L	6/15/2015 20:32
4-Chlorophenyl phenyl ether	< 250	ug/L	6/15/2015 20:32
4-Nitroaniline	< 500	ug/L	6/15/2015 20:32
4-Nitrophenol	< 500	ug/L	6/15/2015 20:32
Acenaphthene	< 250	ug/L	6/15/2015 20:32
Acenaphthylene	< 250	ug/L	6/15/2015 20:32
Acetophenone	< 250	ug/L	6/15/2015 20:32
Anthracene	< 250	ug/L	6/15/2015 20:32
Atrazine	< 250	ug/L	6/15/2015 20:32
Benzaldehyde	< 250	ug/L	6/15/2015 20:32
Benzo (a) anthracene	< 250	ug/L	6/15/2015 20:32
Benzo (a) pyrene	< 250	ug/L	6/15/2015 20:32
Benzo (b) fluoranthene	< 250	ug/L	6/15/2015 20:32
Benzo (g,h,i) perylene	< 250	ug/L	6/15/2015 20:32
Benzo (k) fluoranthene	< 250	ug/L	6/15/2015 20:32
Bis (2-chloroethoxy) methane	< 250	ug/L	6/15/2015 20:32
Bis (2-chloroethyl) ether	< 250	ug/L	6/15/2015 20:32
Bis (2-chloroisopropyl) ether	< 250	ug/L	6/15/2015 20:32
Bis (2-ethylhexyl) phthalate	< 250	ug/L	6/15/2015 20:32
Butylbenzylphthalate	< 250	ug/L	6/15/2015 20:32
Caprolactam	< 250	ug/L	6/15/2015 20:32
Carbazole	< 250	ug/L	6/15/2015 20:32
Chrysene	< 250	ug/L	6/15/2015 20:32
Dibenz (a,h) anthracene	< 250	ug/L	6/15/2015 20:32
Dibenzofuran	< 250	ug/L	6/15/2015 20:32
Diethyl phthalate	< 250	ug/L	6/15/2015 20:32
Dimethyl phthalate	< 500	ug/L	6/15/2015 20:32
Di-n-butyl phthalate	< 250	ug/L	6/15/2015 20:32
Di-n-octylphthalate	< 250	ug/L	6/15/2015 20:32
Fluoranthene	< 250	ug/L	6/15/2015 20:32

Sample Identifier: NA-AS2-Z8L-060915
Lab Sample ID: 152324-04 **Date Sampled:** 6/9/2015
Matrix: Aq Liquid **Date Received:** 6/10/2015

Fluorene	< 250	ug/L	6/15/2015	20:32
Hexachlorobenzene	< 250	ug/L	6/15/2015	20:32
Hexachlorobutadiene	< 250	ug/L	6/15/2015	20:32
Hexachlorocyclopentadiene	< 250	ug/L	6/15/2015	20:32
Hexachloroethane	< 250	ug/L	6/15/2015	20:32
Indeno (1,2,3-cd) pyrene	< 250	ug/L	6/15/2015	20:32
Isophorone	< 250	ug/L	6/15/2015	20:32
Naphthalene	< 250	ug/L	6/15/2015	20:32
Nitrobenzene	< 250	ug/L	6/15/2015	20:32
N-Nitroso-di-n-propylamine	< 250	ug/L	6/15/2015	20:32
N-Nitrosodiphenylamine	< 250	ug/L	6/15/2015	20:32
Pentachlorophenol	< 500	ug/L	6/15/2015	20:32
Phenanthrene	< 250	ug/L	6/15/2015	20:32
Phenol	< 250	ug/L	6/15/2015	20:32
Pyrene	< 250	ug/L	6/15/2015	20:32

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**7.71**	27.2 - 132	*	6/15/2015 20:32
2-Fluorobiphenyl	**72.0**	20.2 - 94.7		6/15/2015 20:32
2-Fluorophenol	**7.02**	5.5 - 92.9		6/15/2015 20:32
Nitrobenzene-d5	**67.5**	44.4 - 95.7		6/15/2015 20:32
Phenol-d5	**8.81**	0 - 90.8		6/15/2015 20:32
Terphenyl-d14	**72.3**	55.1 - 112		6/15/2015 20:32

Reporting limit elevated due to sample matrix

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 6/15/2015
Data File: B05842.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		6/16/2015 15:35
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		6/16/2015 15:35
1,1,2-Trichloroethane	< 2.00	ug/L		6/16/2015 15:35

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier:	NA-AS2-Z8L-060915		
Lab Sample ID:	152324-04	**Date Sampled:**	6/9/2015
Matrix:	Aq Liquid	**Date Received:**	6/10/2015

1,1-Dichloroethane	< 2.00	ug/L	6/16/2015	15:35
1,1-Dichloroethene	< 2.00	ug/L	6/16/2015	15:35
1,2,3-Trichlorobenzene	< 5.00	ug/L	6/16/2015	15:35
1,2,4-Trichlorobenzene	< 5.00	ug/L	6/16/2015	15:35
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	6/16/2015	15:35
1,2-Dibromoethane	< 2.00	ug/L	6/16/2015	15:35
1,2-Dichlorobenzene	< 2.00	ug/L	6/16/2015	15:35
1,2-Dichloroethane	< 2.00	ug/L	6/16/2015	15:35
1,2-Dichloropropane	< 2.00	ug/L	6/16/2015	15:35
1,3-Dichlorobenzene	< 2.00	ug/L	6/16/2015	15:35
1,4-Dichlorobenzene	< 2.00	ug/L	6/16/2015	15:35
1,4-dioxane	< 20.0	ug/L	6/16/2015	15:35
2-Butanone	< 10.0	ug/L	6/16/2015	15:35
2-Hexanone	< 5.00	ug/L	6/16/2015	15:35
4-Methyl-2-pentanone	< 5.00	ug/L	6/16/2015	15:35
Acetone	< 10.0	ug/L	6/16/2015	15:35
Benzene	< 0.700	ug/L	6/16/2015	15:35
Bromochloromethane	< 5.00	ug/L	6/16/2015	15:35
Bromodichloromethane	< 2.00	ug/L	6/16/2015	15:35
Bromoform	< 5.00	ug/L	6/16/2015	15:35
Bromomethane	< 2.00	ug/L	6/16/2015	15:35
Carbon disulfide	< 2.00	ug/L	6/16/2015	15:35
Carbon Tetrachloride	< 2.00	ug/L	6/16/2015	15:35
Chlorobenzene	< 2.00	ug/L	6/16/2015	15:35
Chloroethane	< 2.00	ug/L	6/16/2015	15:35
Chloroform	< 2.00	ug/L	6/16/2015	15:35
Chloromethane	< 2.00	ug/L	6/16/2015	15:35
cis-1,2-Dichloroethene	< 2.00	ug/L	6/16/2015	15:35
cis-1,3-Dichloropropene	< 2.00	ug/L	6/16/2015	15:35
Cyclohexane	< 10.0	ug/L	6/16/2015	15:35
Dibromochloromethane	< 2.00	ug/L	6/16/2015	15:35
Dichlorodifluoromethane	< 2.00	ug/L	6/16/2015	15:35

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AS2-Z8L-060915
Lab Sample ID: 152324-04 **Date Sampled:** 6/9/2015
Matrix: Aq Liquid **Date Received:** 6/10/2015

Ethylbenzene	< 2.00	ug/L	6/16/2015	15:35
Freon 113	< 2.00	ug/L	6/16/2015	15:35
Isopropylbenzene	< 2.00	ug/L	6/16/2015	15:35
m,p-Xylene	< 2.00	ug/L	6/16/2015	15:35
Methyl acetate	< 2.00	ug/L	6/16/2015	15:35
Methyl tert-butyl Ether	< 2.00	ug/L	6/16/2015	15:35
Methylcyclohexane	< 2.00	ug/L	6/16/2015	15:35
Methylene chloride	< 5.00	ug/L	6/16/2015	15:35
o-Xylene	< 2.00	ug/L	6/16/2015	15:35
Styrene	< 5.00	ug/L	6/16/2015	15:35
Tetrachloroethene	< 2.00	ug/L	6/16/2015	15:35
Toluene	< 2.00	ug/L	6/16/2015	15:35
trans-1,2-Dichloroethene	< 2.00	ug/L	6/16/2015	15:35
trans-1,3-Dichloropropene	< 2.00	ug/L	6/16/2015	15:35
Trichloroethene	< 2.00	ug/L	6/16/2015	15:35
Trichlorofluoromethane	< 2.00	ug/L	6/16/2015	15:35
Vinyl chloride	< 2.00	ug/L	6/16/2015	15:35

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**105**	82.3 - 115		6/16/2015	15:35
4-Bromofluorobenzene	**87.7**	85.5 - 111		6/16/2015	15:35
Pentafluorobenzene	**97.7**	91.2 - 107		6/16/2015	15:35
Toluene-D8	**92.7**	90.9 - 108		6/16/2015	15:35

Method Reference(s): EPA 8260C
EPA 5030
Data File: x23757.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, June 18, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier:	NA-TANK DTE25-060915		
Lab Sample ID:	152324-05	**Date Sampled:**	6/9/2015
Matrix:	Oil	**Date Received:**	6/10/2015

Petroleum Hydrocarbons by GC

Analyte	Result	Units	Qualifier	Date Analyzed
Heavy weight PHC as Lube Oil	Pure Product	mg/Kg		6/16/2015

Method Reference(s): NYSDOH 310.13
Preparation Date: 6/16/2015
ELAP does not offer this test for approval as part of their laboratory certification program.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier:	NA-TANK 360-060915		
Lab Sample ID:	152324-06	**Date Sampled:**	6/9/2015
Matrix:	Oil	**Date Received:**	6/10/2015

Petroleum Hydrocarbons by GC

Analyte	Result	Units	Qualifier	Date Analyzed
Heavy weight PHC as Lube Oil	Pure Product	mg/Kg		6/16/2015

Method Reference(s): NYSDOH 310.13
Preparation Date: 6/16/2015
ELAP does not offer this test for approval as part of their laboratory certification program.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier:	NA-AP3-L-060915		
Lab Sample ID:	152324-07	**Date Sampled:**	6/9/2015
Matrix:	Oil	**Date Received:**	6/10/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Barium	< 4.55	mg/Kg		6/16/2015 20:06
Cadmium	< 0.227	mg/Kg		6/16/2015 20:06
Chromium	< 0.455	mg/Kg		6/16/2015 20:06
Lead	< 0.455	mg/Kg		6/16/2015 20:06

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 6/12/2015
Data File: 061615b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.887	mg/Kg		6/17/2015 13:54
PCB-1221	< 0.887	mg/Kg		6/17/2015 13:54
PCB-1232	< 0.887	mg/Kg		6/17/2015 13:54
PCB-1242	< 0.887	mg/Kg		6/17/2015 13:54
PCB-1248	< 0.887	mg/Kg		6/17/2015 13:54
PCB-1254	**2.06**	mg/Kg		6/17/2015 13:54
PCB-1260	< 0.887	mg/Kg		6/17/2015 13:54
PCB-1262	< 0.887	mg/Kg		6/17/2015 13:54
PCB-1268	< 0.887	mg/Kg		6/17/2015 13:54

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**28.5**	15.9 - 131		6/17/2015 13:54
Tetrachloro-m-xylene	**51.0**	30.3 - 87.5		6/17/2015 13:54

Method Reference(s): EPA 8082A
EPA 3580A
Preparation Date: 6/15/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 980	ug/Kg		6/15/2015 21:06
1,1,2,2-Tetrachloroethane	< 980	ug/Kg		6/15/2015 21:06

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier:	NA-AP3-L-060915		
Lab Sample ID:	152324-07	**Date Sampled:**	6/9/2015
Matrix:	Oil	**Date Received:**	6/10/2015

1,1,2-Trichloroethane	< 980	ug/Kg	6/15/2015 21:06
1,1-Dichloroethane	< 980	ug/Kg	6/15/2015 21:06
1,1-Dichloroethene	< 980	ug/Kg	6/15/2015 21:06
1,2,3-Trichlorobenzene	< 2450	ug/Kg	6/15/2015 21:06
1,2,4-Trichlorobenzene	< 2450	ug/Kg	6/15/2015 21:06
1,2-Dibromo-3-Chloropropane	< 4900	ug/Kg	6/15/2015 21:06
1,2-Dibromoethane	< 980	ug/Kg	6/15/2015 21:06
1,2-Dichlorobenzene	< 980	ug/Kg	6/15/2015 21:06
1,2-Dichloroethane	< 980	ug/Kg	6/15/2015 21:06
1,2-Dichloropropane	< 980	ug/Kg	6/15/2015 21:06
1,3-Dichlorobenzene	< 980	ug/Kg	6/15/2015 21:06
1,4-Dichlorobenzene	< 980	ug/Kg	6/15/2015 21:06
1,4-dioxane	< 9800	ug/Kg	6/15/2015 21:06
2-Butanone	< 4900	ug/Kg	6/15/2015 21:06
2-Hexanone	< 2450	ug/Kg	6/15/2015 21:06
4-Methyl-2-pentanone	< 2450	ug/Kg	6/15/2015 21:06
Acetone	< 4900	ug/Kg	6/15/2015 21:06
Benzene	< 980	ug/Kg	6/15/2015 21:06
Bromochloromethane	< 2450	ug/Kg	6/15/2015 21:06
Bromodichloromethane	< 980	ug/Kg	6/15/2015 21:06
Bromoform	< 2450	ug/Kg	6/15/2015 21:06
Bromomethane	< 980	ug/Kg	6/15/2015 21:06
Carbon disulfide	< 980	ug/Kg	6/15/2015 21:06
Carbon Tetrachloride	< 980	ug/Kg	6/15/2015 21:06
Chlorobenzene	< 980	ug/Kg	6/15/2015 21:06
Chloroethane	< 980	ug/Kg	6/15/2015 21:06
Chloroform	< 980	ug/Kg	6/15/2015 21:06
Chloromethane	< 980	ug/Kg	6/15/2015 21:06
cis-1,2-Dichloroethene	< 980	ug/Kg	6/15/2015 21:06
cis-1,3-Dichloropropene	< 980	ug/Kg	6/15/2015 21:06
Cyclohexane	< 4900	ug/Kg	6/15/2015 21:06
Dibromochloromethane	< 980	ug/Kg	6/15/2015 21:06

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP3-L-060915
Lab Sample ID: 152324-07 **Date Sampled:** 6/9/2015
Matrix: Oil **Date Received:** 6/10/2015

Dichlorodifluoromethane	< 980	ug/Kg	6/15/2015	21:06
Ethylbenzene	< 980	ug/Kg	6/15/2015	21:06
Freon 113	< 980	ug/Kg	6/15/2015	21:06
Isopropylbenzene	< 980	ug/Kg	6/15/2015	21:06
m,p-Xylene	< 980	ug/Kg	6/15/2015	21:06
Methyl acetate	< 980	ug/Kg	6/15/2015	21:06
Methyl tert-butyl Ether	< 980	ug/Kg	6/15/2015	21:06
Methylcyclohexane	< 980	ug/Kg	6/15/2015	21:06
Methylene chloride	< 2450	ug/Kg	6/15/2015	21:06
o-Xylene	< 980	ug/Kg	6/15/2015	21:06
Styrene	< 2450	ug/Kg	6/15/2015	21:06
Tetrachloroethene	< 980	ug/Kg	6/15/2015	21:06
Toluene	< 980	ug/Kg	6/15/2015	21:06
trans-1,2-Dichloroethene	< 980	ug/Kg	6/15/2015	21:06
trans-1,3-Dichloropropene	< 980	ug/Kg	6/15/2015	21:06
Trichloroethene	< 980	ug/Kg	6/15/2015	21:06
Trichlorofluoromethane	< 980	ug/Kg	6/15/2015	21:06
Vinyl chloride	< 980	ug/Kg	6/15/2015	21:06

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**91.6**	80.6 - 125		6/15/2015	21:06
4-Bromofluorobenzene	**99.1**	86.6 - 111		6/15/2015	21:06
Pentafluorobenzene	**98.9**	90.9 - 107		6/15/2015	21:06
Toluene-D8	**97.2**	90.8 - 109		6/15/2015	21:06

Method Reference(s): EPA 8260C
EPA 3585
Data File: x23712.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP3-S-060915
Lab Sample ID: 152324-08 **Date Sampled:** 6/9/2015
Matrix: Solid **Date Received:** 6/10/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.00794	mg/Kg		6/16/2015 14:03

Method Reference(s): EPA 7471B
Preparation Date: 6/15/2015
Data File: Hg150616C

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**10.3**	mg/Kg		6/16/2015 20:11
Barium	**19.9**	mg/Kg		6/16/2015 20:11
Cadmium	**0.682**	mg/Kg		6/16/2015 20:11
Chromium	**4.81**	mg/Kg		6/16/2015 20:11
Lead	**18.3**	mg/Kg		6/16/2015 20:11
Selenium	**3.11**	mg/Kg		6/17/2015 11:01
Silver	< 0.984	mg/Kg		6/16/2015 20:11

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 6/12/2015
Data File: 061615b

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 285	ug/Kg		6/16/2015 16:39
1,2,4,5-Tetrachlorobenzene	< 285	ug/Kg		6/16/2015 16:39
1,2,4-Trichlorobenzene	< 285	ug/Kg		6/16/2015 16:39
1,2-Dichlorobenzene	< 285	ug/Kg		6/16/2015 16:39
1,3-Dichlorobenzene	< 285	ug/Kg		6/16/2015 16:39
1,4-Dichlorobenzene	< 285	ug/Kg		6/16/2015 16:39
2,3,4,6-Tetrachlorophenol	< 285	ug/Kg		6/16/2015 16:39
2,4,5-Trichlorophenol	< 570	ug/Kg		6/16/2015 16:39
2,4,6-Trichlorophenol	< 285	ug/Kg		6/16/2015 16:39
2,4-Dichlorophenol	< 285	ug/Kg		6/16/2015 16:39

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier:	NA-AP3-S-060915		
Lab Sample ID:	152324-08	**Date Sampled:**	6/9/2015
Matrix:	Solid	**Date Received:**	6/10/2015

2,4-Dimethylphenol	< 285	ug/Kg	6/16/2015 16:39
2,4-Dinitrophenol	< 570	ug/Kg	6/16/2015 16:39
2,4-Dinitrotoluene	< 285	ug/Kg	6/16/2015 16:39
2,6-Dinitrotoluene	< 285	ug/Kg	6/16/2015 16:39
2-Chloronaphthalene	< 285	ug/Kg	6/16/2015 16:39
2-Chlorophenol	< 285	ug/Kg	6/16/2015 16:39
2-Methylnapthalene	< 285	ug/Kg	6/16/2015 16:39
2-Methylphenol	< 285	ug/Kg	6/16/2015 16:39
2-Nitroaniline	< 570	ug/Kg	6/16/2015 16:39
2-Nitrophenol	< 285	ug/Kg	6/16/2015 16:39
3&4-Methylphenol	< 285	ug/Kg	6/16/2015 16:39
3,3'-Dichlorobenzidine	< 285	ug/Kg	6/16/2015 16:39
3-Nitroaniline	< 570	ug/Kg	6/16/2015 16:39
4,6-Dinitro-2-methylphenol	< 570	ug/Kg	6/16/2015 16:39
4-Bromophenyl phenyl ether	< 285	ug/Kg	6/16/2015 16:39
4-Chloro-3-methylphenol	< 285	ug/Kg	6/16/2015 16:39
4-Chloroaniline	< 285	ug/Kg	6/16/2015 16:39
4-Chlorophenyl phenyl ether	< 285	ug/Kg	6/16/2015 16:39
4-Nitroaniline	< 570	ug/Kg	6/16/2015 16:39
4-Nitrophenol	< 570	ug/Kg	6/16/2015 16:39
Acenaphthene	**305**	ug/Kg	6/16/2015 16:39
Acenaphthylene	< 285	ug/Kg	6/16/2015 16:39
Acetophenone	< 285	ug/Kg	6/16/2015 16:39
Anthracene	< 285	ug/Kg	6/16/2015 16:39
Atrazine	< 285	ug/Kg	6/16/2015 16:39
Benzaldehyde	< 285	ug/Kg	6/16/2015 16:39
Benzo (a) anthracene	< 285	ug/Kg	6/16/2015 16:39
Benzo (a) pyrene	< 285	ug/Kg	6/16/2015 16:39
Benzo (b) fluoranthene	< 285	ug/Kg	6/16/2015 16:39
Benzo (g,h,i) perylene	< 285	ug/Kg	6/16/2015 16:39
Benzo (k) fluoranthene	< 285	ug/Kg	6/16/2015 16:39
Bis (2-chloroethoxy) methane	< 285	ug/Kg	6/16/2015 16:39

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier:	NA-AP3-S-060915		
Lab Sample ID:	152324-08	**Date Sampled:**	6/9/2015
Matrix:	Solid	**Date Received:**	6/10/2015

Bis (2-chloroethyl) ether	< 285	ug/Kg	6/16/2015	16:39
Bis (2-chloroisopropyl) ether	< 285	ug/Kg	6/16/2015	16:39
Bis (2-ethylhexyl) phthalate	**444**	ug/Kg	6/16/2015	16:39
Butylbenzylphthalate	< 285	ug/Kg	6/16/2015	16:39
Caprolactam	< 285	ug/Kg	6/16/2015	16:39
Carbazole	< 285	ug/Kg	6/16/2015	16:39
Chrysene	< 285	ug/Kg	6/16/2015	16:39
Dibenz (a,h) anthracene	< 285	ug/Kg	6/16/2015	16:39
Dibenzofuran	**524**	ug/Kg	6/16/2015	16:39
Diethyl phthalate	< 285	ug/Kg	6/16/2015	16:39
Dimethyl phthalate	< 570	ug/Kg	6/16/2015	16:39
Di-n-butyl phthalate	< 285	ug/Kg	6/16/2015	16:39
Di-n-octylphthalate	< 285	ug/Kg	6/16/2015	16:39
Fluoranthene	**858**	ug/Kg	6/16/2015	16:39
Fluorene	< 285	ug/Kg	6/16/2015	16:39
Hexachlorobenzene	< 285	ug/Kg	6/16/2015	16:39
Hexachlorobutadiene	< 285	ug/Kg	6/16/2015	16:39
Hexachlorocyclopentadiene	< 285	ug/Kg	6/16/2015	16:39
Hexachloroethane	< 285	ug/Kg	6/16/2015	16:39
Indeno (1,2,3-cd) pyrene	< 285	ug/Kg	6/16/2015	16:39
Isophorone	< 285	ug/Kg	6/16/2015	16:39
Naphthalene	< 285	ug/Kg	6/16/2015	16:39
Nitrobenzene	< 285	ug/Kg	6/16/2015	16:39
N-Nitroso-di-n-propylamine	< 285	ug/Kg	6/16/2015	16:39
N-Nitrosodiphenylamine	< 285	ug/Kg	6/16/2015	16:39
Pentachlorophenol	< 570	ug/Kg	6/16/2015	16:39
Phenanthrene	**1460**	ug/Kg	6/16/2015	16:39
Phenol	< 285	ug/Kg	6/16/2015	16:39
Pyrene	**615**	ug/Kg	6/16/2015	16:39

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP3-S-060915

Lab Sample ID: 152324-08 **Date Sampled:** 6/9/2015

Matrix: Solid **Date Received:** 6/10/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**68.0**	41.6 - 115		6/16/2015 16:39
2-Fluorobiphenyl	**61.5**	35.9 - 103		6/16/2015 16:39
2-Fluorophenol	**52.7**	39.9 - 87.9		6/16/2015 16:39
Nitrobenzene-d5	**51.4**	37.2 - 90.6		6/16/2015 16:39
Phenol-d5	**56.1**	42.3 - 90.6		6/16/2015 16:39
Terphenyl-d14	**68.4**	58.2 - 113		6/16/2015 16:39

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 6/16/2015
Data File: B05857.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP4-L-060915
Lab Sample ID: 152324-09 **Date Sampled:** 6/9/2015
Matrix: Water **Date Received:** 6/10/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		6/16/2015 10:28

Method Reference(s): EPA 7470A
Preparation Date: 6/15/2015
Data File: Hg150616A

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.0100	mg/L		6/16/2015 13:50
Barium	< 0.100	mg/L		6/16/2015 13:50
Cadmium	< 0.00500	mg/L		6/16/2015 13:50
Chromium	< 0.0100	mg/L		6/16/2015 13:50
Lead	**0.0550**	mg/L		6/16/2015 13:50
Selenium	< 0.0100	mg/L		6/16/2015 13:50
Silver	< 0.0100	mg/L		6/16/2015 13:50

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 6/12/2015
Data File: 061615a

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 1.00	ug/L		6/15/2015 06:28
PCB-1221	< 1.00	ug/L		6/15/2015 06:28
PCB-1232	< 1.00	ug/L		6/15/2015 06:28
PCB-1242	< 1.00	ug/L		6/15/2015 06:28
PCB-1248	< 1.00	ug/L		6/15/2015 06:28
PCB-1254	< 1.00	ug/L		6/15/2015 06:28
PCB-1260	< 1.00	ug/L		6/15/2015 06:28
PCB-1262	< 1.00	ug/L		6/15/2015 06:28
PCB-1268	< 1.00	ug/L		6/15/2015 06:28

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP4-L-060915
Lab Sample ID: 152324-09 **Date Sampled:** 6/9/2015
Matrix: Water **Date Received:** 6/10/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**37.9**	28.7 - 139		6/15/2015 06:28
Tetrachloro-m-xylene	**33.0**	0 - 110		6/15/2015 06:28

Method Reference(s): EPA 8082A
EPA 3510C
Preparation Date: 6/12/2015

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 100	ug/L		6/15/2015 15:13
1,2,4,5-Tetrachlorobenzene	< 100	ug/L		6/15/2015 15:13
1,2,4-Trichlorobenzene	< 100	ug/L		6/15/2015 15:13
1,2-Dichlorobenzene	< 100	ug/L		6/15/2015 15:13
1,3-Dichlorobenzene	< 100	ug/L		6/15/2015 15:13
1,4-Dichlorobenzene	< 100	ug/L		6/15/2015 15:13
2,3,4,6-Tetrachlorophenol	< 100	ug/L		6/15/2015 15:13
2,4,5-Trichlorophenol	< 200	ug/L		6/15/2015 15:13
2,4,6-Trichlorophenol	< 100	ug/L		6/15/2015 15:13
2,4-Dichlorophenol	< 100	ug/L		6/15/2015 15:13
2,4-Dimethylphenol	< 100	ug/L		6/15/2015 15:13
2,4-Dinitrophenol	< 200	ug/L		6/15/2015 15:13
2,4-Dinitrotoluene	< 100	ug/L		6/15/2015 15:13
2,6-Dinitrotoluene	< 100	ug/L		6/15/2015 15:13
2-Chloronaphthalene	< 100	ug/L		6/15/2015 15:13
2-Chlorophenol	< 100	ug/L		6/15/2015 15:13
2-Methylnapthalene	< 100	ug/L		6/15/2015 15:13
2-Methylphenol	< 100	ug/L		6/15/2015 15:13
2-Nitroaniline	< 200	ug/L		6/15/2015 15:13
2-Nitrophenol	< 100	ug/L		6/15/2015 15:13
3&4-Methylphenol	< 100	ug/L		6/15/2015 15:13
3,3'-Dichlorobenzidine	< 100	ug/L		6/15/2015 15:13
3-Nitroaniline	< 200	ug/L		6/15/2015 15:13
4,6-Dinitro-2-methylphenol	< 200	ug/L		6/15/2015 15:13

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier:	NA-AP4-L-060915		
Lab Sample ID:	152324-09	**Date Sampled:**	6/9/2015
Matrix:	Water	**Date Received:**	6/10/2015

4-Bromophenyl phenyl ether	< 100	ug/L	6/15/2015	15:13
4-Chloro-3-methylphenol	< 100	ug/L	6/15/2015	15:13
4-Chloroaniline	< 100	ug/L	6/15/2015	15:13
4-Chlorophenyl phenyl ether	< 100	ug/L	6/15/2015	15:13
4-Nitroaniline	< 200	ug/L	6/15/2015	15:13
4-Nitrophenol	< 200	ug/L	6/15/2015	15:13
Acenaphthene	< 100	ug/L	6/15/2015	15:13
Acenaphthylene	< 100	ug/L	6/15/2015	15:13
Acetophenone	< 100	ug/L	6/15/2015	15:13
Anthracene	< 100	ug/L	6/15/2015	15:13
Atrazine	< 100	ug/L	6/15/2015	15:13
Benzaldehyde	< 100	ug/L	6/15/2015	15:13
Benzo (a) anthracene	< 100	ug/L	6/15/2015	15:13
Benzo (a) pyrene	< 100	ug/L	6/15/2015	15:13
Benzo (b) fluoranthene	< 100	ug/L	6/15/2015	15:13
Benzo (g,h,i) perylene	< 100	ug/L	6/15/2015	15:13
Benzo (k) fluoranthene	< 100	ug/L	6/15/2015	15:13
Bis (2-chloroethoxy) methane	< 100	ug/L	6/15/2015	15:13
Bis (2-chloroethyl) ether	< 100	ug/L	6/15/2015	15:13
Bis (2-chloroisopropyl) ether	< 100	ug/L	6/15/2015	15:13
Bis (2-ethylhexyl) phthalate	< 100	ug/L	6/15/2015	15:13
Butylbenzylphthalate	< 100	ug/L	6/15/2015	15:13
Caprolactam	< 100	ug/L	6/15/2015	15:13
Carbazole	< 100	ug/L	6/15/2015	15:13
Chrysene	< 100	ug/L	6/15/2015	15:13
Dibenz (a,h) anthracene	< 100	ug/L	6/15/2015	15:13
Dibenzofuran	< 100	ug/L	6/15/2015	15:13
Diethyl phthalate	< 100	ug/L	6/15/2015	15:13
Dimethyl phthalate	< 200	ug/L	6/15/2015	15:13
Di-n-butyl phthalate	< 100	ug/L	6/15/2015	15:13
Di-n-octylphthalate	< 100	ug/L	6/15/2015	15:13
Fluoranthene	< 100	ug/L	6/15/2015	15:13

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP4-L-060915
Lab Sample ID: 152324-09 **Date Sampled:** 6/9/2015
Matrix: Water **Date Received:** 6/10/2015

Fluorene	< 100	ug/L	6/15/2015	15:13
Hexachlorobenzene	< 100	ug/L	6/15/2015	15:13
Hexachlorobutadiene	< 100	ug/L	6/15/2015	15:13
Hexachlorocyclopentadiene	< 100	ug/L	6/15/2015	15:13
Hexachloroethane	< 100	ug/L	6/15/2015	15:13
Indeno (1,2,3-cd) pyrene	< 100	ug/L	6/15/2015	15:13
Isophorone	< 100	ug/L	6/15/2015	15:13
Naphthalene	< 100	ug/L	6/15/2015	15:13
Nitrobenzene	< 100	ug/L	6/15/2015	15:13
N-Nitroso-di-n-propylamine	< 100	ug/L	6/15/2015	15:13
N-Nitrosodiphenylamine	< 100	ug/L	6/15/2015	15:13
Pentachlorophenol	< 200	ug/L	6/15/2015	15:13
Phenanthrene	< 100	ug/L	6/15/2015	15:13
Phenol	< 100	ug/L	6/15/2015	15:13
Pyrene	< 100	ug/L	6/15/2015	15:13

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**24.8**	27.2 - 132	*	6/15/2015	15:13
2-Fluorobiphenyl	**77.5**	20.2 - 94.7		6/15/2015	15:13
2-Fluorophenol	**17.8**	5.5 - 92.9		6/15/2015	15:13
Nitrobenzene-d5	**76.9**	44.4 - 95.7		6/15/2015	15:13
Phenol-d5	**34.9**	0 - 90.8		6/15/2015	15:13
Terphenyl-d14	**79.4**	55.1 - 112		6/15/2015	15:13

Reporting limit elevated due to limited sample volume

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 6/15/2015
Data File: B05831.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 2.00	ug/L		6/16/2015	14:22
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		6/16/2015	14:22
1,1,2-Trichloroethane	< 2.00	ug/L		6/16/2015	14:22

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP4-L-060915
Lab Sample ID: 152324-09 **Date Sampled:** 6/9/2015
Matrix: Water **Date Received:** 6/10/2015

1,1-Dichloroethane	< 2.00	ug/L	6/16/2015	14:22
1,1-Dichloroethene	< 2.00	ug/L	6/16/2015	14:22
1,2,3-Trichlorobenzene	< 5.00	ug/L	6/16/2015	14:22
1,2,4-Trichlorobenzene	< 5.00	ug/L	6/16/2015	14:22
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	6/16/2015	14:22
1,2-Dibromoethane	< 2.00	ug/L	6/16/2015	14:22
1,2-Dichlorobenzene	< 2.00	ug/L	6/16/2015	14:22
1,2-Dichloroethane	< 2.00	ug/L	6/16/2015	14:22
1,2-Dichloropropane	< 2.00	ug/L	6/16/2015	14:22
1,3-Dichlorobenzene	< 2.00	ug/L	6/16/2015	14:22
1,4-Dichlorobenzene	< 2.00	ug/L	6/16/2015	14:22
1,4-dioxane	< 20.0	ug/L	6/16/2015	14:22
2-Butanone	< 10.0	ug/L	6/16/2015	14:22
2-Hexanone	< 5.00	ug/L	6/16/2015	14:22
4-Methyl-2-pentanone	< 5.00	ug/L	6/16/2015	14:22
Acetone	< 10.0	ug/L	6/16/2015	14:22
Benzene	< 0.700	ug/L	6/16/2015	14:22
Bromochloromethane	< 5.00	ug/L	6/16/2015	14:22
Bromodichloromethane	< 2.00	ug/L	6/16/2015	14:22
Bromoform	< 5.00	ug/L	6/16/2015	14:22
Bromomethane	< 2.00	ug/L	6/16/2015	14:22
Carbon disulfide	< 2.00	ug/L	6/16/2015	14:22
Carbon Tetrachloride	< 2.00	ug/L	6/16/2015	14:22
Chlorobenzene	< 2.00	ug/L	6/16/2015	14:22
Chloroethane	< 2.00	ug/L	6/16/2015	14:22
Chloroform	< 2.00	ug/L	6/16/2015	14:22
Chloromethane	< 2.00	ug/L	6/16/2015	14:22
cis-1,2-Dichloroethene	< 2.00	ug/L	6/16/2015	14:22
cis-1,3-Dichloropropene	< 2.00	ug/L	6/16/2015	14:22
Cyclohexane	< 10.0	ug/L	6/16/2015	14:22
Dibromochloromethane	< 2.00	ug/L	6/16/2015	14:22
Dichlorodifluoromethane	< 2.00	ug/L	6/16/2015	14:22

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP4-L-060915
Lab Sample ID: 152324-09 **Date Sampled:** 6/9/2015
Matrix: Water **Date Received:** 6/10/2015

Ethylbenzene	< 2.00	ug/L	6/16/2015	14:22
Freon 113	< 2.00	ug/L	6/16/2015	14:22
Isopropylbenzene	< 2.00	ug/L	6/16/2015	14:22
m,p-Xylene	< 2.00	ug/L	6/16/2015	14:22
Methyl acetate	< 2.00	ug/L	6/16/2015	14:22
Methyl tert-butyl Ether	< 2.00	ug/L	6/16/2015	14:22
Methylcyclohexane	< 2.00	ug/L	6/16/2015	14:22
Methylene chloride	< 5.00	ug/L	6/16/2015	14:22
o-Xylene	< 2.00	ug/L	6/16/2015	14:22
Styrene	< 5.00	ug/L	6/16/2015	14:22
Tetrachloroethene	< 2.00	ug/L	6/16/2015	14:22
Toluene	< 2.00	ug/L	6/16/2015	14:22
trans-1,2-Dichloroethene	< 2.00	ug/L	6/16/2015	14:22
trans-1,3-Dichloropropene	< 2.00	ug/L	6/16/2015	14:22
Trichloroethene	< 2.00	ug/L	6/16/2015	14:22
Trichlorofluoromethane	< 2.00	ug/L	6/16/2015	14:22
Vinyl chloride	< 2.00	ug/L	6/16/2015	14:22

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**104**	82.3 - 115		6/16/2015	14:22
4-Bromofluorobenzene	**86.4**	85.5 - 111		6/16/2015	14:22
Pentafluorobenzene	**101**	91.2 - 107		6/16/2015	14:22
Toluene-D8	**97.6**	90.9 - 108		6/16/2015	14:22

Method Reference(s): EPA 8260C
EPA 5030
Data File: x23754.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, June 18, 2015

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP5-L-060915
Lab Sample ID: 152324-10 **Date Sampled:** 6/9/2015
Matrix: Water **Date Received:** 6/10/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.000474**	mg/L		6/16/2015 10:31

Method Reference(s): EPA 7470A
Preparation Date: 6/15/2015
Data File: Hg150616A

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**0.0188**	mg/L		6/16/2015 17:10
Barium	< 0.100	mg/L		6/16/2015 17:10
Cadmium	< 0.00500	mg/L		6/16/2015 17:10
Chromium	**0.0459**	mg/L	B	6/16/2015 17:10
Lead	**0.0189**	mg/L		6/16/2015 17:10
Selenium	**0.0245**	mg/L		6/16/2015 17:10
Silver	< 0.0100	mg/L		6/16/2015 17:10

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 6/12/2015
Data File: 061615b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 1.00	ug/L		6/15/2015 06:51
PCB-1221	< 1.00	ug/L		6/15/2015 06:51
PCB-1232	< 1.00	ug/L		6/15/2015 06:51
PCB-1242	< 1.00	ug/L		6/15/2015 06:51
PCB-1248	< 1.00	ug/L		6/15/2015 06:51
PCB-1254	< 1.00	ug/L		6/15/2015 06:51
PCB-1260	< 1.00	ug/L		6/15/2015 06:51
PCB-1262	< 1.00	ug/L		6/15/2015 06:51
PCB-1268	< 1.00	ug/L		6/15/2015 06:51

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP5-L-060915
Lab Sample ID: 152324-10 **Date Sampled:** 6/9/2015
Matrix: Water **Date Received:** 6/10/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**43.0**	28.7 - 139		6/15/2015 06:51
Tetrachloro-m-xylene	**47.9**	0 - 110		6/15/2015 06:51

Method Reference(s): EPA 8082A
EPA 3510C
Preparation Date: 6/12/2015

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 50.0	ug/L		6/15/2015 16:40
1,2,4,5-Tetrachlorobenzene	< 50.0	ug/L		6/15/2015 16:40
1,2,4-Trichlorobenzene	< 50.0	ug/L		6/15/2015 16:40
1,2-Dichlorobenzene	< 50.0	ug/L		6/15/2015 16:40
1,3-Dichlorobenzene	< 50.0	ug/L		6/15/2015 16:40
1,4-Dichlorobenzene	< 50.0	ug/L		6/15/2015 16:40
2,3,4,6-Tetrachlorophenol	< 50.0	ug/L		6/15/2015 16:40
2,4,5-Trichlorophenol	< 100	ug/L		6/15/2015 16:40
2,4,6-Trichlorophenol	< 50.0	ug/L		6/15/2015 16:40
2,4-Dichlorophenol	< 50.0	ug/L		6/15/2015 16:40
2,4-Dimethylphenol	< 50.0	ug/L		6/15/2015 16:40
2,4-Dinitrophenol	< 100	ug/L		6/15/2015 16:40
2,4-Dinitrotoluene	< 50.0	ug/L		6/15/2015 16:40
2,6-Dinitrotoluene	< 50.0	ug/L		6/15/2015 16:40
2-Chloronaphthalene	< 50.0	ug/L		6/15/2015 16:40
2-Chlorophenol	< 50.0	ug/L		6/15/2015 16:40
2-Methylnapthalene	< 50.0	ug/L		6/15/2015 16:40
2-Methylphenol	< 50.0	ug/L		6/15/2015 16:40
2-Nitroaniline	< 100	ug/L		6/15/2015 16:40
2-Nitrophenol	< 50.0	ug/L		6/15/2015 16:40
3&4-Methylphenol	< 50.0	ug/L		6/15/2015 16:40
3,3'-Dichlorobenzidine	< 50.0	ug/L		6/15/2015 16:40
3-Nitroaniline	< 100	ug/L		6/15/2015 16:40
4,6-Dinitro-2-methylphenol	< 100	ug/L		6/15/2015 16:40

Sample Identifier:	NA-AP5-L-060915		
Lab Sample ID:	152324-10	**Date Sampled:**	6/9/2015
Matrix:	Water	**Date Received:**	6/10/2015

4-Bromophenyl phenyl ether	< 50.0	ug/L	6/15/2015 16:40
4-Chloro-3-methylphenol	< 50.0	ug/L	6/15/2015 16:40
4-Chloroaniline	< 50.0	ug/L	6/15/2015 16:40
4-Chlorophenyl phenyl ether	< 50.0	ug/L	6/15/2015 16:40
4-Nitroaniline	< 100	ug/L	6/15/2015 16:40
4-Nitrophenol	< 100	ug/L	6/15/2015 16:40
Acenaphthene	< 50.0	ug/L	6/15/2015 16:40
Acenaphthylene	< 50.0	ug/L	6/15/2015 16:40
Acetophenone	< 50.0	ug/L	6/15/2015 16:40
Anthracene	< 50.0	ug/L	6/15/2015 16:40
Atrazine	< 50.0	ug/L	6/15/2015 16:40
Benzaldehyde	< 50.0	ug/L	6/15/2015 16:40
Benzo (a) anthracene	< 50.0	ug/L	6/15/2015 16:40
Benzo (a) pyrene	< 50.0	ug/L	6/15/2015 16:40
Benzo (b) fluoranthene	< 50.0	ug/L	6/15/2015 16:40
Benzo (g,h,i) perylene	< 50.0	ug/L	6/15/2015 16:40
Benzo (k) fluoranthene	< 50.0	ug/L	6/15/2015 16:40
Bis (2-chloroethoxy) methane	< 50.0	ug/L	6/15/2015 16:40
Bis (2-chloroethyl) ether	< 50.0	ug/L	6/15/2015 16:40
Bis (2-chloroisopropyl) ether	< 50.0	ug/L	6/15/2015 16:40
Bis (2-ethylhexyl) phthalate	< 50.0	ug/L	6/15/2015 16:40
Butylbenzylphthalate	< 50.0	ug/L	6/15/2015 16:40
Caprolactam	< 50.0	ug/L	6/15/2015 16:40
Carbazole	< 50.0	ug/L	6/15/2015 16:40
Chrysene	< 50.0	ug/L	6/15/2015 16:40
Dibenz (a,h) anthracene	< 50.0	ug/L	6/15/2015 16:40
Dibenzofuran	< 50.0	ug/L	6/15/2015 16:40
Diethyl phthalate	< 50.0	ug/L	6/15/2015 16:40
Dimethyl phthalate	< 100	ug/L	6/15/2015 16:40
Di-n-butyl phthalate	< 50.0	ug/L	6/15/2015 16:40
Di-n-octylphthalate	< 50.0	ug/L	6/15/2015 16:40
Fluoranthene	< 50.0	ug/L	6/15/2015 16:40

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP5-L-060915
Lab Sample ID: 152324-10 **Date Sampled:** 6/9/2015
Matrix: Water **Date Received:** 6/10/2015

Fluorene	< 50.0	ug/L		6/15/2015 16:40
Hexachlorobenzene	< 50.0	ug/L		6/15/2015 16:40
Hexachlorobutadiene	< 50.0	ug/L		6/15/2015 16:40
Hexachlorocyclopentadiene	< 50.0	ug/L		6/15/2015 16:40
Hexachloroethane	< 50.0	ug/L		6/15/2015 16:40
Indeno (1,2,3-cd) pyrene	< 50.0	ug/L		6/15/2015 16:40
Isophorone	< 50.0	ug/L		6/15/2015 16:40
Naphthalene	< 50.0	ug/L		6/15/2015 16:40
Nitrobenzene	< 50.0	ug/L		6/15/2015 16:40
N-Nitroso-di-n-propylamine	< 50.0	ug/L		6/15/2015 16:40
N-Nitrosodiphenylamine	< 50.0	ug/L		6/15/2015 16:40
Pentachlorophenol	< 100	ug/L		6/15/2015 16:40
Phenanthrene	< 50.0	ug/L		6/15/2015 16:40
Phenol	< 50.0	ug/L		6/15/2015 16:40
Pyrene	< 50.0	ug/L		6/15/2015 16:40

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**77.7**	27.2 - 132		6/15/2015 16:40
2-Fluorobiphenyl	**65.8**	20.2 - 94.7		6/15/2015 16:40
2-Fluorophenol	**62.4**	5.5 - 92.9		6/15/2015 16:40
Nitrobenzene-d5	**66.9**	44.4 - 95.7		6/15/2015 16:40
Phenol-d5	**64.6**	0 - 90.8		6/15/2015 16:40
Terphenyl-d14	**63.5**	55.1 - 112		6/15/2015 16:40

Reporting limit elevated due to limited sample volume

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 6/15/2015
Data File: B05834.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		6/16/2015 14:45
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		6/16/2015 14:45
1,1,2-Trichloroethane	< 2.00	ug/L		6/16/2015 14:45

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier:	NA-AP5-L-060915		
Lab Sample ID:	152324-10	**Date Sampled:**	6/9/2015
Matrix:	Water	**Date Received:**	6/10/2015

1,1-Dichloroethane	< 2.00	ug/L	6/16/2015	14:45
1,1-Dichloroethene	< 2.00	ug/L	6/16/2015	14:45
1,2,3-Trichlorobenzene	< 5.00	ug/L	6/16/2015	14:45
1,2,4-Trichlorobenzene	< 5.00	ug/L	6/16/2015	14:45
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	6/16/2015	14:45
1,2-Dibromoethane	< 2.00	ug/L	6/16/2015	14:45
1,2-Dichlorobenzene	< 2.00	ug/L	6/16/2015	14:45
1,2-Dichloroethane	< 2.00	ug/L	6/16/2015	14:45
1,2-Dichloropropane	< 2.00	ug/L	6/16/2015	14:45
1,3-Dichlorobenzene	< 2.00	ug/L	6/16/2015	14:45
1,4-Dichlorobenzene	< 2.00	ug/L	6/16/2015	14:45
1,4-dioxane	< 20.0	ug/L	6/16/2015	14:45
2-Butanone	< 10.0	ug/L	6/16/2015	14:45
2-Hexanone	< 5.00	ug/L	6/16/2015	14:45
4-Methyl-2-pentanone	**11.8**	ug/L	6/16/2015	14:45
Acetone	< 10.0	ug/L	6/16/2015	14:45
Benzene	< 0.700	ug/L	6/16/2015	14:45
Bromochloromethane	< 5.00	ug/L	6/16/2015	14:45
Bromodichloromethane	< 2.00	ug/L	6/16/2015	14:45
Bromoform	< 5.00	ug/L	6/16/2015	14:45
Bromomethane	< 2.00	ug/L	6/16/2015	14:45
Carbon disulfide	< 2.00	ug/L	6/16/2015	14:45
Carbon Tetrachloride	< 2.00	ug/L	6/16/2015	14:45
Chlorobenzene	< 2.00	ug/L	6/16/2015	14:45
Chloroethane	< 2.00	ug/L	6/16/2015	14:45
Chloroform	< 2.00	ug/L	6/16/2015	14:45
Chloromethane	< 2.00	ug/L	6/16/2015	14:45
cis-1,2-Dichloroethene	< 2.00	ug/L	6/16/2015	14:45
cis-1,3-Dichloropropene	< 2.00	ug/L	6/16/2015	14:45
Cyclohexane	< 10.0	ug/L	6/16/2015	14:45
Dibromochloromethane	< 2.00	ug/L	6/16/2015	14:45
Dichlorodifluoromethane	< 2.00	ug/L	6/16/2015	14:45

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP5-L-060915
Lab Sample ID: 152324-10 **Date Sampled:** 6/9/2015
Matrix: Water **Date Received:** 6/10/2015

Ethylbenzene	< 2.00	ug/L	6/16/2015	14:45
Freon 113	< 2.00	ug/L	6/16/2015	14:45
Isopropylbenzene	< 2.00	ug/L	6/16/2015	14:45
m,p-Xylene	< 2.00	ug/L	6/16/2015	14:45
Methyl acetate	< 2.00	ug/L	6/16/2015	14:45
Methyl tert-butyl Ether	< 2.00	ug/L	6/16/2015	14:45
Methylcyclohexane	< 2.00	ug/L	6/16/2015	14:45
Methylene chloride	< 5.00	ug/L	6/16/2015	14:45
o-Xylene	< 2.00	ug/L	6/16/2015	14:45
Styrene	< 5.00	ug/L	6/16/2015	14:45
Tetrachloroethene	< 2.00	ug/L	6/16/2015	14:45
Toluene	< 2.00	ug/L	6/16/2015	14:45
trans-1,2-Dichloroethene	< 2.00	ug/L	6/16/2015	14:45
trans-1,3-Dichloropropene	< 2.00	ug/L	6/16/2015	14:45
Trichloroethene	< 2.00	ug/L	6/16/2015	14:45
Trichlorofluoromethane	< 2.00	ug/L	6/16/2015	14:45
Vinyl chloride	< 2.00	ug/L	6/16/2015	14:45

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**104**	82.3 - 115		6/16/2015	14:45
4-Bromofluorobenzene	**89.2**	85.5 - 111		6/16/2015	14:45
Pentafluorobenzene	**98.0**	91.2 - 107		6/16/2015	14:45
Toluene-D8	**98.1**	90.9 - 108		6/16/2015	14:45

Method Reference(s): EPA 8260C
EPA 5030
Data File: x23755.D

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Report Prepared Thursday, June 18, 2015

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP7-L-060915
Lab Sample ID: 152324-11 **Date Sampled:** 6/9/2015
Matrix: Oil **Date Received:** 6/10/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Barium	**7.19**	mg/Kg		6/16/2015 20:15
Cadmium	< 0.234	mg/Kg		6/16/2015 20:15
Chromium	**0.757**	mg/Kg		6/16/2015 20:15
Lead	**1.81**	mg/Kg		6/16/2015 20:15

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 6/12/2015
Data File: 061615b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.938	mg/Kg		6/17/2015 14:18
PCB-1221	< 0.938	mg/Kg		6/17/2015 14:18
PCB-1232	< 0.938	mg/Kg		6/17/2015 14:18
PCB-1242	< 0.938	mg/Kg		6/17/2015 14:18
PCB-1248	< 0.938	mg/Kg		6/17/2015 14:18
PCB-1254	< 0.938	mg/Kg		6/17/2015 14:18
PCB-1260	< 0.938	mg/Kg		6/17/2015 14:18
PCB-1262	< 0.938	mg/Kg		6/17/2015 14:18
PCB-1268	< 0.938	mg/Kg		6/17/2015 14:18

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**30.8**	15.9 - 131		6/17/2015 14:18
Tetrachloro-m-xylene	**60.2**	30.3 - 87.5		6/17/2015 14:18

Method Reference(s): EPA 8082A
EPA 3580A
Preparation Date: 6/15/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 990	ug/Kg		6/15/2015 21:29
1,1,2,2-Tetrachloroethane	< 990	ug/Kg		6/15/2015 21:29

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier:	NA-AP7-L-060915		
Lab Sample ID:	152324-11	**Date Sampled:**	6/9/2015
Matrix:	Oil	**Date Received:**	6/10/2015

1,1,2-Trichloroethane	< 990	ug/Kg	6/15/2015 21:29
1,1-Dichloroethane	< 990	ug/Kg	6/15/2015 21:29
1,1-Dichloroethene	< 990	ug/Kg	6/15/2015 21:29
1,2,3-Trichlorobenzene	< 2480	ug/Kg	6/15/2015 21:29
1,2,4-Trichlorobenzene	< 2480	ug/Kg	6/15/2015 21:29
1,2-Dibromo-3-Chloropropane	< 4950	ug/Kg	6/15/2015 21:29
1,2-Dibromoethane	< 990	ug/Kg	6/15/2015 21:29
1,2-Dichlorobenzene	< 990	ug/Kg	6/15/2015 21:29
1,2-Dichloroethane	< 990	ug/Kg	6/15/2015 21:29
1,2-Dichloropropane	< 990	ug/Kg	6/15/2015 21:29
1,3-Dichlorobenzene	< 990	ug/Kg	6/15/2015 21:29
1,4-Dichlorobenzene	< 990	ug/Kg	6/15/2015 21:29
1,4-dioxane	< 9900	ug/Kg	6/15/2015 21:29
2-Butanone	< 4950	ug/Kg	6/15/2015 21:29
2-Hexanone	< 2480	ug/Kg	6/15/2015 21:29
4-Methyl-2-pentanone	< 2480	ug/Kg	6/15/2015 21:29
Acetone	< 4950	ug/Kg	6/15/2015 21:29
Benzene	< 990	ug/Kg	6/15/2015 21:29
Bromochloromethane	< 2480	ug/Kg	6/15/2015 21:29
Bromodichloromethane	< 990	ug/Kg	6/15/2015 21:29
Bromoform	< 2480	ug/Kg	6/15/2015 21:29
Bromomethane	< 990	ug/Kg	6/15/2015 21:29
Carbon disulfide	< 990	ug/Kg	6/15/2015 21:29
Carbon Tetrachloride	< 990	ug/Kg	6/15/2015 21:29
Chlorobenzene	< 990	ug/Kg	6/15/2015 21:29
Chloroethane	< 990	ug/Kg	6/15/2015 21:29
Chloroform	< 990	ug/Kg	6/15/2015 21:29
Chloromethane	< 990	ug/Kg	6/15/2015 21:29
cis-1,2-Dichloroethene	< 990	ug/Kg	6/15/2015 21:29
cis-1,3-Dichloropropene	< 990	ug/Kg	6/15/2015 21:29
Cyclohexane	< 4950	ug/Kg	6/15/2015 21:29
Dibromochloromethane	< 990	ug/Kg	6/15/2015 21:29

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP7-L-060915
Lab Sample ID: 152324-11 **Date Sampled:** 6/9/2015
Matrix: Oil **Date Received:** 6/10/2015

Dichlorodifluoromethane	< 990	ug/Kg	6/15/2015	21:29
Ethylbenzene	< 990	ug/Kg	6/15/2015	21:29
Freon 113	< 990	ug/Kg	6/15/2015	21:29
Isopropylbenzene	< 990	ug/Kg	6/15/2015	21:29
m,p-Xylene	< 990	ug/Kg	6/15/2015	21:29
Methyl acetate	< 990	ug/Kg	6/15/2015	21:29
Methyl tert-butyl Ether	< 990	ug/Kg	6/15/2015	21:29
Methylcyclohexane	< 990	ug/Kg	6/15/2015	21:29
Methylene chloride	< 2480	ug/Kg	6/15/2015	21:29
o-Xylene	< 990	ug/Kg	6/15/2015	21:29
Styrene	< 2480	ug/Kg	6/15/2015	21:29
Tetrachloroethene	< 990	ug/Kg	6/15/2015	21:29
Toluene	< 990	ug/Kg	6/15/2015	21:29
trans-1,2-Dichloroethene	< 990	ug/Kg	6/15/2015	21:29
trans-1,3-Dichloropropene	< 990	ug/Kg	6/15/2015	21:29
Trichloroethene	< 990	ug/Kg	6/15/2015	21:29
Trichlorofluoromethane	< 990	ug/Kg	6/15/2015	21:29
Vinyl chloride	< 990	ug/Kg	6/15/2015	21:29

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**92.3**	80.6 - 125		6/15/2015	21:29
4-Bromofluorobenzene	**93.2**	86.6 - 111		6/15/2015	21:29
Pentafluorobenzene	**99.3**	90.9 - 107		6/15/2015	21:29
Toluene-D8	**98.2**	90.8 - 109		6/15/2015	21:29

Method Reference(s): EPA 8260C
EPA 3585
Data File: x23713.D

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Report Prepared Thursday, June 18, 2015

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP15-L-060915
Lab Sample ID: 152324-12 **Date Sampled:** 6/9/2015
Matrix: Sludge **Date Received:** 6/10/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Barium	**24.3**	mg/Kg		6/16/2015 20:19
Cadmium	**1.05**	mg/Kg		6/16/2015 20:19
Chromium	**7.09**	mg/Kg		6/16/2015 20:19
Lead	**47.5**	mg/Kg		6/16/2015 20:19

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 6/12/2015
Data File: 061615b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.561	mg/Kg		6/17/2015 14:42
PCB-1221	< 0.561	mg/Kg		6/17/2015 14:42
PCB-1232	< 0.561	mg/Kg		6/17/2015 14:42
PCB-1242	< 0.561	mg/Kg		6/17/2015 14:42
PCB-1248	< 0.561	mg/Kg		6/17/2015 14:42
PCB-1254	< 0.561	mg/Kg		6/17/2015 14:42
PCB-1260	< 0.561	mg/Kg		6/17/2015 14:42
PCB-1262	< 0.561	mg/Kg		6/17/2015 14:42
PCB-1268	< 0.561	mg/Kg		6/17/2015 14:42

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**29.7**	15.9 - 131		6/17/2015 14:42
Tetrachloro-m-xylene	**54.3**	30.3 - 87.5		6/17/2015 14:42

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 6/16/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 310	ug/Kg		6/17/2015 13:16
1,1,2,2-Tetrachloroethane	< 310	ug/Kg		6/17/2015 13:16

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier:	NA-AP15-L-060915		
Lab Sample ID:	152324-12	**Date Sampled:**	6/9/2015
Matrix:	Sludge	**Date Received:**	6/10/2015

1,1,2-Trichloroethane	< 310	ug/Kg	6/17/2015	13:16
1,1-Dichloroethane	< 310	ug/Kg	6/17/2015	13:16
1,1-Dichloroethene	< 310	ug/Kg	6/17/2015	13:16
1,2,3-Trichlorobenzene	< 774	ug/Kg	6/17/2015	13:16
1,2,4-Trichlorobenzene	< 774	ug/Kg	6/17/2015	13:16
1,2-Dibromo-3-Chloropropane	< 1550	ug/Kg	6/17/2015	13:16
1,2-Dibromoethane	< 310	ug/Kg	6/17/2015	13:16
1,2-Dichlorobenzene	< 310	ug/Kg	6/17/2015	13:16
1,2-Dichloroethane	< 310	ug/Kg	6/17/2015	13:16
1,2-Dichloropropane	< 310	ug/Kg	6/17/2015	13:16
1,3-Dichlorobenzene	< 310	ug/Kg	6/17/2015	13:16
1,4-Dichlorobenzene	< 310	ug/Kg	6/17/2015	13:16
1,4-dioxane	< 3100	ug/Kg	6/17/2015	13:16
2-Butanone	< 1550	ug/Kg	6/17/2015	13:16
2-Hexanone	< 774	ug/Kg	6/17/2015	13:16
4-Methyl-2-pentanone	< 774	ug/Kg	6/17/2015	13:16
Acetone	**7490**	ug/Kg	6/17/2015	13:16
Benzene	< 310	ug/Kg	6/17/2015	13:16
Bromochloromethane	< 774	ug/Kg	6/17/2015	13:16
Bromodichloromethane	< 310	ug/Kg	6/17/2015	13:16
Bromoform	< 774	ug/Kg	6/17/2015	13:16
Bromomethane	< 310	ug/Kg	6/17/2015	13:16
Carbon disulfide	< 310	ug/Kg	6/17/2015	13:16
Carbon Tetrachloride	< 310	ug/Kg	6/17/2015	13:16
Chlorobenzene	< 310	ug/Kg	6/17/2015	13:16
Chloroethane	< 310	ug/Kg	6/17/2015	13:16
Chloroform	< 310	ug/Kg	6/17/2015	13:16
Chloromethane	< 310	ug/Kg	6/17/2015	13:16
cis-1,2-Dichloroethene	< 310	ug/Kg	6/17/2015	13:16
cis-1,3-Dichloropropene	< 310	ug/Kg	6/17/2015	13:16
Cyclohexane	< 1550	ug/Kg	6/17/2015	13:16
Dibromochloromethane	< 310	ug/Kg	6/17/2015	13:16

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP15-L-060915
Lab Sample ID: 152324-12 **Date Sampled:** 6/9/2015
Matrix: Sludge **Date Received:** 6/10/2015

Dichlorodifluoromethane	< 310	ug/Kg		6/17/2015	13:16
Ethylbenzene	< 310	ug/Kg		6/17/2015	13:16
Freon 113	< 310	ug/Kg		6/17/2015	13:16
Isopropylbenzene	< 310	ug/Kg		6/17/2015	13:16
m,p-Xylene	< 310	ug/Kg		6/17/2015	13:16
Methyl acetate	< 310	ug/Kg		6/17/2015	13:16
Methyl tert-butyl Ether	< 310	ug/Kg		6/17/2015	13:16
Methylcyclohexane	< 310	ug/Kg		6/17/2015	13:16
Methylene chloride	< 774	ug/Kg		6/17/2015	13:16
o-Xylene	< 310	ug/Kg		6/17/2015	13:16
Styrene	< 774	ug/Kg		6/17/2015	13:16
Tetrachloroethene	< 310	ug/Kg		6/17/2015	13:16
Toluene	< 310	ug/Kg		6/17/2015	13:16
trans-1,2-Dichloroethene	< 310	ug/Kg		6/17/2015	13:16
trans-1,3-Dichloropropene	< 310	ug/Kg		6/17/2015	13:16
Trichloroethene	< 310	ug/Kg		6/17/2015	13:16
Trichlorofluoromethane	< 310	ug/Kg		6/17/2015	13:16
Vinyl chloride	< 310	ug/Kg		6/17/2015	13:16

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**108**	80.6 - 125		6/17/2015	13:16
4-Bromofluorobenzene	**82.0**	86.6 - 111	*	6/17/2015	13:16
Pentafluorobenzene	**91.5**	90.9 - 107		6/17/2015	13:16
Toluene-D8	**86.3**	90.8 - 109	*	6/17/2015	13:16

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035A

Data File: x23787.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP16-S-060915
Lab Sample ID: 152324-13 **Date Sampled:** 6/9/2015
Matrix: Solid **Date Received:** 6/10/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0890**	mg/Kg		6/16/2015 14:24

Method Reference(s): EPA 7471B
Preparation Date: 6/15/2015
Data File: Hg150616C

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**82.5**	mg/Kg		6/16/2015 20:40
Barium	**865**	mg/Kg		6/16/2015 20:40
Cadmium	**24.6**	mg/Kg		6/16/2015 20:40
Chromium	**1310**	mg/Kg		6/16/2015 20:40
Lead	**77.1**	mg/Kg		6/16/2015 20:40
Selenium	**29.1**	mg/Kg		6/16/2015 20:40
Silver	< 10.5	mg/Kg		6/17/2015 11:05

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 6/12/2015
Data File: 061615b

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 1410	ug/Kg		6/16/2015 17:07
1,2,4,5-Tetrachlorobenzene	< 1410	ug/Kg		6/16/2015 17:07
1,2,4-Trichlorobenzene	< 1410	ug/Kg		6/16/2015 17:07
1,2-Dichlorobenzene	< 1410	ug/Kg		6/16/2015 17:07
1,3-Dichlorobenzene	< 1410	ug/Kg		6/16/2015 17:07
1,4-Dichlorobenzene	< 1410	ug/Kg		6/16/2015 17:07
2,3,4,6-Tetrachlorophenol	< 1410	ug/Kg		6/16/2015 17:07
2,4,5-Trichlorophenol	< 2820	ug/Kg		6/16/2015 17:07
2,4,6-Trichlorophenol	< 1410	ug/Kg		6/16/2015 17:07
2,4-Dichlorophenol	< 1410	ug/Kg		6/16/2015 17:07

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier:	NA-AP16-S-060915		
Lab Sample ID:	152324-13	**Date Sampled:**	6/9/2015
Matrix:	Solid	**Date Received:**	6/10/2015

2,4-Dimethylphenol	< 1410	ug/Kg	6/16/2015	17:07
2,4-Dinitrophenol	< 2820	ug/Kg	6/16/2015	17:07
2,4-Dinitrotoluene	< 1410	ug/Kg	6/16/2015	17:07
2,6-Dinitrotoluene	< 1410	ug/Kg	6/16/2015	17:07
2-Chloronaphthalene	< 1410	ug/Kg	6/16/2015	17:07
2-Chlorophenol	< 1410	ug/Kg	6/16/2015	17:07
2-Methylnapthalene	< 1410	ug/Kg	6/16/2015	17:07
2-Methylphenol	< 1410	ug/Kg	6/16/2015	17:07
2-Nitroaniline	< 2820	ug/Kg	6/16/2015	17:07
2-Nitrophenol	< 1410	ug/Kg	6/16/2015	17:07
3&4-Methylphenol	< 1410	ug/Kg	6/16/2015	17:07
3,3'-Dichlorobenzidine	< 1410	ug/Kg	6/16/2015	17:07
3-Nitroaniline	< 2820	ug/Kg	6/16/2015	17:07
4,6-Dinitro-2-methylphenol	< 2820	ug/Kg	6/16/2015	17:07
4-Bromophenyl phenyl ether	< 1410	ug/Kg	6/16/2015	17:07
4-Chloro-3-methylphenol	< 1410	ug/Kg	6/16/2015	17:07
4-Chloroaniline	< 1410	ug/Kg	6/16/2015	17:07
4-Chlorophenyl phenyl ether	< 1410	ug/Kg	6/16/2015	17:07
4-Nitroaniline	< 2820	ug/Kg	6/16/2015	17:07
4-Nitrophenol	< 2820	ug/Kg	6/16/2015	17:07
Acenaphthene	< 1410	ug/Kg	6/16/2015	17:07
Acenaphthylene	< 1410	ug/Kg	6/16/2015	17:07
Acetophenone	< 1410	ug/Kg	6/16/2015	17:07
Anthracene	< 1410	ug/Kg	6/16/2015	17:07
Atrazine	< 1410	ug/Kg	6/16/2015	17:07
Benzaldehyde	< 1410	ug/Kg	6/16/2015	17:07
Benzo (a) anthracene	**2460**	ug/Kg	6/16/2015	17:07
Benzo (a) pyrene	**2030**	ug/Kg	6/16/2015	17:07
Benzo (b) fluoranthene	**3630**	ug/Kg	6/16/2015	17:07
Benzo (g,h,i) perylene	**1610**	ug/Kg	6/16/2015	17:07
Benzo (k) fluoranthene	< 1410	ug/Kg	6/16/2015	17:07
Bis (2-chloroethoxy) methane	< 1410	ug/Kg	6/16/2015	17:07

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP16-S-060915
Lab Sample ID: 152324-13 **Date Sampled:** 6/9/2015
Matrix: Solid **Date Received:** 6/10/2015

Bis (2-chloroethyl) ether	< 1410	ug/Kg	6/16/2015	17:07
Bis (2-chloroisopropyl) ether	< 1410	ug/Kg	6/16/2015	17:07
Bis (2-ethylhexyl) phthalate	< 1410	ug/Kg	6/16/2015	17:07
Butylbenzylphthalate	< 1410	ug/Kg	6/16/2015	17:07
Caprolactam	< 1410	ug/Kg	6/16/2015	17:07
Carbazole	< 1410	ug/Kg	6/16/2015	17:07
Chrysene	**3240**	ug/Kg	6/16/2015	17:07
Dibenz (a,h) anthracene	< 1410	ug/Kg	6/16/2015	17:07
Dibenzofuran	< 1410	ug/Kg	6/16/2015	17:07
Diethyl phthalate	< 1410	ug/Kg	6/16/2015	17:07
Dimethyl phthalate	< 2820	ug/Kg	6/16/2015	17:07
Di-n-butyl phthalate	< 1410	ug/Kg	6/16/2015	17:07
Di-n-octylphthalate	< 1410	ug/Kg	6/16/2015	17:07
Fluoranthene	**9050**	ug/Kg	6/16/2015	17:07
Fluorene	< 1410	ug/Kg	6/16/2015	17:07
Hexachlorobenzene	< 1410	ug/Kg	6/16/2015	17:07
Hexachlorobutadiene	< 1410	ug/Kg	6/16/2015	17:07
Hexachlorocyclopentadiene	< 1410	ug/Kg	6/16/2015	17:07
Hexachloroethane	< 1410	ug/Kg	6/16/2015	17:07
Indeno (1,2,3-cd) pyrene	**1950**	ug/Kg	6/16/2015	17:07
Isophorone	< 1410	ug/Kg	6/16/2015	17:07
Naphthalene	< 1410	ug/Kg	6/16/2015	17:07
Nitrobenzene	< 1410	ug/Kg	6/16/2015	17:07
N-Nitroso-di-n-propylamine	< 1410	ug/Kg	6/16/2015	17:07
N-Nitrosodiphenylamine	< 1410	ug/Kg	6/16/2015	17:07
Pentachlorophenol	< 2820	ug/Kg	6/16/2015	17:07
Phenanthrene	**8590**	ug/Kg	6/16/2015	17:07
Phenol	< 1410	ug/Kg	6/16/2015	17:07
Pyrene	**5270**	ug/Kg	6/16/2015	17:07

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP16-S-060915
Lab Sample ID: 152324-13 **Date Sampled:** 6/9/2015
Matrix: Solid **Date Received:** 6/10/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**66.5**	41.6 - 115		6/16/2015 17:07
2-Fluorobiphenyl	**68.1**	35.9 - 103		6/16/2015 17:07
2-Fluorophenol	**53.4**	39.9 - 87.9		6/16/2015 17:07
Nitrobenzene-d5	**58.7**	37.2 - 90.6		6/16/2015 17:07
Phenol-d5	**61.3**	42.3 - 90.6		6/16/2015 17:07
Terphenyl-d14	**77.6**	58.2 - 113		6/16/2015 17:07

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 6/16/2015
Data File: B05858.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, June 18, 2015

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP17-L-060915
Lab Sample ID: 152324-14 **Date Sampled:** 6/9/2015
Matrix: Sludge **Date Received:** 6/10/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Barium	**71.6**	mg/Kg		6/16/2015 20:43
Cadmium	**0.416**	mg/Kg		6/16/2015 20:43
Chromium	**6.84**	mg/Kg		6/16/2015 20:43
Lead	**37.8**	mg/Kg		6/16/2015 20:43

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 6/12/2015
Data File: 061615b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.871	mg/Kg		6/17/2015 15:05
PCB-1221	< 0.871	mg/Kg		6/17/2015 15:05
PCB-1232	< 0.871	mg/Kg		6/17/2015 15:05
PCB-1242	< 0.871	mg/Kg		6/17/2015 15:05
PCB-1248	< 0.871	mg/Kg		6/17/2015 15:05
PCB-1254	< 0.871	mg/Kg		6/17/2015 15:05
PCB-1260	< 0.871	mg/Kg		6/17/2015 15:05
PCB-1262	< 0.871	mg/Kg		6/17/2015 15:05
PCB-1268	< 0.871	mg/Kg		6/17/2015 15:05

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**40.4**	30.5 - 159		6/17/2015 15:05
Tetrachloro-m-xylene	**44.6**	23.2 - 144		6/17/2015 15:05

Reporting limit elevated due to sample matrix
Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 6/16/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 9.17	ug/Kg		6/17/2015 12:52

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP17-L-060915
Lab Sample ID: 152324-14 **Date Sampled:** 6/9/2015
Matrix: Sludge **Date Received:** 6/10/2015

1,1,2,2-Tetrachloroethane	< 9.17	ug/Kg	6/17/2015	12:52
1,1,2-Trichloroethane	< 9.17	ug/Kg	6/17/2015	12:52
1,1-Dichloroethane	< 9.17	ug/Kg	6/17/2015	12:52
1,1-Dichloroethene	< 9.17	ug/Kg	6/17/2015	12:52
1,2,3-Trichlorobenzene	< 22.9	ug/Kg	6/17/2015	12:52
1,2,4-Trichlorobenzene	< 22.9	ug/Kg	6/17/2015	12:52
1,2-Dibromo-3-Chloropropane	< 45.9	ug/Kg	6/17/2015	12:52
1,2-Dibromoethane	< 9.17	ug/Kg	6/17/2015	12:52
1,2-Dichlorobenzene	< 9.17	ug/Kg	6/17/2015	12:52
1,2-Dichloroethane	< 9.17	ug/Kg	6/17/2015	12:52
1,2-Dichloropropane	< 9.17	ug/Kg	6/17/2015	12:52
1,3-Dichlorobenzene	< 9.17	ug/Kg	6/17/2015	12:52
1,4-Dichlorobenzene	< 9.17	ug/Kg	6/17/2015	12:52
1,4-dioxane	< 91.7	ug/Kg	6/17/2015	12:52
2-Butanone	< 45.9	ug/Kg	6/17/2015	12:52
2-Hexanone	< 22.9	ug/Kg	6/17/2015	12:52
4-Methyl-2-pentanone	< 22.9	ug/Kg	6/17/2015	12:52
Acetone	< 45.9	ug/Kg	6/17/2015	12:52
Benzene	< 9.17	ug/Kg	6/17/2015	12:52
Bromochloromethane	< 22.9	ug/Kg	6/17/2015	12:52
Bromodichloromethane	< 9.17	ug/Kg	6/17/2015	12:52
Bromoform	< 22.9	ug/Kg	6/17/2015	12:52
Bromomethane	< 9.17	ug/Kg	6/17/2015	12:52
Carbon disulfide	< 9.17	ug/Kg	6/17/2015	12:52
Carbon Tetrachloride	< 9.17	ug/Kg	6/17/2015	12:52
Chlorobenzene	< 9.17	ug/Kg	6/17/2015	12:52
Chloroethane	< 9.17	ug/Kg	6/17/2015	12:52
Chloroform	< 9.17	ug/Kg	6/17/2015	12:52
Chloromethane	< 9.17	ug/Kg	6/17/2015	12:52
cis-1,2-Dichloroethene	< 9.17	ug/Kg	6/17/2015	12:52
cis-1,3-Dichloropropene	< 9.17	ug/Kg	6/17/2015	12:52
Cyclohexane	< 45.9	ug/Kg	6/17/2015	12:52

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP17-L-060915
Lab Sample ID: 152324-14 **Date Sampled:** 6/9/2015
Matrix: Sludge **Date Received:** 6/10/2015

Dibromochloromethane	< 9.17	ug/Kg		6/17/2015	12:52
Dichlorodifluoromethane	< 9.17	ug/Kg		6/17/2015	12:52
Ethylbenzene	< 9.17	ug/Kg		6/17/2015	12:52
Freon 113	< 9.17	ug/Kg		6/17/2015	12:52
Isopropylbenzene	< 9.17	ug/Kg		6/17/2015	12:52
m,p-Xylene	< 9.17	ug/Kg		6/17/2015	12:52
Methyl acetate	< 9.17	ug/Kg		6/17/2015	12:52
Methyl tert-butyl Ether	< 9.17	ug/Kg		6/17/2015	12:52
Methylcyclohexane	< 9.17	ug/Kg		6/17/2015	12:52
Methylene chloride	< 22.9	ug/Kg		6/17/2015	12:52
o-Xylene	< 9.17	ug/Kg		6/17/2015	12:52
Styrene	< 22.9	ug/Kg		6/17/2015	12:52
Tetrachloroethene	< 9.17	ug/Kg		6/17/2015	12:52
Toluene	< 9.17	ug/Kg		6/17/2015	12:52
trans-1,2-Dichloroethene	< 9.17	ug/Kg		6/17/2015	12:52
trans-1,3-Dichloropropene	< 9.17	ug/Kg		6/17/2015	12:52
Trichloroethene	< 9.17	ug/Kg		6/17/2015	12:52
Trichlorofluoromethane	< 9.17	ug/Kg		6/17/2015	12:52
Vinyl chloride	< 9.17	ug/Kg		6/17/2015	12:52

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**113**	80.6 - 125		6/17/2015	12:52
4-Bromofluorobenzene	**84.2**	86.6 - 111	*	6/17/2015	12:52
Pentafluorobenzene	**99.4**	90.9 - 107		6/17/2015	12:52
Toluene-D8	**92.5**	90.8 - 109		6/17/2015	12:52

Method Reference(s): EPA 8260C
EPA 5035A
Data File: x23786.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP18-L-060915
Lab Sample ID: 152324-15 **Date Sampled:** 6/9/2015
Matrix: Oil **Date Received:** 6/10/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Barium	**31.0**	mg/Kg		6/16/2015 20:47
Cadmium	**0.686**	mg/Kg		6/16/2015 20:47
Chromium	**5.98**	mg/Kg		6/16/2015 20:47
Lead	**30.1**	mg/Kg		6/16/2015 20:47

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 6/12/2015
Data File: 061615b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.940	mg/Kg		6/17/2015 15:29
PCB-1221	< 0.940	mg/Kg		6/17/2015 15:29
PCB-1232	< 0.940	mg/Kg		6/17/2015 15:29
PCB-1242	< 0.940	mg/Kg		6/17/2015 15:29
PCB-1248	< 0.940	mg/Kg		6/17/2015 15:29
PCB-1254	< 0.940	mg/Kg		6/17/2015 15:29
PCB-1260	< 0.940	mg/Kg		6/17/2015 15:29
PCB-1262	< 0.940	mg/Kg		6/17/2015 15:29
PCB-1268	< 0.940	mg/Kg		6/17/2015 15:29

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**37.4**	15.9 - 131		6/17/2015 15:29
Tetrachloro-m-xylene	**71.0**	30.3 - 87.5		6/17/2015 15:29

Method Reference(s): EPA 8082A
EPA 3580A
Preparation Date: 6/15/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 1880	ug/Kg		6/15/2015 21:52
1,1,2,2-Tetrachloroethane	< 1880	ug/Kg		6/15/2015 21:52

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier:	NA-AP18-L-060915		
Lab Sample ID:	152324-15	**Date Sampled:**	6/9/2015
Matrix:	Oil	**Date Received:**	6/10/2015

1,1,2-Trichloroethane	< 1880	ug/Kg	6/15/2015 21:52
1,1-Dichloroethane	< 1880	ug/Kg	6/15/2015 21:52
1,1-Dichloroethene	< 1880	ug/Kg	6/15/2015 21:52
1,2,3-Trichlorobenzene	< 4700	ug/Kg	6/15/2015 21:52
1,2,4-Trichlorobenzene	< 4700	ug/Kg	6/15/2015 21:52
1,2-Dibromo-3-Chloropropane	< 9400	ug/Kg	6/15/2015 21:52
1,2-Dibromoethane	< 1880	ug/Kg	6/15/2015 21:52
1,2-Dichlorobenzene	< 1880	ug/Kg	6/15/2015 21:52
1,2-Dichloroethane	< 1880	ug/Kg	6/15/2015 21:52
1,2-Dichloropropane	< 1880	ug/Kg	6/15/2015 21:52
1,3-Dichlorobenzene	< 1880	ug/Kg	6/15/2015 21:52
1,4-Dichlorobenzene	< 1880	ug/Kg	6/15/2015 21:52
1,4-dioxane	< 18800	ug/Kg	6/15/2015 21:52
2-Butanone	< 9400	ug/Kg	6/15/2015 21:52
2-Hexanone	< 4700	ug/Kg	6/15/2015 21:52
4-Methyl-2-pentanone	< 4700	ug/Kg	6/15/2015 21:52
Acetone	< 9400	ug/Kg	6/15/2015 21:52
Benzene	< 1880	ug/Kg	6/15/2015 21:52
Bromochloromethane	< 4700	ug/Kg	6/15/2015 21:52
Bromodichloromethane	< 1880	ug/Kg	6/15/2015 21:52
Bromoform	< 4700	ug/Kg	6/15/2015 21:52
Bromomethane	< 1880	ug/Kg	6/15/2015 21:52
Carbon disulfide	< 1880	ug/Kg	6/15/2015 21:52
Carbon Tetrachloride	< 1880	ug/Kg	6/15/2015 21:52
Chlorobenzene	< 1880	ug/Kg	6/15/2015 21:52
Chloroethane	< 1880	ug/Kg	6/15/2015 21:52
Chloroform	< 1880	ug/Kg	6/15/2015 21:52
Chloromethane	< 1880	ug/Kg	6/15/2015 21:52
cis-1,2-Dichloroethene	< 1880	ug/Kg	6/15/2015 21:52
cis-1,3-Dichloropropene	< 1880	ug/Kg	6/15/2015 21:52
Cyclohexane	< 9400	ug/Kg	6/15/2015 21:52
Dibromochloromethane	< 1880	ug/Kg	6/15/2015 21:52

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP18-L-060915
Lab Sample ID: 152324-15 **Date Sampled:** 6/9/2015
Matrix: Oil **Date Received:** 6/10/2015

Dichlorodifluoromethane	< 1880	ug/Kg	6/15/2015	21:52
Ethylbenzene	< 1880	ug/Kg	6/15/2015	21:52
Freon 113	< 1880	ug/Kg	6/15/2015	21:52
Isopropylbenzene	< 1880	ug/Kg	6/15/2015	21:52
m,p-Xylene	< 1880	ug/Kg	6/15/2015	21:52
Methyl acetate	< 1880	ug/Kg	6/15/2015	21:52
Methyl tert-butyl Ether	< 1880	ug/Kg	6/15/2015	21:52
Methylcyclohexane	< 1880	ug/Kg	6/15/2015	21:52
Methylene chloride	< 4700	ug/Kg	6/15/2015	21:52
o-Xylene	< 1880	ug/Kg	6/15/2015	21:52
Styrene	< 4700	ug/Kg	6/15/2015	21:52
Tetrachloroethene	< 1880	ug/Kg	6/15/2015	21:52
Toluene	< 1880	ug/Kg	6/15/2015	21:52
trans-1,2-Dichloroethene	< 1880	ug/Kg	6/15/2015	21:52
trans-1,3-Dichloropropene	< 1880	ug/Kg	6/15/2015	21:52
Trichloroethene	< 1880	ug/Kg	6/15/2015	21:52
Trichlorofluoromethane	< 1880	ug/Kg	6/15/2015	21:52
Vinyl chloride	< 1880	ug/Kg	6/15/2015	21:52

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**87.8**	80.6 - 125		6/15/2015	21:52
4-Bromofluorobenzene	**95.5**	86.6 - 111		6/15/2015	21:52
Pentafluorobenzene	**99.6**	90.9 - 107		6/15/2015	21:52
Toluene-D8	**96.3**	90.8 - 109		6/15/2015	21:52

Method Reference(s): EPA 8260C
EPA 3585
Data File: x23714.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP19-L-060915
Lab Sample ID: 152324-16 **Date Sampled:** 6/9/2015
Matrix: Oil **Date Received:** 6/10/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Barium	**25.8**	mg/Kg		6/16/2015 20:52
Cadmium	**4.41**	mg/Kg		6/16/2015 20:52
Chromium	**5.22**	mg/Kg		6/16/2015 20:52
Lead	**21.0**	mg/Kg		6/16/2015 20:52

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 6/12/2015
Data File: 061615b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.797	mg/Kg		6/17/2015 15:53
PCB-1221	< 0.797	mg/Kg		6/17/2015 15:53
PCB-1232	< 0.797	mg/Kg		6/17/2015 15:53
PCB-1242	< 0.797	mg/Kg		6/17/2015 15:53
PCB-1248	< 0.797	mg/Kg		6/17/2015 15:53
PCB-1254	< 0.797	mg/Kg		6/17/2015 15:53
PCB-1260	< 0.797	mg/Kg		6/17/2015 15:53
PCB-1262	< 0.797	mg/Kg		6/17/2015 15:53
PCB-1268	< 0.797	mg/Kg		6/17/2015 15:53

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**20.1**	15.9 - 131		6/17/2015 15:53
Tetrachloro-m-xylene	**63.2**	30.3 - 87.5		6/17/2015 15:53

Method Reference(s): EPA 8082A
EPA 3580A
Preparation Date: 6/15/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 952	ug/Kg		6/15/2015 22:16
1,1,2,2-Tetrachloroethane	< 952	ug/Kg		6/15/2015 22:16

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier:	NA-AP19-L-060915		
Lab Sample ID:	152324-16	**Date Sampled:**	6/9/2015
Matrix:	Oil	**Date Received:**	6/10/2015

1,1,2-Trichloroethane	< 952	ug/Kg	6/15/2015 22:16
1,1-Dichloroethane	< 952	ug/Kg	6/15/2015 22:16
1,1-Dichloroethene	< 952	ug/Kg	6/15/2015 22:16
1,2,3-Trichlorobenzene	< 2380	ug/Kg	6/15/2015 22:16
1,2,4-Trichlorobenzene	< 2380	ug/Kg	6/15/2015 22:16
1,2-Dibromo-3-Chloropropane	< 4760	ug/Kg	6/15/2015 22:16
1,2-Dibromoethane	< 952	ug/Kg	6/15/2015 22:16
1,2-Dichlorobenzene	< 952	ug/Kg	6/15/2015 22:16
1,2-Dichloroethane	< 952	ug/Kg	6/15/2015 22:16
1,2-Dichloropropane	< 952	ug/Kg	6/15/2015 22:16
1,3-Dichlorobenzene	< 952	ug/Kg	6/15/2015 22:16
1,4-Dichlorobenzene	< 952	ug/Kg	6/15/2015 22:16
1,4-dioxane	< 9520	ug/Kg	6/15/2015 22:16
2-Butanone	< 4760	ug/Kg	6/15/2015 22:16
2-Hexanone	< 2380	ug/Kg	6/15/2015 22:16
4-Methyl-2-pentanone	< 2380	ug/Kg	6/15/2015 22:16
Acetone	< 4760	ug/Kg	6/15/2015 22:16
Benzene	< 952	ug/Kg	6/15/2015 22:16
Bromochloromethane	< 2380	ug/Kg	6/15/2015 22:16
Bromodichloromethane	< 952	ug/Kg	6/15/2015 22:16
Bromoform	< 2380	ug/Kg	6/15/2015 22:16
Bromomethane	< 952	ug/Kg	6/15/2015 22:16
Carbon disulfide	< 952	ug/Kg	6/15/2015 22:16
Carbon Tetrachloride	< 952	ug/Kg	6/15/2015 22:16
Chlorobenzene	< 952	ug/Kg	6/15/2015 22:16
Chloroethane	< 952	ug/Kg	6/15/2015 22:16
Chloroform	< 952	ug/Kg	6/15/2015 22:16
Chloromethane	< 952	ug/Kg	6/15/2015 22:16
cis-1,2-Dichloroethene	< 952	ug/Kg	6/15/2015 22:16
cis-1,3-Dichloropropene	< 952	ug/Kg	6/15/2015 22:16
Cyclohexane	< 4760	ug/Kg	6/15/2015 22:16
Dibromochloromethane	< 952	ug/Kg	6/15/2015 22:16

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152324

Client: **Fisher Associates**

Project Reference: 154034, Northland Ave (683) Bldg A

Sample Identifier: NA-AP19-L-060915
Lab Sample ID: 152324-16 **Date Sampled:** 6/9/2015
Matrix: Oil **Date Received:** 6/10/2015

Dichlorodifluoromethane	< 952	ug/Kg	6/15/2015	22:16
Ethylbenzene	< 952	ug/Kg	6/15/2015	22:16
Freon 113	< 952	ug/Kg	6/15/2015	22:16
Isopropylbenzene	< 952	ug/Kg	6/15/2015	22:16
m,p-Xylene	< 952	ug/Kg	6/15/2015	22:16
Methyl acetate	< 952	ug/Kg	6/15/2015	22:16
Methyl tert-butyl Ether	< 952	ug/Kg	6/15/2015	22:16
Methylcyclohexane	< 952	ug/Kg	6/15/2015	22:16
Methylene chloride	< 2380	ug/Kg	6/15/2015	22:16
o-Xylene	< 952	ug/Kg	6/15/2015	22:16
Styrene	< 2380	ug/Kg	6/15/2015	22:16
Tetrachloroethene	< 952	ug/Kg	6/15/2015	22:16
Toluene	< 952	ug/Kg	6/15/2015	22:16
trans-1,2-Dichloroethene	< 952	ug/Kg	6/15/2015	22:16
trans-1,3-Dichloropropene	< 952	ug/Kg	6/15/2015	22:16
Trichloroethene	< 952	ug/Kg	6/15/2015	22:16
Trichlorofluoromethane	< 952	ug/Kg	6/15/2015	22:16
Vinyl chloride	< 952	ug/Kg	6/15/2015	22:16

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**89.9**	80.6 - 125		6/15/2015	22:16
4-Bromofluorobenzene	**92.4**	86.6 - 111		6/15/2015	22:16
Pentafluorobenzene	**101**	90.9 - 107		6/15/2015	22:16
Toluene-D8	**95.7**	90.8 - 109		6/15/2015	22:16

Method Reference(s): EPA 8260C
EPA 3585
Data File: x23715.D

PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: **Fisher Associates**
Project Reference: 154034, Northland Ave (683) Bldg A
Lab Project ID: 152324
Matrix: Aq Liquid

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed	
Arsenic	<0.0100	mg/L		6/16/2015	16:39
Barium	<0.100	mg/L		6/16/2015	16:39
Cadmium	<0.00500	mg/L		6/16/2015	16:39
Chromium	**0.0124**	mg/L		6/16/2015	16:39
Lead	<0.0100	mg/L		6/16/2015	16:39
Selenium	<0.0100	mg/L		6/16/2015	16:39
Silver	<0.0100	mg/L		6/16/2015	16:39

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 6/12/2015
Data File: 061615b
QC Batch ID: QC150612water
QC Number: 1

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

1 of 3

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	Fisher Associates	CLIENT:	Same	152324
ADDRESS:	135 Calkins Road	ADDRESS:		Quotation #:
CITY:	Rochester	STATE: NY	ZIP: 14623	
PHONE:	(585) 334-1310	PHONE:		Email: jmoore@fisherassoc.com
ATTN:	James A. Moore	ATTN:		

PROJECT REFERENCE
154037
Northland Ave (683) Bldg A

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL VOA+TICs (8240)	CP, Pb, Cd, Ba	AP35	TCL SVOA+TICs	310.13	RCRA METALS	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	6/9/15	1230		X	NA-AP1-L-060915	OL	1	X	X	X					01
2		1240		X	NA-AP2-L-060915	~~OL~~ SL	1	X	X	X					02
3		1250		X	NA-ASB-Z8L-060915	OL	1	X	X	X					03
4		1300		X	NA-AS2-Z8L-060915	AQ ~~OL~~	5	X		X	X		X	* Limited Volume	04
5		1330		X	NA-TANK DTE25-060915	OL	1					X			05
6		1350		X	NA-TANK 630-060915	OL	1					X			06
7		1400		X	NA-AP3-L-060915	OL	1	X	X	X					07
8		1405		X	NA-AP3-S-060915	SD	1	X			X		X		08
9		1420		X	NA-AP4-L-060915	~~WW~~ WA	4	X		X	X		X	* " "	09
10		1440		X	NA-AP5-L-060915	~~WW~~ WA	4	X		X	X		X	* " "	10

PCBs 6@ 6/10/15

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	
Rush 2 day		Category B			
Rush 1 day					
Other please indicate:		Other please indicate:		Other EDD please indicate:	

James A Moore	6/9/15	Total Cost:
Sampled By	Date/Time	
Relinquished By	6/10/15 0937	
Received By	6/10/15 0937	P.I.F.
Received @ Lab By	6/10/15 14:51	

4°C iced 6/10/15 10:19

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PARADIGM ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY

REPORT TO:				INVOICE TO:			
CLIENT:	Fisher Associates			CLIENT:	SAME		
ADDRESS:	135 CALKINS ROAD			ADDRESS:			
CITY:	ROCHESTER	STATE: NY	ZIP: 14623	CITY:		STATE:	ZIP:
PHONE:	(585) 334-1310			PHONE:			
ATTN:	JAMES A. MOORE			ATTN:			

LAB PROJECT ID: 152324

Quotation #:

Email: jmoore@fisherassoc.com

PROJECT REFERENCE

154034

NORTHLAND AVE (683) BLDG A

Matrix Codes:

AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL VOA TICs (8260)	Cr, Pb, Cd, Ba	RCRA	TCL SVOA TICs 8270	TCL SVOA + TICs 8270 RCRA METALS	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	6/9/15	1500		X	NA - AP7-L-060915	OL	1	X	X	X				1 1
2		1515		X	NA - AP15-L-060915	SL		X	X	X				1 2
3		1530		X	NA - AP16-S-060915	SD					X	X		1 3
4		1545		X	NA - AP17-L-060915	SL		X	X	X				1 4
5		1600		X	NA - AP18-L-060915	OL		X	X	X			* Limited Volume	1 5
6		1615		X	NA - AP19-L-060915	OL		X	X	X			* " "	1 6
7							per VOA vial 65° 6/10/15							
8														
9														
10														

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	
Rush 2 day		Category B			
Rush 1 day					
Other please indicate:		Other please indicate:		Other EDD please indicate:	

Sampled By: JAMES A MOORE	6/9/15 1630hrs	Date/Time
Relinquished By:	6/10/15 0937	Date/Time
Received By:	6/10/15 0937	Date/Time
Received @ Lab By:	6/10/15 14:51	Date/Time

Total Cost:

P.I.F.

Chain of Custody Supplement

Client: Fisher Associates Completed by: Glenn Pezzulo

Lab Project ID: 152324 Date: 6/10/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X	X AQ metals unpreserved	
Comments	Transferred portion of samples 04, 09, 10 to HNO3 preserved 125ml poly bottles for Metals. Samples on hold for 24 hours.		
Transferred to method-compliant container	X AQ metals		X
Headspace (<1 mL)	X AQ VOA		X
Comments			
Preservation	X AQ metals after transfer		X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		X Metals
Comments	4°C iced		
Sufficient Sample Quantity	X		
Comments			

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Fisher Associates

For Lab Project ID

152487

Referencing

154034 Northland Ave Bldg's A & C

Prepared

Friday, June 26, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

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This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-South UST-061715
Lab Sample ID: 152487-01 **Date Sampled:** 6/17/2015
Matrix: Oil **Date Received:** 6/18/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Barium	< 4.42	mg/Kg		6/23/2015 18:33
Cadmium	< 0.221	mg/Kg		6/23/2015 18:33
Chromium	< 0.442	mg/Kg		6/23/2015 18:33
Lead	< 0.442	mg/Kg		6/23/2015 18:33

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 6/23/2015
Data File: 062315b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.990	mg/Kg		6/24/2015 08:17
PCB-1221	< 0.990	mg/Kg		6/24/2015 08:17
PCB-1232	< 0.990	mg/Kg		6/24/2015 08:17
PCB-1242	< 0.990	mg/Kg		6/24/2015 08:17
PCB-1248	< 0.990	mg/Kg		6/24/2015 08:17
PCB-1254	< 0.990	mg/Kg		6/24/2015 08:17
PCB-1260	< 0.990	mg/Kg		6/24/2015 08:17
PCB-1262	< 0.990	mg/Kg		6/24/2015 08:17
PCB-1268	< 0.990	mg/Kg		6/24/2015 08:17

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**45.9**	15.9 - 131		6/24/2015 08:17
Tetrachloro-m-xylene	**65.0**	30.3 - 87.5		6/24/2015 08:17

Method Reference(s): EPA 8082A
EPA 3580A
Preparation Date: 6/23/2015

Petroleum Hydrocarbons by GC

Analyte	Result	Units	Qualifier	Date Analyzed
Medium weight PHC as Diesel	Pure Product	mg/Kg		6/23/2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-South UST-061715		
Lab Sample ID:	152487-01	**Date Sampled:**	6/17/2015
Matrix:	Oil	**Date Received:**	6/18/2015

Method Reference(s): NYSDOH 310.13
Preparation Date: 6/23/2015
ELAP does not offer this test for approval as part of their laboratory certification program.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-Middle UST-061715
Lab Sample ID: 152487-02 **Date Sampled:** 6/17/2015
Matrix: Oil **Date Received:** 6/18/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Barium	< 4.72	mg/Kg		6/23/2015 18:37
Cadmium	< 0.236	mg/Kg		6/23/2015 18:37
Chromium	< 0.472	mg/Kg		6/23/2015 18:37
Lead	< 0.472	mg/Kg		6/23/2015 18:37

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 6/23/2015
Data File: 062315b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.962	mg/Kg		6/24/2015 12:18
PCB-1221	< 0.962	mg/Kg		6/24/2015 12:18
PCB-1232	< 0.962	mg/Kg		6/24/2015 12:18
PCB-1242	< 0.962	mg/Kg		6/24/2015 12:18
PCB-1248	< 0.962	mg/Kg		6/24/2015 12:18
PCB-1254	< 0.962	mg/Kg		6/24/2015 12:18
PCB-1260	< 0.962	mg/Kg		6/24/2015 12:18
PCB-1262	< 0.962	mg/Kg		6/24/2015 12:18
PCB-1268	< 0.962	mg/Kg		6/24/2015 12:18

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**28.2**	15.9 - 131		6/24/2015 12:18
Tetrachloro-m-xylene	**73.8**	30.3 - 87.5		6/24/2015 12:18

Method Reference(s): EPA 8082A
EPA 3580A
Preparation Date: 6/23/2015

Petroleum Hydrocarbons by GC

Analyte	Result	Units	Qualifier	Date Analyzed
Heavy weight PHC as Lube Oil	**24.3**	% Composition		6/23/2015
Medium weight PHC as Diesel	**75.7**	% Composition		6/23/2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-Middle UST-061715		
Lab Sample ID:	152487-02	**Date Sampled:**	6/17/2015
Matrix:	Oil	**Date Received:**	6/18/2015

Method Reference(s): NYSDOH 310.13
Preparation Date: 6/23/2015
ELAP does not offer this test for approval as part of their laboratory certification program.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-North UST-061715
Lab Sample ID: 152487-03 **Date Sampled:** 6/17/2015
Matrix: Oil **Date Received:** 6/18/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Barium	< 4.90	mg/Kg		6/23/2015 18:41
Cadmium	< 0.245	mg/Kg		6/23/2015 18:41
Chromium	< 0.490	mg/Kg		6/23/2015 18:41
Lead	< 0.490	mg/Kg		6/23/2015 18:41

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 6/23/2015
Data File: 062315b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.952	mg/Kg		6/24/2015 12:42
PCB-1221	< 0.952	mg/Kg		6/24/2015 12:42
PCB-1232	< 0.952	mg/Kg		6/24/2015 12:42
PCB-1242	< 0.952	mg/Kg		6/24/2015 12:42
PCB-1248	< 0.952	mg/Kg		6/24/2015 12:42
PCB-1254	< 0.952	mg/Kg		6/24/2015 12:42
PCB-1260	< 0.952	mg/Kg		6/24/2015 12:42
PCB-1262	< 0.952	mg/Kg		6/24/2015 12:42
PCB-1268	< 0.952	mg/Kg		6/24/2015 12:42

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**25.8**	15.9 - 131		6/24/2015 12:42
Tetrachloro-m-xylene	**62.0**	30.3 - 87.5		6/24/2015 12:42

Method Reference(s): EPA 8082A
EPA 3580A
Preparation Date: 6/23/2015

Petroleum Hydrocarbons by GC

Analyte	Result	Units	Qualifier	Date Analyzed
Medium weight PHC as Diesel	Pure Product	mg/Kg		6/23/2015

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-North UST-061715		
Lab Sample ID:	152487-03	**Date Sampled:**	6/17/2015
Matrix:	Oil	**Date Received:**	6/18/2015

Method Reference(s): NYSDOH 310.13
Preparation Date: 6/23/2015
ELAP does not offer this test for approval as part of their laboratory certification program.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AP6-061715
Lab Sample ID: 152487-04 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		6/23/2015 10:59

Method Reference(s): EPA 245.1
Preparation Date: 6/22/2015
Data File: Hg150623A

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**0.00603**	mg/L		6/24/2015 11:15
Barium	< 0.0500	mg/L		6/24/2015 11:15
Cadmium	< 0.00250	mg/L		6/24/2015 11:15
Chromium	**0.0220**	mg/L		6/24/2015 11:15
Lead	< 0.00500	mg/L		6/24/2015 11:15
Selenium	**0.00670**	mg/L		6/24/2015 17:51
Silver	< 0.00500	mg/L		6/24/2015 11:15

Method Reference(s): EPA 200.7
Preparation Date: 6/23/2015
Data File: 062415a

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 1.00	ug/L		6/23/2015 04:39
PCB-1221	< 1.00	ug/L		6/23/2015 04:39
PCB-1232	< 1.00	ug/L		6/23/2015 04:39
PCB-1242	< 1.00	ug/L		6/23/2015 04:39
PCB-1248	< 1.00	ug/L		6/23/2015 04:39
PCB-1254	< 1.00	ug/L		6/23/2015 04:39
PCB-1260	< 1.00	ug/L		6/23/2015 04:39
PCB-1262	< 1.00	ug/L		6/23/2015 04:39
PCB-1268	< 1.00	ug/L		6/23/2015 04:39

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AP6-061715
Lab Sample ID: 152487-04 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**70.4**	28.7 - 139		6/23/2015 04:39
Tetrachloro-m-xylene	**67.5**	0 - 110		6/23/2015 04:39

Method Reference(s): EPA 8082A
EPA 3510C
Preparation Date: 6/22/2015

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		6/19/2015 15:19
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		6/19/2015 15:19
1,2,4-Trichlorobenzene	< 10.0	ug/L		6/19/2015 15:19
1,2-Dichlorobenzene	< 10.0	ug/L		6/19/2015 15:19
1,3-Dichlorobenzene	< 10.0	ug/L		6/19/2015 15:19
1,4-Dichlorobenzene	< 10.0	ug/L		6/19/2015 15:19
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		6/19/2015 15:19
2,4,5-Trichlorophenol	< 20.0	ug/L		6/19/2015 15:19
2,4,6-Trichlorophenol	< 10.0	ug/L		6/19/2015 15:19
2,4-Dichlorophenol	< 10.0	ug/L		6/19/2015 15:19
2,4-Dimethylphenol	< 10.0	ug/L		6/19/2015 15:19
2,4-Dinitrophenol	< 20.0	ug/L		6/19/2015 15:19
2,4-Dinitrotoluene	< 10.0	ug/L		6/19/2015 15:19
2,6-Dinitrotoluene	< 10.0	ug/L		6/19/2015 15:19
2-Chloronaphthalene	< 10.0	ug/L		6/19/2015 15:19
2-Chlorophenol	< 10.0	ug/L		6/19/2015 15:19
2-Methylnapthalene	< 10.0	ug/L		6/19/2015 15:19
2-Methylphenol	< 10.0	ug/L		6/19/2015 15:19
2-Nitroaniline	< 20.0	ug/L		6/19/2015 15:19
2-Nitrophenol	< 10.0	ug/L		6/19/2015 15:19
3&4-Methylphenol	< 10.0	ug/L		6/19/2015 15:19
3,3'-Dichlorobenzidine	< 10.0	ug/L		6/19/2015 15:19
3-Nitroaniline	< 20.0	ug/L		6/19/2015 15:19
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		6/19/2015 15:19

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-AP6-061715		
Lab Sample ID:	152487-04	**Date Sampled:**	6/17/2015
Matrix:	Wastewater	**Date Received:**	6/18/2015

4-Bromophenyl phenyl ether	< 10.0	ug/L	6/19/2015	15:19
4-Chloro-3-methylphenol	< 10.0	ug/L	6/19/2015	15:19
4-Chloroaniline	< 10.0	ug/L	6/19/2015	15:19
4-Chlorophenyl phenyl ether	< 10.0	ug/L	6/19/2015	15:19
4-Nitroaniline	< 20.0	ug/L	6/19/2015	15:19
4-Nitrophenol	< 20.0	ug/L	6/19/2015	15:19
Acenaphthene	< 10.0	ug/L	6/19/2015	15:19
Acenaphthylene	< 10.0	ug/L	6/19/2015	15:19
Acetophenone	< 10.0	ug/L	6/19/2015	15:19
Anthracene	< 10.0	ug/L	6/19/2015	15:19
Atrazine	< 10.0	ug/L	6/19/2015	15:19
Benzaldehyde	< 10.0	ug/L	6/19/2015	15:19
Benzo (a) anthracene	**17.3**	ug/L	6/19/2015	15:19
Benzo (a) pyrene	< 10.0	ug/L	6/19/2015	15:19
Benzo (b) fluoranthene	**11.6**	ug/L	6/19/2015	15:19
Benzo (g,h,i) perylene	< 10.0	ug/L	6/19/2015	15:19
Benzo (k) fluoranthene	< 10.0	ug/L	6/19/2015	15:19
Bis (2-chloroethoxy) methane	< 10.0	ug/L	6/19/2015	15:19
Bis (2-chloroethyl) ether	< 10.0	ug/L	6/19/2015	15:19
Bis (2-chloroisopropyl) ether	< 10.0	ug/L	6/19/2015	15:19
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	6/19/2015	15:19
Butylbenzylphthalate	< 10.0	ug/L	6/19/2015	15:19
Caprolactam	< 10.0	ug/L	6/19/2015	15:19
Carbazole	< 10.0	ug/L	6/19/2015	15:19
Chrysene	**13.4**	ug/L	6/19/2015	15:19
Dibenz (a,h) anthracene	< 10.0	ug/L	6/19/2015	15:19
Dibenzofuran	< 10.0	ug/L	6/19/2015	15:19
Diethyl phthalate	< 10.0	ug/L	6/19/2015	15:19
Dimethyl phthalate	< 20.0	ug/L	6/19/2015	15:19
Di-n-butyl phthalate	< 10.0	ug/L	6/19/2015	15:19
Di-n-octylphthalate	< 10.0	ug/L	6/19/2015	15:19
Fluoranthene	**61.0**	ug/L	6/19/2015	15:19

Sample Identifier: NA-AP6-061715
Lab Sample ID: 152487-04 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Fluorene	< 10.0	ug/L		6/19/2015 15:19
Hexachlorobenzene	< 10.0	ug/L		6/19/2015 15:19
Hexachlorobutadiene	< 10.0	ug/L		6/19/2015 15:19
Hexachlorocyclopentadiene	< 10.0	ug/L		6/19/2015 15:19
Hexachloroethane	< 10.0	ug/L		6/19/2015 15:19
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L		6/19/2015 15:19
Isophorone	< 10.0	ug/L		6/19/2015 15:19
Naphthalene	< 10.0	ug/L		6/19/2015 15:19
Nitrobenzene	< 10.0	ug/L		6/19/2015 15:19
N-Nitroso-di-n-propylamine	< 10.0	ug/L		6/19/2015 15:19
N-Nitrosodiphenylamine	< 10.0	ug/L		6/19/2015 15:19
Pentachlorophenol	< 20.0	ug/L		6/19/2015 15:19
Phenanthrene	< 10.0	ug/L		6/19/2015 15:19
Phenol	< 10.0	ug/L		6/19/2015 15:19
Pyrene	**54.5**	ug/L		6/19/2015 15:19

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**102**	27.2 - 132		6/19/2015 15:19
2-Fluorobiphenyl	**88.2**	20.2 - 94.7		6/19/2015 15:19
2-Fluorophenol	**61.5**	5.5 - 92.9		6/19/2015 15:19
Nitrobenzene-d5	**83.4**	44.4 - 95.7		6/19/2015 15:19
Phenol-d5	**49.0**	0 - 90.8		6/19/2015 15:19
Terphenyl-d14	**86.6**	55.1 - 112		6/19/2015 15:19

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 6/19/2015
Data File: B05952.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		6/23/2015 15:43
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		6/23/2015 15:43
1,1,2-Trichloroethane	< 2.00	ug/L		6/23/2015 15:43
1,1-Dichloroethane	< 2.00	ug/L		6/23/2015 15:43

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-AP6-061715		
Lab Sample ID:	152487-04	**Date Sampled:**	6/17/2015
Matrix:	Wastewater	**Date Received:**	6/18/2015

1,1-Dichloroethene	< 2.00	ug/L	6/23/2015 15:43
1,2,3-Trichlorobenzene	< 5.00	ug/L	6/23/2015 15:43
1,2,4-Trichlorobenzene	< 5.00	ug/L	6/23/2015 15:43
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	6/23/2015 15:43
1,2-Dibromoethane	< 2.00	ug/L	6/23/2015 15:43
1,2-Dichlorobenzene	< 2.00	ug/L	6/23/2015 15:43
1,2-Dichloroethane	< 2.00	ug/L	6/23/2015 15:43
1,2-Dichloropropane	< 2.00	ug/L	6/23/2015 15:43
1,3-Dichlorobenzene	< 2.00	ug/L	6/23/2015 15:43
1,4-Dichlorobenzene	< 2.00	ug/L	6/23/2015 15:43
1,4-dioxane	< 20.0	ug/L	6/23/2015 15:43
2-Butanone	< 10.0	ug/L	6/23/2015 15:43
2-Hexanone	< 5.00	ug/L	6/23/2015 15:43
4-Methyl-2-pentanone	< 5.00	ug/L	6/23/2015 15:43
Acetone	< 10.0	ug/L	6/23/2015 15:43
Benzene	< 1.00	ug/L	6/23/2015 15:43
Bromochloromethane	< 5.00	ug/L	6/23/2015 15:43
Bromodichloromethane	< 2.00	ug/L	6/23/2015 15:43
Bromoform	< 5.00	ug/L	6/23/2015 15:43
Bromomethane	< 2.00	ug/L	6/23/2015 15:43
Carbon disulfide	< 2.00	ug/L	6/23/2015 15:43
Carbon Tetrachloride	< 2.00	ug/L	6/23/2015 15:43
Chlorobenzene	< 2.00	ug/L	6/23/2015 15:43
Chloroethane	< 2.00	ug/L	6/23/2015 15:43
Chloroform	< 2.00	ug/L	6/23/2015 15:43
Chloromethane	< 2.00	ug/L	6/23/2015 15:43
cis-1,2-Dichloroethene	< 2.00	ug/L	6/23/2015 15:43
cis-1,3-Dichloropropene	< 2.00	ug/L	6/23/2015 15:43
Cyclohexane	< 10.0	ug/L	6/23/2015 15:43
Dibromochloromethane	< 2.00	ug/L	6/23/2015 15:43
Dichlorodifluoromethane	< 2.00	ug/L	6/23/2015 15:43
Ethylbenzene	< 2.00	ug/L	6/23/2015 15:43

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AP6-061715
Lab Sample ID: 152487-04 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Freon 113	< 2.00	ug/L	6/23/2015	15:43
Isopropylbenzene	< 2.00	ug/L	6/23/2015	15:43
m,p-Xylene	< 2.00	ug/L	6/23/2015	15:43
Methyl acetate	< 2.00	ug/L	6/23/2015	15:43
Methyl tert-butyl Ether	< 2.00	ug/L	6/23/2015	15:43
Methylcyclohexane	< 2.00	ug/L	6/23/2015	15:43
Methylene chloride	< 5.00	ug/L	6/23/2015	15:43
o-Xylene	< 2.00	ug/L	6/23/2015	15:43
Styrene	< 5.00	ug/L	6/23/2015	15:43
Tetrachloroethene	< 2.00	ug/L	6/23/2015	15:43
Toluene	< 2.00	ug/L	6/23/2015	15:43
trans-1,2-Dichloroethene	< 2.00	ug/L	6/23/2015	15:43
trans-1,3-Dichloropropene	< 2.00	ug/L	6/23/2015	15:43
Trichloroethene	< 2.00	ug/L	6/23/2015	15:43
Trichlorofluoromethane	< 2.00	ug/L	6/23/2015	15:43
Vinyl chloride	< 2.00	ug/L	6/23/2015	15:43

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**104**	82.3 - 115		6/23/2015	15:43
4-Bromofluorobenzene	**83.7**	85.5 - 111	*	6/23/2015	15:43
Pentafluorobenzene	**100**	91.2 - 107		6/23/2015	15:43
Toluene-D8	**91.3**	90.9 - 108		6/23/2015	15:43

Method Reference(s): EPA 8260C
EPA 5030
Data File: x23974.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AP8-061715
Lab Sample ID: 152487-05 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		6/24/2015 11:27

Method Reference(s): EPA 245.1
Preparation Date: 6/23/2015
Data File: Hg150624A

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.00500	mg/L		6/24/2015 11:20
Barium	< 0.0500	mg/L		6/24/2015 11:20
Cadmium	< 0.00250	mg/L		6/24/2015 11:20
Chromium	**0.0229**	mg/L		6/24/2015 11:20
Lead	**0.0435**	mg/L		6/24/2015 11:20
Selenium	< 0.00500	mg/L		6/24/2015 17:55
Silver	< 0.00500	mg/L		6/24/2015 11:20

Method Reference(s): EPA 200.7
Preparation Date: 6/23/2015
Data File: 062415a

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 1.00	ug/L		6/23/2015 05:03
PCB-1221	< 1.00	ug/L		6/23/2015 05:03
PCB-1232	< 1.00	ug/L		6/23/2015 05:03
PCB-1242	< 1.00	ug/L		6/23/2015 05:03
PCB-1248	< 1.00	ug/L		6/23/2015 05:03
PCB-1254	< 1.00	ug/L		6/23/2015 05:03
PCB-1260	< 1.00	ug/L		6/23/2015 05:03
PCB-1262	< 1.00	ug/L		6/23/2015 05:03
PCB-1268	< 1.00	ug/L		6/23/2015 05:03

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AP8-061715
Lab Sample ID: 152487-05 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**61.5**	28.7 - 139		6/23/2015 05:03
Tetrachloro-m-xylene	**52.0**	0 - 110		6/23/2015 05:03

Method Reference(s): EPA 8082A
EPA 3510C
Preparation Date: 6/22/2015

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		6/19/2015 15:48
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		6/19/2015 15:48
1,2,4-Trichlorobenzene	< 10.0	ug/L		6/19/2015 15:48
1,2-Dichlorobenzene	< 10.0	ug/L		6/19/2015 15:48
1,3-Dichlorobenzene	< 10.0	ug/L		6/19/2015 15:48
1,4-Dichlorobenzene	< 10.0	ug/L		6/19/2015 15:48
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		6/19/2015 15:48
2,4,5-Trichlorophenol	< 20.0	ug/L		6/19/2015 15:48
2,4,6-Trichlorophenol	< 10.0	ug/L		6/19/2015 15:48
2,4-Dichlorophenol	< 10.0	ug/L		6/19/2015 15:48
2,4-Dimethylphenol	< 10.0	ug/L		6/19/2015 15:48
2,4-Dinitrophenol	< 20.0	ug/L		6/19/2015 15:48
2,4-Dinitrotoluene	< 10.0	ug/L		6/19/2015 15:48
2,6-Dinitrotoluene	< 10.0	ug/L		6/19/2015 15:48
2-Chloronaphthalene	< 10.0	ug/L		6/19/2015 15:48
2-Chlorophenol	< 10.0	ug/L		6/19/2015 15:48
2-Methylnapthalene	< 10.0	ug/L		6/19/2015 15:48
2-Methylphenol	< 10.0	ug/L		6/19/2015 15:48
2-Nitroaniline	< 20.0	ug/L		6/19/2015 15:48
2-Nitrophenol	< 10.0	ug/L		6/19/2015 15:48
3&4-Methylphenol	< 10.0	ug/L		6/19/2015 15:48
3,3'-Dichlorobenzidine	< 10.0	ug/L		6/19/2015 15:48
3-Nitroaniline	< 20.0	ug/L		6/19/2015 15:48
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		6/19/2015 15:48

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-AP8-061715		
Lab Sample ID:	152487-05	**Date Sampled:**	6/17/2015
Matrix:	Wastewater	**Date Received:**	6/18/2015

4-Bromophenyl phenyl ether	< 10.0	ug/L	6/19/2015	15:48
4-Chloro-3-methylphenol	< 10.0	ug/L	6/19/2015	15:48
4-Chloroaniline	< 10.0	ug/L	6/19/2015	15:48
4-Chlorophenyl phenyl ether	< 10.0	ug/L	6/19/2015	15:48
4-Nitroaniline	< 20.0	ug/L	6/19/2015	15:48
4-Nitrophenol	< 20.0	ug/L	6/19/2015	15:48
Acenaphthene	< 10.0	ug/L	6/19/2015	15:48
Acenaphthylene	< 10.0	ug/L	6/19/2015	15:48
Acetophenone	< 10.0	ug/L	6/19/2015	15:48
Anthracene	**12.4**	ug/L	6/19/2015	15:48
Atrazine	< 10.0	ug/L	6/19/2015	15:48
Benzaldehyde	< 10.0	ug/L	6/19/2015	15:48
Benzo (a) anthracene	< 10.0	ug/L	6/19/2015	15:48
Benzo (a) pyrene	< 10.0	ug/L	6/19/2015	15:48
Benzo (b) fluoranthene	< 10.0	ug/L	6/19/2015	15:48
Benzo (g,h,i) perylene	< 10.0	ug/L	6/19/2015	15:48
Benzo (k) fluoranthene	< 10.0	ug/L	6/19/2015	15:48
Bis (2-chloroethoxy) methane	< 10.0	ug/L	6/19/2015	15:48
Bis (2-chloroethyl) ether	< 10.0	ug/L	6/19/2015	15:48
Bis (2-chloroisopropyl) ether	< 10.0	ug/L	6/19/2015	15:48
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	6/19/2015	15:48
Butylbenzylphthalate	< 10.0	ug/L	6/19/2015	15:48
Caprolactam	< 10.0	ug/L	6/19/2015	15:48
Carbazole	< 10.0	ug/L	6/19/2015	15:48
Chrysene	< 10.0	ug/L	6/19/2015	15:48
Dibenz (a,h) anthracene	< 10.0	ug/L	6/19/2015	15:48
Dibenzofuran	< 10.0	ug/L	6/19/2015	15:48
Diethyl phthalate	< 10.0	ug/L	6/19/2015	15:48
Dimethyl phthalate	< 20.0	ug/L	6/19/2015	15:48
Di-n-butyl phthalate	< 10.0	ug/L	6/19/2015	15:48
Di-n-octylphthalate	< 10.0	ug/L	6/19/2015	15:48
Fluoranthene	< 10.0	ug/L	6/19/2015	15:48

Sample Identifier: NA-AP8-061715
Lab Sample ID: 152487-05 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Fluorene	< 10.0	ug/L	6/19/2015	15:48
Hexachlorobenzene	< 10.0	ug/L	6/19/2015	15:48
Hexachlorobutadiene	< 10.0	ug/L	6/19/2015	15:48
Hexachlorocyclopentadiene	< 10.0	ug/L	6/19/2015	15:48
Hexachloroethane	< 10.0	ug/L	6/19/2015	15:48
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	6/19/2015	15:48
Isophorone	< 10.0	ug/L	6/19/2015	15:48
Naphthalene	< 10.0	ug/L	6/19/2015	15:48
Nitrobenzene	< 10.0	ug/L	6/19/2015	15:48
N-Nitroso-di-n-propylamine	< 10.0	ug/L	6/19/2015	15:48
N-Nitrosodiphenylamine	< 10.0	ug/L	6/19/2015	15:48
Pentachlorophenol	< 20.0	ug/L	6/19/2015	15:48
Phenanthrene	< 10.0	ug/L	6/19/2015	15:48
Phenol	< 10.0	ug/L	6/19/2015	15:48
Pyrene	**12.1**	ug/L	6/19/2015	15:48

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**8.77**	27.2 - 132	*	6/19/2015 15:48
2-Fluorobiphenyl	**68.1**	20.2 - 94.7		6/19/2015 15:48
2-Fluorophenol	**3.31**	5.5 - 92.9	*	6/19/2015 15:48
Nitrobenzene-d5	**66.0**	44.4 - 95.7		6/19/2015 15:48
Phenol-d5	**2.56**	0 - 90.8		6/19/2015 15:48
Terphenyl-d14	**72.4**	55.1 - 112		6/19/2015 15:48

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 6/19/2015
Data File: B05953.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		6/23/2015 16:07
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		6/23/2015 16:07
1,1,2-Trichloroethane	< 2.00	ug/L		6/23/2015 16:07
1,1-Dichloroethane	< 2.00	ug/L		6/23/2015 16:07

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-AP8-061715		
Lab Sample ID:	152487-05	**Date Sampled:**	6/17/2015
Matrix:	Wastewater	**Date Received:**	6/18/2015

1,1-Dichloroethene	< 2.00	ug/L	6/23/2015	16:07
1,2,3-Trichlorobenzene	< 5.00	ug/L	6/23/2015	16:07
1,2,4-Trichlorobenzene	< 5.00	ug/L	6/23/2015	16:07
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	6/23/2015	16:07
1,2-Dibromoethane	< 2.00	ug/L	6/23/2015	16:07
1,2-Dichlorobenzene	< 2.00	ug/L	6/23/2015	16:07
1,2-Dichloroethane	< 2.00	ug/L	6/23/2015	16:07
1,2-Dichloropropane	< 2.00	ug/L	6/23/2015	16:07
1,3-Dichlorobenzene	< 2.00	ug/L	6/23/2015	16:07
1,4-Dichlorobenzene	< 2.00	ug/L	6/23/2015	16:07
1,4-dioxane	< 20.0	ug/L	6/23/2015	16:07
2-Butanone	< 10.0	ug/L	6/23/2015	16:07
2-Hexanone	< 5.00	ug/L	6/23/2015	16:07
4-Methyl-2-pentanone	< 5.00	ug/L	6/23/2015	16:07
Acetone	**65.0**	ug/L	6/23/2015	16:07
Benzene	< 1.00	ug/L	6/23/2015	16:07
Bromochloromethane	< 5.00	ug/L	6/23/2015	16:07
Bromodichloromethane	< 2.00	ug/L	6/23/2015	16:07
Bromoform	< 5.00	ug/L	6/23/2015	16:07
Bromomethane	< 2.00	ug/L	6/23/2015	16:07
Carbon disulfide	< 2.00	ug/L	6/23/2015	16:07
Carbon Tetrachloride	< 2.00	ug/L	6/23/2015	16:07
Chlorobenzene	< 2.00	ug/L	6/23/2015	16:07
Chloroethane	< 2.00	ug/L	6/23/2015	16:07
Chloroform	< 2.00	ug/L	6/23/2015	16:07
Chloromethane	< 2.00	ug/L	6/23/2015	16:07
cis-1,2-Dichloroethene	< 2.00	ug/L	6/23/2015	16:07
cis-1,3-Dichloropropene	< 2.00	ug/L	6/23/2015	16:07
Cyclohexane	< 10.0	ug/L	6/23/2015	16:07
Dibromochloromethane	< 2.00	ug/L	6/23/2015	16:07
Dichlorodifluoromethane	< 2.00	ug/L	6/23/2015	16:07
Ethylbenzene	< 2.00	ug/L	6/23/2015	16:07

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AP8-061715
Lab Sample ID: 152487-05 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Freon 113	< 2.00	ug/L		6/23/2015	16:07
Isopropylbenzene	< 2.00	ug/L		6/23/2015	16:07
m,p-Xylene	< 2.00	ug/L		6/23/2015	16:07
Methyl acetate	< 2.00	ug/L		6/23/2015	16:07
Methyl tert-butyl Ether	< 2.00	ug/L		6/23/2015	16:07
Methylcyclohexane	< 2.00	ug/L		6/23/2015	16:07
Methylene chloride	< 5.00	ug/L		6/23/2015	16:07
o-Xylene	< 2.00	ug/L		6/23/2015	16:07
Styrene	< 5.00	ug/L		6/23/2015	16:07
Tetrachloroethene	< 2.00	ug/L		6/23/2015	16:07
Toluene	< 2.00	ug/L		6/23/2015	16:07
trans-1,2-Dichloroethene	< 2.00	ug/L		6/23/2015	16:07
trans-1,3-Dichloropropene	< 2.00	ug/L		6/23/2015	16:07
Trichloroethene	< 2.00	ug/L		6/23/2015	16:07
Trichlorofluoromethane	< 2.00	ug/L		6/23/2015	16:07
Vinyl chloride	< 2.00	ug/L		6/23/2015	16:07

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**106**	82.3 - 115		6/23/2015	16:07
4-Bromofluorobenzene	**84.5**	85.5 - 111	*	6/23/2015	16:07
Pentafluorobenzene	**99.0**	91.2 - 107		6/23/2015	16:07
Toluene-D8	**91.1**	90.9 - 108		6/23/2015	16:07

Method Reference(s): EPA 8260C
EPA 5030
Data File: x23975.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AP9-061715
Lab Sample ID: 152487-06 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		6/23/2015 11:06

Method Reference(s): EPA 245.1
Preparation Date: 6/22/2015
Data File: Hg150623A

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.00500	mg/L		6/24/2015 11:24
Barium	**0.112**	mg/L		6/24/2015 11:24
Cadmium	< 0.00250	mg/L		6/24/2015 11:24
Chromium	< 0.00500	mg/L		6/24/2015 11:24
Lead	**0.00612**	mg/L		6/24/2015 11:24
Selenium	< 0.00500	mg/L		6/24/2015 11:24
Silver	< 0.00500	mg/L		6/24/2015 11:24

Method Reference(s): EPA 200.7
Preparation Date: 6/23/2015
Data File: 062415a

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 1.00	ug/L		6/23/2015 05:27
PCB-1221	< 1.00	ug/L		6/23/2015 05:27
PCB-1232	< 1.00	ug/L		6/23/2015 05:27
PCB-1242	< 1.00	ug/L		6/23/2015 05:27
PCB-1248	< 1.00	ug/L		6/23/2015 05:27
PCB-1254	**2.25**	ug/L		6/23/2015 05:27
PCB-1260	< 1.00	ug/L		6/23/2015 05:27
PCB-1262	< 1.00	ug/L		6/23/2015 05:27
PCB-1268	< 1.00	ug/L		6/23/2015 05:27

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Friday, June 26, 2015

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AP9-061715
Lab Sample ID: 152487-06 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**72.5**	28.7 - 139		6/23/2015 05:27
Tetrachloro-m-xylene	**56.6**	0 - 110		6/23/2015 05:27

Method Reference(s): EPA 8082A
EPA 3510C
Preparation Date: 6/22/2015

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		6/26/2015 00:24
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		6/26/2015 00:24
1,2,4-Trichlorobenzene	< 10.0	ug/L		6/26/2015 00:24
1,2-Dichlorobenzene	< 10.0	ug/L		6/26/2015 00:24
1,3-Dichlorobenzene	< 10.0	ug/L		6/26/2015 00:24
1,4-Dichlorobenzene	< 10.0	ug/L		6/26/2015 00:24
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		6/26/2015 00:24
2,4,5-Trichlorophenol	< 20.0	ug/L		6/26/2015 00:24
2,4,6-Trichlorophenol	< 10.0	ug/L		6/26/2015 00:24
2,4-Dichlorophenol	< 10.0	ug/L		6/26/2015 00:24
2,4-Dimethylphenol	< 10.0	ug/L		6/26/2015 00:24
2,4-Dinitrophenol	< 20.0	ug/L		6/26/2015 00:24
2,4-Dinitrotoluene	< 10.0	ug/L		6/26/2015 00:24
2,6-Dinitrotoluene	< 10.0	ug/L		6/26/2015 00:24
2-Chloronaphthalene	< 10.0	ug/L		6/26/2015 00:24
2-Chlorophenol	< 10.0	ug/L		6/26/2015 00:24
2-Methylnapthalene	< 10.0	ug/L		6/26/2015 00:24
2-Methylphenol	< 10.0	ug/L		6/26/2015 00:24
2-Nitroaniline	< 20.0	ug/L		6/26/2015 00:24
2-Nitrophenol	< 10.0	ug/L		6/26/2015 00:24
3&4-Methylphenol	< 10.0	ug/L		6/26/2015 00:24
3,3'-Dichlorobenzidine	< 10.0	ug/L		6/26/2015 00:24
3-Nitroaniline	< 20.0	ug/L		6/26/2015 00:24
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		6/26/2015 00:24

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AP9-061715
Lab Sample ID: 152487-06 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

4-Bromophenyl phenyl ether	< 10.0	ug/L	6/26/2015	00:24
4-Chloro-3-methylphenol	< 10.0	ug/L	6/26/2015	00:24
4-Chloroaniline	< 10.0	ug/L	6/26/2015	00:24
4-Chlorophenyl phenyl ether	< 10.0	ug/L	6/26/2015	00:24
4-Nitroaniline	< 20.0	ug/L	6/26/2015	00:24
4-Nitrophenol	< 20.0	ug/L	6/26/2015	00:24
Acenaphthene	< 10.0	ug/L	6/26/2015	00:24
Acenaphthylene	< 10.0	ug/L	6/26/2015	00:24
Acetophenone	< 10.0	ug/L	6/26/2015	00:24
Anthracene	< 10.0	ug/L	6/26/2015	00:24
Atrazine	< 10.0	ug/L	6/26/2015	00:24
Benzaldehyde	< 10.0	ug/L	6/26/2015	00:24
Benzo (a) anthracene	< 10.0	ug/L	6/26/2015	00:24
Benzo (a) pyrene	< 10.0	ug/L	6/26/2015	00:24
Benzo (b) fluoranthene	< 10.0	ug/L	6/26/2015	00:24
Benzo (g,h,i) perylene	< 10.0	ug/L	6/26/2015	00:24
Benzo (k) fluoranthene	< 10.0	ug/L	6/26/2015	00:24
Bis (2-chloroethoxy) methane	< 10.0	ug/L	6/26/2015	00:24
Bis (2-chloroethyl) ether	< 10.0	ug/L	6/26/2015	00:24
Bis (2-chloroisopropyl) ether	< 10.0	ug/L	6/26/2015	00:24
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	6/26/2015	00:24
Butylbenzylphthalate	< 10.0	ug/L	6/26/2015	00:24
Caprolactam	< 10.0	ug/L	6/26/2015	00:24
Carbazole	< 10.0	ug/L	6/26/2015	00:24
Chrysene	< 10.0	ug/L	6/26/2015	00:24
Dibenz (a,h) anthracene	< 10.0	ug/L	6/26/2015	00:24
Dibenzofuran	< 10.0	ug/L	6/26/2015	00:24
Diethyl phthalate	< 10.0	ug/L	6/26/2015	00:24
Dimethyl phthalate	< 20.0	ug/L	6/26/2015	00:24
Di-n-butyl phthalate	< 10.0	ug/L	6/26/2015	00:24
Di-n-octylphthalate	< 10.0	ug/L	6/26/2015	00:24
Fluoranthene	< 10.0	ug/L	6/26/2015	00:24

Sample Identifier: NA-AP9-061715
Lab Sample ID: 152487-06 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Fluorene	< 10.0	ug/L	6/26/2015	00:24
Hexachlorobenzene	< 10.0	ug/L	6/26/2015	00:24
Hexachlorobutadiene	< 10.0	ug/L	6/26/2015	00:24
Hexachlorocyclopentadiene	< 10.0	ug/L	6/26/2015	00:24
Hexachloroethane	< 10.0	ug/L	6/26/2015	00:24
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	6/26/2015	00:24
Isophorone	< 10.0	ug/L	6/26/2015	00:24
Naphthalene	< 10.0	ug/L	6/26/2015	00:24
Nitrobenzene	< 10.0	ug/L	6/26/2015	00:24
N-Nitroso-di-n-propylamine	< 10.0	ug/L	6/26/2015	00:24
N-Nitrosodiphenylamine	< 10.0	ug/L	6/26/2015	00:24
Pentachlorophenol	< 20.0	ug/L	6/26/2015	00:24
Phenanthrene	< 10.0	ug/L	6/26/2015	00:24
Phenol	< 10.0	ug/L	6/26/2015	00:24
Pyrene	< 10.0	ug/L	6/26/2015	00:24

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**80.4**	27.2 - 132		6/26/2015	00:24
2-Fluorobiphenyl	**69.3**	20.2 - 94.7		6/26/2015	00:24
2-Fluorophenol	**45.0**	5.5 - 92.9		6/26/2015	00:24
Nitrobenzene-d5	**67.4**	44.4 - 95.7		6/26/2015	00:24
Phenol-d5	**37.7**	0 - 90.8		6/26/2015	00:24
Terphenyl-d14	**78.3**	55.1 - 112		6/26/2015	00:24

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 6/19/2015
Data File: B06048.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 2.00	ug/L		6/23/2015	16:30
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		6/23/2015	16:30
1,1,2-Trichloroethane	< 2.00	ug/L		6/23/2015	16:30
1,1-Dichloroethane	< 2.00	ug/L		6/23/2015	16:30

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AP9-061715
Lab Sample ID: 152487-06 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

1,1-Dichloroethene	< 2.00	ug/L	6/23/2015	16:30
1,2,3-Trichlorobenzene	< 5.00	ug/L	6/23/2015	16:30
1,2,4-Trichlorobenzene	< 5.00	ug/L	6/23/2015	16:30
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	6/23/2015	16:30
1,2-Dibromoethane	< 2.00	ug/L	6/23/2015	16:30
1,2-Dichlorobenzene	< 2.00	ug/L	6/23/2015	16:30
1,2-Dichloroethane	< 2.00	ug/L	6/23/2015	16:30
1,2-Dichloropropane	< 2.00	ug/L	6/23/2015	16:30
1,3-Dichlorobenzene	< 2.00	ug/L	6/23/2015	16:30
1,4-Dichlorobenzene	< 2.00	ug/L	6/23/2015	16:30
1,4-dioxane	< 20.0	ug/L	6/23/2015	16:30
2-Butanone	< 10.0	ug/L	6/23/2015	16:30
2-Hexanone	< 5.00	ug/L	6/23/2015	16:30
4-Methyl-2-pentanone	< 5.00	ug/L	6/23/2015	16:30
Acetone	< 10.0	ug/L	6/23/2015	16:30
Benzene	< 1.00	ug/L	6/23/2015	16:30
Bromochloromethane	< 5.00	ug/L	6/23/2015	16:30
Bromodichloromethane	< 2.00	ug/L	6/23/2015	16:30
Bromoform	< 5.00	ug/L	6/23/2015	16:30
Bromomethane	< 2.00	ug/L	6/23/2015	16:30
Carbon disulfide	< 2.00	ug/L	6/23/2015	16:30
Carbon Tetrachloride	< 2.00	ug/L	6/23/2015	16:30
Chlorobenzene	< 2.00	ug/L	6/23/2015	16:30
Chloroethane	< 2.00	ug/L	6/23/2015	16:30
Chloroform	< 2.00	ug/L	6/23/2015	16:30
Chloromethane	< 2.00	ug/L	6/23/2015	16:30
cis-1,2-Dichloroethene	< 2.00	ug/L	6/23/2015	16:30
cis-1,3-Dichloropropene	< 2.00	ug/L	6/23/2015	16:30
Cyclohexane	< 10.0	ug/L	6/23/2015	16:30
Dibromochloromethane	< 2.00	ug/L	6/23/2015	16:30
Dichlorodifluoromethane	< 2.00	ug/L	6/23/2015	16:30
Ethylbenzene	< 2.00	ug/L	6/23/2015	16:30

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AP9-061715
Lab Sample ID: 152487-06 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Freon 113	< 2.00	ug/L			6/23/2015 16:30
Isopropylbenzene	< 2.00	ug/L			6/23/2015 16:30
m,p-Xylene	< 2.00	ug/L			6/23/2015 16:30
Methyl acetate	< 2.00	ug/L			6/23/2015 16:30
Methyl tert-butyl Ether	< 2.00	ug/L			6/23/2015 16:30
Methylcyclohexane	< 2.00	ug/L			6/23/2015 16:30
Methylene chloride	< 5.00	ug/L			6/23/2015 16:30
o-Xylene	< 2.00	ug/L			6/23/2015 16:30
Styrene	< 5.00	ug/L			6/23/2015 16:30
Tetrachloroethene	< 2.00	ug/L			6/23/2015 16:30
Toluene	< 2.00	ug/L			6/23/2015 16:30
trans-1,2-Dichloroethene	< 2.00	ug/L			6/23/2015 16:30
trans-1,3-Dichloropropene	< 2.00	ug/L			6/23/2015 16:30
Trichloroethene	< 2.00	ug/L			6/23/2015 16:30
Trichlorofluoromethane	< 2.00	ug/L			6/23/2015 16:30
Vinyl chloride	< 2.00	ug/L			6/23/2015 16:30

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**110**	82.3 - 115		6/23/2015 16:30
4-Bromofluorobenzene	**84.3**	85.5 - 111	*	6/23/2015 16:30
Pentafluorobenzene	**99.5**	91.2 - 107		6/23/2015 16:30
Toluene-D8	**91.5**	90.9 - 108		6/23/2015 16:30

Method Reference(s): EPA 8260C
EPA 5030
Data File: x23976.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AP10-061715
Lab Sample ID: 152487-07 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		6/23/2015 11:10

Method Reference(s): EPA 245.1
Preparation Date: 6/22/2015
Data File: Hg150623A

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.00500	mg/L		6/24/2015 11:28
Barium	< 0.0500	mg/L		6/24/2015 11:28
Cadmium	< 0.00250	mg/L		6/24/2015 11:28
Chromium	**0.0475**	mg/L		6/24/2015 11:28
Lead	< 0.00500	mg/L		6/24/2015 11:28
Selenium	< 0.00500	mg/L		6/24/2015 11:28
Silver	< 0.00500	mg/L		6/24/2015 11:28

Method Reference(s): EPA 200.7
Preparation Date: 6/23/2015
Data File: 062415a

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 1.00	ug/L		6/23/2015 05:50
PCB-1221	< 1.00	ug/L		6/23/2015 05:50
PCB-1232	< 1.00	ug/L		6/23/2015 05:50
PCB-1242	< 1.00	ug/L		6/23/2015 05:50
PCB-1248	< 1.00	ug/L		6/23/2015 05:50
PCB-1254	< 1.00	ug/L		6/23/2015 05:50
PCB-1260	< 1.00	ug/L		6/23/2015 05:50
PCB-1262	< 1.00	ug/L		6/23/2015 05:50
PCB-1268	< 1.00	ug/L		6/23/2015 05:50

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Friday, June 26, 2015

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AP10-061715
Lab Sample ID: 152487-07 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**78.8**	28.7 - 139		6/23/2015 05:50
Tetrachloro-m-xylene	**51.4**	0 - 110		6/23/2015 05:50

Method Reference(s): EPA 8082A
EPA 3510C
Preparation Date: 6/22/2015

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		6/23/2015 17:46
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		6/23/2015 17:46
1,2,4-Trichlorobenzene	< 10.0	ug/L		6/23/2015 17:46
1,2-Dichlorobenzene	< 10.0	ug/L		6/23/2015 17:46
1,3-Dichlorobenzene	< 10.0	ug/L		6/23/2015 17:46
1,4-Dichlorobenzene	< 10.0	ug/L		6/23/2015 17:46
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		6/23/2015 17:46
2,4,5-Trichlorophenol	< 20.0	ug/L		6/23/2015 17:46
2,4,6-Trichlorophenol	< 10.0	ug/L		6/23/2015 17:46
2,4-Dichlorophenol	< 10.0	ug/L		6/23/2015 17:46
2,4-Dimethylphenol	< 10.0	ug/L		6/23/2015 17:46
2,4-Dinitrophenol	< 20.0	ug/L		6/23/2015 17:46
2,4-Dinitrotoluene	< 10.0	ug/L		6/23/2015 17:46
2,6-Dinitrotoluene	< 10.0	ug/L		6/23/2015 17:46
2-Chloronaphthalene	< 10.0	ug/L		6/23/2015 17:46
2-Chlorophenol	< 10.0	ug/L		6/23/2015 17:46
2-Methylnapthalene	< 10.0	ug/L		6/23/2015 17:46
2-Methylphenol	< 10.0	ug/L		6/23/2015 17:46
2-Nitroaniline	< 20.0	ug/L		6/23/2015 17:46
2-Nitrophenol	< 10.0	ug/L		6/23/2015 17:46
3&4-Methylphenol	< 10.0	ug/L		6/23/2015 17:46
3,3'-Dichlorobenzidine	< 10.0	ug/L		6/23/2015 17:46
3-Nitroaniline	< 20.0	ug/L		6/23/2015 17:46
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		6/23/2015 17:46

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-AP10-061715		
Lab Sample ID:	152487-07	**Date Sampled:**	6/17/2015
Matrix:	Wastewater	**Date Received:**	6/18/2015

4-Bromophenyl phenyl ether	< 10.0	ug/L	6/23/2015 17:46
4-Chloro-3-methylphenol	< 10.0	ug/L	6/23/2015 17:46
4-Chloroaniline	< 10.0	ug/L	6/23/2015 17:46
4-Chlorophenyl phenyl ether	< 10.0	ug/L	6/23/2015 17:46
4-Nitroaniline	< 20.0	ug/L	6/23/2015 17:46
4-Nitrophenol	< 20.0	ug/L	6/23/2015 17:46
Acenaphthene	< 10.0	ug/L	6/23/2015 17:46
Acenaphthylene	< 10.0	ug/L	6/23/2015 17:46
Acetophenone	< 10.0	ug/L	6/23/2015 17:46
Anthracene	< 10.0	ug/L	6/23/2015 17:46
Atrazine	< 10.0	ug/L	6/23/2015 17:46
Benzaldehyde	< 10.0	ug/L	6/23/2015 17:46
Benzo (a) anthracene	< 10.0	ug/L	6/23/2015 17:46
Benzo (a) pyrene	< 10.0	ug/L	6/23/2015 17:46
Benzo (b) fluoranthene	< 10.0	ug/L	6/23/2015 17:46
Benzo (g,h,i) perylene	< 10.0	ug/L	6/23/2015 17:46
Benzo (k) fluoranthene	< 10.0	ug/L	6/23/2015 17:46
Bis (2-chloroethoxy) methane	< 10.0	ug/L	6/23/2015 17:46
Bis (2-chloroethyl) ether	< 10.0	ug/L	6/23/2015 17:46
Bis (2-chloroisopropyl) ether	< 10.0	ug/L	6/23/2015 17:46
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	6/23/2015 17:46
Butylbenzylphthalate	< 10.0	ug/L	6/23/2015 17:46
Caprolactam	< 10.0	ug/L	6/23/2015 17:46
Carbazole	< 10.0	ug/L	6/23/2015 17:46
Chrysene	< 10.0	ug/L	6/23/2015 17:46
Dibenz (a,h) anthracene	< 10.0	ug/L	6/23/2015 17:46
Dibenzofuran	< 10.0	ug/L	6/23/2015 17:46
Diethyl phthalate	< 10.0	ug/L	6/23/2015 17:46
Dimethyl phthalate	< 20.0	ug/L	6/23/2015 17:46
Di-n-butyl phthalate	< 10.0	ug/L	6/23/2015 17:46
Di-n-octylphthalate	< 10.0	ug/L	6/23/2015 17:46
Fluoranthene	< 10.0	ug/L	6/23/2015 17:46

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AP10-061715
Lab Sample ID: 152487-07 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Fluorene	< 10.0	ug/L	6/23/2015	17:46
Hexachlorobenzene	< 10.0	ug/L	6/23/2015	17:46
Hexachlorobutadiene	< 10.0	ug/L	6/23/2015	17:46
Hexachlorocyclopentadiene	< 10.0	ug/L	6/23/2015	17:46
Hexachloroethane	< 10.0	ug/L	6/23/2015	17:46
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	6/23/2015	17:46
Isophorone	< 10.0	ug/L	6/23/2015	17:46
Naphthalene	< 10.0	ug/L	6/23/2015	17:46
Nitrobenzene	< 10.0	ug/L	6/23/2015	17:46
N-Nitroso-di-n-propylamine	< 10.0	ug/L	6/23/2015	17:46
N-Nitrosodiphenylamine	< 10.0	ug/L	6/23/2015	17:46
Pentachlorophenol	< 20.0	ug/L	6/23/2015	17:46
Phenanthrene	< 10.0	ug/L	6/23/2015	17:46
Phenol	< 10.0	ug/L	6/23/2015	17:46
Pyrene	< 10.0	ug/L	6/23/2015	17:46

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**93.5**	27.2 - 132		6/23/2015	17:46
2-Fluorobiphenyl	**72.7**	20.2 - 94.7		6/23/2015	17:46
2-Fluorophenol	**47.2**	5.5 - 92.9		6/23/2015	17:46
Nitrobenzene-d5	**72.0**	44.4 - 95.7		6/23/2015	17:46
Phenol-d5	**37.6**	0 - 90.8		6/23/2015	17:46
Terphenyl-d14	**79.6**	55.1 - 112		6/23/2015	17:46

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 6/19/2015
Data File: B05970.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 2.00	ug/L		6/23/2015	16:54
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		6/23/2015	16:54
1,1,2-Trichloroethane	< 2.00	ug/L		6/23/2015	16:54
1,1-Dichloroethane	< 2.00	ug/L		6/23/2015	16:54

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-AP10-061715		
Lab Sample ID:	152487-07	**Date Sampled:**	6/17/2015
Matrix:	Wastewater	**Date Received:**	6/18/2015

1,1-Dichloroethene	< 2.00	ug/L	6/23/2015	16:54
1,2,3-Trichlorobenzene	< 5.00	ug/L	6/23/2015	16:54
1,2,4-Trichlorobenzene	< 5.00	ug/L	6/23/2015	16:54
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	6/23/2015	16:54
1,2-Dibromoethane	< 2.00	ug/L	6/23/2015	16:54
1,2-Dichlorobenzene	< 2.00	ug/L	6/23/2015	16:54
1,2-Dichloroethane	< 2.00	ug/L	6/23/2015	16:54
1,2-Dichloropropane	< 2.00	ug/L	6/23/2015	16:54
1,3-Dichlorobenzene	< 2.00	ug/L	6/23/2015	16:54
1,4-Dichlorobenzene	**4.34**	ug/L	6/23/2015	16:54
1,4-dioxane	< 20.0	ug/L	6/23/2015	16:54
2-Butanone	< 10.0	ug/L	6/23/2015	16:54
2-Hexanone	< 5.00	ug/L	6/23/2015	16:54
4-Methyl-2-pentanone	< 5.00	ug/L	6/23/2015	16:54
Acetone	< 10.0	ug/L	6/23/2015	16:54
Benzene	< 1.00	ug/L	6/23/2015	16:54
Bromochloromethane	< 5.00	ug/L	6/23/2015	16:54
Bromodichloromethane	< 2.00	ug/L	6/23/2015	16:54
Bromoform	< 5.00	ug/L	6/23/2015	16:54
Bromomethane	< 2.00	ug/L	6/23/2015	16:54
Carbon disulfide	< 2.00	ug/L	6/23/2015	16:54
Carbon Tetrachloride	< 2.00	ug/L	6/23/2015	16:54
Chlorobenzene	< 2.00	ug/L	6/23/2015	16:54
Chloroethane	< 2.00	ug/L	6/23/2015	16:54
Chloroform	< 2.00	ug/L	6/23/2015	16:54
Chloromethane	< 2.00	ug/L	6/23/2015	16:54
cis-1,2-Dichloroethene	< 2.00	ug/L	6/23/2015	16:54
cis-1,3-Dichloropropene	< 2.00	ug/L	6/23/2015	16:54
Cyclohexane	< 10.0	ug/L	6/23/2015	16:54
Dibromochloromethane	< 2.00	ug/L	6/23/2015	16:54
Dichlorodifluoromethane	< 2.00	ug/L	6/23/2015	16:54
Ethylbenzene	< 2.00	ug/L	6/23/2015	16:54

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AP10-061715
Lab Sample ID: 152487-07 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Freon 113	< 2.00	ug/L			6/23/2015 16:54
Isopropylbenzene	< 2.00	ug/L			6/23/2015 16:54
m,p-Xylene	< 2.00	ug/L			6/23/2015 16:54
Methyl acetate	< 2.00	ug/L			6/23/2015 16:54
Methyl tert-butyl Ether	< 2.00	ug/L			6/23/2015 16:54
Methylcyclohexane	< 2.00	ug/L			6/23/2015 16:54
Methylene chloride	< 5.00	ug/L			6/23/2015 16:54
o-Xylene	< 2.00	ug/L			6/23/2015 16:54
Styrene	< 5.00	ug/L			6/23/2015 16:54
Tetrachloroethene	< 2.00	ug/L			6/23/2015 16:54
Toluene	< 2.00	ug/L			6/23/2015 16:54
trans-1,2-Dichloroethene	< 2.00	ug/L			6/23/2015 16:54
trans-1,3-Dichloropropene	< 2.00	ug/L			6/23/2015 16:54
Trichloroethene	< 2.00	ug/L			6/23/2015 16:54
Trichlorofluoromethane	< 2.00	ug/L			6/23/2015 16:54
Vinyl chloride	< 2.00	ug/L			6/23/2015 16:54

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**107**	82.3 - 115		6/23/2015 16:54
4-Bromofluorobenzene	**84.1**	85.5 - 111	*	6/23/2015 16:54
Pentafluorobenzene	**99.7**	91.2 - 107		6/23/2015 16:54
Toluene-D8	**90.3**	90.9 - 108	*	6/23/2015 16:54

Method Reference(s): EPA 8260C
EPA 5030
Data File: x23977.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AP11-061715
Lab Sample ID: 152487-08 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		6/23/2015 11:13

Method Reference(s): EPA 245.1
Preparation Date: 6/22/2015
Data File: Hg150623A

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.00500	mg/L		6/24/2015 11:33
Barium	**0.0706**	mg/L		6/24/2015 11:33
Cadmium	< 0.00250	mg/L		6/24/2015 11:33
Chromium	**0.0581**	mg/L		6/24/2015 11:33
Lead	**0.0300**	mg/L		6/24/2015 11:33
Selenium	**0.00930**	mg/L		6/14/2015 17:59
Silver	< 0.00500	mg/L		6/24/2015 11:33

Method Reference(s): EPA 200.7
Preparation Date: 6/23/2015
Data File: 062415a

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 1.00	ug/L		6/23/2015 10:51
PCB-1221	< 1.00	ug/L		6/23/2015 10:51
PCB-1232	< 1.00	ug/L		6/23/2015 10:51
PCB-1242	< 1.00	ug/L		6/23/2015 10:51
PCB-1248	< 1.00	ug/L		6/23/2015 10:51
PCB-1254	< 1.00	ug/L		6/23/2015 10:51
PCB-1260	< 1.00	ug/L		6/23/2015 10:51
PCB-1262	< 1.00	ug/L		6/23/2015 10:51
PCB-1268	< 1.00	ug/L		6/23/2015 10:51

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Friday, June 26, 2015

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AP11-061715
Lab Sample ID: 152487-08 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**49.9**	28.7 - 139		6/23/2015 10:51
Tetrachloro-m-xylene	**37.1**	0 - 110		6/23/2015 10:51

Method Reference(s): EPA 8082A
EPA 3510C
Preparation Date: 6/22/2015

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		6/23/2015 18:16
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		6/23/2015 18:16
1,2,4-Trichlorobenzene	< 10.0	ug/L		6/23/2015 18:16
1,2-Dichlorobenzene	< 10.0	ug/L		6/23/2015 18:16
1,3-Dichlorobenzene	< 10.0	ug/L		6/23/2015 18:16
1,4-Dichlorobenzene	< 10.0	ug/L		6/23/2015 18:16
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		6/23/2015 18:16
2,4,5-Trichlorophenol	< 20.0	ug/L		6/23/2015 18:16
2,4,6-Trichlorophenol	< 10.0	ug/L		6/23/2015 18:16
2,4-Dichlorophenol	< 10.0	ug/L		6/23/2015 18:16
2,4-Dimethylphenol	**25.2**	ug/L		6/23/2015 18:16
2,4-Dinitrophenol	< 20.0	ug/L		6/23/2015 18:16
2,4-Dinitrotoluene	< 10.0	ug/L		6/23/2015 18:16
2,6-Dinitrotoluene	< 10.0	ug/L		6/23/2015 18:16
2-Chloronaphthalene	< 10.0	ug/L		6/23/2015 18:16
2-Chlorophenol	< 10.0	ug/L		6/23/2015 18:16
2-Methylnapthalene	< 10.0	ug/L		6/23/2015 18:16
2-Methylphenol	< 10.0	ug/L		6/23/2015 18:16
2-Nitroaniline	< 20.0	ug/L		6/23/2015 18:16
2-Nitrophenol	< 10.0	ug/L		6/23/2015 18:16
3&4-Methylphenol	**27.8**	ug/L		6/23/2015 18:16
3,3'-Dichlorobenzidine	< 10.0	ug/L		6/23/2015 18:16
3-Nitroaniline	< 20.0	ug/L		6/23/2015 18:16
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		6/23/2015 18:16

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AP11-061715
Lab Sample ID: 152487-08 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

4-Bromophenyl phenyl ether	< 10.0	ug/L	6/23/2015	18:16
4-Chloro-3-methylphenol	< 10.0	ug/L	6/23/2015	18:16
4-Chloroaniline	< 10.0	ug/L	6/23/2015	18:16
4-Chlorophenyl phenyl ether	< 10.0	ug/L	6/23/2015	18:16
4-Nitroaniline	< 20.0	ug/L	6/23/2015	18:16
4-Nitrophenol	< 20.0	ug/L	6/23/2015	18:16
Acenaphthene	< 10.0	ug/L	6/23/2015	18:16
Acenaphthylene	< 10.0	ug/L	6/23/2015	18:16
Acetophenone	< 10.0	ug/L	6/23/2015	18:16
Anthracene	< 10.0	ug/L	6/23/2015	18:16
Atrazine	< 10.0	ug/L	6/23/2015	18:16
Benzaldehyde	< 10.0	ug/L	6/23/2015	18:16
Benzo (a) anthracene	< 10.0	ug/L	6/23/2015	18:16
Benzo (a) pyrene	< 10.0	ug/L	6/23/2015	18:16
Benzo (b) fluoranthene	< 10.0	ug/L	6/23/2015	18:16
Benzo (g,h,i) perylene	< 10.0	ug/L	6/23/2015	18:16
Benzo (k) fluoranthene	< 10.0	ug/L	6/23/2015	18:16
Bis (2-chloroethoxy) methane	< 10.0	ug/L	6/23/2015	18:16
Bis (2-chloroethyl) ether	< 10.0	ug/L	6/23/2015	18:16
Bis (2-chloroisopropyl) ether	< 10.0	ug/L	6/23/2015	18:16
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	6/23/2015	18:16
Butylbenzylphthalate	< 10.0	ug/L	6/23/2015	18:16
Caprolactam	< 10.0	ug/L	6/23/2015	18:16
Carbazole	< 10.0	ug/L	6/23/2015	18:16
Chrysene	< 10.0	ug/L	6/23/2015	18:16
Dibenz (a,h) anthracene	< 10.0	ug/L	6/23/2015	18:16
Dibenzofuran	< 10.0	ug/L	6/23/2015	18:16
Diethyl phthalate	< 10.0	ug/L	6/23/2015	18:16
Dimethyl phthalate	< 20.0	ug/L	6/23/2015	18:16
Di-n-butyl phthalate	< 10.0	ug/L	6/23/2015	18:16
Di-n-octylphthalate	< 10.0	ug/L	6/23/2015	18:16
Fluoranthene	< 10.0	ug/L	6/23/2015	18:16

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AP11-061715
Lab Sample ID: 152487-08 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Fluorene	< 10.0	ug/L	6/23/2015	18:16
Hexachlorobenzene	< 10.0	ug/L	6/23/2015	18:16
Hexachlorobutadiene	< 10.0	ug/L	6/23/2015	18:16
Hexachlorocyclopentadiene	< 10.0	ug/L	6/23/2015	18:16
Hexachloroethane	< 10.0	ug/L	6/23/2015	18:16
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	6/23/2015	18:16
Isophorone	< 10.0	ug/L	6/23/2015	18:16
Naphthalene	**11.8**	ug/L	6/23/2015	18:16
Nitrobenzene	< 10.0	ug/L	6/23/2015	18:16
N-Nitroso-di-n-propylamine	< 10.0	ug/L	6/23/2015	18:16
N-Nitrosodiphenylamine	< 10.0	ug/L	6/23/2015	18:16
Pentachlorophenol	< 20.0	ug/L	6/23/2015	18:16
Phenanthrene	< 10.0	ug/L	6/23/2015	18:16
Phenol	< 10.0	ug/L	6/23/2015	18:16
Pyrene	< 10.0	ug/L	6/23/2015	18:16

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**29.9**	27.2 - 132		6/23/2015	18:16
2-Fluorobiphenyl	**54.0**	20.2 - 94.7		6/23/2015	18:16
2-Fluorophenol	**16.8**	5.5 - 92.9		6/23/2015	18:16
Nitrobenzene-d5	**54.0**	44.4 - 95.7		6/23/2015	18:16
Phenol-d5	**15.2**	0 - 90.8		6/23/2015	18:16
Terphenyl-d14	**55.5**	55.1 - 112		6/23/2015	18:16

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 6/19/2015
Data File: B05971.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 200	ug/L		6/23/2015	17:17
1,1,2,2-Tetrachloroethane	< 200	ug/L		6/23/2015	17:17
1,1,2-Trichloroethane	< 200	ug/L		6/23/2015	17:17
1,1-Dichloroethane	< 200	ug/L		6/23/2015	17:17

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-AP11-061715		
Lab Sample ID:	152487-08	**Date Sampled:**	6/17/2015
Matrix:	Wastewater	**Date Received:**	6/18/2015

1,1-Dichloroethene	< 200	ug/L	6/23/2015	17:17
1,2,3-Trichlorobenzene	< 500	ug/L	6/23/2015	17:17
1,2,4-Trichlorobenzene	< 500	ug/L	6/23/2015	17:17
1,2-Dibromo-3-Chloropropane	< 1000	ug/L	6/23/2015	17:17
1,2-Dibromoethane	< 200	ug/L	6/23/2015	17:17
1,2-Dichlorobenzene	< 200	ug/L	6/23/2015	17:17
1,2-Dichloroethane	< 200	ug/L	6/23/2015	17:17
1,2-Dichloropropane	< 200	ug/L	6/23/2015	17:17
1,3-Dichlorobenzene	< 200	ug/L	6/23/2015	17:17
1,4-Dichlorobenzene	< 200	ug/L	6/23/2015	17:17
1,4-dioxane	< 2000	ug/L	6/23/2015	17:17
2-Butanone	< 1000	ug/L	6/23/2015	17:17
2-Hexanone	< 500	ug/L	6/23/2015	17:17
4-Methyl-2-pentanone	**2580**	ug/L	6/23/2015	17:17
Acetone	**11700**	ug/L	6/23/2015	17:17
Benzene	< 100	ug/L	6/23/2015	17:17
Bromochloromethane	< 500	ug/L	6/23/2015	17:17
Bromodichloromethane	< 200	ug/L	6/23/2015	17:17
Bromoform	< 500	ug/L	6/23/2015	17:17
Bromomethane	< 200	ug/L	6/23/2015	17:17
Carbon disulfide	< 200	ug/L	6/23/2015	17:17
Carbon Tetrachloride	< 200	ug/L	6/23/2015	17:17
Chlorobenzene	< 200	ug/L	6/23/2015	17:17
Chloroethane	< 200	ug/L	6/23/2015	17:17
Chloroform	< 200	ug/L	6/23/2015	17:17
Chloromethane	< 200	ug/L	6/23/2015	17:17
cis-1,2-Dichloroethene	< 200	ug/L	6/23/2015	17:17
cis-1,3-Dichloropropene	< 200	ug/L	6/23/2015	17:17
Cyclohexane	< 1000	ug/L	6/23/2015	17:17
Dibromochloromethane	< 200	ug/L	6/23/2015	17:17
Dichlorodifluoromethane	< 200	ug/L	6/23/2015	17:17
Ethylbenzene	**719**	ug/L	6/23/2015	17:17

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AP11-061715
Lab Sample ID: 152487-08 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Freon 113	< 200	ug/L		6/23/2015 17:17
Isopropylbenzene	< 200	ug/L		6/23/2015 17:17
m,p-Xylene	**3180**	ug/L		6/23/2015 17:17
Methyl acetate	< 200	ug/L		6/23/2015 17:17
Methyl tert-butyl Ether	< 200	ug/L		6/23/2015 17:17
Methylcyclohexane	< 200	ug/L		6/23/2015 17:17
Methylene chloride	< 500	ug/L		6/23/2015 17:17
o-Xylene	**1110**	ug/L		6/23/2015 17:17
Styrene	< 500	ug/L		6/23/2015 17:17
Tetrachloroethene	< 200	ug/L		6/23/2015 17:17
Toluene	< 200	ug/L		6/23/2015 17:17
trans-1,2-Dichloroethene	< 200	ug/L		6/23/2015 17:17
trans-1,3-Dichloropropene	< 200	ug/L		6/23/2015 17:17
Trichloroethene	< 200	ug/L		6/23/2015 17:17
Trichlorofluoromethane	< 200	ug/L		6/23/2015 17:17
Vinyl chloride	< 200	ug/L		6/23/2015 17:17

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**112**	82.3 - 115		6/23/2015 17:17
4-Bromofluorobenzene	**93.9**	85.5 - 111		6/23/2015 17:17
Pentafluorobenzene	**102**	91.2 - 107		6/23/2015 17:17
Toluene-D8	**100**	90.9 - 108		6/23/2015 17:17

Method Reference(s): EPA 8260C
EPA 5030
Data File: x23978.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Friday, June 26, 2015

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-AP13-061715		
Lab Sample ID:	152487-09	**Date Sampled:**	6/17/2015
Matrix:	Wastewater	**Date Received:**	6/18/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.000537**	mg/L		6/24/2015 11:31

Method Reference(s): EPA 245.1
Preparation Date: 6/23/2015
Data File: Hg150624A

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**0.0214**	mg/L		6/24/2015 11:37
Barium	< 0.0500	mg/L		6/24/2015 11:37
Cadmium	**0.136**	mg/L		6/24/2015 11:37
Chromium	**0.0271**	mg/L		6/24/2015 11:37
Lead	**2.34**	mg/L		6/24/2015 11:37
Selenium	< 0.00500	mg/L		6/24/2015 11:37
Silver	**0.00614**	mg/L		6/24/2015 11:37

Method Reference(s): EPA 200.7
Preparation Date: 6/23/2015
Data File: 062415a

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 1.00	ug/L		6/23/2015 06:37
PCB-1221	< 1.00	ug/L		6/23/2015 06:37
PCB-1232	< 1.00	ug/L		6/23/2015 06:37
PCB-1242	< 1.00	ug/L		6/23/2015 06:37
PCB-1248	< 1.00	ug/L		6/23/2015 06:37
PCB-1254	< 1.00	ug/L		6/23/2015 06:37
PCB-1260	< 1.00	ug/L		6/23/2015 06:37
PCB-1262	< 1.00	ug/L		6/23/2015 06:37
PCB-1268	< 1.00	ug/L		6/23/2015 06:37

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AP13-061715
Lab Sample ID: 152487-09 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**39.7**	28.7 - 139		6/23/2015 06:37
Tetrachloro-m-xylene	**32.0**	0 - 110		6/23/2015 06:37

Method Reference(s): EPA 8082A
EPA 3510C
Preparation Date: 6/22/2015

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		6/23/2015 18:45
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		6/23/2015 18:45
1,2,4-Trichlorobenzene	< 10.0	ug/L		6/23/2015 18:45
1,2-Dichlorobenzene	< 10.0	ug/L		6/23/2015 18:45
1,3-Dichlorobenzene	< 10.0	ug/L		6/23/2015 18:45
1,4-Dichlorobenzene	< 10.0	ug/L		6/23/2015 18:45
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		6/23/2015 18:45
2,4,5-Trichlorophenol	< 20.0	ug/L		6/23/2015 18:45
2,4,6-Trichlorophenol	< 10.0	ug/L		6/23/2015 18:45
2,4-Dichlorophenol	< 10.0	ug/L		6/23/2015 18:45
2,4-Dimethylphenol	< 10.0	ug/L		6/23/2015 18:45
2,4-Dinitrophenol	< 20.0	ug/L		6/23/2015 18:45
2,4-Dinitrotoluene	< 10.0	ug/L		6/23/2015 18:45
2,6-Dinitrotoluene	< 10.0	ug/L		6/23/2015 18:45
2-Chloronaphthalene	< 10.0	ug/L		6/23/2015 18:45
2-Chlorophenol	< 10.0	ug/L		6/23/2015 18:45
2-Methylnapthalene	< 10.0	ug/L		6/23/2015 18:45
2-Methylphenol	< 10.0	ug/L		6/23/2015 18:45
2-Nitroaniline	< 20.0	ug/L		6/23/2015 18:45
2-Nitrophenol	< 10.0	ug/L		6/23/2015 18:45
3&4-Methylphenol	< 10.0	ug/L		6/23/2015 18:45
3,3'-Dichlorobenzidine	< 10.0	ug/L		6/23/2015 18:45
3-Nitroaniline	< 20.0	ug/L		6/23/2015 18:45
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		6/23/2015 18:45

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-AP13-061715		
Lab Sample ID:	152487-09	**Date Sampled:**	6/17/2015
Matrix:	Wastewater	**Date Received:**	6/18/2015

4-Bromophenyl phenyl ether	< 10.0	ug/L	6/23/2015	18:45
4-Chloro-3-methylphenol	< 10.0	ug/L	6/23/2015	18:45
4-Chloroaniline	< 10.0	ug/L	6/23/2015	18:45
4-Chlorophenyl phenyl ether	< 10.0	ug/L	6/23/2015	18:45
4-Nitroaniline	< 20.0	ug/L	6/23/2015	18:45
4-Nitrophenol	< 20.0	ug/L	6/23/2015	18:45
Acenaphthene	< 10.0	ug/L	6/23/2015	18:45
Acenaphthylene	< 10.0	ug/L	6/23/2015	18:45
Acetophenone	< 10.0	ug/L	6/23/2015	18:45
Anthracene	< 10.0	ug/L	6/23/2015	18:45
Atrazine	< 10.0	ug/L	6/23/2015	18:45
Benzaldehyde	< 10.0	ug/L	6/23/2015	18:45
Benzo (a) anthracene	< 10.0	ug/L	6/23/2015	18:45
Benzo (a) pyrene	< 10.0	ug/L	6/23/2015	18:45
Benzo (b) fluoranthene	< 10.0	ug/L	6/23/2015	18:45
Benzo (g,h,i) perylene	< 10.0	ug/L	6/23/2015	18:45
Benzo (k) fluoranthene	< 10.0	ug/L	6/23/2015	18:45
Bis (2-chloroethoxy) methane	< 10.0	ug/L	6/23/2015	18:45
Bis (2-chloroethyl) ether	< 10.0	ug/L	6/23/2015	18:45
Bis (2-chloroisopropyl) ether	< 10.0	ug/L	6/23/2015	18:45
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	6/23/2015	18:45
Butylbenzylphthalate	< 10.0	ug/L	6/23/2015	18:45
Caprolactam	< 10.0	ug/L	6/23/2015	18:45
Carbazole	< 10.0	ug/L	6/23/2015	18:45
Chrysene	< 10.0	ug/L	6/23/2015	18:45
Dibenz (a,h) anthracene	< 10.0	ug/L	6/23/2015	18:45
Dibenzofuran	< 10.0	ug/L	6/23/2015	18:45
Diethyl phthalate	< 10.0	ug/L	6/23/2015	18:45
Dimethyl phthalate	< 20.0	ug/L	6/23/2015	18:45
Di-n-butyl phthalate	< 10.0	ug/L	6/23/2015	18:45
Di-n-octylphthalate	< 10.0	ug/L	6/23/2015	18:45
Fluoranthene	**24.7**	ug/L	6/23/2015	18:45

Sample Identifier: NA-AP13-061715
Lab Sample ID: 152487-09 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Fluorene	< 10.0	ug/L	6/23/2015	18:45
Hexachlorobenzene	< 10.0	ug/L	6/23/2015	18:45
Hexachlorobutadiene	< 10.0	ug/L	6/23/2015	18:45
Hexachlorocyclopentadiene	< 10.0	ug/L	6/23/2015	18:45
Hexachloroethane	< 10.0	ug/L	6/23/2015	18:45
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	6/23/2015	18:45
Isophorone	< 10.0	ug/L	6/23/2015	18:45
Naphthalene	< 10.0	ug/L	6/23/2015	18:45
Nitrobenzene	< 10.0	ug/L	6/23/2015	18:45
N-Nitroso-di-n-propylamine	< 10.0	ug/L	6/23/2015	18:45
N-Nitrosodiphenylamine	< 10.0	ug/L	6/23/2015	18:45
Pentachlorophenol	< 20.0	ug/L	6/23/2015	18:45
Phenanthrene	< 10.0	ug/L	6/23/2015	18:45
Phenol	< 10.0	ug/L	6/23/2015	18:45
Pyrene	**13.8**	ug/L	6/23/2015	18:45

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**70.9**	27.2 - 132		6/23/2015	18:45
2-Fluorobiphenyl	**90.8**	20.2 - 94.7		6/23/2015	18:45
2-Fluorophenol	**35.8**	5.5 - 92.9		6/23/2015	18:45
Nitrobenzene-d5	**72.4**	44.4 - 95.7		6/23/2015	18:45
Phenol-d5	**33.2**	0 - 90.8		6/23/2015	18:45
Terphenyl-d14	**74.3**	55.1 - 112		6/23/2015	18:45

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 6/19/2015
Data File: B05972.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 2.00	ug/L		6/24/2015	17:33
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		6/24/2015	17:33
1,1,2-Trichloroethane	< 2.00	ug/L		6/24/2015	17:33
1,1-Dichloroethane	< 2.00	ug/L		6/24/2015	17:33

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-AP13-061715		
Lab Sample ID:	152487-09	**Date Sampled:**	6/17/2015
Matrix:	Wastewater	**Date Received:**	6/18/2015

1,1-Dichloroethene	< 2.00	ug/L	6/24/2015 17:33
1,2,3-Trichlorobenzene	< 5.00	ug/L	6/24/2015 17:33
1,2,4-Trichlorobenzene	< 5.00	ug/L	6/24/2015 17:33
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	6/24/2015 17:33
1,2-Dibromoethane	< 2.00	ug/L	6/24/2015 17:33
1,2-Dichlorobenzene	< 2.00	ug/L	6/24/2015 17:33
1,2-Dichloroethane	< 2.00	ug/L	6/24/2015 17:33
1,2-Dichloropropane	< 2.00	ug/L	6/24/2015 17:33
1,3-Dichlorobenzene	< 2.00	ug/L	6/24/2015 17:33
1,4-Dichlorobenzene	< 2.00	ug/L	6/24/2015 17:33
1,4-dioxane	< 20.0	ug/L	6/24/2015 17:33
2-Butanone	< 10.0	ug/L	6/24/2015 17:33
2-Hexanone	< 5.00	ug/L	6/24/2015 17:33
4-Methyl-2-pentanone	< 5.00	ug/L	6/24/2015 17:33
Acetone	**16.1**	ug/L	6/24/2015 17:33
Benzene	< 1.00	ug/L	6/24/2015 17:33
Bromochloromethane	< 5.00	ug/L	6/24/2015 17:33
Bromodichloromethane	< 2.00	ug/L	6/24/2015 17:33
Bromoform	< 5.00	ug/L	6/24/2015 17:33
Bromomethane	< 2.00	ug/L	6/24/2015 17:33
Carbon disulfide	< 2.00	ug/L	6/24/2015 17:33
Carbon Tetrachloride	< 2.00	ug/L	6/24/2015 17:33
Chlorobenzene	< 2.00	ug/L	6/24/2015 17:33
Chloroethane	< 2.00	ug/L	6/24/2015 17:33
Chloroform	< 2.00	ug/L	6/24/2015 17:33
Chloromethane	< 2.00	ug/L	6/24/2015 17:33
cis-1,2-Dichloroethene	< 2.00	ug/L	6/24/2015 17:33
cis-1,3-Dichloropropene	< 2.00	ug/L	6/24/2015 17:33
Cyclohexane	< 10.0	ug/L	6/24/2015 17:33
Dibromochloromethane	< 2.00	ug/L	6/24/2015 17:33
Dichlorodifluoromethane	< 2.00	ug/L	6/24/2015 17:33
Ethylbenzene	< 2.00	ug/L	6/24/2015 17:33

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AP13-061715
Lab Sample ID: 152487-09 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Freon 113	< 2.00	ug/L		6/24/2015 17:33
Isopropylbenzene	< 2.00	ug/L		6/24/2015 17:33
m,p-Xylene	< 2.00	ug/L		6/24/2015 17:33
Methyl acetate	< 2.00	ug/L		6/24/2015 17:33
Methyl tert-butyl Ether	< 2.00	ug/L		6/24/2015 17:33
Methylcyclohexane	< 2.00	ug/L		6/24/2015 17:33
Methylene chloride	< 5.00	ug/L		6/24/2015 17:33
o-Xylene	< 2.00	ug/L		6/24/2015 17:33
Styrene	< 5.00	ug/L		6/24/2015 17:33
Tetrachloroethene	< 2.00	ug/L		6/24/2015 17:33
Toluene	< 2.00	ug/L		6/24/2015 17:33
trans-1,2-Dichloroethene	< 2.00	ug/L		6/24/2015 17:33
trans-1,3-Dichloropropene	< 2.00	ug/L		6/24/2015 17:33
Trichloroethene	< 2.00	ug/L		6/24/2015 17:33
Trichlorofluoromethane	< 2.00	ug/L		6/24/2015 17:33
Vinyl chloride	< 2.00	ug/L		6/24/2015 17:33

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**83.9**	82.3 - 115		6/24/2015 17:33
4-Bromofluorobenzene	**93.4**	85.5 - 111		6/24/2015 17:33
Pentafluorobenzene	**104**	91.2 - 107		6/24/2015 17:33
Toluene-D8	**94.3**	90.9 - 108		6/24/2015 17:33

Method Reference(s): EPA 8260C
EPA 5030
Data File: x24037.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AP14-061715
Lab Sample ID: 152487-10 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		6/23/2015 11:20

Method Reference(s): EPA 245.1
Preparation Date: 6/22/2015
Data File: Hg150623A

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.00500	mg/L		6/24/2015 11:41
Barium	**0.0789**	mg/L		6/24/2015 11:41
Cadmium	< 0.00250	mg/L		6/24/2015 11:41
Chromium	< 0.00500	mg/L		6/24/2015 11:41
Lead	**0.0132**	mg/L		6/24/2015 11:41
Selenium	< 0.00500	mg/L		6/24/2015 11:41
Silver	< 0.00500	mg/L		6/24/2015 11:41

Method Reference(s): EPA 200.7
Preparation Date: 6/23/2015
Data File: 062415a

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 1.00	ug/L		6/23/2015 07:00
PCB-1221	< 1.00	ug/L		6/23/2015 07:00
PCB-1232	< 1.00	ug/L		6/23/2015 07:00
PCB-1242	< 1.00	ug/L		6/23/2015 07:00
PCB-1248	< 1.00	ug/L		6/23/2015 07:00
PCB-1254	< 1.00	ug/L		6/23/2015 07:00
PCB-1260	< 1.00	ug/L		6/23/2015 07:00
PCB-1262	< 1.00	ug/L		6/23/2015 07:00
PCB-1268	< 1.00	ug/L		6/23/2015 07:00

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AP14-061715
Lab Sample ID: 152487-10 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**46.9**	28.7 - 139		6/23/2015 07:00
Tetrachloro-m-xylene	**45.6**	0 - 110		6/23/2015 07:00

Method Reference(s): EPA 8082A
EPA 3510C
Preparation Date: 6/22/2015

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		6/23/2015 19:13
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		6/23/2015 19:13
1,2,4-Trichlorobenzene	< 10.0	ug/L		6/23/2015 19:13
1,2-Dichlorobenzene	< 10.0	ug/L		6/23/2015 19:13
1,3-Dichlorobenzene	< 10.0	ug/L		6/23/2015 19:13
1,4-Dichlorobenzene	< 10.0	ug/L		6/23/2015 19:13
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		6/23/2015 19:13
2,4,5-Trichlorophenol	< 20.0	ug/L		6/23/2015 19:13
2,4,6-Trichlorophenol	< 10.0	ug/L		6/23/2015 19:13
2,4-Dichlorophenol	< 10.0	ug/L		6/23/2015 19:13
2,4-Dimethylphenol	< 10.0	ug/L		6/23/2015 19:13
2,4-Dinitrophenol	< 20.0	ug/L		6/23/2015 19:13
2,4-Dinitrotoluene	< 10.0	ug/L		6/23/2015 19:13
2,6-Dinitrotoluene	< 10.0	ug/L		6/23/2015 19:13
2-Chloronaphthalene	< 10.0	ug/L		6/23/2015 19:13
2-Chlorophenol	< 10.0	ug/L		6/23/2015 19:13
2-Methylnapthalene	< 10.0	ug/L		6/23/2015 19:13
2-Methylphenol	< 10.0	ug/L		6/23/2015 19:13
2-Nitroaniline	< 20.0	ug/L		6/23/2015 19:13
2-Nitrophenol	< 10.0	ug/L		6/23/2015 19:13
3&4-Methylphenol	< 10.0	ug/L		6/23/2015 19:13
3,3'-Dichlorobenzidine	< 10.0	ug/L		6/23/2015 19:13
3-Nitroaniline	< 20.0	ug/L		6/23/2015 19:13
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		6/23/2015 19:13

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-AP14-061715		
Lab Sample ID:	152487-10	**Date Sampled:**	6/17/2015
Matrix:	Wastewater	**Date Received:**	6/18/2015

4-Bromophenyl phenyl ether	< 10.0	ug/L	6/23/2015	19:13
4-Chloro-3-methylphenol	< 10.0	ug/L	6/23/2015	19:13
4-Chloroaniline	< 10.0	ug/L	6/23/2015	19:13
4-Chlorophenyl phenyl ether	< 10.0	ug/L	6/23/2015	19:13
4-Nitroaniline	< 20.0	ug/L	6/23/2015	19:13
4-Nitrophenol	< 20.0	ug/L	6/23/2015	19:13
Acenaphthene	< 10.0	ug/L	6/23/2015	19:13
Acenaphthylene	< 10.0	ug/L	6/23/2015	19:13
Acetophenone	< 10.0	ug/L	6/23/2015	19:13
Anthracene	< 10.0	ug/L	6/23/2015	19:13
Atrazine	< 10.0	ug/L	6/23/2015	19:13
Benzaldehyde	< 10.0	ug/L	6/23/2015	19:13
Benzo (a) anthracene	< 10.0	ug/L	6/23/2015	19:13
Benzo (a) pyrene	< 10.0	ug/L	6/23/2015	19:13
Benzo (b) fluoranthene	< 10.0	ug/L	6/23/2015	19:13
Benzo (g,h,i) perylene	< 10.0	ug/L	6/23/2015	19:13
Benzo (k) fluoranthene	< 10.0	ug/L	6/23/2015	19:13
Bis (2-chloroethoxy) methane	< 10.0	ug/L	6/23/2015	19:13
Bis (2-chloroethyl) ether	< 10.0	ug/L	6/23/2015	19:13
Bis (2-chloroisopropyl) ether	< 10.0	ug/L	6/23/2015	19:13
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	6/23/2015	19:13
Butylbenzylphthalate	< 10.0	ug/L	6/23/2015	19:13
Caprolactam	< 10.0	ug/L	6/23/2015	19:13
Carbazole	< 10.0	ug/L	6/23/2015	19:13
Chrysene	< 10.0	ug/L	6/23/2015	19:13
Dibenz (a,h) anthracene	< 10.0	ug/L	6/23/2015	19:13
Dibenzofuran	< 10.0	ug/L	6/23/2015	19:13
Diethyl phthalate	< 10.0	ug/L	6/23/2015	19:13
Dimethyl phthalate	< 20.0	ug/L	6/23/2015	19:13
Di-n-butyl phthalate	< 10.0	ug/L	6/23/2015	19:13
Di-n-octylphthalate	< 10.0	ug/L	6/23/2015	19:13
Fluoranthene	< 10.0	ug/L	6/23/2015	19:13

Sample Identifier: NA-AP14-061715
Lab Sample ID: 152487-10 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Fluorene	< 10.0	ug/L	6/23/2015	19:13
Hexachlorobenzene	< 10.0	ug/L	6/23/2015	19:13
Hexachlorobutadiene	< 10.0	ug/L	6/23/2015	19:13
Hexachlorocyclopentadiene	< 10.0	ug/L	6/23/2015	19:13
Hexachloroethane	< 10.0	ug/L	6/23/2015	19:13
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	6/23/2015	19:13
Isophorone	< 10.0	ug/L	6/23/2015	19:13
Naphthalene	< 10.0	ug/L	6/23/2015	19:13
Nitrobenzene	< 10.0	ug/L	6/23/2015	19:13
N-Nitroso-di-n-propylamine	< 10.0	ug/L	6/23/2015	19:13
N-Nitrosodiphenylamine	< 10.0	ug/L	6/23/2015	19:13
Pentachlorophenol	< 20.0	ug/L	6/23/2015	19:13
Phenanthrene	< 10.0	ug/L	6/23/2015	19:13
Phenol	< 10.0	ug/L	6/23/2015	19:13
Pyrene	< 10.0	ug/L	6/23/2015	19:13

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**89.1**	27.2 - 132		6/23/2015	19:13
2-Fluorobiphenyl	**76.8**	20.2 - 94.7		6/23/2015	19:13
2-Fluorophenol	**52.1**	5.5 - 92.9		6/23/2015	19:13
Nitrobenzene-d5	**69.8**	44.4 - 95.7		6/23/2015	19:13
Phenol-d5	**44.5**	0 - 90.8		6/23/2015	19:13
Terphenyl-d14	**78.6**	55.1 - 112		6/23/2015	19:13

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 6/19/2015
Data File: B05973.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 2.00	ug/L		6/23/2015	18:04
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		6/23/2015	18:04
1,1,2-Trichloroethane	< 2.00	ug/L		6/23/2015	18:04
1,1-Dichloroethane	< 2.00	ug/L		6/23/2015	18:04

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-AP14-061715		
Lab Sample ID:	152487-10	**Date Sampled:**	6/17/2015
Matrix:	Wastewater	**Date Received:**	6/18/2015

1,1-Dichloroethene	< 2.00	ug/L	6/23/2015	18:04
1,2,3-Trichlorobenzene	< 5.00	ug/L	6/23/2015	18:04
1,2,4-Trichlorobenzene	< 5.00	ug/L	6/23/2015	18:04
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	6/23/2015	18:04
1,2-Dibromoethane	< 2.00	ug/L	6/23/2015	18:04
1,2-Dichlorobenzene	< 2.00	ug/L	6/23/2015	18:04
1,2-Dichloroethane	< 2.00	ug/L	6/23/2015	18:04
1,2-Dichloropropane	< 2.00	ug/L	6/23/2015	18:04
1,3-Dichlorobenzene	< 2.00	ug/L	6/23/2015	18:04
1,4-Dichlorobenzene	< 2.00	ug/L	6/23/2015	18:04
1,4-dioxane	< 20.0	ug/L	6/23/2015	18:04
2-Butanone	< 10.0	ug/L	6/23/2015	18:04
2-Hexanone	< 5.00	ug/L	6/23/2015	18:04
4-Methyl-2-pentanone	< 5.00	ug/L	6/23/2015	18:04
Acetone	< 10.0	ug/L	6/23/2015	18:04
Benzene	< 1.00	ug/L	6/23/2015	18:04
Bromochloromethane	< 5.00	ug/L	6/23/2015	18:04
Bromodichloromethane	< 2.00	ug/L	6/23/2015	18:04
Bromoform	< 5.00	ug/L	6/23/2015	18:04
Bromomethane	< 2.00	ug/L	6/23/2015	18:04
Carbon disulfide	< 2.00	ug/L	6/23/2015	18:04
Carbon Tetrachloride	< 2.00	ug/L	6/23/2015	18:04
Chlorobenzene	< 2.00	ug/L	6/23/2015	18:04
Chloroethane	< 2.00	ug/L	6/23/2015	18:04
Chloroform	< 2.00	ug/L	6/23/2015	18:04
Chloromethane	< 2.00	ug/L	6/23/2015	18:04
cis-1,2-Dichloroethene	< 2.00	ug/L	6/23/2015	18:04
cis-1,3-Dichloropropene	< 2.00	ug/L	6/23/2015	18:04
Cyclohexane	< 10.0	ug/L	6/23/2015	18:04
Dibromochloromethane	< 2.00	ug/L	6/23/2015	18:04
Dichlorodifluoromethane	< 2.00	ug/L	6/23/2015	18:04
Ethylbenzene	< 2.00	ug/L	6/23/2015	18:04

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AP14-061715
Lab Sample ID: 152487-10 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Freon 113	< 2.00	ug/L	6/23/2015	18:04
Isopropylbenzene	< 2.00	ug/L	6/23/2015	18:04
m,p-Xylene	< 2.00	ug/L	6/23/2015	18:04
Methyl acetate	< 2.00	ug/L	6/23/2015	18:04
Methyl tert-butyl Ether	< 2.00	ug/L	6/23/2015	18:04
Methylcyclohexane	< 2.00	ug/L	6/23/2015	18:04
Methylene chloride	< 5.00	ug/L	6/23/2015	18:04
o-Xylene	< 2.00	ug/L	6/23/2015	18:04
Styrene	< 5.00	ug/L	6/23/2015	18:04
Tetrachloroethene	< 2.00	ug/L	6/23/2015	18:04
Toluene	< 2.00	ug/L	6/23/2015	18:04
trans-1,2-Dichloroethene	< 2.00	ug/L	6/23/2015	18:04
trans-1,3-Dichloropropene	< 2.00	ug/L	6/23/2015	18:04
Trichloroethene	< 2.00	ug/L	6/23/2015	18:04
Trichlorofluoromethane	< 2.00	ug/L	6/23/2015	18:04
Vinyl chloride	< 2.00	ug/L	6/23/2015	18:04

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**107**	82.3 - 115		6/23/2015	18:04
4-Bromofluorobenzene	**106**	85.5 - 111		6/23/2015	18:04
Pentafluorobenzene	**102**	91.2 - 107		6/23/2015	18:04
Toluene-D8	**96.3**	90.9 - 108		6/23/2015	18:04

Method Reference(s): EPA 8260C
EPA 5030
Data File: x23980.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AWLTF-061715
Lab Sample ID: 152487-11 **Date Sampled:** 6/17/2015
Matrix: Oil **Date Received:** 6/18/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Barium	< 4.63	mg/Kg		6/23/2015 18:46
Cadmium	**1.69**	mg/Kg		6/23/2015 18:46
Chromium	**1.13**	mg/Kg		6/23/2015 18:46
Lead	**8.73**	mg/Kg		6/23/2015 18:46

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 6/23/2015
Data File: 062315b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.971	mg/Kg		6/24/2015 09:28
PCB-1221	< 0.971	mg/Kg		6/24/2015 09:28
PCB-1232	< 0.971	mg/Kg		6/24/2015 09:28
PCB-1242	< 0.971	mg/Kg		6/24/2015 09:28
PCB-1248	< 0.971	mg/Kg		6/24/2015 09:28
PCB-1254	< 0.971	mg/Kg		6/24/2015 09:28
PCB-1260	< 0.971	mg/Kg		6/24/2015 09:28
PCB-1262	< 0.971	mg/Kg		6/24/2015 09:28
PCB-1268	< 0.971	mg/Kg		6/24/2015 09:28

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**19.9**	15.9 - 131		6/24/2015 09:28
Tetrachloro-m-xylene	**60.0**	30.3 - 87.5		6/24/2015 09:28

Method Reference(s): EPA 8082A
EPA 3580A
Preparation Date: 6/23/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 971	ug/Kg		6/23/2015 20:02
1,1,2,2-Tetrachloroethane	< 971	ug/Kg		6/23/2015 20:02

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-AWLTF-061715		
Lab Sample ID:	152487-11	**Date Sampled:**	6/17/2015
Matrix:	Oil	**Date Received:**	6/18/2015

1,1,2-Trichloroethane	< 971	ug/Kg	6/23/2015	20:02
1,1-Dichloroethane	< 971	ug/Kg	6/23/2015	20:02
1,1-Dichloroethene	< 971	ug/Kg	6/23/2015	20:02
1,2,3-Trichlorobenzene	< 2430	ug/Kg	6/23/2015	20:02
1,2,4-Trichlorobenzene	< 2430	ug/Kg	6/23/2015	20:02
1,2-Dibromo-3-Chloropropane	< 4860	ug/Kg	6/23/2015	20:02
1,2-Dibromoethane	< 971	ug/Kg	6/23/2015	20:02
1,2-Dichlorobenzene	< 971	ug/Kg	6/23/2015	20:02
1,2-Dichloroethane	< 971	ug/Kg	6/23/2015	20:02
1,2-Dichloropropane	< 971	ug/Kg	6/23/2015	20:02
1,3-Dichlorobenzene	< 971	ug/Kg	6/23/2015	20:02
1,4-Dichlorobenzene	< 971	ug/Kg	6/23/2015	20:02
1,4-dioxane	< 9710	ug/Kg	6/23/2015	20:02
2-Butanone	< 4860	ug/Kg	6/23/2015	20:02
2-Hexanone	< 2430	ug/Kg	6/23/2015	20:02
4-Methyl-2-pentanone	< 2430	ug/Kg	6/23/2015	20:02
Acetone	< 4860	ug/Kg	6/23/2015	20:02
Benzene	< 971	ug/Kg	6/23/2015	20:02
Bromochloromethane	< 2430	ug/Kg	6/23/2015	20:02
Bromodichloromethane	< 971	ug/Kg	6/23/2015	20:02
Bromoform	< 2430	ug/Kg	6/23/2015	20:02
Bromomethane	< 971	ug/Kg	6/23/2015	20:02
Carbon disulfide	< 971	ug/Kg	6/23/2015	20:02
Carbon Tetrachloride	< 971	ug/Kg	6/23/2015	20:02
Chlorobenzene	< 971	ug/Kg	6/23/2015	20:02
Chloroethane	< 971	ug/Kg	6/23/2015	20:02
Chloroform	< 971	ug/Kg	6/23/2015	20:02
Chloromethane	< 971	ug/Kg	6/23/2015	20:02
cis-1,2-Dichloroethene	< 971	ug/Kg	6/23/2015	20:02
cis-1,3-Dichloropropene	< 971	ug/Kg	6/23/2015	20:02
Cyclohexane	< 4860	ug/Kg	6/23/2015	20:02
Dibromochloromethane	< 971	ug/Kg	6/23/2015	20:02

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AWLTF-061715
Lab Sample ID: 152487-11 **Date Sampled:** 6/17/2015
Matrix: Oil **Date Received:** 6/18/2015

Dichlorodifluoromethane	< 971	ug/Kg	6/23/2015	20:02
Ethylbenzene	< 971	ug/Kg	6/23/2015	20:02
Freon 113	< 971	ug/Kg	6/23/2015	20:02
Isopropylbenzene	< 971	ug/Kg	6/23/2015	20:02
m,p-Xylene	< 971	ug/Kg	6/23/2015	20:02
Methyl acetate	< 971	ug/Kg	6/23/2015	20:02
Methyl tert-butyl Ether	< 971	ug/Kg	6/23/2015	20:02
Methylcyclohexane	< 971	ug/Kg	6/23/2015	20:02
Methylene chloride	< 2430	ug/Kg	6/23/2015	20:02
o-Xylene	< 971	ug/Kg	6/23/2015	20:02
Styrene	< 2430	ug/Kg	6/23/2015	20:02
Tetrachloroethene	< 971	ug/Kg	6/23/2015	20:02
Toluene	< 971	ug/Kg	6/23/2015	20:02
trans-1,2-Dichloroethene	< 971	ug/Kg	6/23/2015	20:02
trans-1,3-Dichloropropene	< 971	ug/Kg	6/23/2015	20:02
Trichloroethene	< 971	ug/Kg	6/23/2015	20:02
Trichlorofluoromethane	< 971	ug/Kg	6/23/2015	20:02
Vinyl chloride	< 971	ug/Kg	6/23/2015	20:02

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**108**	80.6 - 125		6/23/2015	20:02
4-Bromofluorobenzene	**93.9**	86.6 - 111		6/23/2015	20:02
Pentafluorobenzene	**105**	90.9 - 107		6/23/2015	20:02
Toluene-D8	**95.3**	90.8 - 109		6/23/2015	20:02

Reporting limit elevated due to oil matrix

Method Reference(s): EPA 8260C
EPA 3585

Data File: x23985.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-AWFloor-061715		
Lab Sample ID:	152487-12	**Date Sampled:**	6/17/2015
Matrix:	Solid	**Date Received:**	6/18/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0102**	mg/Kg		6/23/2015 15:09

Method Reference(s): EPA 7471B
Preparation Date: 6/23/2015
Data File: Hg150623B

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**1.95**	mg/Kg		6/23/2015 18:50
Barium	**71.2**	mg/Kg		6/23/2015 18:50
Cadmium	**1.39**	mg/Kg		6/23/2015 18:50
Chromium	**30.3**	mg/Kg		6/23/2015 18:50
Lead	**68.4**	mg/Kg		6/23/2015 18:50
Selenium	**1.20**	mg/Kg		6/24/2015 18:28
Silver	**0.931**	mg/Kg		6/23/2015 18:50

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 6/23/2015
Data File: 062315b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.361	mg/Kg		6/22/2015 20:53
PCB-1221	< 0.361	mg/Kg		6/22/2015 20:53
PCB-1232	< 0.361	mg/Kg		6/22/2015 20:53
PCB-1242	< 0.361	mg/Kg		6/22/2015 20:53
PCB-1248	< 0.361	mg/Kg		6/22/2015 20:53
PCB-1254	**0.590**	mg/Kg		6/22/2015 20:53
PCB-1260	< 0.361	mg/Kg		6/22/2015 20:53
PCB-1262	< 0.361	mg/Kg		6/22/2015 20:53
PCB-1268	< 0.361	mg/Kg		6/22/2015 20:53

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Report Prepared Friday, June 26, 2015

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AWFloor-061715
Lab Sample ID: 152487-12 **Date Sampled:** 6/17/2015
Matrix: Solid **Date Received:** 6/18/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**72.4**	30.5 - 159		6/22/2015 20:53
Tetrachloro-m-xylene	**60.5**	23.2 - 144		6/22/2015 20:53

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 6/22/2015

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 240000	ug/Kg		6/26/2015 00:53
1,2,4,5-Tetrachlorobenzene	< 240000	ug/Kg		6/26/2015 00:53
1,2,4-Trichlorobenzene	< 240000	ug/Kg		6/26/2015 00:53
1,2-Dichlorobenzene	< 240000	ug/Kg		6/26/2015 00:53
1,3-Dichlorobenzene	< 240000	ug/Kg		6/26/2015 00:53
1,4-Dichlorobenzene	< 240000	ug/Kg		6/26/2015 00:53
2,3,4,6-Tetrachlorophenol	< 240000	ug/Kg		6/26/2015 00:53
2,4,5-Trichlorophenol	< 481000	ug/Kg		6/26/2015 00:53
2,4,6-Trichlorophenol	< 240000	ug/Kg		6/26/2015 00:53
2,4-Dichlorophenol	< 240000	ug/Kg		6/26/2015 00:53
2,4-Dimethylphenol	< 240000	ug/Kg		6/26/2015 00:53
2,4-Dinitrophenol	< 481000	ug/Kg		6/26/2015 00:53
2,4-Dinitrotoluene	< 240000	ug/Kg		6/26/2015 00:53
2,6-Dinitrotoluene	< 240000	ug/Kg		6/26/2015 00:53
2-Chloronaphthalene	< 240000	ug/Kg		6/26/2015 00:53
2-Chlorophenol	< 240000	ug/Kg		6/26/2015 00:53
2-Methylnapthalene	< 240000	ug/Kg		6/26/2015 00:53
2-Methylphenol	< 240000	ug/Kg		6/26/2015 00:53
2-Nitroaniline	< 481000	ug/Kg		6/26/2015 00:53
2-Nitrophenol	< 240000	ug/Kg		6/26/2015 00:53
3&4-Methylphenol	< 240000	ug/Kg		6/26/2015 00:53
3,3'-Dichlorobenzidine	< 240000	ug/Kg		6/26/2015 00:53
3-Nitroaniline	< 481000	ug/Kg		6/26/2015 00:53
4,6-Dinitro-2-methylphenol	< 481000	ug/Kg		6/26/2015 00:53

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-AWFloor-061715		
Lab Sample ID:	152487-12	**Date Sampled:**	6/17/2015
Matrix:	Solid	**Date Received:**	6/18/2015

4-Bromophenyl phenyl ether	< 240000	ug/Kg	6/26/2015	00:53
4-Chloro-3-methylphenol	< 240000	ug/Kg	6/26/2015	00:53
4-Chloroaniline	< 240000	ug/Kg	6/26/2015	00:53
4-Chlorophenyl phenyl ether	< 240000	ug/Kg	6/26/2015	00:53
4-Nitroaniline	< 481000	ug/Kg	6/26/2015	00:53
4-Nitrophenol	< 481000	ug/Kg	6/26/2015	00:53
Acenaphthene	< 240000	ug/Kg	6/26/2015	00:53
Acenaphthylene	< 240000	ug/Kg	6/26/2015	00:53
Acetophenone	< 240000	ug/Kg	6/26/2015	00:53
Anthracene	< 240000	ug/Kg	6/26/2015	00:53
Atrazine	< 240000	ug/Kg	6/26/2015	00:53
Benzaldehyde	< 240000	ug/Kg	6/26/2015	00:53
Benzo (a) anthracene	**498000**	ug/Kg	6/26/2015	00:53
Benzo (a) pyrene	**357000**	ug/Kg	6/26/2015	00:53
Benzo (b) fluoranthene	**416000**	ug/Kg	6/26/2015	00:53
Benzo (g,h,i) perylene	< 240000	ug/Kg	6/26/2015	00:53
Benzo (k) fluoranthene	**323000**	ug/Kg	6/26/2015	00:53
Bis (2-chloroethoxy) methane	< 240000	ug/Kg	6/26/2015	00:53
Bis (2-chloroethyl) ether	< 240000	ug/Kg	6/26/2015	00:53
Bis (2-chloroisopropyl) ether	< 240000	ug/Kg	6/26/2015	00:53
Bis (2-ethylhexyl) phthalate	< 240000	ug/Kg	6/26/2015	00:53
Butylbenzylphthalate	< 240000	ug/Kg	6/26/2015	00:53
Caprolactam	< 240000	ug/Kg	6/26/2015	00:53
Carbazole	< 240000	ug/Kg	6/26/2015	00:53
Chrysene	**555000**	ug/Kg	6/26/2015	00:53
Dibenz (a,h) anthracene	< 240000	ug/Kg	6/26/2015	00:53
Dibenzofuran	< 240000	ug/Kg	6/26/2015	00:53
Diethyl phthalate	< 240000	ug/Kg	6/26/2015	00:53
Dimethyl phthalate	< 481000	ug/Kg	6/26/2015	00:53
Di-n-butyl phthalate	< 240000	ug/Kg	6/26/2015	00:53
Di-n-octylphthalate	< 240000	ug/Kg	6/26/2015	00:53
Fluoranthene	**1510000**	ug/Kg	6/26/2015	00:53

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-AWFloor-061715
Lab Sample ID: 152487-12 **Date Sampled:** 6/17/2015
Matrix: Solid **Date Received:** 6/18/2015

Fluorene	< 240000	ug/Kg	6/26/2015	00:53
Hexachlorobenzene	< 240000	ug/Kg	6/26/2015	00:53
Hexachlorobutadiene	< 240000	ug/Kg	6/26/2015	00:53
Hexachlorocyclopentadiene	< 240000	ug/Kg	6/26/2015	00:53
Hexachloroethane	< 240000	ug/Kg	6/26/2015	00:53
Indeno (1,2,3-cd) pyrene	**316000**	ug/Kg	6/26/2015	00:53
Isophorone	< 240000	ug/Kg	6/26/2015	00:53
Naphthalene	< 240000	ug/Kg	6/26/2015	00:53
Nitrobenzene	< 240000	ug/Kg	6/26/2015	00:53
N-Nitroso-di-n-propylamine	< 240000	ug/Kg	6/26/2015	00:53
N-Nitrosodiphenylamine	< 240000	ug/Kg	6/26/2015	00:53
Pentachlorophenol	< 481000	ug/Kg	6/26/2015	00:53
Phenanthrene	**1220000**	ug/Kg	6/26/2015	00:53
Phenol	< 240000	ug/Kg	6/26/2015	00:53
Pyrene	**1100000**	ug/Kg	6/26/2015	00:53

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	NC	41.6 - 115		6/26/2015	00:53
2-Fluorobiphenyl	NC	35.9 - 103		6/26/2015	00:53
2-Fluorophenol	NC	39.9 - 87.9		6/26/2015	00:53
Nitrobenzene-d5	NC	37.2 - 90.6		6/26/2015	00:53
Phenol-d5	NC	42.3 - 90.6		6/26/2015	00:53
Terphenyl-d14	NC	58.2 - 113		6/26/2015	00:53

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 6/22/2015
Data File: B06049.D

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Report Prepared Friday, June 26, 2015

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-CP2-061715		
Lab Sample ID:	152487-13	**Date Sampled:**	6/17/2015
Matrix:	Wastewater	**Date Received:**	6/18/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		6/23/2015 12:03

Method Reference(s): EPA 245.1
Preparation Date: 6/22/2015
Data File: Hg150623A

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.00500	mg/L		6/24/2015 11:45
Barium	< 0.0500	mg/L		6/24/2015 11:45
Cadmium	< 0.00250	mg/L		6/24/2015 11:45
Chromium	**0.0416**	mg/L		6/24/2015 11:45
Lead	< 0.00500	mg/L		6/24/2015 11:45
Selenium	**0.00800**	mg/L		6/24/2015 18:04
Silver	< 0.00500	mg/L		6/24/2015 11:45

Method Reference(s): EPA 200.7
Preparation Date: 6/23/2015
Data File: 062415a

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 1.00	ug/L		6/23/2015 07:23
PCB-1221	< 1.00	ug/L		6/23/2015 07:23
PCB-1232	< 1.00	ug/L		6/23/2015 07:23
PCB-1242	< 1.00	ug/L		6/23/2015 07:23
PCB-1248	< 1.00	ug/L		6/23/2015 07:23
PCB-1254	< 1.00	ug/L		6/23/2015 07:23
PCB-1260	< 1.00	ug/L		6/23/2015 07:23
PCB-1262	< 1.00	ug/L		6/23/2015 07:23
PCB-1268	< 1.00	ug/L		6/23/2015 07:23

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-CP2-061715
Lab Sample ID: 152487-13 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**65.3**	28.7 - 139		6/23/2015 07:23
Tetrachloro-m-xylene	**55.7**	0 - 110		6/23/2015 07:23

Method Reference(s): EPA 8082A
EPA 3510C
Preparation Date: 6/22/2015

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		6/23/2015 19:42
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		6/23/2015 19:42
1,2,4-Trichlorobenzene	< 10.0	ug/L		6/23/2015 19:42
1,2-Dichlorobenzene	< 10.0	ug/L		6/23/2015 19:42
1,3-Dichlorobenzene	< 10.0	ug/L		6/23/2015 19:42
1,4-Dichlorobenzene	< 10.0	ug/L		6/23/2015 19:42
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		6/23/2015 19:42
2,4,5-Trichlorophenol	< 20.0	ug/L		6/23/2015 19:42
2,4,6-Trichlorophenol	< 10.0	ug/L		6/23/2015 19:42
2,4-Dichlorophenol	< 10.0	ug/L		6/23/2015 19:42
2,4-Dimethylphenol	< 10.0	ug/L		6/23/2015 19:42
2,4-Dinitrophenol	< 20.0	ug/L		6/23/2015 19:42
2,4-Dinitrotoluene	< 10.0	ug/L		6/23/2015 19:42
2,6-Dinitrotoluene	< 10.0	ug/L		6/23/2015 19:42
2-Chloronaphthalene	< 10.0	ug/L		6/23/2015 19:42
2-Chlorophenol	< 10.0	ug/L		6/23/2015 19:42
2-Methylnapthalene	< 10.0	ug/L		6/23/2015 19:42
2-Methylphenol	< 10.0	ug/L		6/23/2015 19:42
2-Nitroaniline	< 20.0	ug/L		6/23/2015 19:42
2-Nitrophenol	< 10.0	ug/L		6/23/2015 19:42
3&4-Methylphenol	< 10.0	ug/L		6/23/2015 19:42
3,3'-Dichlorobenzidine	< 10.0	ug/L		6/23/2015 19:42
3-Nitroaniline	< 20.0	ug/L		6/23/2015 19:42
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		6/23/2015 19:42

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-CP2-061715
Lab Sample ID: 152487-13 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

4-Bromophenyl phenyl ether	< 10.0	ug/L	6/23/2015	19:42
4-Chloro-3-methylphenol	< 10.0	ug/L	6/23/2015	19:42
4-Chloroaniline	< 10.0	ug/L	6/23/2015	19:42
4-Chlorophenyl phenyl ether	< 10.0	ug/L	6/23/2015	19:42
4-Nitroaniline	< 20.0	ug/L	6/23/2015	19:42
4-Nitrophenol	< 20.0	ug/L	6/23/2015	19:42
Acenaphthene	< 10.0	ug/L	6/23/2015	19:42
Acenaphthylene	< 10.0	ug/L	6/23/2015	19:42
Acetophenone	< 10.0	ug/L	6/23/2015	19:42
Anthracene	< 10.0	ug/L	6/23/2015	19:42
Atrazine	< 10.0	ug/L	6/23/2015	19:42
Benzaldehyde	< 10.0	ug/L	6/23/2015	19:42
Benzo (a) anthracene	< 10.0	ug/L	6/23/2015	19:42
Benzo (a) pyrene	< 10.0	ug/L	6/23/2015	19:42
Benzo (b) fluoranthene	< 10.0	ug/L	6/23/2015	19:42
Benzo (g,h,i) perylene	< 10.0	ug/L	6/23/2015	19:42
Benzo (k) fluoranthene	< 10.0	ug/L	6/23/2015	19:42
Bis (2-chloroethoxy) methane	< 10.0	ug/L	6/23/2015	19:42
Bis (2-chloroethyl) ether	< 10.0	ug/L	6/23/2015	19:42
Bis (2-chloroisopropyl) ether	< 10.0	ug/L	6/23/2015	19:42
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	6/23/2015	19:42
Butylbenzylphthalate	< 10.0	ug/L	6/23/2015	19:42
Caprolactam	< 10.0	ug/L	6/23/2015	19:42
Carbazole	< 10.0	ug/L	6/23/2015	19:42
Chrysene	< 10.0	ug/L	6/23/2015	19:42
Dibenz (a,h) anthracene	< 10.0	ug/L	6/23/2015	19:42
Dibenzofuran	< 10.0	ug/L	6/23/2015	19:42
Diethyl phthalate	< 10.0	ug/L	6/23/2015	19:42
Dimethyl phthalate	< 20.0	ug/L	6/23/2015	19:42
Di-n-butyl phthalate	< 10.0	ug/L	6/23/2015	19:42
Di-n-octylphthalate	< 10.0	ug/L	6/23/2015	19:42
Fluoranthene	< 10.0	ug/L	6/23/2015	19:42

Sample Identifier: NA-CP2-061715
Lab Sample ID: 152487-13 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Fluorene	< 10.0	ug/L	6/23/2015	19:42
Hexachlorobenzene	< 10.0	ug/L	6/23/2015	19:42
Hexachlorobutadiene	< 10.0	ug/L	6/23/2015	19:42
Hexachlorocyclopentadiene	< 10.0	ug/L	6/23/2015	19:42
Hexachloroethane	< 10.0	ug/L	6/23/2015	19:42
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	6/23/2015	19:42
Isophorone	< 10.0	ug/L	6/23/2015	19:42
Naphthalene	< 10.0	ug/L	6/23/2015	19:42
Nitrobenzene	< 10.0	ug/L	6/23/2015	19:42
N-Nitroso-di-n-propylamine	< 10.0	ug/L	6/23/2015	19:42
N-Nitrosodiphenylamine	< 10.0	ug/L	6/23/2015	19:42
Pentachlorophenol	< 20.0	ug/L	6/23/2015	19:42
Phenanthrene	< 10.0	ug/L	6/23/2015	19:42
Phenol	< 10.0	ug/L	6/23/2015	19:42
Pyrene	< 10.0	ug/L	6/23/2015	19:42

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**31.9**	27.2 - 132		6/23/2015	19:42
2-Fluorobiphenyl	**77.1**	20.2 - 94.7		6/23/2015	19:42
2-Fluorophenol	**20.1**	5.5 - 92.9		6/23/2015	19:42
Nitrobenzene-d5	**72.4**	44.4 - 95.7		6/23/2015	19:42
Phenol-d5	**33.5**	0 - 90.8		6/23/2015	19:42
Terphenyl-d14	**82.1**	55.1 - 112		6/23/2015	19:42

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 6/19/2015
Data File: B05974.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 2.00	ug/L		6/23/2015	18:28
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		6/23/2015	18:28
1,1,2-Trichloroethane	< 2.00	ug/L		6/23/2015	18:28
1,1-Dichloroethane	< 2.00	ug/L		6/23/2015	18:28

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-CP2-061715		
Lab Sample ID:	152487-13	**Date Sampled:**	6/17/2015
Matrix:	Wastewater	**Date Received:**	6/18/2015

1,1-Dichloroethene	< 2.00	ug/L	6/23/2015	18:28
1,2,3-Trichlorobenzene	< 5.00	ug/L	6/23/2015	18:28
1,2,4-Trichlorobenzene	< 5.00	ug/L	6/23/2015	18:28
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	6/23/2015	18:28
1,2-Dibromoethane	< 2.00	ug/L	6/23/2015	18:28
1,2-Dichlorobenzene	< 2.00	ug/L	6/23/2015	18:28
1,2-Dichloroethane	< 2.00	ug/L	6/23/2015	18:28
1,2-Dichloropropane	< 2.00	ug/L	6/23/2015	18:28
1,3-Dichlorobenzene	< 2.00	ug/L	6/23/2015	18:28
1,4-Dichlorobenzene	< 2.00	ug/L	6/23/2015	18:28
1,4-dioxane	< 20.0	ug/L	6/23/2015	18:28
2-Butanone	< 10.0	ug/L	6/23/2015	18:28
2-Hexanone	< 5.00	ug/L	6/23/2015	18:28
4-Methyl-2-pentanone	< 5.00	ug/L	6/23/2015	18:28
Acetone	< 10.0	ug/L	6/23/2015	18:28
Benzene	< 1.00	ug/L	6/23/2015	18:28
Bromochloromethane	< 5.00	ug/L	6/23/2015	18:28
Bromodichloromethane	< 2.00	ug/L	6/23/2015	18:28
Bromoform	< 5.00	ug/L	6/23/2015	18:28
Bromomethane	< 2.00	ug/L	6/23/2015	18:28
Carbon disulfide	< 2.00	ug/L	6/23/2015	18:28
Carbon Tetrachloride	< 2.00	ug/L	6/23/2015	18:28
Chlorobenzene	< 2.00	ug/L	6/23/2015	18:28
Chloroethane	< 2.00	ug/L	6/23/2015	18:28
Chloroform	< 2.00	ug/L	6/23/2015	18:28
Chloromethane	< 2.00	ug/L	6/23/2015	18:28
cis-1,2-Dichloroethene	< 2.00	ug/L	6/23/2015	18:28
cis-1,3-Dichloropropene	< 2.00	ug/L	6/23/2015	18:28
Cyclohexane	< 10.0	ug/L	6/23/2015	18:28
Dibromochloromethane	< 2.00	ug/L	6/23/2015	18:28
Dichlorodifluoromethane	< 2.00	ug/L	6/23/2015	18:28
Ethylbenzene	< 2.00	ug/L	6/23/2015	18:28

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-CP2-061715
Lab Sample ID: 152487-13 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Freon 113	< 2.00	ug/L	6/23/2015	18:28
Isopropylbenzene	< 2.00	ug/L	6/23/2015	18:28
m,p-Xylene	< 2.00	ug/L	6/23/2015	18:28
Methyl acetate	< 2.00	ug/L	6/23/2015	18:28
Methyl tert-butyl Ether	< 2.00	ug/L	6/23/2015	18:28
Methylcyclohexane	< 2.00	ug/L	6/23/2015	18:28
Methylene chloride	< 5.00	ug/L	6/23/2015	18:28
o-Xylene	< 2.00	ug/L	6/23/2015	18:28
Styrene	< 5.00	ug/L	6/23/2015	18:28
Tetrachloroethene	< 2.00	ug/L	6/23/2015	18:28
Toluene	< 2.00	ug/L	6/23/2015	18:28
trans-1,2-Dichloroethene	< 2.00	ug/L	6/23/2015	18:28
trans-1,3-Dichloropropene	< 2.00	ug/L	6/23/2015	18:28
Trichloroethene	< 2.00	ug/L	6/23/2015	18:28
Trichlorofluoromethane	< 2.00	ug/L	6/23/2015	18:28
Vinyl chloride	< 2.00	ug/L	6/23/2015	18:28

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**96.4**	82.3 - 115		6/23/2015	18:28
4-Bromofluorobenzene	**94.5**	85.5 - 111		6/23/2015	18:28
Pentafluorobenzene	**101**	91.2 - 107		6/23/2015	18:28
Toluene-D8	**92.4**	90.9 - 108		6/23/2015	18:28

Method Reference(s): EPA 8260C
EPA 5030
Data File: x23981.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-CS1-061715
Lab Sample ID: 152487-14 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		6/23/2015 12:06

Method Reference(s): EPA 245.1
Preparation Date: 6/22/2015
Data File: Hg150623A

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.00500	mg/L		6/24/2015 11:49
Barium	< 0.0500	mg/L		6/24/2015 11:49
Cadmium	< 0.00250	mg/L		6/24/2015 11:49
Chromium	< 0.00500	mg/L		6/24/2015 11:49
Lead	< 0.00500	mg/L		6/24/2015 11:49
Selenium	< 0.00500	mg/L		6/24/2015 11:49
Silver	< 0.00500	mg/L		6/24/2015 11:49

Method Reference(s): EPA 200.7
Preparation Date: 6/23/2015
Data File: 062415a

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 1.00	ug/L		6/23/2015 07:47
PCB-1221	< 1.00	ug/L		6/23/2015 07:47
PCB-1232	< 1.00	ug/L		6/23/2015 07:47
PCB-1242	< 1.00	ug/L		6/23/2015 07:47
PCB-1248	< 1.00	ug/L		6/23/2015 07:47
PCB-1254	< 1.00	ug/L		6/23/2015 07:47
PCB-1260	< 1.00	ug/L		6/23/2015 07:47
PCB-1262	< 1.00	ug/L		6/23/2015 07:47
PCB-1268	< 1.00	ug/L		6/23/2015 07:47

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Friday, June 26, 2015

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-CS1-061715
Lab Sample ID: 152487-14 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**72.4**	28.7 - 139		6/23/2015 07:47
Tetrachloro-m-xylene	**55.1**	0 - 110		6/23/2015 07:47

Method Reference(s): EPA 8082A
EPA 3510C
Preparation Date: 6/22/2015

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		6/23/2015 20:11
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		6/23/2015 20:11
1,2,4-Trichlorobenzene	< 10.0	ug/L		6/23/2015 20:11
1,2-Dichlorobenzene	< 10.0	ug/L		6/23/2015 20:11
1,3-Dichlorobenzene	< 10.0	ug/L		6/23/2015 20:11
1,4-Dichlorobenzene	< 10.0	ug/L		6/23/2015 20:11
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		6/23/2015 20:11
2,4,5-Trichlorophenol	< 20.0	ug/L		6/23/2015 20:11
2,4,6-Trichlorophenol	< 10.0	ug/L		6/23/2015 20:11
2,4-Dichlorophenol	< 10.0	ug/L		6/23/2015 20:11
2,4-Dimethylphenol	< 10.0	ug/L		6/23/2015 20:11
2,4-Dinitrophenol	< 20.0	ug/L		6/23/2015 20:11
2,4-Dinitrotoluene	< 10.0	ug/L		6/23/2015 20:11
2,6-Dinitrotoluene	< 10.0	ug/L		6/23/2015 20:11
2-Chloronaphthalene	< 10.0	ug/L		6/23/2015 20:11
2-Chlorophenol	< 10.0	ug/L		6/23/2015 20:11
2-Methylnapthalene	< 10.0	ug/L		6/23/2015 20:11
2-Methylphenol	< 10.0	ug/L		6/23/2015 20:11
2-Nitroaniline	< 20.0	ug/L		6/23/2015 20:11
2-Nitrophenol	< 10.0	ug/L		6/23/2015 20:11
3&4-Methylphenol	< 10.0	ug/L		6/23/2015 20:11
3,3'-Dichlorobenzidine	< 10.0	ug/L		6/23/2015 20:11
3-Nitroaniline	< 20.0	ug/L		6/23/2015 20:11
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		6/23/2015 20:11

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-CS1-061715		
Lab Sample ID:	152487-14	**Date Sampled:**	6/17/2015
Matrix:	Wastewater	**Date Received:**	6/18/2015

4-Bromophenyl phenyl ether	< 10.0	ug/L	6/23/2015	20:11
4-Chloro-3-methylphenol	< 10.0	ug/L	6/23/2015	20:11
4-Chloroaniline	< 10.0	ug/L	6/23/2015	20:11
4-Chlorophenyl phenyl ether	< 10.0	ug/L	6/23/2015	20:11
4-Nitroaniline	< 20.0	ug/L	6/23/2015	20:11
4-Nitrophenol	< 20.0	ug/L	6/23/2015	20:11
Acenaphthene	< 10.0	ug/L	6/23/2015	20:11
Acenaphthylene	< 10.0	ug/L	6/23/2015	20:11
Acetophenone	< 10.0	ug/L	6/23/2015	20:11
Anthracene	< 10.0	ug/L	6/23/2015	20:11
Atrazine	< 10.0	ug/L	6/23/2015	20:11
Benzaldehyde	< 10.0	ug/L	6/23/2015	20:11
Benzo (a) anthracene	< 10.0	ug/L	6/23/2015	20:11
Benzo (a) pyrene	< 10.0	ug/L	6/23/2015	20:11
Benzo (b) fluoranthene	< 10.0	ug/L	6/23/2015	20:11
Benzo (g,h,i) perylene	< 10.0	ug/L	6/23/2015	20:11
Benzo (k) fluoranthene	< 10.0	ug/L	6/23/2015	20:11
Bis (2-chloroethoxy) methane	< 10.0	ug/L	6/23/2015	20:11
Bis (2-chloroethyl) ether	< 10.0	ug/L	6/23/2015	20:11
Bis (2-chloroisopropyl) ether	< 10.0	ug/L	6/23/2015	20:11
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	6/23/2015	20:11
Butylbenzylphthalate	< 10.0	ug/L	6/23/2015	20:11
Caprolactam	< 10.0	ug/L	6/23/2015	20:11
Carbazole	< 10.0	ug/L	6/23/2015	20:11
Chrysene	< 10.0	ug/L	6/23/2015	20:11
Dibenz (a,h) anthracene	< 10.0	ug/L	6/23/2015	20:11
Dibenzofuran	< 10.0	ug/L	6/23/2015	20:11
Diethyl phthalate	< 10.0	ug/L	6/23/2015	20:11
Dimethyl phthalate	< 20.0	ug/L	6/23/2015	20:11
Di-n-butyl phthalate	< 10.0	ug/L	6/23/2015	20:11
Di-n-octylphthalate	< 10.0	ug/L	6/23/2015	20:11
Fluoranthene	< 10.0	ug/L	6/23/2015	20:11

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-CS1-061715
Lab Sample ID: 152487-14 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Fluorene	< 10.0	ug/L		6/23/2015 20:11
Hexachlorobenzene	< 10.0	ug/L		6/23/2015 20:11
Hexachlorobutadiene	< 10.0	ug/L		6/23/2015 20:11
Hexachlorocyclopentadiene	< 10.0	ug/L		6/23/2015 20:11
Hexachloroethane	< 10.0	ug/L		6/23/2015 20:11
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L		6/23/2015 20:11
Isophorone	< 10.0	ug/L		6/23/2015 20:11
Naphthalene	< 10.0	ug/L		6/23/2015 20:11
Nitrobenzene	< 10.0	ug/L		6/23/2015 20:11
N-Nitroso-di-n-propylamine	< 10.0	ug/L		6/23/2015 20:11
N-Nitrosodiphenylamine	< 10.0	ug/L		6/23/2015 20:11
Pentachlorophenol	< 20.0	ug/L		6/23/2015 20:11
Phenanthrene	< 10.0	ug/L		6/23/2015 20:11
Phenol	< 10.0	ug/L		6/23/2015 20:11
Pyrene	< 10.0	ug/L		6/23/2015 20:11

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**89.4**	27.2 - 132		6/23/2015 20:11
2-Fluorobiphenyl	**75.2**	20.2 - 94.7		6/23/2015 20:11
2-Fluorophenol	**54.4**	5.5 - 92.9		6/23/2015 20:11
Nitrobenzene-d5	**73.9**	44.4 - 95.7		6/23/2015 20:11
Phenol-d5	**42.2**	0 - 90.8		6/23/2015 20:11
Terphenyl-d14	**79.7**	55.1 - 112		6/23/2015 20:11

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 6/19/2015
Data File: B05975.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		6/23/2015 18:51
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		6/23/2015 18:51
1,1,2-Trichloroethane	< 2.00	ug/L		6/23/2015 18:51
1,1-Dichloroethane	< 2.00	ug/L		6/23/2015 18:51

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-CS1-061715		
Lab Sample ID:	152487-14	**Date Sampled:**	6/17/2015
Matrix:	Wastewater	**Date Received:**	6/18/2015

1,1-Dichloroethene	< 2.00	ug/L	6/23/2015	18:51
1,2,3-Trichlorobenzene	< 5.00	ug/L	6/23/2015	18:51
1,2,4-Trichlorobenzene	< 5.00	ug/L	6/23/2015	18:51
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	6/23/2015	18:51
1,2-Dibromoethane	< 2.00	ug/L	6/23/2015	18:51
1,2-Dichlorobenzene	< 2.00	ug/L	6/23/2015	18:51
1,2-Dichloroethane	< 2.00	ug/L	6/23/2015	18:51
1,2-Dichloropropane	< 2.00	ug/L	6/23/2015	18:51
1,3-Dichlorobenzene	< 2.00	ug/L	6/23/2015	18:51
1,4-Dichlorobenzene	< 2.00	ug/L	6/23/2015	18:51
1,4-dioxane	< 20.0	ug/L	6/23/2015	18:51
2-Butanone	< 10.0	ug/L	6/23/2015	18:51
2-Hexanone	< 5.00	ug/L	6/23/2015	18:51
4-Methyl-2-pentanone	< 5.00	ug/L	6/23/2015	18:51
Acetone	< 10.0	ug/L	6/23/2015	18:51
Benzene	< 1.00	ug/L	6/23/2015	18:51
Bromochloromethane	< 5.00	ug/L	6/23/2015	18:51
Bromodichloromethane	< 2.00	ug/L	6/23/2015	18:51
Bromoform	< 5.00	ug/L	6/23/2015	18:51
Bromomethane	< 2.00	ug/L	6/23/2015	18:51
Carbon disulfide	< 2.00	ug/L	6/23/2015	18:51
Carbon Tetrachloride	< 2.00	ug/L	6/23/2015	18:51
Chlorobenzene	< 2.00	ug/L	6/23/2015	18:51
Chloroethane	< 2.00	ug/L	6/23/2015	18:51
Chloroform	< 2.00	ug/L	6/23/2015	18:51
Chloromethane	< 2.00	ug/L	6/23/2015	18:51
cis-1,2-Dichloroethene	< 2.00	ug/L	6/23/2015	18:51
cis-1,3-Dichloropropene	< 2.00	ug/L	6/23/2015	18:51
Cyclohexane	< 10.0	ug/L	6/23/2015	18:51
Dibromochloromethane	< 2.00	ug/L	6/23/2015	18:51
Dichlorodifluoromethane	< 2.00	ug/L	6/23/2015	18:51
Ethylbenzene	< 2.00	ug/L	6/23/2015	18:51

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-CS1-061715
Lab Sample ID: 152487-14 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Freon 113	< 2.00	ug/L		6/23/2015 18:51
Isopropylbenzene	< 2.00	ug/L		6/23/2015 18:51
m,p-Xylene	< 2.00	ug/L		6/23/2015 18:51
Methyl acetate	< 2.00	ug/L		6/23/2015 18:51
Methyl tert-butyl Ether	< 2.00	ug/L		6/23/2015 18:51
Methylcyclohexane	< 2.00	ug/L		6/23/2015 18:51
Methylene chloride	< 5.00	ug/L		6/23/2015 18:51
o-Xylene	< 2.00	ug/L		6/23/2015 18:51
Styrene	< 5.00	ug/L		6/23/2015 18:51
Tetrachloroethene	< 2.00	ug/L		6/23/2015 18:51
Toluene	< 2.00	ug/L		6/23/2015 18:51
trans-1,2-Dichloroethene	< 2.00	ug/L		6/23/2015 18:51
trans-1,3-Dichloropropene	< 2.00	ug/L		6/23/2015 18:51
Trichloroethene	< 2.00	ug/L		6/23/2015 18:51
Trichlorofluoromethane	< 2.00	ug/L		6/23/2015 18:51
Vinyl chloride	< 2.00	ug/L		6/23/2015 18:51

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**98.1**	82.3 - 115		6/23/2015 18:51
4-Bromofluorobenzene	**90.5**	85.5 - 111		6/23/2015 18:51
Pentafluorobenzene	**101**	91.2 - 107		6/23/2015 18:51
Toluene-D8	**91.1**	90.9 - 108		6/23/2015 18:51

Method Reference(s): EPA 8260C
EPA 5030
Data File: x23982.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-CWFloor-061715		
Lab Sample ID:	152487-15	**Date Sampled:**	6/17/2015
Matrix:	Solid	**Date Received:**	6/18/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.00711**	mg/Kg		6/23/2015 15:12

Method Reference(s): EPA 7471B
Preparation Date: 6/23/2015
Data File: Hg150623B

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**5.08**	mg/Kg		6/23/2015 18:54
Barium	**46.9**	mg/Kg		6/23/2015 18:54
Cadmium	**0.875**	mg/Kg		6/23/2015 18:54
Chromium	**27.3**	mg/Kg		6/23/2015 18:54
Lead	**41.4**	mg/Kg		6/23/2015 18:54
Selenium	**1.97**	mg/Kg		6/24/2015 18:41
Silver	**2.61**	mg/Kg		6/23/2015 18:54

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 6/23/2015
Data File: 062315b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.359	mg/Kg		6/22/2015 21:16
PCB-1221	< 0.359	mg/Kg		6/22/2015 21:16
PCB-1232	< 0.359	mg/Kg		6/22/2015 21:16
PCB-1242	< 0.359	mg/Kg		6/22/2015 21:16
PCB-1248	< 0.359	mg/Kg		6/22/2015 21:16
PCB-1254	**1.42**	mg/Kg		6/22/2015 21:16
PCB-1260	< 0.359	mg/Kg		6/22/2015 21:16
PCB-1262	< 0.359	mg/Kg		6/22/2015 21:16
PCB-1268	< 0.359	mg/Kg		6/22/2015 21:16

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Report Prepared Friday, June 26, 2015

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-CWFloor-061715

Lab Sample ID: 152487-15 **Date Sampled:** 6/17/2015

Matrix: Solid **Date Received:** 6/18/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**89.4**	30.5 - 159		6/22/2015 21:16
Tetrachloro-m-xylene	**57.4**	23.2 - 144		6/22/2015 21:16

Method Reference(s): EPA 8082A
EPA 3550C

Preparation Date: 6/22/2015

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 231000	ug/Kg		6/26/2015 01:21
1,2,4,5-Tetrachlorobenzene	< 231000	ug/Kg		6/26/2015 01:21
1,2,4-Trichlorobenzene	< 231000	ug/Kg		6/26/2015 01:21
1,2-Dichlorobenzene	< 231000	ug/Kg		6/26/2015 01:21
1,3-Dichlorobenzene	< 231000	ug/Kg		6/26/2015 01:21
1,4-Dichlorobenzene	< 231000	ug/Kg		6/26/2015 01:21
2,3,4,6-Tetrachlorophenol	< 231000	ug/Kg		6/26/2015 01:21
2,4,5-Trichlorophenol	< 463000	ug/Kg		6/26/2015 01:21
2,4,6-Trichlorophenol	< 231000	ug/Kg		6/26/2015 01:21
2,4-Dichlorophenol	< 231000	ug/Kg		6/26/2015 01:21
2,4-Dimethylphenol	< 231000	ug/Kg		6/26/2015 01:21
2,4-Dinitrophenol	< 463000	ug/Kg		6/26/2015 01:21
2,4-Dinitrotoluene	< 231000	ug/Kg		6/26/2015 01:21
2,6-Dinitrotoluene	< 231000	ug/Kg		6/26/2015 01:21
2-Chloronaphthalene	< 231000	ug/Kg		6/26/2015 01:21
2-Chlorophenol	< 231000	ug/Kg		6/26/2015 01:21
2-Methylnapthalene	< 231000	ug/Kg		6/26/2015 01:21
2-Methylphenol	< 231000	ug/Kg		6/26/2015 01:21
2-Nitroaniline	< 463000	ug/Kg		6/26/2015 01:21
2-Nitrophenol	< 231000	ug/Kg		6/26/2015 01:21
3&4-Methylphenol	< 231000	ug/Kg		6/26/2015 01:21
3,3'-Dichlorobenzidine	< 231000	ug/Kg		6/26/2015 01:21
3-Nitroaniline	< 463000	ug/Kg		6/26/2015 01:21
4,6-Dinitro-2-methylphenol	< 463000	ug/Kg		6/26/2015 01:21

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-CWFloor-061715		
Lab Sample ID:	152487-15	**Date Sampled:**	6/17/2015
Matrix:	Solid	**Date Received:**	6/18/2015

4-Bromophenyl phenyl ether	< 231000	ug/Kg	6/26/2015	01:21
4-Chloro-3-methylphenol	< 231000	ug/Kg	6/26/2015	01:21
4-Chloroaniline	< 231000	ug/Kg	6/26/2015	01:21
4-Chlorophenyl phenyl ether	< 231000	ug/Kg	6/26/2015	01:21
4-Nitroaniline	< 463000	ug/Kg	6/26/2015	01:21
4-Nitrophenol	< 463000	ug/Kg	6/26/2015	01:21
Acenaphthene	< 231000	ug/Kg	6/26/2015	01:21
Acenaphthylene	< 231000	ug/Kg	6/26/2015	01:21
Acetophenone	< 231000	ug/Kg	6/26/2015	01:21
Anthracene	**297000**	ug/Kg	6/26/2015	01:21
Atrazine	< 231000	ug/Kg	6/26/2015	01:21
Benzaldehyde	< 231000	ug/Kg	6/26/2015	01:21
Benzo (a) anthracene	**374000**	ug/Kg	6/26/2015	01:21
Benzo (a) pyrene	**233000**	ug/Kg	6/26/2015	01:21
Benzo (b) fluoranthene	**290000**	ug/Kg	6/26/2015	01:21
Benzo (g,h,i) perylene	< 231000	ug/Kg	6/26/2015	01:21
Benzo (k) fluoranthene	< 231000	ug/Kg	6/26/2015	01:21
Bis (2-chloroethoxy) methane	< 231000	ug/Kg	6/26/2015	01:21
Bis (2-chloroethyl) ether	< 231000	ug/Kg	6/26/2015	01:21
Bis (2-chloroisopropyl) ether	< 231000	ug/Kg	6/26/2015	01:21
Bis (2-ethylhexyl) phthalate	< 231000	ug/Kg	6/26/2015	01:21
Butylbenzylphthalate	< 231000	ug/Kg	6/26/2015	01:21
Caprolactam	< 231000	ug/Kg	6/26/2015	01:21
Carbazole	< 231000	ug/Kg	6/26/2015	01:21
Chrysene	**405000**	ug/Kg	6/26/2015	01:21
Dibenz (a,h) anthracene	< 231000	ug/Kg	6/26/2015	01:21
Dibenzofuran	< 231000	ug/Kg	6/26/2015	01:21
Diethyl phthalate	< 231000	ug/Kg	6/26/2015	01:21
Dimethyl phthalate	< 463000	ug/Kg	6/26/2015	01:21
Di-n-butyl phthalate	< 231000	ug/Kg	6/26/2015	01:21
Di-n-octylphthalate	< 231000	ug/Kg	6/26/2015	01:21
Fluoranthene	**1470000**	ug/Kg	6/26/2015	01:21

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-CWFloor-061715
Lab Sample ID: 152487-15 **Date Sampled:** 6/17/2015
Matrix: Solid **Date Received:** 6/18/2015

Fluorene	< 231000	ug/Kg	6/26/2015	01:21
Hexachlorobenzene	< 231000	ug/Kg	6/26/2015	01:21
Hexachlorobutadiene	< 231000	ug/Kg	6/26/2015	01:21
Hexachlorocyclopentadiene	< 231000	ug/Kg	6/26/2015	01:21
Hexachloroethane	< 231000	ug/Kg	6/26/2015	01:21
Indeno (1,2,3-cd) pyrene	< 231000	ug/Kg	6/26/2015	01:21
Isophorone	< 231000	ug/Kg	6/26/2015	01:21
Naphthalene	< 231000	ug/Kg	6/26/2015	01:21
Nitrobenzene	< 231000	ug/Kg	6/26/2015	01:21
N-Nitroso-di-n-propylamine	< 231000	ug/Kg	6/26/2015	01:21
N-Nitrosodiphenylamine	< 231000	ug/Kg	6/26/2015	01:21
Pentachlorophenol	< 463000	ug/Kg	6/26/2015	01:21
Phenanthrene	**1650000**	ug/Kg	6/26/2015	01:21
Phenol	< 231000	ug/Kg	6/26/2015	01:21
Pyrene	**1050000**	ug/Kg	6/26/2015	01:21

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	NC	41.6 - 115		6/26/2015	01:21
2-Fluorobiphenyl	NC	35.9 - 103		6/26/2015	01:21
2-Fluorophenol	NC	39.9 - 87.9		6/26/2015	01:21
Nitrobenzene-d5	NC	37.2 - 90.6		6/26/2015	01:21
Phenol-d5	NC	42.3 - 90.6		6/26/2015	01:21
Terphenyl-d14	NC	58.2 - 113		6/26/2015	01:21

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 6/22/2015
Data File: B06050.D

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Report Prepared Friday, June 26, 2015

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-CP1-061715		
Lab Sample ID:	152487-16	**Date Sampled:**	6/17/2015
Matrix:	Wastewater	**Date Received:**	6/18/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		6/23/2015 12:10

Method Reference(s): EPA 245.1
Preparation Date: 6/22/2015
Data File: Hg150623A

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.00500	mg/L		6/24/2015 11:54
Barium	< 0.0500	mg/L		6/24/2015 11:54
Cadmium	< 0.00250	mg/L		6/24/2015 11:54
Chromium	**0.00977**	mg/L		6/24/2015 11:54
Lead	**0.0183**	mg/L		6/24/2015 11:54
Selenium	< 0.00500	mg/L		6/24/2015 18:08
Silver	< 0.00500	mg/L		6/24/2015 11:54

Method Reference(s): EPA 200.7
Preparation Date: 6/23/2015
Data File: 062415a

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 1.00	ug/L		6/23/2015 08:11
PCB-1221	< 1.00	ug/L		6/23/2015 08:11
PCB-1232	< 1.00	ug/L		6/23/2015 08:11
PCB-1242	< 1.00	ug/L		6/23/2015 08:11
PCB-1248	< 1.00	ug/L		6/23/2015 08:11
PCB-1254	< 1.00	ug/L		6/23/2015 08:11
PCB-1260	< 1.00	ug/L		6/23/2015 08:11
PCB-1262	< 1.00	ug/L		6/23/2015 08:11
PCB-1268	< 1.00	ug/L		6/23/2015 08:11

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-CP1-061715
Lab Sample ID: 152487-16 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**68.1**	28.7 - 139		6/23/2015 08:11
Tetrachloro-m-xylene	**53.3**	0 - 110		6/23/2015 08:11

Method Reference(s): EPA 8082A
EPA 3510C
Preparation Date: 6/22/2015

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		6/23/2015 20:40
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		6/23/2015 20:40
1,2,4-Trichlorobenzene	< 10.0	ug/L		6/23/2015 20:40
1,2-Dichlorobenzene	< 10.0	ug/L		6/23/2015 20:40
1,3-Dichlorobenzene	< 10.0	ug/L		6/23/2015 20:40
1,4-Dichlorobenzene	< 10.0	ug/L		6/23/2015 20:40
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		6/23/2015 20:40
2,4,5-Trichlorophenol	< 20.0	ug/L		6/23/2015 20:40
2,4,6-Trichlorophenol	< 10.0	ug/L		6/23/2015 20:40
2,4-Dichlorophenol	< 10.0	ug/L		6/23/2015 20:40
2,4-Dimethylphenol	< 10.0	ug/L		6/23/2015 20:40
2,4-Dinitrophenol	< 20.0	ug/L		6/23/2015 20:40
2,4-Dinitrotoluene	< 10.0	ug/L		6/23/2015 20:40
2,6-Dinitrotoluene	< 10.0	ug/L		6/23/2015 20:40
2-Chloronaphthalene	< 10.0	ug/L		6/23/2015 20:40
2-Chlorophenol	< 10.0	ug/L		6/23/2015 20:40
2-Methylnapthalene	< 10.0	ug/L		6/23/2015 20:40
2-Methylphenol	< 10.0	ug/L		6/23/2015 20:40
2-Nitroaniline	< 20.0	ug/L		6/23/2015 20:40
2-Nitrophenol	< 10.0	ug/L		6/23/2015 20:40
3&4-Methylphenol	< 10.0	ug/L		6/23/2015 20:40
3,3'-Dichlorobenzidine	< 10.0	ug/L		6/23/2015 20:40
3-Nitroaniline	< 20.0	ug/L		6/23/2015 20:40
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		6/23/2015 20:40

Sample Identifier:	NA-CP1-061715		
Lab Sample ID:	152487-16	**Date Sampled:**	6/17/2015
Matrix:	Wastewater	**Date Received:**	6/18/2015

4-Bromophenyl phenyl ether	< 10.0	ug/L	6/23/2015	20:40
4-Chloro-3-methylphenol	< 10.0	ug/L	6/23/2015	20:40
4-Chloroaniline	< 10.0	ug/L	6/23/2015	20:40
4-Chlorophenyl phenyl ether	< 10.0	ug/L	6/23/2015	20:40
4-Nitroaniline	< 20.0	ug/L	6/23/2015	20:40
4-Nitrophenol	< 20.0	ug/L	6/23/2015	20:40
Acenaphthene	< 10.0	ug/L	6/23/2015	20:40
Acenaphthylene	< 10.0	ug/L	6/23/2015	20:40
Acetophenone	< 10.0	ug/L	6/23/2015	20:40
Anthracene	< 10.0	ug/L	6/23/2015	20:40
Atrazine	< 10.0	ug/L	6/23/2015	20:40
Benzaldehyde	< 10.0	ug/L	6/23/2015	20:40
Benzo (a) anthracene	< 10.0	ug/L	6/23/2015	20:40
Benzo (a) pyrene	< 10.0	ug/L	6/23/2015	20:40
Benzo (b) fluoranthene	< 10.0	ug/L	6/23/2015	20:40
Benzo (g,h,i) perylene	< 10.0	ug/L	6/23/2015	20:40
Benzo (k) fluoranthene	< 10.0	ug/L	6/23/2015	20:40
Bis (2-chloroethoxy) methane	< 10.0	ug/L	6/23/2015	20:40
Bis (2-chloroethyl) ether	< 10.0	ug/L	6/23/2015	20:40
Bis (2-chloroisopropyl) ether	< 10.0	ug/L	6/23/2015	20:40
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	6/23/2015	20:40
Butylbenzylphthalate	< 10.0	ug/L	6/23/2015	20:40
Caprolactam	< 10.0	ug/L	6/23/2015	20:40
Carbazole	< 10.0	ug/L	6/23/2015	20:40
Chrysene	< 10.0	ug/L	6/23/2015	20:40
Dibenz (a,h) anthracene	< 10.0	ug/L	6/23/2015	20:40
Dibenzofuran	< 10.0	ug/L	6/23/2015	20:40
Diethyl phthalate	< 10.0	ug/L	6/23/2015	20:40
Dimethyl phthalate	< 20.0	ug/L	6/23/2015	20:40
Di-n-butyl phthalate	< 10.0	ug/L	6/23/2015	20:40
Di-n-octylphthalate	< 10.0	ug/L	6/23/2015	20:40
Fluoranthene	< 10.0	ug/L	6/23/2015	20:40

Sample Identifier: NA-CP1-061715
Lab Sample ID: 152487-16 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Fluorene	< 10.0	ug/L			6/23/2015 20:40
Hexachlorobenzene	< 10.0	ug/L			6/23/2015 20:40
Hexachlorobutadiene	< 10.0	ug/L			6/23/2015 20:40
Hexachlorocyclopentadiene	< 10.0	ug/L			6/23/2015 20:40
Hexachloroethane	< 10.0	ug/L			6/23/2015 20:40
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L			6/23/2015 20:40
Isophorone	< 10.0	ug/L			6/23/2015 20:40
Naphthalene	< 10.0	ug/L			6/23/2015 20:40
Nitrobenzene	< 10.0	ug/L			6/23/2015 20:40
N-Nitroso-di-n-propylamine	< 10.0	ug/L			6/23/2015 20:40
N-Nitrosodiphenylamine	< 10.0	ug/L			6/23/2015 20:40
Pentachlorophenol	< 20.0	ug/L			6/23/2015 20:40
Phenanthrene	< 10.0	ug/L			6/23/2015 20:40
Phenol	< 10.0	ug/L			6/23/2015 20:40
Pyrene	< 10.0	ug/L			6/23/2015 20:40

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**75.2**	27.2 - 132		6/23/2015 20:40
2-Fluorobiphenyl	**72.7**	20.2 - 94.7		6/23/2015 20:40
2-Fluorophenol	**41.8**	5.5 - 92.9		6/23/2015 20:40
Nitrobenzene-d5	**69.0**	44.4 - 95.7		6/23/2015 20:40
Phenol-d5	**32.7**	0 - 90.8		6/23/2015 20:40
Terphenyl-d14	**69.4**	55.1 - 112		6/23/2015 20:40

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 6/19/2015
Data File: B05976.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		6/23/2015 19:15
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		6/23/2015 19:15
1,1,2-Trichloroethane	< 2.00	ug/L		6/23/2015 19:15
1,1-Dichloroethane	< 2.00	ug/L		6/23/2015 19:15

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-CP1-061715		
Lab Sample ID:	152487-16	**Date Sampled:**	6/17/2015
Matrix:	Wastewater	**Date Received:**	6/18/2015

1,1-Dichloroethene	< 2.00	ug/L	6/23/2015	19:15
1,2,3-Trichlorobenzene	< 5.00	ug/L	6/23/2015	19:15
1,2,4-Trichlorobenzene	< 5.00	ug/L	6/23/2015	19:15
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	6/23/2015	19:15
1,2-Dibromoethane	< 2.00	ug/L	6/23/2015	19:15
1,2-Dichlorobenzene	< 2.00	ug/L	6/23/2015	19:15
1,2-Dichloroethane	< 2.00	ug/L	6/23/2015	19:15
1,2-Dichloropropane	< 2.00	ug/L	6/23/2015	19:15
1,3-Dichlorobenzene	< 2.00	ug/L	6/23/2015	19:15
1,4-Dichlorobenzene	< 2.00	ug/L	6/23/2015	19:15
1,4-dioxane	< 20.0	ug/L	6/23/2015	19:15
2-Butanone	< 10.0	ug/L	6/23/2015	19:15
2-Hexanone	< 5.00	ug/L	6/23/2015	19:15
4-Methyl-2-pentanone	< 5.00	ug/L	6/23/2015	19:15
Acetone	< 10.0	ug/L	6/23/2015	19:15
Benzene	< 1.00	ug/L	6/23/2015	19:15
Bromochloromethane	< 5.00	ug/L	6/23/2015	19:15
Bromodichloromethane	< 2.00	ug/L	6/23/2015	19:15
Bromoform	< 5.00	ug/L	6/23/2015	19:15
Bromomethane	< 2.00	ug/L	6/23/2015	19:15
Carbon disulfide	< 2.00	ug/L	6/23/2015	19:15
Carbon Tetrachloride	< 2.00	ug/L	6/23/2015	19:15
Chlorobenzene	< 2.00	ug/L	6/23/2015	19:15
Chloroethane	< 2.00	ug/L	6/23/2015	19:15
Chloroform	< 2.00	ug/L	6/23/2015	19:15
Chloromethane	< 2.00	ug/L	6/23/2015	19:15
cis-1,2-Dichloroethene	< 2.00	ug/L	6/23/2015	19:15
cis-1,3-Dichloropropene	< 2.00	ug/L	6/23/2015	19:15
Cyclohexane	< 10.0	ug/L	6/23/2015	19:15
Dibromochloromethane	< 2.00	ug/L	6/23/2015	19:15
Dichlorodifluoromethane	< 2.00	ug/L	6/23/2015	19:15
Ethylbenzene	< 2.00	ug/L	6/23/2015	19:15

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-CP1-061715
Lab Sample ID: 152487-16 **Date Sampled:** 6/17/2015
Matrix: Wastewater **Date Received:** 6/18/2015

Freon 113	< 2.00	ug/L			6/23/2015 19:15
Isopropylbenzene	< 2.00	ug/L			6/23/2015 19:15
m,p-Xylene	< 2.00	ug/L			6/23/2015 19:15
Methyl acetate	< 2.00	ug/L			6/23/2015 19:15
Methyl tert-butyl Ether	< 2.00	ug/L			6/23/2015 19:15
Methylcyclohexane	< 2.00	ug/L			6/23/2015 19:15
Methylene chloride	< 5.00	ug/L			6/23/2015 19:15
o-Xylene	< 2.00	ug/L			6/23/2015 19:15
Styrene	< 5.00	ug/L			6/23/2015 19:15
Tetrachloroethene	< 2.00	ug/L			6/23/2015 19:15
Toluene	< 2.00	ug/L			6/23/2015 19:15
trans-1,2-Dichloroethene	< 2.00	ug/L			6/23/2015 19:15
trans-1,3-Dichloropropene	< 2.00	ug/L			6/23/2015 19:15
Trichloroethene	< 2.00	ug/L			6/23/2015 19:15
Trichlorofluoromethane	< 2.00	ug/L			6/23/2015 19:15
Vinyl chloride	< 2.00	ug/L			6/23/2015 19:15

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**95.6**	82.3 - 115		6/23/2015 19:15
4-Bromofluorobenzene	**87.8**	85.5 - 111		6/23/2015 19:15
Pentafluorobenzene	**99.9**	91.2 - 107		6/23/2015 19:15
Toluene-D8	**90.6**	90.9 - 108	*	6/23/2015 19:15

Method Reference(s): EPA 8260C
EPA 5030
Data File: x23983.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-CFS1-061715		
Lab Sample ID:	152487-17	**Date Sampled:**	6/17/2015
Matrix:	Soil	**Date Received:**	6/18/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0285**	mg/Kg		6/23/2015 15:15

Method Reference(s): EPA 7471B
Preparation Date: 6/23/2015
Data File: Hg150623B

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**10.2**	mg/Kg		6/23/2015 18:59
Barium	**38.8**	mg/Kg		6/23/2015 18:59
Cadmium	**3.25**	mg/Kg		6/23/2015 18:59
Chromium	**135**	mg/Kg		6/23/2015 18:59
Lead	< 1.04	mg/Kg		6/24/2015 12:40
Selenium	< 0.520	mg/Kg		6/23/2015 18:59
Silver	**3.63**	mg/Kg		6/23/2015 18:59

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 6/23/2015
Data File: 062315b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.452	mg/Kg		6/22/2015 21:40
PCB-1221	< 0.452	mg/Kg		6/22/2015 21:40
PCB-1232	< 0.452	mg/Kg		6/22/2015 21:40
PCB-1242	< 0.452	mg/Kg		6/22/2015 21:40
PCB-1248	< 0.452	mg/Kg		6/22/2015 21:40
PCB-1254	< 0.452	mg/Kg		6/22/2015 21:40
PCB-1260	< 0.452	mg/Kg		6/22/2015 21:40
PCB-1262	< 0.452	mg/Kg		6/22/2015 21:40
PCB-1268	< 0.452	mg/Kg		6/22/2015 21:40

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-CFS1-061715
Lab Sample ID: 152487-17 **Date Sampled:** 6/17/2015
Matrix: Soil **Date Received:** 6/18/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**91.8**	30.5 - 159		6/22/2015 21:40
Tetrachloro-m-xylene	**86.2**	23.2 - 144		6/22/2015 21:40

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 6/22/2015

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 321	ug/Kg		6/23/2015 21:09
1,2,4,5-Tetrachlorobenzene	< 321	ug/Kg		6/23/2015 21:09
1,2,4-Trichlorobenzene	< 321	ug/Kg		6/23/2015 21:09
1,2-Dichlorobenzene	< 321	ug/Kg		6/23/2015 21:09
1,3-Dichlorobenzene	< 321	ug/Kg		6/23/2015 21:09
1,4-Dichlorobenzene	< 321	ug/Kg		6/23/2015 21:09
2,3,4,6-Tetrachlorophenol	< 321	ug/Kg		6/23/2015 21:09
2,4,5-Trichlorophenol	< 643	ug/Kg		6/23/2015 21:09
2,4,6-Trichlorophenol	< 321	ug/Kg		6/23/2015 21:09
2,4-Dichlorophenol	< 321	ug/Kg		6/23/2015 21:09
2,4-Dimethylphenol	< 321	ug/Kg		6/23/2015 21:09
2,4-Dinitrophenol	< 643	ug/Kg		6/23/2015 21:09
2,4-Dinitrotoluene	< 321	ug/Kg		6/23/2015 21:09
2,6-Dinitrotoluene	< 321	ug/Kg		6/23/2015 21:09
2-Chloronaphthalene	< 321	ug/Kg		6/23/2015 21:09
2-Chlorophenol	< 321	ug/Kg		6/23/2015 21:09
2-Methylnapthalene	< 321	ug/Kg		6/23/2015 21:09
2-Methylphenol	< 321	ug/Kg		6/23/2015 21:09
2-Nitroaniline	< 643	ug/Kg		6/23/2015 21:09
2-Nitrophenol	< 321	ug/Kg		6/23/2015 21:09
3&4-Methylphenol	< 321	ug/Kg		6/23/2015 21:09
3,3'-Dichlorobenzidine	< 321	ug/Kg		6/23/2015 21:09
3-Nitroaniline	< 643	ug/Kg		6/23/2015 21:09
4,6-Dinitro-2-methylphenol	< 643	ug/Kg		6/23/2015 21:09

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-CFS1-061715		
Lab Sample ID:	152487-17	**Date Sampled:**	6/17/2015
Matrix:	Soil	**Date Received:**	6/18/2015

4-Bromophenyl phenyl ether	< 321	ug/Kg	6/23/2015	21:09
4-Chloro-3-methylphenol	< 321	ug/Kg	6/23/2015	21:09
4-Chloroaniline	< 321	ug/Kg	6/23/2015	21:09
4-Chlorophenyl phenyl ether	< 321	ug/Kg	6/23/2015	21:09
4-Nitroaniline	< 643	ug/Kg	6/23/2015	21:09
4-Nitrophenol	< 643	ug/Kg	6/23/2015	21:09
Acenaphthene	< 321	ug/Kg	6/23/2015	21:09
Acenaphthylene	< 321	ug/Kg	6/23/2015	21:09
Acetophenone	< 321	ug/Kg	6/23/2015	21:09
Anthracene	< 321	ug/Kg	6/23/2015	21:09
Atrazine	< 321	ug/Kg	6/23/2015	21:09
Benzaldehyde	< 321	ug/Kg	6/23/2015	21:09
Benzo (a) anthracene	< 321	ug/Kg	6/23/2015	21:09
Benzo (a) pyrene	< 321	ug/Kg	6/23/2015	21:09
Benzo (b) fluoranthene	< 321	ug/Kg	6/23/2015	21:09
Benzo (g,h,i) perylene	< 321	ug/Kg	6/23/2015	21:09
Benzo (k) fluoranthene	< 321	ug/Kg	6/23/2015	21:09
Bis (2-chloroethoxy) methane	< 321	ug/Kg	6/23/2015	21:09
Bis (2-chloroethyl) ether	< 321	ug/Kg	6/23/2015	21:09
Bis (2-chloroisopropyl) ether	< 321	ug/Kg	6/23/2015	21:09
Bis (2-ethylhexyl) phthalate	< 321	ug/Kg	6/23/2015	21:09
Butylbenzylphthalate	< 321	ug/Kg	6/23/2015	21:09
Caprolactam	< 321	ug/Kg	6/23/2015	21:09
Carbazole	< 321	ug/Kg	6/23/2015	21:09
Chrysene	< 321	ug/Kg	6/23/2015	21:09
Dibenz (a,h) anthracene	< 321	ug/Kg	6/23/2015	21:09
Dibenzofuran	< 321	ug/Kg	6/23/2015	21:09
Diethyl phthalate	< 321	ug/Kg	6/23/2015	21:09
Dimethyl phthalate	< 643	ug/Kg	6/23/2015	21:09
Di-n-butyl phthalate	< 321	ug/Kg	6/23/2015	21:09
Di-n-octylphthalate	< 321	ug/Kg	6/23/2015	21:09
Fluoranthene	< 321	ug/Kg	6/23/2015	21:09

Sample Identifier: NA-CFS1-061715
Lab Sample ID: 152487-17 **Date Sampled:** 6/17/2015
Matrix: Soil **Date Received:** 6/18/2015

Fluorene	< 321	ug/Kg		6/23/2015 21:09
Hexachlorobenzene	< 321	ug/Kg		6/23/2015 21:09
Hexachlorobutadiene	< 321	ug/Kg		6/23/2015 21:09
Hexachlorocyclopentadiene	< 321	ug/Kg		6/23/2015 21:09
Hexachloroethane	< 321	ug/Kg		6/23/2015 21:09
Indeno (1,2,3-cd) pyrene	< 321	ug/Kg		6/23/2015 21:09
Isophorone	< 321	ug/Kg		6/23/2015 21:09
Naphthalene	< 321	ug/Kg		6/23/2015 21:09
Nitrobenzene	< 321	ug/Kg		6/23/2015 21:09
N-Nitroso-di-n-propylamine	< 321	ug/Kg		6/23/2015 21:09
N-Nitrosodiphenylamine	< 321	ug/Kg		6/23/2015 21:09
Pentachlorophenol	< 643	ug/Kg		6/23/2015 21:09
Phenanthrene	< 321	ug/Kg		6/23/2015 21:09
Phenol	< 321	ug/Kg		6/23/2015 21:09
Pyrene	< 321	ug/Kg		6/23/2015 21:09

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**75.6**	41.6 - 115		6/23/2015 21:09
2-Fluorobiphenyl	**43.2**	35.9 - 103		6/23/2015 21:09
2-Fluorophenol	**40.8**	39.9 - 87.9		6/23/2015 21:09
Nitrobenzene-d5	**38.2**	37.2 - 90.6		6/23/2015 21:09
Phenol-d5	**42.7**	42.3 - 90.6		6/23/2015 21:09
Terphenyl-d14	**78.2**	58.2 - 113		6/23/2015 21:09

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 6/22/2015
Data File: B05977.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 7.74	ug/Kg		6/22/2015 19:40
1,1,2,2-Tetrachloroethane	< 7.74	ug/Kg		6/22/2015 19:40
1,1,2-Trichloroethane	< 7.74	ug/Kg		6/22/2015 19:40
1,1-Dichloroethane	< 7.74	ug/Kg		6/22/2015 19:40

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier:	NA-CFS1-061715		
Lab Sample ID:	152487-17	**Date Sampled:**	6/17/2015
Matrix:	Soil	**Date Received:**	6/18/2015

1,1-Dichloroethene	< 7.74	ug/Kg	6/22/2015	19:40
1,2,3-Trichlorobenzene	< 19.4	ug/Kg	6/22/2015	19:40
1,2,4-Trichlorobenzene	< 19.4	ug/Kg	6/22/2015	19:40
1,2-Dibromo-3-Chloropropane	< 38.7	ug/Kg	6/22/2015	19:40
1,2-Dibromoethane	< 7.74	ug/Kg	6/22/2015	19:40
1,2-Dichlorobenzene	< 7.74	ug/Kg	6/22/2015	19:40
1,2-Dichloroethane	< 7.74	ug/Kg	6/22/2015	19:40
1,2-Dichloropropane	< 7.74	ug/Kg	6/22/2015	19:40
1,3-Dichlorobenzene	< 7.74	ug/Kg	6/22/2015	19:40
1,4-Dichlorobenzene	< 7.74	ug/Kg	6/22/2015	19:40
1,4-dioxane	< 77.4	ug/Kg	6/22/2015	19:40
2-Butanone	< 38.7	ug/Kg	6/22/2015	19:40
2-Hexanone	< 19.4	ug/Kg	6/22/2015	19:40
4-Methyl-2-pentanone	< 19.4	ug/Kg	6/22/2015	19:40
Acetone	< 38.7	ug/Kg	6/22/2015	19:40
Benzene	< 7.74	ug/Kg	6/22/2015	19:40
Bromochloromethane	< 19.4	ug/Kg	6/22/2015	19:40
Bromodichloromethane	< 7.74	ug/Kg	6/22/2015	19:40
Bromoform	< 19.4	ug/Kg	6/22/2015	19:40
Bromomethane	< 7.74	ug/Kg	6/22/2015	19:40
Carbon disulfide	< 7.74	ug/Kg	6/22/2015	19:40
Carbon Tetrachloride	< 7.74	ug/Kg	6/22/2015	19:40
Chlorobenzene	< 7.74	ug/Kg	6/22/2015	19:40
Chloroethane	< 7.74	ug/Kg	6/22/2015	19:40
Chloroform	< 7.74	ug/Kg	6/22/2015	19:40
Chloromethane	< 7.74	ug/Kg	6/22/2015	19:40
cis-1,2-Dichloroethene	< 7.74	ug/Kg	6/22/2015	19:40
cis-1,3-Dichloropropene	< 7.74	ug/Kg	6/22/2015	19:40
Cyclohexane	< 38.7	ug/Kg	6/22/2015	19:40
Dibromochloromethane	< 7.74	ug/Kg	6/22/2015	19:40
Dichlorodifluoromethane	< 7.74	ug/Kg	6/22/2015	19:40
Ethylbenzene	< 7.74	ug/Kg	6/22/2015	19:40

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152487

Client: **Fisher Associates**

Project Reference: 154034 Northland Ave Bldg's A & C

Sample Identifier: NA-CFS1-061715
Lab Sample ID: 152487-17 **Date Sampled:** 6/17/2015
Matrix: Soil **Date Received:** 6/18/2015

Freon 113	< 7.74	ug/Kg	6/22/2015	19:40
Isopropylbenzene	< 7.74	ug/Kg	6/22/2015	19:40
m,p-Xylene	< 7.74	ug/Kg	6/22/2015	19:40
Methyl acetate	< 7.74	ug/Kg	6/22/2015	19:40
Methyl tert-butyl Ether	< 7.74	ug/Kg	6/22/2015	19:40
Methylcyclohexane	< 7.74	ug/Kg	6/22/2015	19:40
Methylene chloride	< 19.4	ug/Kg	6/22/2015	19:40
o-Xylene	< 7.74	ug/Kg	6/22/2015	19:40
Styrene	< 19.4	ug/Kg	6/22/2015	19:40
Tetrachloroethene	< 7.74	ug/Kg	6/22/2015	19:40
Toluene	< 7.74	ug/Kg	6/22/2015	19:40
trans-1,2-Dichloroethene	< 7.74	ug/Kg	6/22/2015	19:40
trans-1,3-Dichloropropene	< 7.74	ug/Kg	6/22/2015	19:40
Trichloroethene	< 7.74	ug/Kg	6/22/2015	19:40
Trichlorofluoromethane	< 7.74	ug/Kg	6/22/2015	19:40
Vinyl chloride	< 7.74	ug/Kg	6/22/2015	19:40

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**88.8**	80.6 - 125		6/22/2015	19:40
4-Bromofluorobenzene	**94.7**	86.6 - 111		6/22/2015	19:40
Pentafluorobenzene	**103**	90.9 - 107		6/22/2015	19:40
Toluene-D8	**96.7**	90.8 - 109		6/22/2015	19:40

Method Reference(s): EPA 8260C
EPA 5035A
Data File: x23941.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PARADIGM ENVIRONMENTAL SERVICES, INC

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	Fisher Associates	CLIENT:	SAME	152487
ADDRESS:	135 Calkins Road	ADDRESS:		Quotation #:
CITY:	Rochester STATE: NY ZIP: 14623	CITY: STATE: ZIP:		
PHONE:	(585) 334-1310	PHONE:		Email: jmoore@fisherassoc.com
ATTN:	James A Moore	ATTN:		

PROJECT REFERENCE
154034
Northland Ave Bldg's A&C

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL VOLATILES 8260	CT, Pb, Cd, Ba	PCB's	TCL SEMIVOL 8270	PEST & METALS 3510, 13	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	6/17/15	0730		X	NA - SOUTHEAST - 061715	OL	1		X	X		X		01
2		0740		X	NA - MIDDLEEAST - 061715	OL	1		X	X		X		02
3		0750		X	NA - NORTHEAST - 061715	OL	1		X	X		X		03
4		0815		X	NA - AP6 - 061715	WW	3	X		X	X	X		04
5		0830		X	NA - AP8 - 061715	WW	3	X		X	X	X		05
6		0845		X	NA - AP9 - 061715	WW	3	X		X	X	X		06
7		0900		X	NA - AP10 - 061715	WW	3	X		X	X	X		07
8		0915		X	NA - AP11 - 061715	WW	3	X		X	X	X		08
9		0930		X	NA - AP13 - 061715	WW	3	X		X	X	X		09
10		0945		X	NA - AP14 - 061715	WW	3	X		X	X	X		10

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	
Rush 2 day		Category B			
Rush 1 day					
Other please indicate:		Other please indicate:		Other EDD please indicate:	

James A Moore	6/17/15 1300	Total Cost:
Sampled By	Date/Time	
	6/17/15 1310	
Relinquished By	Date/Time	
	6/17/15 1310	P.I.F.
Received By	Date/Time	
Molly Vail	6/18/15 1401	
Received @ Lab By	Date/Time	

5°C iced 6/18/15 10:34

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	Fisher Associates	CLIENT:	SAME	152487
ADDRESS:	135 Calkins Road	ADDRESS:		Quotation #:
CITY:	Rochester STATE: NY ZIP: 14623	CITY: STATE: ZIP:		
PHONE:	(585) 334-1310	PHONE:		Email: jmoore@fishassoc.com
ATTN:	James A. Moore	ATTN:		

PROJECT REFERENCE
154034,
Northland Ave Bldgs A&C

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL VOA's 8260	TCL SVOA's 8270	TCL Pest, Cl, Pb, Cd, Ba Fe's	TAL Semivol's 8270	RCRA Metals 3010, 13	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	6/17/15	1015	X	X	NA-AWLTF-061715	OL	1	X	X	X				1 1
2		1030	X		NA-AWTF-061715	SD	1			X	X	X		1 2
3		1115		X	NA-CP2-061715	WW	3	X		X	X	X		1 3
4		1130		X	NA-CS1-061715	WW	3	X		X	X	X		1 4
5		1145	X		NA-CWTF-061715	SD	1			X	X	X		1 5
6		1200		X	NA-CP1-061715	WW	3	X		X	X	X		1 6
7		1215		X	NA-CFS1-061715	SO	1	X		X	X	X		1 7
8														
9														
10														

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	
Rush 2 day		Category B			
Rush 1 day					
Other please indicate:		Other please indicate:		Other EDD please indicate:	

James A Moore	6/17/15 1300	Total Cost:
Sampled By	Date/Time	
	6/17/15 1310	
Relinquished By	Date/Time	
	6/17/15 1310	P.I.F.
Received By	Date/Time	
	6/18/15 1401	
Received @ Lab By	Date/Time	

PARADIGM

Chain of Custody Supplement

Client: Fisher Assoc. Completed by: Dolf Caid

Lab Project ID: 152487 Date: 6/18/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X		
Comments			
Preservation	X met, VOA		
Comments	added 2ml NAOH to pH<2, held for 24 hrs (C473940)		
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		X met
Comments	5°C iced 6/18/15 1035		
Sufficient Sample Quantity	X		
Comments			

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Fisher Associates

For Lab Project ID

152517

Referencing

Northland Ave. Site 154034

Prepared

Tuesday, June 30, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

KRHansen

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-ASB5 (4-8')
Lab Sample ID: 152517-01 **Date Sampled:** 6/18/2015
Matrix: Soil **Date Received:** 6/19/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0204**	mg/Kg		6/23/2015 15:19

Method Reference(s): EPA 7471B
Preparation Date: 6/23/2015
Data File: Hg150623B

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**4.48**	mg/Kg		6/23/2015 19:22
Barium	**24.5**	mg/Kg		6/23/2015 19:22
Cadmium	< 0.279	mg/Kg		6/23/2015 19:22
Chromium	**5.02**	mg/Kg		6/23/2015 19:22
Lead	**10.4**	mg/Kg		6/23/2015 19:22
Selenium	**0.642**	mg/Kg		6/24/2015 18:17
Silver	< 0.558	mg/Kg		6/23/2015 19:22

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 6/23/2015
Data File: 062315b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0303	mg/Kg		6/30/2015 02:20
PCB-1221	< 0.0303	mg/Kg		6/30/2015 02:20
PCB-1232	< 0.0303	mg/Kg		6/30/2015 02:20
PCB-1242	< 0.0303	mg/Kg		6/30/2015 02:20
PCB-1248	< 0.0303	mg/Kg		6/30/2015 02:20
PCB-1254	< 0.0303	mg/Kg		6/30/2015 02:20
PCB-1260	< 0.0303	mg/Kg		6/30/2015 02:20
PCB-1262	< 0.0303	mg/Kg		6/30/2015 02:20
PCB-1268	< 0.0303	mg/Kg		6/30/2015 02:20

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-ASB5 (4-8')
Lab Sample ID: 152517-01 **Date Sampled:** 6/18/2015
Matrix: Soil **Date Received:** 6/19/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**35.3**	30.5 - 159		6/30/2015 02:20
Tetrachloro-m-xylene	**28.2**	23.2 - 144		6/30/2015 02:20

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 6/25/2015

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	**8.81**	ug/Kg		6/25/2015 19:08
4,4-DDE	< 3.03	ug/Kg		6/25/2015 19:08
4,4-DDT	< 3.03	ug/Kg		6/25/2015 19:08
Aldrin	**14.4**	ug/Kg	P	6/25/2015 19:08
alpha-BHC	< 3.03	ug/Kg		6/25/2015 19:08
beta-BHC	< 3.03	ug/Kg		6/25/2015 19:08
cis-Chlordane	**4.14**	ug/Kg	P	6/25/2015 19:08
delta-BHC	< 3.03	ug/Kg		6/25/2015 19:08
Dieldrin	< 3.03	ug/Kg		6/25/2015 19:08
Endosulfan I	**3.13**	ug/Kg	P	6/25/2015 19:08
Endosulfan II	< 3.03	ug/Kg		6/25/2015 19:08
Endosulfan Sulfate	**3.71**	ug/Kg	P	6/25/2015 19:08
Endrin	< 3.03	ug/Kg		6/25/2015 19:08
Endrin Aldehyde	< 3.03	ug/Kg		6/25/2015 19:08
Endrin Ketone	**9.05**	ug/Kg		6/25/2015 19:08
gamma-BHC (Lindane)	< 3.03	ug/Kg		6/25/2015 19:08
Heptachlor	< 3.03	ug/Kg		6/25/2015 19:08
Heptachlor Epoxide	**10.5**	ug/Kg		6/25/2015 19:08
Methoxychlor	**9.84**	ug/Kg	P	6/25/2015 19:08
Toxaphene	< 30.3	ug/Kg		6/25/2015 19:08
trans-Chlordane	**10.2**	ug/Kg	P	6/25/2015 19:08

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-ASB5 (4-8')

Lab Sample ID: 152517-01 **Date Sampled:** 6/18/2015

Matrix: Soil **Date Received:** 6/19/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**63.8**	32.1 - 117.1		6/25/2015 19:08
Tetrachloro-m-xylene (1)	**47.8**	28.3 - 115.3		6/25/2015 19:08

Method Reference(s): EPA 8081B
EPA 3550C

Preparation Date: 6/25/2015

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 3060	ug/Kg		6/26/2015 03:16
1,2,4,5-Tetrachlorobenzene	< 3060	ug/Kg		6/26/2015 03:16
1,2,4-Trichlorobenzene	< 3060	ug/Kg		6/26/2015 03:16
1,2-Dichlorobenzene	< 3060	ug/Kg		6/26/2015 03:16
1,3-Dichlorobenzene	< 3060	ug/Kg		6/26/2015 03:16
1,4-Dichlorobenzene	< 3060	ug/Kg		6/26/2015 03:16
2,3,4,6-Tetrachlorophenol	< 3060	ug/Kg		6/26/2015 03:16
2,4,5-Trichlorophenol	< 6120	ug/Kg		6/26/2015 03:16
2,4,6-Trichlorophenol	< 3060	ug/Kg		6/26/2015 03:16
2,4-Dichlorophenol	< 3060	ug/Kg		6/26/2015 03:16
2,4-Dimethylphenol	< 3060	ug/Kg		6/26/2015 03:16
2,4-Dinitrophenol	< 6120	ug/Kg		6/26/2015 03:16
2,4-Dinitrotoluene	< 3060	ug/Kg		6/26/2015 03:16
2,6-Dinitrotoluene	< 3060	ug/Kg		6/26/2015 03:16
2-Chloronaphthalene	< 3060	ug/Kg		6/26/2015 03:16
2-Chlorophenol	< 3060	ug/Kg		6/26/2015 03:16
2-Methylnapthalene	**37700**	ug/Kg		6/26/2015 03:16
2-Methylphenol	< 3060	ug/Kg		6/26/2015 03:16
2-Nitroaniline	< 6120	ug/Kg		6/26/2015 03:16
2-Nitrophenol	< 3060	ug/Kg		6/26/2015 03:16
3&4-Methylphenol	< 3060	ug/Kg		6/26/2015 03:16
3,3'-Dichlorobenzidine	< 3060	ug/Kg		6/26/2015 03:16
3-Nitroaniline	< 6120	ug/Kg		6/26/2015 03:16
4,6-Dinitro-2-methylphenol	< 6120	ug/Kg		6/26/2015 03:16

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-ASB5 (4-8')
Lab Sample ID: 152517-01 **Date Sampled:** 6/18/2015
Matrix: Soil **Date Received:** 6/19/2015

4-Bromophenyl phenyl ether	< 3060	ug/Kg	6/26/2015	03:16
4-Chloro-3-methylphenol	< 3060	ug/Kg	6/26/2015	03:16
4-Chloroaniline	< 3060	ug/Kg	6/26/2015	03:16
4-Chlorophenyl phenyl ether	< 3060	ug/Kg	6/26/2015	03:16
4-Nitroaniline	< 6120	ug/Kg	6/26/2015	03:16
4-Nitrophenol	< 6120	ug/Kg	6/26/2015	03:16
Acenaphthene	**4920**	ug/Kg	6/26/2015	03:16
Acenaphthylene	< 3060	ug/Kg	6/26/2015	03:16
Acetophenone	< 3060	ug/Kg	6/26/2015	03:16
Anthracene	**4960**	ug/Kg	6/26/2015	03:16
Atrazine	< 3060	ug/Kg	6/26/2015	03:16
Benzaldehyde	< 3060	ug/Kg	6/26/2015	03:16
Benzo (a) anthracene	**5180**	ug/Kg	6/26/2015	03:16
Benzo (a) pyrene	**9210**	ug/Kg	6/26/2015	03:16
Benzo (b) fluoranthene	**8410**	ug/Kg	6/26/2015	03:16
Benzo (g,h,i) perylene	**5700**	ug/Kg	6/26/2015	03:16
Benzo (k) fluoranthene	**4330**	ug/Kg	6/26/2015	03:16
Bis (2-chloroethoxy) methane	< 3060	ug/Kg	6/26/2015	03:16
Bis (2-chloroethyl) ether	< 3060	ug/Kg	6/26/2015	03:16
Bis (2-chloroisopropyl) ether	< 3060	ug/Kg	6/26/2015	03:16
Bis (2-ethylhexyl) phthalate	< 3060	ug/Kg	6/26/2015	03:16
Butylbenzylphthalate	< 3060	ug/Kg	6/26/2015	03:16
Caprolactam	< 3060	ug/Kg	6/26/2015	03:16
Carbazole	< 3060	ug/Kg	6/26/2015	03:16
Chrysene	**6370**	ug/Kg	6/26/2015	03:16
Dibenz (a,h) anthracene	< 3060	ug/Kg	6/26/2015	03:16
Dibenzofuran	**3400**	ug/Kg	6/26/2015	03:16
Diethyl phthalate	< 3060	ug/Kg	6/26/2015	03:16
Dimethyl phthalate	< 6120	ug/Kg	6/26/2015	03:16
Di-n-butyl phthalate	< 3060	ug/Kg	6/26/2015	03:16
Di-n-octylphthalate	< 3060	ug/Kg	6/26/2015	03:16
Fluoranthene	**7400**	ug/Kg	6/26/2015	03:16

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-ASB5 (4-8')
Lab Sample ID: 152517-01 **Date Sampled:** 6/18/2015
Matrix: Soil **Date Received:** 6/19/2015

Fluorene	**5350**	ug/Kg	6/26/2015	03:16
Hexachlorobenzene	< 3060	ug/Kg	6/26/2015	03:16
Hexachlorobutadiene	< 3060	ug/Kg	6/26/2015	03:16
Hexachlorocyclopentadiene	< 3060	ug/Kg	6/26/2015	03:16
Hexachloroethane	< 3060	ug/Kg	6/26/2015	03:16
Indeno (1,2,3-cd) pyrene	**8740**	ug/Kg	6/26/2015	03:16
Isophorone	< 3060	ug/Kg	6/26/2015	03:16
Naphthalene	**4650**	ug/Kg	6/26/2015	03:16
Nitrobenzene	< 3060	ug/Kg	6/26/2015	03:16
N-Nitroso-di-n-propylamine	< 3060	ug/Kg	6/26/2015	03:16
N-Nitrosodiphenylamine	**3620**	ug/Kg	6/26/2015	03:16
Pentachlorophenol	< 6120	ug/Kg	6/26/2015	03:16
Phenanthrene	**23200**	ug/Kg	6/26/2015	03:16
Phenol	< 3060	ug/Kg	6/26/2015	03:16
Pyrene	**10700**	ug/Kg	6/26/2015	03:16

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**NC**	41.6 - 115		6/26/2015	03:16
2-Fluorobiphenyl	**NC**	35.9 - 103		6/26/2015	03:16
2-Fluorophenol	**NC**	39.9 - 87.9		6/26/2015	03:16
Nitrobenzene-d5	**NC**	37.2 - 90.6		6/26/2015	03:16
Phenol-d5	**NC**	42.3 - 90.6		6/26/2015	03:16
Terphenyl-d14	**NC**	58.2 - 113		6/26/2015	03:16

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 6/25/2015
Data File: B06054.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 188	ug/Kg		6/25/2015	08:31
1,1,2,2-Tetrachloroethane	< 188	ug/Kg		6/25/2015	08:31
1,1,2-Trichloroethane	< 188	ug/Kg		6/25/2015	08:31
1,1-Dichloroethane	< 188	ug/Kg		6/25/2015	08:31

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier:	NA-ASB5 (4-8')		
Lab Sample ID:	152517-01	**Date Sampled:**	6/18/2015
Matrix:	Soil	**Date Received:**	6/19/2015

1,1-Dichloroethene	< 188	ug/Kg	6/25/2015	08:31
1,2,3-Trichlorobenzene	< 469	ug/Kg	6/25/2015	08:31
1,2,4-Trichlorobenzene	< 469	ug/Kg	6/25/2015	08:31
1,2,4-Trimethylbenzene	**3700**	ug/Kg	6/25/2015	08:31
1,2-Dibromo-3-Chloropropane	< 938	ug/Kg	6/25/2015	08:31
1,2-Dibromoethane	< 188	ug/Kg	6/25/2015	08:31
1,2-Dichlorobenzene	< 188	ug/Kg	6/25/2015	08:31
1,2-Dichloroethane	< 188	ug/Kg	6/25/2015	08:31
1,2-Dichloropropane	< 188	ug/Kg	6/25/2015	08:31
1,3,5-Trimethylbenzene	**1270**	ug/Kg	6/25/2015	08:31
1,3-Dichlorobenzene	< 188	ug/Kg	6/25/2015	08:31
1,4-Dichlorobenzene	< 188	ug/Kg	6/25/2015	08:31
1,4-dioxane	< 1880	ug/Kg	6/25/2015	08:31
2-Butanone	< 938	ug/Kg	6/25/2015	08:31
2-Hexanone	< 469	ug/Kg	6/25/2015	08:31
4-Methyl-2-pentanone	< 469	ug/Kg	6/25/2015	08:31
Acetone	< 938	ug/Kg	6/25/2015	08:31
Benzene	< 188	ug/Kg	6/25/2015	08:31
Bromochloromethane	< 469	ug/Kg	6/25/2015	08:31
Bromodichloromethane	< 188	ug/Kg	6/25/2015	08:31
Bromoform	< 469	ug/Kg	6/25/2015	08:31
Bromomethane	< 188	ug/Kg	6/25/2015	08:31
Carbon disulfide	< 188	ug/Kg	6/25/2015	08:31
Carbon Tetrachloride	< 188	ug/Kg	6/25/2015	08:31
Chlorobenzene	< 188	ug/Kg	6/25/2015	08:31
Chloroethane	< 188	ug/Kg	6/25/2015	08:31
Chloroform	< 188	ug/Kg	6/25/2015	08:31
Chloromethane	< 188	ug/Kg	6/25/2015	08:31
cis-1,2-Dichloroethene	< 188	ug/Kg	6/25/2015	08:31
cis-1,3-Dichloropropene	< 188	ug/Kg	6/25/2015	08:31
Cyclohexane	**990**	ug/Kg	6/25/2015	08:31
Dibromochloromethane	< 188	ug/Kg	6/25/2015	08:31

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier:	NA-ASB5 (4-8')		
Lab Sample ID:	152517-01	**Date Sampled:**	6/18/2015
Matrix:	Soil	**Date Received:**	6/19/2015

Dichlorodifluoromethane	< 188	ug/Kg	6/25/2015	08:31
Ethylbenzene	< 188	ug/Kg	6/25/2015	08:31
Freon 113	< 188	ug/Kg	6/25/2015	08:31
Isopropylbenzene	**532**	ug/Kg	6/25/2015	08:31
m,p-Xylene	**494**	ug/Kg	6/25/2015	08:31
Methyl acetate	< 188	ug/Kg	6/25/2015	08:31
Methyl tert-butyl Ether	< 188	ug/Kg	6/25/2015	08:31
Methylcyclohexane	**4300**	ug/Kg	6/25/2015	08:31
Methylene chloride	< 469	ug/Kg	6/25/2015	08:31
Naphthalene	**5020**	ug/Kg	6/25/2015	08:31
n-Butylbenzene	**2030**	ug/Kg	6/25/2015	08:31
n-Propylbenzene	**882**	ug/Kg	6/25/2015	08:31
o-Xylene	**404**	ug/Kg	6/25/2015	08:31
p-Isopropyltoluene	**1040**	ug/Kg	6/25/2015	08:31
sec-Butylbenzene	**469**	ug/Kg	6/25/2015	08:31
Styrene	< 469	ug/Kg	6/25/2015	08:31
tert-Butylbenzene	< 188	ug/Kg	6/25/2015	08:31
Tetrachloroethene	< 188	ug/Kg	6/25/2015	08:31
Toluene	< 188	ug/Kg	6/25/2015	08:31
trans-1,2-Dichloroethene	< 188	ug/Kg	6/25/2015	08:31
trans-1,3-Dichloropropene	< 188	ug/Kg	6/25/2015	08:31
Trichloroethene	< 188	ug/Kg	6/25/2015	08:31
Trichlorofluoromethane	< 188	ug/Kg	6/25/2015	08:31
Vinyl chloride	< 188	ug/Kg	6/25/2015	08:31

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-ASB5 (4-8')

Lab Sample ID: 152517-01 **Date Sampled:** 6/18/2015

Matrix: Soil **Date Received:** 6/19/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**90.3**	80.6 - 125		6/25/2015 08:31
4-Bromofluorobenzene	**120**	86.6 - 111	*	6/25/2015 08:31
Pentafluorobenzene	**99.9**	90.9 - 107		6/25/2015 08:31
Toluene-D8	**99.5**	90.8 - 109		6/25/2015 08:31

Method Reference(s): EPA 8260C
EPA 5035A

Data File: x24075.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-ASB5 (8-10.2')
Lab Sample ID: 152517-02 **Date Sampled:** 6/18/2015
Matrix: Soil **Date Received:** 6/19/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0276**	mg/Kg		6/23/2015 15:22

Method Reference(s): EPA 7471B
Preparation Date: 6/23/2015
Data File: Hg150623B

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**4.72**	mg/Kg		6/23/2015 19:26
Barium	**128**	mg/Kg		6/23/2015 19:26
Cadmium	**0.449**	mg/Kg		6/23/2015 19:26
Chromium	**24.3**	mg/Kg		6/23/2015 19:26
Lead	**14.9**	mg/Kg		6/23/2015 19:26
Selenium	< 0.577	mg/Kg		6/23/2015 19:26
Silver	**1.42**	mg/Kg		6/23/2015 19:26

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 6/23/2015
Data File: 062315b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0346	mg/Kg		6/26/2015 07:46
PCB-1221	< 0.0346	mg/Kg		6/26/2015 07:46
PCB-1232	< 0.0346	mg/Kg		6/26/2015 07:46
PCB-1242	< 0.0346	mg/Kg		6/26/2015 07:46
PCB-1248	< 0.0346	mg/Kg		6/26/2015 07:46
PCB-1254	< 0.0346	mg/Kg		6/26/2015 07:46
PCB-1260	< 0.0346	mg/Kg		6/26/2015 07:46
PCB-1262	< 0.0346	mg/Kg		6/26/2015 07:46
PCB-1268	< 0.0346	mg/Kg		6/26/2015 07:46

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-ASB5 (8-10.2')
Lab Sample ID: 152517-02 **Date Sampled:** 6/18/2015
Matrix: Soil **Date Received:** 6/19/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**60.3**	30.5 - 159		6/26/2015 07:46
Tetrachloro-m-xylene	**32.3**	23.2 - 144		6/26/2015 07:46

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 6/25/2015

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.46	ug/Kg		6/25/2015 18:01
4,4-DDE	< 3.46	ug/Kg		6/25/2015 18:01
4,4-DDT	< 3.46	ug/Kg		6/25/2015 18:01
Aldrin	< 3.46	ug/Kg		6/25/2015 18:01
alpha-BHC	< 3.46	ug/Kg		6/25/2015 18:01
beta-BHC	< 3.46	ug/Kg		6/25/2015 18:01
cis-Chlordane	< 3.46	ug/Kg		6/25/2015 18:01
delta-BHC	< 3.46	ug/Kg		6/25/2015 18:01
Dieldrin	< 3.46	ug/Kg		6/25/2015 18:01
Endosulfan I	< 3.46	ug/Kg		6/25/2015 18:01
Endosulfan II	< 3.46	ug/Kg		6/25/2015 18:01
Endosulfan Sulfate	< 3.46	ug/Kg		6/25/2015 18:01
Endrin	< 3.46	ug/Kg		6/25/2015 18:01
Endrin Aldehyde	< 3.46	ug/Kg		6/25/2015 18:01
Endrin Ketone	< 3.46	ug/Kg		6/25/2015 18:01
gamma-BHC (Lindane)	< 3.46	ug/Kg		6/25/2015 18:01
Heptachlor	< 3.46	ug/Kg		6/25/2015 18:01
Heptachlor Epoxide	< 3.46	ug/Kg		6/25/2015 18:01
Methoxychlor	< 3.46	ug/Kg		6/25/2015 18:01
Toxaphene	< 34.6	ug/Kg		6/25/2015 18:01
trans-Chlordane	< 3.46	ug/Kg		6/25/2015 18:01

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-ASB5 (8-10.2')
Lab Sample ID: 152517-02 **Date Sampled:** 6/18/2015
Matrix: Soil **Date Received:** 6/19/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**103**	32.1 - 117.1		6/25/2015 18:01
Tetrachloro-m-xylene (1)	**54.7**	28.3 - 115.3		6/25/2015 18:01

Method Reference(s): EPA 8081B
EPA 3550C
Preparation Date: 6/25/2015

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 341	ug/Kg		6/26/2015 03:45
1,2,4,5-Tetrachlorobenzene	< 341	ug/Kg		6/26/2015 03:45
1,2,4-Trichlorobenzene	< 341	ug/Kg		6/26/2015 03:45
1,2-Dichlorobenzene	< 341	ug/Kg		6/26/2015 03:45
1,3-Dichlorobenzene	< 341	ug/Kg		6/26/2015 03:45
1,4-Dichlorobenzene	< 341	ug/Kg		6/26/2015 03:45
2,3,4,6-Tetrachlorophenol	< 341	ug/Kg		6/26/2015 03:45
2,4,5-Trichlorophenol	< 681	ug/Kg		6/26/2015 03:45
2,4,6-Trichlorophenol	< 341	ug/Kg		6/26/2015 03:45
2,4-Dichlorophenol	< 341	ug/Kg		6/26/2015 03:45
2,4-Dimethylphenol	< 341	ug/Kg		6/26/2015 03:45
2,4-Dinitrophenol	< 681	ug/Kg		6/26/2015 03:45
2,4-Dinitrotoluene	< 341	ug/Kg		6/26/2015 03:45
2,6-Dinitrotoluene	< 341	ug/Kg		6/26/2015 03:45
2-Chloronaphthalene	< 341	ug/Kg		6/26/2015 03:45
2-Chlorophenol	< 341	ug/Kg		6/26/2015 03:45
2-Methylnapthalene	< 341	ug/Kg		6/26/2015 03:45
2-Methylphenol	< 341	ug/Kg		6/26/2015 03:45
2-Nitroaniline	< 681	ug/Kg		6/26/2015 03:45
2-Nitrophenol	< 341	ug/Kg		6/26/2015 03:45
3&4-Methylphenol	< 341	ug/Kg		6/26/2015 03:45
3,3'-Dichlorobenzidine	< 341	ug/Kg		6/26/2015 03:45
3-Nitroaniline	< 681	ug/Kg		6/26/2015 03:45
4,6-Dinitro-2-methylphenol	< 681	ug/Kg		6/26/2015 03:45

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier:	NA-ASB5 (8-10.2')		
Lab Sample ID:	152517-02	**Date Sampled:**	6/18/2015
Matrix:	Soil	**Date Received:**	6/19/2015

4-Bromophenyl phenyl ether	< 341	ug/Kg	6/26/2015	03:45
4-Chloro-3-methylphenol	< 341	ug/Kg	6/26/2015	03:45
4-Chloroaniline	< 341	ug/Kg	6/26/2015	03:45
4-Chlorophenyl phenyl ether	< 341	ug/Kg	6/26/2015	03:45
4-Nitroaniline	< 681	ug/Kg	6/26/2015	03:45
4-Nitrophenol	< 681	ug/Kg	6/26/2015	03:45
Acenaphthene	< 341	ug/Kg	6/26/2015	03:45
Acenaphthylene	< 341	ug/Kg	6/26/2015	03:45
Acetophenone	< 341	ug/Kg	6/26/2015	03:45
Anthracene	< 341	ug/Kg	6/26/2015	03:45
Atrazine	< 341	ug/Kg	6/26/2015	03:45
Benzaldehyde	< 341	ug/Kg	6/26/2015	03:45
Benzo (a) anthracene	< 341	ug/Kg	6/26/2015	03:45
Benzo (a) pyrene	< 341	ug/Kg	6/26/2015	03:45
Benzo (b) fluoranthene	< 341	ug/Kg	6/26/2015	03:45
Benzo (g,h,i) perylene	< 341	ug/Kg	6/26/2015	03:45
Benzo (k) fluoranthene	< 341	ug/Kg	6/26/2015	03:45
Bis (2-chloroethoxy) methane	< 341	ug/Kg	6/26/2015	03:45
Bis (2-chloroethyl) ether	< 341	ug/Kg	6/26/2015	03:45
Bis (2-chloroisopropyl) ether	< 341	ug/Kg	6/26/2015	03:45
Bis (2-ethylhexyl) phthalate	< 341	ug/Kg	6/26/2015	03:45
Butylbenzylphthalate	< 341	ug/Kg	6/26/2015	03:45
Caprolactam	< 341	ug/Kg	6/26/2015	03:45
Carbazole	< 341	ug/Kg	6/26/2015	03:45
Chrysene	< 341	ug/Kg	6/26/2015	03:45
Dibenz (a,h) anthracene	< 341	ug/Kg	6/26/2015	03:45
Dibenzofuran	< 341	ug/Kg	6/26/2015	03:45
Diethyl phthalate	< 341	ug/Kg	6/26/2015	03:45
Dimethyl phthalate	< 681	ug/Kg	6/26/2015	03:45
Di-n-butyl phthalate	< 341	ug/Kg	6/26/2015	03:45
Di-n-octylphthalate	< 341	ug/Kg	6/26/2015	03:45
Fluoranthene	< 341	ug/Kg	6/26/2015	03:45

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-ASB5 (8-10.2')
Lab Sample ID: 152517-02 **Date Sampled:** 6/18/2015
Matrix: Soil **Date Received:** 6/19/2015

Fluorene	< 341	ug/Kg	6/26/2015	03:45
Hexachlorobenzene	< 341	ug/Kg	6/26/2015	03:45
Hexachlorobutadiene	< 341	ug/Kg	6/26/2015	03:45
Hexachlorocyclopentadiene	< 341	ug/Kg	6/26/2015	03:45
Hexachloroethane	< 341	ug/Kg	6/26/2015	03:45
Indeno (1,2,3-cd) pyrene	< 341	ug/Kg	6/26/2015	03:45
Isophorone	< 341	ug/Kg	6/26/2015	03:45
Naphthalene	< 341	ug/Kg	6/26/2015	03:45
Nitrobenzene	< 341	ug/Kg	6/26/2015	03:45
N-Nitroso-di-n-propylamine	< 341	ug/Kg	6/26/2015	03:45
N-Nitrosodiphenylamine	< 341	ug/Kg	6/26/2015	03:45
Pentachlorophenol	< 681	ug/Kg	6/26/2015	03:45
Phenanthrene	**635**	ug/Kg	6/26/2015	03:45
Phenol	< 341	ug/Kg	6/26/2015	03:45
Pyrene	< 341	ug/Kg	6/26/2015	03:45

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**85.8**	41.6 - 115		6/26/2015	03:45
2-Fluorobiphenyl	**69.7**	35.9 - 103		6/26/2015	03:45
2-Fluorophenol	**54.5**	39.9 - 87.9		6/26/2015	03:45
Nitrobenzene-d5	**53.8**	37.2 - 90.6		6/26/2015	03:45
Phenol-d5	**56.0**	42.3 - 90.6		6/26/2015	03:45
Terphenyl-d14	**87.7**	58.2 - 113		6/26/2015	03:45

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 6/25/2015
Data File: B06055.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 8.15	ug/Kg		6/25/2015	10:44
1,1,2,2-Tetrachloroethane	< 8.15	ug/Kg		6/25/2015	10:44
1,1,2-Trichloroethane	< 8.15	ug/Kg		6/25/2015	10:44
1,1-Dichloroethane	< 8.15	ug/Kg		6/25/2015	10:44

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier:	NA-ASB5 (8-10.2')		
Lab Sample ID:	152517-02	**Date Sampled:**	6/18/2015
Matrix:	Soil	**Date Received:**	6/19/2015

1,1-Dichloroethene	< 8.15	ug/Kg	6/25/2015	10:44
1,2,3-Trichlorobenzene	< 20.4	ug/Kg	6/25/2015	10:44
1,2,4-Trichlorobenzene	< 20.4	ug/Kg	6/25/2015	10:44
1,2,4-Trimethylbenzene	< 8.15	ug/Kg	6/25/2015	10:44
1,2-Dibromo-3-Chloropropane	< 40.7	ug/Kg	6/25/2015	10:44
1,2-Dibromoethane	< 8.15	ug/Kg	6/25/2015	10:44
1,2-Dichlorobenzene	< 8.15	ug/Kg	6/25/2015	10:44
1,2-Dichloroethane	< 8.15	ug/Kg	6/25/2015	10:44
1,2-Dichloropropane	< 8.15	ug/Kg	6/25/2015	10:44
1,3,5-Trimethylbenzene	< 8.15	ug/Kg	6/25/2015	10:44
1,3-Dichlorobenzene	< 8.15	ug/Kg	6/25/2015	10:44
1,4-Dichlorobenzene	< 8.15	ug/Kg	6/25/2015	10:44
1,4-dioxane	< 81.5	ug/Kg	6/25/2015	10:44
2-Butanone	< 40.7	ug/Kg	6/25/2015	10:44
2-Hexanone	< 20.4	ug/Kg	6/25/2015	10:44
4-Methyl-2-pentanone	< 20.4	ug/Kg	6/25/2015	10:44
Acetone	**136**	ug/Kg	6/25/2015	10:44
Benzene	< 8.15	ug/Kg	6/25/2015	10:44
Bromochloromethane	< 20.4	ug/Kg	6/25/2015	10:44
Bromodichloromethane	< 8.15	ug/Kg	6/25/2015	10:44
Bromoform	< 20.4	ug/Kg	6/25/2015	10:44
Bromomethane	< 8.15	ug/Kg	6/25/2015	10:44
Carbon disulfide	< 8.15	ug/Kg	6/25/2015	10:44
Carbon Tetrachloride	< 8.15	ug/Kg	6/25/2015	10:44
Chlorobenzene	< 8.15	ug/Kg	6/25/2015	10:44
Chloroethane	< 8.15	ug/Kg	6/25/2015	10:44
Chloroform	< 8.15	ug/Kg	6/25/2015	10:44
Chloromethane	< 8.15	ug/Kg	6/25/2015	10:44
cis-1,2-Dichloroethene	< 8.15	ug/Kg	6/25/2015	10:44
cis-1,3-Dichloropropene	< 8.15	ug/Kg	6/25/2015	10:44
Cyclohexane	< 40.7	ug/Kg	6/25/2015	10:44
Dibromochloromethane	< 8.15	ug/Kg	6/25/2015	10:44

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-ASB5 (8-10.2')
Lab Sample ID: 152517-02 **Date Sampled:** 6/18/2015
Matrix: Soil **Date Received:** 6/19/2015

Dichlorodifluoromethane	< 8.15	ug/Kg	6/25/2015	10:44
Ethylbenzene	< 8.15	ug/Kg	6/25/2015	10:44
Freon 113	< 8.15	ug/Kg	6/25/2015	10:44
Isopropylbenzene	**27.5**	ug/Kg	6/25/2015	10:44
m,p-Xylene	< 8.15	ug/Kg	6/25/2015	10:44
Methyl acetate	< 8.15	ug/Kg	6/25/2015	10:44
Methyl tert-butyl Ether	< 8.15	ug/Kg	6/25/2015	10:44
Methylcyclohexane	**100**	ug/Kg	6/25/2015	10:44
Methylene chloride	< 20.4	ug/Kg	6/25/2015	10:44
Naphthalene	< 20.4	ug/Kg	6/25/2015	10:44
n-Butylbenzene	**88.1**	ug/Kg	6/25/2015	10:44
n-Propylbenzene	< 8.15	ug/Kg	6/25/2015	10:44
o-Xylene	< 8.15	ug/Kg	6/25/2015	10:44
p-Isopropyltoluene	< 8.15	ug/Kg	6/25/2015	10:44
sec-Butylbenzene	**33.6**	ug/Kg	6/25/2015	10:44
Styrene	< 20.4	ug/Kg	6/25/2015	10:44
tert-Butylbenzene	< 8.15	ug/Kg	6/25/2015	10:44
Tetrachloroethene	< 8.15	ug/Kg	6/25/2015	10:44
Toluene	< 8.15	ug/Kg	6/25/2015	10:44
trans-1,2-Dichloroethene	< 8.15	ug/Kg	6/25/2015	10:44
trans-1,3-Dichloropropene	< 8.15	ug/Kg	6/25/2015	10:44
Trichloroethene	< 8.15	ug/Kg	6/25/2015	10:44
Trichlorofluoromethane	< 8.15	ug/Kg	6/25/2015	10:44
Vinyl chloride	< 8.15	ug/Kg	6/25/2015	10:44

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-ASB5 (8-10.2')

Lab Sample ID: 152517-02 **Date Sampled:** 6/18/2015

Matrix: Soil **Date Received:** 6/19/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**86.9**	80.6 - 125		6/25/2015 10:44
4-Bromofluorobenzene	**119**	86.6 - 111	*	6/25/2015 10:44
Pentafluorobenzene	**102**	90.9 - 107		6/25/2015 10:44
Toluene-D8	**103**	90.8 - 109		6/25/2015 10:44

Method Reference(s): EPA 8260C
EPA 5035A

Data File: x24079.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier:	NA-ASB8 (0-4')		
Lab Sample ID:	152517-03	**Date Sampled:**	6/18/2015
Matrix:	Soil	**Date Received:**	6/19/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**5.31**	mg/Kg		6/23/2015 15:58

Method Reference(s): EPA 7471B
Preparation Date: 6/23/2015
Data File: Hg150623B

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**103**	mg/Kg		6/23/2015 19:30
Barium	**137**	mg/Kg		6/23/2015 19:30
Cadmium	**16.6**	mg/Kg		6/23/2015 19:30
Chromium	**99.8**	mg/Kg		6/23/2015 19:30
Lead	**9780**	mg/Kg		6/24/2015 12:57
Selenium	**19.8**	mg/Kg		6/23/2015 19:30
Silver	< 0.502	mg/Kg		6/23/2015 19:30

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 6/23/2015
Data File: 062315b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0319	mg/Kg		6/30/2015 02:43
PCB-1221	< 0.0319	mg/Kg		6/30/2015 02:43
PCB-1232	< 0.0319	mg/Kg		6/30/2015 02:43
PCB-1242	< 0.0319	mg/Kg		6/30/2015 02:43
PCB-1248	< 0.0319	mg/Kg		6/30/2015 02:43
PCB-1254	**0.126**	mg/Kg		6/30/2015 02:43
PCB-1260	< 0.0319	mg/Kg		6/30/2015 02:43
PCB-1262	< 0.0319	mg/Kg		6/30/2015 02:43
PCB-1268	< 0.0319	mg/Kg		6/30/2015 02:43

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-ASB8 (0-4')
Lab Sample ID: 152517-03 **Date Sampled:** 6/18/2015
Matrix: Soil **Date Received:** 6/19/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**57.5**	30.5 - 159		6/30/2015 02:43
Tetrachloro-m-xylene	**42.8**	23.2 - 144		6/30/2015 02:43

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 6/25/2015

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.19	ug/Kg		6/25/2015 18:14
4,4-DDE	**3.93**	ug/Kg	P	6/25/2015 18:14
4,4-DDT	**18.3**	ug/Kg	P	6/25/2015 18:14
Aldrin	< 3.19	ug/Kg		6/25/2015 18:14
alpha-BHC	< 3.19	ug/Kg		6/25/2015 18:14
beta-BHC	< 3.19	ug/Kg		6/25/2015 18:14
cis-Chlordane	< 3.19	ug/Kg		6/25/2015 18:14
delta-BHC	< 3.19	ug/Kg		6/25/2015 18:14
Dieldrin	< 3.19	ug/Kg		6/25/2015 18:14
Endosulfan I	< 3.19	ug/Kg		6/25/2015 18:14
Endosulfan II	< 3.19	ug/Kg		6/25/2015 18:14
Endosulfan Sulfate	**3.61**	ug/Kg		6/25/2015 18:14
Endrin	< 3.19	ug/Kg		6/25/2015 18:14
Endrin Aldehyde	< 3.19	ug/Kg		6/25/2015 18:14
Endrin Ketone	< 3.19	ug/Kg		6/25/2015 18:14
gamma-BHC (Lindane)	< 3.19	ug/Kg		6/25/2015 18:14
Heptachlor	< 3.19	ug/Kg		6/25/2015 18:14
Heptachlor Epoxide	**6.52**	ug/Kg		6/25/2015 18:14
Methoxychlor	**9.00**	ug/Kg	P	6/25/2015 18:14
Toxaphene	< 31.9	ug/Kg		6/25/2015 18:14
trans-Chlordane	< 3.19	ug/Kg		6/25/2015 18:14

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-ASB8 (0-4')
Lab Sample ID: 152517-03 **Date Sampled:** 6/18/2015
Matrix: Soil **Date Received:** 6/19/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**136**	32.1 - 117.1	*	6/25/2015 18:14
Tetrachloro-m-xylene (1)	**54.4**	28.3 - 115.3		6/25/2015 18:14

Method Reference(s): EPA 8081B
EPA 3550C
Preparation Date: 6/25/2015

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 315	ug/Kg		6/26/2015 04:13
1,2,4,5-Tetrachlorobenzene	< 315	ug/Kg		6/26/2015 04:13
1,2,4-Trichlorobenzene	< 315	ug/Kg		6/26/2015 04:13
1,2-Dichlorobenzene	< 315	ug/Kg		6/26/2015 04:13
1,3-Dichlorobenzene	< 315	ug/Kg		6/26/2015 04:13
1,4-Dichlorobenzene	< 315	ug/Kg		6/26/2015 04:13
2,3,4,6-Tetrachlorophenol	< 315	ug/Kg		6/26/2015 04:13
2,4,5-Trichlorophenol	< 630	ug/Kg		6/26/2015 04:13
2,4,6-Trichlorophenol	< 315	ug/Kg		6/26/2015 04:13
2,4-Dichlorophenol	< 315	ug/Kg		6/26/2015 04:13
2,4-Dimethylphenol	< 315	ug/Kg		6/26/2015 04:13
2,4-Dinitrophenol	< 630	ug/Kg		6/26/2015 04:13
2,4-Dinitrotoluene	< 315	ug/Kg		6/26/2015 04:13
2,6-Dinitrotoluene	< 315	ug/Kg		6/26/2015 04:13
2-Chloronaphthalene	< 315	ug/Kg		6/26/2015 04:13
2-Chlorophenol	< 315	ug/Kg		6/26/2015 04:13
2-Methylnapthalene	< 315	ug/Kg		6/26/2015 04:13
2-Methylphenol	< 315	ug/Kg		6/26/2015 04:13
2-Nitroaniline	< 630	ug/Kg		6/26/2015 04:13
2-Nitrophenol	< 315	ug/Kg		6/26/2015 04:13
3&4-Methylphenol	< 315	ug/Kg		6/26/2015 04:13
3,3'-Dichlorobenzidine	< 315	ug/Kg		6/26/2015 04:13
3-Nitroaniline	< 630	ug/Kg		6/26/2015 04:13
4,6-Dinitro-2-methylphenol	< 630	ug/Kg		6/26/2015 04:13

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier:	NA-ASB8 (0-4')		
Lab Sample ID:	152517-03	**Date Sampled:**	6/18/2015
Matrix:	Soil	**Date Received:**	6/19/2015

4-Bromophenyl phenyl ether	< 315	ug/Kg	6/26/2015	04:13
4-Chloro-3-methylphenol	< 315	ug/Kg	6/26/2015	04:13
4-Chloroaniline	< 315	ug/Kg	6/26/2015	04:13
4-Chlorophenyl phenyl ether	< 315	ug/Kg	6/26/2015	04:13
4-Nitroaniline	< 630	ug/Kg	6/26/2015	04:13
4-Nitrophenol	< 630	ug/Kg	6/26/2015	04:13
Acenaphthene	< 315	ug/Kg	6/26/2015	04:13
Acenaphthylene	< 315	ug/Kg	6/26/2015	04:13
Acetophenone	< 315	ug/Kg	6/26/2015	04:13
Anthracene	< 315	ug/Kg	6/26/2015	04:13
Atrazine	< 315	ug/Kg	6/26/2015	04:13
Benzaldehyde	< 315	ug/Kg	6/26/2015	04:13
Benzo (a) anthracene	< 315	ug/Kg	6/26/2015	04:13
Benzo (a) pyrene	< 315	ug/Kg	6/26/2015	04:13
Benzo (b) fluoranthene	< 315	ug/Kg	6/26/2015	04:13
Benzo (g,h,i) perylene	< 315	ug/Kg	6/26/2015	04:13
Benzo (k) fluoranthene	< 315	ug/Kg	6/26/2015	04:13
Bis (2-chloroethoxy) methane	< 315	ug/Kg	6/26/2015	04:13
Bis (2-chloroethyl) ether	< 315	ug/Kg	6/26/2015	04:13
Bis (2-chloroisopropyl) ether	< 315	ug/Kg	6/26/2015	04:13
Bis (2-ethylhexyl) phthalate	**559**	ug/Kg	6/26/2015	04:13
Butylbenzylphthalate	< 315	ug/Kg	6/26/2015	04:13
Caprolactam	< 315	ug/Kg	6/26/2015	04:13
Carbazole	< 315	ug/Kg	6/26/2015	04:13
Chrysene	< 315	ug/Kg	6/26/2015	04:13
Dibenz (a,h) anthracene	< 315	ug/Kg	6/26/2015	04:13
Dibenzofuran	< 315	ug/Kg	6/26/2015	04:13
Diethyl phthalate	< 315	ug/Kg	6/26/2015	04:13
Dimethyl phthalate	< 630	ug/Kg	6/26/2015	04:13
Di-n-butyl phthalate	< 315	ug/Kg	6/26/2015	04:13
Di-n-octylphthalate	< 315	ug/Kg	6/26/2015	04:13
Fluoranthene	**778**	ug/Kg	6/26/2015	04:13

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-ASB8 (0-4')
Lab Sample ID: 152517-03 **Date Sampled:** 6/18/2015
Matrix: Soil **Date Received:** 6/19/2015

Fluorene	< 315	ug/Kg	6/26/2015	04:13
Hexachlorobenzene	< 315	ug/Kg	6/26/2015	04:13
Hexachlorobutadiene	< 315	ug/Kg	6/26/2015	04:13
Hexachlorocyclopentadiene	< 315	ug/Kg	6/26/2015	04:13
Hexachloroethane	< 315	ug/Kg	6/26/2015	04:13
Indeno (1,2,3-cd) pyrene	< 315	ug/Kg	6/26/2015	04:13
Isophorone	< 315	ug/Kg	6/26/2015	04:13
Naphthalene	< 315	ug/Kg	6/26/2015	04:13
Nitrobenzene	< 315	ug/Kg	6/26/2015	04:13
N-Nitroso-di-n-propylamine	< 315	ug/Kg	6/26/2015	04:13
N-Nitrosodiphenylamine	< 315	ug/Kg	6/26/2015	04:13
Pentachlorophenol	< 630	ug/Kg	6/26/2015	04:13
Phenanthrene	**596**	ug/Kg	6/26/2015	04:13
Phenol	< 315	ug/Kg	6/26/2015	04:13
Pyrene	**567**	ug/Kg	6/26/2015	04:13

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**80.1**	41.6 - 115		6/26/2015	04:13
2-Fluorobiphenyl	**82.6**	35.9 - 103		6/26/2015	04:13
2-Fluorophenol	**60.6**	39.9 - 87.9		6/26/2015	04:13
Nitrobenzene-d5	**62.7**	37.2 - 90.6		6/26/2015	04:13
Phenol-d5	**71.5**	42.3 - 90.6		6/26/2015	04:13
Terphenyl-d14	**81.8**	58.2 - 113		6/26/2015	04:13

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 6/25/2015
Data File: B06056.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 8.58	ug/Kg		6/25/2015	10:20
1,1,2,2-Tetrachloroethane	< 8.58	ug/Kg		6/25/2015	10:20
1,1,2-Trichloroethane	< 8.58	ug/Kg		6/25/2015	10:20
1,1-Dichloroethane	< 8.58	ug/Kg		6/25/2015	10:20

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier:	NA-ASB8 (0-4')		
Lab Sample ID:	152517-03	**Date Sampled:**	6/18/2015
Matrix:	Soil	**Date Received:**	6/19/2015

1,1-Dichloroethene	< 8.58	ug/Kg	6/25/2015	10:20
1,2,3-Trichlorobenzene	< 21.4	ug/Kg	6/25/2015	10:20
1,2,4-Trichlorobenzene	< 21.4	ug/Kg	6/25/2015	10:20
1,2,4-Trimethylbenzene	< 8.58	ug/Kg	6/25/2015	10:20
1,2-Dibromo-3-Chloropropane	< 42.9	ug/Kg	6/25/2015	10:20
1,2-Dibromoethane	< 8.58	ug/Kg	6/25/2015	10:20
1,2-Dichlorobenzene	< 8.58	ug/Kg	6/25/2015	10:20
1,2-Dichloroethane	< 8.58	ug/Kg	6/25/2015	10:20
1,2-Dichloropropane	< 8.58	ug/Kg	6/25/2015	10:20
1,3,5-Trimethylbenzene	< 8.58	ug/Kg	6/25/2015	10:20
1,3-Dichlorobenzene	< 8.58	ug/Kg	6/25/2015	10:20
1,4-Dichlorobenzene	< 8.58	ug/Kg	6/25/2015	10:20
1,4-dioxane	< 85.8	ug/Kg	6/25/2015	10:20
2-Butanone	< 42.9	ug/Kg	6/25/2015	10:20
2-Hexanone	< 21.4	ug/Kg	6/25/2015	10:20
4-Methyl-2-pentanone	< 21.4	ug/Kg	6/25/2015	10:20
Acetone	< 42.9	ug/Kg	6/25/2015	10:20
Benzene	< 8.58	ug/Kg	6/25/2015	10:20
Bromochloromethane	< 21.4	ug/Kg	6/25/2015	10:20
Bromodichloromethane	< 8.58	ug/Kg	6/25/2015	10:20
Bromoform	< 21.4	ug/Kg	6/25/2015	10:20
Bromomethane	< 8.58	ug/Kg	6/25/2015	10:20
Carbon disulfide	< 8.58	ug/Kg	6/25/2015	10:20
Carbon Tetrachloride	< 8.58	ug/Kg	6/25/2015	10:20
Chlorobenzene	< 8.58	ug/Kg	6/25/2015	10:20
Chloroethane	< 8.58	ug/Kg	6/25/2015	10:20
Chloroform	< 8.58	ug/Kg	6/25/2015	10:20
Chloromethane	< 8.58	ug/Kg	6/25/2015	10:20
cis-1,2-Dichloroethene	< 8.58	ug/Kg	6/25/2015	10:20
cis-1,3-Dichloropropene	< 8.58	ug/Kg	6/25/2015	10:20
Cyclohexane	< 42.9	ug/Kg	6/25/2015	10:20
Dibromochloromethane	< 8.58	ug/Kg	6/25/2015	10:20

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier:	NA-ASB8 (0-4')		
Lab Sample ID:	152517-03	**Date Sampled:**	6/18/2015
Matrix:	Soil	**Date Received:**	6/19/2015

Dichlorodifluoromethane	< 8.58	ug/Kg	6/25/2015	10:20
Ethylbenzene	< 8.58	ug/Kg	6/25/2015	10:20
Freon 113	< 8.58	ug/Kg	6/25/2015	10:20
Isopropylbenzene	< 8.58	ug/Kg	6/25/2015	10:20
m,p-Xylene	< 8.58	ug/Kg	6/25/2015	10:20
Methyl acetate	< 8.58	ug/Kg	6/25/2015	10:20
Methyl tert-butyl Ether	< 8.58	ug/Kg	6/25/2015	10:20
Methylcyclohexane	< 8.58	ug/Kg	6/25/2015	10:20
Methylene chloride	< 21.4	ug/Kg	6/25/2015	10:20
Naphthalene	< 21.4	ug/Kg	6/25/2015	10:20
n-Butylbenzene	< 8.58	ug/Kg	6/25/2015	10:20
n-Propylbenzene	< 8.58	ug/Kg	6/25/2015	10:20
o-Xylene	< 8.58	ug/Kg	6/25/2015	10:20
p-Isopropyltoluene	< 8.58	ug/Kg	6/25/2015	10:20
sec-Butylbenzene	< 8.58	ug/Kg	6/25/2015	10:20
Styrene	< 21.4	ug/Kg	6/25/2015	10:20
tert-Butylbenzene	< 8.58	ug/Kg	6/25/2015	10:20
Tetrachloroethene	< 8.58	ug/Kg	6/25/2015	10:20
Toluene	< 8.58	ug/Kg	6/25/2015	10:20
trans-1,2-Dichloroethene	< 8.58	ug/Kg	6/25/2015	10:20
trans-1,3-Dichloropropene	< 8.58	ug/Kg	6/25/2015	10:20
Trichloroethene	< 8.58	ug/Kg	6/25/2015	10:20
Trichlorofluoromethane	< 8.58	ug/Kg	6/25/2015	10:20
Vinyl chloride	< 8.58	ug/Kg	6/25/2015	10:20

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-ASB8 (0-4')

Lab Sample ID: 152517-03 **Date Sampled:** 6/18/2015

Matrix: Soil **Date Received:** 6/19/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**89.3**	80.6 - 125		6/25/2015 10:20
4-Bromofluorobenzene	**92.5**	86.6 - 111		6/25/2015 10:20
Pentafluorobenzene	**99.2**	90.9 - 107		6/25/2015 10:20
Toluene-D8	**92.3**	90.8 - 109		6/25/2015 10:20

Method Reference(s): EPA 8260C
EPA 5035A

Data File: x24078.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier:	NA-SB19 (0-4')		
Lab Sample ID:	152517-04	**Date Sampled:**	6/18/2015
Matrix:	Soil	**Date Received:**	6/19/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.139**	mg/Kg		6/23/2015 15:38

Method Reference(s): EPA 7471B
Preparation Date: 6/23/2015
Data File: Hg150623B

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**29.6**	mg/Kg		6/23/2015 19:33
Barium	**459**	mg/Kg		6/23/2015 19:33
Cadmium	**5.53**	mg/Kg		6/23/2015 19:33
Chromium	**636**	mg/Kg		6/23/2015 19:33
Lead	**375**	mg/Kg		6/23/2015 19:33
Selenium	**8.58**	mg/Kg		6/23/2015 19:33
Silver	**4.73**	mg/Kg		6/23/2015 19:33

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 6/23/2015
Data File: 062315b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 3.29	mg/Kg		6/30/2015 03:06
PCB-1221	< 3.29	mg/Kg		6/30/2015 03:06
PCB-1232	< 3.29	mg/Kg		6/30/2015 03:06
PCB-1242	< 3.29	mg/Kg		6/30/2015 03:06
PCB-1248	< 3.29	mg/Kg		6/30/2015 03:06
PCB-1254	**46.1**	mg/Kg		6/30/2015 03:06
PCB-1260	< 3.29	mg/Kg		6/30/2015 03:06
PCB-1262	< 3.29	mg/Kg		6/30/2015 03:06
PCB-1268	< 3.29	mg/Kg		6/30/2015 03:06

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Tuesday, June 30, 2015

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-SB19 (0-4')
Lab Sample ID: 152517-04 **Date Sampled:** 6/18/2015
Matrix: Soil **Date Received:** 6/19/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	NC	30.5 - 159		6/30/2015 03:06
Tetrachloro-m-xylene	NC	23.2 - 144		6/30/2015 03:06

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 6/25/2015

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	**1790**	ug/Kg	P	6/26/2015 14:56
4,4-DDE	**2020**	ug/Kg	P	6/26/2015 14:56
4,4-DDT	**5530**	ug/Kg		6/26/2015 14:56
Aldrin	< 329	ug/Kg		6/26/2015 14:56
alpha-BHC	< 329	ug/Kg		6/26/2015 14:56
beta-BHC	< 329	ug/Kg		6/26/2015 14:56
cis-Chlordane	< 329	ug/Kg		6/26/2015 14:56
delta-BHC	< 329	ug/Kg		6/26/2015 14:56
Dieldrin	**497**	ug/Kg	P	6/26/2015 14:56
Endosulfan I	**597**	ug/Kg	P	6/26/2015 14:56
Endosulfan II	**486**	ug/Kg		6/26/2015 14:56
Endosulfan Sulfate	< 329	ug/Kg		6/26/2015 14:56
Endrin	**3630**	ug/Kg		6/26/2015 14:56
Endrin Aldehyde	< 329	ug/Kg		6/26/2015 14:56
Endrin Ketone	< 329	ug/Kg		6/26/2015 14:56
gamma-BHC (Lindane)	< 329	ug/Kg		6/26/2015 14:56
Heptachlor	< 329	ug/Kg		6/26/2015 14:56
Heptachlor Epoxide	**481**	ug/Kg	P	6/26/2015 14:56
Methoxychlor	**1160**	ug/Kg	P	6/26/2015 14:56
Toxaphene	< 3290	ug/Kg		6/26/2015 14:56
trans-Chlordane	**1600**	ug/Kg	P	6/26/2015 14:56

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-SB19 (0-4')
Lab Sample ID: 152517-04 **Date Sampled:** 6/18/2015
Matrix: Soil **Date Received:** 6/19/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	NC	32.1 - 117.1		6/26/2015 14:56
Tetrachloro-m-xylene (1)	NC	28.3 - 115.3		6/26/2015 14:56

Method Reference(s): EPA 8081B
EPA 3550C
Preparation Date: 6/25/2015

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 1650	ug/Kg		6/26/2015 21:03
1,2,4,5-Tetrachlorobenzene	< 1650	ug/Kg		6/26/2015 21:03
1,2,4-Trichlorobenzene	< 1650	ug/Kg		6/26/2015 21:03
1,2-Dichlorobenzene	< 1650	ug/Kg		6/26/2015 21:03
1,3-Dichlorobenzene	< 1650	ug/Kg		6/26/2015 21:03
1,4-Dichlorobenzene	< 1650	ug/Kg		6/26/2015 21:03
2,3,4,6-Tetrachlorophenol	< 1650	ug/Kg		6/26/2015 21:03
2,4,5-Trichlorophenol	< 3310	ug/Kg		6/26/2015 21:03
2,4,6-Trichlorophenol	< 1650	ug/Kg		6/26/2015 21:03
2,4-Dichlorophenol	< 1650	ug/Kg		6/26/2015 21:03
2,4-Dimethylphenol	< 1650	ug/Kg		6/26/2015 21:03
2,4-Dinitrophenol	< 3310	ug/Kg		6/26/2015 21:03
2,4-Dinitrotoluene	< 1650	ug/Kg		6/26/2015 21:03
2,6-Dinitrotoluene	< 1650	ug/Kg		6/26/2015 21:03
2-Chloronaphthalene	< 1650	ug/Kg		6/26/2015 21:03
2-Chlorophenol	< 1650	ug/Kg		6/26/2015 21:03
2-Methylnapthalene	< 1650	ug/Kg		6/26/2015 21:03
2-Methylphenol	< 1650	ug/Kg		6/26/2015 21:03
2-Nitroaniline	< 3310	ug/Kg		6/26/2015 21:03
2-Nitrophenol	< 1650	ug/Kg		6/26/2015 21:03
3&4-Methylphenol	< 1650	ug/Kg		6/26/2015 21:03
3,3'-Dichlorobenzidine	< 1650	ug/Kg		6/26/2015 21:03
3-Nitroaniline	< 3310	ug/Kg		6/26/2015 21:03
4,6-Dinitro-2-methylphenol	< 3310	ug/Kg		6/26/2015 21:03

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier:	NA-SB19 (0-4')		
Lab Sample ID:	152517-04	**Date Sampled:**	6/18/2015
Matrix:	Soil	**Date Received:**	6/19/2015

4-Bromophenyl phenyl ether	< 1650	ug/Kg	6/26/2015	21:03
4-Chloro-3-methylphenol	< 1650	ug/Kg	6/26/2015	21:03
4-Chloroaniline	< 1650	ug/Kg	6/26/2015	21:03
4-Chlorophenyl phenyl ether	< 1650	ug/Kg	6/26/2015	21:03
4-Nitroaniline	< 3310	ug/Kg	6/26/2015	21:03
4-Nitrophenol	< 3310	ug/Kg	6/26/2015	21:03
Acenaphthene	< 1650	ug/Kg	6/26/2015	21:03
Acenaphthylene	< 1650	ug/Kg	6/26/2015	21:03
Acetophenone	< 1650	ug/Kg	6/26/2015	21:03
Anthracene	< 1650	ug/Kg	6/26/2015	21:03
Atrazine	< 1650	ug/Kg	6/26/2015	21:03
Benzaldehyde	< 1650	ug/Kg	6/26/2015	21:03
Benzo (a) anthracene	**3560**	ug/Kg	6/26/2015	21:03
Benzo (a) pyrene	**4480**	ug/Kg	6/26/2015	21:03
Benzo (b) fluoranthene	**5530**	ug/Kg	6/26/2015	21:03
Benzo (g,h,i) perylene	**3850**	ug/Kg	6/26/2015	21:03
Benzo (k) fluoranthene	**2840**	ug/Kg	6/26/2015	21:03
Bis (2-chloroethoxy) methane	< 1650	ug/Kg	6/26/2015	21:03
Bis (2-chloroethyl) ether	< 1650	ug/Kg	6/26/2015	21:03
Bis (2-chloroisopropyl) ether	< 1650	ug/Kg	6/26/2015	21:03
Bis (2-ethylhexyl) phthalate	< 1650	ug/Kg	6/26/2015	21:03
Butylbenzylphthalate	< 1650	ug/Kg	6/26/2015	21:03
Caprolactam	< 1650	ug/Kg	6/26/2015	21:03
Carbazole	< 1650	ug/Kg	6/26/2015	21:03
Chrysene	**4470**	ug/Kg	6/26/2015	21:03
Dibenz (a,h) anthracene	< 1650	ug/Kg	6/26/2015	21:03
Dibenzofuran	< 1650	ug/Kg	6/26/2015	21:03
Diethyl phthalate	< 1650	ug/Kg	6/26/2015	21:03
Dimethyl phthalate	< 3310	ug/Kg	6/26/2015	21:03
Di-n-butyl phthalate	< 1650	ug/Kg	6/26/2015	21:03
Di-n-octylphthalate	< 1650	ug/Kg	6/26/2015	21:03
Fluoranthene	**7590**	ug/Kg	6/26/2015	21:03

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-SB19 (0-4')
Lab Sample ID: 152517-04 **Date Sampled:** 6/18/2015
Matrix: Soil **Date Received:** 6/19/2015

Fluorene	< 1650	ug/Kg	6/26/2015	21:03
Hexachlorobenzene	< 1650	ug/Kg	6/26/2015	21:03
Hexachlorobutadiene	< 1650	ug/Kg	6/26/2015	21:03
Hexachlorocyclopentadiene	< 1650	ug/Kg	6/26/2015	21:03
Hexachloroethane	< 1650	ug/Kg	6/26/2015	21:03
Indeno (1,2,3-cd) pyrene	**4430**	ug/Kg	6/26/2015	21:03
Isophorone	< 1650	ug/Kg	6/26/2015	21:03
Naphthalene	< 1650	ug/Kg	6/26/2015	21:03
Nitrobenzene	< 1650	ug/Kg	6/26/2015	21:03
N-Nitroso-di-n-propylamine	< 1650	ug/Kg	6/26/2015	21:03
N-Nitrosodiphenylamine	< 1650	ug/Kg	6/26/2015	21:03
Pentachlorophenol	< 3310	ug/Kg	6/26/2015	21:03
Phenanthrene	**6040**	ug/Kg	6/26/2015	21:03
Phenol	< 1650	ug/Kg	6/26/2015	21:03
Pyrene	**8180**	ug/Kg	6/26/2015	21:03

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**97.7**	41.6 - 115		6/26/2015	21:03
2-Fluorobiphenyl	**79.9**	35.9 - 103		6/26/2015	21:03
2-Fluorophenol	**47.6**	39.9 - 87.9		6/26/2015	21:03
Nitrobenzene-d5	**60.4**	37.2 - 90.6		6/26/2015	21:03
Phenol-d5	**60.9**	42.3 - 90.6		6/26/2015	21:03
Terphenyl-d14	**95.0**	58.2 - 113		6/26/2015	21:03

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 6/25/2015
Data File: B06089.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 8.18	ug/Kg		6/25/2015	07:19
1,1,2,2-Tetrachloroethane	< 8.18	ug/Kg		6/25/2015	07:19
1,1,2-Trichloroethane	< 8.18	ug/Kg		6/25/2015	07:19
1,1-Dichloroethane	< 8.18	ug/Kg		6/25/2015	07:19

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier:	NA-SB19 (0-4')		
Lab Sample ID:	152517-04	**Date Sampled:**	6/18/2015
Matrix:	Soil	**Date Received:**	6/19/2015

1,1-Dichloroethene	< 8.18	ug/Kg	6/25/2015	07:19
1,2,3-Trichlorobenzene	< 20.4	ug/Kg	6/25/2015	07:19
1,2,4-Trichlorobenzene	< 20.4	ug/Kg	6/25/2015	07:19
1,2,4-Trimethylbenzene	**14.2**	ug/Kg	6/25/2015	07:19
1,2-Dibromo-3-Chloropropane	< 40.9	ug/Kg	6/25/2015	07:19
1,2-Dibromoethane	< 8.18	ug/Kg	6/25/2015	07:19
1,2-Dichlorobenzene	< 8.18	ug/Kg	6/25/2015	07:19
1,2-Dichloroethane	< 8.18	ug/Kg	6/25/2015	07:19
1,2-Dichloropropane	< 8.18	ug/Kg	6/25/2015	07:19
1,3,5-Trimethylbenzene	**18.5**	ug/Kg	6/25/2015	07:19
1,3-Dichlorobenzene	< 8.18	ug/Kg	6/25/2015	07:19
1,4-Dichlorobenzene	< 8.18	ug/Kg	6/25/2015	07:19
1,4-dioxane	< 81.8	ug/Kg	6/25/2015	07:19
2-Butanone	< 40.9	ug/Kg	6/25/2015	07:19
2-Hexanone	< 20.4	ug/Kg	6/25/2015	07:19
4-Methyl-2-pentanone	< 20.4	ug/Kg	6/25/2015	07:19
Acetone	< 40.9	ug/Kg	6/25/2015	07:19
Benzene	< 8.18	ug/Kg	6/25/2015	07:19
Bromochloromethane	< 20.4	ug/Kg	6/25/2015	07:19
Bromodichloromethane	< 8.18	ug/Kg	6/25/2015	07:19
Bromoform	< 20.4	ug/Kg	6/25/2015	07:19
Bromomethane	< 8.18	ug/Kg	6/25/2015	07:19
Carbon disulfide	**18.7**	ug/Kg	6/25/2015	07:19
Carbon Tetrachloride	< 8.18	ug/Kg	6/25/2015	07:19
Chlorobenzene	< 8.18	ug/Kg	6/25/2015	07:19
Chloroethane	< 8.18	ug/Kg	6/25/2015	07:19
Chloroform	< 8.18	ug/Kg	6/25/2015	07:19
Chloromethane	< 8.18	ug/Kg	6/25/2015	07:19
cis-1,2-Dichloroethene	< 8.18	ug/Kg	6/25/2015	07:19
cis-1,3-Dichloropropene	< 8.18	ug/Kg	6/25/2015	07:19
Cyclohexane	< 40.9	ug/Kg	6/25/2015	07:19
Dibromochloromethane	< 8.18	ug/Kg	6/25/2015	07:19

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier:	NA-SB19 (0-4')		
Lab Sample ID:	152517-04	**Date Sampled:**	6/18/2015
Matrix:	Soil	**Date Received:**	6/19/2015

Dichlorodifluoromethane	< 8.18	ug/Kg	6/25/2015	07:19
Ethylbenzene	< 8.18	ug/Kg	6/25/2015	07:19
Freon 113	< 8.18	ug/Kg	6/25/2015	07:19
Isopropylbenzene	< 8.18	ug/Kg	6/25/2015	07:19
m,p-Xylene	< 8.18	ug/Kg	6/25/2015	07:19
Methyl acetate	< 8.18	ug/Kg	6/25/2015	07:19
Methyl tert-butyl Ether	< 8.18	ug/Kg	6/25/2015	07:19
Methylcyclohexane	**13.0**	ug/Kg	6/25/2015	07:19
Methylene chloride	< 20.4	ug/Kg	6/25/2015	07:19
Naphthalene	**49.0**	ug/Kg	6/25/2015	07:19
n-Butylbenzene	< 8.18	ug/Kg	6/25/2015	07:19
n-Propylbenzene	< 8.18	ug/Kg	6/25/2015	07:19
o-Xylene	< 8.18	ug/Kg	6/25/2015	07:19
p-Isopropyltoluene	**16.0**	ug/Kg	6/25/2015	07:19
sec-Butylbenzene	**8.86**	ug/Kg	6/25/2015	07:19
Styrene	< 20.4	ug/Kg	6/25/2015	07:19
tert-Butylbenzene	< 8.18	ug/Kg	6/25/2015	07:19
Tetrachloroethene	< 8.18	ug/Kg	6/25/2015	07:19
Toluene	< 8.18	ug/Kg	6/25/2015	07:19
trans-1,2-Dichloroethene	< 8.18	ug/Kg	6/25/2015	07:19
trans-1,3-Dichloropropene	< 8.18	ug/Kg	6/25/2015	07:19
Trichloroethene	< 8.18	ug/Kg	6/25/2015	07:19
Trichlorofluoromethane	< 8.18	ug/Kg	6/25/2015	07:19
Vinyl chloride	< 8.18	ug/Kg	6/25/2015	07:19

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-SB19 (0-4')

Lab Sample ID: 152517-04 **Date Sampled:** 6/18/2015

Matrix: Soil **Date Received:** 6/19/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**124**	80.6 - 125		6/25/2015 07:19
4-Bromofluorobenzene	**99.3**	86.6 - 111		6/25/2015 07:19
Pentafluorobenzene	**91.3**	90.9 - 107		6/25/2015 07:19
Toluene-D8	**89.1**	90.8 - 109	*	6/25/2015 07:19

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035A

Data File: x24072.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier:	NA-CSB3 (0-4')		
Lab Sample ID:	152517-05	**Date Sampled:**	6/19/2015
Matrix:	Soil	**Date Received:**	6/19/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.237**	mg/Kg		6/23/2015 15:41

Method Reference(s): EPA 7471B
Preparation Date: 6/23/2015
Data File: Hg150623B

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**12.1**	mg/Kg		6/23/2015 19:36
Barium	**92.3**	mg/Kg		6/23/2015 19:36
Cadmium	**0.579**	mg/Kg		6/23/2015 19:36
Chromium	**28.2**	mg/Kg		6/23/2015 19:36
Lead	**75.6**	mg/Kg		6/23/2015 19:36
Selenium	**2.40**	mg/Kg		6/24/2015 18:21
Silver	**1.15**	mg/Kg		6/23/2015 19:36

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 6/23/2015
Data File: 062315b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0310	mg/Kg		6/30/2015 03:29
PCB-1221	< 0.0310	mg/Kg		6/30/2015 03:29
PCB-1232	< 0.0310	mg/Kg		6/30/2015 03:29
PCB-1242	< 0.0310	mg/Kg		6/30/2015 03:29
PCB-1248	< 0.0310	mg/Kg		6/30/2015 03:29
PCB-1254	**0.0339**	mg/Kg		6/30/2015 03:29
PCB-1260	< 0.0310	mg/Kg		6/30/2015 03:29
PCB-1262	< 0.0310	mg/Kg		6/30/2015 03:29
PCB-1268	< 0.0310	mg/Kg		6/30/2015 03:29

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Tuesday, June 30, 2015

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-CSB3 (0-4')
Lab Sample ID: 152517-05 **Date Sampled:** 6/19/2015
Matrix: Soil **Date Received:** 6/19/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**78.6**	30.5 - 159		6/30/2015 03:29
Tetrachloro-m-xylene	**65.3**	23.2 - 144		6/30/2015 03:29

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 6/25/2015

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.10	ug/Kg		6/25/2015 18:41
4,4-DDE	< 3.10	ug/Kg		6/25/2015 18:41
4,4-DDT	< 3.10	ug/Kg		6/25/2015 18:41
Aldrin	< 3.10	ug/Kg		6/25/2015 18:41
alpha-BHC	**3.27**	ug/Kg		6/25/2015 18:41
beta-BHC	**6.63**	ug/Kg	P	6/25/2015 18:41
cis-Chlordane	**5.82**	ug/Kg		6/25/2015 18:41
delta-BHC	< 3.10	ug/Kg		6/25/2015 18:41
Dieldrin	< 3.10	ug/Kg		6/25/2015 18:41
Endosulfan I	< 3.10	ug/Kg		6/25/2015 18:41
Endosulfan II	< 3.10	ug/Kg		6/25/2015 18:41
Endosulfan Sulfate	< 3.10	ug/Kg		6/25/2015 18:41
Endrin	< 3.10	ug/Kg		6/25/2015 18:41
Endrin Aldehyde	< 3.10	ug/Kg		6/25/2015 18:41
Endrin Ketone	< 3.10	ug/Kg		6/25/2015 18:41
gamma-BHC (Lindane)	< 3.10	ug/Kg		6/25/2015 18:41
Heptachlor	< 3.10	ug/Kg		6/25/2015 18:41
Heptachlor Epoxide	< 3.10	ug/Kg		6/25/2015 18:41
Methoxychlor	**23.1**	ug/Kg	P	6/25/2015 18:41
Toxaphene	< 31.0	ug/Kg		6/25/2015 18:41
trans-Chlordane	< 3.10	ug/Kg		6/25/2015 18:41

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-CSB3 (0-4')
Lab Sample ID: 152517-05 **Date Sampled:** 6/19/2015
Matrix: Soil **Date Received:** 6/19/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**136**	32.1 - 117.1	*	6/25/2015 18:41
Tetrachloro-m-xylene (1)	**64.1**	28.3 - 115.3		6/25/2015 18:41

Method Reference(s): EPA 8081B
EPA 3550C
Preparation Date: 6/25/2015

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 308	ug/Kg		6/26/2015 21:31
1,2,4,5-Tetrachlorobenzene	< 308	ug/Kg		6/26/2015 21:31
1,2,4-Trichlorobenzene	< 308	ug/Kg		6/26/2015 21:31
1,2-Dichlorobenzene	< 308	ug/Kg		6/26/2015 21:31
1,3-Dichlorobenzene	< 308	ug/Kg		6/26/2015 21:31
1,4-Dichlorobenzene	< 308	ug/Kg		6/26/2015 21:31
2,3,4,6-Tetrachlorophenol	< 308	ug/Kg		6/26/2015 21:31
2,4,5-Trichlorophenol	< 615	ug/Kg		6/26/2015 21:31
2,4,6-Trichlorophenol	< 308	ug/Kg		6/26/2015 21:31
2,4-Dichlorophenol	< 308	ug/Kg		6/26/2015 21:31
2,4-Dimethylphenol	< 308	ug/Kg		6/26/2015 21:31
2,4-Dinitrophenol	< 615	ug/Kg		6/26/2015 21:31
2,4-Dinitrotoluene	< 308	ug/Kg		6/26/2015 21:31
2,6-Dinitrotoluene	< 308	ug/Kg		6/26/2015 21:31
2-Chloronaphthalene	< 308	ug/Kg		6/26/2015 21:31
2-Chlorophenol	< 308	ug/Kg		6/26/2015 21:31
2-Methylnapthalene	< 308	ug/Kg		6/26/2015 21:31
2-Methylphenol	< 308	ug/Kg		6/26/2015 21:31
2-Nitroaniline	< 615	ug/Kg		6/26/2015 21:31
2-Nitrophenol	< 308	ug/Kg		6/26/2015 21:31
3&4-Methylphenol	< 308	ug/Kg		6/26/2015 21:31
3,3'-Dichlorobenzidine	< 308	ug/Kg		6/26/2015 21:31
3-Nitroaniline	< 615	ug/Kg		6/26/2015 21:31
4,6-Dinitro-2-methylphenol	< 615	ug/Kg		6/26/2015 21:31

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier:	NA-CSB3 (0-4')		
Lab Sample ID:	152517-05	**Date Sampled:**	6/19/2015
Matrix:	Soil	**Date Received:**	6/19/2015

4-Bromophenyl phenyl ether	< 308	ug/Kg	6/26/2015 21:31
4-Chloro-3-methylphenol	< 308	ug/Kg	6/26/2015 21:31
4-Chloroaniline	< 308	ug/Kg	6/26/2015 21:31
4-Chlorophenyl phenyl ether	< 308	ug/Kg	6/26/2015 21:31
4-Nitroaniline	< 615	ug/Kg	6/26/2015 21:31
4-Nitrophenol	< 615	ug/Kg	6/26/2015 21:31
Acenaphthene	< 308	ug/Kg	6/26/2015 21:31
Acenaphthylene	< 308	ug/Kg	6/26/2015 21:31
Acetophenone	< 308	ug/Kg	6/26/2015 21:31
Anthracene	< 308	ug/Kg	6/26/2015 21:31
Atrazine	< 308	ug/Kg	6/26/2015 21:31
Benzaldehyde	< 308	ug/Kg	6/26/2015 21:31
Benzo (a) anthracene	**1680**	ug/Kg	6/26/2015 21:31
Benzo (a) pyrene	**2300**	ug/Kg	6/26/2015 21:31
Benzo (b) fluoranthene	**3340**	ug/Kg	6/26/2015 21:31
Benzo (g,h,i) perylene	**2510**	ug/Kg	6/26/2015 21:31
Benzo (k) fluoranthene	**2090**	ug/Kg	6/26/2015 21:31
Bis (2-chloroethoxy) methane	< 308	ug/Kg	6/26/2015 21:31
Bis (2-chloroethyl) ether	< 308	ug/Kg	6/26/2015 21:31
Bis (2-chloroisopropyl) ether	< 308	ug/Kg	6/26/2015 21:31
Bis (2-ethylhexyl) phthalate	< 308	ug/Kg	6/26/2015 21:31
Butylbenzylphthalate	< 308	ug/Kg	6/26/2015 21:31
Caprolactam	< 308	ug/Kg	6/26/2015 21:31
Carbazole	< 308	ug/Kg	6/26/2015 21:31
Chrysene	**2190**	ug/Kg	6/26/2015 21:31
Dibenz (a,h) anthracene	**959**	ug/Kg	6/26/2015 21:31
Dibenzofuran	< 308	ug/Kg	6/26/2015 21:31
Diethyl phthalate	< 308	ug/Kg	6/26/2015 21:31
Dimethyl phthalate	< 615	ug/Kg	6/26/2015 21:31
Di-n-butyl phthalate	< 308	ug/Kg	6/26/2015 21:31
Di-n-octylphthalate	< 308	ug/Kg	6/26/2015 21:31
Fluoranthene	**2530**	ug/Kg	6/26/2015 21:31

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-CSB3 (0-4')
Lab Sample ID: 152517-05 **Date Sampled:** 6/19/2015
Matrix: Soil **Date Received:** 6/19/2015

Fluorene	< 308	ug/Kg	6/26/2015	21:31
Hexachlorobenzene	< 308	ug/Kg	6/26/2015	21:31
Hexachlorobutadiene	< 308	ug/Kg	6/26/2015	21:31
Hexachlorocyclopentadiene	< 308	ug/Kg	6/26/2015	21:31
Hexachloroethane	< 308	ug/Kg	6/26/2015	21:31
Indeno (1,2,3-cd) pyrene	**3520**	ug/Kg	6/26/2015	21:31
Isophorone	< 308	ug/Kg	6/26/2015	21:31
Naphthalene	< 308	ug/Kg	6/26/2015	21:31
Nitrobenzene	< 308	ug/Kg	6/26/2015	21:31
N-Nitroso-di-n-propylamine	< 308	ug/Kg	6/26/2015	21:31
N-Nitrosodiphenylamine	< 308	ug/Kg	6/26/2015	21:31
Pentachlorophenol	< 615	ug/Kg	6/26/2015	21:31
Phenanthrene	**874**	ug/Kg	6/26/2015	21:31
Phenol	< 308	ug/Kg	6/26/2015	21:31
Pyrene	**2270**	ug/Kg	6/26/2015	21:31

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**98.7**	41.6 - 115		6/26/2015	21:31
2-Fluorobiphenyl	**81.8**	35.9 - 103		6/26/2015	21:31
2-Fluorophenol	**70.2**	39.9 - 87.9		6/26/2015	21:31
Nitrobenzene-d5	**72.3**	37.2 - 90.6		6/26/2015	21:31
Phenol-d5	**78.7**	42.3 - 90.6		6/26/2015	21:31
Terphenyl-d14	**89.8**	58.2 - 113		6/26/2015	21:31

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 6/25/2015
Data File: B06090.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 7.22	ug/Kg		6/25/2015	06:54
1,1,2,2-Tetrachloroethane	< 7.22	ug/Kg		6/25/2015	06:54
1,1,2-Trichloroethane	< 7.22	ug/Kg		6/25/2015	06:54
1,1-Dichloroethane	< 7.22	ug/Kg		6/25/2015	06:54

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier:	NA-CSB3 (0-4')		
Lab Sample ID:	152517-05	**Date Sampled:**	6/19/2015
Matrix:	Soil	**Date Received:**	6/19/2015

1,1-Dichloroethene	< 7.22	ug/Kg	6/25/2015	06:54
1,2,3-Trichlorobenzene	< 18.1	ug/Kg	6/25/2015	06:54
1,2,4-Trichlorobenzene	< 18.1	ug/Kg	6/25/2015	06:54
1,2,4-Trimethylbenzene	< 7.22	ug/Kg	6/25/2015	06:54
1,2-Dibromo-3-Chloropropane	< 36.1	ug/Kg	6/25/2015	06:54
1,2-Dibromoethane	< 7.22	ug/Kg	6/25/2015	06:54
1,2-Dichlorobenzene	< 7.22	ug/Kg	6/25/2015	06:54
1,2-Dichloroethane	< 7.22	ug/Kg	6/25/2015	06:54
1,2-Dichloropropane	< 7.22	ug/Kg	6/25/2015	06:54
1,3,5-Trimethylbenzene	< 7.22	ug/Kg	6/25/2015	06:54
1,3-Dichlorobenzene	< 7.22	ug/Kg	6/25/2015	06:54
1,4-Dichlorobenzene	< 7.22	ug/Kg	6/25/2015	06:54
1,4-dioxane	< 72.2	ug/Kg	6/25/2015	06:54
2-Butanone	< 36.1	ug/Kg	6/25/2015	06:54
2-Hexanone	< 18.1	ug/Kg	6/25/2015	06:54
4-Methyl-2-pentanone	< 18.1	ug/Kg	6/25/2015	06:54
Acetone	< 36.1	ug/Kg	6/25/2015	06:54
Benzene	< 7.22	ug/Kg	6/25/2015	06:54
Bromochloromethane	< 18.1	ug/Kg	6/25/2015	06:54
Bromodichloromethane	< 7.22	ug/Kg	6/25/2015	06:54
Bromoform	< 18.1	ug/Kg	6/25/2015	06:54
Bromomethane	< 7.22	ug/Kg	6/25/2015	06:54
Carbon disulfide	< 7.22	ug/Kg	6/25/2015	06:54
Carbon Tetrachloride	< 7.22	ug/Kg	6/25/2015	06:54
Chlorobenzene	< 7.22	ug/Kg	6/25/2015	06:54
Chloroethane	< 7.22	ug/Kg	6/25/2015	06:54
Chloroform	< 7.22	ug/Kg	6/25/2015	06:54
Chloromethane	< 7.22	ug/Kg	6/25/2015	06:54
cis-1,2-Dichloroethene	< 7.22	ug/Kg	6/25/2015	06:54
cis-1,3-Dichloropropene	< 7.22	ug/Kg	6/25/2015	06:54
Cyclohexane	< 36.1	ug/Kg	6/25/2015	06:54
Dibromochloromethane	< 7.22	ug/Kg	6/25/2015	06:54

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-CSB3 (0-4')
Lab Sample ID: 152517-05 **Date Sampled:** 6/19/2015
Matrix: Soil **Date Received:** 6/19/2015

Dichlorodifluoromethane	< 7.22	ug/Kg	6/25/2015	06:54
Ethylbenzene	< 7.22	ug/Kg	6/25/2015	06:54
Freon 113	< 7.22	ug/Kg	6/25/2015	06:54
Isopropylbenzene	< 7.22	ug/Kg	6/25/2015	06:54
m,p-Xylene	< 7.22	ug/Kg	6/25/2015	06:54
Methyl acetate	< 7.22	ug/Kg	6/25/2015	06:54
Methyl tert-butyl Ether	< 7.22	ug/Kg	6/25/2015	06:54
Methylcyclohexane	**8.42**	ug/Kg	6/25/2015	06:54
Methylene chloride	**33.9**	ug/Kg	6/25/2015	06:54
Naphthalene	< 18.1	ug/Kg	6/25/2015	06:54
n-Butylbenzene	< 7.22	ug/Kg	6/25/2015	06:54
n-Propylbenzene	< 7.22	ug/Kg	6/25/2015	06:54
o-Xylene	< 7.22	ug/Kg	6/25/2015	06:54
p-Isopropyltoluene	< 7.22	ug/Kg	6/25/2015	06:54
sec-Butylbenzene	< 7.22	ug/Kg	6/25/2015	06:54
Styrene	< 18.1	ug/Kg	6/25/2015	06:54
tert-Butylbenzene	< 7.22	ug/Kg	6/25/2015	06:54
Tetrachloroethene	< 7.22	ug/Kg	6/25/2015	06:54
Toluene	< 7.22	ug/Kg	6/25/2015	06:54
trans-1,2-Dichloroethene	< 7.22	ug/Kg	6/25/2015	06:54
trans-1,3-Dichloropropene	< 7.22	ug/Kg	6/25/2015	06:54
Trichloroethene	**11.1**	ug/Kg	6/25/2015	06:54
Trichlorofluoromethane	< 7.22	ug/Kg	6/25/2015	06:54
Vinyl chloride	< 7.22	ug/Kg	6/25/2015	06:54

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-CSB3 (0-4')
Lab Sample ID: 152517-05 **Date Sampled:** 6/19/2015
Matrix: Soil **Date Received:** 6/19/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**123**	80.6 - 125		6/25/2015 06:54
4-Bromofluorobenzene	**79.2**	86.6 - 111	*	6/25/2015 06:54
Pentafluorobenzene	**91.9**	90.9 - 107		6/25/2015 06:54
Toluene-D8	**90.4**	90.8 - 109	*	6/25/2015 06:54

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035A

Data File: x24071.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier:	NA-DSB2 (0-4')		
Lab Sample ID:	152517-06	**Date Sampled:**	6/19/2015
Matrix:	Soil	**Date Received:**	6/19/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.139**	mg/Kg		6/23/2015 15:44

Method Reference(s): EPA 7471B
Preparation Date: 6/23/2015
Data File: Hg150623B

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**12.7**	mg/Kg		6/23/2015 19:40
Barium	**69.9**	mg/Kg		6/23/2015 19:40
Cadmium	**1.33**	mg/Kg		6/23/2015 19:40
Chromium	**67.5**	mg/Kg		6/23/2015 19:40
Lead	**193**	mg/Kg		6/23/2015 19:40
Selenium	**3.17**	mg/Kg		6/24/2015 18:25
Silver	**4.53**	mg/Kg		6/23/2015 19:40

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 6/23/2015
Data File: 062315b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0326	mg/Kg		6/26/2015 09:23
PCB-1221	< 0.0326	mg/Kg		6/26/2015 09:23
PCB-1232	< 0.0326	mg/Kg		6/26/2015 09:23
PCB-1242	< 0.0326	mg/Kg		6/26/2015 09:23
PCB-1248	< 0.0326	mg/Kg		6/26/2015 09:23
PCB-1254	< 0.0326	mg/Kg		6/26/2015 09:23
PCB-1260	< 0.0326	mg/Kg		6/26/2015 09:23
PCB-1262	< 0.0326	mg/Kg		6/26/2015 09:23
PCB-1268	< 0.0326	mg/Kg		6/26/2015 09:23

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-DSB2 (0-4')
Lab Sample ID: 152517-06 **Date Sampled:** 6/19/2015
Matrix: Soil **Date Received:** 6/19/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**53.3**	30.5 - 159		6/26/2015 09:23
Tetrachloro-m-xylene	**38.3**	23.2 - 144		6/26/2015 09:23

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 6/25/2015

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.26	ug/Kg		6/25/2015 18:54
4,4-DDE	< 3.26	ug/Kg		6/25/2015 18:54
4,4-DDT	< 3.26	ug/Kg		6/25/2015 18:54
Aldrin	< 3.26	ug/Kg		6/25/2015 18:54
alpha-BHC	< 3.26	ug/Kg		6/25/2015 18:54
beta-BHC	**14.8**	ug/Kg		6/25/2015 18:54
cis-Chlordane	**9.53**	ug/Kg		6/25/2015 18:54
delta-BHC	< 3.26	ug/Kg		6/25/2015 18:54
Dieldrin	< 3.26	ug/Kg		6/25/2015 18:54
Endosulfan I	< 3.26	ug/Kg		6/25/2015 18:54
Endosulfan II	< 3.26	ug/Kg		6/25/2015 18:54
Endosulfan Sulfate	**12.4**	ug/Kg	P	6/25/2015 18:54
Endrin	< 3.26	ug/Kg		6/25/2015 18:54
Endrin Aldehyde	< 3.26	ug/Kg		6/25/2015 18:54
Endrin Ketone	< 3.26	ug/Kg		6/25/2015 18:54
gamma-BHC (Lindane)	< 3.26	ug/Kg		6/25/2015 18:54
Heptachlor	< 3.26	ug/Kg		6/25/2015 18:54
Heptachlor Epoxide	< 3.26	ug/Kg		6/25/2015 18:54
Methoxychlor	**20.0**	ug/Kg	P	6/25/2015 18:54
Toxaphene	< 32.6	ug/Kg		6/25/2015 18:54
trans-Chlordane	< 3.26	ug/Kg		6/25/2015 18:54

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-DSB2 (0-4')
Lab Sample ID: 152517-06 **Date Sampled:** 6/19/2015
Matrix: Soil **Date Received:** 6/19/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**79.1**	32.1 - 117.1		6/25/2015 18:54
Tetrachloro-m-xylene (1)	**42.6**	28.3 - 115.3		6/25/2015 18:54

Method Reference(s): EPA 8081B
EPA 3550C
Preparation Date: 6/25/2015

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 326	ug/Kg		6/26/2015 21:59
1,2,4,5-Tetrachlorobenzene	< 326	ug/Kg		6/26/2015 21:59
1,2,4-Trichlorobenzene	< 326	ug/Kg		6/26/2015 21:59
1,2-Dichlorobenzene	< 326	ug/Kg		6/26/2015 21:59
1,3-Dichlorobenzene	< 326	ug/Kg		6/26/2015 21:59
1,4-Dichlorobenzene	< 326	ug/Kg		6/26/2015 21:59
2,3,4,6-Tetrachlorophenol	< 326	ug/Kg		6/26/2015 21:59
2,4,5-Trichlorophenol	< 653	ug/Kg		6/26/2015 21:59
2,4,6-Trichlorophenol	< 326	ug/Kg		6/26/2015 21:59
2,4-Dichlorophenol	< 326	ug/Kg		6/26/2015 21:59
2,4-Dimethylphenol	< 326	ug/Kg		6/26/2015 21:59
2,4-Dinitrophenol	< 653	ug/Kg		6/26/2015 21:59
2,4-Dinitrotoluene	< 326	ug/Kg		6/26/2015 21:59
2,6-Dinitrotoluene	< 326	ug/Kg		6/26/2015 21:59
2-Chloronaphthalene	< 326	ug/Kg		6/26/2015 21:59
2-Chlorophenol	< 326	ug/Kg		6/26/2015 21:59
2-Methylnapthalene	< 326	ug/Kg		6/26/2015 21:59
2-Methylphenol	< 326	ug/Kg		6/26/2015 21:59
2-Nitroaniline	< 653	ug/Kg		6/26/2015 21:59
2-Nitrophenol	< 326	ug/Kg		6/26/2015 21:59
3&4-Methylphenol	< 326	ug/Kg		6/26/2015 21:59
3,3'-Dichlorobenzidine	< 326	ug/Kg		6/26/2015 21:59
3-Nitroaniline	< 653	ug/Kg		6/26/2015 21:59
4,6-Dinitro-2-methylphenol	< 653	ug/Kg		6/26/2015 21:59

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier:	NA-DSB2 (0-4')		
Lab Sample ID:	152517-06	**Date Sampled:**	6/19/2015
Matrix:	Soil	**Date Received:**	6/19/2015

4-Bromophenyl phenyl ether	< 326	ug/Kg	6/26/2015 21:59
4-Chloro-3-methylphenol	< 326	ug/Kg	6/26/2015 21:59
4-Chloroaniline	< 326	ug/Kg	6/26/2015 21:59
4-Chlorophenyl phenyl ether	< 326	ug/Kg	6/26/2015 21:59
4-Nitroaniline	< 653	ug/Kg	6/26/2015 21:59
4-Nitrophenol	< 653	ug/Kg	6/26/2015 21:59
Acenaphthene	< 326	ug/Kg	6/26/2015 21:59
Acenaphthylene	< 326	ug/Kg	6/26/2015 21:59
Acetophenone	< 326	ug/Kg	6/26/2015 21:59
Anthracene	**711**	ug/Kg	6/26/2015 21:59
Atrazine	< 326	ug/Kg	6/26/2015 21:59
Benzaldehyde	< 326	ug/Kg	6/26/2015 21:59
Benzo (a) anthracene	**1430**	ug/Kg	6/26/2015 21:59
Benzo (a) pyrene	**1270**	ug/Kg	6/26/2015 21:59
Benzo (b) fluoranthene	**1560**	ug/Kg	6/26/2015 21:59
Benzo (g,h,i) perylene	**753**	ug/Kg	6/26/2015 21:59
Benzo (k) fluoranthene	**878**	ug/Kg	6/26/2015 21:59
Bis (2-chloroethoxy) methane	< 326	ug/Kg	6/26/2015 21:59
Bis (2-chloroethyl) ether	< 326	ug/Kg	6/26/2015 21:59
Bis (2-chloroisopropyl) ether	< 326	ug/Kg	6/26/2015 21:59
Bis (2-ethylhexyl) phthalate	< 326	ug/Kg	6/26/2015 21:59
Butylbenzylphthalate	< 326	ug/Kg	6/26/2015 21:59
Caprolactam	< 326	ug/Kg	6/26/2015 21:59
Carbazole	**328**	ug/Kg	6/26/2015 21:59
Chrysene	**1440**	ug/Kg	6/26/2015 21:59
Dibenz (a,h) anthracene	**387**	ug/Kg	6/26/2015 21:59
Dibenzofuran	< 326	ug/Kg	6/26/2015 21:59
Diethyl phthalate	< 326	ug/Kg	6/26/2015 21:59
Dimethyl phthalate	< 653	ug/Kg	6/26/2015 21:59
Di-n-butyl phthalate	< 326	ug/Kg	6/26/2015 21:59
Di-n-octylphthalate	< 326	ug/Kg	6/26/2015 21:59
Fluoranthene	**3230**	ug/Kg	6/26/2015 21:59

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-DSB2 (0-4')
Lab Sample ID: 152517-06 **Date Sampled:** 6/19/2015
Matrix: Soil **Date Received:** 6/19/2015

Fluorene	**334**	ug/Kg		6/26/2015	21:59
Hexachlorobenzene	< 326	ug/Kg		6/26/2015	21:59
Hexachlorobutadiene	< 326	ug/Kg		6/26/2015	21:59
Hexachlorocyclopentadiene	< 326	ug/Kg		6/26/2015	21:59
Hexachloroethane	< 326	ug/Kg		6/26/2015	21:59
Indeno (1,2,3-cd) pyrene	**1230**	ug/Kg		6/26/2015	21:59
Isophorone	< 326	ug/Kg		6/26/2015	21:59
Naphthalene	< 326	ug/Kg		6/26/2015	21:59
Nitrobenzene	< 326	ug/Kg		6/26/2015	21:59
N-Nitroso-di-n-propylamine	< 326	ug/Kg		6/26/2015	21:59
N-Nitrosodiphenylamine	< 326	ug/Kg		6/26/2015	21:59
Pentachlorophenol	< 653	ug/Kg		6/26/2015	21:59
Phenanthrene	**2870**	ug/Kg		6/26/2015	21:59
Phenol	< 326	ug/Kg		6/26/2015	21:59
Pyrene	**2470**	ug/Kg		6/26/2015	21:59

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**58.0**	41.6 - 115		6/26/2015	21:59
2-Fluorobiphenyl	**43.8**	35.9 - 103		6/26/2015	21:59
2-Fluorophenol	**35.6**	39.9 - 87.9	*	6/26/2015	21:59
Nitrobenzene-d5	**33.7**	37.2 - 90.6	*	6/26/2015	21:59
Phenol-d5	**41.6**	42.3 - 90.6	*	6/26/2015	21:59
Terphenyl-d14	**53.4**	58.2 - 113	*	6/26/2015	21:59

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 6/25/2015
Data File: B06091.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 8.40	ug/Kg		6/25/2015	06:30
1,1,2,2-Tetrachloroethane	< 8.40	ug/Kg		6/25/2015	06:30
1,1,2-Trichloroethane	< 8.40	ug/Kg		6/25/2015	06:30
1,1-Dichloroethane	< 8.40	ug/Kg		6/25/2015	06:30

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier:	NA-DSB2 (0-4')		
Lab Sample ID:	152517-06	**Date Sampled:**	6/19/2015
Matrix:	Soil	**Date Received:**	6/19/2015

1,1-Dichloroethene	< 8.40	ug/Kg	6/25/2015	06:30
1,2,3-Trichlorobenzene	< 21.0	ug/Kg	6/25/2015	06:30
1,2,4-Trichlorobenzene	< 21.0	ug/Kg	6/25/2015	06:30
1,2,4-Trimethylbenzene	< 8.40	ug/Kg	6/25/2015	06:30
1,2-Dibromo-3-Chloropropane	< 42.0	ug/Kg	6/25/2015	06:30
1,2-Dibromoethane	< 8.40	ug/Kg	6/25/2015	06:30
1,2-Dichlorobenzene	< 8.40	ug/Kg	6/25/2015	06:30
1,2-Dichloroethane	< 8.40	ug/Kg	6/25/2015	06:30
1,2-Dichloropropane	< 8.40	ug/Kg	6/25/2015	06:30
1,3,5-Trimethylbenzene	< 8.40	ug/Kg	6/25/2015	06:30
1,3-Dichlorobenzene	< 8.40	ug/Kg	6/25/2015	06:30
1,4-Dichlorobenzene	< 8.40	ug/Kg	6/25/2015	06:30
1,4-dioxane	< 84.0	ug/Kg	6/25/2015	06:30
2-Butanone	< 42.0	ug/Kg	6/25/2015	06:30
2-Hexanone	< 21.0	ug/Kg	6/25/2015	06:30
4-Methyl-2-pentanone	< 21.0	ug/Kg	6/25/2015	06:30
Acetone	< 42.0	ug/Kg	6/25/2015	06:30
Benzene	< 8.40	ug/Kg	6/25/2015	06:30
Bromochloromethane	< 21.0	ug/Kg	6/25/2015	06:30
Bromodichloromethane	< 8.40	ug/Kg	6/25/2015	06:30
Bromoform	< 21.0	ug/Kg	6/25/2015	06:30
Bromomethane	< 8.40	ug/Kg	6/25/2015	06:30
Carbon disulfide	< 8.40	ug/Kg	6/25/2015	06:30
Carbon Tetrachloride	< 8.40	ug/Kg	6/25/2015	06:30
Chlorobenzene	< 8.40	ug/Kg	6/25/2015	06:30
Chloroethane	< 8.40	ug/Kg	6/25/2015	06:30
Chloroform	< 8.40	ug/Kg	6/25/2015	06:30
Chloromethane	< 8.40	ug/Kg	6/25/2015	06:30
cis-1,2-Dichloroethene	< 8.40	ug/Kg	6/25/2015	06:30
cis-1,3-Dichloropropene	< 8.40	ug/Kg	6/25/2015	06:30
Cyclohexane	< 42.0	ug/Kg	6/25/2015	06:30
Dibromochloromethane	< 8.40	ug/Kg	6/25/2015	06:30

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-DSB2 (0-4')
Lab Sample ID: 152517-06 **Date Sampled:** 6/19/2015
Matrix: Soil **Date Received:** 6/19/2015

Dichlorodifluoromethane	< 8.40	ug/Kg	6/25/2015	06:30
Ethylbenzene	< 8.40	ug/Kg	6/25/2015	06:30
Freon 113	< 8.40	ug/Kg	6/25/2015	06:30
Isopropylbenzene	< 8.40	ug/Kg	6/25/2015	06:30
m,p-Xylene	< 8.40	ug/Kg	6/25/2015	06:30
Methyl acetate	< 8.40	ug/Kg	6/25/2015	06:30
Methyl tert-butyl Ether	< 8.40	ug/Kg	6/25/2015	06:30
Methylcyclohexane	< 8.40	ug/Kg	6/25/2015	06:30
Methylene chloride	< 21.0	ug/Kg	6/25/2015	06:30
Naphthalene	< 21.0	ug/Kg	6/25/2015	06:30
n-Butylbenzene	< 8.40	ug/Kg	6/25/2015	06:30
n-Propylbenzene	< 8.40	ug/Kg	6/25/2015	06:30
o-Xylene	< 8.40	ug/Kg	6/25/2015	06:30
p-Isopropyltoluene	< 8.40	ug/Kg	6/25/2015	06:30
sec-Butylbenzene	< 8.40	ug/Kg	6/25/2015	06:30
Styrene	< 21.0	ug/Kg	6/25/2015	06:30
tert-Butylbenzene	< 8.40	ug/Kg	6/25/2015	06:30
Tetrachloroethene	< 8.40	ug/Kg	6/25/2015	06:30
Toluene	< 8.40	ug/Kg	6/25/2015	06:30
trans-1,2-Dichloroethene	< 8.40	ug/Kg	6/25/2015	06:30
trans-1,3-Dichloropropene	< 8.40	ug/Kg	6/25/2015	06:30
Trichloroethene	< 8.40	ug/Kg	6/25/2015	06:30
Trichlorofluoromethane	< 8.40	ug/Kg	6/25/2015	06:30
Vinyl chloride	< 8.40	ug/Kg	6/25/2015	06:30

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-DSB2 (0-4')

Lab Sample ID: 152517-06 **Date Sampled:** 6/19/2015

Matrix: Soil **Date Received:** 6/19/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**124**	80.6 - 125		6/25/2015 06:30
4-Bromofluorobenzene	**97.8**	86.6 - 111		6/25/2015 06:30
Pentafluorobenzene	**95.3**	90.9 - 107		6/25/2015 06:30
Toluene-D8	**89.3**	90.8 - 109	*	6/25/2015 06:30

Method Reference(s): EPA 8260C
EPA 5035A

Data File: x24070.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier:	NA-DSD1		
Lab Sample ID:	152517-07	**Date Sampled:**	6/19/2015
Matrix:	Soil	**Date Received:**	6/19/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.192**	mg/Kg		6/23/2015 15:48

Method Reference(s): EPA 7471B
Preparation Date: 6/23/2015
Data File: Hg150623B

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**52.2**	mg/Kg		6/23/2015 19:43
Barium	**412**	mg/Kg		6/23/2015 19:43
Cadmium	**15.0**	mg/Kg		6/23/2015 19:43
Chromium	**270**	mg/Kg		6/23/2015 19:43
Lead	**1630**	mg/Kg		6/23/2015 19:43
Selenium	**7.65**	mg/Kg		6/23/2015 19:43
Silver	**6.53**	mg/Kg		6/23/2015 19:43

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 6/23/2015
Data File: 062315b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0389	mg/Kg		6/30/2015 03:53
PCB-1221	< 0.0389	mg/Kg		6/30/2015 03:53
PCB-1232	< 0.0389	mg/Kg		6/30/2015 03:53
PCB-1242	< 0.0389	mg/Kg		6/30/2015 03:53
PCB-1248	< 0.0389	mg/Kg		6/30/2015 03:53
PCB-1254	< 0.0389	mg/Kg		6/30/2015 03:53
PCB-1260	< 0.0389	mg/Kg		6/30/2015 03:53
PCB-1262	< 0.0389	mg/Kg		6/30/2015 03:53
PCB-1268	< 0.0389	mg/Kg		6/30/2015 03:53

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-DSD1
Lab Sample ID: 152517-07 **Date Sampled:** 6/19/2015
Matrix: Soil **Date Received:** 6/19/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**57.2**	30.5 - 159		6/30/2015 03:53
Tetrachloro-m-xylene	**43.1**	23.2 - 144		6/30/2015 03:53

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 6/25/2015

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	**50.3**	ug/Kg	P	6/25/2015 19:21
4,4-DDE	**29.4**	ug/Kg	P	6/25/2015 19:21
4,4-DDT	**108**	ug/Kg		6/25/2015 19:21
Aldrin	< 3.89	ug/Kg		6/25/2015 19:21
alpha-BHC	**10.8**	ug/Kg	P	6/25/2015 19:21
beta-BHC	< 3.89	ug/Kg		6/25/2015 19:21
cis-Chlordane	**4.32**	ug/Kg	P	6/25/2015 19:21
delta-BHC	**5.43**	ug/Kg	P	6/25/2015 19:21
Dieldrin	**4.11**	ug/Kg	P	6/25/2015 19:21
Endosulfan I	< 3.89	ug/Kg		6/25/2015 19:21
Endosulfan II	**7.79**	ug/Kg	P	6/25/2015 19:21
Endosulfan Sulfate	**9.23**	ug/Kg		6/25/2015 19:21
Endrin	< 3.89	ug/Kg		6/25/2015 19:21
Endrin Aldehyde	**5.50**	ug/Kg	P	6/25/2015 19:21
Endrin Ketone	**13.2**	ug/Kg		6/25/2015 19:21
gamma-BHC (Lindane)	**4.95**	ug/Kg	P	6/25/2015 19:21
Heptachlor	< 3.89	ug/Kg		6/25/2015 19:21
Heptachlor Epoxide	< 3.89	ug/Kg		6/25/2015 19:21
Methoxychlor	**110**	ug/Kg	P	6/25/2015 19:21
Toxaphene	< 38.9	ug/Kg		6/25/2015 19:21
trans-Chlordane	**12.8**	ug/Kg		6/25/2015 19:21

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-DSD1
Lab Sample ID: 152517-07 **Date Sampled:** 6/19/2015
Matrix: Soil **Date Received:** 6/19/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**65.6**	32.1 - 117.1		6/25/2015 19:21
Tetrachloro-m-xylene (1)	**58.5**	28.3 - 115.3		6/25/2015 19:21

Method Reference(s): EPA 8081B
EPA 3550C
Preparation Date: 6/25/2015

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 1940	ug/Kg		6/26/2015 22:28
1,2,4,5-Tetrachlorobenzene	< 1940	ug/Kg		6/26/2015 22:28
1,2,4-Trichlorobenzene	< 1940	ug/Kg		6/26/2015 22:28
1,2-Dichlorobenzene	< 1940	ug/Kg		6/26/2015 22:28
1,3-Dichlorobenzene	< 1940	ug/Kg		6/26/2015 22:28
1,4-Dichlorobenzene	< 1940	ug/Kg		6/26/2015 22:28
2,3,4,6-Tetrachlorophenol	< 1940	ug/Kg		6/26/2015 22:28
2,4,5-Trichlorophenol	< 3870	ug/Kg		6/26/2015 22:28
2,4,6-Trichlorophenol	< 1940	ug/Kg		6/26/2015 22:28
2,4-Dichlorophenol	< 1940	ug/Kg		6/26/2015 22:28
2,4-Dimethylphenol	< 1940	ug/Kg		6/26/2015 22:28
2,4-Dinitrophenol	< 3870	ug/Kg		6/26/2015 22:28
2,4-Dinitrotoluene	< 1940	ug/Kg		6/26/2015 22:28
2,6-Dinitrotoluene	< 1940	ug/Kg		6/26/2015 22:28
2-Chloronaphthalene	< 1940	ug/Kg		6/26/2015 22:28
2-Chlorophenol	< 1940	ug/Kg		6/26/2015 22:28
2-Methylnapthalene	< 1940	ug/Kg		6/26/2015 22:28
2-Methylphenol	< 1940	ug/Kg		6/26/2015 22:28
2-Nitroaniline	< 3870	ug/Kg		6/26/2015 22:28
2-Nitrophenol	< 1940	ug/Kg		6/26/2015 22:28
3&4-Methylphenol	< 1940	ug/Kg		6/26/2015 22:28
3,3'-Dichlorobenzidine	< 1940	ug/Kg		6/26/2015 22:28
3-Nitroaniline	< 3870	ug/Kg		6/26/2015 22:28
4,6-Dinitro-2-methylphenol	< 3870	ug/Kg		6/26/2015 22:28

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier:	NA-DSD1		
Lab Sample ID:	152517-07	**Date Sampled:**	6/19/2015
Matrix:	Soil	**Date Received:**	6/19/2015

4-Bromophenyl phenyl ether	< 1940	ug/Kg	6/26/2015	22:28
4-Chloro-3-methylphenol	< 1940	ug/Kg	6/26/2015	22:28
4-Chloroaniline	< 1940	ug/Kg	6/26/2015	22:28
4-Chlorophenyl phenyl ether	< 1940	ug/Kg	6/26/2015	22:28
4-Nitroaniline	< 3870	ug/Kg	6/26/2015	22:28
4-Nitrophenol	< 3870	ug/Kg	6/26/2015	22:28
Acenaphthene	< 1940	ug/Kg	6/26/2015	22:28
Acenaphthylene	< 1940	ug/Kg	6/26/2015	22:28
Acetophenone	< 1940	ug/Kg	6/26/2015	22:28
Anthracene	**2030**	ug/Kg	6/26/2015	22:28
Atrazine	< 1940	ug/Kg	6/26/2015	22:28
Benzaldehyde	< 1940	ug/Kg	6/26/2015	22:28
Benzo (a) anthracene	**3220**	ug/Kg	6/26/2015	22:28
Benzo (a) pyrene	**3000**	ug/Kg	6/26/2015	22:28
Benzo (b) fluoranthene	**3310**	ug/Kg	6/26/2015	22:28
Benzo (g,h,i) perylene	< 1940	ug/Kg	6/26/2015	22:28
Benzo (k) fluoranthene	**3130**	ug/Kg	6/26/2015	22:28
Bis (2-chloroethoxy) methane	< 1940	ug/Kg	6/26/2015	22:28
Bis (2-chloroethyl) ether	< 1940	ug/Kg	6/26/2015	22:28
Bis (2-chloroisopropyl) ether	< 1940	ug/Kg	6/26/2015	22:28
Bis (2-ethylhexyl) phthalate	< 1940	ug/Kg	6/26/2015	22:28
Butylbenzylphthalate	< 1940	ug/Kg	6/26/2015	22:28
Caprolactam	< 1940	ug/Kg	6/26/2015	22:28
Carbazole	< 1940	ug/Kg	6/26/2015	22:28
Chrysene	**3380**	ug/Kg	6/26/2015	22:28
Dibenz (a,h) anthracene	< 1940	ug/Kg	6/26/2015	22:28
Dibenzofuran	< 1940	ug/Kg	6/26/2015	22:28
Diethyl phthalate	< 1940	ug/Kg	6/26/2015	22:28
Dimethyl phthalate	< 3870	ug/Kg	6/26/2015	22:28
Di-n-butyl phthalate	< 1940	ug/Kg	6/26/2015	22:28
Di-n-octylphthalate	< 1940	ug/Kg	6/26/2015	22:28
Fluoranthene	**8210**	ug/Kg	6/26/2015	22:28

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-DSD1
Lab Sample ID: 152517-07 **Date Sampled:** 6/19/2015
Matrix: Soil **Date Received:** 6/19/2015

Fluorene	< 1940	ug/Kg	6/26/2015	22:28
Hexachlorobenzene	< 1940	ug/Kg	6/26/2015	22:28
Hexachlorobutadiene	< 1940	ug/Kg	6/26/2015	22:28
Hexachlorocyclopentadiene	< 1940	ug/Kg	6/26/2015	22:28
Hexachloroethane	< 1940	ug/Kg	6/26/2015	22:28
Indeno (1,2,3-cd) pyrene	**2890**	ug/Kg	6/26/2015	22:28
Isophorone	< 1940	ug/Kg	6/26/2015	22:28
Naphthalene	< 1940	ug/Kg	6/26/2015	22:28
Nitrobenzene	< 1940	ug/Kg	6/26/2015	22:28
N-Nitroso-di-n-propylamine	< 1940	ug/Kg	6/26/2015	22:28
N-Nitrosodiphenylamine	< 1940	ug/Kg	6/26/2015	22:28
Pentachlorophenol	< 3870	ug/Kg	6/26/2015	22:28
Phenanthrene	**7530**	ug/Kg	6/26/2015	22:28
Phenol	< 1940	ug/Kg	6/26/2015	22:28
Pyrene	**6090**	ug/Kg	6/26/2015	22:28

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**72.3**	41.6 - 115		6/26/2015	22:28
2-Fluorobiphenyl	**61.7**	35.9 - 103		6/26/2015	22:28
2-Fluorophenol	**60.4**	39.9 - 87.9		6/26/2015	22:28
Nitrobenzene-d5	**58.4**	37.2 - 90.6		6/26/2015	22:28
Phenol-d5	**63.1**	42.3 - 90.6		6/26/2015	22:28
Terphenyl-d14	**67.0**	58.2 - 113		6/26/2015	22:28

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 6/25/2015
Data File: B06092.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 9.71	ug/Kg		6/25/2015	06:06
1,1,2,2-Tetrachloroethane	< 9.71	ug/Kg		6/25/2015	06:06
1,1,2-Trichloroethane	< 9.71	ug/Kg		6/25/2015	06:06
1,1-Dichloroethane	< 9.71	ug/Kg		6/25/2015	06:06

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier:	NA-DSD1		
Lab Sample ID:	152517-07	**Date Sampled:**	6/19/2015
Matrix:	Soil	**Date Received:**	6/19/2015

1,1-Dichloroethene	< 9.71	ug/Kg	6/25/2015 06:06
1,2,3-Trichlorobenzene	< 24.3	ug/Kg	6/25/2015 06:06
1,2,4-Trichlorobenzene	< 24.3	ug/Kg	6/25/2015 06:06
1,2,4-Trimethylbenzene	< 9.71	ug/Kg	6/25/2015 06:06
1,2-Dibromo-3-Chloropropane	< 48.6	ug/Kg	6/25/2015 06:06
1,2-Dibromoethane	< 9.71	ug/Kg	6/25/2015 06:06
1,2-Dichlorobenzene	< 9.71	ug/Kg	6/25/2015 06:06
1,2-Dichloroethane	< 9.71	ug/Kg	6/25/2015 06:06
1,2-Dichloropropane	< 9.71	ug/Kg	6/25/2015 06:06
1,3,5-Trimethylbenzene	< 9.71	ug/Kg	6/25/2015 06:06
1,3-Dichlorobenzene	< 9.71	ug/Kg	6/25/2015 06:06
1,4-Dichlorobenzene	< 9.71	ug/Kg	6/25/2015 06:06
1,4-dioxane	< 97.1	ug/Kg	6/25/2015 06:06
2-Butanone	< 48.6	ug/Kg	6/25/2015 06:06
2-Hexanone	< 24.3	ug/Kg	6/25/2015 06:06
4-Methyl-2-pentanone	< 24.3	ug/Kg	6/25/2015 06:06
Acetone	< 48.6	ug/Kg	6/25/2015 06:06
Benzene	< 9.71	ug/Kg	6/25/2015 06:06
Bromochloromethane	< 24.3	ug/Kg	6/25/2015 06:06
Bromodichloromethane	< 9.71	ug/Kg	6/25/2015 06:06
Bromoform	< 24.3	ug/Kg	6/25/2015 06:06
Bromomethane	< 9.71	ug/Kg	6/25/2015 06:06
Carbon disulfide	< 9.71	ug/Kg	6/25/2015 06:06
Carbon Tetrachloride	< 9.71	ug/Kg	6/25/2015 06:06
Chlorobenzene	< 9.71	ug/Kg	6/25/2015 06:06
Chloroethane	< 9.71	ug/Kg	6/25/2015 06:06
Chloroform	< 9.71	ug/Kg	6/25/2015 06:06
Chloromethane	< 9.71	ug/Kg	6/25/2015 06:06
cis-1,2-Dichloroethene	< 9.71	ug/Kg	6/25/2015 06:06
cis-1,3-Dichloropropene	< 9.71	ug/Kg	6/25/2015 06:06
Cyclohexane	< 48.6	ug/Kg	6/25/2015 06:06
Dibromochloromethane	< 9.71	ug/Kg	6/25/2015 06:06

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier:	NA-DSD1		
Lab Sample ID:	152517-07	**Date Sampled:**	6/19/2015
Matrix:	Soil	**Date Received:**	6/19/2015

Dichlorodifluoromethane	< 9.71	ug/Kg	6/25/2015	06:06
Ethylbenzene	< 9.71	ug/Kg	6/25/2015	06:06
Freon 113	< 9.71	ug/Kg	6/25/2015	06:06
Isopropylbenzene	< 9.71	ug/Kg	6/25/2015	06:06
m,p-Xylene	< 9.71	ug/Kg	6/25/2015	06:06
Methyl acetate	< 9.71	ug/Kg	6/25/2015	06:06
Methyl tert-butyl Ether	< 9.71	ug/Kg	6/25/2015	06:06
Methylcyclohexane	< 9.71	ug/Kg	6/25/2015	06:06
Methylene chloride	< 24.3	ug/Kg	6/25/2015	06:06
Naphthalene	< 24.3	ug/Kg	6/25/2015	06:06
n-Butylbenzene	< 9.71	ug/Kg	6/25/2015	06:06
n-Propylbenzene	< 9.71	ug/Kg	6/25/2015	06:06
o-Xylene	< 9.71	ug/Kg	6/25/2015	06:06
p-Isopropyltoluene	< 9.71	ug/Kg	6/25/2015	06:06
sec-Butylbenzene	< 9.71	ug/Kg	6/25/2015	06:06
Styrene	< 24.3	ug/Kg	6/25/2015	06:06
tert-Butylbenzene	< 9.71	ug/Kg	6/25/2015	06:06
Tetrachloroethene	< 9.71	ug/Kg	6/25/2015	06:06
Toluene	< 9.71	ug/Kg	6/25/2015	06:06
trans-1,2-Dichloroethene	< 9.71	ug/Kg	6/25/2015	06:06
trans-1,3-Dichloropropene	< 9.71	ug/Kg	6/25/2015	06:06
Trichloroethene	< 9.71	ug/Kg	6/25/2015	06:06
Trichlorofluoromethane	< 9.71	ug/Kg	6/25/2015	06:06
Vinyl chloride	< 9.71	ug/Kg	6/25/2015	06:06

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152517

Client: **Fisher Associates**

Project Reference: Northland Ave. Site 154034

Sample Identifier: NA-DSD1

Lab Sample ID: 152517-07 **Date Sampled:** 6/19/2015

Matrix: Soil **Date Received:** 6/19/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**126**	80.6 - 125	*	6/25/2015 06:06
4-Bromofluorobenzene	**57.6**	86.6 - 111	*	6/25/2015 06:06
Pentafluorobenzene	**93.8**	90.9 - 107		6/25/2015 06:06
Toluene-D8	**76.1**	90.8 - 109	*	6/25/2015 06:06

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035A

Data File: x24069.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PARADIGM ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:			
COMPANY:	Fisher Associates	COMPANY:	Same	LAB PROJECT #: 152517	CLIENT PROJECT #:
ADDRESS:	135 Calkins Road	ADDRESS:			
CITY: Rochester	STATE: NY ZIP: 14623	CITY:	STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS)	
PHONE: (585) 362-6377	FAX:	PHONE:	FAX:	STD ☒	OTHER ☐
PROJECT NAME/SITE NAME: Monticello Ave. Site 154034	ATTN: James A Moore	ATTN:		☐1 ☐2 ☐3 ☒5	
	COMMENTS: jmoore@fishersssx.com			Quotation #	

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER OF CONTAINERS	VOCs (CP-51) TCL	SVOCs (CP-51)	Total Metals	Pesticides	PCBs	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	6/18/15	1030		X	NA-ASB5(4-8')	SO	1	X	X	X	X	X		01
2	6/18/15	1040		X	NA-ASB5(8-10.2')	SO	1	X	X	X	X	X		02
3	6/18/15	1115		X	NA-ASB8(0-4')	SO	1	X	X	X	X	X		03
4	6/18/15	1500		X	NA-SB19(0-4')	SO	1	X	X	X	X	X		04
5	6/19/15	0900		X	NA-CSB3(0-4')	SO	1	X	X	X	X	X		05
6	6/19/15	1145		X	NA-DSB2(0-4')	SO	1	X	X	X	X	X		06
7	6/19/15	1215		X	NA-DSD1	SO	1	X	X	X	X	X		07
8													15°C iced KRH 6/19/15 1647	
9														
10														

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type:	Y ☐	N ☐
Comments:		
Preservation:	Y ☐	N ☐
Comments:		
Holding Time:	Y ☐	N ☐
Comments:		
Temperature:	Y ☐	N ☐
Comments:		

James A Moore	6/19/15	Sampled By / Date/Time
	6/19/15 1335	Relinquished By / Date/Time
	6/19/15 1335	Received By / Date/Time
	6/19/15 16:47	Received @ Lab By / Date/Time

Total Cost: ☐

P.I.F. ☐

Chain of Custody Supplement

Client: Fisher Associates

Completed by: Glenn Pezzulo

Lab Project ID: 152517

Date: 6/22/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X	X 5035	
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature		X	X Metals
Comments	15°C ice 1		
Sufficient Sample Quantity	X		
Comments			

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Fisher Associates

For Lab Project ID

152663

Referencing

Northland Ave Sites 154034

Prepared

Wednesday, July 08, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

KR Hansen

Certifies that this report has been approved by the Technical Director or Designee

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This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152663

Client: **Fisher Associates**

Project Reference: Northland Ave Sites 154034

Sample Identifier:	NA-DP1-062915		
Lab Sample ID:	152663-01	**Date Sampled:**	6/29/2015
Matrix:	Wastewater	**Date Received:**	6/30/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		7/1/2015 16:34

Method Reference(s): EPA 245.1
Preparation Date: 7/1/2015
Data File: Hg150701B

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.00500	mg/L		7/1/2015 12:26
Barium	< 0.0500	mg/L		7/1/2015 12:26
Cadmium	< 0.00250	mg/L		7/1/2015 12:26
Chromium	< 0.00500	mg/L		7/1/2015 12:26
Lead	< 0.00500	mg/L		7/1/2015 12:26
Selenium	**0.00710**	mg/L		7/2/2015 14:30
Silver	< 0.00500	mg/L		7/1/2015 12:26

Method Reference(s): EPA 200.7
Preparation Date: 6/30/2015
Data File: 070115b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 1.00	ug/L		7/6/2015 18:52
PCB-1221	< 1.00	ug/L		7/6/2015 18:52
PCB-1232	< 1.00	ug/L		7/6/2015 18:52
PCB-1242	< 1.00	ug/L		7/6/2015 18:52
PCB-1248	< 1.00	ug/L		7/6/2015 18:52
PCB-1254	< 1.00	ug/L		7/6/2015 18:52
PCB-1260	< 1.00	ug/L		7/6/2015 18:52
PCB-1262	< 1.00	ug/L		7/6/2015 18:52
PCB-1268	< 1.00	ug/L		7/6/2015 18:52

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Wednesday, July 08, 2015

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152663

Client: **Fisher Associates**

Project Reference: Northland Ave Sites 154034

Sample Identifier: NA-DP1-062915
Lab Sample ID: 152663-01 **Date Sampled:** 6/29/2015
Matrix: Wastewater **Date Received:** 6/30/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**76.4**	28.7 - 139		7/6/2015 18:52
Tetrachloro-m-xylene	**56.8**	0 - 110		7/6/2015 18:52

Method Reference(s): EPA 8082A
EPA 3510C
Preparation Date: 7/6/2015

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		7/1/2015 10:56
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		7/1/2015 10:56
1,2,4-Trichlorobenzene	< 10.0	ug/L		7/1/2015 10:56
1,2-Dichlorobenzene	< 10.0	ug/L		7/1/2015 10:56
1,3-Dichlorobenzene	< 10.0	ug/L		7/1/2015 10:56
1,4-Dichlorobenzene	< 10.0	ug/L		7/1/2015 10:56
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		7/1/2015 10:56
2,4,5-Trichlorophenol	< 20.0	ug/L		7/1/2015 10:56
2,4,6-Trichlorophenol	< 10.0	ug/L		7/1/2015 10:56
2,4-Dichlorophenol	< 10.0	ug/L		7/1/2015 10:56
2,4-Dimethylphenol	< 10.0	ug/L		7/1/2015 10:56
2,4-Dinitrophenol	< 20.0	ug/L		7/1/2015 10:56
2,4-Dinitrotoluene	< 10.0	ug/L		7/1/2015 10:56
2,6-Dinitrotoluene	< 10.0	ug/L		7/1/2015 10:56
2-Chloronaphthalene	< 10.0	ug/L		7/1/2015 10:56
2-Chlorophenol	< 10.0	ug/L		7/1/2015 10:56
2-Methylnapthalene	< 10.0	ug/L		7/1/2015 10:56
2-Methylphenol	< 10.0	ug/L		7/1/2015 10:56
2-Nitroaniline	< 20.0	ug/L		7/1/2015 10:56
2-Nitrophenol	< 10.0	ug/L		7/1/2015 10:56
3&4-Methylphenol	< 10.0	ug/L		7/1/2015 10:56
3,3'-Dichlorobenzidine	< 10.0	ug/L		7/1/2015 10:56
3-Nitroaniline	< 20.0	ug/L		7/1/2015 10:56
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		7/1/2015 10:56

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152663

Client: **Fisher Associates**

Project Reference: Northland Ave Sites 154034

Sample Identifier: NA-DP1-062915
Lab Sample ID: 152663-01 **Date Sampled:** 6/29/2015
Matrix: Wastewater **Date Received:** 6/30/2015

4-Bromophenyl phenyl ether	< 10.0	ug/L	7/1/2015	10:56
4-Chloro-3-methylphenol	< 10.0	ug/L	7/1/2015	10:56
4-Chloroaniline	< 10.0	ug/L	7/1/2015	10:56
4-Chlorophenyl phenyl ether	< 10.0	ug/L	7/1/2015	10:56
4-Nitroaniline	< 20.0	ug/L	7/1/2015	10:56
4-Nitrophenol	< 20.0	ug/L	7/1/2015	10:56
Acenaphthene	< 10.0	ug/L	7/1/2015	10:56
Acenaphthylene	< 10.0	ug/L	7/1/2015	10:56
Acetophenone	< 10.0	ug/L	7/1/2015	10:56
Anthracene	< 10.0	ug/L	7/1/2015	10:56
Atrazine	< 10.0	ug/L	7/1/2015	10:56
Benzaldehyde	< 10.0	ug/L	7/1/2015	10:56
Benzo (a) anthracene	< 10.0	ug/L	7/1/2015	10:56
Benzo (a) pyrene	< 10.0	ug/L	7/1/2015	10:56
Benzo (b) fluoranthene	< 10.0	ug/L	7/1/2015	10:56
Benzo (g,h,i) perylene	< 10.0	ug/L	7/1/2015	10:56
Benzo (k) fluoranthene	< 10.0	ug/L	7/1/2015	10:56
Bis (2-chloroethoxy) methane	< 10.0	ug/L	7/1/2015	10:56
Bis (2-chloroethyl) ether	< 10.0	ug/L	7/1/2015	10:56
Bis (2-chloroisopropyl) ether	< 10.0	ug/L	7/1/2015	10:56
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	7/1/2015	10:56
Butylbenzylphthalate	< 10.0	ug/L	7/1/2015	10:56
Caprolactam	< 10.0	ug/L	7/1/2015	10:56
Carbazole	< 10.0	ug/L	7/1/2015	10:56
Chrysene	< 10.0	ug/L	7/1/2015	10:56
Dibenz (a,h) anthracene	< 10.0	ug/L	7/1/2015	10:56
Dibenzofuran	< 10.0	ug/L	7/1/2015	10:56
Diethyl phthalate	< 10.0	ug/L	7/1/2015	10:56
Dimethyl phthalate	< 20.0	ug/L	7/1/2015	10:56
Di-n-butyl phthalate	< 10.0	ug/L	7/1/2015	10:56
Di-n-octylphthalate	< 10.0	ug/L	7/1/2015	10:56
Fluoranthene	< 10.0	ug/L	7/1/2015	10:56

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152663

Client: **Fisher Associates**

Project Reference: Northland Ave Sites 154034

Sample Identifier: NA-DP1-062915
Lab Sample ID: 152663-01 **Date Sampled:** 6/29/2015
Matrix: Wastewater **Date Received:** 6/30/2015

Fluorene	< 10.0	ug/L	7/1/2015	10:56
Hexachlorobenzene	< 10.0	ug/L	7/1/2015	10:56
Hexachlorobutadiene	< 10.0	ug/L	7/1/2015	10:56
Hexachlorocyclopentadiene	< 10.0	ug/L	7/1/2015	10:56
Hexachloroethane	< 10.0	ug/L	7/1/2015	10:56
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	7/1/2015	10:56
Isophorone	< 10.0	ug/L	7/1/2015	10:56
Naphthalene	< 10.0	ug/L	7/1/2015	10:56
Nitrobenzene	< 10.0	ug/L	7/1/2015	10:56
N-Nitroso-di-n-propylamine	< 10.0	ug/L	7/1/2015	10:56
N-Nitrosodiphenylamine	< 10.0	ug/L	7/1/2015	10:56
Pentachlorophenol	< 20.0	ug/L	7/1/2015	10:56
Phenanthrene	< 10.0	ug/L	7/1/2015	10:56
Phenol	< 10.0	ug/L	7/1/2015	10:56
Pyrene	< 10.0	ug/L	7/1/2015	10:56

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**86.7**	27.2 - 132		7/1/2015	10:56
2-Fluorobiphenyl	**73.4**	20.2 - 94.7		7/1/2015	10:56
2-Fluorophenol	**46.4**	5.5 - 92.9		7/1/2015	10:56
Nitrobenzene-d5	**80.4**	44.4 - 95.7		7/1/2015	10:56
Phenol-d5	**31.0**	0 - 90.8		7/1/2015	10:56
Terphenyl-d14	**81.7**	55.1 - 112		7/1/2015	10:56

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 6/30/2015
Data File: B06172.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 2.00	ug/L		7/7/2015	15:12
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/7/2015	15:12
1,1,2-Trichloroethane	< 2.00	ug/L		7/7/2015	15:12
1,1-Dichloroethane	< 2.00	ug/L		7/7/2015	15:12

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152663

Client: **Fisher Associates**

Project Reference: Northland Ave Sites 154034

Sample Identifier: NA-DP1-062915
Lab Sample ID: 152663-01 **Date Sampled:** 6/29/2015
Matrix: Wastewater **Date Received:** 6/30/2015

1,1-Dichloroethene	< 2.00	ug/L	7/7/2015	15:12
1,2,3-Trichlorobenzene	< 5.00	ug/L	7/7/2015	15:12
1,2,4-Trichlorobenzene	< 5.00	ug/L	7/7/2015	15:12
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	7/7/2015	15:12
1,2-Dibromoethane	< 2.00	ug/L	7/7/2015	15:12
1,2-Dichlorobenzene	< 2.00	ug/L	7/7/2015	15:12
1,2-Dichloroethane	< 2.00	ug/L	7/7/2015	15:12
1,2-Dichloropropane	< 2.00	ug/L	7/7/2015	15:12
1,3-Dichlorobenzene	< 2.00	ug/L	7/7/2015	15:12
1,4-Dichlorobenzene	< 2.00	ug/L	7/7/2015	15:12
1,4-dioxane	< 20.0	ug/L	7/7/2015	15:12
2-Butanone	< 10.0	ug/L	7/7/2015	15:12
2-Hexanone	< 5.00	ug/L	7/7/2015	15:12
4-Methyl-2-pentanone	< 5.00	ug/L	7/7/2015	15:12
Acetone	< 10.0	ug/L	7/7/2015	15:12
Benzene	< 1.00	ug/L	7/7/2015	15:12
Bromochloromethane	< 5.00	ug/L	7/7/2015	15:12
Bromodichloromethane	< 2.00	ug/L	7/7/2015	15:12
Bromoform	< 5.00	ug/L	7/7/2015	15:12
Bromomethane	< 2.00	ug/L	7/7/2015	15:12
Carbon disulfide	< 2.00	ug/L	7/7/2015	15:12
Carbon Tetrachloride	< 2.00	ug/L	7/7/2015	15:12
Chlorobenzene	< 2.00	ug/L	7/7/2015	15:12
Chloroethane	< 2.00	ug/L	7/7/2015	15:12
Chloroform	< 2.00	ug/L	7/7/2015	15:12
Chloromethane	< 2.00	ug/L	7/7/2015	15:12
cis-1,2-Dichloroethene	< 2.00	ug/L	7/7/2015	15:12
cis-1,3-Dichloropropene	< 2.00	ug/L	7/7/2015	15:12
Cyclohexane	< 10.0	ug/L	7/7/2015	15:12
Dibromochloromethane	< 2.00	ug/L	7/7/2015	15:12
Dichlorodifluoromethane	< 2.00	ug/L	7/7/2015	15:12
Ethylbenzene	< 2.00	ug/L	7/7/2015	15:12

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152663

Client: **Fisher Associates**

Project Reference: Northland Ave Sites 154034

Sample Identifier: NA-DP1-062915
Lab Sample ID: 152663-01 **Date Sampled:** 6/29/2015
Matrix: Wastewater **Date Received:** 6/30/2015

Freon 113	< 2.00	ug/L	7/7/2015	15:12
Isopropylbenzene	< 2.00	ug/L	7/7/2015	15:12
m,p-Xylene	< 2.00	ug/L	7/7/2015	15:12
Methyl acetate	< 2.00	ug/L	7/7/2015	15:12
Methyl tert-butyl Ether	< 2.00	ug/L	7/7/2015	15:12
Methylcyclohexane	< 2.00	ug/L	7/7/2015	15:12
Methylene chloride	< 5.00	ug/L	7/7/2015	15:12
o-Xylene	< 2.00	ug/L	7/7/2015	15:12
Styrene	< 5.00	ug/L	7/7/2015	15:12
Tetrachloroethene	**4.30**	ug/L	7/7/2015	15:12
Toluene	< 2.00	ug/L	7/7/2015	15:12
trans-1,2-Dichloroethene	< 2.00	ug/L	7/7/2015	15:12
trans-1,3-Dichloropropene	< 2.00	ug/L	7/7/2015	15:12
Trichloroethene	< 2.00	ug/L	7/7/2015	15:12
Trichlorofluoromethane	< 2.00	ug/L	7/7/2015	15:12
Vinyl chloride	< 2.00	ug/L	7/7/2015	15:12

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**102**	82.3 - 115		7/7/2015	15:12
4-Bromofluorobenzene	**89.1**	85.5 - 111		7/7/2015	15:12
Pentafluorobenzene	**104**	91.2 - 107		7/7/2015	15:12
Toluene-D8	**95.0**	90.9 - 108		7/7/2015	15:12

Method Reference(s): EPA 8260C
EPA 5030
Data File: x24363.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152663

Client: **Fisher Associates**

Project Reference: Northland Ave Sites 154034

Sample Identifier:	NA-DP2-062915		
Lab Sample ID:	152663-02	**Date Sampled:**	6/29/2015
Matrix:	Wastewater	**Date Received:**	6/30/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		7/1/2015 16:37

Method Reference(s): EPA 245.1
Preparation Date: 7/1/2015
Data File: Hg150701B

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.00500	mg/L		7/1/2015 12:30
Barium	< 0.0500	mg/L		7/1/2015 12:30
Cadmium	< 0.00250	mg/L		7/1/2015 12:30
Chromium	< 0.00500	mg/L		7/1/2015 12:30
Lead	< 0.00500	mg/L		7/1/2015 12:30
Selenium	**0.00820**	mg/L		7/2/2015 14:34
Silver	< 0.00500	mg/L		7/1/2015 12:30

Method Reference(s): EPA 200.7
Preparation Date: 6/30/2015
Data File: 070115b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 1.00	ug/L		7/7/2015 12:36
PCB-1221	< 1.00	ug/L		7/7/2015 12:36
PCB-1232	< 1.00	ug/L		7/7/2015 12:36
PCB-1242	< 1.00	ug/L		7/7/2015 12:36
PCB-1248	< 1.00	ug/L		7/7/2015 12:36
PCB-1254	< 1.00	ug/L		7/7/2015 12:36
PCB-1260	< 1.00	ug/L		7/7/2015 12:36
PCB-1262	< 1.00	ug/L		7/7/2015 12:36
PCB-1268	< 1.00	ug/L		7/7/2015 12:36

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Report Prepared Wednesday, July 08, 2015

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152663

Client: **Fisher Associates**

Project Reference: Northland Ave Sites 154034

Sample Identifier: NA-DP2-062915
Lab Sample ID: 152663-02 **Date Sampled:** 6/29/2015
Matrix: Wastewater **Date Received:** 6/30/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**59.5**	28.7 - 139		7/7/2015 12:36
Tetrachloro-m-xylene	**37.0**	0 - 110		7/7/2015 12:36

Method Reference(s): EPA 8082A
EPA 3510C
Preparation Date: 7/6/2015

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		7/1/2015 11:25
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		7/1/2015 11:25
1,2,4-Trichlorobenzene	< 10.0	ug/L		7/1/2015 11:25
1,2-Dichlorobenzene	< 10.0	ug/L		7/1/2015 11:25
1,3-Dichlorobenzene	< 10.0	ug/L		7/1/2015 11:25
1,4-Dichlorobenzene	< 10.0	ug/L		7/1/2015 11:25
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		7/1/2015 11:25
2,4,5-Trichlorophenol	< 20.0	ug/L		7/1/2015 11:25
2,4,6-Trichlorophenol	< 10.0	ug/L		7/1/2015 11:25
2,4-Dichlorophenol	< 10.0	ug/L		7/1/2015 11:25
2,4-Dimethylphenol	< 10.0	ug/L		7/1/2015 11:25
2,4-Dinitrophenol	< 20.0	ug/L		7/1/2015 11:25
2,4-Dinitrotoluene	< 10.0	ug/L		7/1/2015 11:25
2,6-Dinitrotoluene	< 10.0	ug/L		7/1/2015 11:25
2-Chloronaphthalene	< 10.0	ug/L		7/1/2015 11:25
2-Chlorophenol	< 10.0	ug/L		7/1/2015 11:25
2-Methylnapthalene	< 10.0	ug/L		7/1/2015 11:25
2-Methylphenol	< 10.0	ug/L		7/1/2015 11:25
2-Nitroaniline	< 20.0	ug/L		7/1/2015 11:25
2-Nitrophenol	< 10.0	ug/L		7/1/2015 11:25
3&4-Methylphenol	< 10.0	ug/L		7/1/2015 11:25
3,3'-Dichlorobenzidine	< 10.0	ug/L		7/1/2015 11:25
3-Nitroaniline	< 20.0	ug/L		7/1/2015 11:25
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		7/1/2015 11:25

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152663

Client: **Fisher Associates**

Project Reference: Northland Ave Sites 154034

Sample Identifier: NA-DP2-062915
Lab Sample ID: 152663-02 **Date Sampled:** 6/29/2015
Matrix: Wastewater **Date Received:** 6/30/2015

4-Bromophenyl phenyl ether	< 10.0	ug/L	7/1/2015	11:25
4-Chloro-3-methylphenol	< 10.0	ug/L	7/1/2015	11:25
4-Chloroaniline	< 10.0	ug/L	7/1/2015	11:25
4-Chlorophenyl phenyl ether	< 10.0	ug/L	7/1/2015	11:25
4-Nitroaniline	< 20.0	ug/L	7/1/2015	11:25
4-Nitrophenol	< 20.0	ug/L	7/1/2015	11:25
Acenaphthene	< 10.0	ug/L	7/1/2015	11:25
Acenaphthylene	< 10.0	ug/L	7/1/2015	11:25
Acetophenone	< 10.0	ug/L	7/1/2015	11:25
Anthracene	< 10.0	ug/L	7/1/2015	11:25
Atrazine	< 10.0	ug/L	7/1/2015	11:25
Benzaldehyde	< 10.0	ug/L	7/1/2015	11:25
Benzo (a) anthracene	< 10.0	ug/L	7/1/2015	11:25
Benzo (a) pyrene	< 10.0	ug/L	7/1/2015	11:25
Benzo (b) fluoranthene	< 10.0	ug/L	7/1/2015	11:25
Benzo (g,h,i) perylene	< 10.0	ug/L	7/1/2015	11:25
Benzo (k) fluoranthene	< 10.0	ug/L	7/1/2015	11:25
Bis (2-chloroethoxy) methane	< 10.0	ug/L	7/1/2015	11:25
Bis (2-chloroethyl) ether	< 10.0	ug/L	7/1/2015	11:25
Bis (2-chloroisopropyl) ether	< 10.0	ug/L	7/1/2015	11:25
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	7/1/2015	11:25
Butylbenzylphthalate	< 10.0	ug/L	7/1/2015	11:25
Caprolactam	< 10.0	ug/L	7/1/2015	11:25
Carbazole	< 10.0	ug/L	7/1/2015	11:25
Chrysene	< 10.0	ug/L	7/1/2015	11:25
Dibenz (a,h) anthracene	< 10.0	ug/L	7/1/2015	11:25
Dibenzofuran	< 10.0	ug/L	7/1/2015	11:25
Diethyl phthalate	< 10.0	ug/L	7/1/2015	11:25
Dimethyl phthalate	< 20.0	ug/L	7/1/2015	11:25
Di-n-butyl phthalate	< 10.0	ug/L	7/1/2015	11:25
Di-n-octylphthalate	< 10.0	ug/L	7/1/2015	11:25
Fluoranthene	< 10.0	ug/L	7/1/2015	11:25

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152663

Client: **Fisher Associates**

Project Reference: Northland Ave Sites 154034

Sample Identifier: NA-DP2-062915
Lab Sample ID: 152663-02 **Date Sampled:** 6/29/2015
Matrix: Wastewater **Date Received:** 6/30/2015

Fluorene	< 10.0	ug/L	7/1/2015	11:25
Hexachlorobenzene	< 10.0	ug/L	7/1/2015	11:25
Hexachlorobutadiene	< 10.0	ug/L	7/1/2015	11:25
Hexachlorocyclopentadiene	< 10.0	ug/L	7/1/2015	11:25
Hexachloroethane	< 10.0	ug/L	7/1/2015	11:25
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	7/1/2015	11:25
Isophorone	< 10.0	ug/L	7/1/2015	11:25
Naphthalene	< 10.0	ug/L	7/1/2015	11:25
Nitrobenzene	< 10.0	ug/L	7/1/2015	11:25
N-Nitroso-di-n-propylamine	< 10.0	ug/L	7/1/2015	11:25
N-Nitrosodiphenylamine	< 10.0	ug/L	7/1/2015	11:25
Pentachlorophenol	< 20.0	ug/L	7/1/2015	11:25
Phenanthrene	< 10.0	ug/L	7/1/2015	11:25
Phenol	< 10.0	ug/L	7/1/2015	11:25
Pyrene	< 10.0	ug/L	7/1/2015	11:25

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**94.1**	27.2 - 132		7/1/2015	11:25
2-Fluorobiphenyl	**79.2**	20.2 - 94.7		7/1/2015	11:25
2-Fluorophenol	**51.1**	5.5 - 92.9		7/1/2015	11:25
Nitrobenzene-d5	**87.2**	44.4 - 95.7		7/1/2015	11:25
Phenol-d5	**34.1**	0 - 90.8		7/1/2015	11:25
Terphenyl-d14	**87.9**	55.1 - 112		7/1/2015	11:25

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 6/30/2015
Data File: B06173.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 2.00	ug/L		7/7/2015	15:36
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/7/2015	15:36
1,1,2-Trichloroethane	< 2.00	ug/L		7/7/2015	15:36
1,1-Dichloroethane	< 2.00	ug/L		7/7/2015	15:36

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152663

Client: **Fisher Associates**

Project Reference: Northland Ave Sites 154034

Sample Identifier: NA-DP2-062915
Lab Sample ID: 152663-02 **Date Sampled:** 6/29/2015
Matrix: Wastewater **Date Received:** 6/30/2015

1,1-Dichloroethene	< 2.00	ug/L	7/7/2015	15:36
1,2,3-Trichlorobenzene	< 5.00	ug/L	7/7/2015	15:36
1,2,4-Trichlorobenzene	< 5.00	ug/L	7/7/2015	15:36
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	7/7/2015	15:36
1,2-Dibromoethane	< 2.00	ug/L	7/7/2015	15:36
1,2-Dichlorobenzene	< 2.00	ug/L	7/7/2015	15:36
1,2-Dichloroethane	< 2.00	ug/L	7/7/2015	15:36
1,2-Dichloropropane	< 2.00	ug/L	7/7/2015	15:36
1,3-Dichlorobenzene	< 2.00	ug/L	7/7/2015	15:36
1,4-Dichlorobenzene	< 2.00	ug/L	7/7/2015	15:36
1,4-dioxane	< 20.0	ug/L	7/7/2015	15:36
2-Butanone	< 10.0	ug/L	7/7/2015	15:36
2-Hexanone	< 5.00	ug/L	7/7/2015	15:36
4-Methyl-2-pentanone	< 5.00	ug/L	7/7/2015	15:36
Acetone	**168**	ug/L	7/7/2015	15:36
Benzene	< 1.00	ug/L	7/7/2015	15:36
Bromochloromethane	< 5.00	ug/L	7/7/2015	15:36
Bromodichloromethane	< 2.00	ug/L	7/7/2015	15:36
Bromoform	< 5.00	ug/L	7/7/2015	15:36
Bromomethane	< 2.00	ug/L	7/7/2015	15:36
Carbon disulfide	< 2.00	ug/L	7/7/2015	15:36
Carbon Tetrachloride	< 2.00	ug/L	7/7/2015	15:36
Chlorobenzene	< 2.00	ug/L	7/7/2015	15:36
Chloroethane	< 2.00	ug/L	7/7/2015	15:36
Chloroform	< 2.00	ug/L	7/7/2015	15:36
Chloromethane	< 2.00	ug/L	7/7/2015	15:36
cis-1,2-Dichloroethene	< 2.00	ug/L	7/7/2015	15:36
cis-1,3-Dichloropropene	< 2.00	ug/L	7/7/2015	15:36
Cyclohexane	< 10.0	ug/L	7/7/2015	15:36
Dibromochloromethane	< 2.00	ug/L	7/7/2015	15:36
Dichlorodifluoromethane	< 2.00	ug/L	7/7/2015	15:36
Ethylbenzene	< 2.00	ug/L	7/7/2015	15:36

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152663

Client: **Fisher Associates**

Project Reference: Northland Ave Sites 154034

Sample Identifier: NA-DP2-062915
Lab Sample ID: 152663-02 **Date Sampled:** 6/29/2015
Matrix: Wastewater **Date Received:** 6/30/2015

Freon 113	< 2.00	ug/L	7/7/2015	15:36
Isopropylbenzene	< 2.00	ug/L	7/7/2015	15:36
m,p-Xylene	< 2.00	ug/L	7/7/2015	15:36
Methyl acetate	< 2.00	ug/L	7/7/2015	15:36
Methyl tert-butyl Ether	< 2.00	ug/L	7/7/2015	15:36
Methylcyclohexane	< 2.00	ug/L	7/7/2015	15:36
Methylene chloride	< 5.00	ug/L	7/7/2015	15:36
o-Xylene	< 2.00	ug/L	7/7/2015	15:36
Styrene	< 5.00	ug/L	7/7/2015	15:36
Tetrachloroethene	< 2.00	ug/L	7/7/2015	15:36
Toluene	< 2.00	ug/L	7/7/2015	15:36
trans-1,2-Dichloroethene	< 2.00	ug/L	7/7/2015	15:36
trans-1,3-Dichloropropene	< 2.00	ug/L	7/7/2015	15:36
Trichloroethene	< 2.00	ug/L	7/7/2015	15:36
Trichlorofluoromethane	< 2.00	ug/L	7/7/2015	15:36
Vinyl chloride	< 2.00	ug/L	7/7/2015	15:36

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**102**	82.3 - 115		7/7/2015	15:36
4-Bromofluorobenzene	**89.3**	85.5 - 111		7/7/2015	15:36
Pentafluorobenzene	**102**	91.2 - 107		7/7/2015	15:36
Toluene-D8	**93.0**	90.9 - 108		7/7/2015	15:36

Method Reference(s): EPA 8260C
EPA 5030
Data File: x24364.D

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PARADIGM ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	FISHER ASSOCIATES	CLIENT:	SAME	152663
ADDRESS:	135 CALKINS ROAD	ADDRESS:		Quotation #:
CITY:	ROCHESTOR STATE: NY ZIP: 14623	CITY: STATE: ZIP:		
PHONE:	585 362-6377	PHONE:		Email: jmoore@fisherassoc.com
ATTN:	JAMES MOORE	ATTN:		

PROJECT REFERENCE
NORTHLAND AVE SITES
154084

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCLP 8260	PCBs	TCL SVOCs 8270	RCRA METALS	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	6/29/15	1440		X	NA-DP1-062915	NW	5	X	X	X	X		01
2	6/29/15	1445	X		NA-DP2-062915	NW	5	X	X	X	X		02
3													
4													
5													
6													
7													
8													
9													
10													

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	
Rush 2 day		Category B			
Rush 1 day					
Other please indicate:		Other please indicate:		Other EDD please indicate:	

Sampled By: JAMES A MOORE	6/29/15 1500	Total Cost:
Relinquished By:	6/30/15 0810	
Received By:	6/30/15 0810	P.I.F.
Received @ Lab By:	6/30/15 1058	

4°C iced 6/30/15 09:25

PARADIGM

Chain of Custody Supplement

Client: Fisher Assoc. **Completed by:** Molly Lad

Lab Project ID: 152663 **Date:** 6/30/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			V
Headspace (<1 mL)	X		
Comments			
Preservation	X		X RCB, SVOA
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		X mt
Comments	4°C iced 6/30/15 0925		
Sufficient Sample Quantity	X		
Comments			

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Fisher Associates

For Lab Project ID

152665

Referencing

Northland Ave Site 154034

Prepared

Wednesday, July 08, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152665

Client: **Fisher Associates**

Project Reference: Northland Ave Site 154034

Sample Identifier: NA-MW3-062915
Lab Sample ID: 152665-01 **Date Sampled:** 6/29/2015
Matrix: Groundwater **Date Received:** 6/30/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		7/1/2015 16:40

Method Reference(s): EPA 7470A
Preparation Date: 7/1/2015
Data File: Hg150701B

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.0100	mg/L		7/1/2015 13:15
Barium	< 0.100	mg/L		7/1/2015 13:15
Cadmium	< 0.00500	mg/L		7/1/2015 13:15
Chromium	< 0.0100	mg/L		7/1/2015 13:15
Lead	< 0.0100	mg/L		7/1/2015 13:15
Selenium	**0.0105**	mg/L		7/2/2015 14:47
Silver	< 0.0100	mg/L		7/1/2015 13:15

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 6/30/2015
Data File: 070115b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 1.00	ug/L		7/6/2015 19:39
PCB-1221	< 1.00	ug/L		7/6/2015 19:39
PCB-1232	< 1.00	ug/L		7/6/2015 19:39
PCB-1242	< 1.00	ug/L		7/6/2015 19:39
PCB-1248	< 1.00	ug/L		7/6/2015 19:39
PCB-1254	< 1.00	ug/L		7/6/2015 19:39
PCB-1260	< 1.00	ug/L		7/6/2015 19:39
PCB-1262	< 1.00	ug/L		7/6/2015 19:39
PCB-1268	< 1.00	ug/L		7/6/2015 19:39

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152665

Client: **Fisher Associates**

Project Reference: Northland Ave Site 154034

Sample Identifier: NA-MW3-062915
Lab Sample ID: 152665-01 **Date Sampled:** 6/29/2015
Matrix: Groundwater **Date Received:** 6/30/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**67.0**	28.7 - 139		7/6/2015 19:39
Tetrachloro-m-xylene	**57.8**	0 - 110		7/6/2015 19:39

Method Reference(s): EPA 8082A
EPA 3510C
Preparation Date: 7/6/2015

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		7/2/2015 14:14
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		7/2/2015 14:14
1,2,4-Trichlorobenzene	< 10.0	ug/L		7/2/2015 14:14
1,2-Dichlorobenzene	< 10.0	ug/L		7/2/2015 14:14
1,3-Dichlorobenzene	< 10.0	ug/L		7/2/2015 14:14
1,4-Dichlorobenzene	< 10.0	ug/L		7/2/2015 14:14
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		7/2/2015 14:14
2,4,5-Trichlorophenol	< 20.0	ug/L		7/2/2015 14:14
2,4,6-Trichlorophenol	< 10.0	ug/L		7/2/2015 14:14
2,4-Dichlorophenol	< 10.0	ug/L		7/2/2015 14:14
2,4-Dimethylphenol	< 10.0	ug/L		7/2/2015 14:14
2,4-Dinitrophenol	< 20.0	ug/L		7/2/2015 14:14
2,4-Dinitrotoluene	< 10.0	ug/L		7/2/2015 14:14
2,6-Dinitrotoluene	< 10.0	ug/L		7/2/2015 14:14
2-Chloronaphthalene	< 10.0	ug/L		7/2/2015 14:14
2-Chlorophenol	< 10.0	ug/L		7/2/2015 14:14
2-Methylnapthalene	< 10.0	ug/L		7/2/2015 14:14
2-Methylphenol	< 10.0	ug/L		7/2/2015 14:14
2-Nitroaniline	< 20.0	ug/L		7/2/2015 14:14
2-Nitrophenol	< 10.0	ug/L		7/2/2015 14:14
3&4-Methylphenol	< 10.0	ug/L		7/2/2015 14:14
3,3'-Dichlorobenzidine	< 10.0	ug/L		7/2/2015 14:14
3-Nitroaniline	< 20.0	ug/L		7/2/2015 14:14
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		7/2/2015 14:14

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152665

Client: **Fisher Associates**

Project Reference: Northland Ave Site 154034

Sample Identifier:	NA-MW3-062915		
Lab Sample ID:	152665-01	**Date Sampled:**	6/29/2015
Matrix:	Groundwater	**Date Received:**	6/30/2015

4-Bromophenyl phenyl ether	< 10.0	ug/L	7/2/2015	14:14
4-Chloro-3-methylphenol	< 10.0	ug/L	7/2/2015	14:14
4-Chloroaniline	< 10.0	ug/L	7/2/2015	14:14
4-Chlorophenyl phenyl ether	< 10.0	ug/L	7/2/2015	14:14
4-Nitroaniline	< 20.0	ug/L	7/2/2015	14:14
4-Nitrophenol	< 20.0	ug/L	7/2/2015	14:14
Acenaphthene	< 10.0	ug/L	7/2/2015	14:14
Acenaphthylene	< 10.0	ug/L	7/2/2015	14:14
Acetophenone	< 10.0	ug/L	7/2/2015	14:14
Anthracene	< 10.0	ug/L	7/2/2015	14:14
Atrazine	< 10.0	ug/L	7/2/2015	14:14
Benzaldehyde	< 10.0	ug/L	7/2/2015	14:14
Benzo (a) anthracene	< 10.0	ug/L	7/2/2015	14:14
Benzo (a) pyrene	< 10.0	ug/L	7/2/2015	14:14
Benzo (b) fluoranthene	< 10.0	ug/L	7/2/2015	14:14
Benzo (g,h,i) perylene	< 10.0	ug/L	7/2/2015	14:14
Benzo (k) fluoranthene	< 10.0	ug/L	7/2/2015	14:14
Bis (2-chloroethoxy) methane	< 10.0	ug/L	7/2/2015	14:14
Bis (2-chloroethyl) ether	< 10.0	ug/L	7/2/2015	14:14
Bis (2-chloroisopropyl) ether	< 10.0	ug/L	7/2/2015	14:14
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	7/2/2015	14:14
Butylbenzylphthalate	< 10.0	ug/L	7/2/2015	14:14
Caprolactam	< 10.0	ug/L	7/2/2015	14:14
Carbazole	< 10.0	ug/L	7/2/2015	14:14
Chrysene	< 10.0	ug/L	7/2/2015	14:14
Dibenz (a,h) anthracene	< 10.0	ug/L	7/2/2015	14:14
Dibenzofuran	< 10.0	ug/L	7/2/2015	14:14
Diethyl phthalate	< 10.0	ug/L	7/2/2015	14:14
Dimethyl phthalate	< 20.0	ug/L	7/2/2015	14:14
Di-n-butyl phthalate	< 10.0	ug/L	7/2/2015	14:14
Di-n-octylphthalate	< 10.0	ug/L	7/2/2015	14:14
Fluoranthene	< 10.0	ug/L	7/2/2015	14:14

Sample Identifier: NA-MW3-062915
Lab Sample ID: 152665-01 **Date Sampled:** 6/29/2015
Matrix: Groundwater **Date Received:** 6/30/2015

Fluorene	< 10.0	ug/L		7/2/2015	14:14
Hexachlorobenzene	< 10.0	ug/L		7/2/2015	14:14
Hexachlorobutadiene	< 10.0	ug/L		7/2/2015	14:14
Hexachlorocyclopentadiene	< 10.0	ug/L		7/2/2015	14:14
Hexachloroethane	< 10.0	ug/L		7/2/2015	14:14
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L		7/2/2015	14:14
Isophorone	< 10.0	ug/L		7/2/2015	14:14
Naphthalene	< 10.0	ug/L		7/2/2015	14:14
Nitrobenzene	< 10.0	ug/L		7/2/2015	14:14
N-Nitroso-di-n-propylamine	< 10.0	ug/L		7/2/2015	14:14
N-Nitrosodiphenylamine	< 10.0	ug/L		7/2/2015	14:14
Pentachlorophenol	< 20.0	ug/L		7/2/2015	14:14
Phenanthrene	< 10.0	ug/L		7/2/2015	14:14
Phenol	< 10.0	ug/L		7/2/2015	14:14
Pyrene	< 10.0	ug/L		7/2/2015	14:14

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**86.6**	27.2 - 132		7/2/2015	14:14
2-Fluorobiphenyl	**66.0**	20.2 - 94.7		7/2/2015	14:14
2-Fluorophenol	**48.7**	5.5 - 92.9		7/2/2015	14:14
Nitrobenzene-d5	**81.8**	44.4 - 95.7		7/2/2015	14:14
Phenol-d5	**32.9**	0 - 90.8		7/2/2015	14:14
Terphenyl-d14	**85.4**	55.1 - 112		7/2/2015	14:14

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 7/2/2015
Data File: B06193.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 2.00	ug/L		7/7/2015	16:00
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/7/2015	16:00
1,1,2-Trichloroethane	< 2.00	ug/L		7/7/2015	16:00
1,1-Dichloroethane	< 2.00	ug/L		7/7/2015	16:00

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152665

Client: **Fisher Associates**

Project Reference: Northland Ave Site 154034

Sample Identifier:	NA-MW3-062915		
Lab Sample ID:	152665-01	**Date Sampled:**	6/29/2015
Matrix:	Groundwater	**Date Received:**	6/30/2015

1,1-Dichloroethene	< 2.00	ug/L	7/7/2015	16:00
1,2,3-Trichlorobenzene	< 5.00	ug/L	7/7/2015	16:00
1,2,4-Trichlorobenzene	< 5.00	ug/L	7/7/2015	16:00
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	7/7/2015	16:00
1,2-Dibromoethane	< 2.00	ug/L	7/7/2015	16:00
1,2-Dichlorobenzene	< 2.00	ug/L	7/7/2015	16:00
1,2-Dichloroethane	< 2.00	ug/L	7/7/2015	16:00
1,2-Dichloropropane	< 2.00	ug/L	7/7/2015	16:00
1,3-Dichlorobenzene	< 2.00	ug/L	7/7/2015	16:00
1,4-Dichlorobenzene	< 2.00	ug/L	7/7/2015	16:00
1,4-dioxane	< 20.0	ug/L	7/7/2015	16:00
2-Butanone	< 10.0	ug/L	7/7/2015	16:00
2-Hexanone	< 5.00	ug/L	7/7/2015	16:00
4-Methyl-2-pentanone	< 5.00	ug/L	7/7/2015	16:00
Acetone	< 10.0	ug/L	7/7/2015	16:00
Benzene	< 1.00	ug/L	7/7/2015	16:00
Bromochloromethane	< 5.00	ug/L	7/7/2015	16:00
Bromodichloromethane	< 2.00	ug/L	7/7/2015	16:00
Bromoform	< 5.00	ug/L	7/7/2015	16:00
Bromomethane	< 2.00	ug/L	7/7/2015	16:00
Carbon disulfide	< 2.00	ug/L	7/7/2015	16:00
Carbon Tetrachloride	< 2.00	ug/L	7/7/2015	16:00
Chlorobenzene	< 2.00	ug/L	7/7/2015	16:00
Chloroethane	< 2.00	ug/L	7/7/2015	16:00
Chloroform	< 2.00	ug/L	7/7/2015	16:00
Chloromethane	< 2.00	ug/L	7/7/2015	16:00
cis-1,2-Dichloroethene	**13.4**	ug/L	7/7/2015	16:00
cis-1,3-Dichloropropene	< 2.00	ug/L	7/7/2015	16:00
Cyclohexane	< 10.0	ug/L	7/7/2015	16:00
Dibromochloromethane	< 2.00	ug/L	7/7/2015	16:00
Dichlorodifluoromethane	< 2.00	ug/L	7/7/2015	16:00
Ethylbenzene	< 2.00	ug/L	7/7/2015	16:00

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152665

Client: **Fisher Associates**

Project Reference: Northland Ave Site 154034

Sample Identifier: NA-MW3-062915
Lab Sample ID: 152665-01 **Date Sampled:** 6/29/2015
Matrix: Groundwater **Date Received:** 6/30/2015

Freon 113	< 2.00	ug/L	7/7/2015	16:00
Isopropylbenzene	< 2.00	ug/L	7/7/2015	16:00
m,p-Xylene	< 2.00	ug/L	7/7/2015	16:00
Methyl acetate	< 2.00	ug/L	7/7/2015	16:00
Methyl tert-butyl Ether	< 2.00	ug/L	7/7/2015	16:00
Methylcyclohexane	< 2.00	ug/L	7/7/2015	16:00
Methylene chloride	< 5.00	ug/L	7/7/2015	16:00
o-Xylene	< 2.00	ug/L	7/7/2015	16:00
Styrene	< 5.00	ug/L	7/7/2015	16:00
Tetrachloroethene	< 2.00	ug/L	7/7/2015	16:00
Toluene	< 2.00	ug/L	7/7/2015	16:00
trans-1,2-Dichloroethene	< 2.00	ug/L	7/7/2015	16:00
trans-1,3-Dichloropropene	< 2.00	ug/L	7/7/2015	16:00
Trichloroethene	**28.0**	ug/L	7/7/2015	16:00
Trichlorofluoromethane	< 2.00	ug/L	7/7/2015	16:00
Vinyl chloride	< 2.00	ug/L	7/7/2015	16:00

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**103**	82.3 - 115		7/7/2015	16:00
4-Bromofluorobenzene	**89.8**	85.5 - 111		7/7/2015	16:00
Pentafluorobenzene	**105**	91.2 - 107		7/7/2015	16:00
Toluene-D8	**94.2**	90.9 - 108		7/7/2015	16:00

Method Reference(s): EPA 8260C
EPA 5030
Data File: x24365.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152665

Client: **Fisher Associates**

Project Reference: Northland Ave Site 154034

Sample Identifier: NA-MW2-062915
Lab Sample ID: 152665-02 **Date Sampled:** 6/29/2015
Matrix: Groundwater **Date Received:** 6/30/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		7/1/2015 16:44

Method Reference(s): EPA 7470A
Preparation Date: 7/1/2015
Data File: Hg150701B

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.0100	mg/L		7/1/2015 13:28
Barium	< 0.100	mg/L		7/1/2015 13:28
Cadmium	< 0.00500	mg/L		7/1/2015 13:28
Chromium	< 0.0100	mg/L		7/1/2015 13:28
Lead	< 0.0100	mg/L		7/1/2015 13:28
Selenium	**0.0118**	mg/L		7/2/2015 14:52
Silver	< 0.0100	mg/L		7/1/2015 13:28

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 6/30/2015
Data File: 070115b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 1.00	ug/L		7/6/2015 20:03
PCB-1221	< 1.00	ug/L		7/6/2015 20:03
PCB-1232	< 1.00	ug/L		7/6/2015 20:03
PCB-1242	< 1.00	ug/L		7/6/2015 20:03
PCB-1248	< 1.00	ug/L		7/6/2015 20:03
PCB-1254	< 1.00	ug/L		7/6/2015 20:03
PCB-1260	< 1.00	ug/L		7/6/2015 20:03
PCB-1262	< 1.00	ug/L		7/6/2015 20:03
PCB-1268	< 1.00	ug/L		7/6/2015 20:03

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152665

Client: **Fisher Associates**

Project Reference: Northland Ave Site 154034

Sample Identifier: NA-MW2-062915
Lab Sample ID: 152665-02 **Date Sampled:** 6/29/2015
Matrix: Groundwater **Date Received:** 6/30/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**79.3**	28.7 - 139		7/6/2015 20:03
Tetrachloro-m-xylene	**62.8**	0 - 110		7/6/2015 20:03

Method Reference(s): EPA 8082A
EPA 3510C
Preparation Date: 7/6/2015

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		7/2/2015 14:43
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		7/2/2015 14:43
1,2,4-Trichlorobenzene	< 10.0	ug/L		7/2/2015 14:43
1,2-Dichlorobenzene	< 10.0	ug/L		7/2/2015 14:43
1,3-Dichlorobenzene	< 10.0	ug/L		7/2/2015 14:43
1,4-Dichlorobenzene	< 10.0	ug/L		7/2/2015 14:43
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		7/2/2015 14:43
2,4,5-Trichlorophenol	< 20.0	ug/L		7/2/2015 14:43
2,4,6-Trichlorophenol	< 10.0	ug/L		7/2/2015 14:43
2,4-Dichlorophenol	< 10.0	ug/L		7/2/2015 14:43
2,4-Dimethylphenol	< 10.0	ug/L		7/2/2015 14:43
2,4-Dinitrophenol	< 20.0	ug/L		7/2/2015 14:43
2,4-Dinitrotoluene	< 10.0	ug/L		7/2/2015 14:43
2,6-Dinitrotoluene	< 10.0	ug/L		7/2/2015 14:43
2-Chloronaphthalene	< 10.0	ug/L		7/2/2015 14:43
2-Chlorophenol	< 10.0	ug/L		7/2/2015 14:43
2-Methylnapthalene	< 10.0	ug/L		7/2/2015 14:43
2-Methylphenol	< 10.0	ug/L		7/2/2015 14:43
2-Nitroaniline	< 20.0	ug/L		7/2/2015 14:43
2-Nitrophenol	< 10.0	ug/L		7/2/2015 14:43
3&4-Methylphenol	< 10.0	ug/L		7/2/2015 14:43
3,3'-Dichlorobenzidine	< 10.0	ug/L		7/2/2015 14:43
3-Nitroaniline	< 20.0	ug/L		7/2/2015 14:43
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		7/2/2015 14:43

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152665

Client: **Fisher Associates**

Project Reference: Northland Ave Site 154034

Sample Identifier:	NA-MW2-062915		
Lab Sample ID:	152665-02	**Date Sampled:**	6/29/2015
Matrix:	Groundwater	**Date Received:**	6/30/2015

4-Bromophenyl phenyl ether	< 10.0	ug/L	7/2/2015	14:43
4-Chloro-3-methylphenol	< 10.0	ug/L	7/2/2015	14:43
4-Chloroaniline	< 10.0	ug/L	7/2/2015	14:43
4-Chlorophenyl phenyl ether	< 10.0	ug/L	7/2/2015	14:43
4-Nitroaniline	< 20.0	ug/L	7/2/2015	14:43
4-Nitrophenol	< 20.0	ug/L	7/2/2015	14:43
Acenaphthene	< 10.0	ug/L	7/2/2015	14:43
Acenaphthylene	< 10.0	ug/L	7/2/2015	14:43
Acetophenone	< 10.0	ug/L	7/2/2015	14:43
Anthracene	< 10.0	ug/L	7/2/2015	14:43
Atrazine	< 10.0	ug/L	7/2/2015	14:43
Benzaldehyde	< 10.0	ug/L	7/2/2015	14:43
Benzo (a) anthracene	< 10.0	ug/L	7/2/2015	14:43
Benzo (a) pyrene	< 10.0	ug/L	7/2/2015	14:43
Benzo (b) fluoranthene	< 10.0	ug/L	7/2/2015	14:43
Benzo (g,h,i) perylene	< 10.0	ug/L	7/2/2015	14:43
Benzo (k) fluoranthene	< 10.0	ug/L	7/2/2015	14:43
Bis (2-chloroethoxy) methane	< 10.0	ug/L	7/2/2015	14:43
Bis (2-chloroethyl) ether	< 10.0	ug/L	7/2/2015	14:43
Bis (2-chloroisopropyl) ether	< 10.0	ug/L	7/2/2015	14:43
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	7/2/2015	14:43
Butylbenzylphthalate	< 10.0	ug/L	7/2/2015	14:43
Caprolactam	< 10.0	ug/L	7/2/2015	14:43
Carbazole	< 10.0	ug/L	7/2/2015	14:43
Chrysene	< 10.0	ug/L	7/2/2015	14:43
Dibenz (a,h) anthracene	< 10.0	ug/L	7/2/2015	14:43
Dibenzofuran	< 10.0	ug/L	7/2/2015	14:43
Diethyl phthalate	< 10.0	ug/L	7/2/2015	14:43
Dimethyl phthalate	< 20.0	ug/L	7/2/2015	14:43
Di-n-butyl phthalate	< 10.0	ug/L	7/2/2015	14:43
Di-n-octylphthalate	< 10.0	ug/L	7/2/2015	14:43
Fluoranthene	< 10.0	ug/L	7/2/2015	14:43

Sample Identifier: NA-MW2-062915
Lab Sample ID: 152665-02 **Date Sampled:** 6/29/2015
Matrix: Groundwater **Date Received:** 6/30/2015

Fluorene	< 10.0	ug/L		7/2/2015	14:43
Hexachlorobenzene	< 10.0	ug/L		7/2/2015	14:43
Hexachlorobutadiene	< 10.0	ug/L		7/2/2015	14:43
Hexachlorocyclopentadiene	< 10.0	ug/L		7/2/2015	14:43
Hexachloroethane	< 10.0	ug/L		7/2/2015	14:43
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L		7/2/2015	14:43
Isophorone	< 10.0	ug/L		7/2/2015	14:43
Naphthalene	< 10.0	ug/L		7/2/2015	14:43
Nitrobenzene	< 10.0	ug/L		7/2/2015	14:43
N-Nitroso-di-n-propylamine	< 10.0	ug/L		7/2/2015	14:43
N-Nitrosodiphenylamine	< 10.0	ug/L		7/2/2015	14:43
Pentachlorophenol	< 20.0	ug/L		7/2/2015	14:43
Phenanthrene	< 10.0	ug/L		7/2/2015	14:43
Phenol	< 10.0	ug/L		7/2/2015	14:43
Pyrene	< 10.0	ug/L		7/2/2015	14:43

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**92.4**	27.2 - 132		7/2/2015	14:43
2-Fluorobiphenyl	**73.1**	20.2 - 94.7		7/2/2015	14:43
2-Fluorophenol	**48.7**	5.5 - 92.9		7/2/2015	14:43
Nitrobenzene-d5	**87.7**	44.4 - 95.7		7/2/2015	14:43
Phenol-d5	**34.2**	0 - 90.8		7/2/2015	14:43
Terphenyl-d14	**89.6**	55.1 - 112		7/2/2015	14:43

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 7/2/2015
Data File: B06194.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 2.00	ug/L		7/7/2015	16:23
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/7/2015	16:23
1,1,2-Trichloroethane	< 2.00	ug/L		7/7/2015	16:23
1,1-Dichloroethane	< 2.00	ug/L		7/7/2015	16:23

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152665

Client: **Fisher Associates**

Project Reference: Northland Ave Site 154034

Sample Identifier:	NA-MW2-062915		
Lab Sample ID:	152665-02	**Date Sampled:**	6/29/2015
Matrix:	Groundwater	**Date Received:**	6/30/2015

1,1-Dichloroethene	< 2.00	ug/L	7/7/2015 16:23
1,2,3-Trichlorobenzene	< 5.00	ug/L	7/7/2015 16:23
1,2,4-Trichlorobenzene	< 5.00	ug/L	7/7/2015 16:23
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	7/7/2015 16:23
1,2-Dibromoethane	< 2.00	ug/L	7/7/2015 16:23
1,2-Dichlorobenzene	< 2.00	ug/L	7/7/2015 16:23
1,2-Dichloroethane	< 2.00	ug/L	7/7/2015 16:23
1,2-Dichloropropane	< 2.00	ug/L	7/7/2015 16:23
1,3-Dichlorobenzene	< 2.00	ug/L	7/7/2015 16:23
1,4-Dichlorobenzene	< 2.00	ug/L	7/7/2015 16:23
1,4-dioxane	< 20.0	ug/L	7/7/2015 16:23
2-Butanone	< 10.0	ug/L	7/7/2015 16:23
2-Hexanone	< 5.00	ug/L	7/7/2015 16:23
4-Methyl-2-pentanone	< 5.00	ug/L	7/7/2015 16:23
Acetone	< 10.0	ug/L	7/7/2015 16:23
Benzene	< 1.00	ug/L	7/7/2015 16:23
Bromochloromethane	< 5.00	ug/L	7/7/2015 16:23
Bromodichloromethane	< 2.00	ug/L	7/7/2015 16:23
Bromoform	< 5.00	ug/L	7/7/2015 16:23
Bromomethane	< 2.00	ug/L	7/7/2015 16:23
Carbon disulfide	< 2.00	ug/L	7/7/2015 16:23
Carbon Tetrachloride	< 2.00	ug/L	7/7/2015 16:23
Chlorobenzene	< 2.00	ug/L	7/7/2015 16:23
Chloroethane	< 2.00	ug/L	7/7/2015 16:23
Chloroform	< 2.00	ug/L	7/7/2015 16:23
Chloromethane	< 2.00	ug/L	7/7/2015 16:23
cis-1,2-Dichloroethene	< 2.00	ug/L	7/7/2015 16:23
cis-1,3-Dichloropropene	< 2.00	ug/L	7/7/2015 16:23
Cyclohexane	< 10.0	ug/L	7/7/2015 16:23
Dibromochloromethane	< 2.00	ug/L	7/7/2015 16:23
Dichlorodifluoromethane	< 2.00	ug/L	7/7/2015 16:23
Ethylbenzene	< 2.00	ug/L	7/7/2015 16:23

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152665

Client: **Fisher Associates**

Project Reference: Northland Ave Site 154034

Sample Identifier: NA-MW2-062915
Lab Sample ID: 152665-02 **Date Sampled:** 6/29/2015
Matrix: Groundwater **Date Received:** 6/30/2015

Freon 113	< 2.00	ug/L	7/7/2015	16:23
Isopropylbenzene	< 2.00	ug/L	7/7/2015	16:23
m,p-Xylene	< 2.00	ug/L	7/7/2015	16:23
Methyl acetate	< 2.00	ug/L	7/7/2015	16:23
Methyl tert-butyl Ether	< 2.00	ug/L	7/7/2015	16:23
Methylcyclohexane	**3.37**	ug/L	7/7/2015	16:23
Methylene chloride	< 5.00	ug/L	7/7/2015	16:23
o-Xylene	< 2.00	ug/L	7/7/2015	16:23
Styrene	< 5.00	ug/L	7/7/2015	16:23
Tetrachloroethene	< 2.00	ug/L	7/7/2015	16:23
Toluene	< 2.00	ug/L	7/7/2015	16:23
trans-1,2-Dichloroethene	< 2.00	ug/L	7/7/2015	16:23
trans-1,3-Dichloropropene	< 2.00	ug/L	7/7/2015	16:23
Trichloroethene	< 2.00	ug/L	7/7/2015	16:23
Trichlorofluoromethane	< 2.00	ug/L	7/7/2015	16:23
Vinyl chloride	< 2.00	ug/L	7/7/2015	16:23

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**105**	82.3 - 115		7/7/2015	16:23
4-Bromofluorobenzene	**88.1**	85.5 - 111		7/7/2015	16:23
Pentafluorobenzene	**103**	91.2 - 107		7/7/2015	16:23
Toluene-D8	**95.4**	90.9 - 108		7/7/2015	16:23

Method Reference(s): EPA 8260C
EPA 5030
Data File: x24366.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152665

Client: **Fisher Associates**

Project Reference: Northland Ave Site 154034

Sample Identifier: NA-MW1-062915
Lab Sample ID: 152665-03 **Date Sampled:** 6/29/2015
Matrix: Groundwater **Date Received:** 6/30/2015

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		7/1/2015 16:47

Method Reference(s): EPA 7470A
Preparation Date: 7/1/2015
Data File: Hg150701B

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.0100	mg/L		7/1/2015 13:32
Barium	< 0.100	mg/L		7/1/2015 13:32
Cadmium	< 0.00500	mg/L		7/1/2015 13:32
Chromium	< 0.0100	mg/L		7/1/2015 13:32
Lead	< 0.0100	mg/L		7/1/2015 13:32
Selenium	< 0.0100	mg/L		7/1/2015 13:32
Silver	< 0.0100	mg/L		7/1/2015 13:32

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 6/30/2015
Data File: 070115b

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 1.00	ug/L		7/6/2015 20:27
PCB-1221	< 1.00	ug/L		7/6/2015 20:27
PCB-1232	< 1.00	ug/L		7/6/2015 20:27
PCB-1242	< 1.00	ug/L		7/6/2015 20:27
PCB-1248	< 1.00	ug/L		7/6/2015 20:27
PCB-1254	< 1.00	ug/L		7/6/2015 20:27
PCB-1260	< 1.00	ug/L		7/6/2015 20:27
PCB-1262	< 1.00	ug/L		7/6/2015 20:27
PCB-1268	< 1.00	ug/L		7/6/2015 20:27

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152665

Client: **Fisher Associates**

Project Reference: Northland Ave Site 154034

Sample Identifier: NA-MW1-062915
Lab Sample ID: 152665-03 **Date Sampled:** 6/29/2015
Matrix: Groundwater **Date Received:** 6/30/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**84.3**	28.7 - 139		7/6/2015 20:27
Tetrachloro-m-xylene	**67.2**	0 - 110		7/6/2015 20:27

Method Reference(s): EPA 8082A
EPA 3510C
Preparation Date: 7/6/2015

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		7/2/2015 15:12
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		7/2/2015 15:12
1,2,4-Trichlorobenzene	< 10.0	ug/L		7/2/2015 15:12
1,2-Dichlorobenzene	< 10.0	ug/L		7/2/2015 15:12
1,3-Dichlorobenzene	< 10.0	ug/L		7/2/2015 15:12
1,4-Dichlorobenzene	< 10.0	ug/L		7/2/2015 15:12
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		7/2/2015 15:12
2,4,5-Trichlorophenol	< 20.0	ug/L		7/2/2015 15:12
2,4,6-Trichlorophenol	< 10.0	ug/L		7/2/2015 15:12
2,4-Dichlorophenol	< 10.0	ug/L		7/2/2015 15:12
2,4-Dimethylphenol	< 10.0	ug/L		7/2/2015 15:12
2,4-Dinitrophenol	< 20.0	ug/L		7/2/2015 15:12
2,4-Dinitrotoluene	< 10.0	ug/L		7/2/2015 15:12
2,6-Dinitrotoluene	< 10.0	ug/L		7/2/2015 15:12
2-Chloronaphthalene	< 10.0	ug/L		7/2/2015 15:12
2-Chlorophenol	< 10.0	ug/L		7/2/2015 15:12
2-Methylnapthalene	< 10.0	ug/L		7/2/2015 15:12
2-Methylphenol	< 10.0	ug/L		7/2/2015 15:12
2-Nitroaniline	< 20.0	ug/L		7/2/2015 15:12
2-Nitrophenol	< 10.0	ug/L		7/2/2015 15:12
3&4-Methylphenol	< 10.0	ug/L		7/2/2015 15:12
3,3'-Dichlorobenzidine	< 10.0	ug/L		7/2/2015 15:12
3-Nitroaniline	< 20.0	ug/L		7/2/2015 15:12
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		7/2/2015 15:12

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152665

Client: **Fisher Associates**

Project Reference: Northland Ave Site 154034

Sample Identifier:	NA-MW1-062915		
Lab Sample ID:	152665-03	**Date Sampled:**	6/29/2015
Matrix:	Groundwater	**Date Received:**	6/30/2015

4-Bromophenyl phenyl ether	< 10.0	ug/L	7/2/2015	15:12
4-Chloro-3-methylphenol	< 10.0	ug/L	7/2/2015	15:12
4-Chloroaniline	< 10.0	ug/L	7/2/2015	15:12
4-Chlorophenyl phenyl ether	< 10.0	ug/L	7/2/2015	15:12
4-Nitroaniline	< 20.0	ug/L	7/2/2015	15:12
4-Nitrophenol	< 20.0	ug/L	7/2/2015	15:12
Acenaphthene	< 10.0	ug/L	7/2/2015	15:12
Acenaphthylene	< 10.0	ug/L	7/2/2015	15:12
Acetophenone	< 10.0	ug/L	7/2/2015	15:12
Anthracene	< 10.0	ug/L	7/2/2015	15:12
Atrazine	< 10.0	ug/L	7/2/2015	15:12
Benzaldehyde	< 10.0	ug/L	7/2/2015	15:12
Benzo (a) anthracene	< 10.0	ug/L	7/2/2015	15:12
Benzo (a) pyrene	< 10.0	ug/L	7/2/2015	15:12
Benzo (b) fluoranthene	< 10.0	ug/L	7/2/2015	15:12
Benzo (g,h,i) perylene	< 10.0	ug/L	7/2/2015	15:12
Benzo (k) fluoranthene	< 10.0	ug/L	7/2/2015	15:12
Bis (2-chloroethoxy) methane	< 10.0	ug/L	7/2/2015	15:12
Bis (2-chloroethyl) ether	< 10.0	ug/L	7/2/2015	15:12
Bis (2-chloroisopropyl) ether	< 10.0	ug/L	7/2/2015	15:12
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	7/2/2015	15:12
Butylbenzylphthalate	< 10.0	ug/L	7/2/2015	15:12
Caprolactam	< 10.0	ug/L	7/2/2015	15:12
Carbazole	< 10.0	ug/L	7/2/2015	15:12
Chrysene	< 10.0	ug/L	7/2/2015	15:12
Dibenz (a,h) anthracene	< 10.0	ug/L	7/2/2015	15:12
Dibenzofuran	< 10.0	ug/L	7/2/2015	15:12
Diethyl phthalate	< 10.0	ug/L	7/2/2015	15:12
Dimethyl phthalate	< 20.0	ug/L	7/2/2015	15:12
Di-n-butyl phthalate	< 10.0	ug/L	7/2/2015	15:12
Di-n-octylphthalate	< 10.0	ug/L	7/2/2015	15:12
Fluoranthene	< 10.0	ug/L	7/2/2015	15:12

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152665

Client: **Fisher Associates**

Project Reference: Northland Ave Site 154034

Sample Identifier: NA-MW1-062915
Lab Sample ID: 152665-03 **Date Sampled:** 6/29/2015
Matrix: Groundwater **Date Received:** 6/30/2015

Fluorene	< 10.0	ug/L		7/2/2015 15:12
Hexachlorobenzene	< 10.0	ug/L		7/2/2015 15:12
Hexachlorobutadiene	< 10.0	ug/L		7/2/2015 15:12
Hexachlorocyclopentadiene	< 10.0	ug/L		7/2/2015 15:12
Hexachloroethane	< 10.0	ug/L		7/2/2015 15:12
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L		7/2/2015 15:12
Isophorone	< 10.0	ug/L		7/2/2015 15:12
Naphthalene	< 10.0	ug/L		7/2/2015 15:12
Nitrobenzene	< 10.0	ug/L		7/2/2015 15:12
N-Nitroso-di-n-propylamine	< 10.0	ug/L		7/2/2015 15:12
N-Nitrosodiphenylamine	< 10.0	ug/L		7/2/2015 15:12
Pentachlorophenol	< 20.0	ug/L		7/2/2015 15:12
Phenanthrene	< 10.0	ug/L		7/2/2015 15:12
Phenol	< 10.0	ug/L		7/2/2015 15:12
Pyrene	< 10.0	ug/L		7/2/2015 15:12

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**87.3**	27.2 - 132		7/2/2015 15:12
2-Fluorobiphenyl	**61.7**	20.2 - 94.7		7/2/2015 15:12
2-Fluorophenol	**49.4**	5.5 - 92.9		7/2/2015 15:12
Nitrobenzene-d5	**81.8**	44.4 - 95.7		7/2/2015 15:12
Phenol-d5	**32.4**	0 - 90.8		7/2/2015 15:12
Terphenyl-d14	**84.4**	55.1 - 112		7/2/2015 15:12

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 7/2/2015
Data File: B06195.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		7/7/2015 16:47
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/7/2015 16:47
1,1,2-Trichloroethane	< 2.00	ug/L		7/7/2015 16:47
1,1-Dichloroethane	< 2.00	ug/L		7/7/2015 16:47

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152665

Client: **Fisher Associates**

Project Reference: Northland Ave Site 154034

Sample Identifier:	NA-MW1-062915		
Lab Sample ID:	152665-03	**Date Sampled:**	6/29/2015
Matrix:	Groundwater	**Date Received:**	6/30/2015

1,1-Dichloroethene	< 2.00	ug/L	7/7/2015 16:47
1,2,3-Trichlorobenzene	< 5.00	ug/L	7/7/2015 16:47
1,2,4-Trichlorobenzene	< 5.00	ug/L	7/7/2015 16:47
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	7/7/2015 16:47
1,2-Dibromoethane	< 2.00	ug/L	7/7/2015 16:47
1,2-Dichlorobenzene	< 2.00	ug/L	7/7/2015 16:47
1,2-Dichloroethane	< 2.00	ug/L	7/7/2015 16:47
1,2-Dichloropropane	< 2.00	ug/L	7/7/2015 16:47
1,3-Dichlorobenzene	< 2.00	ug/L	7/7/2015 16:47
1,4-Dichlorobenzene	< 2.00	ug/L	7/7/2015 16:47
1,4-dioxane	< 20.0	ug/L	7/7/2015 16:47
2-Butanone	< 10.0	ug/L	7/7/2015 16:47
2-Hexanone	< 5.00	ug/L	7/7/2015 16:47
4-Methyl-2-pentanone	< 5.00	ug/L	7/7/2015 16:47
Acetone	< 10.0	ug/L	7/7/2015 16:47
Benzene	< 1.00	ug/L	7/7/2015 16:47
Bromochloromethane	< 5.00	ug/L	7/7/2015 16:47
Bromodichloromethane	< 2.00	ug/L	7/7/2015 16:47
Bromoform	< 5.00	ug/L	7/7/2015 16:47
Bromomethane	< 2.00	ug/L	7/7/2015 16:47
Carbon disulfide	< 2.00	ug/L	7/7/2015 16:47
Carbon Tetrachloride	< 2.00	ug/L	7/7/2015 16:47
Chlorobenzene	< 2.00	ug/L	7/7/2015 16:47
Chloroethane	< 2.00	ug/L	7/7/2015 16:47
Chloroform	< 2.00	ug/L	7/7/2015 16:47
Chloromethane	< 2.00	ug/L	7/7/2015 16:47
cis-1,2-Dichloroethene	< 2.00	ug/L	7/7/2015 16:47
cis-1,3-Dichloropropene	< 2.00	ug/L	7/7/2015 16:47
Cyclohexane	< 10.0	ug/L	7/7/2015 16:47
Dibromochloromethane	< 2.00	ug/L	7/7/2015 16:47
Dichlorodifluoromethane	< 2.00	ug/L	7/7/2015 16:47
Ethylbenzene	< 2.00	ug/L	7/7/2015 16:47

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152665

Client: **Fisher Associates**

Project Reference: Northland Ave Site 154034

Sample Identifier: NA-MW1-062915
Lab Sample ID: 152665-03 **Date Sampled:** 6/29/2015
Matrix: Groundwater **Date Received:** 6/30/2015

Freon 113	< 2.00	ug/L	7/7/2015	16:47
Isopropylbenzene	< 2.00	ug/L	7/7/2015	16:47
m,p-Xylene	< 2.00	ug/L	7/7/2015	16:47
Methyl acetate	< 2.00	ug/L	7/7/2015	16:47
Methyl tert-butyl Ether	< 2.00	ug/L	7/7/2015	16:47
Methylcyclohexane	< 2.00	ug/L	7/7/2015	16:47
Methylene chloride	< 5.00	ug/L	7/7/2015	16:47
o-Xylene	< 2.00	ug/L	7/7/2015	16:47
Styrene	< 5.00	ug/L	7/7/2015	16:47
Tetrachloroethene	< 2.00	ug/L	7/7/2015	16:47
Toluene	< 2.00	ug/L	7/7/2015	16:47
trans-1,2-Dichloroethene	< 2.00	ug/L	7/7/2015	16:47
trans-1,3-Dichloropropene	< 2.00	ug/L	7/7/2015	16:47
Trichloroethene	< 2.00	ug/L	7/7/2015	16:47
Trichlorofluoromethane	< 2.00	ug/L	7/7/2015	16:47
Vinyl chloride	< 2.00	ug/L	7/7/2015	16:47

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**104**	82.3 - 115		7/7/2015	16:47
4-Bromofluorobenzene	**89.7**	85.5 - 111		7/7/2015	16:47
Pentafluorobenzene	**102**	91.2 - 107		7/7/2015	16:47
Toluene-D8	**94.1**	90.9 - 108		7/7/2015	16:47

Method Reference(s): EPA 8260C
EPA 5030
Data File: x24367.D

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:	
CLIENT:	Fisher Associates	CLIENT:	Same
ADDRESS:	135 Calkins Road	ADDRESS:	
CITY:	Rochester STATE: NY ZIP: 14623	CITY: STATE: ZIP:	
PHONE:	(585) 362-6377	PHONE:	
ATTN:	James A Moore	ATTN:	

LAB PROJECT ID: 152665

Quotation #:

Email: jmoore@fisherassoc.com

PROJECT REFERENCE

154034
Northland Ave Site

Matrix Codes:

AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	VOC TCL 8260+TICs	SVOC TCL 8270	RCRA METALS	PCBs	Oil & Grease						REMARKS	PARADIGM LAB SAMPLE NUMBER	
1	6/29/15	1105		X	NA-MW3-062915	WG	5	X	X	X	X	X							01	1
2	6/29/15	1305		X	NA-MW2-062915	WG	5	X	X	X	X	X							01	2
3	6/29/15	1410		X	NA-MW1-062915	WG	5	X	X	X	X	X							01	3
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	
Rush 2 day		Category B			
Rush 1 day					
Other please indicate:		Other please indicate:		Other EDD please indicate:	

Sampled By: James A Moore	6/29/15 1500	Date/Time
Relinquished By:	6/30/15 0810	Date/Time
Received By:	6/30/15 08:10	Date/Time
Received @ Lab By:	6/30/15 1112	Date/Time

Total Cost:

P.I.F.

4°C iced 6/30/15 09:25

Chain of Custody Supplement

Client: Fisher Assoc. **Completed by:** MollKail

Lab Project ID: 152665 **Date:** 6/30/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X		
Comments			
Preservation	X		X PCB, SVOA
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		X met
Comments	4°C iced 6/30/15 0925		
Sufficient Sample Quantity	X		
Comments			

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

Please Reply To:

AMERI SCI

AmeriSci Richmond
13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

FACSIMILE TELECOPY TRANSMISSION

To: Mark Stein
Fisher Associates
Fax #:

Email: MStein@FisherAssoc.com

From: Donna M. Blackwell
AmeriSci Job #: 115071148
Subject: ELAP-PLM/TEM 5 day Results
Client Project: 154034; 631 Northland; 631 Northland Ave, NY

Date: Monday, July 06, 2015
Time: 19:50:15
Comments:

Number of Pages: 14
(including cover sheet)

CONFIDENTIALITY NOTICE: Unless otherwise indicated, the information contained in this communication is confidential information intended for use of the individual named above. If the reader of this communication is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is prohibited. If you have received this communication in error, please immediately notify the sender by telephone and return the original message to the above address via the US Postal Service at our expense. Preliminary data reported here will be verified before final report is issued. Samples are disposed of in 60 days or unless otherwise instructed by the protocol or special instructions in writing. Thank you.

AmeriSci Job #: **115071148**

Client Name: Fisher Associates

Table I
Summary of Bulk Asbestos Analysis Results
154034; 631 Northland; 631 Northland Ave, NY

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01	1-A	1	0.264	7.9	86.0	5.9	Chrysotile <0.25	Chrysotile Trace
Location:	Exterior Window; White Window Glaze							
02	1-B	1	0.160	8.2	87.6	4.1	Chrysotile <0.25	Chrysotile Trace
Location:	Exterior Window; White Window Glaze							
03	2-A	2	0.162	15.9	79.4	4.7	NAD	Chrysotile Trace
Location:	Exterior West Side; White Expansion Joint Caulk							
04	2-B	2	0.197	16.1	80.4	3.4	NAD	NAD
Location:	Exterior West Side; White Expansion Joint Caulk							
05	3-A	3	0.250	39.5	56.1	4.3	NAD	Chrysotile Trace
Location:	West Side Bay Garage Door; Bay Door Caulk Grey							
06	3-B	3	0.199	39.7	55.1	5.0	Chrysotile <1	Chrysotile Trace
Location:	West Side Bay Garage Door; Bay Door Caulk Grey "Total Asbestos Concentration For Multiple Asbestos Types Present Is Less Than							Actinolite Trace
07	4-A	4	----	----	----	----	Chrysotile 2.0	NA
Location:	Exterior Furnace; Hard Insulation White							
08	4-B	4	----	----	----	----	NA/PS	NA
Location:	Exterior Furnace; Hard Insulation White							
09	5-A	5	----	----	----	----	NAD	NA
Location:	Exterior Furnace; Fluffy Insulation White							
10	5-B	5	----	----	----	----	NAD	NA
Location:	Exterior Furnace; Fluffy Insulation White							
11	6-A		----	----	----	----	Chrysotile 17.6	NA
Location:	Interior Ceiling Mount; White Steam Pipe Insulation						Amosite 5.9	
12	7-A	6	0.154	10.2	82.9	6.7	Chrysotile <1	Chrysotile Trace
Location:	Interior Window; Grey Window Glaze "Total Asbestos Concentration For Multiple Asbestos Types Present Is Less Than 1%"							Anthophyllite Trace
13	7-B	6	0.291	10.7	82.0	7.1	Tremolite <0.25	Chrysotile Trace
Location:	Interior Window; Grey Window Glaze "Total Asbestos Concentration For Multiple Asbestos Types Present Is Less Than 1%"						Chrysotile <0.25	Anthophyllite Trace
14	8-A	7	0.128	68.7	2.7	28.5	NAD	NAD
Location:	Roof; Top Layer Ballast Tar							
15	8-B	7	0.093	88.0	3.0	9.0	NAD	NAD
Location:	Roof; Top Layer Ballast Tar							
16	9-A	8	0.140	93.8	2.1	4.1	NAD	NAD
Location:	Roof; Tar Paper Top Layer							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results
154034; 631 Northland; 631 Northland Ave, NY

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
17	9-B	8	0.134	90.2	2.2	7.6	NAD	NAD
Location:	Roof; Tar Paper Top Layer							
18	10-A	9	0.090	93.9	2.6	3.6	NAD	NAD
Location:	Roof; Black Tar Paper Lower Layer							
19	10-B	9	0.153	66.3	2.4	31.3	NAD	NAD
Location:	Roof; Black Tar Paper Lower Layer							
20	11-A	10	0.196	52.0	2.8	45.0	NAD	Chrysotile Trace
Location:	Roof; Black Bottom Layer Tar							
21	11-B	10	0.157	61.8	2.5	35.7	NAD	NAD
Location:	Roof; Black Bottom Layer Tar							
22	12-A	11	0.068	98.4	1.5	0.1	NAD	NAD
Location:	Roof; Brown "Cork Like" Insulation							
23	12-B	11	0.074	97.3	2.6	0.1	NAD	NAD
Location:	Roof; Brown "Cork Like" Insulation							
24	13-A	12	0.223	74.8	4.1	18.8	Chrysotile 2.3	NA
Location:	Roof; Black Flashing Cement On Doors & Equipment							
25	13-B	12	0.259	70.4	4.7	24.8	NA/PS	NA
Location:	Roof; Black Flashing Cement On Doors & Equipment							
26	14-A	13	0.348	52.4	20.4	27.3	NAD	NAD
Location:	Roof; Grey Door Caulk							
27	14-B	13	0.301	45.2	20.1	34.7	NAD	NAD
Location:	Roof; Grey Door Caulk							
28	15-A		----	----	----	----	Chrysotile 36.4	NA
Location:	Interior Floor Near Furnace; White Rope/Gasket							
29	16-A	14	----	----	----	----	NAD	NA
Location:	Main Floor Bathroom; Brown Quarry Tile							
30	16-B	14	----	----	----	----	NAD	NA
Location:	Main Floor Bathroom; Brown Quarry Tile							
31	17-A	15	----	----	----	----	NAD	NA
Location:	Main Floor Bathroom; Grey Grout							
32	17-B	15	----	----	----	----	NAD	NA
Location:	Main Floor Bathroom; Grey Grout							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results
154034; 631 Northland; 631 Northland Ave, NY

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
33	18-A	16	----	----	----	----	NAD	NA
Location:	Main Floor Bathroom; Grey Set							
34	18-B	16	----	----	----	----	NAD	NA
Location:	Main Floor Bathroom; Grey Set							

Reviewed by: _____ Date Reviewed: _____ Analyzed By: Beverly A. Schrage Date Analyzed: 7/7/2015

Semi-Quantitative Analysis: NAD = no asbestos detected; NA = not analyzed; NA/PS = not analyzed due to positive stop; Trace = <1%;
PLM analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) or NY ELAP 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NY ELAP Lab # 10984);
TEM analysis by EPA 600/R-93/116 (not covered by NVLAP Bulk accreditation); or NY ELAP 198.4 for New York NOB samples (NY ELAP Lab # 10984);

** Warning Notes: Consider PLM fiber diameter limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris, soils or other heterogeneous materials for which a combination PLM/TEM evaluation is recommended; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only.

AmeriSci Richmond
13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

PLM Bulk Asbestos Report

Fisher Associates
Attn: Mark Stein
135 Calkins Road, Suite A

Rochester, NY 14623

Date Received 07/02/15 **AmeriSci Job #** 115071148
Date Examined 07/06/15 **P.O. #**
ELAP # 10984 **Page** 1 **of** 8
RE: 154034; 631 Northland; 631 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
1-A	115071148-01	*Yes*	Trace (<0.25 % pc)
1	**Location:** Exterior Window; White Window Glaze		(EPA 400 PC) by Donna M. Blackwell on 07/06/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile <0.25 % pc **Other Material:** Non-fibrous 5.9 % **Comment:** Heat Sensitive (organic): 7.9%; Acid Soluble (inorganic): 86.0%; Inert (Non-asbestos): 5.9%			
1-B	115071148-02	*Yes*	Trace (<0.25 % pc)
1	**Location:** Exterior Window; White Window Glaze		(EPA 400 PC) by Donna M. Blackwell on 07/06/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile <0.25 % pc **Other Material:** Non-fibrous 4.1 % **Comment:** Heat Sensitive (organic): 8.2%; Acid Soluble (inorganic): 87.6%; Inert (Non-asbestos): 4.1%			
2-A	115071148-03	*No*	NAD
2	**Location:** Exterior West Side; White Expansion Joint Caulk		(by NYS ELAP 198.6) by Donna M. Blackwell on 07/06/15
Analyst Description: White/Brown, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 4.8 % **Comment:** Heat Sensitive (organic): 15.9%; Acid Soluble (inorganic): 79.4%; Inert (Non-asbestos): 4.8%			
2-B	115071148-04	*No*	NAD
2	**Location:** Exterior West Side; White Expansion Joint Caulk		(by NYS ELAP 198.6) by Donna M. Blackwell on 07/06/15
Analyst Description: White/Brown, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 3.4 % **Comment:** Heat Sensitive (organic): 16.1%; Acid Soluble (inorganic): 80.4%; Inert (Non-asbestos): 3.4%			

See Reporting notes on last page

PLM Bulk Asbestos Report

154034; 631 Northland; 631 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
3-A	115071148-05	***No***	NAD
3	**Location:** West Side Bay Garage Door; Bay Door Caulk Grey		(by NYS ELAP 198.6) by Donna M. Blackwell on 07/06/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 4.4 %			
Comment: Heat Sensitive (organic): 39.5%; Acid Soluble (inorganic): 56.1%; Inert (Non-asbestos): 4.4%			
3-B	115071148-06	***Yes***	Trace (<1 %)
3	**Location:** West Side Bay Garage Door; Bay Door Caulk Grey		(by NYS ELAP 198.6) by Donna M. Blackwell on 07/06/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile <1 % pc			
Other Material: Non-fibrous 4.9 %			
Comment: Heat Sensitive (organic): 39.7%; Acid Soluble (inorganic): 55.1%; Inert (Non-asbestos): 4.9%			
4-A	115071148-07	***Yes***	2 %
4	**Location:** Exterior Furnace; Hard Insulation White		(by NYS ELAP 198.1) by Donna M. Blackwell on 07/06/15
Analyst Description: Off White, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types: Chrysotile 2.0 %			
Other Material: Non-fibrous 98 %			
4-B	115071148-08		NA/PS
4	**Location:** Exterior Furnace; Hard Insulation White		
Analyst Description: Bulk Material			
Asbestos Types:			
Other Material:			
5-A	115071148-09	***No***	NAD
5	**Location:** Exterior Furnace; Fluffy Insulation White		(by NYS ELAP 198.1) by Donna M. Blackwell on 07/06/15
Analyst Description: Off White, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Fibrous glass 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

154034; 631 Northland; 631 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
5-B 5	115071148-10 **Location:** Exterior Furnace; Fluffy Insulation White	***No***	NAD (by NYS ELAP 198.1) by Donna M. Blackwell on 07/06/15
Analyst Description: Off White, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 100 %			
6-A	115071148-11 **Location:** Interior Ceiling Mount; White Steam Pipe Insulation	***Yes***	23.5 % (by NYS ELAP 198.1) by Donna M. Blackwell on 07/06/15
Analyst Description: White, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** Chrysotile 17.6 %, Amosite 5.9 % **Other Material:** Cellulose 20 %, Non-fibrous 56.5 %			
7-A 6	115071148-12 **Location:** Interior Window; Grey Window Glaze	***Yes***	Trace (<1 %) (by NYS ELAP 198.6) by Donna M. Blackwell on 07/06/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile <1 % pc **Other Material:** Non-fibrous 6.6 % **Comment:** Heat Sensitive (organic): 10.2%; Acid Soluble (inorganic): 82.9%; Inert (Non-asbestos): 6.6%			
7-B 6	115071148-13 **Location:** Interior Window; Grey Window Glaze	***Yes***	Trace (<0.25 % pc) (EPA 400 PC) by Donna M. Blackwell on 07/06/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Tremolite <0.25 % pc, Chrysotile <0.25 % pc **Other Material:** Non-fibrous 7.2 % **Comment:** Heat Sensitive (organic): 10.7%; Acid Soluble (inorganic): 82.0%; Inert (Non-asbestos): 7.2%			
8-A 7	115071148-14 **Location:** Roof; Top Layer Ballast Tar	***No***	NAD (by NYS ELAP 198.6) by Donna M. Blackwell on 07/06/15
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 28.5 % **Comment:** Heat Sensitive (organic): 68.7%; Acid Soluble (inorganic): 2.7%; Inert (Non-asbestos): 28.5%			

See Reporting notes on last page

PLM Bulk Asbestos Report

154034; 631 Northland; 631 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8-B 7	115071148-15 **Location:** Roof; Top Layer Ballast Tar	***No***	NAD (by NYS ELAP 198.6) by Donna M. Blackwell on 07/06/15
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 9 % **Comment:** Heat Sensitive (organic): 88.0%; Acid Soluble (inorganic): 3.0%; Inert (Non-asbestos): 9.0%			
9-A 8	115071148-16 **Location:** Roof; Tar Paper Top Layer	***No***	NAD (by NYS ELAP 198.6) by Donna M. Blackwell on 07/06/15
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 4.1 % **Comment:** Heat Sensitive (organic): 93.8%; Acid Soluble (inorganic): 2.1%; Inert (Non-asbestos): 4.1%			
9-B 8	115071148-17 **Location:** Roof; Tar Paper Top Layer	***No***	NAD (by NYS ELAP 198.6) by Donna M. Blackwell on 07/06/15
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 7.6 % **Comment:** Heat Sensitive (organic): 90.2%; Acid Soluble (inorganic): 2.2%; Inert (Non-asbestos): 7.6%			
10-A 9	115071148-18 **Location:** Roof; Black Tar Paper Lower Layer	***No***	NAD (by NYS ELAP 198.6) by Donna M. Blackwell on 07/06/15
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 3.6 % **Comment:** Heat Sensitive (organic): 93.9%; Acid Soluble (inorganic): 2.6%; Inert (Non-asbestos): 3.6%			
10-B 9	115071148-19 **Location:** Roof; Black Tar Paper Lower Layer	***No***	NAD (by NYS ELAP 198.6) by Donna M. Blackwell on 07/06/15
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 31.3 % **Comment:** Heat Sensitive (organic): 66.3%; Acid Soluble (inorganic): 2.4%; Inert (Non-asbestos): 31.3%			

See Reporting notes on last page

PLM Bulk Asbestos Report

154034; 631 Northland; 631 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
11-A	115071148-20	***No***	NAD
10	**Location:** Roof; Black Bottom Layer Tar		(by NYS ELAP 198.6) by Donna M. Blackwell on 07/06/15
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 45.1 %			
Comment: Heat Sensitive (organic): 52.0%; Acid Soluble (inorganic): 2.8%; Inert (Non-asbestos): 45.1%			
11-B	115071148-21	***No***	NAD
10	**Location:** Roof; Black Bottom Layer Tar		(by NYS ELAP 198.6) by Donna M. Blackwell on 07/06/15
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 35.7 %			
Comment: Heat Sensitive (organic): 61.8%; Acid Soluble (inorganic): 2.5%; Inert (Non-asbestos): 35.7%			
12-A	115071148-22	***No***	NAD
11	**Location:** Roof; Brown "Cork Like" Insulation		(by NYS ELAP 198.6) by Donna M. Blackwell on 07/06/15
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 0.1 %			
Comment: Heat Sensitive (organic): 98.4%; Acid Soluble (inorganic): 1.5%; Inert (Non-asbestos): 0.1%			
12-B	115071148-23	***No***	NAD
11	**Location:** Roof; Brown "Cork Like" Insulation		(by NYS ELAP 198.6) by Donna M. Blackwell on 07/06/15
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 0.1 %			
Comment: Heat Sensitive (organic): 97.3%; Acid Soluble (inorganic): 2.6%; Inert (Non-asbestos): 0.1%			
13-A	115071148-24	***Yes***	2.3 %
12	**Location:** Roof; Black Flashing Cement On Doors & Equipment		(by NYS ELAP 198.6) by Donna M. Blackwell on 07/06/15
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile 2.3 %			
Other Material: Non-fibrous 18.8 %			
Comment: Heat Sensitive (organic): 74.8%; Acid Soluble (inorganic): 4.1%; Inert (Non-asbestos): 18.8%			

See Reporting notes on last page

PLM Bulk Asbestos Report

154034; 631 Northland; 631 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
13-B	115071148-25		NA/PS
12	**Location:** Roof; Black Flashing Cement On Doors & Equipment		
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:** **Comment:** Heat Sensitive (organic): 70.4%; Acid Soluble (inorganic): 4.7%; Inert (Non-asbestos): 24.8%			
14-A	115071148-26	***No***	NAD
13	**Location:** Roof; Grey Door Caulk		(by NYS ELAP 198.6) by Donna M. Blackwell on 07/06/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 27.3 % **Comment:** Heat Sensitive (organic): 52.4%; Acid Soluble (inorganic): 20.4%; Inert (Non-asbestos): 27.3%			
14-B	115071148-27	***No***	NAD
13	**Location:** Roof; Grey Door Caulk		(by NYS ELAP 198.6) by Donna M. Blackwell on 07/06/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 34.7 % **Comment:** Heat Sensitive (organic): 45.2%; Acid Soluble (inorganic): 20.1%; Inert (Non-asbestos): 34.7%			
15-A	115071148-28	***Yes***	36.4 %
	Location: Interior Floor Near Furnace; White Rope/Gasket		(by NYS ELAP 198.1) by Donna M. Blackwell on 07/06/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 36.4 % **Other Material:** Non-fibrous 63.6 %			
16-A	115071148-29	***No***	NAD
14	**Location:** Main Floor Bathroom; Brown Quarry Tile		(by NYS ELAP 198.1) by Donna M. Blackwell on 07/06/15
Analyst Description: Brown, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

154034; 631 Northland; 631 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
16-B 14	115071148-30 **Location:** Main Floor Bathroom; Brown Quarry Tile	***No***	NAD (by NYS ELAP 198.1) by Donna M. Blackwell on 07/06/15
Analyst Description: Brown, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
17-A 15	115071148-31 **Location:** Main Floor Bathroom; Grey Grout	***No***	NAD (by NYS ELAP 198.1) by Donna M. Blackwell on 07/06/15
Analyst Description: Gray, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
17-B 15	115071148-32 **Location:** Main Floor Bathroom; Grey Grout	***No***	NAD (by NYS ELAP 198.1) by Donna M. Blackwell on 07/06/15
Analyst Description: Gray, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
18-A 16	115071148-33 **Location:** Main Floor Bathroom; Grey Set	***No***	NAD (by NYS ELAP 198.1) by Donna M. Blackwell on 07/06/15
Analyst Description: Gray, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
18-B 16	115071148-34 **Location:** Main Floor Bathroom; Grey Set	***No***	NAD (by NYS ELAP 198.1) by Donna M. Blackwell on 07/06/15
Analyst Description: Gray, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

154034; 631 Northland; 631 Northland Ave, NY

Reporting Notes:

Analyzed by: Donna M. Blackwell Donna M Blackwell Date 7/6/15

*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By:_____

115071148

Relinquished By: _____ Date/Time: 6/28/15

Received By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

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BULK CHAIN OF CUSTODY

AMERISCI RICHMOND
13635 GENITO ROAD
MIDLOTHIAN, VA 23112
TOLL FREE: (800) 476-5227
PHONE: (804) 763-1200
FAX: (804) 763-1800

Company: Fisher Associates

Street Address: 135 Calkins Road

City: Rochester State: NY Zip: 14623

Phone: 585-334-1310 Fax: 585-334-1361

Cell: 585-353-4731 Fax:

E-mail mstein@fisherassoc.com Verbal Results: Y / N

Results to: Mark Stein

Project: 631 NORTHLAND AMERISCI #:

Proj Mgr: MARK STEIN Proj #: 154034

Proj Address: 631 NORTHLAND Proj State: NY

Analysis: __PLM; __ Positive Stop; __TEM; X NY ELAP PLM/TEM w/ NOB Prep.

ASTM Dust __ (Microvac) __ (Wipe); __ Qualitative; __ Other (describe in comments)

Turnaround Time: 5-DAY Material Type: X Bulk __ Dust __ Water

Sampled By: MTS Date Sampled: 6/24/15

Special Instructions or Comments:

STOP POSITIVE

Lab ID	Field ID	Location	Sample Description (dust area)	Homogenous Area
	1-A	EXTERIOR WINDOW	WHITE WINDOW GLAZE	
	1-B	" "	" "	
	2-A	EXTERIOR WEST SIDE	WHITE EXPANSION JOINT CAULK	
	2-B	" " "	" " "	
	3-A	WEST SIDE BAY GARAGE DOOR	BAY DOOR CAULK GREY	
	3-B	" " " "	" "	
	4-A	B EXTERIOR FURNACE	HARD INSULATION WHITE	
	4-B	" " "	" " "	
	5-A	EXTERIOR FURNACE	FLUFFY INSULATION WHITE	
	5-B	" " "	" " "	
	6-A	INTERIOR CIELING MOUNT	WHITE STEAM PIPE INSULATION	
	7-A	INTERIOR WINDOW	GREY WINDOW GLAZE	
	7-B	" "	" " "	
	8-A	ROOF	TOP LAYER BALLAST TAR	
	8-B	↓	" " " "	
	9-A		TARPAPER TOP LAYER	
	9-B	ROOF	" " " "	

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By

1150711148

Relinquished By: _____ Date/Time: 6/24/15

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BULK CHAIN OF CUSTODY

AMERISCI RICHMOND
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Company: Fisher Associates

Street Address: 135 Calkins Road

City: Rochester State: NY Zip: 14623

Phone: 585-334-1310 Fax: 585-334-1361

Cell: 585-353-4731 Fax:

E-mail mstein@fisherassoc.com Verbal Results: Y / N

Results to: Mark Stein

Project: 631 NORTHLAND AMERISCI #:

Proj Mgr: MARK STEIN Proj #: 154034

Proj Address: 631 NORTHLAND Proj State: NY

Analysis: __PLM; __ Positive Stop; __TEM; X NY ELAP PLM/TEM w/ NOB Prep.

ASTM Dust __ (Microvac) __(Wipe); __Qualitative; __Other (describe in comments)

Turnaround Time: 5-DAY Material Type: X Bulk __Dust __Water

Sampled By: MTS Date Sampled: 6/24/15

Special Instructions or Comments:

STOP POSITIVE

Lab ID	Field ID	Location	Sample Description (dust area)	Homogenous Area
	10-A	ROOF	BLACK TAR PAPER LOWER LAYER	
	10-B		" " "	
	11-A		BLACK BOTTOM LAYER TAR	
	11-B		" " " "	
	12-A		BROWN "CORK LIKE" INSULATION	
	12-B		" " " "	
	13-A		BLACK FLASHING CEMENT ON DOORS & EQUIPMENT	
	13-B			
	14-A		GREY DOOR CAULK	
	14-B	ROOF	" " "	
	15-A	INTERIOR FLOOR NEAR FURNACE	WHITE ROPE / GASKET	
	16-A	~~BASEMENT~~ MAINFLOOR BATHROOM	BROWN QUARRY TILE	
	16-B		" " "	
	17-A		GREY GROUT	
	17-B		" "	
	18-A		GREY SET	
	18-B	MAIN FLOOR BATHROOM	" "	

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Please Reply To:

AMERI SCI

AmeriSci Richmond
13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

FACSIMILE TELECOPY TRANSMISSION

To:	Mark Stein Fisher Associates	**From:**	J. Samuel Baird
		AmeriSci Job #:	115071144
Fax #:		**Subject:**	ELAP-PLM/TEM 5 day Results
		Client Project:	154034; 683 Northland; 683 Northland Ave, NY
Email:	MStein@FisherAssoc.com		

Date: Tuesday, July 07, 2015
Time: 17:30:50
Comments:

Number of Pages: 46 (including cover sheet)

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Table I
Summary of Bulk Asbestos Analysis Results
154034; 683 Northland; 683 Northland Ave, NY

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01	1-A	1	0.136	22.4	59.5	15.0	Chrysotile 3.0	NA
Location:	4th Floor Office Space; Tan 12x12							
02	1-B	1	0.252	22.2	59.5	18.3	NA/PS	NA
Location:	4th Floor Office Space; Tan 12x12							
03	2-A	2	0.181	21.2	70.2	7.2	Chrysotile 1.4	NA
Location:	4th Floor Office Space; Dark Brown 12x12							
04	2-B	2	0.194	22.1	69.9	8.0	NA/PS	NA
Location:	4th Floor Office Space; Black Mastic							
05	3-A	3	0.284	25.4	20.2	54.4	NAD	NAD
Location:	4th Floor Office Space; Black Mastic							
06	3-B	3	0.200	26.0	19.9	54.1	NAD	NAD
Location:	4th Floor Office Space; White Base Coat Plaster							
07	4-A	4	----	----	----	----	NAD	NA
Location:	Office; White Base Coat Plaster							
08	4-B	4	----	----	----	----	NAD	NA
Location:	Office; White Base Coat Plaster							
09	4-C	4	----	----	----	----	NAD	NA
Location:	Office; White Base Coat Plaster							
10	4-D	4	----	----	----	----	NAD	NA
Location:	Office; White Base Coat Plaster							
11	4-E	4	----	----	----	----	NAD	NA
Location:	Office; White Base Coat Plaster							
12	4-F	4	----	----	----	----	NAD	NA
Location:	Office; White Base Coat Plaster							
13	4-G	4	----	----	----	----	NAD	NA
Location:	Office; White Base Coat Plaster							
14	5-A	5	----	----	----	----	NAD	NA
Location:	Office; Grey Base Coat Plaster							
15	5-B	5	----	----	----	----	NAD	NA
Location:	Office; Grey Base Coat Plaster							
16	5-C	5	----	----	----	----	NAD	NA
Location:	Office; Grey Base Coat Plaster							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results
154034; 683 Northland; 683 Northland Ave, NY

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
17	5-D	5	----	----	----	----	NAD	NA
Location:	Office; Grey Base Coat Plaster							
18	5-E	5	----	----	----	----	NAD	NA
Location:	Office; Grey Base Coat Plaster							
19	5-F	5	----	----	----	----	NAD	NA
Location:	Office; Grey Base Coat Plaster							
20	5-G	5	----	----	----	----	NAD	NA
Location:	Office; Grey Base Coat Plaster							
21	6-A	6	0.208	37.0	62.8	0.2	NAD	NAD
Location:	Office; Black Cove Base							
22	6-B	6	0.172	37.0	61.2	1.8	NAD	NAD
Location:	Office; Black Cove Base							
23	7-A	7	0.069	44.8	11.1	44.2	NAD	NAD
Location:	Office; Yellow CB Mastic							
24	7-B	7	0.094	44.6	11.8	43.7	NAD	NAD
Location:	Office; Yellow CB Mastic							
25	8-A	8	0.160	19.0	37.3	43.8	NAD	NAD
Location:	Office; Gypsum Board Ceiling Tile							
26	8-B	8	0.194	18.8	40.0	41.2	NAD	NAD
Location:	Office; Gypsum Board Ceiling Tile							
27	9-A	9	0.160	0.1	0.4	99.6	NAD	NAD
Location:	Office Bathroom 4th Floor; Blue Wall/Floor Tile							
28	9-B	9	0.124	0.1	0.5	99.4	NAD	NAD
Location:	Office Bathroom 4th Floor; Blue Wall/Floor Tile							
29	10-A	10	----	----	----	----	NAD	NA
Location:	Office Bathroom 4th Floor; White Wall Grout							
30	10-B	10	----	----	----	----	NAD	NA
Location:	Office Bathroom 4th Floor; White Wall Grout							
31	11-A	11	0.168	5.5	57.6	36.9	NAD	NAD
Location:	Office Bathroom 4th Floor; Grey Wall Adhesive							
32	11-B	11	0.148	4.0	63.7	32.3	NAD	NAD
Location:	Office Bathroom 4th Floor; Grey Wall Adhesive							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results
154034; 683 Northland; 683 Northland Ave, NY

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
33	12-A	12	----	----	----	----	NAD	NA
Location:	Office Bathroom 4th Floor; Wall Thin Set							
34	12-B	12	----	----	----	----	NAD	NA
Location:	Office Bathroom 4th Floor; Wall Thin Set							
35	13-A	13	----	----	----	----	NAD	NA
Location:	Office Bathroom; Floor Grout							
36	13-B	13	----	----	----	----	NAD	NA
Location:	Office Bathroom; Floor Grout							
37	14-A	14	----	----	----	----	NAD	NA
Location:	Office Bathroom; Floor Tile Set							
38	14-B	14	----	----	----	----	NAD	NA
Location:	Office Bathroom; Floor Tile Set							
39	15-A	15	0.161	27.6	26.3	40.2	Chrysotile 5.9	NA
Location:	East Office 4th Floor; Red 9x9 Floor Tile							
40	15-B	15	0.176	28.1	25.6	46.3	NA/PS	NA
Location:	East Office 4th Floor; Red 9x9 Floor Tile							
41	16-A	16	0.113	28.7	21.0	44.6	Chrysotile 5.6	NA
Location:	East Office 4th Floor; Dark Green 9x9 Floor Tile							
42	16-B	16	0.185	28.9	19.6	51.5	NA/PS	NA
Location:	East Office 4th Floor; Dark Green 9x9 Floor Tile							
43	17-A	17	0.206	8.9	87.6	3.4	Chrysotile <1	Chrysotile Trace
Location:	Office Windows North; Interior Window Glaze							
44	17-B	17	0.156	14.9	80.5	4.6	Chrysotile <1	Chrysotile Trace
Location:	Office Windows North; Interior Window Glaze							
45	18-A	18	0.131	45.8	18.0	36.1	NAD	Chrysotile Trace
Location:	3rd Floor; Black Mastic Under 9x9							
46	18-B	18	0.144	40.5	20.9	38.6	NAD	Chrysotile Trace
Location:	3rd Floor; Black Mastic Under 9x9							
47	19-A	19	----	----	----	----	NAD	NA
Location:	Office Block Windows South; Mortar							
48	19-B	19	----	----	----	----	NAD	NA
Location:	Office Block Windows South; Mortar							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results
154034; 683 Northland; 683 Northland Ave, NY

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
49	20-A	20	0.159	24.5	57.3	15.9	Chrysotile 2.3	NA
Location:	Office Area 2nd 1/2 Floor; Green 9x9 Floor Tile							
50	20-B	20	0.281	23.8	58.3	17.9	NA/PS	NA
Location:	Office Area 2nd 1/2 Floor; Green 9x9 Floor Tile							
51	21-A	21	0.190	24.7	28.7	41.1	Chrysotile 5.5	NA
Location:	Office On Floor 2 1/2; Tan 9x9 Floor Tile							
52	21-B	21	0.223	23.9	28.4	47.7	NA/PS	NA
Location:	Office On Floor 2 1/2; Tan 9x9 Floor Tile							
53	22-A	22	0.117	33.2	62.9	3.9	NAD	NAD
Location:	Office On Floor 2 1/2; Brown Cove Base							
54	22-B	22	0.114	33.0	63.4	3.6	NAD	NAD
Location:	Office On Floor 2 1/2; Brown Cove Base							
55	23-A	23	0.171	57.5	2.0	40.4	NAD	NAD
Location:	2nd Floor Office; Yellow Carpet Glue							
56	23-B	23	0.207	61.8	2.3	35.9	NAD	NAD
Location:	2nd Floor Office; Yellow Carpet Glue							
57	24-A	24	----	----	----	----	NAD	NA
Location:	Main Floor Office Bldg; Brown Carpet Glue							
58	24-B	24	----	----	----	----	NAD	NA
Location:	Main Floor Office Bldg; Brown Carpet Glue							
59	25-A	25	----	----	----	----	NAD	NA
Location:	Main Floor Office Bldg; Grey Grout							
60	25-B	25	----	----	----	----	NAD	NA
Location:	Main Floor Office Bldg; Grey Grout							
61	26-A	26	----	----	----	----	NAD	NA
Location:	Main Floor Office Bldg; Grey Set							
62	26-B	26	----	----	----	----	NAD	NA
Location:	Main Floor Office Bldg; Grey Set							
63	27-A	27	----	----	----	----	NAD	NA
Location:	Main Floor Office Bldg; Whit Drywall							
64	27-B	27	----	----	----	----	NAD	NA
Location:	Main Floor Office Bldg; Whit Drywall							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results
154034; 683 Northland; 683 Northland Ave, NY

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
65	28-A	28	----	----	----	----	NAD	NA
Location:	Main Floor Office Bldg; White Joint Compound							
66	28-B	28	----	----	----	----	NAD	NA
Location:	Main Floor Office Bldg; White Joint Compound							
67	29-A	29	----	----	----	----	NAD	NA
Location:	Main Floor Office Bldg; Beige Drywall Tape							
68	29-B	29	----	----	----	----	NAD	NA
Location:	Main Floor Office Bldg; Beige Drywall Tape							
69	30-A	30	0.190	20.7	21.6	57.7	NAD	NAD
Location:	Main Floor Office Bldg Stairs; Ceiling Tile							
70	30-B	30	0.234	20.1	23.3	56.7	NAD	NAD
Location:	Main Floor Office Bldg Stairs; Ceiling Tile							
71	31-A	31	----	----	----	----	NAD	NA
Location:	Factory Northwall East Side; Pipe Wrap White On FG							
72	31-B	31	----	----	----	----	NAD	NA
Location:	Factory Northwall East Side; Pipe Wrap White On FG							
73	33-A	32	0.244	24.5	6.5	62.8	Chrysotile 6.1	NA
Location:	Interior Windows; Window Glaze/Caulk On Block Windows							
74	33-B	32	0.543	5.1	47.3	47.6	NA/PS	NA
Location:	Interior Windows; Window Glaze/Caulk On Block Windows							
75	X-33-A	33	0.231	26.5	21.1	47.8	Chrysotile 4.5	NA
Location:	Interior Windows; Window Caulk							
76	X-33-B	33	0.192	23.4	24.6	52.0	NA/PS	NA
Location:	Interior Windows; Window Caulk							
77	34-A	34	0.156	65.4	5.5	29.2	NAD	NAD
Location:	Factory Floor; Tar On Wood Blocks							
78	34-B	34	0.198	62.5	2.5	35.0	NAD	NAD
Location:	Factory Floor; Tar On Wood Blocks							
79	36-A	35	----	----	----	----	NAD	NA
Location:	1912 Addition Walls & Ceiling; Spray On Coating							
80	36-B	35	----	----	----	----	NAD	NA
Location:	1912 Addition Walls & Ceiling; Spray On Coating							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results
154034; 683 Northland; 683 Northland Ave, NY

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
81	36-C	35	----	----	----	----	NAD	NA
Location:	1912 Addition Walls & Ceiling; Spray On Coating							
82	37-A	36	----	----	----	----	NAD	NA
Location:	Forge Area; Insulation "Brick Like"							
83	37-B	36	----	----	----	----	NAD	NA
Location:	Forge Area; Insulation "Brick Like"							
84	38-A	37	----	----	----	----	NAD	NA
Location:	Forge Area; Brick In Furnace/Kiln							
85	38-B	37	----	----	----	----	NAD	NA
Location:	Forge Area; Brick In Furnace/Kiln							
86	39-A	38	----	----	----	----	NAD	NA
Location:	Forge Area; Mortar In Furnace/Kiln							
87	39-B	38	----	----	----	----	NAD	NA
Location:	Forge Area; Mortar In Furnace/Kiln							
88	X-39-A	39	----	----	----	----	NAD	NA
Location:	Forge Area; Insulation In Top Of Furnace/Kiln							
89	X-39-B	39	----	----	----	----	NAD	NA
Location:	Forge Area; Insulation In Top Of Furnace/Kiln							
90	40-A	40	0.425	57.5	19.3	23.3	NAD	NAD
Location:	1981 Era Garage Door Interior; Interior Caulk							
91	40-B	40	0.316	58.6	20.3	21.1	NAD	NAD
Location:	1981 Era Garage Door Interior; Interior Caulk							
92	41-A	41	0.202	29.5	34.0	36.5	NAD	NAD
Location:	South End Office Pod; Ceiling Tile							
93	41-B	41	0.167	28.9	33.7	37.4	NAD	NAD
Location:	South End Office Pod; Ceiling Tile							
94	45-A	42	----	----	----	----	NAD	NA
Location:	Boiler Room; Boiler Wrap							
95	45-B	42	----	----	----	----	NAD	NA
Location:	Boiler Room; Boiler Wrap							
96	46-A	43	----	----	----	----	Chrysotile 66.7	NA
Location:	Boiler Room; Boiler Insulation							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results
154034; 683 Northland; 683 Northland Ave, NY

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
97	46-B	43	----	----	----	----	NA/PS	NA
Location:	Boiler Room; Boiler Insulation							
98	47-A	44	----	----	----	----	NAD	NA
Location:	Boiler Room; Piping Attached To Boiler							
99	47-B	44	----	----	----	----	NAD	NA
Location:	Boiler Room; Piping Attached To Boiler							
100	47-C	44	----	----	----	----	NAD	NA
Location:	Boiler Room; Piping Attached To Boiler							
101	48-A		----	----	----	----	Chrysotile 20.0	NA
Location:	Boiler Room; Piping On West Wall							
102	49-A	45	----	----	----	----	NAD	NA
Location:	Boiler Room; Piping Overhead							
103	49-B	45	----	----	----	----	NAD	NA
Location:	Boiler Room; Piping Overhead							
104	49-C	45	----	----	----	----	NAD	NA
Location:	Boiler Room; Piping Overhead							
105	50-A	46	0.308	39.5	30.1	27.1	Chrysotile 3.3	NA
Location:	Exterior Front (North); Window Caulk 1911							
106	50-B	46	0.281	39.7	24.9	35.4	NA/PS	NA
Location:	Exterior Front (North); Window Caulk 1911							
107	51-A	47	0.147	62.0	10.6	27.4	NAD	NAD
Location:	Exterior Front (North); Window Glaze 1911							
108	51-B	47	0.271	61.9	9.6	28.5	NAD	NAD
Location:	Exterior Front (North); Window Glaze 1911							
109	X-51-A	48	0.107	19.3	2.6	78.1	NAD	NAD
Location:	Exterior Front (North); Glaze Behind #51							
110	X-51-B	48	0.198	7.1	40.9	52.0	NAD	NAD
Location:	Exterior Front (North); Glaze Behind #51							
111	52-A	49	0.653	50.6	17.9	28.8	Chrysotile 2.7	NA
Location:	Exterior Front (North); Window Caulk 1920							
112	52-B	49	0.273	52.0	8.0	40.0	NA/PS	NA
Location:	Exterior Front (North); Window Caulk 1920							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results
154034; 683 Northland; 683 Northland Ave, NY

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
113	53-A	50	0.308	7.9	39.2	52.7	NAD	Chrysotile Trace
Location:	Exterior Front (North); Window Glaze 1920							
114	53-B	50	0.234	7.5	42.3	50.1	NAD	Chrysotile Trace
Location:	Exterior Front (North); Window Glaze 1920							
115	56-A	51	----	----	----	----	NAD	NA
Location:	Exterior Front (North); Pardge Coat							
116	56-B	51	----	----	----	----	NAD	NA
Location:	Exterior Front (North); Pardge Coat							
117	57-A	52	0.338	59.9	19.7	20.3	NAD	Chrysotile Trace
Location:	West Side Garage Doors; White/Grey Caulk							
118	57-B	52	0.184	56.0	21.5	22.4	NAD	Chrysotile Trace
Location:	West Side Garage Doors; White/Grey Caulk							
119	58-A	53	0.107	10.1	63.0	26.8	NAD	Anthophyllite Trace
Location:	West Side Entry (1912); Door Caulk White							
120	58-B	53	0.175	10.2	62.6	27.1	NAD	Anthophyllite Trace
Location:	West Side Entry (1912); Door Caulk White							
121	59-A	54	0.265	43.9	20.7	35.4	NAD	NAD
Location:	West Side Control/Expansion Joint; Caulk Grey							
122	59-B	54	0.291	43.6	22.0	34.4	NAD	NAD
Location:	West Side Control/Expansion Joint; Caulk Grey							
123	60-A	55	0.201	38.1	41.7	18.7	Chrysotile 1.6	NA
Location:	1927 Windows; Window Glaze Grey							
124	60-B	55	0.180	11.6	82.9	5.5	NA/PS	NA
Location:	1927 Windows; Window Glaze Grey							
125	61-A	56	0.198	46.4	23.6	30.0	NAD	NAD
Location:	1927 Windows; Grey Window Caulk							
126	61-B	56	0.156	38.4	28.5	33.2	NAD	NAD
Location:	1927 Windows; Grey Window Caulk							
127	62-A	57	0.232	26.5	50.2	23.2	NAD	Anthophyllite Trace
Location:	1964 Windows; Grey Window Glaze							
128	62-B	57	0.167	26.3	50.6	23.1	NAD	Anthophyllite Trace
Location:	1964 Windows; Grey Window Glaze							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results
154034; 683 Northland; 683 Northland Ave, NY

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
129	63-A	58	0.169	64.4	11.8	20.6	Chrysotile 3.2	NA
Location:	1964 Windows; White Window Putty							
130	63-B	58	0.136	64.7	11.3	23.9	NA/PS	NA
Location:	1964 Windows; White Window Putty							
131	64-A	59	0.184	37.1	60.0	3.0	NAD	NAD
Location:	South Side Expansion Joint; Grey Caulk							
132	64-B	59	0.359	40.5	55.8	3.6	NAD	NAD
Location:	South Side Expansion Joint; Grey Caulk							
133	65-A	60	0.288	36.5	59.1	4.4	NAD	NAD
Location:	Exterior Bay Garage South; Caulk Grey							
134	65-B	60	0.235	50.0	22.8	27.2	NAD	NAD
Location:	Exterior Bay Garage South; Caulk Grey							
135	66-A	61	0.172	41.8	47.2	9.2	Chrysotile 1.8	NA
Location:	Exterior FG Windows South; Glaze/Caulk White							
136	66-B	61	0.171	41.9	47.1	11.0	NA/PS	NA
Location:	Exterior FG Windows South; Glaze/Caulk White							

Reviewed by: _____ Date Reviewed: _____ Analyzed By: Cory M. Parnell _____ Date Analyzed: 7/7/2015

Semi-Quantitative Analysis: NAD = no asbestos detected; NA = not analyzed; NA/PS = not analyzed due to positive stop; Trace = <1%;
PLM analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) or NY ELAP 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NY ELAP Lab # 10984);
TEM analysis by EPA 600/R-93/116 (not covered by NVLAP Bulk accreditation); or NY ELAP 198.4 for New York NOB samples (NY ELAP Lab # 10984);

** Warning Notes: Consider PLM fiber diameter limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris, soils or other heterogeneous materials for which a combination PLM/TEM evaluation is recommended; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only.

AmeriSci Richmond
13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

PLM Bulk Asbestos Report

Fisher Associates
Attn: Mark Stein
135 Calkins Road, Suite A

Rochester, NY 14623

Date Received 07/02/15 **AmeriSci Job #** 115071144
Date Examined 07/07/15 **P.O. #**
ELAP # 10984 **Page** 1 **of** 27
RE: 154034; 683 Northland; 683 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
1-A	115071144-01	***Yes***	3 %
1	**Location:** 4th Floor Office Space; Tan 12x12		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Beige, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 3.0 % **Other Material:** Non-fibrous 15 % **Comment:** Heat Sensitive (organic): 22.4%; Acid Soluble (inorganic): 59.5%; Inert (Non-asbestos): 15.0%			
1-B	115071144-02		NA/PS
1	**Location:** 4th Floor Office Space; Tan 12x12		
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:** **Comment:** Heat Sensitive (organic): 22.2%; Acid Soluble (inorganic): 59.5%; Inert (Non-asbestos): 18.3%			
2-A	115071144-03	***Yes***	1.4 %
2	**Location:** 4th Floor Office Space; Dark Brown 12x12		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Beige, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 1.4 % **Other Material:** Non-fibrous 7.2 % **Comment:** Heat Sensitive (organic): 21.2%; Acid Soluble (inorganic): 70.2%; Inert (Non-asbestos): 7.2%			
2-B	115071144-04		NA/PS
2	**Location:** 4th Floor Office Space; Black Mastic		
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:** **Comment:** Heat Sensitive (organic): 22.1%; Acid Soluble (inorganic): 69.9%; Inert (Non-asbestos): 8.0%			

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PLM Bulk Asbestos Report

154034; 683 Northland; 683 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
3-A	115071144-05	***No***	NAD
3	**Location:** 4th Floor Office Space; Black Mastic		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Black/Brown, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 54.4 %			
Comment: Heat Sensitive (organic): 25.4%; Acid Soluble (inorganic): 20.2%; Inert (Non-asbestos): 54.4%			
3-B	115071144-06	***No***	NAD
3	**Location:** 4th Floor Office Space; White Base Coat Plaster		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Black/Brown, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 54.1 %			
Comment: Heat Sensitive (organic): 26.0%; Acid Soluble (inorganic): 19.9%; Inert (Non-asbestos): 54.1%			
4-A	115071144-07	***No***	NAD
4	**Location:** Office; White Base Coat Plaster		(by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Plaster			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
4-B	115071144-08	***No***	NAD
4	**Location:** Office; White Base Coat Plaster		(by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Plaster			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
4-C	115071144-09	***No***	NAD
4	**Location:** Office; White Base Coat Plaster		(by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Plaster			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

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PLM Bulk Asbestos Report

154034; 683 Northland; 683 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
4-D 4	115071144-10 **Location:** Office; White Base Coat Plaster	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Plaster **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
4-E 4	115071144-11 **Location:** Office; White Base Coat Plaster	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Plaster **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
4-F 4	115071144-12 **Location:** Office; White Base Coat Plaster	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Plaster **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
4-G 4	115071144-13 **Location:** Office; White Base Coat Plaster	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Plaster **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
5-A 5	115071144-14 **Location:** Office; Grey Base Coat Plaster	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Cementitious, Plaster **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
5-B 5	115071144-15 **Location:** Office; Grey Base Coat Plaster	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Cementitious, Plaster **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

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PLM Bulk Asbestos Report

154034; 683 Northland; 683 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
5-C 5	115071144-16 **Location:** Office; Grey Base Coat Plaster	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Cementitious, Plaster **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
5-D 5	115071144-17 **Location:** Office; Grey Base Coat Plaster	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Cementitious, Plaster **Asbestos Types:** **Other Material:** Cellulose 3 %, Non-fibrous 97 %			
5-E 5	115071144-18 **Location:** Office; Grey Base Coat Plaster	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Cementitious, Plaster **Asbestos Types:** **Other Material:** Cellulose 3 %, Non-fibrous 97 %			
5-F 5	115071144-19 **Location:** Office; Grey Base Coat Plaster	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Cementitious, Plaster **Asbestos Types:** **Other Material:** Cellulose 3 %, Non-fibrous 97 %			
5-G 5	115071144-20 **Location:** Office; Grey Base Coat Plaster	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Cementitious, Plaster **Asbestos Types:** **Other Material:** Cellulose 3 %, Non-fibrous 97 %			
6-A 6	115071144-21 **Location:** Office; Black Cove Base	***No***	NAD (by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Black, Heterogeneous, Non-Fibrous, **Asbestos Types:** **Other Material:** Non-fibrous 0.2 % **Comment:** Heat Sensitive (organic): 37.0%; Acid Soluble (inorganic): 62.8%; Inert (Non-asbestos): 0.2%			

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PLM Bulk Asbestos Report

154034; 683 Northland; 683 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
6-B	115071144-22	***No***	NAD
6	**Location:** Office; Black Cove Base		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Black, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Non-fibrous 1.8 %			
Comment: Heat Sensitive (organic): 37.0%; Acid Soluble (inorganic): 61.2%; Inert (Non-asbestos): 1.8%			
7-A	115071144-23	***No***	NAD
7	**Location:** Office; Yellow CB Mastic		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Brown, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Non-fibrous 44.2 %			
Comment: Heat Sensitive (organic): 44.8%; Acid Soluble (inorganic): 11.1%; Inert (Non-asbestos): 44.2%			
7-B	115071144-24	***No***	NAD
7	**Location:** Office; Yellow CB Mastic		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Brown, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Non-fibrous 43.7 %			
Comment: Heat Sensitive (organic): 44.6%; Acid Soluble (inorganic): 11.8%; Inert (Non-asbestos): 43.7%			
8-A	115071144-25	***No***	NAD
8	**Location:** Office; Gypsum Board Ceiling Tile		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: White/Brown, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Fibrous glass 5 %, Non-fibrous 38.8 %			
Comment: Heat Sensitive (organic): 19.0%; Acid Soluble (inorganic): 37.3%; Inert (Non-asbestos): 43.8%			
8-B	115071144-26	***No***	NAD
8	**Location:** Office; Gypsum Board Ceiling Tile		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Fibrous glass 5 %, Non-fibrous 36.2 %			
Comment: Heat Sensitive (organic): 18.8%; Acid Soluble (inorganic): 40.0%; Inert (Non-asbestos): 41.2%			

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PLM Bulk Asbestos Report

154034; 683 Northland; 683 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
9-A	115071144-27	***No***	NAD
9	**Location:** Office Bathroom 4th Floor; Blue Wall/Floor Tile		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Blue, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Non-fibrous 99.6 %			
Comment: Heat Sensitive (organic): 0.1%; Acid Soluble (inorganic): 0.4%; Inert (Non-asbestos): 99.6%			
9-B	115071144-28	***No***	NAD
9	**Location:** Office Bathroom 4th Floor; Blue Wall/Floor Tile		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Blue, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Non-fibrous 99.4 %			
Comment: Heat Sensitive (organic): 0.1%; Acid Soluble (inorganic): 0.5%; Inert (Non-asbestos): 99.4%			
10-A	115071144-29	***No***	NAD
10	**Location:** Office Bathroom 4th Floor; White Wall Grout		(by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Grout			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
10-B	115071144-30	***No***	NAD
10	**Location:** Office Bathroom 4th Floor; White Wall Grout		(by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Grout			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
11-A	115071144-31	***No***	NAD
11	**Location:** Office Bathroom 4th Floor; Grey Wall Adhesive		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Non-fibrous 36.9 %			
Comment: Heat Sensitive (organic): 5.5%; Acid Soluble (inorganic): 57.6%; Inert (Non-asbestos): 36.9%			

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PLM Bulk Asbestos Report

154034; 683 Northland; 683 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
11-B 11	115071144-32 **Location:** Office Bathroom 4th Floor; Grey Wall Adhesive	***No***	NAD (by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, **Asbestos Types:** **Other Material:** Non-fibrous 32.3 % **Comment:** Heat Sensitive (organic): 4.0%; Acid Soluble (inorganic): 63.7%; Inert (Non-asbestos): 32.3%			
12-A 12	115071144-33 **Location:** Office Bathroom 4th Floor; Wall Thin Set	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Thinset **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
12-B 12	115071144-34 **Location:** Office Bathroom 4th Floor; Wall Thin Set	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Thinset **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
13-A 13	115071144-35 **Location:** Office Bathroom; Floor Grout	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Grout **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
13-B 13	115071144-36 **Location:** Office Bathroom; Floor Grout	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Grout **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

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PLM Bulk Asbestos Report

154034; 683 Northland; 683 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
14-A 14	115071144-37 **Location:** Office Bathroom; Floor Tile Set	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
14-B 14	115071144-38 **Location:** Office Bathroom; Floor Tile Set	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
15-A 15	115071144-39 **Location:** East Office 4th Floor; Red 9x9 Floor Tile	***Yes***	5.9 % (by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Red, Heterogeneous, Non-Fibrous, **Asbestos Types:** Chrysotile 5.9 % **Other Material:** Non-fibrous 40.2 % **Comment:** Heat Sensitive (organic): 27.6%; Acid Soluble (inorganic): 26.3%; Inert (Non-asbestos): 40.2%			
15-B 15	115071144-40 **Location:** East Office 4th Floor; Red 9x9 Floor Tile		NA/PS
Analyst Description: **Asbestos Types:** **Other Material:** **Comment:** Heat Sensitive (organic): 28.1%; Acid Soluble (inorganic): 25.6%; Inert (Non-asbestos): 46.3%			
16-A 16	115071144-41 **Location:** East Office 4th Floor; Dark Green 9x9 Floor Tile	***Yes***	5.6 % (by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Green, Heterogeneous, Non-Fibrous, **Asbestos Types:** Chrysotile 5.6 % **Other Material:** Non-fibrous 44.6 % **Comment:** Heat Sensitive (organic): 28.7%; Acid Soluble (inorganic): 21.0%; Inert (Non-asbestos): 44.6%			

See Reporting notes on last page

PLM Bulk Asbestos Report

154034; 683 Northland; 683 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
16-B	115071144-42		NA/PS
16	**Location:** East Office 4th Floor; Dark Green 9x9 Floor Tile		
Analyst Description:			
Asbestos Types:			
Other Material:			
Comment: Heat Sensitive (organic): 28.9%; Acid Soluble (inorganic): 19.6%; Inert (Non-asbestos): 51.5%			
17-A	115071144-43	***Yes***	Trace (<1 %)
17	**Location:** Office Windows North; Interior Window Glaze		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous,			
Asbestos Types: Chrysotile <1 % pc			
Other Material: Non-fibrous 2.7 %			
Comment: Heat Sensitive (organic): 8.9%; Acid Soluble (inorganic): 87.6%; Inert (Non-asbestos): 2.7%			
17-B	115071144-44	***Yes***	Trace (<1 %)
17	**Location:** Office Windows North; Interior Window Glaze		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous,			
Asbestos Types: Chrysotile <1 % pc			
Other Material: Non-fibrous 4.2 %			
Comment: Heat Sensitive (organic): 14.9%; Acid Soluble (inorganic): 80.5%; Inert (Non-asbestos): 4.2%			
18-A	115071144-45	***No***	NAD
18	**Location:** 3rd Floor; Black Mastic Under 9x9		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Black, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Non-fibrous 36.2 %			
Comment: Heat Sensitive (organic): 45.8%; Acid Soluble (inorganic): 18.0%; Inert (Non-asbestos): 36.2%			
18-B	115071144-46	***No***	NAD
18	**Location:** 3rd Floor; Black Mastic Under 9x9		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Black, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Non-fibrous 38.7 %			
Comment: Heat Sensitive (organic): 40.5%; Acid Soluble (inorganic): 20.9%; Inert (Non-asbestos): 38.7%			

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PLM Bulk Asbestos Report

154034; 683 Northland; 683 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
19-A 19	115071144-47 **Location:** Office Block Windows South; Mortar	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Mortar **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
19-B 19	115071144-48 **Location:** Office Block Windows South; Mortar	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Mortar **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
20-A 20	115071144-49 **Location:** Office Area 2nd 1/2 Floor; Green 9x9 Floor Tile	***Yes***	2.3 % (by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Green, Heterogeneous, Non-Fibrous, **Asbestos Types:** Chrysotile 2.3 % **Other Material:** Non-fibrous 15.9 % **Comment:** Heat Sensitive (organic): 24.5%; Acid Soluble (inorganic): 57.3%; Inert (Non-asbestos): 15.9%			
20-B 20	115071144-50 **Location:** Office Area 2nd 1/2 Floor; Green 9x9 Floor Tile		NA/PS
Analyst Description: **Asbestos Types:** **Other Material:** **Comment:** Heat Sensitive (organic): 23.8%; Acid Soluble (inorganic): 58.3%; Inert (Non-asbestos): 17.9%			
21-A 21	115071144-51 **Location:** Office On Floor 2 1/2; Tan 9x9 Floor Tile	***Yes***	5.5 % (by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Tan, Heterogeneous, Non-Fibrous, **Asbestos Types:** Chrysotile 5.5 % **Other Material:** Non-fibrous 41.1 % **Comment:** Heat Sensitive (organic): 24.7%; Acid Soluble (inorganic): 28.7%; Inert (Non-asbestos): 41.1%			

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PLM Bulk Asbestos Report

154034; 683 Northland; 683 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
21-B	115071144-52		NA/PS
21	**Location:** Office On Floor 2 1/2; Tan 9x9 Floor Tile		
Analyst Description:			
Asbestos Types:			
Other Material:			
Comment: Heat Sensitive (organic): 23.9%; Acid Soluble (inorganic): 28.4%; Inert (Non-asbestos): 47.7%			
22-A	115071144-53	***No***	NAD
22	**Location:** Office On Floor 2 1/2; Brown Cove Base		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Brown, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Non-fibrous 3.9 %			
Comment: Heat Sensitive (organic): 33.2%; Acid Soluble (inorganic): 62.9%; Inert (Non-asbestos): 3.9%			
22-B	115071144-54	***No***	NAD
22	**Location:** Office On Floor 2 1/2; Brown Cove Base		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Brown, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Non-fibrous 3.6 %			
Comment: Heat Sensitive (organic): 33.0%; Acid Soluble (inorganic): 63.4%; Inert (Non-asbestos): 3.6%			
23-A	115071144-55	***No***	NAD
23	**Location:** 2nd Floor Office; Yellow Carpet Glue		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Yellow, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Non-fibrous 40.4 %			
Comment: Heat Sensitive (organic): 57.5%; Acid Soluble (inorganic): 2.0%; Inert (Non-asbestos): 40.4%			
23-B	115071144-56	***No***	NAD
23	**Location:** 2nd Floor Office; Yellow Carpet Glue		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Yellow, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Non-fibrous 35.9 %			
Comment: Heat Sensitive (organic): 61.8%; Acid Soluble (inorganic): 2.3%; Inert (Non-asbestos): 35.9%			

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PLM Bulk Asbestos Report

154034; 683 Northland; 683 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
24-A 24	115071144-57 **Location:** Main Floor Office Bldg; Brown Carpet Glue	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Ceramic Tile **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
24-B 24	115071144-58 **Location:** Main Floor Office Bldg; Brown Carpet Glue	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Ceramic Tile **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
25-A 25	115071144-59 **Location:** Main Floor Office Bldg; Grey Grout	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Black, Heterogeneous, Non-Fibrous, Grout **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
25-B 25	115071144-60 **Location:** Main Floor Office Bldg; Grey Grout	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Black, Heterogeneous, Non-Fibrous, Grout **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
26-A 26	115071144-61 **Location:** Main Floor Office Bldg; Grey Set	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Cementitious, **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
26-B 26	115071144-62 **Location:** Main Floor Office Bldg; Grey Set	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Cementitious, **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

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PLM Bulk Asbestos Report

154034; 683 Northland; 683 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
27-A 27	115071144-63 **Location:** Main Floor Office Bldg; Whit Drywall	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Drywall **Asbestos Types:** **Other Material:** Fibrous glass 3 %, Non-fibrous 97 %			
27-B 27	115071144-64 **Location:** Main Floor Office Bldg; Whit Drywall	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Drywall **Asbestos Types:** **Other Material:** Fibrous glass 3 %, Non-fibrous 97 %			
28-A 28	115071144-65 **Location:** Main Floor Office Bldg; White Joint Compound	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
28-B 28	115071144-66 **Location:** Main Floor Office Bldg; White Joint Compound	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
29-A 29	115071144-67 **Location:** Main Floor Office Bldg; Beige Drywall Tape	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Fibrous, Tape **Asbestos Types:** **Other Material:** Cellulose 100 %			
29-B 29	115071144-68 **Location:** Main Floor Office Bldg; Beige Drywall Tape	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Fibrous, Tape **Asbestos Types:** **Other Material:** Cellulose 100 %			

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PLM Bulk Asbestos Report

154034; 683 Northland; 683 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
30-A	115071144-69	***No***	NAD
30	**Location:** Main Floor Office Bldg Stairs; Ceiling Tile		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Fibrous glass 20 %, Non-fibrous 37.7 %			
Comment: Heat Sensitive (organic): 20.7%; Acid Soluble (inorganic): 21.6%; Inert (Non-asbestos): 57.7%			
30-B	115071144-70	***No***	NAD
30	**Location:** Main Floor Office Bldg Stairs; Ceiling Tile		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Fibrous glass 20 %, Non-fibrous 36.7 %			
Comment: Heat Sensitive (organic): 20.1%; Acid Soluble (inorganic): 23.3%; Inert (Non-asbestos): 56.7%			
31-A	115071144-71	***No***	NAD
31	**Location:** Factory Northwall East Side; Pipe Wrap White On FG		(by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Fibrous, Wrap			
Asbestos Types:			
Other Material: Cellulose 70 %, Fibrous glass 15 %, Non-fibrous 15 %			
31-B	115071144-72	***No***	NAD
31	**Location:** Factory Northwall East Side; Pipe Wrap White On FG		(by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Fibrous, Wrap			
Asbestos Types:			
Other Material: Cellulose 70 %, Fibrous glass 15 %, Non-fibrous 15 %			
33-A	115071144-73	***Yes***	6.1 %
32	**Location:** Interior Windows; Window Glaze/Caulk On Block Windows		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous,			
Asbestos Types: Chrysotile 6.1 %			
Other Material: Non-fibrous 62.8 %			
Comment: Heat Sensitive (organic): 24.5%; Acid Soluble (inorganic): 6.5%; Inert (Non-asbestos): 62.8%			

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PLM Bulk Asbestos Report

154034; 683 Northland; 683 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
33-B	115071144-74		NA/PS
32	**Location:** Interior Windows; Window Glaze/Caulk On Block Windows		
Analyst Description:			
Asbestos Types:			
Other Material:			
Comment: Heat Sensitive (organic): 5.1%; Acid Soluble (inorganic): 47.3%; Inert (Non-asbestos): 47.6%			
X-33-A	115071144-75	***Yes***	4.6 %
33	**Location:** Interior Windows; Window Caulk		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray/Brown, Heterogeneous, Non-Fibrous,			
Asbestos Types: Chrysotile 4.5 %			
Other Material: Non-fibrous 47.8 %			
Comment: Heat Sensitive (organic): 26.5%; Acid Soluble (inorganic): 21.1%; Inert (Non-asbestos): 47.8%			
X-33-B	115071144-76		NA/PS
33	**Location:** Interior Windows; Window Caulk		
Analyst Description:			
Asbestos Types:			
Other Material:			
Comment: Heat Sensitive (organic): 23.4%; Acid Soluble (inorganic): 24.6%; Inert (Non-asbestos): 52.0%			
34-A	115071144-77	***No***	NAD
34	**Location:** Factory Floor; Tar On Wood Blocks		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Black, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Non-fibrous 29.2 %			
Comment: Heat Sensitive (organic): 65.4%; Acid Soluble (inorganic): 5.5%; Inert (Non-asbestos): 29.2%			
34-B	115071144-78	***No***	NAD
34	**Location:** Factory Floor; Tar On Wood Blocks		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Black, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Non-fibrous 35 %			
Comment: Heat Sensitive (organic): 62.5%; Acid Soluble (inorganic): 2.5%; Inert (Non-asbestos): 35.0%			

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PLM Bulk Asbestos Report

154034; 683 Northland; 683 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
36-A 35	115071144-79 **Location:** 1912 Addition Walls & Ceiling; Spray On Coating	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Spray-On **Asbestos Types:** **Other Material:** Cellulose 25 %, Fibrous glass 10 %, Non-fibrous 65 %			
36-B 35	115071144-80 **Location:** 1912 Addition Walls & Ceiling; Spray On Coating	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Spray-On **Asbestos Types:** **Other Material:** Fibrous glass 15 %, Non-fibrous 85 %			
36-C 35	115071144-81 **Location:** 1912 Addition Walls & Ceiling; Spray On Coating	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Spray-On **Asbestos Types:** **Other Material:** Fibrous glass 15 %, Non-fibrous 85 %			
37-A 36	115071144-82 **Location:** Forge Area; Insulation "Brick Like"	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Insulation **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
37-B 36	115071144-83 **Location:** Forge Area; Insulation "Brick Like"	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Insulation **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
38-A 37	115071144-84 **Location:** Forge Area; Brick In Furnace/Kiln	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Brick **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

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PLM Bulk Asbestos Report

154034; 683 Northland; 683 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
38-B 37	115071144-85 **Location:** Forge Area; Brick In Furnace/Kiln	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Brick **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
39-A 38	115071144-86 **Location:** Forge Area; Mortar In Furnace/Kiln	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Mortar **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
39-B 38	115071144-87 **Location:** Forge Area; Mortar In Furnace/Kiln	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Mortar **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
X-39-A 39	115071144-88 **Location:** Forge Area; Insulation In Top Of Furnace/Kiln	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Insulation **Asbestos Types:** **Other Material:** Fibrous glass 10 %, Non-fibrous 90 %			
X-39-B 39	115071144-89 **Location:** Forge Area; Insulation In Top Of Furnace/Kiln	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Insulation **Asbestos Types:** **Other Material:** Fibrous glass 10 %, Non-fibrous 90 %			
40-A 40	115071144-90 **Location:** 1981 Era Garage Door Interior; Interior Caulk	***No***	NAD (by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, **Asbestos Types:** **Other Material:** Non-fibrous 23.3 % **Comment:** Heat Sensitive (organic): 57.5%; Acid Soluble (inorganic): 19.3%; Inert (Non-asbestos): 23.3%			

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PLM Bulk Asbestos Report

154034; 683 Northland; 683 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
40-B 40	115071144-91 **Location:** 1981 Era Garage Door Interior; Interior Caulk	***No***	NAD (by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, **Asbestos Types:** **Other Material:** Non-fibrous 21.1 % **Comment:** Heat Sensitive (organic): 58.6%; Acid Soluble (inorganic): 20.3%; Inert (Non-asbestos): 21.1%			
41-A 41	115071144-92 **Location:** South End Office Pod; Ceiling Tile	***No***	NAD (by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, **Asbestos Types:** **Other Material:** Fibrous glass 15 %, Non-fibrous 21.5 % **Comment:** Heat Sensitive (organic): 29.5%; Acid Soluble (inorganic): 34.0%; Inert (Non-asbestos): 36.5%			
41-B 41	115071144-93 **Location:** South End Office Pod; Ceiling Tile	***No***	NAD (by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, **Asbestos Types:** **Other Material:** Fibrous glass 15 %, Non-fibrous 22.4 % **Comment:** Heat Sensitive (organic): 28.9%; Acid Soluble (inorganic): 33.7%; Inert (Non-asbestos): 37.4%			
45-A 42	115071144-94 **Location:** Boiler Room; Boiler Wrap	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Turquoise, Heterogeneous, Fibrous, Wrap **Asbestos Types:** **Other Material:** Cellulose 90 %, Non-fibrous 10 %			
45-B 42	115071144-95 **Location:** Boiler Room; Boiler Wrap	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Turquoise, Heterogeneous, Fibrous, Wrap **Asbestos Types:** **Other Material:** Cellulose 90 %, Non-fibrous 10 %			

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PLM Bulk Asbestos Report

154034; 683 Northland; 683 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
46-A 43	115071144-96 **Location:** Boiler Room; Boiler Insulation	***Yes***	66.7 % (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Fibrous, Insulation **Asbestos Types:** Chrysotile 66.7 % **Other Material:** Non-fibrous 33.3 %			
46-B 43	115071144-97 **Location:** Boiler Room; Boiler Insulation		NA/PS
Analyst Description: **Asbestos Types:** **Other Material:**			
47-A 44	115071144-98 **Location:** Boiler Room; Piping Attached To Boiler	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Pipe Insulation **Asbestos Types:** **Other Material:** Synthetic fibers 25 %, Non-fibrous 75 %			
47-B 44	115071144-99 **Location:** Boiler Room; Piping Attached To Boiler	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Pipe Insulation **Asbestos Types:** **Other Material:** Synthetic fibers 20 %, Non-fibrous 80 %			
47-C 44	115071144-100 **Location:** Boiler Room; Piping Attached To Boiler	***No***	NAD (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Fibrous, Pipe Insulation **Asbestos Types:** **Other Material:** Fibrous glass 70 %, Non-fibrous 30 %			
48-A	115071144-101 **Location:** Boiler Room; Piping On West Wall	***Yes***	20 % (by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Fibrous, Wrap **Asbestos Types:** Chrysotile 20.0 % **Other Material:** Cellulose 70 %, Non-fibrous 10 %			

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PLM Bulk Asbestos Report

154034; 683 Northland; 683 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
49-A	115071144-102	***No***	NAD
45	**Location:** Boiler Room; Piping Overhead		(by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Fibrous, Pipe Insulation **Asbestos Types:** **Other Material:** Synthetic fibers 25 %, Non-fibrous 75 %			
49-B	115071144-103	***No***	NAD
45	**Location:** Boiler Room; Piping Overhead		(by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Fibrous, Pipe Insulation **Asbestos Types:** **Other Material:** Fibrous glass 80 %, Non-fibrous 20 %			
49-C	115071144-104	***No***	NAD
45	**Location:** Boiler Room; Piping Overhead		(by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Pipe Insulation **Asbestos Types:** **Other Material:** Fibrous glass 40 %, Non-fibrous 60 %			
50-A	115071144-105	***Yes***	3.3 %
46	**Location:** Exterior Front (North); Window Caulk 1911		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, **Asbestos Types:** Chrysotile 3.3 % **Other Material:** Non-fibrous 27.1 % **Comment:** Heat Sensitive (organic): 39.5%; Acid Soluble (inorganic): 30.1%; Inert (Non-asbestos): 27.1%			
50-B	115071144-106		NA/PS
46	**Location:** Exterior Front (North); Window Caulk 1911		
Analyst Description: **Asbestos Types:** **Other Material:** **Comment:** Heat Sensitive (organic): 39.7%; Acid Soluble (inorganic): 24.9%; Inert (Non-asbestos): 35.4%			

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PLM Bulk Asbestos Report

154034; 683 Northland; 683 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
51-A 47	115071144-107 **Location:** Exterior Front (North); Window Glaze 1911	***No***	NAD (by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Black, Heterogeneous, Non-Fibrous, **Asbestos Types:** **Other Material:** Non-fibrous 27.4 % **Comment:** Heat Sensitive (organic): 62.0%; Acid Soluble (inorganic): 10.6%; Inert (Non-asbestos): 27.4%			
51-B 47	115071144-108 **Location:** Exterior Front (North); Window Glaze 1911	***No***	NAD (by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Black, Heterogeneous, Non-Fibrous, **Asbestos Types:** **Other Material:** Non-fibrous 28.5 % **Comment:** Heat Sensitive (organic): 61.9%; Acid Soluble (inorganic): 9.6%; Inert (Non-asbestos): 28.5%			
X-51-A 48	115071144-109 **Location:** Exterior Front (North); Glaze Behind #51	***No***	NAD (by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray/White, Heterogeneous, Non-Fibrous, **Asbestos Types:** **Other Material:** Fibrous glass 75 %, Non-fibrous 3.1 % **Comment:** Heat Sensitive (organic): 19.3%; Acid Soluble (inorganic): 2.6%; Inert (Non-asbestos): 78.1%			
X-51-B 48	115071144-110 **Location:** Exterior Front (North); Glaze Behind #51	***No***	NAD (by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray/White, Heterogeneous, Non-Fibrous, **Asbestos Types:** **Other Material:** Fibrous glass 15 %, Non-fibrous 37 % **Comment:** Heat Sensitive (organic): 7.1%; Acid Soluble (inorganic): 40.9%; Inert (Non-asbestos): 52.0%			
52-A 49	115071144-111 **Location:** Exterior Front (North); Window Caulk 1920	***Yes***	2.7 % (by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, **Asbestos Types:** Chrysotile 2.7 % **Other Material:** Non-fibrous 28.8 % **Comment:** Heat Sensitive (organic): 50.6%; Acid Soluble (inorganic): 17.9%; Inert (Non-asbestos): 28.8%			

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PLM Bulk Asbestos Report

154034; 683 Northland; 683 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
52-B	115071144-112		NA/PS
49	**Location:** Exterior Front (North); Window Caulk 1920		
Analyst Description:			
Asbestos Types:			
Other Material:			
Comment: Heat Sensitive (organic): 52.0%; Acid Soluble (inorganic): 8.0%; Inert (Non-asbestos): 40.0%			
53-A	115071144-113	***No***	NAD
50	**Location:** Exterior Front (North); Window Glaze 1920		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Non-fibrous 52.8 %			
Comment: Heat Sensitive (organic): 7.9%; Acid Soluble (inorganic): 39.2%; Inert (Non-asbestos): 52.8%			
53-B	115071144-114	***No***	NAD
50	**Location:** Exterior Front (North); Window Glaze 1920		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Non-fibrous 50.2 %			
Comment: Heat Sensitive (organic): 7.5%; Acid Soluble (inorganic): 42.3%; Inert (Non-asbestos): 50.2%			
56-A	115071144-115	***No***	NAD
51	**Location:** Exterior Front (North); Pardge Coat		(by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Cementitious, Parging			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
56-B	115071144-116	***No***	NAD
51	**Location:** Exterior Front (North); Pardge Coat		(by NYS ELAP 198.1) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Cementitious, Parging			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

154034; 683 Northland; 683 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
57-A	115071144-117	***No***	NAD
52	**Location:** West Side Garage Doors; White/Grey Caulk		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Non-fibrous 20.4 %			
Comment: Heat Sensitive (organic): 59.9%; Acid Soluble (inorganic): 19.7%; Inert (Non-asbestos): 20.4%			
57-B	115071144-118	***No***	NAD
52	**Location:** West Side Garage Doors; White/Grey Caulk		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Non-fibrous 22.5 %			
Comment: Heat Sensitive (organic): 56.0%; Acid Soluble (inorganic): 21.5%; Inert (Non-asbestos): 22.5%			
58-A	115071144-119	***No***	NAD
53	**Location:** West Side Entry (1912); Door Caulk White		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Non-fibrous 26.9 %			
Comment: Heat Sensitive (organic): 10.1%; Acid Soluble (inorganic): 63.0%; Inert (Non-asbestos): 26.9%			
58-B	115071144-120	***No***	NAD
53	**Location:** West Side Entry (1912); Door Caulk White		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: White, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Non-fibrous 27.2 %			
Comment: Heat Sensitive (organic): 10.2%; Acid Soluble (inorganic): 62.6%; Inert (Non-asbestos): 27.2%			
59-A	115071144-121	***No***	NAD
54	**Location:** West Side Control/Expansion Joint; Caulk Grey		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Red/White, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Non-fibrous 35.4 %			
Comment: Heat Sensitive (organic): 43.9%; Acid Soluble (inorganic): 20.7%; Inert (Non-asbestos): 35.4%			

See Reporting notes on last page

PLM Bulk Asbestos Report

154034; 683 Northland; 683 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
59-B	115071144-122	***No***	NAD
54	**Location:** West Side Control/Expansion Joint; Caulk Grey		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Non-fibrous 34.4 %			
Comment: Heat Sensitive (organic): 43.6%; Acid Soluble (inorganic): 22.0%; Inert (Non-asbestos): 34.4%			
60-A	115071144-123	***Yes***	1.6 %
55	**Location:** 1927 Windows; Window Glaze Grey		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous,			
Asbestos Types: Chrysotile 1.6 %			
Other Material: Non-fibrous 18.7 %			
Comment: Heat Sensitive (organic): 38.1%; Acid Soluble (inorganic): 41.7%; Inert (Non-asbestos): 18.7%			
60-B	115071144-124		NA/PS
55	**Location:** 1927 Windows; Window Glaze Grey		
Analyst Description:			
Asbestos Types:			
Other Material:			
Comment: Heat Sensitive (organic): 11.6%; Acid Soluble (inorganic): 82.9%; Inert (Non-asbestos): 5.5%			
61-A	115071144-125	***No***	NAD
56	**Location:** 1927 Windows; Grey Window Caulk		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Non-fibrous 30 %			
Comment: Heat Sensitive (organic): 46.4%; Acid Soluble (inorganic): 23.6%; Inert (Non-asbestos): 30.0%			
61-B	115071144-126	***No***	NAD
56	**Location:** 1927 Windows; Grey Window Caulk		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Non-fibrous 33.2 %			
Comment: Heat Sensitive (organic): 38.4%; Acid Soluble (inorganic): 28.5%; Inert (Non-asbestos): 33.2%			

See Reporting notes on last page

PLM Bulk Asbestos Report

154034; 683 Northland; 683 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
62-A 57	115071144-127 **Location:** 1964 Windows; Grey Window Glaze	***No***	NAD (by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, **Asbestos Types:** **Other Material:** Fibrous Talc 5 %, Non-fibrous 18.3 % **Comment:** Heat Sensitive (organic): 26.5%; Acid Soluble (inorganic): 50.2%; Inert (Non-asbestos): 23.3%			
62-B 57	115071144-128 **Location:** 1964 Windows; Grey Window Glaze	***No***	NAD (by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, **Asbestos Types:** **Other Material:** Fibrous Talc 5 %, Non-fibrous 18.2 % **Comment:** Heat Sensitive (organic): 26.3%; Acid Soluble (inorganic): 50.6%; Inert (Non-asbestos): 23.2%			
63-A 58	115071144-129 **Location:** 1964 Windows; White Window Putty	***Yes***	3.2 % (by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, **Asbestos Types:** Chrysotile 3.2 % **Other Material:** Non-fibrous 20.6 % **Comment:** Heat Sensitive (organic): 64.4%; Acid Soluble (inorganic): 11.8%; Inert (Non-asbestos): 20.6%			
63-B 58	115071144-130 **Location:** 1964 Windows; White Window Putty		NA/PS
Analyst Description: **Asbestos Types:** **Other Material:** **Comment:** Heat Sensitive (organic): 64.7%; Acid Soluble (inorganic): 11.3%; Inert (Non-asbestos): 23.9%			
64-A 59	115071144-131 **Location:** South Side Expansion Joint; Grey Caulk	***No***	NAD (by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, **Asbestos Types:** **Other Material:** Non-fibrous 3 % **Comment:** Heat Sensitive (organic): 37.1%; Acid Soluble (inorganic): 60.0%; Inert (Non-asbestos): 3.0%			

See Reporting notes on last page

PLM Bulk Asbestos Report

154034; 683 Northland; 683 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
64-B	115071144-132	***No***	NAD
59	**Location:** South Side Expansion Joint; Grey Caulk		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Non-fibrous 3.6 %			
Comment: Heat Sensitive (organic): 40.5%; Acid Soluble (inorganic): 55.8%; Inert (Non-asbestos): 3.6%			
65-A	115071144-133	***No***	NAD
60	**Location:** Exterior Bay Garage South; Caulk Grey		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Non-fibrous 4.4 %			
Comment: Heat Sensitive (organic): 36.5%; Acid Soluble (inorganic): 59.1%; Inert (Non-asbestos): 4.4%			
65-B	115071144-134	***No***	NAD
60	**Location:** Exterior Bay Garage South; Caulk Grey		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Non-fibrous 27.2 %			
Comment: Heat Sensitive (organic): 50.0%; Acid Soluble (inorganic): 22.8%; Inert (Non-asbestos): 27.2%			
66-A	115071144-135	***Yes***	1.8 %
61	**Location:** Exterior FG Windows South; Glaze/Caulk White		(by NYS ELAP 198.6) by J. Samuel Baird on 07/07/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous,			
Asbestos Types: Chrysotile 1.8 %			
Other Material: Non-fibrous 9.2 %			
Comment: Heat Sensitive (organic): 41.8%; Acid Soluble (inorganic): 47.2%; Inert (Non-asbestos): 9.2%			
66-B	115071144-136		NA/PS
61	**Location:** Exterior FG Windows South; Glaze/Caulk White		
Analyst Description:			
Asbestos Types:			
Other Material:			
Comment: Heat Sensitive (organic): 41.9%; Acid Soluble (inorganic): 47.1%; Inert (Non-asbestos): 11.0%			

See Reporting notes on last page

PLM Bulk Asbestos Report

154034; 683 Northland; 683 Northland Ave, NY

Reporting Notes:

Analyzed by: J. Samuel Baird _____ Date 7/7/15

*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By:_____

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BULK CHAIN OF CUSTODY

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TOLL FREE: (800) 476-5227
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FAX: (804) 763-1800

Company:	Fisher Associates	Project:	683 NORTHLAND
Street Address:	135 Calkins Road	AmeriSci #:	115071144
City:	Rochester State: NY Zip: 14623	Proj Mgr:	MARK STEIN
Phone:	585-334-1310 Fax: 585-334-1361	Proj #:	154039
Cell:	585-353-4731 Fax:	Proj Address:	683 NORTHLAND AVE
E-mail	mstein@fisherassoc.com Verbal Results: Y / N	Proj State:	NY
Results to:	Mark Stein	Analysis:	__PLM; __ Positive Stop; __TEM; X NY ELAP PLM/TEM w/ NOB Prep.
			ASTM Dust __(Microvac) __(Wipe); __Qualitative; __Other (describe in comments)
		Turnaround Time:	5-DAY
		Material Type:	X Bulk __Dust __Water
		Sampled By:	MTS
		Date Sampled:	6/18/15-6/24/15

Special Instructions or Comments:
STOP POSITIVE

Lab ID	Field ID	Location	Sample Description (dust area)	Homogenous Area
	1-A	4th FLOOR OFFICE SPACE	TAN 12x12	
	1-B	↓ ↓	" "	
	2-A		DARK BROWN 12x12	
	2-B		" "	
	3-A		BLACK MASTIC	
	3-B	4th FLOOR OFFICE SPACE	" "	
	4-A	OFFICE	WHITE BASE COAT PLASTER	
	4-B	OFFICE	↓ ↓ ↓	
	4-C	OFFICE		
	4-D	OFFICE		
	4-E	OFFICE		
	4-F	OFFICE		
	4-G	OFFICE	White BASE COAT PLASTER	
	5-A	OFFICE	GREY BASE COAT PLASTER	
	5-B	OFFICE	↓ ↓	
	5-C	OFFICE		
	5-D	OFFICE		

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Company:	Fisher Associates	Project:	683 NORTHLAND
Street Address:	135 Calkins Road	Proj Mgr:	MARK STEIN
City:	Rochester	State: NY	Zip: 14623
Phone:	585-334-1310	Fax:	585-334-1361
Cell:	585-353-4731	Fax:	
E-mail	mstein@fisherassoc.com	Verbal Results: Y / N	
Results to:	Mark Stein		

AMERISCI #: 115071144

Proj #: 154034

Proj Address: 683 NORTHLAND AVE — Proj State: NY

Analysis: __PLM; __ Positive Stop; __TEM; X NY ELAP PLM/TEM w/ NOB Prep.

ASTM Dust __ (Microvac) __ (Wipe); __ Qualitative; __ Other (describe in comments)

Turnaround Time: 5-DAY — Material Type: X Bulk __ Dust __ Water

Sampled By: MTS — Date Sampled: 6/18/15 - 6/24/15

Special Instructions or Comments:

STOP POSITIVE

Lab ID	Field ID	Location	Sample Description (dust area)	Homogenous Area
	5-E	OFFICE	GREY BASE COAT PLASTER	
	5-F	OFFICE	↓ ↓ ↓	
	5-G	OFFICE	GREY BASE COAT PLASTER	
	6-A	OFFICE	BLACK COVE BASE	
	6-B	OFFICE	" "	
	7-A	OFFICE	YELLOW CB MASTIC	
	7-B	OFFICE	" "	
	8-A	OFFICE	GYPSUM BOARD CEILING TILE	
	8-B	OFFICE	" " "	
	9-A	OFFICE BATHROOM 4th FLOOR	BLUE WALL/FLOOR TILE	
	9-B	↓ ↓	" " " "	
	10-A		WHITE WALL GROUT	
	10-B		" " "	
	11-A		GREY WALL ADHESIVE	
	11-B		" " "	
	12-A		WALL THIN SET	
	12-B	OFFICE BATHROOM 4th FLOOR	" " "	

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Company:	Fisher Associates	Project:	683 NORTHLAND
Street Address:	135 Calkins Road	Proj Mgr:	MARK STEIN
City:	Rochester	State: NY	Zip: 14623
Phone:	585-334-1310	Fax:	585-334-1361
Cell:	585-353-4731	Fax:	
E-mail	mstein@fishersassoc.com	Verbal Results: Y / N	
Results to:	Mark Stein		

AMERISCI #: 115071144
Proj #: 154034
Proj Address: 683 NORTHLAND AVE
Proj State: NY
Analysis: __PLM; __ Positive Stop; __TEM; X NY ELAP PLM/TEM w/ NOB Prep.
ASTM Dust __ (Microvac) __ (Wipe); __ Qualitative; __ Other (describe in comments)
Turnaround Time: 5-DAY
Material Type: X Bulk __ Dust __ Water
Sampled By: MTS
Date Sampled: 6/18/15 - 6/24/15

Special Instructions or Comments:
STOP POSITIVE

Lab ID	Field ID	Location	Sample Description (dust area)	Homogenous Area
	13-A	OFFICE BATHROOM	FLOOR GROUT	
	13-B	↓ ↓	↓ ↓	
	14-A		FLOOR TILE SET	
	14-B	↓ ↓	↓ ↓ ↓	
	15-A	EAST OFFICE 4th FLOOR	RED 9x9 FLOORTILE	
	15-B	↓ ↓ ↓	↓ ↓ FLOORTILE	
	16-A		DARK GREEN 9x9 FLOORTILE	
	16-B	↓ ↓	↓ ↓	
	17-A	OFFICE WINDOWS NORTH	Interior Window GLAZE	
	17-B	" " "	" " "	
	18-A	3rd FLOOR	BLACK MASTIC under 9x9	
	18-B	" "	" "	
	19-A	OFFICE BLOCK WINDOWS SOUTH	MORTAR	
	19-B	" "	"	
	20-A	OFFICE AREA 2nd ½ FLOOR	GREEN 9x9 FLOORTILE	
	20-B	" "	" " "	

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Company: Fisher Associates

Street Address: 135 Calkins Road

City: Rochester State: NY Zip: 14623

Phone: 585-334-1310 Fax: 585-334-1361

Cell: 585-353-4731 Fax:

E-mail mstein@fisherassoc.com Verbal Results: Y / N

Results to: Mark Stein

Project: 683 NORTHLAND AMERISCI #: 115071144

Proj Mgr: MARK STEIN Proj #: 154034

Proj Address: 683 NORTHLAND AVE Proj State: NY

Analysis: __PLM; __Positive Stop; __TEM; X NY ELAP PLM/TEM w/ NOB Prep.

ASTM Dust __(Microvac) __(Wipe); __Qualitative; __Other (describe in comments)

Turnaround Time: 5-DAY Material Type: X Bulk __Dust __Water

Sampled By: MTS Date Sampled: 6/18/15-6/24/15

Special Instructions or Comments:

STOP POSITIVE

Lab ID	Field ID	Location	Sample Description (dust area)	Homogenous Area
	21-A	OFFICE ON FLOOR 2 ½	TAN 9x9 FLOORTILE	
	21-B	" " " "	" " "	
	22-A		BROWN COVE BASE	
	22-B		" " "	
	23-A	2nd FLOOR OFFICE	YELLOW CARPET GLUE	
	23-B		" " "	
	24-A	MAIN FLOOR OFFICE BLDG	BROWN QUARRY TILE	
	24-B		" " "	
	25-A		GREY GROUT	
	25-B		" "	
	26-A		GREY SET	
	26-B		" "	
	27-A		WHITE DRY WALL	
	27-B		" " "	
	28-A		WHITE JOINT COMPOUND	
	28-B	MAIN FLOOR OFFICE BLDG	" " "	

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Company: Fisher Associates		Project: 683 NORTHLAND	AMERISCI #: 115071144
Street Address: 135 Calkins Road		Proj Mgr: MARK STEIN	Proj #: 154034
City: Rochester	State: NY Zip: 14623	Proj Address: 683 NORTHLAND AVE	Proj State: NY
Phone: 585-334-1310	Fax: 585-334-1361	Analysis: __PLM; __ Positive Stop; __TEM; X NY ELAP PLM/TEM w/ NOB Prep.	
Cell: 585-353-4731	Fax:	ASTM Dust __(Microvac) __(Wipe); __Qualitative; __Other (describe in comments)	
E-mail mstein@fishersassoc.com	Verbal Results: Y / N	Turnaround Time: 5-DAY	Material Type: X Bulk __Dust __Water
Results to: Mark Stein		Sampled By: MTS	Date Sampled: 6/18/15 - 6/24/15

Special Instructions or Comments:

STOP POSITIVE

Lab ID	Field ID	Location	Sample Description (dust area)	Homogenous Area
	29-A	MAIN FLOOR OFFICE BLDG	BEIGE DRYWALL TAPE	
	29-B	↓ ↓	↓ ↓	
	30-A	↓ ↓ STAIRS	Ceiling Tile	
	30-B	↓ ↓ ↓	↓ ↓	
	31-A	FACTORY Northwall EAST SIDE	Pipe wrap white on F.G.	
	31-B	↓ ↓ ↓	↓ ↓ ↓	
	33-A	INTERIOR WINDOW	(WINDOW GLAZE/CAULK ON BLOCK WINDOWS)	
	33-B	↓ ↓	↓ ↓ ↓	
	X-33-A	INTERIOR WINDOWS	WINDOW CAULK.	
	X-33-B	↓ ↓	↓ ↓	
	34-A	FACTORY FLOOR	TAR ON WOOD BLOCKS	
	34-B	↓ ↓	↓ ↓	
	36-A	~~SPRAY ON INSULATION~~ 1912 Addition	SPRAY ON COATING	
	36-B	↓ WALLS & CEILING	↓ ↓	
	36-C	↓ ↓	↓ ↓	
	37-A	FORGE AREA	INSULATION "BRICK LIKE"	
	37-B	↓ ↓	↓ ↓	

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#35
No Sample #32 collected

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Company: Fisher Associates		Project: 683 NORTHLAND	AMERISCI #: 115071144
Street Address: 135 Calkins Road		Proj Mgr: MARK STEIN	Proj #: 154034
City: Rochester	State: NY Zip: 14623	Proj Address: 683 NORTHLAND AVE	Proj State: NY
Phone: 585-334-1310	Fax: 585-334-1361	Analysis: __PLM; __ Positive Stop; __TEM; X NY ELAP PLM/TEM w/ NOB Prep.	
Cell: 585-353-4731	Fax:	ASTM Dust __ (Microvac) __ (Wipe); __ Qualitative; __ Other (describe in comments)	
E-mail mstein@fishersassoc.com	Verbal Results: Y / N	Turnaround Time: 5-DAY	Material Type: X Bulk __ Dust __ Water
Results to: Mark Stein		Sampled By: MTS	Date Sampled: 6/18/15 - 6/24/15

Special Instructions or Comments:

STOP POSITIVE

Lab ID	Field ID	Location	Sample Description (dust area)	Homogenous Area
	38-A	FORGE AREA	BRICK IN FURNACE/KILN	
	38-B	↓ ↓	↓ ↓	
	39-A		MORTAR IN FURNACE/KILN	
	39-B		↓ ↓	
	X-39-A		INSULATION IN TOP OF FURNACE/KILN	
	X-39-B			
	40-A	1981 ERA GARAGE DOOR INTERIOR	INTERIOR CAULK	
	40-B	" " "	" "	
	41-A	SOUTH END OFFICE POD	CEILING TILE	
	41-B	↓ ↓	" "	
	45-A	BOILER ROOM	Boiler Wrap	
	45-B	↓	↓ ↓	
	46-A		Boiler Insulation	
	46-B		↓ ↓	
	47-A		Piping Attached to Boiler	
	47-B	↓	↓ ↓	
	47-C	BOILER ROOM		

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By

Relinquished By:		Date/Time:	6/28/15
Received By:		Date/Time:	
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BULK CHAIN OF CUSTODY

AMERISCI RICHMOND
13635 GENITO ROAD
MIDLOTHIAN, VA 23112
TOLL FREE: (800) 476-5227
PHONE: (804) 763-1200
FAX: (804) 763-1800

Company:	Fisher Associates	Project:	683 NORTHLAND
Street Address:	135 Calkins Road	AMERISCI #:	115071144
City:	Rochester State: NY Zip: 14623	Proj Mgr:	MARK STEIN Proj #: 154034
Phone:	585-334-1310 Fax: 585-334-1361	Proj Address:	683 NORTHLAND AVE Proj State: NY
Cell:	585-353-4731 Fax:	Analysis:	__PLM; __ Positive Stop; __TEM; X NY ELAP PLM/TEM w/ NOB Prep.
E-mail	mstein@Fishersassoc.com Verbal Results: Y / N		ASTM Dust __ (Microvac) __ (Wipe); __ Qualitative; __ Other (describe in comments)
Results to:	Mark Stein	Turnaround Time:	5-DAY Material Type: X Bulk __ Dust __ Water
		Sampled By:	MTS Date Sampled: 6/18/15 - 6/24/15

Special Instructions or Comments:

STOP POSITIVE

Lab ID	Field ID	Location	Sample Description (dust area)	Homogenous Area
	48-A	Boiler Room	Piping on west wall	
	49-A		PIPING OVERHEAD	
	49-B			
	49-C			
	50-A	EXTERIOR FRONT (NORTH)	WINDOW CAULK 1911	
	50-B			
	51-A		WINDOW GLAZE 1911	
	51-B			
	X-51-A		GLAZE BEHIND #51	
	X-51-B			
	52-A		WINDOW CAULK 1920	
	52-B			
	53-A		WINDOW GLAZE 1920	
	53-B			
	56-A		PAROGE COAT	
	56-B			

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No Sample 54 + 55

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Received By:		Date/Time:	

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BULK CHAIN OF CUSTODY

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13635 GENITO ROAD
MIDLOTHIAN, VA 23112
TOLL FREE: (800) 476-5227
PHONE: (804) 763-1200
FAX: (804) 763-1800

Company: Fisher Associates		Project: 683 NORTHLAND	AMERISCI #: 115071144
Street Address: 135 Calkins Road		Proj Mgr: MARK STEIN	Proj #: 54034
City: Rochester	State: NY Zip: 14623	Proj Address: 683 NORTHLAND AVE	Proj State: NY
Phone: 585-334-1310	Fax: 585-334-1361	Analysis: __PLM; __ Positive Stop; __TEM; X NY ELAP PLM/TEM w/ NOB Prep.	
Cell: 585-353-4731	Fax:	ASTM Dust __ (Microvac) __ (Wipe); __ Qualitative; __ Other (describe in comments)	
E-mail mstein@Fishersassoc.com	Verbal Results: Y / N	Turnaround Time: 5-DAY	Material Type: X Bulk __ Dust __ Water
Results to: Mark Stein J		Sampled By: MTS	Date Sampled: 6/18/15 - 6/24/15

Special Instructions or Comments:

STOP POSITIVE

Lab ID	Field ID	Location	Sample Description (dust area)	Homogenous Area
	57-A	WEST SIDE GARAGE DOORS	WHITE/GREY CAULK	
	57-B		↓ ↓	
	58-A	WEST SIDE ENTRY (1910)	DOOR CAULK WHITE	
	58-B	↓ ↓	↓ ↓ ↓	
	59-A	WEST SIDE CONTROL / EXPANSION JOINT	CAULK GREY	
	59-B	↓ ↓	↓ ↓	
	60-A	1927 WINDOWS	WINDOW GLAZE GREY	
	60-B	↓ ↓	↓ ↓ ↓	
	61-A		GREY WINDOW ~~PUTTY~~ CAULK	
	61-B	↓ ↓	↓ ↓	
	62-A	1964 WINDOWS	GREY WINDOW GLAZE	
	62-B		↓ ↓ ↓	
	63-A		WHITE WINDOW PUTTY	
	63-B	↓ ↓	↓ ↓ ↓	
	64-A	SOUTH SIDE EXPANSION JOINT	GREY CAULK	
	64-B	↓ ↓ ↓ ↓	↓ ↓	

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Received By:		Date/Time:
Relinquished By:		Date/Time:
Received By:		Date/Time:

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BULK CHAIN OF CUSTODY

AMERISCI RICHMOND
13635 GENITO ROAD
MIDLOTHIAN, VA 23112
TOLL FREE: (800) 476-5227
PHONE: (804) 763-1200
FAX: (804) 763-1800

Company: Fisher Associates	Project: 683 NORTHLAND	AMERISCI #: 115071144	
Street Address: 135 Calkins Road	Proj Mgr: MARK STEIN	Proj #: 154034	
City: Rochester State: NY Zip: 14623	Proj Address: 683 NORTHLAND AVE	Proj State: NY	
Phone: 585-334-1310 Fax: 585-334-1361	Analysis: __PLM; __Positive Stop; __TEM; X NY ELAP PLM/TEM w/ NOB Prep.		
Cell: 585-353-4731 Fax:	ASTM Dust __(Microvac) __(Wipe); __Qualitative; __Other (describe in comments)		
E-mail mstein@fishersassoc.com Verbal Results: Y / N	Turnaround Time: 5-DAY	Material Type: X Bulk __Dust __Water	
Results to: Mark Stein J	Sampled By: MTS	Date Sampled: 6/18/15-7 6/24/15	

Special Instructions or Comments:

STOP POSITIVE

Lab ID	Field ID	Location	Sample Description (dust area)	Homogenous Area
	65-A	EXTERIOR BAY GARAGE SOUTH	CAULK Grey	
	65-B	↓ ↓	↓	
	66-A	EXTERIOR ~~GLAZE/CAULK OR~~ F.G. WINDOWS	GLAZE / CAULK White	
	66-B	↓ ↓ SOUTH	↓ ↓	

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By

Please Reply To:

AmeriSci Richmond
13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

FACSIMILE TELECOPY TRANSMISSION

To: Mark Stein
Fisher Associates
Fax #:

Email: MStein@FisherAssoc.com

From: William M. Dunstan
AmeriSci Job #: 115071147
Subject: ELAP-PLM/TEM 5 day Results
Client Project: 154034; 741 Northland; 741 Northland Ave, NY

Date: Monday, July 06, 2015
Time: 12:23:59
Comments:

Number of Pages: 10
(including cover sheet)

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AmeriSci Job #: **115071147**

Client Name: Fisher Associates

Table I
Summary of Bulk Asbestos Analysis Results

154034; 741 Northland; 741 Northland Ave, NY

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01	1-A		----	----	----	----	Chrysotile 16.0	NA
Location:	Exterior; Transite Panel Grey							
02	2-A	2	----	----	----	----	Chrysotile 14.8	NA
Location:	Interior; White Steam Pipe Insulation							
03	2-B	2	----	----	----	----	NA/PS	NA
Location:	Interior; White Steam Pipe Insulation							
04	3-A		0.228	71.4	6.0	12.5	Chrysotile 10.0	NA
Location:	Interior Floor; Roofing Material							
05	3-B		0.284	65.0	7.2	19.2	Chrysotile 8.6	NA
Location:	Interior Floor; Roofing Material							
06	3-C		0.402	90.3	1.1	8.5	NAD	Chrysotile Trace
Location:	Interior Floor; Roofing Material							
07	4-A	4	0.377	19.7	61.3	19.0	Chrysotile <0.25	Chrysotile Trace
Location:	Warehouse Area; 12x12 Tan Floor Tile							
08	4-B	4	0.295	19.8	61.7	18.4	Chrysotile <0.25	Chrysotile Trace
Location:	Warehouse Area; 12x12 Tan Floor Tile							
09	5-A	5	0.264	24.1	18.1	50.1	Chrysotile 7.7	NA
Location:	Entryway Northend; 9x9 Grey Floor Tile							
10	5-B	5	0.207	24.0	20.7	55.3	NA/PS	NA
Location:	Entryway Northend; 9x9 Grey Floor Tile							
11	6-A	6	0.364	8.7	82.1	8.1	Chrysotile <0.25	Chrysotile 1.1
Location:	Northend Windows; Grey Window Glaze							
12	6-B	6	0.363	8.1	82.1	9.8	Chrysotile <0.25	NA/PS
Location:	Northend Windows; Grey Window Glaze							
13	7-A		0.250	79.5	3.8	16.6	Chrysotile <0.25	Chrysotile Trace
Location:	Southside Interior; Black Roofing Material							
14	7-B		0.253	77.2	3.3	18.3	Chrysotile <0.25	Chrysotile 1.2
Location:	Southside Interior; Black Roofing Material							
15	7-C		0.168	86.5	2.3	5.6	Chrysotile 5.6	NA
Location:	Southside Interior; Black Roofing Material							
16	7-D		0.265	54.5	26.7	18.8	NAD	NAD
Location:	Southside Interior; Black Roofing Material							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results
154034; 741 Northland; 741 Northland Ave, NY

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
17	7-E		0.253	93.2	0.7	6.1	NAD	NAD
Location:	Southside Interior; Black Roofing Material							
18	7-F		0.166	50.7	4.5	44.8	NAD	NAD
Location:	Southside Interior; Black Roof Material 6							
19	8-A	8	0.331	43.2	22.9	21.6	Chrysotile 12.3	NA
Location:	Exterior Caulk Northside; Grey Caulking LG Window							
20	8-B	8	0.289	43.1	22.9	34.0	NA/PS	NA
Location:	Exterior Caulk Northside; Grey Caulking LG Window							
21	9-A	9	0.162	42.2	19.1	25.8	Chrysotile 12.9	NA
Location:	Exterior Caulk West Side; Grey Caulking SM Window							
22	9-B	9	0.308	44.5	21.7	33.8	NA/PS	NA
Location:	Exterior Caulk West Side; Grey Caulking SM Window							

Reviewed by: _____ Date Reviewed: _____ Analyzed By: Cory M. Parnell _____ Date Analyzed: 7/6/2015

Semi-Quantitative Analysis: NAD = no asbestos detected; NA = not analyzed; NA/PS = not analyzed due to positive stop; Trace = <1%;
PLM analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) or NY ELAP 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NY ELAP Lab # 10984);
TEM analysis by EPA 600/R-93/116 (not covered by NVLAP Bulk accreditation); or NY ELAP 198.4 for New York NOB samples (NY ELAP Lab # 10984);

** Warning Notes: Consider PLM fiber diameter limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris, soils or other heterogeneous materials for which a combination PLM/TEM evaluation is recommended; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only.

AmeriSci Richmond
13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

PLM Bulk Asbestos Report

Fisher Associates
Attn: Mark Stein
135 Calkins Road, Suite A

Rochester, NY 14623

Date Received 07/02/15 **AmeriSci Job #** 115071147
Date Examined 07/06/15 **P.O. #**
ELAP # 10984 **Page** 1 **of** 5
RE: 154034; 741 Northland; 741 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
1-A	115071147-01	*Yes*	16 % (by NYS ELAP 198.1) by William M. Dunstan on 07/06/15
Location: Exterior; Transite Panel Grey			
Analyst Description: Gray, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types: Chrysotile 16.0 %			
Other Material: Non-fibrous 84 %			
2-A	115071147-02	*Yes*	14.8 % (by NYS ELAP 198.1) by William M. Dunstan on 07/06/15
2 **Location:** Interior; White Steam Pipe Insulation			
Analyst Description: White, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types: Chrysotile 14.8 %			
Other Material: Non-fibrous 85.2 %			
2-B	115071147-03		NA/PS
2 **Location:** Interior; White Steam Pipe Insulation			
Analyst Description: Bulk Material			
Asbestos Types:			
Other Material:			
3-A	115071147-04	*Yes*	10 % (by NYS ELAP 198.6) by William M. Dunstan on 07/06/15
Location: Interior Floor; Roofing Material			
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile 10.0 %			
Other Material: Non-fibrous 12.5 %			
Comment: Heat Sensitive (organic): 71.4%; Acid Soluble (inorganic): 6.0%; Inert (Non-asbestos): 12.5%			

See Reporting notes on last page

PLM Bulk Asbestos Report

154034; 741 Northland; 741 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
3-B	115071147-05	***Yes***	8.6 %
	Location: Interior Floor; Roofing Material		(by NYS ELAP 198.6) by William M. Dunstan on 07/06/15
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile 8.6 %			
Other Material: Non-fibrous 19.2 %			
Comment: Heat Sensitive (organic): 65.0%; Acid Soluble (inorganic): 7.2%; Inert (Non-asbestos): 19.2%			
3-C	115071147-06	***No***	NAD
	Location: Interior Floor; Roofing Material		(by NYS ELAP 198.6) by William M. Dunstan on 07/06/15
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 8.6 %			
Comment: Heat Sensitive (organic): 90.3%; Acid Soluble (inorganic): 1.1%; Inert (Non-asbestos): 8.6%			
4-A	115071147-07	***Yes***	Trace (<0.25 % pc)
4	**Location:** Warehouse Area; 12x12 Tan Floor Tile		(EPA 400 PC) by William M. Dunstan on 07/06/15
Analyst Description: Tan/Brown, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile <0.25 % pc			
Other Material: Non-fibrous 19.1 %			
Comment: Heat Sensitive (organic): 19.7%; Acid Soluble (inorganic): 61.3%; Inert (Non-asbestos): 19.1%			
4-B	115071147-08	***Yes***	Trace (<0.25 % pc)
4	**Location:** Warehouse Area; 12x12 Tan Floor Tile		(EPA 400 PC) by William M. Dunstan on 07/06/15
Analyst Description: Tan/Brown, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile <0.25 % pc			
Other Material: Non-fibrous 18.5 %			
Comment: Heat Sensitive (organic): 19.8%; Acid Soluble (inorganic): 61.7%; Inert (Non-asbestos): 18.5%			
5-A	115071147-09	***Yes***	7.7 %
5	**Location:** Entryway Northend; 9x9 Grey Floor Tile		(by NYS ELAP 198.6) by William M. Dunstan on 07/06/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile 7.7 %			
Other Material: Non-fibrous 50.1 %			
Comment: Heat Sensitive (organic): 24.1%; Acid Soluble (inorganic): 18.1%; Inert (Non-asbestos): 50.1%			

See Reporting notes on last page

PLM Bulk Asbestos Report

154034; 741 Northland; 741 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
5-B	115071147-10		NA/PS
5	**Location:** Entryway Northend; 9x9 Grey Floor Tile		

Analyst Description: Bulk Material
Asbestos Types:
Other Material:
Comment: Heat Sensitive (organic): 24.0%; Acid Soluble (inorganic): 20.7%; Inert (Non-asbestos): 55.3%

6-A	115071147-11	***Yes***	Trace (<0.25 % pc)
6	**Location:** Northend Windows; Grey Window Glaze		(EPA 400 PC) by William M. Dunstan on 07/06/15

Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material
Asbestos Types: Chrysotile <0.25 % pc
Other Material: Non-fibrous 9.2 %
Comment: Heat Sensitive (organic): 8.7%; Acid Soluble (inorganic): 82.1%; Inert (Non-asbestos): 9.2%

6-B	115071147-12	***Yes***	Trace (<0.25 % pc)
6	**Location:** Northend Windows; Grey Window Glaze		(EPA 400 PC) by William M. Dunstan on 07/06/15

Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material
Asbestos Types: Chrysotile <0.25 % pc
Other Material: Non-fibrous 9.8 %
Comment: Heat Sensitive (organic): 8.1%; Acid Soluble (inorganic): 82.1%; Inert (Non-asbestos): 9.8%

7-A	115071147-13	***Yes***	Trace (<0.25 % pc)
	Location: Southside Interior; Black Roofing Material		(EPA 400 PC) by William M. Dunstan on 07/06/15

Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material
Asbestos Types: Chrysotile <0.25 % pc
Other Material: Non-fibrous 16.7 %
Comment: Heat Sensitive (organic): 79.5%; Acid Soluble (inorganic): 3.8%; Inert (Non-asbestos): 16.7%

7-B	115071147-14	***Yes***	Trace (<0.25 % pc)
	Location: Southside Interior; Black Roofing Material		(EPA 400 PC) by William M. Dunstan on 07/06/15

Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material
Asbestos Types: Chrysotile <0.25 % pc
Other Material: Non-fibrous 19.5 %
Comment: Heat Sensitive (organic): 77.2%; Acid Soluble (inorganic): 3.3%; Inert (Non-asbestos): 19.5%

See Reporting notes on last page

PLM Bulk Asbestos Report

154034; 741 Northland; 741 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
7-C	115071147-15	***Yes***	5.6 % (by NYS ELAP 198.6) by William M. Dunstan on 07/06/15
Location: Southside Interior; Black Roofing Material			
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile 5.6 %			
Other Material: Non-fibrous 5.6 %			
Comment: Heat Sensitive (organic): 86.5%; Acid Soluble (inorganic): 2.3%; Inert (Non-asbestos): 5.6%			
7-D	115071147-16	***No***	NAD (by NYS ELAP 198.6) by William M. Dunstan on 07/06/15
Location: Southside Interior; Black Roofing Material			
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 18.8 %			
Comment: Heat Sensitive (organic): 54.5%; Acid Soluble (inorganic): 26.7%; Inert (Non-asbestos): 18.8%			
7-E	115071147-17	***No***	NAD (by NYS ELAP 198.6) by William M. Dunstan on 07/06/15
Location: Southside Interior; Black Roofing Material			
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 6.1 %			
Comment: Heat Sensitive (organic): 93.2%; Acid Soluble (inorganic): 0.7%; Inert (Non-asbestos): 6.1%			
7-F	115071147-18	***No***	NAD (by NYS ELAP 198.6) by William M. Dunstan on 07/06/15
Location: Southside Interior; Black Roof Material 6			
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 44.8 %			
Comment: Heat Sensitive (organic): 50.7%; Acid Soluble (inorganic): 4.5%; Inert (Non-asbestos): 44.8%			
8-A	115071147-19	***Yes***	12.3 % (by NYS ELAP 198.6) by William M. Dunstan on 07/06/15
8			
Location: Exterior Caulk Northside; Grey Caulking LG Window			
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile 12.3 %			
Other Material: Non-fibrous 21.6 %			
Comment: Heat Sensitive (organic): 43.2%; Acid Soluble (inorganic): 22.9%; Inert (Non-asbestos): 21.6%			

See Reporting notes on last page

PLM Bulk Asbestos Report

154034; 741 Northland; 741 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8-B	115071147-20		NA/PS
8	**Location:** Exterior Caulk Northside; Grey Caulking LG Window		
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:** **Comment:** Heat Sensitive (organic): 43.1%; Acid Soluble (inorganic): 22.9%; Inert (Non-asbestos): 34.0%			
9-A	115071147-21	***Yes***	12.9 % (by NYS ELAP 198.6) by William M. Dunstan on 07/06/15
9	**Location:** Exterior Caulk West Side; Grey Caulking SM Window		
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 12.9 % **Other Material:** Non-fibrous 25.8 % **Comment:** Heat Sensitive (organic): 42.2%; Acid Soluble (inorganic): 19.1%; Inert (Non-asbestos): 25.8%			
9-B	115071147-22		NA/PS
9	**Location:** Exterior Caulk West Side; Grey Caulking SM Window		
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:** **Comment:** Heat Sensitive (organic): 44.5%; Acid Soluble (inorganic): 21.7%; Inert (Non-asbestos): 33.8%			

Reporting Notes:

Analyzed by: William M. Dunstan William M. Dunstan Date 7/6/15

*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By:_____

115071147

Relinquished By:		Date/Time:	6/28/15
Received By:		Date/Time:	
Relinquished By:		Date/Time:	
Received By:		Date/Time:	

AMERISCI
WWW.AMERISCI.COM

BULK CHAIN OF CUSTODY

AMERISCI RICHMOND
13635 GENITO ROAD
MIDLOTHIAN, VA 23112
TOLL FREE: (800) 476-5227
PHONE: (804) 763-1200
FAX: (804) 763-1800

Company: Fisher Associates		Project: 741 NORTHLAND	AMERISCI #:
Street Address: 135 Calkins Road		Proj Mgr: MARK STEIN	Proj #: 154034
City: Rochester	State: NY Zip: 14623	Proj Address: 741 NORTHLAND AVE	Proj State: NY
Phone: 585-334-1310	Fax: 585-334-1361	Analysis: __PLM; __ Positive Stop; __TEM; X NY ELAP PLM/TEM w/ NOB Prep.	
Cell: 585-353-4731	Fax:	ASTM Dust __ (Microvac) __ (Wipe); __ Qualitative; __ Other (describe in comments)	
E-mail mstein@fishersassoc.com	Verbal Results: Y / N	Turnaround Time: 5-DAY	Material Type: X Bulk __ Dust __ Water
Results to: Mark Stein J		Sampled By: MTS	Date Sampled: 6/24/15

Special Instructions or Comments:
STOP POSITIVE (EXCEPT 3A,B,C & 7ABCDEF READ ALL)

Lab ID	Field ID	Location	Sample Description (dust area)	Homogenous Area
	1-A	EXTERIOR	TRASITE PANEL GREY	
	2-A	INTERIOR	WHITE STEAM PIPE INSULATION	
	2-B	" "	" " " "	
	3-A	INTERIOR FLOOR	ROOFING MATERIAL 1	
	3-B	↓ ↓	" " 2	
	3-C		" " 3	
	4-A	WAREHOUSE AREA	12X12 TAN FLOORTILE	
	4-B	" "	" " "	
	5-A	ENTRYWAY NORTHEND	9x9 GREY FLOORTILE	
	5-B	" " "	" " "	
	6-A	NORTHEND WINDOWS	GREY WINDOW GLAZE	
	6-B	" "	" " "	
	7-A	SOUTHSIDE INTERIOR	BLACK ROOFING MATERIAL 1	
	7-B	↓ ↓	↓ ↓ ↓ 2	
	7-C		3	
	7-D		4	
	7-E		5	

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BULK CHAIN OF CUSTODY

AMERISCI RICHMOND
13635 GENITO ROAD
MIDLOTHIAN, VA 23112
TOLL FREE: (800) 476-5227
PHONE: (804) 763-1200
FAX: (804) 763-1800

Company: Fisher Associates	Project: 741 NORTHLAND — AMERISCI #:
Street Address: 135 Calkins Road	Proj Mgr: MARK STEIN — Proj #: 154034
City: Rochester State: NY Zip: 14623	Proj Address: 741 NORTHLAND AVE — Proj State: NY
Phone: 585-334-1310 Fax: 585-334-1361	Analysis: __PLM; __ Positive Stop; __TEM; X NY ELAP PLM/TEM w/ NOB Prep.
Cell: 585-353-4731 Fax:	ASTM Dust __ (Microvac) __ (Wipe); __ Qualitative; __ Other (describe in comments)
E-mail mstein@fisherassoc.com Verbal Results: Y / N	Turnaround Time: 5-DAY — Material Type: X Bulk __ Dust __ Water
Results to: Mark Stein	Sampled By: MTS — Date Sampled: 6/24/15

Special Instructions or Comments:

STOP POSITIVE

Lab ID	Field ID	Location	Sample Description (dust area)	Homogenous Area
	7-F	SOUTHSIDE INTERIOR	BLACK ROOF MATERIAL 6	
	8-A	Exterior Caulk NORTH SIDE	GREY CAULKING LG WINDOW	
	8-B	" " "	" "	
	9-A	EXTERIOR CAULK WEST SIDE	GREY CAULKING SM WINDOW	
	9-B	" " "	" " "	

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Please Reply To:

AmeriSci Richmond
13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

FACSIMILE TELECOPY TRANSMISSION

To:	Mark Stein Fisher Associates	**From:**	William M. Dunstan
		AmeriSci Job #:	115071145
Fax #:		**Subject:**	ELAP-PLM/TEM 5 day Results
		Client Project:	154034; 777 Northland; 777 Northland Ave, NY
Email:	MStein@FisherAssoc.com		

Date: Monday, July 06, 2015
Time: 15:03:20
Comments:

Number of Pages: 10 (including cover sheet)

CONFIDENTIALITY NOTICE: Unless otherwise indicated, the information contained in this communication is confidential information intended for use of the individual named above. If the reader of this communication is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is prohibited. If you have received this communication in error, please immediately notify the sender by telephone and return the original message to the above address via the US Postal Service at our expense. Preliminary data reported here will be verified before final report is issued. Samples are disposed of in 60 days or unless otherwise instructed by the protocol or special instructions in writing. Thank you.

AmeriSci Job #: **115071145**

Client Name: Fisher Associates

Table I
Summary of Bulk Asbestos Analysis Results

154034; 777 Northland; 777 Northland Ave, NY

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01	1-A	1	0.191	27.7	5.0	40.4	Chrysotile 26.9	NA
Location:	Interior On Floor; Roof Material							
02	1-B	1	0.235	96.8	1.0	2.3	NA/PS	NA
Location:	Interior On Floor; Roof Material							
03	1-C	1	0.220	90.8	1.9	7.3	NA/PS	NA
Location:	Interior On Floor; Roof Material							
04	1-D	1	0.237	85.0	3.0	12.0	NA/PS	NA
Location:	Interior On Floor; Roof Material							
05	2-A	2	0.280	89.9	1.6	6.6	Chrysotile 2.0	NA
Location:	Exterior On Ground; Roof Material							
06	2-B	2	0.279	60.8	17.8	21.4	NA/PS	NA
Location:	Exterior On Ground; Roof Material							
07	2-C	2	0.248	40.0	5.7	54.3	NA/PS	NA
Location:	Exterior On Ground; Roof Material							
08	4-A	4	0.442	12.3	77.3	10.4	NAD	Tremolite Trace
Location:	Window West Size; Window Glaze "Pink"							
09	4-B	4	0.530	9.8	73.1	17.0	NAD	Tremolite Trace
Location:	Window West Size; Window Glaze "Pink"							
10	5-A	5	0.249	28.9	6.9	60.9	Chrysotile <0.25	Chrysotile 3.2
Location:	Interior NW Corner; Grey 9x9 Tiles							
11	5-B	5	0.501	29.9	6.6	63.5	Chrysotile <0.25	NA/PS
Location:	Interior NW Corner; Grey 9x9 Tiles							
12	6-A	6	0.146	75.8	3.0	21.1	NAD	Chrysotile Trace
Location:	Interior NE Side; Grey/Brown Ceiling Tile							
13	6-B	6	0.301	87.2	3.0	9.7	NAD	Chrysotile Trace
Location:	Interior NE Side; Grey/Brown Ceiling Tile							
14	7-A	7	----	----	----	----	NAD	NA
Location:	Interior Wall/Ceiling; Grey Compressed							
15	7-B	7	----	----	----	----	NAD	NA
Location:	Interior Wall/Ceiling; Grey Compressed							
16	8-A	8	----	----	----	----	NAD	NA
Location:	Interior Eastside; White Joint Compound							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results
154034; 777 Northland; 777 Northland Ave, NY

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
17	8-B	8	----	----	----	----	NAD	NA
Location:	Interior Eastside; White Joint Compound							
18	9-A	9	----	----	----	----	NAD	NA
Location:	Basement Level; White Fluff Insulation							
19	9-B	9	----	----	----	----	NAD	NA
Location:	Basement Level; White Fluff Insulation							

Reviewed by: _____ Date Reviewed: _____ Analyzed By: Jean L. Mayes _____ Date Analyzed: 7/7/2015

Semi-Quantitative Analysis: NAD = no asbestos detected; NA = not analyzed; NA/PS = not analyzed due to positive stop; Trace = <1%;
PLM analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) or NY ELAP 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NY ELAP Lab # 10984);
TEM analysis by EPA 600/R-93/116 (not covered by NVLAP Bulk accreditation); or NY ELAP 198.4 for New York NOB samples (NY ELAP Lab # 10984);

** Warning Notes: Consider PLM fiber diameter limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris, soils or other heterogeneous materials for which a combination PLM/TEM evaluation is recommended; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only.

AmeriSci Richmond
13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

PLM Bulk Asbestos Report

Fisher Associates
Attn: Mark Stein
135 Calkins Road, Suite A

Rochester, NY 14623

Date Received 07/02/15 **AmeriSci Job #** 115071145
Date Examined 07/06/15 **P.O. #**
ELAP # 10984 **Page** 1 **of** 5
RE: 154034; 777 Northland; 777 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
1-A 1	115071145-01 **Location:** Interior On Floor; Roof Material	***Yes***	26.9 % (by NYS ELAP 198.6) by William M. Dunstan on 07/06/15

Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material
Asbestos Types: Chrysotile 26.9 %
Other Material: Non-fibrous 40.4 %
Comment: Heat Sensitive (organic): 27.7%; Acid Soluble (inorganic): 5.0%; Inert (Non-asbestos): 40.4%

1-B 1	115071145-02 **Location:** Interior On Floor; Roof Material	NA/PS

Analyst Description: Bulk Material
Asbestos Types:
Other Material:
Comment: Heat Sensitive (organic): 96.8%; Acid Soluble (inorganic): 1.0%; Inert (Non-asbestos): 2.3%

1-C 1	115071145-03 **Location:** Interior On Floor; Roof Material	NA/PS

Analyst Description: Bulk Material
Asbestos Types:
Other Material:
Comment: Heat Sensitive (organic): 90.8%; Acid Soluble (inorganic): 1.9%; Inert (Non-asbestos): 7.3%

1-D 1	115071145-04 **Location:** Interior On Floor; Roof Material	NA/PS

Analyst Description: Bulk Material
Asbestos Types:
Other Material:
Comment: Heat Sensitive (organic): 85.0%; Acid Soluble (inorganic): 3.0%; Inert (Non-asbestos): 12.0%

See Reporting notes on last page

PLM Bulk Asbestos Report

154034; 777 Northland; 777 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2-A	115071145-05	***Yes***	2 %
2	**Location:** Exterior On Ground; Roof Material		(by NYS ELAP 198.6) by William M. Dunstan on 07/06/15
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile 2.0 %			
Other Material: Non-fibrous 6.6 %			
Comment: Heat Sensitive (organic): 89.9%; Acid Soluble (inorganic): 1.6%; Inert (Non-asbestos): 6.6%			
2-B	115071145-06		NA/PS
2	**Location:** Exterior On Ground; Roof Material		
Analyst Description: Bulk Material			
Asbestos Types:			
Other Material:			
Comment: Heat Sensitive (organic): 60.8%; Acid Soluble (inorganic): 17.8%; Inert (Non-asbestos): 21.4%			
2-C	115071145-07		NA/PS
2	**Location:** Exterior On Ground; Roof Material		
Analyst Description: Bulk Material			
Asbestos Types:			
Other Material:			
Comment: Heat Sensitive (organic): 40.0%; Acid Soluble (inorganic): 5.7%; Inert (Non-asbestos): 54.3%			
4-A	115071145-08	***No***	NAD
4	**Location:** Window West Size; Window Glaze "Pink"		(by NYS ELAP 198.6) by William M. Dunstan on 07/06/15
Analyst Description: Pink, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 10.5 %			
Comment: Heat Sensitive (organic): 12.3%; Acid Soluble (inorganic): 77.3%; Inert (Non-asbestos): 10.5%			
4-B	115071145-09	***No***	NAD
4	**Location:** Window West Size; Window Glaze "Pink"		(by NYS ELAP 198.6) by William M. Dunstan on 07/06/15
Analyst Description: Pink, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 17.1 %			
Comment: Heat Sensitive (organic): 9.8%; Acid Soluble (inorganic): 73.1%; Inert (Non-asbestos): 17.1%			

See Reporting notes on last page

PLM Bulk Asbestos Report

154034; 777 Northland; 777 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
5-A	115071145-10	***Yes***	Trace (<0.25 % pc)
5	**Location:** Interior NW Corner; Grey 9x9 Tiles		(EPA 400 PC) by William M. Dunstan on 07/06/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile <0.25 % pc			
Other Material: Non-fibrous 64.1 %			
Comment: Heat Sensitive (organic): 28.9%; Acid Soluble (inorganic): 6.9%; Inert (Non-asbestos): 64.1%			
5-B	115071145-11	***Yes***	Trace (<0.25 % pc)
5	**Location:** Interior NW Corner; Grey 9x9 Tiles		(EPA 400 PC) by William M. Dunstan on 07/06/15
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile <0.25 % pc			
Other Material: Non-fibrous 63.5 %			
Comment: Heat Sensitive (organic): 29.9%; Acid Soluble (inorganic): 6.6%; Inert (Non-asbestos): 63.5%			
6-A	115071145-12	***No***	NAD
6	**Location:** Interior NE Side; Grey/Brown Ceiling Tile		(by NYS ELAP 198.6) by William M. Dunstan on 07/06/15
Analyst Description: White/Brown, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 21.2 %			
Comment: Heat Sensitive (organic): 75.8%; Acid Soluble (inorganic): 3.0%; Inert (Non-asbestos): 21.2%			
6-B	115071145-13	***No***	NAD
6	**Location:** Interior NE Side; Grey/Brown Ceiling Tile		(by NYS ELAP 198.6) by William M. Dunstan on 07/06/15
Analyst Description: White/Brown, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 9.8 %			
Comment: Heat Sensitive (organic): 87.2%; Acid Soluble (inorganic): 3.0%; Inert (Non-asbestos): 9.8%			
7-A	115071145-14	***No***	NAD
7	**Location:** Interior Wall/Ceiling; Grey Compressed		(by NYS ELAP 198.1) by William M. Dunstan on 07/06/15
Analyst Description: Gray, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 95 %, Non-fibrous 5 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

154034; 777 Northland; 777 Northland Ave, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
7-B 7	115071145-15 **Location:** Interior Wall/Ceiling; Grey Compressed	***No***	NAD (by NYS ELAP 198.1) by William M. Dunstan on 07/06/15
Analyst Description: Gray, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 95 %, Non-fibrous 5 %			
8-A 8	115071145-16 **Location:** Interior Eastside; White Joint Compound	***No***	NAD (by NYS ELAP 198.1) by William M. Dunstan on 07/06/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
8-B 8	115071145-17 **Location:** Interior Eastside; White Joint Compound	***No***	NAD (by NYS ELAP 198.1) by William M. Dunstan on 07/06/15
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
9-A 9	115071145-18 **Location:** Basement Level; White Fluff Insulation	***No***	NAD (by NYS ELAP 198.1) by William M. Dunstan on 07/06/15
Analyst Description: White, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 98 %, Non-fibrous 2 %			
9-B 9	115071145-19 **Location:** Basement Level; White Fluff Insulation	***No***	NAD (by NYS ELAP 198.1) by William M. Dunstan on 07/06/15
Analyst Description: Green, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 98 %, Non-fibrous 2 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

154034; 777 Northland; 777 Northland Ave, NY

Reporting Notes:

Analyzed by: William M. Dunstan William Dunstan Date 7/6/15

*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By:_____

115071145

Bulk Chain of Custody

AmeriSci Richmond
13635 Genito Road
Midlothian, VA 23112
Toll Free: (800) 476-5227
Phone: (804) 763-1200
Fax: (804) 763-1800

AmeriSci
www.amerisci.com

Relinquished By: _____ Date/Time: 6/25/15
Received By: _____ Date/Time: _____
Relinquished By: _____ Date/Time: _____
Received By: _____ Date/Time: _____

Company: Fisher Associates
Street Address: 135 Calkins Road
City: Rochester State: NY Zip: 14623
Phone: 585-334-1310 Fax: 585-334-1361
Cell: 585-353-4731 Fax:
E-mail mstein@fisherassoc.com Verbal Results: Y / N
Results to: Mark Stein

Project: 777 NORTHLAND
AmeriSci #:
Proj Mgr: MARK STEIN Proj #: 154034
Proj Address: 777 NORTHLAND AVE Proj State: NY
Analysis: __PLM; __ Positive Stop; __TEM; X NY ELAP PLM/TEM w/ NOB Prep.
ASTM Dust __ (Microvac) __ (Wipe); __ Qualitative; __ Other (describe in comments)
Turnaround Time: 5-DAY Material Type: X Bulk __ Dust __ Water
Sampled By: MTS Date Sampled: 6/24/15

Special Instructions or Comments:
STOP POSITIVE (READ ALL 1A-1D and 2A-2C)

Lab ID	Field ID	Location	Sample Description (dust area)	Homogenous Area
	1-A	INTERIOR ON FLOOR	ROOF MATERIAL 1	
	1-B	↓ ↓	↓ ↓ 2	
	1-C		3	
	1-D		4	
	2-A	EXTERIOR ON GROUND	ROOF MATERIAL 1	
	2-B	↓ ↓	↓ ↓ 2	
	2-C		3	
	~~2-D~~	~~—~~	~~—~~	
	4-A	WINDOWS WEST SIDE	WINDOW GLAZE "PINE"	
	4-B	" " "	" " "	
	5-A	INTERIOR NW CORNER	GREY 9x9 TILES	
	5-B	" " "	" " "	
	6-A	INTERIOR NE SIDE	GREY/BROWN CEILING TILE	
	6-B	" " "	" " "	
	7-A	INTERIOR WALL/CEILING	GREY COMPRESSED	
	7-B	" "	↓ ↓	
	~	~	~	

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BULK CHAIN OF CUSTODY

AMERISCI RICHMOND
13635 GENITO ROAD
MIDLOTHIAN, VA 23112
TOLL FREE: (800) 476-5227
PHONE: (804) 763-1200
FAX: (804) 763-1800

Company: Fisher Associates

Street Address: 135 Calkins Road

City: Rochester State: NY Zip: 14623

Phone: 585-334-1310 Fax: 585-334-1361

Cell: 585-353-4731 Fax:

E-mail mstein@fisherassoc.com Verbal Results: Y / N

Results to: Mark Stein J

Project: 777 NORTHLAND AMERISCI #:

Proj Mgr: MARK STEIN Proj #: 154034

Proj Address: 777 NORTHLAND AVE Proj State: NY

Analysis: __PLM; __Positive Stop; __TEM; X NY ELAP PLM/TEM w/ NOB Prep.

ASTM Dust __(Microvac) __(Wipe); __Qualitative; __Other (describe in comments)

Turnaround Time: 5-DAY Material Type: X Bulk __Dust __Water

Sampled By: MTS Date Sampled: 6/24/15

Special Instructions or Comments:

STOP POSITIVE

Lab ID	Field ID	Location	Sample Description (dust area)	Homogenous Area
	8-A	INTERIOR Eastside	WHITE JOINT COMPOUND	
	8-B	" "	" "	
	9-A	BASEMENT LEVEL	WHITE FLUFFY INSULATION	
	9-B	" "		

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PARADIGM

ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Fisher Associates

For Lab Project ID

152741

Referencing

631 Northland Ave

Prepared

Thursday, July 09, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152741

Client: **Fisher Associates**

Project Reference: 631 Northland Ave

Sample Identifier:	LBP-1, Structural Steel / Lite Green/Brown		
Lab Sample ID:	152741-01	**Date Sampled:**	6/26/2015
Matrix:	Paint	**Date Received:**	7/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	**0.194**	%		7/8/2015 17:03

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 7/7/2015
Data File: 070815b

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152741

Client: **Fisher Associates**

Project Reference: 631 Northland Ave

Sample Identifier:	LBP-2, Yellow Paint Catwalk/Stairs		
Lab Sample ID:	152741-02	**Date Sampled:**	6/26/2015
Matrix:	Paint	**Date Received:**	7/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	**3.08**	%		7/8/2015 17:14

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 7/7/2015
Data File: 070815b

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152741

Client: **Fisher Associates**

Project Reference: 631 Northland Ave

Sample Identifier:	LBP-3, Metal On Lg Furnace		
Lab Sample ID:	152741-03	**Date Sampled:**	6/26/2015
Matrix:	Paint	**Date Received:**	7/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	**0.0635**	%		7/8/2015 17:17

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 7/7/2015
Data File: 070815b

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152741

Client: **Fisher Associates**

Project Reference: 631 Northland Ave

Sample Identifier:	LBP-4, Brown Lockers		
Lab Sample ID:	152741-04	**Date Sampled:**	6/26/2015
Matrix:	Paint	**Date Received:**	7/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	**0.0864**	%		7/8/2015 17:20

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 7/7/2015
Data File: 070815b

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152741

Client: **Fisher Associates**

Project Reference: 631 Northland Ave

Sample Identifier:	LBP-5, Ceiling Paint White		
Lab Sample ID:	152741-05	**Date Sampled:**	6/26/2015
Matrix:	Paint	**Date Received:**	7/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	< 0.0123	%		7/8/2015 17:24

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 7/7/2015
Data File: 070815b

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152741

Client: **Fisher Associates**

Project Reference: 631 Northland Ave

Sample Identifier:	LBP-6, Partition Bathrooms		
Lab Sample ID:	152741-06	**Date Sampled:**	6/26/2015
Matrix:	Paint	**Date Received:**	7/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	< 0.0115	%		7/8/2015 17:27

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 7/7/2015
Data File: 070815b

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152741

Client: **Fisher Associates**

Project Reference: 631 Northland Ave

Sample Identifier:	LBP-7, Maroon Block Walls		
Lab Sample ID:	152741-07	**Date Sampled:**	6/26/2015
Matrix:	Paint	**Date Received:**	7/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	**0.0365**	%		7/8/2015 17:31

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 7/7/2015
Data File: 070815b

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152741

Client: **Fisher Associates**

Project Reference: 631 Northland Ave

Sample Identifier:	LBP-8, Blue Doors		
Lab Sample ID:	152741-08	**Date Sampled:**	6/26/2015
Matrix:	Paint	**Date Received:**	7/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	**1.96**	%		7/8/2015 17:34

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 7/7/2015
Data File: 070815b

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

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Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	FISHER ASSOCIATES	CLIENT:		152741
ADDRESS:	135 CACKINS ROAD	ADDRESS:		Quotation #:
CITY:	ROCHESTER STATE: NY ZIP: 14623	CITY: Same	STATE: ZIP:	Email:
PHONE:	334-1310	PHONE:		
ATTN:	MARK STEIN	ATTN:		

PROJECT REFERENCE

631 Northland Ave

Matrix Codes:

AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	LEAD	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	6/26/15	1230		X	LBP-1	pt	1	X	Structural Steel / Brown (Site Specific)	01
2	6/26/15			X	LBP-2	pt	1	X	Yellow Paint catwalk/stairs	02
3	6/26/15			X	LBP-3	pt	1	X	Metal on bg furnace	03
4	6/26/15			X	LBP-4	pt	1	X	Brown Lockers	04
5	6/26/15			X	LBP-5	pt	1	X	Ceiling paint white	05
6	6/26/15			X	LBP-6	pt	1	X	Partition Bathrooms	06
7	6/26/15			X	LBP-7	pt	1	X	Maroon block walls	07
8	6/26/15	1230		X	LBP-8	pt	1	X	Blue Doors	08
9										
10										

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	
Rush 2 day		Category B			
Rush 1 day					
Other please indicate:		Other please indicate:		Other EDD please indicate:	

Sampled By	MTS	6/26/15 1230 Date/Time	Total Cost:
Relinquished By		7/2/15 9:27 Date/Time	
Received By		7/6/15 08:27 Date/Time	P.I.F.
Received @ Lab By		7/6/15 10:58 Date/Time	

22°C 7/2/15 11:00

Chain of Custody Supplement

Client: Fisher Associates

Completed by: Glenn Pezzulo

Lab Project ID: 152741

Date: 7/6/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature			X
Comments	2.2°C		
Sufficient Sample Quantity	X		
Comments			

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Fisher Associates

For Lab Project ID

152742

Referencing

683 Northland Ave

Prepared

Friday, July 10, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152742

Client: **Fisher Associates**

Project Reference: 683 Northland Ave

Sample Identifier:	LBP-1, Steel Tan		
Lab Sample ID:	152742-01	**Date Sampled:**	6/26/2015
Matrix:	Paint	**Date Received:**	7/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	**0.0215**	%		7/8/2015 18:33

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 7/8/2015
Data File: 070815b

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152742

Client: **Fisher Associates**

Project Reference: 683 Northland Ave

Sample Identifier:	LBP-2, Plaster White		
Lab Sample ID:	152742-02	**Date Sampled:**	6/26/2015
Matrix:	Paint	**Date Received:**	7/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	**0.109**	%		7/8/2015 18:37

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 7/8/2015
Data File: 070815b

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152742

Client: **Fisher Associates**

Project Reference: 683 Northland Ave

Sample Identifier:	LBP-3, Catwalk Yellow / Stairs		
Lab Sample ID:	152742-03	**Date Sampled:**	6/26/2015
Matrix:	Paint	**Date Received:**	7/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	**18.2**	%		7/9/2015 10:40

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 7/8/2015
Data File: 070915a

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152742

Client: **Fisher Associates**

Project Reference: 683 Northland Ave

Sample Identifier:	LBP-4, Block Beige		
Lab Sample ID:	152742-04	**Date Sampled:**	6/26/2015
Matrix:	Paint	**Date Received:**	7/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	**0.223**	%		7/8/2015 18:43

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 7/8/2015
Data File: 070815b

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152742

Client: **Fisher Associates**

Project Reference: 683 Northland Ave

Sample Identifier:	LBP-6, Ceiling Paint		
Lab Sample ID:	152742-05	**Date Sampled:**	6/26/2015
Matrix:	Paint	**Date Received:**	7/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	**0.0218**	%		7/8/2015 18:46

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 7/8/2015
Data File: 070815b

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152742

Client: **Fisher Associates**

Project Reference: 683 Northland Ave

Sample Identifier:	LBP-8, HW Tank Blue		
Lab Sample ID:	152742-06	**Date Sampled:**	6/26/2015
Matrix:	Paint	**Date Received:**	7/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	**0.0256**	%		7/8/2015 18:49

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 7/8/2015
Data File: 070815b

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152742

Client: **Fisher Associates**

Project Reference: 683 Northland Ave

Sample Identifier:	LBP-9, Red Boiler Floor		
Lab Sample ID:	152742-07	**Date Sampled:**	6/26/2015
Matrix:	Paint	**Date Received:**	7/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	< 0.0136	%		7/8/2015 18:53

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 7/8/2015
Data File: 070815b

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152742

Client: **Fisher Associates**

Project Reference: 683 Northland Ave

Sample Identifier:	LBP-10, Green Lockers		
Lab Sample ID:	152742-08	**Date Sampled:**	6/26/2015
Matrix:	Paint	**Date Received:**	7/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	**1.14**	%		7/8/2015 19:03

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 7/8/2015
Data File: 070815b

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152742

Client: **Fisher Associates**

Project Reference: 683 Northland Ave

Sample Identifier:	LBP-11, White Pipes		
Lab Sample ID:	152742-09	**Date Sampled:**	6/26/2015
Matrix:	Paint	**Date Received:**	7/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	**3.15**	%		7/8/2015 19:06

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 7/8/2015
Data File: 070815b

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152742

Client: **Fisher Associates**

Project Reference: 683 Northland Ave

Sample Identifier:	LBP-12, Grey Boilers		
Lab Sample ID:	152742-10	**Date Sampled:**	6/26/2015
Matrix:	Paint	**Date Received:**	7/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	**0.155**	%		7/8/2015 19:09

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 7/8/2015
Data File: 070815b

Analytical Report Appendix

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All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

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Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(716) 647-2530 * (800) 724-1997

CHAIN OF CUSTODY

REPORT TO:

COMPANY: Fisher Associates, P.E., L.S., P.C.
ADDRESS: 135 Calkins Road
CITY: Rochester STATE: NY ZIP: 14534
PHONE: 585-334-1310 FAX: 585-334-1361
ATTN: Mark Stein
COMMENTS:

INVOICE TO:

COMPANY: Same as Report
ADDRESS:
CITY: STATE: ZIP:
PHONE: FAX:
ATTN:

LAB PROJECT #: 152742
CLIENT PROJECT #:

TURNAROUND TIME: (WORKING DAYS)
STD: [ ] 1 [ ] 2 [ ] 3 [X] 5 OTHER: [ ]

PROJECT NAME/SITE NAME: 683 Northland Ave

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	Lead	PCB	REMARKS	PARADIGM LAB SAMPLE NUMBER
6/26/15	1315			LBP-1	PT	1	X		Steel Fan	01
				LBP-2	PT	1	X		Plaster White	02
				LBP-3	PT	1	X		Catwalk yellow/fabric	03
				LBP-4	PT	1	X		Block Beige	04
				LBP-6	PT	1	X		Ceiling Paint	05
				LBP-8	PT	1	X		HW Tank Olive	06
				LBP-9	PT	1	X		Red Boiler floor	07
				LBP-10	PT	1	X		Green lockers	08
				LBP-11	PT	1	X		White pipes	09
6/26/15	1315			LBP-12	PT	1	X		Gray boilers	10

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation:
CONTAINER TYPE: [ ] PRESERVATIONS: [ ] HOLDING TIME: [ ] TEMPERATURE: [ ]
22°C 7/2/15 11:00

Sampled By: MTS Date/Time: 6/26/15 1315
Relinquished By: Date/Time: 7/2/15 09:27
Received By: Date/Time:

Relinquished By: Date/Time: 7/2/15
Received By: Date/Time:
Received @ Lab By: Date/Time: 7/6/15 11:15

Total Cost:
P.I.F.

Chain of Custody Supplement

Client: Fisher Associates Completed by: Glenn Pezzulo

Lab Project ID: 152742 Date: 7/6/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature			X
Comments	22°C		
Sufficient Sample Quantity	X		
Comments			

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Fisher Associates

For Lab Project ID

152743

Referencing

741 Northland

Prepared

Friday, July 10, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152743

Client: **Fisher Associates**

Project Reference: 741 Northland

Sample Identifier:	LBP-1, Brown Steel		
Lab Sample ID:	152743-01	**Date Sampled:**	6/26/2015
Matrix:	Paint	**Date Received:**	7/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	**10.1**	%		7/9/2015 10:32

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 7/7/2015
Data File: 070915a

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152743

Client: **Fisher Associates**

Project Reference: 741 Northland

Sample Identifier:	LBP-2, Green Front Entry		
Lab Sample ID:	152743-02	**Date Sampled:**	6/26/2015
Matrix:	Paint	**Date Received:**	7/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	**0.218**	%		7/8/2015 17:40

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 7/7/2015
Data File: 070815b

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152743

Client: **Fisher Associates**

Project Reference: 741 Northland

Sample Identifier:	LBP-3, Yellow Main Floor		
Lab Sample ID:	152743-03	**Date Sampled:**	6/26/2015
Matrix:	Paint	**Date Received:**	7/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	**0.716**	%		7/8/2015 17:43

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 7/7/2015
Data File: 070815b

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152743

Client: **Fisher Associates**

Project Reference: 741 Northland

Sample Identifier:	LBP-4, White Paint On Bricks		
Lab Sample ID:	152743-04	**Date Sampled:**	6/26/2015
Matrix:	Paint	**Date Received:**	7/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	< 0.0152	%		7/8/2015 17:53

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 7/7/2015
Data File: 070815b

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152743

Client: **Fisher Associates**

Project Reference: 741 Northland

Sample Identifier:	LBP-5, Green Back Office		
Lab Sample ID:	152743-05	**Date Sampled:**	6/26/2015
Matrix:	Paint	**Date Received:**	7/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	**0.00939**	%		7/8/2015 17:56

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 7/7/2015
Data File: 070815b

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PARADIGM ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY

REPORT TO:	INVOICE TO:	LAB PROJECT ID
CLIENT: FISHER ASSOCIATES	CLIENT: SAME	152743
ADDRESS: 185 CALKINS ROAD	ADDRESS:	Quotation #:
CITY: ROCHESTER STATE: NY ZIP: 14623	CITY: STATE: ZIP:	Email: mstein@fisherassoc.com
PHONE: 334-1310	PHONE:	
ATTN: MARK STEIN	ATTN:	

PROJECT REFERENCE

741 Northland

Matrix Codes:

AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	LEAD	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	6/26/15	1400		X	LBP - 1	PT	1	X	Brown Step 1	01
2	"	"		X	LBP - 2	PT	1	X	Green front entry	02
3	"	"		X	LBP - 3	PT	1	X	Yellow main floor	03
4	"	"		X	LBP - 4	PT	1	X	White paint on bricks	04
5	6/26/15	1400		X	LBP - 5	PT	1	X	Green Jackie office	05
6										
7										
8										
9										
10										

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	
Rush 2 day		Category B			
Rush 1 day					
Other please indicate:		Other please indicate:		Other EDD please indicate:	

MTS		6/26/15	Total Cost:
Sampled By		Date/Time	
		7/2/15	
Relinquished By		Date/Time	
		7/2/15, 09:27	P.I.F.
Received By		Date/Time	
		7/6/15 11:41	
Received @ Lab By		Date/Time	

22°C 7/2/15 11:00

Chain of Custody Supplement

Client: Fisher Associates Completed by: Glenn Pezzulo

Lab Project ID: 152743 Date: 7/6/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature			X
Comments	22°C		
Sufficient Sample Quantity	X		
Comments			

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC

Analytical Report For

Fisher Associates

For Lab Project ID

152744

Referencing

777 Northland

Prepared

Friday, July 10, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

K R Hansen

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152744

Client: **Fisher Associates**

Project Reference: 777 Northland

Sample Identifier:	LBP-1, Beams		
Lab Sample ID:	152744-01	**Date Sampled:**	6/26/2015
Matrix:	Paint	**Date Received:**	7/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	**7.16**	%		7/9/2015 10:36

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 7/7/2015
Data File: 070915a

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152744

Client: **Fisher Associates**

Project Reference: 777 Northland

Sample Identifier:	LBP-2, Furnace		
Lab Sample ID:	152744-02	**Date Sampled:**	6/26/2015
Matrix:	Paint	**Date Received:**	7/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	**0.0102**	%		7/8/2015 18:03

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 7/7/2015
Data File: 070815b

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

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Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
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"(1)" = Indicates data from primary column used for QC calculation.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

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Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	Fisher Associates	CLIENT:	SAME	152744
ADDRESS:	175 Calkins Road	ADDRESS:		Quotation #:
CITY:	Rochester STATE: NY ZIP: 14623	CITY: STATE: ZIP:		
PHONE:	334-1310	PHONE:		Email: mstein@fisherassoc.com
ATTN:	Mark Stein	ATTN:		

PROJECT REFERENCE

777 Northland

Matrix Codes:

AQ - Aqueous Liquid; **NQ** - Non-Aqueous Liquid; **WA** - Water; **WG** - Groundwater; **DW** - Drinking Water; **WW** - Wastewater; **SO** - Soil; **SL** - Sludge; **SD** - Solid; **PT** - Paint; **WP** - Wipe; **CK** - Caulk; **OL** - Oil; **AR** - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	LEAD	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	6/26/15	1430		X	LBP-1	PT	1	X	Beams	01
2	6/26/15	1430		X	LBP-2	PT	1	X	furnace	02
3										
4										
5										
6										
7										
8										
9										
10										

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	
Rush 2 day		Category B			
Rush 1 day					
Other please indicate:		Other please indicate:		Other EDD please indicate:	

MTS	6/26/15 1430	Total Cost:
Sampled By	Date/Time	
Relinquished By	7/2/15 9:27 Date/Time	
Received By	7/2/15, 09:27 Date/Time	P.I.F.
Received @ Lab By	7/6/15 11:47 Date/Time	

22°C 7/2/15 11:00

Chain of Custody Supplement

Client: Fisher Associates Completed by: Glenn Pezzulo

Lab Project ID: 152744 Date: 7/6/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature			X
Comments	22°C		
Sufficient Sample Quantity	X		
Comments			

PARADIGM

ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Fisher Associates

For Lab Project ID

152746

Referencing

631 Northland

Prepared

Monday, July 13, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152746

Client: **Fisher Associates**

Project Reference: 631 Northland

Sample Identifier: PCB-2
Lab Sample ID: 152746-01 **Date Sampled:** 6/25/2015
Matrix: Caulk **Date Received:** 7/6/2015

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 3.69	mg/Kg		7/8/2015 21:18
PCB-1221	< 3.69	mg/Kg		7/8/2015 21:18
PCB-1232	< 3.69	mg/Kg		7/8/2015 21:18
PCB-1242	< 3.69	mg/Kg		7/8/2015 21:18
PCB-1248	< 3.69	mg/Kg		7/8/2015 21:18
PCB-1254	< 3.69	mg/Kg		7/8/2015 21:18
PCB-1260	< 3.69	mg/Kg		7/8/2015 21:18
PCB-1262	< 3.69	mg/Kg		7/8/2015 21:18
PCB-1268	< 3.69	mg/Kg		7/8/2015 21:18

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**73.6**	30.5 - 159		7/8/2015 21:18
Tetrachloro-m-xylene	**112**	23.2 - 144		7/8/2015 21:18

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 7/8/2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152746

Client: **Fisher Associates**

Project Reference: 631 Northland

Sample Identifier: PCB-3
Lab Sample ID: 152746-02 **Date Sampled:** 6/25/2015
Matrix: Caulk **Date Received:** 7/6/2015

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 3.38	mg/Kg		7/10/2015 17:33
PCB-1221	< 3.38	mg/Kg		7/10/2015 17:33
PCB-1232	< 3.38	mg/Kg		7/10/2015 17:33
PCB-1242	< 3.38	mg/Kg		7/10/2015 17:33
PCB-1248	< 3.38	mg/Kg		7/10/2015 17:33
PCB-1254	< 3.38	mg/Kg		7/10/2015 17:33
PCB-1260	< 3.38	mg/Kg		7/10/2015 17:33
PCB-1262	< 3.38	mg/Kg		7/10/2015 17:33
PCB-1268	< 3.38	mg/Kg		7/10/2015 17:33

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**83.6**	30.5 - 159		7/10/2015 17:33
Tetrachloro-m-xylene	**68.1**	23.2 - 144		7/10/2015 17:33

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 7/8/2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152746

Client: **Fisher Associates**

Project Reference: 631 Northland

Sample Identifier: PCB-14
Lab Sample ID: 152746-03 **Date Sampled:** 6/25/2015
Matrix: Caulk **Date Received:** 7/6/2015

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 4.93	mg/Kg		7/10/2015 17:58
PCB-1221	< 4.93	mg/Kg		7/10/2015 17:58
PCB-1232	< 4.93	mg/Kg		7/10/2015 17:58
PCB-1242	< 4.93	mg/Kg		7/10/2015 17:58
PCB-1248	< 4.93	mg/Kg		7/10/2015 17:58
PCB-1254	< 4.93	mg/Kg		7/10/2015 17:58
PCB-1260	< 4.93	mg/Kg		7/10/2015 17:58
PCB-1262	< 4.93	mg/Kg		7/10/2015 17:58
PCB-1268	< 4.93	mg/Kg		7/10/2015 17:58

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**80.7**	30.5 - 159		7/10/2015 17:58
Tetrachloro-m-xylene	**63.2**	23.2 - 144		7/10/2015 17:58

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 7/8/2015

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(716) 647-2530 * (800) 724-1997

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:	
COMPANY:	Fisher Associates, P.E., L.S., P.C.	COMPANY:	Same as Report
ADDRESS:	135 Calkins Road	ADDRESS:	
CITY:	Rochester STATE: NY ZIP: 14534	CITY: STATE: ZIP:	
PHONE:	585-334-1310 FAX: 585-334-1361	PHONE: FAX:	
ATTN:	Mark Stein	ATTN:	

LAB PROJECT #: IS2746
CLIENT PROJECT #:

TURNAROUND TIME: (WORKING DAYS)
STD OTHER
☐ 1 ☐ 2 ☐ 3 ☒ 5 ☐

PROJECT NAME/SITE NAME: 631 NORTHLAND

COMMENTS: 631 NORTHLAND

Page 7 of 8

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	Lead	PCB	REMARKS	PARADIGM LAB SAMPLE NUMBER
6/25/15	1300		X	PCB-2	CK	1		X		01
6/25/15	1300		X	PCB-3	CK	1		X		02
				PCB-14	CK	1		X		03

LAB USE ONLY

RECEIPT CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: ☐ PRESERVATIONS: ☐ HOLDING TIME: ☐ TEMPERATURE: ☐ 21°C 7/2/15 11:09

Sampled By: MTS	Date/Time: 6/25/15	Relinquished By:	Date/Time:	Total Cost:	
Relinquished By:	Date/Time: 7/2/15	Received By:	Date/Time:		
Received By:	Date/Time: 7/2/15, 09:23	Received @ Lab By: DPZ	Date/Time: 7/6/15 12:15	P.I.F.	

Chain of Custody Supplement

Client: Fisher Associates Completed by: Glenn Perzulo

Lab Project ID: 152746 Date: 7/6/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature		X	
Comments	21°C		
Sufficient Sample Quantity			
Comments			

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Fisher Associates

For Lab Project ID

152745

Referencing

683 Northland

Prepared

Monday, July 13, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152745

Client: **Fisher Associates**

Project Reference: 683 Northland

Sample Identifier: PCB-40
Lab Sample ID: 152745-01 **Date Sampled:** 6/24/2015
Matrix: Caulk **Date Received:** 7/6/2015

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 4.63	mg/Kg		7/10/2015 04:50
PCB-1221	< 4.63	mg/Kg		7/10/2015 04:50
PCB-1232	< 4.63	mg/Kg		7/10/2015 04:50
PCB-1242	< 4.63	mg/Kg		7/10/2015 04:50
PCB-1248	< 4.63	mg/Kg		7/10/2015 04:50
PCB-1254	< 4.63	mg/Kg		7/10/2015 04:50
PCB-1260	< 4.63	mg/Kg		7/10/2015 04:50
PCB-1262	< 4.63	mg/Kg		7/10/2015 04:50
PCB-1268	< 4.63	mg/Kg		7/10/2015 04:50

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**76.7**	30.5 - 159		7/10/2015 04:50
Tetrachloro-m-xylene	**72.7**	23.2 - 144		7/10/2015 04:50

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 7/8/2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152745

Client: **Fisher Associates**

Project Reference: 683 Northland

Sample Identifier: PCB-50
Lab Sample ID: 152745-02 **Date Sampled:** 6/24/2015
Matrix: Caulk **Date Received:** 7/6/2015

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 5.05	mg/Kg		7/9/2015 01:34
PCB-1221	< 5.05	mg/Kg		7/9/2015 01:34
PCB-1232	< 5.05	mg/Kg		7/9/2015 01:34
PCB-1242	< 5.05	mg/Kg		7/9/2015 01:34
PCB-1248	< 5.05	mg/Kg		7/9/2015 01:34
PCB-1254	< 5.05	mg/Kg		7/9/2015 01:34
PCB-1260	< 5.05	mg/Kg		7/9/2015 01:34
PCB-1262	< 5.05	mg/Kg		7/9/2015 01:34
PCB-1268	< 5.05	mg/Kg		7/9/2015 01:34

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**84.7**	30.5 - 159		7/9/2015 01:34
Tetrachloro-m-xylene	**105**	23.2 - 144		7/9/2015 01:34

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 7/8/2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152745

Client: **Fisher Associates**

Project Reference: 683 Northland

Sample Identifier: PCB-51
Lab Sample ID: 152745-03 **Date Sampled:** 6/24/2015
Matrix: Caulk **Date Received:** 7/6/2015

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 9.26	mg/Kg		7/10/2015 05:14
PCB-1221	< 9.26	mg/Kg		7/10/2015 05:14
PCB-1232	< 9.26	mg/Kg		7/10/2015 05:14
PCB-1242	< 9.26	mg/Kg		7/10/2015 05:14
PCB-1248	< 9.26	mg/Kg		7/10/2015 05:14
PCB-1254	< 9.26	mg/Kg		7/10/2015 05:14
PCB-1260	< 9.26	mg/Kg		7/10/2015 05:14
PCB-1262	< 9.26	mg/Kg		7/10/2015 05:14
PCB-1268	< 9.26	mg/Kg		7/10/2015 05:14

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**55.8**	30.5 - 159		7/10/2015 05:14
Tetrachloro-m-xylene	**31.1**	23.2 - 144		7/10/2015 05:14

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 7/8/2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152745

Client: **Fisher Associates**

Project Reference: 683 Northland

Sample Identifier: PCB-52
Lab Sample ID: 152745-04 **Date Sampled:** 6/24/2015
Matrix: Caulk **Date Received:** 7/6/2015

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 5.88	mg/Kg		7/9/2015 01:57
PCB-1221	< 5.88	mg/Kg		7/9/2015 01:57
PCB-1232	< 5.88	mg/Kg		7/9/2015 01:57
PCB-1242	< 5.88	mg/Kg		7/9/2015 01:57
PCB-1248	< 5.88	mg/Kg		7/9/2015 01:57
PCB-1254	< 5.88	mg/Kg		7/9/2015 01:57
PCB-1260	< 5.88	mg/Kg		7/9/2015 01:57
PCB-1262	< 5.88	mg/Kg		7/9/2015 01:57
PCB-1268	< 5.88	mg/Kg		7/9/2015 01:57

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**83.9**	30.5 - 159		7/9/2015 01:57
Tetrachloro-m-xylene	**101**	23.2 - 144		7/9/2015 01:57

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 7/8/2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152745

Client: **Fisher Associates**

Project Reference: 683 Northland

Sample Identifier: PCB-57
Lab Sample ID: 152745-05 **Date Sampled:** 6/24/2015
Matrix: Caulk **Date Received:** 7/6/2015

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 3.51	mg/Kg		7/10/2015 16:43
PCB-1221	< 3.51	mg/Kg		7/10/2015 16:43
PCB-1232	< 3.51	mg/Kg		7/10/2015 16:43
PCB-1242	< 3.51	mg/Kg		7/10/2015 16:43
PCB-1248	< 3.51	mg/Kg		7/10/2015 16:43
PCB-1254	< 3.51	mg/Kg		7/10/2015 16:43
PCB-1260	< 3.51	mg/Kg		7/10/2015 16:43
PCB-1262	< 3.51	mg/Kg		7/10/2015 16:43
PCB-1268	< 3.51	mg/Kg		7/10/2015 16:43

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**56.7**	30.5 - 159		7/10/2015 16:43
Tetrachloro-m-xylene	**25.2**	23.2 - 144		7/10/2015 16:43

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 7/8/2015

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Monday, July 13, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152745

Client: **Fisher Associates**

Project Reference: 683 Northland

Sample Identifier: PCB-59
Lab Sample ID: 152745-06 **Date Sampled:** 6/24/2015
Matrix: Caulk **Date Received:** 7/6/2015

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 3.55	mg/Kg		7/10/2015 06:00
PCB-1221	< 3.55	mg/Kg		7/10/2015 06:00
PCB-1232	< 3.55	mg/Kg		7/10/2015 06:00
PCB-1242	< 3.55	mg/Kg		7/10/2015 06:00
PCB-1248	< 3.55	mg/Kg		7/10/2015 06:00
PCB-1254	< 3.55	mg/Kg		7/10/2015 06:00
PCB-1260	< 3.55	mg/Kg		7/10/2015 06:00
PCB-1262	< 3.55	mg/Kg		7/10/2015 06:00
PCB-1268	< 3.55	mg/Kg		7/10/2015 06:00

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**76.7**	30.5 - 159		7/10/2015 06:00
Tetrachloro-m-xylene	**74.3**	23.2 - 144		7/10/2015 06:00

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 7/8/2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152745

Client: **Fisher Associates**

Project Reference: 683 Northland

Sample Identifier: PCB-61
Lab Sample ID: 152745-07 **Date Sampled:** 6/24/2015
Matrix: Caulk **Date Received:** 7/6/2015

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 5.41	mg/Kg		7/10/2015 06:24
PCB-1221	< 5.41	mg/Kg		7/10/2015 06:24
PCB-1232	< 5.41	mg/Kg		7/10/2015 06:24
PCB-1242	< 5.41	mg/Kg		7/10/2015 06:24
PCB-1248	< 5.41	mg/Kg		7/10/2015 06:24
PCB-1254	< 5.41	mg/Kg		7/10/2015 06:24
PCB-1260	< 5.41	mg/Kg		7/10/2015 06:24
PCB-1262	< 5.41	mg/Kg		7/10/2015 06:24
PCB-1268	< 5.41	mg/Kg		7/10/2015 06:24

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**79.3**	30.5 - 159		7/10/2015 06:24
Tetrachloro-m-xylene	**73.3**	23.2 - 144		7/10/2015 06:24

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 7/8/2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152745

Client: **Fisher Associates**

Project Reference: 683 Northland

Sample Identifier: PCB-62
Lab Sample ID: 152745-08 **Date Sampled:** 6/24/2015
Matrix: Caulk **Date Received:** 7/6/2015

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 5.27	mg/Kg		7/10/2015 06:47
PCB-1221	< 5.27	mg/Kg		7/10/2015 06:47
PCB-1232	< 5.27	mg/Kg		7/10/2015 06:47
PCB-1242	< 5.27	mg/Kg		7/10/2015 06:47
PCB-1248	< 5.27	mg/Kg		7/10/2015 06:47
PCB-1254	< 5.27	mg/Kg		7/10/2015 06:47
PCB-1260	< 5.27	mg/Kg		7/10/2015 06:47
PCB-1262	< 5.27	mg/Kg		7/10/2015 06:47
PCB-1268	< 5.27	mg/Kg		7/10/2015 06:47

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**80.0**	30.5 - 159		7/10/2015 06:47
Tetrachloro-m-xylene	**69.3**	23.2 - 144		7/10/2015 06:47

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 7/8/2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152745

Client: **Fisher Associates**

Project Reference: 683 Northland

Sample Identifier: PCB-63
Lab Sample ID: 152745-09 **Date Sampled:** 6/24/2015
Matrix: Caulk **Date Received:** 7/6/2015

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 6.35	mg/Kg		7/9/2015 03:53
PCB-1221	< 6.35	mg/Kg		7/9/2015 03:53
PCB-1232	< 6.35	mg/Kg		7/9/2015 03:53
PCB-1242	< 6.35	mg/Kg		7/9/2015 03:53
PCB-1248	< 6.35	mg/Kg		7/9/2015 03:53
PCB-1254	< 6.35	mg/Kg		7/9/2015 03:53
PCB-1260	< 6.35	mg/Kg		7/9/2015 03:53
PCB-1262	< 6.35	mg/Kg		7/9/2015 03:53
PCB-1268	< 6.35	mg/Kg		7/9/2015 03:53

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**83.5**	30.5 - 159		7/9/2015 03:53
Tetrachloro-m-xylene	**106**	23.2 - 144		7/9/2015 03:53

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 7/8/2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152745

Client: **Fisher Associates**

Project Reference: 683 Northland

Sample Identifier: PCB-64
Lab Sample ID: 152745-10 **Date Sampled:** 6/24/2015
Matrix: Caulk **Date Received:** 7/6/2015

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 4.95	mg/Kg		7/10/2015 07:11
PCB-1221	< 4.95	mg/Kg		7/10/2015 07:11
PCB-1232	< 4.95	mg/Kg		7/10/2015 07:11
PCB-1242	< 4.95	mg/Kg		7/10/2015 07:11
PCB-1248	< 4.95	mg/Kg		7/10/2015 07:11
PCB-1254	< 4.95	mg/Kg		7/10/2015 07:11
PCB-1260	< 4.95	mg/Kg		7/10/2015 07:11
PCB-1262	< 4.95	mg/Kg		7/10/2015 07:11
PCB-1268	< 4.95	mg/Kg		7/10/2015 07:11

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**81.1**	30.5 - 159		7/10/2015 07:11
Tetrachloro-m-xylene	**74.8**	23.2 - 144		7/10/2015 07:11

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 7/8/2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152745

Client: **Fisher Associates**

Project Reference: 683 Northland

Sample Identifier: PCB-65
Lab Sample ID: 152745-11 **Date Sampled:** 6/24/2015
Matrix: Caulk **Date Received:** 7/6/2015

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 6.54	mg/Kg		7/10/2015 17:08
PCB-1221	< 6.54	mg/Kg		7/10/2015 17:08
PCB-1232	< 6.54	mg/Kg		7/10/2015 17:08
PCB-1242	< 6.54	mg/Kg		7/10/2015 17:08
PCB-1248	< 6.54	mg/Kg		7/10/2015 17:08
PCB-1254	< 6.54	mg/Kg		7/10/2015 17:08
PCB-1260	< 6.54	mg/Kg		7/10/2015 17:08
PCB-1262	< 6.54	mg/Kg		7/10/2015 17:08
PCB-1268	< 6.54	mg/Kg		7/10/2015 17:08

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**61.2**	30.5 - 159		7/10/2015 17:08
Tetrachloro-m-xylene	**37.6**	23.2 - 144		7/10/2015 17:08

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 7/8/2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152745

Client: **Fisher Associates**

Project Reference: 683 Northland

Sample Identifier: PCB-66
Lab Sample ID: 152745-12 **Date Sampled:** 6/24/2015
Matrix: Caulk **Date Received:** 7/6/2015

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 4.36	mg/Kg		7/10/2015 08:03
PCB-1221	< 4.36	mg/Kg		7/10/2015 08:03
PCB-1232	< 4.36	mg/Kg		7/10/2015 08:03
PCB-1242	< 4.36	mg/Kg		7/10/2015 08:03
PCB-1248	< 4.36	mg/Kg		7/10/2015 08:03
PCB-1254	< 4.36	mg/Kg		7/10/2015 08:03
PCB-1260	< 4.36	mg/Kg		7/10/2015 08:03
PCB-1262	< 4.36	mg/Kg		7/10/2015 08:03
PCB-1268	< 4.36	mg/Kg		7/10/2015 08:03

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**82.3**	30.5 - 159		7/10/2015 08:03
Tetrachloro-m-xylene	**75.4**	23.2 - 144		7/10/2015 08:03

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 7/8/2015

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

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Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(716) 647-2530 * (800) 724-1997

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:			
COMPANY:	Fisher Associates, P.E., L.S., P.C.	COMPANY:	Same as Report	LAB PROJECT #: 152745	CLIENT PROJECT #:
ADDRESS:	135 Calkins Road	ADDRESS:			
CITY:	Rochester STATE: NY ZIP: 14534	CITY:	STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS)	
PHONE:	585-334-1310 FAX: 585-334-1361	PHONE:	FAX:	STD / OTHER	
ATTN:	Mark Stein	ATTN:		1 2 3 X 5	
PROJECT NAME/SITE NAME:	683 NORTHLAND	COMMENTS:	683 NORTHLAND AVE		

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER OF CONTAINERS	Lead	PCB	REMARKS	PARADIGM LAB SAMPLE NUMBER
6/24/15	1130		X	PCB-40	CK	1		X		01
			X	PCB-50	CK	1		X		02
			X	PCB-51	CK	1		X		03
			X	PCB-52	CK	1		X		04
			X	PCB-57	CK	1		X		05
			X	PCB-59	CK	1		X		06
			X	PCB-61	CK	1		X		07
			X	PCB-62	CK	1		X		08
			X	PCB-63	CK	1		X		09
6/24/15	1130		X	PCB-64	CK	1		X		10

LAB USE ONLY

If discrepancies or note deviation: 21°C 7/2/15 11:08

Sampled By: MTS	Date/Time: 6/24/15	Relinquished By:	Date/Time:	Total Cost:
Relinquished By:	Date/Time: 7/2/15	Received By:	Date/Time:	
Received By:	Date/Time: 7/2/15, 09:23	Received @ Lab By:	Date/Time: 7/6/15 12:00	P.I.F.

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(716) 647-2530 * (800) 724-1997

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:	
COMPANY:	Fisher Associates, P.E., L.S., P.C.	COMPANY:	Same as Report
ADDRESS:	135 Calkins Road	ADDRESS:	
CITY:	Rochester STATE: NY ZIP: 14534	CITY: STATE: ZIP:	
PHONE:	585-334-1310 FAX: 585-334-1361	PHONE: FAX:	
ATTN:	Mark Stein	ATTN:	

LAB PROJECT #: 152745
CLIENT PROJECT #:

TURNAROUND TIME: (WORKING DAYS)
STD: [X] 5 OTHER: [ ] 1 [ ] 2 [ ] 3

PROJECT NAME/SITE NAME: 683 NORTHLAND

COMMENTS:

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER OF CONTAINERS	Lead	PCB	REMARKS	PARADIGM LAB SAMPLE NUMBER
6/24/15	1130		X	PCB-65	CK	1		X		1 1
6/24/15	1130		X	PCB-66	CK	1		X		1 2

LAB USE ONLY

Acceptable or not acceptable

Sampled By: MTS Date/Time: 6/24/15

Relinquished By: Date/Time: 7/2/15

Received By: Date/Time: 7/2/15, 09:23

Relinquished By: Date/Time:

Received By: Date/Time:

Received @ Lab By: Date/Time: 7/6/15 12:00

Total Cost:

P.I.F.

Chain of Custody Supplement

Client: Fisher Associates Completed by: Glenn Pezzullo

Lab Project ID: 152745 Date: 7/6/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature		X	
Comments	21°C		
Sufficient Sample Quantity			
Comments			

PARADIGM

ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Fisher Associates

For Lab Project ID

152747

Referencing

741 Northland

Prepared

Friday, July 10, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152747

Client: **Fisher Associates**

Project Reference: 741 Northland

Sample Identifier: PCB-8
Lab Sample ID: 152747-01 **Date Sampled:** 6/26/2015
Matrix: Caulk **Date Received:** 7/6/2015

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 5.10	mg/Kg		7/9/2015 00:25
PCB-1221	< 5.10	mg/Kg		7/9/2015 00:25
PCB-1232	< 5.10	mg/Kg		7/9/2015 00:25
PCB-1242	< 5.10	mg/Kg		7/9/2015 00:25
PCB-1248	< 5.10	mg/Kg		7/9/2015 00:25
PCB-1254	< 5.10	mg/Kg		7/9/2015 00:25
PCB-1260	< 5.10	mg/Kg		7/9/2015 00:25
PCB-1262	< 5.10	mg/Kg		7/9/2015 00:25
PCB-1268	< 5.10	mg/Kg		7/9/2015 00:25

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**81.3**	30.5 - 159		7/9/2015 00:25
Tetrachloro-m-xylene	**113**	23.2 - 144		7/9/2015 00:25

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 7/8/2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152747

Client: **Fisher Associates**

Project Reference: 741 Northland

Sample Identifier: PCB-9
Lab Sample ID: 152747-02 **Date Sampled:** 6/26/2015
Matrix: Caulk **Date Received:** 7/6/2015

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 5.34	mg/Kg		7/9/2015 00:48
PCB-1221	< 5.34	mg/Kg		7/9/2015 00:48
PCB-1232	< 5.34	mg/Kg		7/9/2015 00:48
PCB-1242	< 5.34	mg/Kg		7/9/2015 00:48
PCB-1248	< 5.34	mg/Kg		7/9/2015 00:48
PCB-1254	< 5.34	mg/Kg		7/9/2015 00:48
PCB-1260	< 5.34	mg/Kg		7/9/2015 00:48
PCB-1262	< 5.34	mg/Kg		7/9/2015 00:48
PCB-1268	< 5.34	mg/Kg		7/9/2015 00:48

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**83.0**	30.5 - 159		7/9/2015 00:48
Tetrachloro-m-xylene	**113**	23.2 - 144		7/9/2015 00:48

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 7/8/2015

Analytical Report Appendix

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"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
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LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(716) 647-2530 * (800) 724-1997

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:	
COMPANY:	Fisher Associates, P.E., L.S., P.C.	COMPANY:	Same as Report
ADDRESS:	135 Calkins Road	ADDRESS:	
CITY:	Rochester STATE: NY ZIP: 14534	CITY: STATE: ZIP:	
PHONE:	585-334-1310 FAX: 585-334-1361	PHONE: FAX:	
ATTN:	Mark Stein	ATTN:	

LAB PROJECT #: IS2747
CLIENT PROJECT #:

TURNAROUND TIME: (WORKING DAYS)
STD OTHER
[ ] 1 [ ] 2 [ ] 3 [X] 5 [ ]

PROJECT NAME/SITE NAME: 741-NORTHLAND

COMMENTS: 741 NORTHLAND

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER OF CONTAINERS	Lead	PCB	REMARKS	PARADIGM LAB SAMPLE NUMBER
6/26/15	1430		X	PCB-8	CK	1		X		01
6/26/15	1430		X	PCB-9	CK	1		X		02

LAB USE ONLY

If acceptable or note deviation:

21°C 7/2/15 11:08

Sampled By:	Date/Time:	Relinquished By:	Date/Time:	Total Cost:
MTS	6/26/15			
Relinquished By:	**Date/Time:**	**Received By:**	**Date/Time:**	
MTS	7/2/15			
Received By:	**Date/Time:**	**Received @ Lab By:**	**Date/Time:**	**P.I.F.**
	7/2/15, 09:23	SP2	7/6/15 12:19	

Chain of Custody Supplement

Client: Fisher Associates

Completed by: Glenn Pezzulo

Lab Project ID: 152747

Date: 7/6/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	*NELAC compliance with the sample condition requirements upon receipt* Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature		X	
Comments	21°C		
Sufficient Sample Quantity			
Comments			

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Fisher Associates

For Lab Project ID

152553

Referencing

Northland Ave

Prepared

Thursday, June 25, 2015

The enclosed reports reflect an analysis that has been subcontracted and are presented in their original form.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

AccuStar
Professional Radon Laboratory Services Since 1984

Radon in Air

NELAC NY 11769
NRPP 101193 AL
NRSB ARL0017
NY ELAP # 11769

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 1017, 1159
NRSB Device Code 10302

Laboratory Report for:

Paradigm Environmental Services, Inc.
179 Lake Avenue
Rochester NY 14608

Property Tested:

Northland Avenue Project
631 Northland Avenue
Buffalo NY 14208

Log Number	Device Number	Area Tested	Result (pCi/L)
1808105	502599	Depressed Floor	0.9
1808106	502603	Furnace Area	0.8

Radon test results are below the EPA action level of 4 pCi/L. No further action is required at this time. The EPA suggests that you may want to test again in the future to ensure that radon levels remain below the action level. If the property tested uses water from a private well, you may wish to consider testing for radon in water.

Comment: Devices placed in furnace areas do not comply with EPA 402-R-92-004 testing protocol. Confidential: Release results to client only. Paradigm Environmental Services, Inc. was e-mailed a copy of this report.

Distributed by: Paradigm Environmental Services, Inc.

Test Began:	06/19/2015	10:50 am	Date Received:	06/24/2015	Date Analyzed:	06/24/2015
Test Ended:	06/22/2015	9:30 am	Date Logged:	06/24/2015	Date Reported:	06/25/2015

Test Exposure Duration: 70.7 Hours

When any radon screening or long term testing result exceeds 20 pCi/L or 0.1 working level as defined in section 16.2(a)(145), the customer, if a resident of New York, is advised to contact the NYDoH, Bureau of Environmental Radiation Radiation Protection, for further technical advice and assistance. NY Radon Office (518) 402-7556 or (800) 458-1158; http://www.health.state.ny.us/environmental/radiological/radon

Report Reviewed By: M. Gray Report Approved By: Carolyn K. Allen

Carolyn K. Allen, President, AccuStar Labs

Disclaimer:

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AccuStar
Professional Radon Laboratory Services Since 1984

Radon in Air

NELAC NY 11769
NRPP 101193 AL
NRSB ARL0017
NY ELAP # 11769

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 1017, 1159
NRSB Device Code 10302

Laboratory Report for:

Paradigm Environmental Services, Inc.
179 Lake Avenue
Rochester NY 14608

Property Tested:

Northland Avenue Project
631 Northland Avenue
Buffalo NY 14208

Log Number	Device Number	Area Tested	Result (pCi/L)
1808102	502621	Center North Main Floor	< 0.4

Radon test results are below the EPA action level of 4 pCi/L. No further action is required at this time. The EPA suggests that you may want to test again in the future to ensure that radon levels remain below the action level. If the property tested uses water from a private well, you may wish to consider testing for radon in water.

Comment: Confidential: Release results to client only. Paradigm Environmental Services, Inc. was e-mailed a copy of this report.

Distributed by: Paradigm Environmental Services, Inc.

Test Began:	06/19/2015	11:00 am	Date Received:	06/24/2015	Date Analyzed:	06/24/2015
Test Ended:	06/22/2015	9:40 am	Date Logged:	06/24/2015	Date Reported:	06/25/2015

Test Exposure Duration: 70.7 Hours

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Report Reviewed By: M. Thayer Report Approved By: Carolyn K. Allen

Carolyn K. Allen, President, AccuStar Labs

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AccuStar
Professional Radon Laboratory Services Since 1984

Radon in Air

NELAC NY 11769
NRPP 101193 AL
NRSB ARL0017
NY ELAP # 11769

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 1017, 1159
NRSB Device Code 10302

Laboratory Report for:

Paradigm Environmental Services, Inc.
179 Lake Avenue
Rochester NY 14608

Property Tested:

Northland Avenue Project
683 Northland Avenue
Buffalo NY 14208

Log Number	Device Number	Area Tested	Result (pCi/L)
1808103	502604	Mens Locker Room	< 0.4

Radon test results are below the EPA action level of 4 pCi/L. No further action is required at this time. The EPA suggests that you may want to test again in the future to ensure that radon levels remain below the action level. If the property tested uses water from a private well, you may wish to consider testing for radon in water.

Comment: Confidential: Release results to client only. Paradigm Environmental Services, Inc. was e-mailed a copy of this report.

Distributed by: Paradigm Environmental Services, Inc.

Test Began:	06/19/2015	11:10 am	Date Received:	06/24/2015	Date Analyzed:	06/24/2015
Test Ended:	06/22/2015	9:45 am	Date Logged:	06/24/2015	Date Reported:	06/25/2015

Test Exposure Duration: 70.6 Hours

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Report Reviewed By: M. Gray Report Approved By: Carolyn K. Allen

Carolyn K. Allen, President, AccuStar Labs

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AccuStar
Professional Radon Laboratory Services Since 1984

Radon in Air

NELAC NY 11769
NRPP 101193 AL
NRSB ARL0017
NY ELAP # 11769

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 1017, 1159
NRSB Device Code 10302

Laboratory Report for:

Paradigm Environmental Services, Inc.
179 Lake Avenue
Rochester NY 14608

Property Tested:

Northland Avenue Property
683 Northland Avenue
Buffalo NY 14208

Log Number	Device Number	Area Tested	Result (pCi/L)
1808109	527917	Undreground Toilet Room	8.3

Radon test results are above the EPA action level of 4 pCi/L. The EPA recommends that action be taken to reduce radon levels if the result is 4 pCi/L or higher in a livable area. If the property tested uses water from a private well, you may wish to consider testing for radon in water.

Comment: Devices placed in bathroom areas do not comply with EPA 402-R-92-004 testing protocol. Confidential: Release results to client only. Paradigm Environmental Services, Inc. was e-mailed a copy of this report.

Distributed by: Paradigm Environmental Services, Inc.

Test Began:	06/19/2015 11:15 am	Date Received:	06/24/2015	Date Analyzed:	06/24/2015
Test Ended:	06/22/2015 9:30 am	Date Logged:	06/24/2015	Date Reported:	06/25/2015

Test Exposure Duration: 70.3 Hours

When any radon screening or long term testing result exceeds 20 pCi/L or 0.1 working level as defined in section 16.2(a)(145), the customer, if a resident of New York, is advised to contact the NYDoH, Bureau of Environmental Radiation Radiation Protection, for further technical advice and assistance. NY Radon Office (518) 402-7556 or (800) 458-1158; http://www.health.state.ny.us/environmental/radiological/radon

Report Reviewed By: M. Gray Report Approved By: Carolyn K. Allen

Carolyn K. Allen, President, AccuStar Labs

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AccuStar
Professional Radon Laboratory Services Since 1984

Radon in Air

NELAC NY 11769
NRPP 101193 AL
NRSB ARL0017
NY ELAP # 11769

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 1017, 1159
NRSB Device Code 10302

Laboratory Report for:

Paradigm Environmental Services, Inc.
179 Lake Avenue
Rochester NY 14608

Property Tested:

Northland Avenue Project
683 Northland Avenue
Buffalo NY 14208

Log Number	Device Number	Area Tested	Result (pCi/L)
1808107	527919	Middle of Warehouse 1927 era	< 0.4

Radon test results are below the EPA action level of 4 pCi/L. No further action is required at this time. The EPA suggests that you may want to test again in the future to ensure that radon levels remain below the action level. If the property tested uses water from a private well, you may wish to consider testing for radon in water.

Comment: Confidential: Release results to client only. Paradigm Environmental Services, Inc. was e-mailed a copy of this report.

Distributed by: Paradigm Environmental Services, Inc.

Test Began:	06/19/2015 11:20 am	Date Received:	06/24/2015	Date Analyzed:	06/24/2015
Test Ended:	06/22/2015 9:55 am	Date Logged:	06/24/2015	Date Reported:	06/25/2015

Test Exposure Duration: 70.6 Hours

When any radon screening or long term testing result exceeds 20 pCi/L or 0.1 working level as defined in section 16.2(a)(145), the customer, if a resident of New York, is advised to contact the NYDoH, Bureau of Environmental Radiation Radiation Protection, for further technical advice and assistance. NY Radon Office (518) 402-7556 or (800) 458-1158; http://www.health.state.ny.us/environmental/radiological/radon

Report Reviewed By: M. Thay Report Approved By: Carolyn K. Allen

Carolyn K. Allen, President, AccuStar Labs

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Professional Radon Laboratory Services Since 1984

Radon in Air

NELAC NY 11769
NRPP 101193 AL
NRSB ARL0017
NY ELAP # 11769

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 1017, 1159
NRSB Device Code 10302

Laboratory Report for:

Paradigm Environmental Services, Inc.
179 Lake Avenue
Rochester NY 14608

Property Tested:

Northland Avenue
683 Northland Avenue
Buffalo NY 14208

Log Number	Device Number	Area Tested	Result (pCi/L)
1808101	502605	Underground Pit 1981 Era	3.2

Radon test results are below the EPA action level of 4 pCi/L. No further action is required at this time. The EPA suggests that you may want to test again in the future to ensure that radon levels remain below the action level. If the property tested uses water from a private well, you may wish to consider testing for radon in water.

Comment: Confidential: Release results to client only. Paradigm Environmental Services, Inc. was e-mailed a copy of this report.

Distributed by: Paradigm Environmental Services, Inc.

Test Began:	06/19/2015 11:25 am	Date Received:	06/24/2015	Date Analyzed:	06/24/2015
Test Ended:	06/22/2015 10:00 am	Date Logged:	06/24/2015	Date Reported:	06/25/2015

Test Exposure Duration: 70.6 Hours

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Report Reviewed By: M. Gray Report Approved By: Carolyn K. Allen

Carolyn K. Allen, President, AccuStar Labs

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Professional Radon Laboratory Services Since 1984

Radon in Air

NELAC NY 11769
NRPP 101193 AL
NRSB ARL0017
NY ELAP # 11769

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 1017, 1159
NRSB Device Code 10302

Laboratory Report for:

Paradigm Environmental Services, Inc.
179 Lake Avenue
Rochester NY 14608

Property Tested:

Northland Avenue
741 Northland Avenue
Buffalo NY 14208

Log Number	Device Number	Area Tested	Result (pCi/L)
1808110	502606	Northeast Side R-8	Invalid

Comment: Unable to report a result due to excessive weight gain. Confidential: Release results to client only. Paradigm Environmental Services, Inc. was e-mailed a copy of this report.

We are sorry to report that your radon test is invalid. Conditions critical to an accurate reading were not met. The nature of the problem is described in the comment section above.

Distributed by: Paradigm Environmental Services, Inc.

Test Began:	06/19/2015 11:35 am	Date Received:	06/24/2015	Date Analyzed:	06/24/2015
Test Ended:	06/22/2015 10:15 am	Date Logged:	06/24/2015	Date Reported:	06/25/2015

Test Exposure Duration: 70.7 Hours

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Report Reviewed By: M. Thay Report Approved By: Carolyn K. Allen

Carolyn K. Allen, President, AccuStar Labs

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Professional Radon Laboratory Services Since 1984

Radon in Air

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Charcoal Canister
NRPP Device Code 1017, 1159
NRSB Device Code 10302

Laboratory Report for:

Paradigm Environmental Services, Inc.
179 Lake Avenue
Rochester NY 14608

Property Tested:

Northland Avenue Properties
741 Northland Avenue
Buffalo NY 14208

Log Number	Device Number	Area Tested	Result (pCi/L)
1808108	502612	Loading Dock Lower Level	Invalid

Comment: Unable to report a result due to excessive weight gain. Confidential: Release results to client only. Paradigm Environmental Services, Inc. was e-mailed a copy of this report.

We are sorry to report that your radon test is invalid. Conditions critical to an accurate reading were not met. The nature of the problem is described in the comment section above.

Distributed by: Paradigm Environmental Services, Inc.

Test Began:	06/19/2015 11:45 am	Date Received:	06/24/2015	Date Analyzed:	06/24/2015
Test Ended:	06/22/2015 10:20 am	Date Logged:	06/24/2015	Date Reported:	06/25/2015

Test Exposure Duration: 70.6 Hours

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Report Reviewed By: M. Gray Report Approved By: Carolyn K. Allen

Carolyn K. Allen, President, AccuStar Labs

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Radon in Air

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Laboratory Report for:

Paradigm Environmental Services, Inc.
179 Lake Avenue
Rochester NY 14608

Property Tested:

Northland Avenue Project
741 Northland Avenue
Buffalo NY 14208

Log Number	Device Number	Area Tested	Result (pCi/L)
1808104	527916	Southwest Side	Invalid

Comment: Unable to report a result due to excessive weight gain. Confidential: Release results to client only. Paradigm Environmental Services, Inc. was e-mailed a copy of this report.

We are sorry to report that your radon test is invalid. Conditions critical to an accurate reading were not met. The nature of the problem is described in the comment section above.

Distributed by: Paradigm Environmental Services, Inc.

Test Began:	06/19/2015	11:50 am	Date Received:	06/24/2015	Date Analyzed:	06/24/2015
Test Ended:	06/22/2015	10:25 am	Date Logged:	06/24/2015	Date Reported:	06/25/2015

Test Exposure Duration: 70.6 Hours

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Carolyn K. Allen, President, AccuStar Labs

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AccuStar
Radon Test Data Sheet

AccuStar Labs
11 Awl St.
P.O. Box 158
Medway, MA 02053 USA

Tel: 888-480-8812
Fax: 508-533-8831
24 Hour Test Results: 888-404-3144
www.accustarlabs.com

R-1

Send Written Report To:
(print clearly)

Name Mark Stein Fisher Associates

Address 135 Calkins Road

City Rochester State NY Zip 14623

E-mail mstein@fisherassoc.com
(print clearly)

Property Tested:

Name Northland Ave Project

Address 631 Northland Ave

City Buffalo State NY Zip 14208

County ERIE

Technician Name _____ Tech. Certification # _____ Tech. Signature (if required) _____

DETACH HERE AND RETURN WITH DEVICES

Required Device Information

1st Device Number 502599

Location:

☐ Basement ☐ First Floor

☐ Other: DEPRESSED FLOOR

2nd Device Number (If Purchased) _____

Location:

☐ Basement ☐ First Floor

☐ Other: _____

☐ Check here if devices were placed 4 inches apart.

Test Protocols & Structure Type

Were closed house conditions maintained? ☑ Yes ☐ No

Were foundation vents or any other permanent vents open? ☑ Yes ☐ No

Were test devices placed and retrieved by the same person? ☑ Yes ☐ No

Test Purpose: ☑ Initial Test ☐ Follow Up ☐ Post Mitigation ☐ Real Estate
(check all that apply)

Structure type: ☐ Basement ☐ Crawl Space
☐ Slab on Grade ☐ Other Various
(please specify)

Exposure Period & Indoor Conditions

Beginning Date: 06 / 19 / 15

Time: 10:50 AM/PM (please circle)

Ending Date: 06 / 22 / 15

Time: 9:30 AM/PM (please circle)

Temperature: ☐ Cold <65°F ☑ Normal ☐ Hot >75°F

Check one or record actual here _____

Humidity: ☐ Dry <25% rh ☑ Normal ☐ Humid >60% rh

Check one or record actual here _____

The test device must remain open for 48 hours.
Return this section with the test device to the laboratory.

REV 11/10

AccuStar
Radon Test Data Sheet

AccuStar Labs
11 Awl St.
P.O. Box 158
Medway, MA 02053 USA

Tel: 888-480-8812
Fax: 508-533-8831
24 Hour Test Results: 888-404-3144
www.accustarlabs.com

DETACH HERE AND RETURN WITH DEVICES

Send Written Report To:
(print clearly)

Name Mark Stein Fisher Associates

Address 135 Calking Ave
Suite A

City Rochester State NY Zip 14623

E-mail mstein@FisherAssoc.com
(print clearly)

Property Tested:

Name Northland Ave

Address 631 Northland Ave

City Buffalo State NY Zip 14208

County ERIE

Technician Name _____ Tech. Certification # _____ Tech. Signature (if required) _____

Required Device Information

1st Device Number 502603

Location:

☐ Basement ☐ First Floor

☒ Other: Furnace Area

2nd Device Number (If Purchased) _____

Location:

☐ Basement ☐ First Floor

☐ Other: _____

☐ Check here if devices were placed 4 inches apart.

Test Protocols & Structure Type

Were closed house conditions maintained? ☒Yes ☐No

Were foundation vents or any other permanent vents open? ☒Yes ☐No

Were test devices placed and retrieved by the same person? ☒Yes ☐No

Test Purpose: ☒Initial Test ☐Follow Up ☐Post Mitigation ☐Real Estate
(check all that apply)

Structure type: ☐Basement ☐Crawl Space
☐Slab on Grade ☒Other Various
(please specify)

Exposure Period & Indoor Conditions

Beginning Date: 06 / 19 / 15

Time: 10:55 AM/PM (please circle)

Ending Date: 06 / 22 / 15

Time: 09:35 AM/PM (please circle)

Temperature: ☐Cold <65°F ☒Normal ☐Hot >75°F

Check one or record actual here _____

Humidity: ☐Dry <25% rh ☒Normal ☐Humid >60% rh

Check one or record actual here _____

The test device must remain open for 48 hours.
Return this section with the test device to the laboratory.

REV 11/10

AccuStar
Radon Test Data Sheet

AccuStar Labs
11 Awl St.
P.O. Box 158
Medway, MA 02053 USA

Tel: 888-480-8812
Fax: 508-533-8831
24 Hour Test Results: 888-404-3144
www.accustarlabs.com

Send Written Report To:
(print clearly)

Name Mark Stein

Address 135 Calkins Rd

City Rochester State NY Zip 14623

E-mail msteinf@FisherAssoc.com
(print clearly)

Property Tested:

Name Northland Ave Project

Address 631 Northland Ave

City Buffalo State NY Zip 14208

County ERIE

Technician Name _____ Tech. Certification # _____ Tech. Signature (if required) _____

DETACH HERE AND RETURN WITH DEVICES

Required Device Information

1st Device Number R3 502621

Location:

☐ Basement ☐ First Floor

☒ Other: Center North MAIN Floor

2nd Device Number (If Purchased) _____

Location:

☐ Basement ☐ First Floor

☐ Other: ~~Center North End~~

☐ Check here if devices were placed 4 inches apart.

Test Protocols & Structure Type

Were closed house conditions maintained? ☒Yes ☐No

Were foundation vents or any other permanent vents open? ☒Yes ☐No

Were test devices placed and retrieved by the same person? ☒Yes ☐No

Test Purpose: ☒Initial Test ☐Follow Up ☐Post Mitigation ☐Real Estate
(check all that apply)

Structure type: ☐Basement ☐Crawl Space
☐Slab on Grade ☒Other Various
(please specify)

Exposure Period & Indoor Conditions

Beginning Date: 06 / 19 / 13

Time: ~~9:40~~ 11:00 AM/PM (please circle)

Ending Date: 06 / 22 / 13

Time: 09:40 AM/PM (please circle)

Temperature: ☐Cold <65°F ☒Normal ☐Hot >75°F

Check one or record actual here _____

Humidity: ☐Dry <25% rh ☒Normal ☐Humid >60% rh

Check one or record actual here _____

The test device must remain open for 48 hours.
Return this section with the test device to the laboratory.

REV 11/10

AccuStar
Radon Test Data Sheet

AccuStar Labs
11 Awl St.
P.O. Box 158
Medway, MA 02053 USA

Tel: 888-480-8812
Fax: 508-533-8831
24 Hour Test Results: 888-404-3144
www.accustarlabs.com

Send Written Report To:
(print clearly)

Name Mark Stein Fisher Associates

Address 135 Calkins Ave
Suite A

City Rochester State NY Zip 14623

E-mail mstein@FisherAssoc.com
(print clearly)

Property Tested:

Name Northland Ave Project

Address 6083 Northland Ave

City Buffalo State NY Zip 14208

County ERIE

Technician Name _____ Tech. Certification # _____ Tech. Signature (if required) _____

DETACH HERE AND RETURN WITH DEVICES

Required Device Information

1st Device Number 5026034 R-4

Location:

☐ Basement ☐ First Floor

☒ Other: MENS LOCKER ROOM

2nd Device Number (If Purchased) _____

Location:

☐ Basement ☐ First Floor

☐ Other: _____

☐ Check here if devices were placed 4 inches apart.

Exposure Period & Indoor Conditions

Beginning Date: 06 / 19 / 15

Time: 11:10 AM/PM (please circle)

Ending Date: 06 / 22 / 15

Time: 9:45 AM/PM (please circle)

Test Protocols & Structure Type

Were closed house conditions maintained? ☒Yes ☐No

Were foundation vents or any other permanent vents open? ☒Yes ☐No

Were test devices placed and retrieved by the same person? ☒Yes ☐No

Test Purpose: ☒Initial Test ☐Follow Up ☐Post Mitigation ☐Real Estate
(check all that apply)

Structure type: ☐Basement ☐Crawl Space
☐Slab on Grade ☒Other Various
(please specify)

Temperature: ☐Cold <65°F ☒Normal ☐Hot >75°F

Check one or record actual here _____

Humidity: ☐Dry <25% rh ☒Normal ☐Humid >60% rh

Check one or record actual here _____

The test device must remain open for 48 hours.
Return this section with the test device to the laboratory.

REV 11/10

AccuStar
Radon Test Data Sheet

AccuStar Labs
11 Awl St.
P.O. Box 158
Medway, MA 02053 USA

Tel: 888-480-8812
Fax: 508-533-8831
24 Hour Test Results: 888-404-3144
www.accustarlabs.com

Send Written Report To:
(print clearly)

Name MARK STEIN FISHER ASSOCIATES

Address 135 CALKINS ROAD

City ROCHESTER State NY Zip 14623

E-mail mstein@f.shergassoc.com
(print clearly)

Property Tested:
(print clearly)

Name NORTHLAND AVE PROPERTY

Address 683 NORTHLAND AVE

City BUFFALO State NY Zip 14208

County

Technician Name (if required) Tech. Certification # Tech. Signature (if required)

DETACH HERE AND RETURN WITH DEVICES

Required Device Information

1st Device Number R-5 527917

Location:

☐ Basement ☐ First Floor

☒ Other: UNDERGROUND TOILET ROOM

2nd Device Number (If Purchased)

Location:

☐ Basement ☐ First Floor

☐ Other:

☐ Check here if devices were placed 4 inches apart.

Exposure Period & Indoor Conditions

Beginning Date: 06 / 19 / 15

Time: 11:15 (AM)/PM (please circle)

Ending Date: 06 / 22 / 15

Time: 930 (AM)/PM (please circle)

Test Protocols & Structure Type

Were closed house conditions maintained? ☒Yes ☐No

Were foundation vents or any other permanent vents open? ☒Yes ☐No

Were test devices placed and retrieved by the same person? ☒Yes ☐No

Test Purpose: ☒Initial Test ☐Follow Up ☐Post Mitigation ☐Real Estate
(check all that apply)

Structure type: ☐Basement ☐Crawl Space
☐Slab on Grade ☒Other VARIOUS
(please specify)

Indoor Temperature:
☐Cold <65°F ☒Normal ☐Hot >75°F

Check one or record actual here

Indoor Humidity:
☐Dry <25% rh ☒Normal ☐Humid >60% rh

Check one or record actual here

The test device must remain open for 48 hours.
Return this section with the test device to the laboratory.

REV 06/11

AccuStar
Radon Test Data Sheet

AccuStar Labs
11 Awl St.
P.O. Box 158
Medway, MA 02053 USA

Tel: 888-480-8812
Fax: 508-533-8831
24 Hour Test Results: 888-404-3144
www.accustarlabs.com

Send Written Report To:
(print clearly)

Name Mark Stein Fisher Associates

Address 135 Calkins Road

City Rochester State NY Zip 14623

E-mail mstein@fisherassoc.com
(print clearly)

Property Tested:
(print clearly)

Name Northland Ave Project

Address 683 Northland Ave

City Buffalo State NY Zip 14208

County ERIE

Technician Name (if required) _____ Tech. Certification # _____ Tech. Signature (if required) _____

DETACH HERE AND RETURN WITH DEVICES

Required Device Information

1st Device Number 527919 R6

Location:

☐ Basement ☐ First Floor

☒ Other: Middle of Warehouse 1927 era

2nd Device Number (If Purchased) _____

Location:

☐ Basement ☐ First Floor

☐ Other: _____

☐ Check here if devices were placed 4 inches apart.

Exposure Period & Indoor Conditions

Beginning Date: 06 / 19 / 2015

Time: 11:20 AM/PM (please circle)

Ending Date: 06 / 22 / 2015

Time: 9:55 AM/PM (please circle)

Test Protocols & Structure Type

Were closed house conditions maintained? ☒Yes ☐No

Were foundation vents or any other permanent vents open? ☒Yes ☐No

Were test devices placed and retrieved by the same person? ☒Yes ☐No

Test Purpose: ☒Initial Test ☐Follow Up ☐Post Mitigation ☐Real Estate
(check all that apply)

Structure type: ☐Basement ☐Crawl Space
☐Slab on Grade ☒Other Various
(please specify)

Indoor Temperature: ☐Cold <65°F ☒Normal ☐Hot >75°F

Check one or record actual here _____

Indoor Humidity: ☐Dry <25% rh ☒Normal ☐Humid >60% rh

Check one or record actual here _____

The test device must remain open for 48 hours.
Return this section with the test device to the laboratory.

REV 06/11

AccuStar
Radon Test Data Sheet

AccuStar Labs
11 Awl St.
P.O. Box 158
Medway, MA 02053 USA

Tel: 888-480-8812
Fax: 508-533-8831
24 Hour Test Results: 888-404-3144
www.accustarlabs.com

DETACH HERE AND RETURN WITH DEVICES

Send Written Report To:
(print clearly)

Name Mark Stein Fisher Associates

Address 135 Calkins Road

City Rochester State NY Zip 14623

E-mail msteinfisherassoc.com
(print clearly)

Property Tested:

Name NORTHLAND AVE

Address 683 Northland Ave

City Buffalo State NY Zip 14208

County ERIE

Technician Name _____ Tech. Certification # _____ Tech. Signature (if required) _____

Required Device Information

1st Device Number R-7 502605

Location:

☐ Basement ☐ First Floor

☒ Other: Underground pit 1981 Era

2nd Device Number (If Purchased) _____

Location:

☐ Basement ☐ First Floor

☐ Other: _____

☐ Check here if devices were placed 4 inches apart.

Exposure Period & Indoor Conditions

Beginning Date: 06 / 19 / 15

Time: 11:25 (AM)/PM (please circle)

Ending Date: 06 / 22 / 15

Time: 10:00 (AM)/PM (please circle)

Temperature: ☐Cold <65°F ☒Normal ☐Hot >75°F

Check one or record actual here _____

Humidity: ☐Dry <25% rh ☒Normal ☐Humid >60% rh

Check one or record actual here _____

Test Protocols & Structure Type

Were closed house conditions maintained? ☒Yes ☐No

Were foundation vents or any other permanent vents open? ☒Yes ☐No

Were test devices placed and retrieved by the same person? ☒Yes ☐No

Test Purpose: ☒Initial Test ☐Follow Up ☐Post Mitigation ☐Real Estate
(check all that apply)

Structure type: ☐Basement ☐Crawl Space
☐Slab on Grade ☒Other Various
(please specify)

The test device must remain open for 48 hours.
Return this section with the test device to the laboratory.

REV 11/10

AccuStar
Radon Test Data Sheet

AccuStar Labs
11 Awl St.
P.O. Box 158
Medway, MA 02053 USA

Tel: 888-480-8812
Fax: 508-533-8831
24 Hour Test Results: 888-404-3144
www.accustarlabs.com

DETACH HERE AND RETURN WITH DEVICES

Send Written Report To:

(print clearly)

Name Mark Stein Fisher Associates

Address 135 Calkins Road

City Rochester State NY Zip 14623

E-mail mstein@fisherassoc.com
(print clearly)

Property Tested:

Name Northland Ave

Address 741 Northland Ave

City Buffalo State NY Zip 14208

County ERIE

Technician Name _____ Tech. Certification # _____ Tech. Signature (if required) _____

Required Device Information

1st Device Number 502606 R-8

Location:

☐ Basement ☐ First Floor

☒ Other: North East side

2nd Device Number (If Purchased) _____

Location:

☐ Basement ☐ First Floor

☐ Other: _____

☐ Check here if devices were placed 4 inches apart.

Exposure Period & Indoor Conditions

Beginning Date: 06 / 19 / 15

Time: 11:35 AM/PM (please circle)

Ending Date: 06 / 22 / 15

Time: 10:15 AM/PM (please circle)

Temperature: ☐ Cold <65°F ☒ Normal ☐ Hot >75°F

Check one or record actual here _____

Humidity: ☐ Dry <25% rh ☒ Normal ☐ Humid >60% rh

Check one or record actual here _____

Test Protocols & Structure Type

Were closed house conditions maintained? ☒ Yes ☐ No

Were foundation vents or any other permanent vents open? ☒ Yes ☐ No

Were test devices placed and retrieved by the same person? ☒ Yes ☐ No

Test Purpose: ☒ Initial Test ☐ Follow Up ☐ Post Mitigation ☐ Real Estate
(check all that apply)

Structure type: ☐ Basement ☐ Crawl Space
☐ Slab on Grade ☒ Other Various
(please specify)

The test device must remain open for 48 hours.
Return this section with the test device to the laboratory.

REV 11/10

AccuStar
Radon Test Data Sheet

AccuStar Labs
11 Awl St.
P.O. Box 158
Medway, MA 02053 USA

Tel: 888-480-8812
Fax: 508-533-8831
24 Hour Test Results: 888-404-3144
www.accustarlabs.com

Send Written Report To:
(print clearly)

Name Mark Stein Fisher Associates

Address 135 Calkins Road

City Rochester State NY Zip 14623

E-mail mstein@fisherassoc.com
(print clearly)

Property Tested:

Name Northland Ave Properties

Address 741 ~~Calkins~~ Northland Ave

City Buffalo State NY Zip 14208

County ERIE

Technician Name _____ Tech. Certification # _____ Tech. Signature (if required) _____

DETACH HERE AND RETURN WITH DEVICES

Required Device Information

1st Device Number 502612 R-9

Location:

☐ Basement ☐ First Floor

☒ Other: Loading Dock Lower Level

2nd Device Number (If Purchased) _____

Location:

☐ Basement ☐ First Floor

☐ Other: _____

☐ Check here if devices were placed 4 inches apart.

Test Protocols & Structure Type

Were closed house conditions maintained? ☒ Yes ☐ No

Were foundation vents or any other permanent vents open? ☒ Yes ☐ No

Were test devices placed and retrieved by the same person? ☒ Yes ☐ No

Test Purpose: ☒ Initial Test ☐ Follow Up ☐ Post Mitigation ☐ Real Estate
(check all that apply)

Structure type: ☐ Basement ☐ Crawl Space
☐ Slab on Grade ☒ Other Various
(please specify)

Exposure Period & Indoor Conditions

Beginning Date: 06 / 19 / 15

Time: 1145 AM/PM (please circle)

Ending Date: 06 / 22 / 15

Time: 1020 AM/PM (please circle)

Temperature: ☐ Cold <65°F ☒ Normal ☐ Hot >75°F

Check one or record actual here _____

Humidity: ☐ Dry <25% rh ☒ Normal ☐ Humid >60% rh

Check one or record actual here _____

The test device must remain open for 48 hours.
Return this section with the test device to the laboratory.

REV 11/10

AccuStar
Radon Test Data Sheet

AccuStar Labs
11 Awl St.
P.O. Box 158
Medway, MA 02053 USA

Tel: 888-480-8812
Fax: 508-533-8831
24 Hour Test Results: 888-404-3144
www.accustarlabs.com

Send Written Report To:
(print clearly)

Name Mark Stein Fisher Associates

Address 135 Calkins Road

City Rochester State NY Zip 14623

E-mail mstein@fisherassoc.com
(print clearly)

Property Tested:
(print clearly)

Name Northland Ave Project

Address 791 Northland Ave

City Buffalo State NY Zip 14208

County ERIE

Technician Name (if required) _____ Tech. Certification # _____ Tech. Signature (if required) _____

DETACH HERE AND RETURN WITH DEVICES

Required Device Information

1st Device Number 527916 R-10

Location:

☐ Basement ☐ First Floor

☒ Other: SW side

2nd Device Number (If Purchased) _____

Location:

☐ Basement ☐ First Floor

☐ Other: _____

☐ Check here if devices were placed 4 inches apart.

Exposure Period & Indoor Conditions

Beginning Date: 06 / 19 / 15

Time: 11:50 (AM)/PM (please circle)

Ending Date: 06 / 22 / 15

Time: 10:25 (AM)/PM (please circle)

Test Protocols & Structure Type

Were closed house conditions maintained? ☒Yes ☐No

Were foundation vents or any other permanent vents open? ☒Yes ☐No

Were test devices placed and retrieved by the same person? ☒Yes ☐No

Test Purpose: ☒Initial Test ☐Follow Up ☐Post Mitigation ☐Real Estate
(check all that apply)

Structure type: ☐Basement ☐Crawl Space
☐Slab on Grade ☒Other Various
(please specify)

Indoor Temperature:
☐Cold <65°F ☒Normal ☐Hot >75°F

Check one or record actual here _____

Indoor Humidity:
☐Dry <25% rh ☒Normal ☐Humid >60% rh

Check one or record actual here _____

The test device must remain open for 48 hours.
Return this section with the test device to the laboratory.

REV 06/11

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	FISHER ASSOCIATES	CLIENT:		152553
ADDRESS:	135 CALKINS RD	ADDRESS:	SAME	Quotation #:
CITY:	ROCHESTER STATE: NY ZIP: 14623	CITY: STATE: ZIP:		
PHONE:	334-1310	PHONE:		Email:
ATTN:	MARK STEIN	ATTN:		

PROJECT REFERENCE

Northland Ave

Matrix Codes:

AQ - Aqueous Liquid **NQ** - Non-Aqueous Liquid **WA** - Water **WG** - Groundwater **DW** - Drinking Water **WW** - Wastewater **SO** - Soil **SL** - Sludge **SD** - Solid **PT** - Paint **WP** - Wipe **CK** - Caulk **OL** - Oil **AR** - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	8260 BTEX	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	6/22/15	1020		X	R-1	RO	1	X		01
2				X	R-2		1	X		02
3				X	R-3		1	X		03
4				X	R-4		1	X		04
5				X	R-5		1	X		05
6				X	R-6		1	X		06
7				X	R-7		1	X		07
8				X	R-8		1	X		08
9				X	R-9		1	X		09
10				X	R-10	RO	1	X		10

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	
Rush 2 day		Category B			
Rush 1 day					
Other please indicate:		Other please indicate:		Other EDD please indicate:	

MTS — 6/22/15 10:30 — Sampled By / Date/Time

Relinquished By — 6/23/15 6:50am — Date/Time

Total Cost:

Received By — Date/Time

Received @ Lab By — 6/23/15 1344 — Date/Time

P.I.F.

Chain of Custody Supplement

Client: Fisher Assoc **Completed by:** Molly Vail

Lab Project ID: 152553 **Date:** 6/23/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature			X
Comments			
Sufficient Sample Quantity	X		
Comments			

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

APPENDIX F

ASBESTOS, LEAD AND PCB TABLES

Table F-1
Summary of Asbestos Samples Collected and Results
631 Northland

ASBESTOS 631 Northland -			
Material	**Sample Identification**	**Sample Location**	**% Asbestos**
White Window Glaze	1-A	Exterior	Trace Chrysotile
	1-B	Exterior	
White Expansion Joint	2-A	Exterior	Trace Chrysotile
	2-B	Exterior	
Grey Caulk	3-A	West Side Bay Doors	Trace Chrysotile Trace Actinolite
	3-B	West Side Bay Doors	
White Hard Insulation	**4-A**	**Exterior Furnace**	**2% Chrysotile**
	4-B	**Exterior Furnace**	
Fluffy White Insulation	5-A	Exterior Furnace	NAD
	5-B	Exterior Furnace	
White Pipe Insulation	**6-A**	**Interior Pipes**	**17.6% Chrysotile** **5.9% Amosite**
Grey Interior Window Glaze	7-A	Interior Windows	Trace Chrysotile Trace Tremolite Trace Anthophyllite
	7-B	Interior Windows	
Black Top Layer Ballast Tar	8-A	Roof	NAD
	8-B	Roof	
Black Tar Paper Top Layer	9-A	Roof	NAD
	9-B	Roof	
Black Tarpaper Bottom Layer	10-A	Roof	NAD
	10-B	Roof	
Black Bottom Layer Tar	11-A	Roof	Trace Chrysotile
	11-B	Roof	
Brown Cork Like Insulation	12-A	Roof	NAD
	12-B	Roof	
Black Flashing Cement	**13-A**	**Roof Entryway**	**2.3% Chrysotile**
	13-B	**Roof Equipment**	

ASBESTOS 631 Northland -			
Material	**Sample Identification**	**Sample Location**	**% Asbestos**
Grey Door Caulk	14-A	Roof Entry	NAD
	14-B	Roof Entry	
White Rope Gaskets	**15-A**	**Interior Furnace**	**36.4% Chrysotile**
Brown Quarry Tile	16-A	Bathroom	NAD
	16-B	Bathroom	
Grey Grout	17-A	Bathroom	NAD
	17-B	Bathroom	
Grey Set	18-A	Bathroom	NAD
	18-B	Bathroom	

NAD – No Asbestos Detected *Trace – Less than 1% Asbestos Detected*

Table F-2
Summary of Lead Samples Collected and Results
631 Northland

LEAD 631 Northland			
Material	**Sample Identification**	**Sample Location**	**Lead (% by Weight)**
Light Brown on Green Paint	LBP-1	Structural Steal	0.194%
Yellow Paint	**LBP-2**	**Catwalk / Stairs / Balusters**	**3.08%**
Grey Paint	LBP-3	Metal on Large Furnace	0.0635%
Brown Paint	LBP-4	Lockers	0.0864%
White Paint	LBP-5	Ceiling	<0.0123%
Light Brown Paint	LBP-6	Partitions	<0.0115%
Maroon Paint	LBP-7	Block Walls	0.0365%
Blue Paint	**LBP-8**	**Doors / Exterior Paint**	**1.96%**

Table F-3
Summary of PCB Samples Collected and Results
631 Northland

PCB 631 Northland			
Material	Sample Identification	Sample Location	PCBs (mg/Kg=ppm)
Window Glaze	PCB-2	Exterior	< 3.69
Expansion Caulk	PCB-3	Exterior	<3.38
Grey Door Caulking	PCB-14	Roof Entry	<4.93

*The **PCB** Sample Identification correlates to the **Asbestos** Sample Identification; (PCB-19) is the same material as asbestos samples (19-A and 19-B)*

Table F-4
Summary of Asbestos Quantities
631 Northland

ASBESTOS QUANTITIY 631 Northland		
Material	**Location**	**Estimated Quantity**
Furnace Insulation Hard	**Furnaces**	**500 SF**
Rope Gasket	**Furnaces**	**50 LF**
Pipe Insulation and Fittings	**Throughout Bldg**	**3000 LF**
Roof Flashing Cement	**Roof Equip and Doorway**	**200 SF**
Gaskets (ASSUMED)	**Throughout Bldg**	**100 + ea**

Table F-5
Summary of Asbestos Samples Collected and Results
683 Northland

683 Northland - ASBESTOS			
Material	**Sample Identification**	**Sample Location**	**% Asbestos**
Tan 12x12 Floor Tile	**1-A**	**4th Floor Offices**	**3.0% Chrysotile**
	1-B	**4th Floor Offices**	
Dark Brown 9x9 Floor Tile	**2-A**	**4th Floor Offices**	**1.4% Chrysotile**
	2-B	**4th Floor Offices**	
Black Mastic	3-A	4th Floor Offices	NAD
	3-B	4th Floor Offices	
White Base Coat Plaster	4-A	Office Area	NAD
	4-B	Office Area	
	4-C	Office Area	
	4-D	Office Area	
	4-E	Office Area	
	4-F	Office Area	
	4-G	Office Area	
Grey Base Coat Plaster	5-A	Office Area	NAD
	5-B	Office Area	
	5-C	Office Area	
	5-D	Office Area	
	5-E	Office Area	
	5-F	Office Area	
	5-G	Office Area	
Black Cove Base	6-A	Office Area	NAD
	6-B	Office Area	
Yellow Cove Base Mastic	7-A	Office Area	NAD
	7-B	Office Area	

683 Northland - ASBESTOS			
Material	**Sample Identification**	**Sample Location**	**% Asbestos**
Gypsum Ceiling Tile	8-A	Office Area	NAD
	8-B	Office Area	
Ceramic Floor / Wall Tile	9-A	Office 4th Floor Bathroom	NAD
	9-B	Office 4th Floor Bathroom	
White Wall Grout	10-A	Office 4th Floor Bathroom	NAD
	10-B	Office 4th Floor Bathroom	
Grey Wall Adhesive	11-A	Office 4th Floor Bathroom	NAD
	11-B	Office 4th Floor Bathroom	
Wall Thin Set	12-A	Office 4th Floor Bathroom	NAD
	12-B	Office 4th Floor Bathroom	
Floor Grout	13-A	Office 4th Floor Bathroom	NAD
	13-B	Office 4th Floor Bathroom	
Floor Tile Set	14-A	Office 4th Floor Bathroom	NAD
	14-B	Office 4th Floor Bathroom	
Red 9x9 Floor tile	**15-A**	**East Office 4th Floor**	**5.9% Chrysotile**
	15-B	**East Office 4th Floor**	
Dark Green 9x9 Floor Tiles	**16-A**	**East Office 4th Floor**	**5.6% Chrysotile**
	16-B	**East Office 4th Floor**	
Interior Window Glaze	17-A	Office Windows North	Trace Chrysotile
	17-B	Office Windows North	
Black Mastic 2	18-A	3rd Floor	Trace Chrysotile
	18-B	3rd Floor	
Mortar	19-A	Office Block Windows South	NAD
	19-B	Office Block Windows South	
Green 9x9 Floor Tile	**20-A**	**Office Area 2 ½ Floor**	**2.3% Chrysotile**
	20-B	**Office Area 2 ½ Floor**	
Tan 9x9 Floor Tile	**21-A**	**Office Area 2 ½ Floor**	**5.5% Chrysotile**
	21-B	**Office Area 2 ½ Floor**	

683 Northland - ASBESTOS			
Material	**Sample Identification**	**Sample Location**	**% Asbestos**
Brown Cove Base	22-A	Office Area 2 ½ Floor	NAD
	22-B	Office Area 2 ½ Floor	
Yellow Carpet Glue	23-A	2nd Floor Office	NAD
	23-B	2nd Floor Office	
Brown Quarry Tile	24-A	Main Floor Office Bldg	NAD
	24-B	Main Floor Office Bldg	
Grey Grout	25-A	Main Floor Office Bldg	NAD
	25-B	Main Floor Office Bldg	
Grey Set	26-A	Main Floor Office Bldg	NAD
	26-B	Main Floor Office Bldg	
White Drywall	27-A	Main Floor Office Bldg	NAD
	27-B	Main Floor Office Bldg	
White Joint Compound	28-A	Main Floor Office Bldg	NAD
	28-B	Main Floor Office Bldg	
Beige Drywall Tape	29-A	Main Floor Office Bldg	NAD
	29-B	Main Floor Office Bldg	
Ceiling Tile	30-A	Office Stairs	NAD
	30-B	Office Stairs	
Pipe Wrap on FG	31-A	Factory North Wall	NAD
	31-B	Factory North Wall	
Window Glaze/Caulk	**33-A**	**Interior Windows**	**6.1% Chrysotile**
	33-B	**Interior Windows**	
Window Caulk	**X-33-A**	**Interior Windows**	**4.5% Chrysotile**
	X-33-B	**Interior Windows**	
Tar on Wood Blocks	34-A	Factory Floor	NAD
	34-B	Factory Floor	
Fibrous Spray On Insulation	36-A	Walls and Ceiling in addition	NAD
	36-B	Walls and Ceiling in addition	
	36-C	Walls and Ceiling in addition	

683 Northland - ASBESTOS			
Material	**Sample Identification**	**Sample Location**	**% Asbestos**
Brick Like Insulation	37-A	Forge Area	NAD
	37-B	Forge Area	
Kiln Brick	38-A	Forge Area	NAD
	38-B	Forge Area	
Kiln Mortar	39-A	Forge Area	NAD
	39-B	Forge Area	
Kiln Top Insulation	X-39-A	Forge Area	NAD
	X-39-B	Forge Area	
Interior Caulk	40-A	1981 Era Garage Door Interior	NAD
	40-B	1981 Era Garage Door Interior	
Ceiling Tile	41-A	South End Office Pod	NAD
	41-B	South End Office Pod	
Boiler Wrap	45-A	Boiler Room	NAD
	45-B	Boiler Room	
Boiler Insulation	**46-A**	**Boiler Room**	**66.7% Chrysotile**
	46-B	**Boiler Room**	
Piping Attached to Boiler	47-A	Boiler Room	NAD
	47-B	Boiler Room	
	47-C	Boiler Room	
Pipe on West Wall	**48-A**	**Boiler Room**	**20.0% Chrysotile**
Overhead Piping	49-A	Boiler Room	NAD
	49-B	Boiler Room	
	49-C	Boiler Room	
Window Caulk	**50-A**	**Exterior Front**	**3.3% Chrysotile**
	50-B	**Exterior Front**	
Window Glaze	51-A	Exterior Front	NAD
	51-B	Exterior Front	

683 Northland - ASBESTOS			
Material	**Sample Identification**	**Sample Location**	**% Asbestos**
Window Glaze	X-51-A	Exterior Front	NAD
	X-51-B	Exterior Front	
Window Caulk	**52-A**	**Exterior Front**	**2.7% Chrysotile**
	52-B	**Exterior Front**	
Window glaze	53-A	Exterior Front	Trace Chrysotile
	53-B	Exterior Front	
Pardge Coat	56-A	Exterior Front	NAD
	56-B	Exterior Front	
White/Grey Caulk	57-A	West Side Garage Doors	Trace Chrysotile
	57-B	West Side Garage Doors	
White Door Caulk	58-A	West Side Entry 1910	Trace Anthophyllite
	58-B	West Side Entry 1910	
Grey Caulk	59-A	West Side Expansion / Control Joints	NAD
	59-B	West Side Expansion / Control Joints	
Window Glaze	**60-A**	**1927 Windows**	**1.6% Chrysotile**
	60-B	**1927 Windows**	
Window Caulk	61-A	1927 Windows	NAD
	61-B	1927 Windows	
Window Glaze	62-A	1964 Windows	Trace Anthophyllite
	62-B	1964 Windows	
Window Putty	**63-A**	**1964 Windows**	**3.2% Chrysotile**
	63-B	**1964 Windows**	
Grey Caulk	64-A	South Side Expansion Joint	NAD
	64-B	South Side Expansion Joint	
Grey Caulk	65-A	Exterior Bay Garage South	NAD
	65-B	Exterior Bay Garage South	
White Glaze/Caulk	**66-A**	**Exterior Bay Garage South**	**1.8% Chrysotile**
	66-B	**Exterior Bay Garage South**	

NAD – No Asbestos Detected *Trace – Less than 1% Asbestos Detected*

Table F-6
Summary of Lead Samples Collected and Results
683 Northland

LEAD 683 Northland			
Material	**Sample Identification**	**Sample Location**	**Lead (% by Weight)**
Tan Paint	LBP-1	Steal Columns	0.0215
White Paint – 1	LBP-2	Plaster walls/ceilings	0.109
Yellow Paint	**LBP-3**	**Catwalk, Stairs, Railings, Ect**	**18.2**
Beige Paint	LBP-4	Block Walls	0.223
White Paint – 2	LBP-6	Ceiling	0.0218
Blue Paint	LBP-8	HW Water Tank	0.0256
Red Paint	LBP-9	Boiler Room Floor	< 0.0136
Green Lockers	**LBP-10**	**Lockers**	**1.14**
White-3	**LBP-11**	**Painted Pipes**	**3.15**
Grey Paint	LBP-12	On Boilers	0.155

Table F-7
Summary of PCB Samples Collected and Results
683 Northland

PCB 683 Northland			
Material	Sample Identification	Sample Location	PCBs (mg/Kg=ppm)
Interior Caulk	PCB-40	1981 Era Garage Door	< 4.63
Window Caulk	PCB-50	Exterior Front of Building	< 5.05
Window glaze	PCB-51	Exterior Front of Building	< 9.26
Window Caulk	PCB-52	Exterior Front of Building	< 5.88
Caulk	PCB-57	Westside Garage Doors	< 3.51
Expansion Caulk	PCB-59	Control/Expansion Joint Westside	< 3.55
Window Caulk	PCB-61	1927 Windows	< 5.41
Window glaze	PCB-62	1964 Windows	< 5.27
Window Putty	PCB-63	1964 Windows	< 6.35
Grey Caulk	PCB-64	Southside Expansion Joint	< 4.95
Grey Caulk	PCB-65	Exterior FG Windows	< 6.54
Caulk/Glaze	PCB-66	Bay Garage South	< 4.36

*The **PCB** Sample Identification correlates to the **Asbestos** Sample Identification; (PCB-19) is the same material as asbestos samples (19-A and 19-B)*

Table F-8
Summary of Asbestos Quantities
683 Northland

ASBESTOS QUANTITIY 683 Northland		
Material	**Location**	**Estimated Quantity**
Floor Tile	**Office areas 2-4 Floors**	**50,000**
Window Glaze/Caulk	**Entire Building**	**10,000 + LF**
Boiler Insulation	**Boiler Room**	**750 SF**
Piping in Boiler	**Boiler Room**	**500 LF**
Gaskets (ASSUMED)	**Throughout Bldg**	**100 + ea**
Roofing ASSUMED)	**Roof**	**180,000 SF**
Piping Behind Walls /Ceiling ASSUMED	**Throughout**	**2500 LF**

Table F-9
Summary of Asbestos Samples Collected and Results
741 Northland

ASBESTOS 741 Northland			
Material	**Sample Identification**	**Sample Location**	**% Asbestos**
Grey Transite Panels	**1-A**	**Exterior**	**16% Chrysotile**
White Steam Line Pipe Insulation	**2-A**	**Interior**	**14.8% Chrysotile**
	2-B	**Interior**	
Roofing Materials	**3-A**	**Northside Interior on Floor Under Roof Collapse**	**10% Chrysotile**
	3-B		
	3-C		
Tan 12x12 Floor Tile	4-A	Warehouse Area	Trace Chrysotile
	4-B		
Grey 9x9 Floor Tile	**5-A**	**North Entryway**	**7.7% Chrysotile**
	5-B		
Grey Window Glaze	**6-A**	**North End Windows**	**1.1% Chrysotile**
	6-B		
Roofing Material	**7-A**	**Interior Southside**	**1.2% Roofing**
	7-B		
	7-C		
Roofing Material	**7-D**	**Interior Southside on Floor Under Roof Collapse**	**5.6% Roofing**
	7-E		
	7-F		
Grey Caulk on Large Window	**8-A**	**Exterior Large Windows**	**12.3% Chrysotile**
	8-B		
Grey Caulk on Small Window	**9-A**	**Exterior Small Windows**	**12.9% Chrysotile**
	9-B		

NAD – No Asbestos Detected *Trace – Less than 1% Asbestos Detected*

Table F-10
Summary of Lead Samples Collected and Results
741 Northland

LEAD 741 Northland			
Material	**Sample Identification**	**Sample Location**	**Lead (% by Weight)**
Brown Paint	**LBP-1**	**Structural Steal**	**10.1%**
Green Paint-1	LBP-2	Front Entry	0.218%
Yellow Paint	**LBP-3**	**Stairs / Railings / Ect**	**0.716%**
White Paint	LBP-4	Paint on Brick Walls	< 0.015
Green Paint-2	LBP-5	Back Offices	0.009

Table F-11
Summary of PCB Samples Collected and Results
741 Northland

PCB 741 Northland			
Material	Sample Identification	Sample Location	PCBs (mg/Kg=ppm)
Caulk	PCB-8	Exterior	< 5.10
Caulk	PCB-9	Exterior	<5.34

*The **PCB** Sample Identification correlates to the **Asbestos** Sample Identification; (PCB-19) is the same material as asbestos samples (19-A and 19-B)*

Table F-12
Summary of Asbestos Quantities
741 Northland

ASBESTOS QUANTITIY 741 Northland		
Material	**Location**	**Estimated Quantity**
Roofing	**Roof**	**9500 SF**
Transite	**Exterior**	**75,000**
Floor Tiles	**Storage Room**	**2500 SF**
Pipe Insulation	**Throughout Bldg**	**350 LF**
Gaskets (ASSUMED)	**Throughout Bldg**	**100 + ea**
Exterior Glazing/Caulk (ASSUMED)	**Exterior**	**4000 LF**

Table F-13
Summary of Asbestos Samples Collected and Results
777 Northland

ASBESTOS 777 Northland			
Material	**Sample Identification**	**Sample Location**	**% Asbestos**
Roofing Material	**1-A**	**Interior on Floor Below Roof Collapse**	**26.9% Chrysotile**
	1-B		
	1-C		
	1-D		
Roofing Material	**2-A**	**Exterior on Ground**	**2.0% Chrysotile**
	2-B		
	2-C		
Window Glaze	**4-A**	**Interior West Side Windows**	**Trace Tremolite**
	4-B		
Grey 9x9 Floor tile	**5-A**	**NW Corner**	**3.2% Chrysotile**
	5-B		
Grey/Brown Ceiling Tile	6-A	NE Offices	Trace Chrysotile
	6-B		
Wall/Ceiling Compress Board	7-A	NE Offices	NAD
	7-B		

ASBESTOS 777 Northland			
Material	**Sample Identification**	**Sample Location**	**% Asbestos**
White Joint Compound	8-A	Eastside Offices	NAD
	8-B		
White Fluffy Insulation	9-A	Basement Furnace	NAD
	9-B		

NAD – No Asbestos Detected *Trace – Less than 1% Asbestos Detected*

Table F-14
Summary of Lead Samples Collected and Results
777 Northland

LEAD 777 Northland			
Material	**Sample Identification**	**Sample Location**	**Lead (% by Weight)**
Brown Paint	**LBP-1**	**Structural Steal**	**7.16%**
Grey Paint	LBP-2	Furnace	0.010%

Table F-15
Summary of Asbestos Quantities
777 Northland

ASBESTOS QUANTITIY 777 Northland		
Material	**Location**	**Estimated Quantity**
Roofing	**Roof**	**40,000 SF**
Floor Tile	**North West Area**	**750 SF**
Furnace Insulation (ASSUMED)	**Basement**	**1000 SF**
Gaskets (ASSUMED)	**Throughout**	**100 + ea**
Exterior Glazing/Caulk (ASSUMED)	**Exterior**	**5000 LF**

APPENDIX G

PHOTO LOGS

Representative Photos – Building A

Northland Ave, Buffalo, NY **July 10, 2015**



Photo Location No. 1 – Building A - Leftover Paint/Chemical Containers



Photo Location No. 2 – Building A - Leftover Paint/Chemical Containers

Representative Photos – Building A

Northland Ave, Buffalo, NY **July 10, 2015**



Photo Location No. 3 – Building A - Leftover Paint/Chemical Containers



Photo Location No.4 – Building A - Leftover Paint/Chemical Containers

Representative Photos – Building A

Northland Ave, Buffalo, NY **July 10, 2015**



Photo Location No. 5 – Leftover Paint/Chemical Containers



Photo Location No. 6 – ASB – Sump Basement



Photo Location No. 7 – AS2 – Waste Oil Tank Basement Secondary Containment Floor

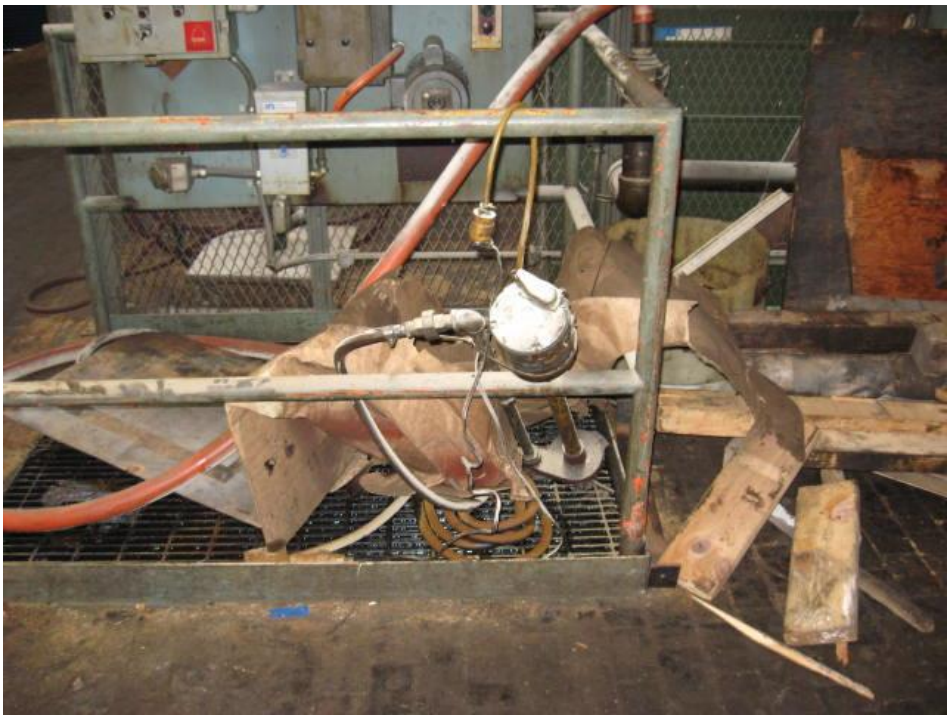


Photo Location No. 8 – AWLTF – Waste Liquid Transfer Containment Floor Pad

Representative Photos – Building A

Northland Ave, Buffalo, NY **July 10, 2015**



Photo Location No. 9 – Transformers Certified

Representative Photos – Building C

Northland Ave, Buffalo, NY **July 10, 2015**



Photo Location No. 1 – Building C - Leftover Chemical Containers

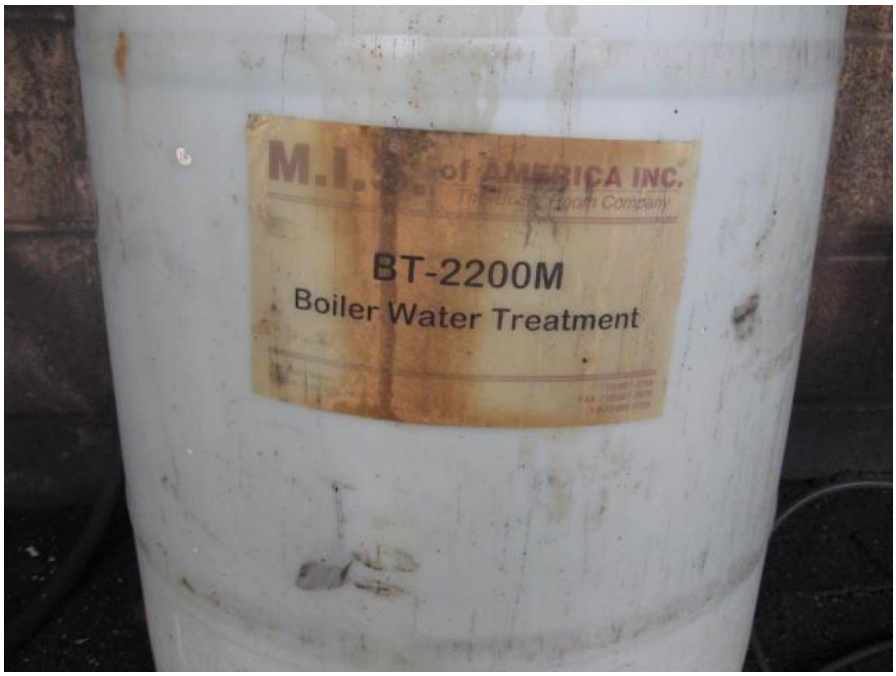


Photo Location No. 2 – Building C - Leftover Chemical BT-2200M Boiler Water Treatment Drum (1/2 full)

Representative Photos – Building C

Northland Ave, Buffalo, NY **July 10, 2015**



Photo Location No. 3 – Building C – Superior Lubricants – Floor Cleaner



Photo Location No.4 – Building C - Superior Lubricants – Floor Cleaner (¾ full)

Representative Photos – Building C

Northland Ave, Buffalo, NY **July 10, 2015**



Photo Location No. 5 – Wood Block looking South within Building C



Photo Location No. 6 – Sand in floor within Building C

Representative Photos – Building D

Northland Ave, Buffalo, NY **July 10, 2015**



Photo Location No. 1 – Building D – DP2 Sampling Location



Photo Location No. 2 – Building D - Leftover Paint/Chemical Containers

Representative Photos – Building D

Northland Ave, Buffalo, NY **July 10, 2015**



Photo Location No. 3 – Building D - Leftover Paint/Chemical Containers

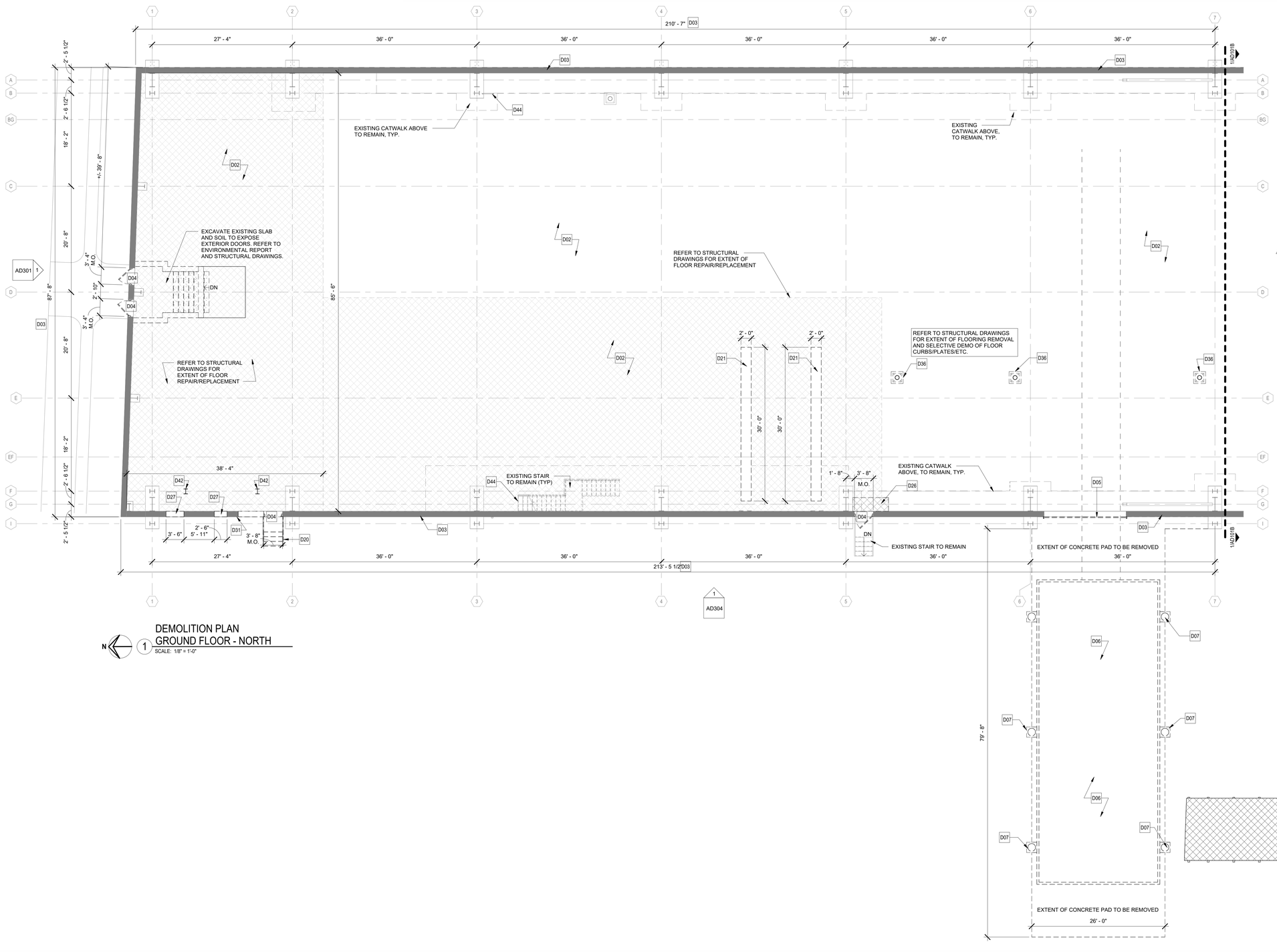


Photo Location No.4 – Building D - Leftover Paint/Chemical Containers

GENERAL DEMOLITION NOTES:

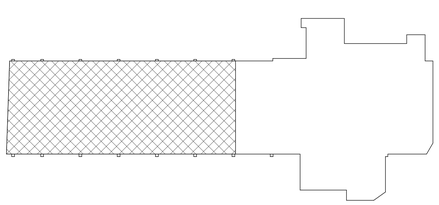
* REVIEW ENVIRONMENTAL REPORT AND DRAWINGS PRIOR TO ANY DEMOLITION AS THE BUILDING CONTAINS ASBESTOS, LEAD, AND PCB'S

1. REMOVE ALL EXTERIOR LIGHT WALL PACKS, LOUDSPEAKERS, AND SIGNAGE.
2. ALL INTERIOR & EXTERIOR MECHANICAL SYSTEMS SHALL BE REMOVED, INCLUDING BUT NOT LIMITED TO AIR HANDLERS, DUCTWORK, COMPRESSORS, PIPING, SUPPORTS, BOILERS, UNIT HEATERS, RADIATORS, GRAVITY VENTILATORS, CONTROLS AND ANCILLARY DEVICES IN THEIR ENTIRETY. EXISTING ROOF CURBS TO REMAIN FOR REUSE. REFER TO HAZARDOUS MATERIAL DRAWINGS BEFORE COMMENCING WORK.
3. REMOVE ALL INTERIOR & EXTERIOR ELECTRICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO LIGHTING, DISCONNECTS, AND PANEL BOARDS. REMOVE ALL CONDUIT AND WIRE BACK TO SOURCE. REFER TO HAZARDOUS MATERIAL DRAWINGS BEFORE COMMENCING WORK.
4. ALL INTERIOR AND EXTERIOR PLUMBING SYSTEMS SHALL BE REMOVED, INCLUDING BUT NOT LIMITED TO COLD WATER, SANITARY, VENT, AND STORM PIPING, ROOF DRAINS, PLUMBING FIXTURES, GAS PIPING, SUPPORTS AND ANCILLARY DEVICES IN THEIR ENTIRETY. EXISTING BELOW GRADE PIPING SHALL BE ABANDONED IN PLACE AND CAPPED UNLESS NOTED OTHERWISE. REFER TO HAZARDOUS MATERIAL DRAWINGS BEFORE COMMENCING WORK.
5. ALL HAZARDOUS MATERIAL REMOVAL BY LICENSED CONTRACTOR.
6. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL LOCAL, STATE AND FEDERAL CODES. LOCAL, STATE, AND FEDERAL CODES ARE TO TAKE PRECEDENCE OVER THE DRAWINGS AND SPECIFICATIONS. IF A DISCREPANCY IS FOUND, NOTIFY THE ARCHITECT IMMEDIATELY BEFORE PROCEEDING WITH ANY WORK.
7. ALL DIMENSIONS ARE TO THE FACE OF CONSTRUCTION UNLESS OTHERWISE NOTED. VERIFY ALL DIMENSIONS IN THE FIELD. LABELED DIMENSIONS ARE APPROXIMATE.
8. ALL DEMOLITION REFUSE IS TO BE DISPOSED OF AT THE END OF THE WORKDAY, OR STORED IN A SECURE LOCATION UNTIL DISPOSAL IS POSSIBLE. SITE SHOULD BE BROOM SWEPT AT THE END OF EACH DAY.
9. DO NOT SCALE DRAWINGS. IF THERE IS A DIMENSION THAT NEEDS CLARIFICATION CONTACT THE ARCHITECT BEFORE CONTINUING WORK.
10. ALL EXISTING LOOSE DEBRIS AND CONSTRUCTION MATERIAL TO BE REMOVED BY OWNER PRIOR TO WORK.
11. EXERCISE CAUTION DURING DEMOLITION TO MINIMIZE DISTURBANCE TO EXISTING BUILDING ELEMENTS TO REMAIN, INCLUDING FINISHES, SITE, AND STRUCTURAL ELEMENTS. WHERE THIS IS UNAVOIDABLE, REPAIR AFFECTED FINISHES AND ELEMENTS AS REQUIRED TO RETURN THEM TO THEIR ORIGINAL CONDITION OR BETTER. FINISHES AND ELEMENTS DEEMED IRREPARABLE BY THE ARCHITECT SHALL BE REPLACED IN KIND.
12. CAREFULLY REMOVE, SAFELY STORE AND PROTECT EXISTING MATERIALS INDICATED TO BE SALVAGED AND REINSTALLED.
13. DOCUMENT (LABEL & PHOTOGRAPH) EXISTING COMPONENTS INDICATED TO BE REMOVED AND SALVAGED FOR REHABILITATION AND/OR REINSTALLATION.
14. OFFER ALL EXISTING ITEMS TO BE REMOVED AND NOT INDICATED FOR SALVAGE TO PROPERTY OWNER FOR COLLECTION OR RETENTION PRIOR TO REMOVAL FROM THE SITE.
15. DO NOT SCALE DRAWINGS. USE ONLY INDICATED DIMENSIONS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
16. DIMENSIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY AND MAY VARY FROM THE ACTUAL DIMENSIONS. PRIOR TO START OF THE WORK VERIFY AND DOCUMENT ALL DIMENSIONS WHICH WILL AFFECT REQUIRED WORK.
17. VISIT AND CAREFULLY EXAMINE THE SITE PRIOR TO SUBMITTING BIDS FOR INDICATED WORK. SUBMISSION OF A BID PROPOSALS SHALL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE.
18. PRIOR TO START OF WORK EXAMINE THE PREMISES TO DETERMINE EXISTING CONDITIONS AND ESTABLISH PROCEDURES AND METHODS FOR DEMOLITION AND CONSTRUCTION IN ORDER TO ENSURE THAT DEMOLITION AND CONSTRUCTION WORK WILL PROCEED IN AN ORDERLY AND SYSTEMATIC MANNER. COORDINATE PROPOSED METHODS WITH OWNER'S DESIGNATED REPRESENTATIVE AND PROVIDE A SCHEDULE FOR SHUT-OFF, CAPPING OR CONTINUATION OF EXISTING UTILITIES.
19. ALL DEMOLITION REMOVAL WORK IN CONNECTION WITH THIS PROJECT SHALL BE DONE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING OWNER, APPLICABLE CODES, AND ALL AUTHORITIES AND AGENCIES HAVING JURISDICTION.
20. ALL CUTTING AND REMOVAL WORK IN CONNECTION WITH THIS PROJECT SHALL BE DONE BY MECHANICS SKILLED IN THE PARTICULAR TRADE. NO CUTTING SHALL BE DONE WITHOUT PROPER SAFEGUARDS TO WORKERS AND EQUIPMENT.
21. PROVIDE ADEQUATE SHORING AND BRACING AS REQUIRED TO SAFELY SUPPORT EXISTING WORK AND PREVENT DAMAGE. PRIOR TO REMOVAL OF ANY BUILDING COMPONENT SUPPORTING EXISTING CONSTRUCTION TO REMAIN, SUBMIT TO THE ARCHITECT FOR REVIEW AND APPROVAL PROPOSED METHODS OF TEMPORARY SUPPORT, INCLUDING NEEDLING, SHORING, BRACING, ETC., AS WELL AS PROPOSED METHODS OF PROTECTING EXISTING WORK TO REMAIN FROM DAMAGE.
22. DISCONNECTION, CAPPING AND REMOVAL OF ALL ABANDONED OR DISCONTINUED MECHANICAL, PLUMBING OR ELECTRICAL SYSTEMS AND COMPONENTS IS REQUIRED UNDER THE SCOPE OF THE PROJECT AND SHALL BE PERFORMED BY APPRIATE TRADES.
23. THE TERM "REMOVE" USED ON THE DRAWINGS DENOTES REMOVAL OF EXISTING MATERIALS AND ELEMENTS FROM THE PREMISES. UNLESS DIRECTED OTHERWISE ALL MATERIALS AND ELEMENTS SHALL BE REMOVED ENTIRELY AND DISPOSED OF IN A LEGAL MANNER.
24. ALL DEBRIS, REFUSE, SUPLUS EQUIPMENT , FIXTURES AND MATERIALS NOT REQUIRED TO BE INCORPORATED INTO THE WORK, AND ALL DEBRIS, REFUSE AND OTHER MATERIALS RESULTING FROM THE REMOVAL AND REHABILITATION WORK, SHALL BE REMOVED ON AL DAILY BASIS FROM THE SITE AND LEGALLY DISPOSED OF BY THE CONTRACTOR.
25. PROVIDE OPENINGS IN WALLS, FLOORS AND SLAB WHERE REQUIRED TO PERMIT PASSAGE OF PIPES, CONDUITS, ETC. COORDINATE WITH MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
26. EXISTING SURFACES DAMAGED BY DEMOLITION OR NEW CONSTRUCTION SHALL BE PATCHED AND REPAIRED AS REQUIRED TO MATCH ADJACENT SURFACES AND THE FINISH SCHEDULE.
27. REFER TO DRAWINGS AND SPECIFICATIONS OF OTHER DISCIPLINES FOR REQUIRED DEMOLITION WORK NOT SPECIFICALLY INDICATED ON THE ARCHITECTURAL DRAWINGS.
28. ALL BUILDING ELEMENTS SHOWN TO BE REMOVED AND SALVAGED SHALL BE CAREFULLY REMOVED AND SAFELY STORED AS DIRECTED BY THE PROPERTY OWNER. VERIFY WITH THE PROPERTY OWNER ALL ITEMS TO BE SALVAGED.
29. ALL SALVAGEABLE MATERIALS AND EQUIPMENT SHOWN TO BE REMOVED AND NOT REUSED OR CLAIMED BY THE OWNER SHALL BE TRANSPORTED FROM THE SITE. STORAGE OR SALE OF REMOVED ITEMS ON SITE WILL NOT BE PERMITTED.
30. THE LIST OF DEMOLITION KEYNOTES ARE KEYED TO THE DEMOLITION DRAWINGS AS A GUIDE FOR REFERENCE AND CONVENIENCE. THEY SHALL BE CONSIDERED GENERAL IN NATURE AND BINDING ON ALL AREAS OF THE BUILDING WHETHER SPECIFICALLY KEYNOTED OR NOT.



DEMOLITION PLAN GROUND FLOOR - NORTH

SCALE: 1/8" = 1'-0"



KEY PLAN

DEMOLITION KEYNOTES

D02	REMOVE ALL WOOD BLOCK FLOORING IN ACCORDANCE WITH SPECIFICATION 024119, 028200 AND HM DRAWINGS. REFER TO LIMITED PRE-RENOVATION HAZMAT INSPECTION REPORT TEST RESULTS. POWERWASH CONCRETE FLOOR TO REMAIN.
D03	CLEAN ALL EXISTING EXTERIOR MASONRY. REFER TO SPEC SECTIONS: 040110 - MASONRY CLEANING. REFER TO STRUCTURAL DRAWINGS AND SPEC SECTION 040120.63 - BRICK MASONRY REPAIR & SECTION 040120.64 - BRICK MASONRY REPOINTING.
D04	REMOVE EXISTING DOOR INCLUSIVE OF FRAME, TRANSOM, AND HARDWARE. PROTECT OPENING AND PREPARE TO RECEIVE DOOR AND FRAME AS SCHEDULED.
D05	REMOVE EXISTING OVERHEAD DOOR INCLUDING ALL TRACKS, HARDWARE, AND BLOCKING. PROVIDE TEMPORARY PLYWOOD PARTITION.
D06	REMOVE EXISTING STEEL FURNACE INCLUSIVE OF ALL DUCTS, PIPING, ELECTRIC, AND ASSOCIATED HARDWARE.
D07	REMOVE EXISTING ASSUMED REINFORCED CONCRETE FOUNDATION SYSTEM FULL DEPTH, IN ITS ENTIRETY, WITHOUT DAMAGING THE EXISTING BUILDING'S REINFORCED CONCRETE FOUNDATIONS TO REMAIN. VERIFY IN FIELD.
D20	REMOVE EXISTING STEEL STAIR AND ASSOCIATED HARDWARE, RAILINGS, AND FOUNDATIONS.
D21	REMOVE EXSTING 30" HIGH CONCRETE KNEE WALLS AND REPAIR FLOOR TO MATCH ADJACENT.
D26	REMOVE EXISTING CONCRETE SLAB AND PREPARE FOR NEW SLOPED CONCRETE SLAB. ALSO TYPICAL AT ALL EXTERIOR DOORS. REFER TO STRUCTURAL.
D27	PROVIDE MASONRY OPENING FOR MECH. DUCT AND LOUVER AS SCHEDULED. REFER TO STRUCTURAL AND MECHANICAL FOR OPENING SIZE, LOCATION AND DETAILS.
D31	REMOVE GRAFFITI FROM MASONRY AND/OR CONCRETE. REFER TO SPEC SECTION 040110 - MASONRY CLEANING.
D36	REMOVE JIB CRANE AND PATCH CONCRETE FLOOR.
D42	REMOVE NON-ORIGINAL STEEL COLUMNS AFTER EQUIPMENT ABOVE IS REMOVED FROM PLATFORM. PATCH FLOOR AS NEEDED.
D44	WHERE REQUIRED, PROVIDE P.T. WOOD BLOCKING UNDER MTL. STAIR STRINGERS AND LADDERS WHERE WOOD BLOCK FLOORING IS REMOVED AND SUPPORTING STAIRS OR LADDERS.

BUDC
Buffalo Urban Development Corporation
Hon. Christopher P. Scanlon, Chairman

BUFFALO URBAN DEVELOPMENT CORPORATION
631 NORTHLAND AVE.
BUFFALO, NY 14211

INDUSTRIAL MANUFACTURING BUILDING

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02	ADDENDUM #2	10/17/2025
01	ISSUED FOR PERMIT	10/01/2025
00	ISSUED FOR BID	10/01/2025

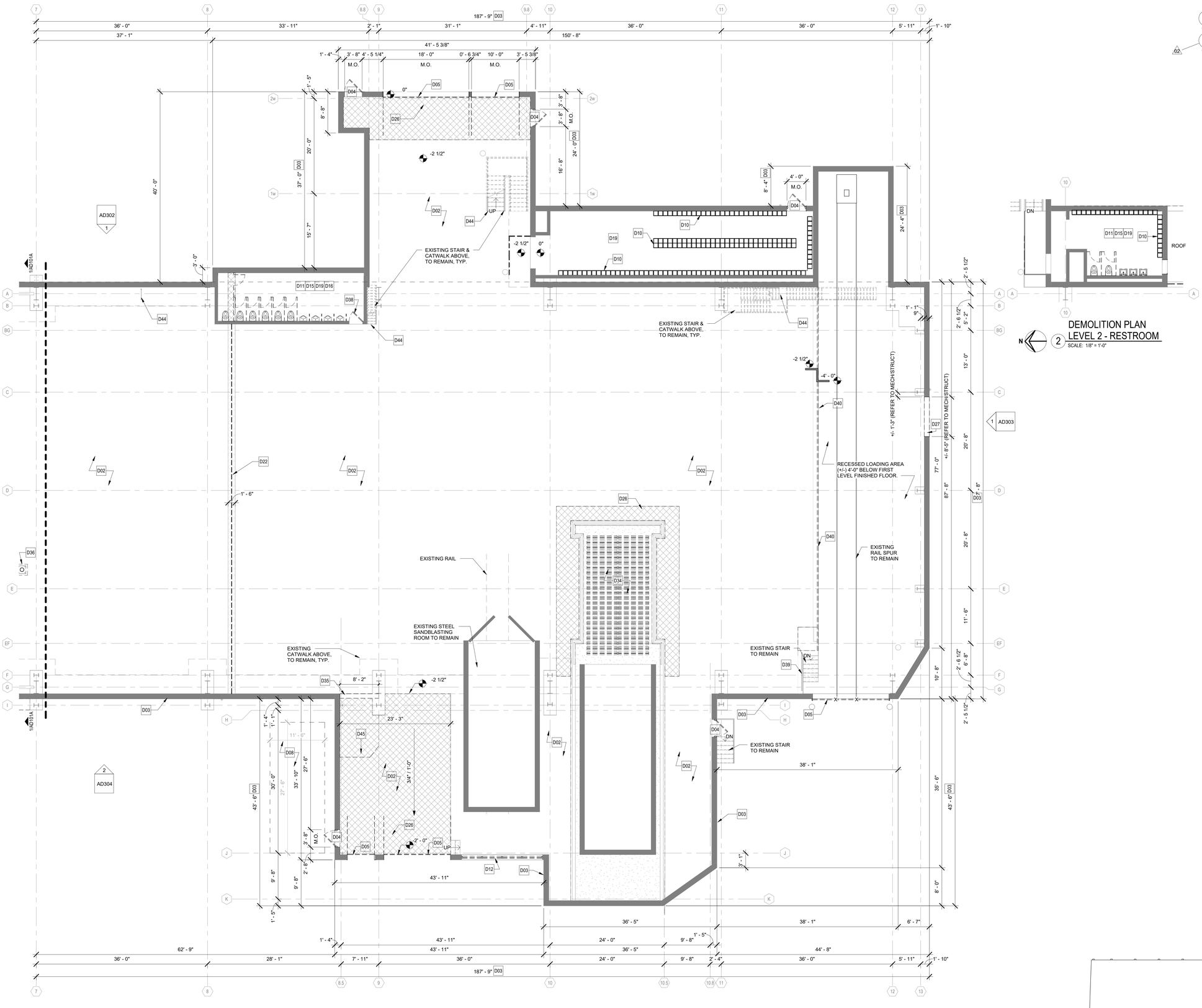
DWG. TITLE

DEMOLITION PLAN - GROUND FLOOR - NORTH

0 1" 2"
GENERIC SCALE BAR
SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING. IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY.

DATE	10/01/2025
SCALE	As indicated
DWN.	MJC
CHK.	BS1
PROJ. No.	432607
DWG. No.	

AD101A



DEMOLITION KEYNOTES

D02	REMOVE ALL WOOD BLOCK FLOORING IN ACCORDANCE WITH SPECIFICATION 024119, 028200 AND HM DRAWINGS. REFER TO LIMITED PRE-RENOVATION HAZMAT INSPECTION REPORT TEST RESULTS. POWERWASH CONCRETE FLOOR TO REMAIN.
D03	CLEAN ALL EXISTING EXTERIOR MASONRY. REFER TO SPEC SECTIONS: 040110 - MASONRY CLEANING. REFER TO STRUCTURAL DRAWINGS AND SPEC SECTION 040120.63 - BRICK MASONRY REPAIR & SECTION 040120.64 - BRICK MASONRY REPOINTING.
D04	REMOVE EXISTING DOOR INCLUSIVE OF FRAME, TRANSOM, AND HARDWARE. PROTECT OPENING AND PREPARE TO RECEIVE DOOR AND FRAME AS SCHEDULED.
D05	REMOVE EXISTING OVERHEAD DOOR INCLUDING ALL TRACKS, HARDWARE, AND BLOCKING. PROVIDE TEMPORARY PLYWOOD PARTITION.
D08	REMOVE EXTERIOR EQUIPMENT INCLUDING ALL FOOTINGS AND ASSOCIATED STEEL STRUCTURE.
D10	REMOVE ALL LOCKERS INCLUDING CURBS. REFER TO HAZARDOUS MATERIAL (HM) DRAWINGS.
D11	REMOVE ALL PLUMBING FIXTURES INCLUDING HANGERS, ASSOCIATED PLUMBING, AND TOILET ACCESSORIES.
D12	REMOVE ALL WINDOWS AND ASSOCIATED HARDWARE. REFER TO ENVIRONMENTAL REPORT.
D15	REMOVE ALL TOILET PARTITIONS
D16	REMOVE UNIT SUBSTATION ON MEZZANINE ABOVE. PRIMARY SWITCH, 750KVA TRANSFORMER, 480V DISTRIBUTION. EXISTING DC GENERATOR TO REMAIN.
D19	REMOVE ALL WALL TILE AND FLOOR TILE. PREPARE WALLS FOR FUTURE BUILDOUT. REMOVE FLOOR MORTAR AND LEVEL FLOOR TO MATCH ORIGINAL HEIGHT OF TILE. (SEE ENVIRONMENTAL REPORT AND DRAWINGS AS ACMs WERE FOUND IN RESTROOMS.
D22	BURIED ELECTRICAL LINE TO BE REMOVED. LINE IS AN ASBESTOS CONTAINING MATERIAL (ACM). SEE ENVIRONMENTAL DRAWINGS FOR ABATEMENT DETAILS.
D26	REMOVE EXISTING CONCRETE SLAB AND PREPARE FOR NEW SLOPED CONCRETE SLAB. ALSO TYPICAL AT ALL EXTERIOR DOORS. REFER TO STRUCTURAL.
D27	PROVIDE MASONRY OPENING FOR MECH. DUCT AND LOUVER AS SCHEDULED. REFER TO STRUCTURAL AND MECHANICAL FOR OPENING SIZE, LOCATION AND DETAILS.
D34	REMOVE STEEL SLED AND TRACK IN IS ENTIRETY. CLEAR ANY LOOSE DEBRIS.
D35	REMOVE EXISTING DOUBLE WALL. SEE STRUCTURAL.
D36	REMOVE JIB CRANE AND PATCH CONCRETE FLOOR.
D38	REMOVE EXISTING DOOR AND ASSOCIATED HARDWARE. DOOR FRAME TO REMAIN. PROTECT OPENING AND PREPARE TO RECEIVE DOOR AS SCHEDULED.
D39	REMOVE EXISTING HANDRAIL.
D40	REMOVE EXISTING GUARDRAIL SLEEVES AND STEEL PLATE. COORDINATE WITH STRUCTURAL DRAWINGS.
D44	WHERE REQUIRED, PROVIDE P.T. WOOD BLOCKING UNDER MTL. STAIR STRINGERS AND LADDERS WHERE WOOD BLOCK FLOORING IS REMOVED AND SUPPORTING STAIRS OR LADDERS.
D45	REMOVE EXISTING CONCRETE PLATFORM.

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NO.	REVISIONS	DATE
02	ADDENDUM #2	10/17/2025
01	ISSUED FOR PERMIT	10/01/2025
00	ISSUED FOR BID	10/01/2025

DWG. TITLE

DEMOLITION PLAN - GROUND FLOOR - SOUTH

GENERIC SCALE BAR
0 1" 2"
SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING. IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY.

DATE	10/01/2025
SCALE	1/8" = 1'-0"
DWN.	MJC
CHK.	BS1
PROJ. No.	432607
DWG. No.	**AD101B**

SECTION 230529 - HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Metal pipe hangers and supports.
2. Trapeze pipe hangers.
3. Metal framing systems.
4. Thermal-hanger shield inserts.
5. Fastener systems.
6. Pipe stands.
7. Equipment supports.

B. Related Sections:

1. Division 05 Section "Metal Fabrications" for structural-steel shapes and plates for trapeze hangers for pipe and equipment supports.
2. Division 23 Section "Metal Ducts" for duct hangers and supports.

1.3 DEFINITIONS

A. MSS: Manufacturers Standardization Society of The Valve and Fittings Industry Inc.

1.4 PERFORMANCE REQUIREMENTS

A. Delegated Design: Design trapeze pipe hangers and equipment supports, including comprehensive engineering analysis signed and sealed by a qualified professional engineer, licensed in the project location state, responsible for their preparation. Design to include hangers associated with supports from walls, columns, or the structure above using performance requirements and design criteria indicated. All building attachments to be coordinated with building design.

1. Detail fabrication and assembly of hangers.
2. Design Calculations: Calculate requirements for designing hangers

B. Structural Performance: Hangers and supports for HVAC piping and equipment shall withstand the effects of gravity loads and stresses within limits and under conditions indicated according to ASCE/SEI 7.

1. Design supports for multiple pipes, including pipe stands, capable of supporting combined weight of supported systems, system contents, and test water.
2. Design equipment supports capable of supporting combined operating weight of supported equipment and connected systems and components.

1.5 ACTION SUBMITTALS

A. Product Data: For each type of product indicated.

B. Shop Drawings: Show fabrication and installation details and include calculations for the following; include Product Data for components:

1. Trapeze pipe hangers.
2. Metal framing systems.
3. Pipe stands.
4. Equipment supports.

1.6 INFORMATIONAL SUBMITTALS

A. Delegated-Design Submittal: Refer to above

B. Welding certificates.

1.7 QUALITY ASSURANCE

A. Structural Steel Welding Qualifications: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code - Steel."

B. Pipe Welding Qualifications: Qualify procedures and operators according to ASME Boiler and Pressure Vessel Code.

PART 2 - PRODUCTS

2.1 METAL PIPE HANGERS AND SUPPORTS

A. Carbon-Steel Pipe Hangers and Supports:

1. Description: MSS SP-58, Types 1 through 58, factory-fabricated components.
2. Galvanized Metallic Coatings: Pre-galvanized or hot dipped.
3. Nonmetallic Coatings: Plastic coating, jacket, or liner.
4. Padded Hangers: Hanger with fiberglass or other pipe insulation pad or cushion to support bearing surface of piping.

5. Hanger Rods: Continuous-thread rod, nuts, and washer made of stainless steel.

B. Stainless-Steel Pipe Hangers and Supports:

1. Description: MSS SP-58, Types 1 through 58, factory-fabricated components.
2. Padded Hangers: Hanger with fiberglass or other pipe insulation pad or cushion to support bearing surface of piping.
3. Hanger Rods: Continuous-thread rod, nuts, and washer made of stainless steel

C. Copper Pipe Hangers:

1. Description: MSS SP-58, Types 1 through 58, copper-coated-steel, factory-fabricated components.
2. Hanger Rods: Continuous-thread rod, nuts, and washer made of copper-coated steel.

2.2 TRAPEZE PIPE HANGERS

A. Description: MSS SP-69, Type 59, shop- or field-fabricated pipe-support assembly made from structural carbon-steel shapes with MSS SP-58 carbon-steel hanger rods, nuts, saddles, and U-bolts.

2.3 METAL FRAMING SYSTEMS

A. MFMA Manufacturer Metal Framing Systems:

1. Performance: Subject to compliance with requirements and related documents, provide products meeting a minimum performance of the following:

a. Description: Shop- or field-fabricated pipe-support assembly for supporting multiple parallel pipes.
b. Standard: MFMA-4.
c. Channels: Continuous slotted steel channel with inturned lips.
d. Channel Nuts: Formed or stamped steel nuts or other devices designed to fit into channel slot and, when tightened, prevent slipping along channel.
e. Hanger Rods: Continuous-thread rod, nuts, and washer made of stainless steel.
f. Metallic Coating: Hot-dipped galvanized.
g. Paint Coating: Vinyl, Epoxy or Alkyd

2.4 THERMAL-HANGER SHIELD INSERTS

A. Performance: Subject to compliance with requirements and related documents, provide products meeting a minimum performance of the following:

B. Insulation-Insert Material for Cold Piping: ASTM C 552, Type II cellular glass with 100-psig or ASTM C 591, Type VI, Grade 1 polyisocyanurate with 125-psig minimum compressive strength and vapor barrier.

C. Insulation-Insert Material for Hot Piping: ASTM C 552, Type II cellular glass with 100-psig or ASTM C 591, Type VI, Grade 1 polyisocyanurate with 125-psig minimum compressive strength.

D. For Trapeze or Clamped Systems: Insert and shield shall cover entire circumference of pipe.

E. For Clevis or Band Hangers: Insert and shield shall cover lower 180 degrees of pipe.

F. Insert Length: Extend 2 inches beyond sheet metal shield for piping operating below ambient air temperature.

2.5 FASTENER SYSTEMS

A. Powder-Actuated Fasteners: Threaded-steel stud, for use in hardened portland cement concrete with pull-out, tension, and shear capacities appropriate for supported loads and building materials where used.

B. Mechanical-Expansion Anchors: Insert-wedge-type, stainless-steel anchors, for use in hardened portland cement concrete; with pull-out, tension, and shear capacities appropriate for supported loads and building materials where used.

C. Coordinate building attachments with building construction.

2.6 PIPE STANDS

A. General Requirements for Pipe Stands: Shop- or field-fabricated assemblies made of manufactured corrosion-resistant components to support roof-mounted piping.

B. Compact Pipe Stand: One-piece plastic unit with integral-rod roller, pipe clamps, or V-shaped cradle to support pipe, for roof installation without membrane penetration.

C. Low-Type, Single-Pipe Stand: One-piece plastic base unit with plastic roller, for roof installation without membrane penetration.

D. High-Type, Single-Pipe Stand:

1. Description: Assembly of base, vertical and horizontal members, and pipe support, for roof installation without membrane penetration.
2. Base: Plastic.
3. Vertical Members: Two or more cadmium-plated-steel or stainless-steel, continuous-thread rods.
4. Horizontal Member: Cadmium-plated-steel or stainless-steel rod with plastic or stainless-steel, roller-type pipe support.

E. High-Type, Multiple-Pipe Stand:

1. Description: Assembly of bases, vertical and horizontal members, and pipe supports, for roof installation without membrane penetration.

2. Bases: One or more; plastic.
3. Vertical Members: Two or more protective-coated-steel channels.
4. Horizontal Member: Protective-coated-steel channel.
5. Pipe Supports: Galvanized-steel, clevis-type pipe hangers.

F. Curb-Mounted-Type Pipe Stands: Shop- or field-fabricated pipe supports made from structural-steel shapes, continuous-thread rods, and rollers, for mounting on permanent stationary roof curb.

2.7 EQUIPMENT SUPPORTS

A. Description: Welded, shop- or field-fabricated equipment support made from structural carbon-steel shapes.

B. Coordinate building attachments with building construction.

C. Roof mounted equipment supports

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following

    a. The Pate Company
    b. Erico Caddy

2. Support

    a. 18 gauge galvanized steel, unitized construction with integral base plate
    b. Continuous welded corner seems
    c. Pressure treated wood nailer
    d. Counterflashing with screws
    e. Internally reinforced
    f. 7 ½” wide X 19” high
    g. Moment of inertia- 123 in^4
    h. Maximum allowable uniform load- 3500 lb/ft

2.8 MISCELLANEOUS MATERIALS

A. Structural Steel: ASTM A 36/A 36M, carbon-steel plates, shapes, and bars; black and galvanized.

B. Grout: ASTM C 1107, factory-mixed and -packaged, dry, hydraulic-cement, non-shrink and nonmetallic grout; suitable for interior and exterior applications.

1. Properties: Non-staining, noncorrosive, and nongaseous.
2. Design Mix: 5000-psi, 28-day compressive strength.

PART 3 - EXECUTION

3.1 HANGER AND SUPPORT INSTALLATION

A. Metal Pipe-Hanger Installation: Comply with MSS SP-69 and MSS SP-89. Install hangers, supports, clamps, and attachments as required to properly support piping from the building structure.

B. Metal Trapeze Pipe-Hanger Installation: Comply with MSS SP-69 and MSS SP-89. Arrange for grouping of parallel runs of horizontal piping, and support together on field-fabricated trapeze pipe hangers.

1. Pipes of Various Sizes: Support together and space trapezes for smallest pipe size or install intermediate supports for smaller diameter pipes as specified for individual pipe hangers.
2. Field fabricate from ASTM A 36/A 36M, carbon-steel shapes selected for loads being supported. Weld steel according to AWS D1.1/D1.1M.

C. Metal Framing System Installation: Arrange for grouping of parallel runs of piping, and support together on field-assembled metal framing systems.

D. Thermal-Hanger Shield Installation: Install in pipe hanger or shield for insulated piping.

E. Fastener System Installation:

1. Install powder-actuated fasteners for use in lightweight concrete or concrete slabs less than 4 inches thick in concrete after concrete is placed and completely cured. Use operators that are licensed by powder-actuated tool manufacturer. Install fasteners according to powder-actuated tool manufacturer's operating manual.
2. Install mechanical-expansion anchors in concrete after concrete is placed and completely cured. Install fasteners according to manufacturer's written instructions.

F. Pipe Stand Installation:

1. Pipe Stand Types except Curb-Mounted Type: Assemble components and mount on smooth roof surface. Do not penetrate roof membrane.
2. Curb-Mounted-Type Pipe Stands: Assemble components or fabricate pipe stand and mount on permanent, stationary roof curb. See Division 07 Section "Roof Accessories" for curbs.

G. Install hangers and supports complete with necessary attachments, inserts, bolts, rods, nuts, washers, and other accessories.

H. Equipment Support Installation: Fabricate from welded-structural-steel shapes.

I. Install lateral bracing with pipe hangers and supports to prevent swaying.

J. Install building attachments within concrete slabs or attach to structural steel. Install additional attachments at concentrated loads, including valves, flanges, and strainers, NPS 2-1/2 and larger

and at changes in direction of piping. Install concrete inserts before concrete is placed; fasten inserts to forms and install reinforcing bars through openings at top of inserts.

K. Load Distribution: Install hangers and supports so that piping live and dead loads and stresses from movement will not be transmitted to connected equipment.

L. Pipe Slopes: Install hangers and supports to provide indicated pipe slopes and to not exceed maximum pipe deflections allowed by ASME B31.9 for building services piping.

M. Insulated Piping:

1. Attach clamps and spacers to piping.

    a. Piping Operating above Ambient Air Temperature: Clamp may project through insulation.
    b. Piping Operating below Ambient Air Temperature: Use thermal-hanger shield insert with clamp sized to match OD of insert.
    c. Do not exceed pipe stress limits allowed by ASME B31.9 for building services piping.

2. Install MSS SP-58, Type 39, protection saddles if insulation without vapor barrier is indicated. Fill interior voids with insulation that matches adjoining insulation.

    a. Option: Thermal-hanger shield inserts may be used. Include steel weight-distribution plate for pipe NPS 4 and larger if pipe is installed on rollers.

3. Install MSS SP-58, Type 40, protective shields on cold piping with vapor barrier. Shields shall span an arc of 180 degrees.

    a. Option: Thermal-hanger shield inserts may be used. Include steel weight-distribution plate for pipe NPS 4 and larger if pipe is installed on rollers.

4. Shield Dimensions for Pipe: Not less than the following:

    a. NPS 1/4 to NPS 3-1/2: 12 inches long and 0.048 inch thick.
    b. NPS 4: 12 inches long and 0.06 inch thick.
    c. NPS 5 and NPS 6: 18 inches long and 0.06 inch thick.
    d. NPS 8 to NPS 14: 24 inches long and 0.075 inch thick.

5. Pipes NPS 8 and Larger: Include wood or reinforced calcium-silicate-insulation inserts of length at least as long as protective shield.
6. Thermal-Hanger Shields: Install with insulation same thickness as piping insulation.

3.2 EQUIPMENT SUPPORTS

A. Fabricate structural-steel stands to suspend equipment from structure overhead or to support equipment above floor.

B. Grouting: Place grout under supports for equipment and make bearing surface smooth.

C. Provide lateral bracing, to prevent swaying, for equipment supports.

3.3 METAL FABRICATIONS

A. Cut, drill, and fit miscellaneous metal fabrications for trapeze pipe hangers and equipment supports.

B. Fit exposed connections together to form hairline joints. Field weld connections that cannot be shop welded because of shipping size limitations.

C. Field Welding: Comply with AWS D1.1/D1.1M procedures for shielded, metal arc welding; appearance and quality of welds; and methods used in correcting welding work; and with the following:

1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
2. Obtain fusion without undercut or overlap.
3. Remove welding flux immediately.
4. Finish welds at exposed connections so no roughness shows after finishing and so contours of welded surfaces match adjacent contours.

3.4 ADJUSTING

A. Hanger Adjustments: Adjust hangers to distribute loads equally on attachments and to achieve indicated slope of pipe.

B. Trim excess length of continuous-thread hanger and support rods to 1-1/2 inches

3.5 PAINTING

A. Touchup: Clean field welds and abraded areas of shop paint. Paint exposed areas immediately after erecting hangers and supports. Use same materials as used for shop painting. Comply with SSPC-PA 1 requirements for touching up field-painted surfaces.

1. Apply paint by brush or spray to provide a minimum dry film thickness of 2.0 mils.

B. Touchup: Cleaning and touchup painting of field welds, bolted connections, and abraded areas of shop paint on miscellaneous metal are specified in Division 09 painting Sections.

C. Galvanized Surfaces: Clean welds, bolted connections, and abraded areas and apply galvanizing-repair paint to comply with ASTM A 780.

3.6 HANGER AND SUPPORT SCHEDULE

A. Specific hanger and support requirements are in Sections specifying piping systems and equipment.

B. Comply with MSS SP-69 for pipe-hanger selections and applications that are not specified in piping system Sections.

C. Use hangers and supports with galvanized metallic coatings for piping and equipment that will not have field-applied finish.

D. Use nonmetallic coatings on attachments for electrolytic protection where attachments are in direct contact with copper tubing.

E. Use carbon-steel pipe hangers and supports or metal trapeze pipe hangers and attachments for general service applications.

F. Use stainless-steel pipe hangers and stainless-steel attachments for hostile environment applications.

G. Use copper-plated pipe hangers and copper attachments for copper piping and tubing.

H. Use padded hangers for piping that is subject to scratching.

I. Use thermal-hanger shield inserts for insulated piping and tubing.

J. Horizontal-Piping Hangers and Supports: Unless otherwise indicated and except as specified in piping system Sections, install the following types:

1. Adjustable, Steel Clevis Hangers (MSS Type 1): For suspension of non-insulated or insulated, stationary pipes NPS 1/2 to NPS 30.
2. Carbon- or Alloy-Steel, Double-Bolt Pipe Clamps (MSS Type 3): For suspension of pipes NPS 3/4 to NPS 8, requiring clamp flexibility and up to 4 inches of insulation.
3. Steel Pipe Clamps (MSS Type 4): For suspension of cold and hot pipes NPS 1/2 to NPS 8 if little or no insulation is required.
4. Pipe Hangers (MSS Type 5): For suspension of pipes NPS 1/2 to NPS 4, to allow off-center closure for hanger installation before pipe erection.
5. Adjustable, Swivel Split- or Solid-Ring Hangers (MSS Type 6): For suspension of non-insulated, stationary pipes NPS 3/4 to NPS 8.
6. Adjustable, Steel Band Hangers (MSS Type 7): For suspension of non-insulated, stationary pipes NPS 1/2 to NPS 8.
7. Adjustable Band Hangers (MSS Type 9): For suspension of non-insulated, stationary pipes NPS 1/2 to NPS 8.
8. Adjustable, Swivel-Ring Band Hangers (MSS Type 10): For suspension of non-insulated, stationary pipes NPS 1/2 to NPS 8.
9. Split Pipe Ring with or without Turnbuckle Hangers (MSS Type 11): For suspension of non-insulated, stationary pipes NPS 3/8 to NPS 8.
10. Extension Hinged or Two-Bolt Split Pipe Clamps (MSS Type 12): For suspension of non-insulated, stationary pipes NPS 3/8 to NPS 3.
11. U-Bolts (MSS Type 24): For support of heavy pipes NPS 1/2 to NPS 8.
12. Clips (MSS Type 26): For support of insulated pipes not subject to expansion or contraction.
13. Pipe Saddle Supports (MSS Type 36): For support of pipes NPS 4 to NPS 8, with steel-pipe base stanchion support and cast-iron floor flange or carbon-steel plate.

14. Pipe Stanchion Saddles (MSS Type 37): For support of pipes NPS 4 to NPS 8, with steel-pipe base stanchion support and cast-iron floor flange or carbon-steel plate, and with U-bolt to retain pipe.
15. Adjustable Pipe Saddle Supports (MSS Type 38): For stanchion-type support for pipes NPS 2-1/2 to NPS 8 if vertical adjustment is required, with steel-pipe base stanchion support and cast-iron floor flange.
16. Single-Pipe Rolls (MSS Type 41): For suspension of pipes NPS 1 to NPS 8, from two rods if longitudinal movement caused by expansion and contraction might occur.
17. Adjustable Roller Hangers (MSS Type 43): For suspension of pipes NPS 2-1/2 to NPS 8, from single rod if horizontal movement caused by expansion and contraction might occur.
18. Complete Pipe Rolls (MSS Type 44): For support of pipes NPS 2 to NPS 8 if longitudinal movement caused by expansion and contraction might occur but vertical adjustment is not necessary.
19. Pipe Roll and Plate Units (MSS Type 45): For support of pipes NPS 2 to NPS 8 if small horizontal movement caused by expansion and contraction might occur and vertical adjustment is not necessary.
20. Adjustable Pipe Roll and Base Units (MSS Type 46): For support of pipes NPS 2 to NPS 8 if vertical and lateral adjustment during installation might be required in addition to expansion and contraction.

K. Vertical-Piping Clamps: Unless otherwise indicated and except as specified in piping system Sections, install the following types:

1. Extension Pipe or Riser Clamps (MSS Type 8): For support of pipe risers NPS 3/4 to NPS 8.
2. Carbon- or Alloy-Steel Riser Clamps (MSS Type 42): For support of pipe risers NPS 3/4 to NPS 8 if longer ends are required for riser clamps.

L. Hanger-Rod Attachments: Unless otherwise indicated and except as specified in piping system Sections, install the following types:

1. Steel Turnbuckles (MSS Type 13): For adjustment up to 6 inches for heavy loads.
2. Steel Clevises (MSS Type 14): For 120 to 450 deg F piping installations.
3. Swivel Turnbuckles (MSS Type 15): For use with MSS Type 11, split pipe rings.
4. Malleable-Iron Sockets (MSS Type 16): For attaching hanger rods to various types of building attachments.
5. Steel Weldless Eye Nuts (MSS Type 17): For 120 to 450 deg F piping installations.

M. Building Attachments: Unless otherwise indicated and except as specified in piping system Sections, install the following types:

1. Steel or Malleable Concrete Inserts (MSS Type 18): For upper attachment to suspend pipe hangers from concrete ceiling.
2. Top-Beam C-Clamps (MSS Type 19): For use under roof installations with bar-joist construction, to attach to top flange of structural shape.
3. Side-Beam or Channel Clamps (MSS Type 20): For attaching to bottom flange of beams, channels, or angles.
4. Center-Beam Clamps (MSS Type 21): For attaching to center of bottom flange of beams.

5. Welded Beam Attachments (MSS Type 22): For attaching to bottom of beams if loads are considerable and rod sizes are large.
6. C-Clamps (MSS Type 23): For structural shapes.
7. Top-Beam Clamps (MSS Type 25): For top of beams if hanger rod is required tangent to flange edge.
8. Side-Beam Clamps (MSS Type 27): For bottom of steel I-beams.
9. Steel-Beam Clamps with Eye Nuts (MSS Type 28): For attaching to bottom of steel I-beams for heavy loads.
10. Linked-Steel Clamps with Eye Nuts (MSS Type 29): For attaching to bottom of steel I-beams for heavy loads, with link extensions.
11. Malleable-Beam Clamps with Extension Pieces (MSS Type 30): For attaching to structural steel.
12. Welded-Steel Brackets: For support of pipes from below or for suspending from above by using clip and rod. Use one of the following for indicated loads:

    a. Light (MSS Type 31): 750 lb.
    b. Medium (MSS Type 32): 1500 lb.
    c. Heavy (MSS Type 33): 3000 lb.

13. Side-Beam Brackets (MSS Type 34): For sides of steel or wooden beams.
14. Plate Lugs (MSS Type 57): For attaching to steel beams if flexibility at beam is required.
15. Horizontal Travelers (MSS Type 58): For supporting piping systems subject to linear horizontal movement where headroom is limited.

N. Saddles and Shields: Unless otherwise indicated and except as specified in piping system Sections, install the following types:

1. Steel-Pipe-Covering Protection Saddles (MSS Type 39): To fill interior voids with insulation that matches adjoining insulation.
2. Protection Shields (MSS Type 40): Of length recommended in writing by manufacturer to prevent crushing insulation.
3. Thermal-Hanger Shield Inserts: For supporting insulated pipe.

O. Spring Hangers and Supports: Unless otherwise indicated and except as specified in piping system Sections, install the following types:

1. Restraint-Control Devices (MSS Type 47): Where indicated to control piping movement.
2. Spring Cushions (MSS Type 48): For light loads if vertical movement does not exceed 1-1/4 inches.
3. Spring-Cushion Roll Hangers (MSS Type 49): For equipping Type 41, roll hanger with springs.
4. Spring Sway Braces (MSS Type 50): To retard sway, shock, vibration, or thermal expansion in piping systems.
5. Variable-Spring Hangers (MSS Type 51): Preset to indicated load and limit variability factor to 25 percent to allow expansion and contraction of piping system from hanger.
6. Variable-Spring Base Supports (MSS Type 52): Preset to indicated load and limit variability factor to 25 percent to allow expansion and contraction of piping system from base support.

7. Variable-Spring Trapeze Hangers (MSS Type 53): Preset to indicated load and limit variability factor to 25 percent to allow expansion and contraction of piping system from trapeze support.
8. Constant Supports: For critical piping stress and if necessary to avoid transfer of stress from one support to another support, critical terminal, or connected equipment. Include auxiliary stops for erection, hydrostatic test, and load-adjustment capability. These supports include the following types:

    a. Horizontal (MSS Type 54): Mounted horizontally.
    b. Vertical (MSS Type 55): Mounted vertically.
    c. Trapeze (MSS Type 56): Two vertical-type supports and one trapeze member.

P. Comply with MSS SP-69 for trapeze pipe-hanger selections and applications that are not specified in piping system Sections.

Q. Comply with MFMA-103 for metal framing system selections and applications that are not specified in piping system Sections.

R. Use powder-actuated fasteners or mechanical-expansion anchors instead of building attachments where required in concrete construction.

END OF SECTION 230529

SECTION 230553 - IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Equipment labels.
2. Warning signs and labels.
3. Pipe labels.
4. Duct labels.
5. Valve tags.
6. Warning tags.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product indicated.

B. Equipment Label Schedule: Include a listing of all equipment to be labeled with the proposed content for each label.

C. Valve numbering scheme.

D. Valve Schedules: For each piping system to include in maintenance manuals.

1.4 COORDINATION

A. Coordinate installation of identifying devices with completion of covering and painting of surfaces where devices are to be applied.

B. Coordinate installation of identifying devices with locations of access panels and doors.

C. Install identifying devices before installing acoustical ceilings and similar concealment.

PART 2 - PRODUCTS

2.1 EQUIPMENT LABELS

A. Metal Labels for Equipment:

1. Material and Thickness: Brass, 0.032-inch minimum thickness, and having predrilled or stamped holes for attachment hardware.
2. Minimum Label Size: Length and width vary for required label content, but not less than 2-1/2 by 3/4 inch.
3. Minimum Letter Size: 1/4 inch for name of units if viewing distance is less than 24 inches, 1/2 inch for viewing distances up to 72 inches, and proportionately larger lettering for greater viewing distances. Include secondary lettering two-thirds to three-fourths the size of principal lettering.
4. Fasteners: Stainless-steel rivets.

B. Plastic Labels for Equipment:

1. Material and Thickness: Multilayer, multicolor, plastic labels for mechanical engraving, 1/8 inch thick, and having predrilled holes for attachment hardware.
2. Letter Color: White.
3. Background Color: Black.
4. Maximum Temperature: Able to withstand temperatures up to 160 deg F.
5. Minimum Label Size: Length and width vary for required label content, but not less than 2-1/2 by 3/4 inch.
6. Minimum Letter Size: 1/4 inch for name of units if viewing distance is less than 24 inches, 1/2 inch for viewing distances up to 72 inches and proportionately larger lettering for greater viewing distances. Include secondary lettering two-thirds to three-fourths the size of principal lettering.
7. Fasteners: Stainless-steel rivets or self-tapping screws.

C. Label Content: Include equipment's Drawing designation or unique equipment number, Drawing numbers where equipment is indicated (plans, details, and schedules), plus the Specification Section number and title where equipment is specified.

D. Equipment Label Schedule: For each item of equipment to be labeled, on 8-1/2-by-11-inch bond paper. Tabulate equipment identification number and identify Drawing numbers where equipment is indicated (plans, details, and schedules), plus the Specification Section number and title where equipment is specified. Equipment schedule shall be included in operation and maintenance data.

2.2 WARNING SIGNS AND LABELS

A. Material and Thickness: Multilayer, multicolor, plastic labels for mechanical engraving, 1/16 inch thick, and having predrilled holes for attachment hardware.

B. Letter Color: Black.

C. Background Color: Yellow.

D. Maximum Temperature: Able to withstand temperatures up to 160 deg F.

E. Minimum Label Size: Length and width vary for required label content, but not less than 2-1/2 by 3/4 inch.

F. Minimum Letter Size: 1/4 inch for name of units if viewing distance is less than 24 inches, 1/2 inch for viewing distances up to 72 inches, and proportionately larger lettering for greater viewing distances. Include secondary lettering two-thirds to three-fourths the size of principal lettering.

G. Fasteners: Stainless-steel rivets or self-tapping screws.

H. Label Content: Include caution and warning information, plus emergency notification instructions.

2.3 PIPE LABELS

A. General Requirements for Manufactured Pipe Labels: Preprinted, color-coded, with lettering indicating service, and showing flow direction.

B. Pre-tensioned Pipe Labels: Pre-coiled, semi-rigid plastic formed to cover full circumference of pipe and to attach to pipe without fasteners or adhesive.

C. Pipe Label Contents: Include identification of piping service using same designations or abbreviations as used on Drawings, pipe size, and an arrow indicating flow direction.

1. Flow-Direction Arrows: Integral with piping system service lettering to accommodate both directions, or as separate unit on each pipe label to indicate flow direction.
2. Lettering Size: At least 1-1/2 inches high.

2.4 DUCT LABELS

A. Self-Adhesive Labels: Printed plastic with contact-type, permanent-adhesive backing.

B. Maximum Temperature: Able to withstand temperatures up to 160 deg F.

C. Minimum Label Size: Length and width vary for required label content, but not less than 2-1/2 by 3/4 inch.

D. Minimum Letter Size: 1/4 inch for name of units if viewing distance is less than 24 inches, 1/2 inch for viewing distances up to 72 inches, and proportionately larger lettering for greater viewing distances. Include secondary lettering two-thirds to three-fourths the size of principal lettering.

E. Duct Label Contents: Include identification of duct service using same designations or abbreviations as used on Drawings, duct size, and an arrow indicating flow direction.

1. Flow-Direction Arrows: Integral with duct system service lettering to accommodate both directions, or as separate unit on each duct label to indicate flow direction.

2. Lettering Size: At least 1-1/2 inches high.

2.5 STENCILS

A. Stencils: Prepared with letter sizes according to ASME A13.1 for piping; minimum letter height of 1-1/4 inches for ducts; and minimum letter height of 3/4 inch for access panel and door labels, equipment labels, and similar operational instructions.

1. Stencil Material: Aluminum.
2. Stencil Paint: Exterior, gloss, acrylic enamel black unless otherwise indicated. Paint may be in pressurized spray-can form.
3. Identification Paint: Exterior, acrylic enamel in colors according to ASME A13.1 unless otherwise indicated.

2.6 VALVE TAGS

A. Valve Tags: Stamped or engraved with 1/4-inch letters for piping system abbreviation and 1/2-inch numbers.

1. Tag Material: Brass, 0.032-inch minimum thickness, and having predrilled or stamped holes for attachment hardware.
2. Fasteners: Brass wire-link chain or S-hook.

B. Valve Schedules: For each piping system, on 8-1/2-by-11-inch bond paper, typed. Tabulate valve number, piping system, system abbreviation (as shown on valve tag), location of valve (room or space), normal-operating position (open, closed, or modulating), and variations for identification. Mark valves for emergency shutoff and similar special uses.

1. Valve-tag schedule shall be included in operation and maintenance data.
2. Valve-tag schedule shall be framed and mounted in the mechanical schedule.

2.7 ABOVE CEILING EQUIPMENT LOCATOR STICKERS

A. Provide ¾” diameter colored stickers on ceiling at equipment above ceilings as follows:

1. Fire, Smoke, and Fire/Smoke Dampers – RED

2. Air Terminal Devices – GREEN

3. Valves - ORANGE

B. For lay in ceilings locate stickers at nearest ceiling grid bar. Do not place sticker(s) on ceiling tile.

C. Provide typewritten chart of Above Ceiling Equipment location with 8-1/2x11 schematic of project area indicating location. Frame and place under clear glass. Hang in mechanical space or other location as designated by the Owner’s Representative and provide a hard copy to the Owner’ Representative.

2.8 WARNING TAGS

A. Warning Tags: Preprinted or partially preprinted, accident-prevention tags, of plasticized card stock with matte finish suitable for writing.

1. Size: 3 by 5-1/4 inches minimum
2. Fasteners: Brass grommet and wire.
3. Nomenclature: Large-size primary caption such as "DANGER," "CAUTION," or "DO NOT OPERATE."
4. Color: Yellow background with black lettering.

PART 3 - EXECUTION

3.1 PREPARATION

A. Clean piping and equipment surfaces of substances that could impair bond of identification devices, including dirt, oil, grease, release agents, and incompatible primers, paints, and encapsulants.

3.2 EQUIPMENT LABEL INSTALLATION

A. Install or permanently fasten labels on each major item of mechanical equipment. Major mechanical equipment shall include:

1. Air handling units
2. Fans
3. Unit heaters/cabinet unit heaters
4. Fire dampers, smoke dampers, combination fire/smoke dampers

B. Locate equipment labels where accessible and visible.

C. Coordinate naming convention of all equipment with the Owner and naming convention within the temperature control system. Tags on the contract documents may not accurately tag the equipment.

D. Install self-adhesive labels on uninsulated or lined ducts and stencils on ducts with external insulation. At each identification location, provide a flow direction arrow.

E. Lettering:

Duct Function	**Identification**
Supply Air	SA
Return Air	RA
Exhaust Air	EA
Outside Air	OA

F. Locate labels near points where ducts enter into concealed spaces and at maximum intervals of 50 feet in each space where ducts are exposed or concealed by removable ceiling system.

3.3 VALVE-TAG INSTALLATION

A. Install tags on valves and control devices in piping systems, except check valves; valves within factory-fabricated equipment units; shutoff valves; faucets; convenience hose connections; and HVAC terminal devices and similar roughing-in connections of end-use fixtures and units. List tagged valves in a valve schedule.

B. Valve-Tag Application Schedule: Tags shall be 1-1/2 inches round, natural brass, black lettering.

3.4 WARNING-TAG INSTALLATION

A. Write required message on, and attach warning tags to, equipment and other items where required.

END OF SECTION 230553

SECTION 233116 - NONMETAL DUCTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:
   1. Rigid Closed Cell Outdoor Ductwork.

B. Related Sections:

   1. Section 230593 "Testing, Adjusting, and Balancing for HVAC" for testing, adjusting, and balancing requirements for nonmetal ducts.
   2. Section 233113 "Metal Ducts" for single- and double-wall, rectangular and round ducts.
   3. Section 233300 "Air Duct Accessories" for dampers, duct-mounting access doors and panels, turning vanes, and flexible ducts.

1.3 PERFORMANCE REQUIREMENTS

A. Duct construction, including duct closure, reinforcements, and hangers and supports, shall comply with SMACNA's "Fibrous Glass Duct Construction Standards" and performance requirements and design criteria indicated.

   1. Static-Pressure Classes:

      a. Supply Ducts (Positive Pressure): 2-inch wg.
      b. Return Ducts (Negative Pressure): 2-inch wg.
      c. Exhaust Ducts (Negative Pressure): 2-inch wg.

B. Structural Performance: Duct hangers and supports and restraints shall withstand the effects of gravity loads and stresses within limits and under conditions to comply with New York State Building Codes.

C. Airstream Surfaces: Surfaces in contact with the airstream shall comply with requirements in ASHRAE 62.1.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of the following products:
   1. Rigid Closed Cell Outdoor Ductwork materials.

B. Shop Drawings:

1. Fabrication, assembly, and installation, including plans, elevations, sections, components, and attachments to other work.
2. Duct layout indicating sizes and pressure classes.
3. Elevation of top of ducts.
4. Dimensions of main duct runs from building grid lines.
5. Fittings.
6. Reinforcement and spacing.
7. Seam and joint construction.
8. Penetrations through fire-rated and other partitions.
9. Equipment installation based on equipment being used on Project.
10. Hangers and supports, including methods for duct and building attachment and vibration isolation.

C. Delegated-Design Submittal:

1. Duct materials and thicknesses.
2. Joint and seam construction and sealing.
3. Reinforcement details and spacing.
4. Design Calculations: Calculations, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation for selecting hangers and supports.

1.5 INFORMATIONAL SUBMITTALS

A. Coordination Drawings: Plans, drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:

1. Duct installation in congested spaces, indicating coordination with general construction, building components, and other building services. Indicate proposed changes to duct layout.
2. Structural members to which duct will be attached.
3. Penetrations of smoke barriers and fire-rated construction.
4. Items penetrating finished ceiling including the following:

    a. Lighting fixtures.
    b. Air outlets and inlets.
    c. Speakers.
    d. Sprinklers.
    e. Access panels.
    f. Perimeter moldings.

B. Welding certificates.

C. Field quality-control reports.

1.6 QUALITY ASSURANCE

A. Welding Qualifications: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code - Steel," for hangers and supports, AWS D1.2/D1.2M, "Structural Welding Code - Aluminum," for aluminum supports.

B. Welding Qualifications: Qualify procedures and personnel according to the following:

1. AWS D1.1/D1.1M, "Structural Welding Code - Steel," for hangers and supports.
2. AWS D1.2/D1.2M, "Structural Welding Code - Aluminum," for aluminum supports.

C. ASHRAE Compliance: Applicable requirements in ASHRAE 62.1, Section 5 - "Systems and Equipment" and Section 7 - "Construction and System Start-up."

D. ASHRAE/IESNA Compliance: Applicable requirements in ASHRAE/IESNA 90.1, Section 6.4.4 - "HVAC System Construction and Insulation."

E. NFPA Compliance:

1. NFPA 90A, "Installation of Air Conditioning and Ventilating Systems."
2. NFPA 90B, "Installation of Warm Air Heating and Air Conditioning Systems."

PART 2 - PRODUCTS

2.1 RIGID CLOSED CELL OUTDOOR DUCTWORK

A. Manufacturers:

1. Thermaduct (Basis of Design)
2. Review alternate manufacturers with the Engineer for compliance with the specification.

B. Suitable for ductwork which is exposed to weather and does not exceed a continuous internal static pressure of 6” w.g. positive or negative or with a pressure test rating over 10” w.g. positive or negative.

C. Product:

1. The panel shall be manufactured of CFC-free closed cell rigid foam resin thermally bonded on both sides to a factory applied .001" (25 micron) aluminum foil facing reinforced with a fiberglass scrim. An added UV stable, IR reflective 1000-micron high impact resistant titanium infused vinyl is factory bonded using a full lamination process. The lamination process shall permanently bond the vinyl clad to the outer surfaces of the phenolic foam panel to provide a zero-permeability watertight barrier and to form a structurally insulated panel (SIP) in which to form duct segments. Processes that do not employ a full lamination process are not acceptable. Self-applied adhesives such as tapes, caulks or cladding that incorporate pressure sensitive or spray adhesives are not acceptable.

2. The thermal conductivity shall be no greater than 0.13BTU • in/Hr •ft2•°F (.018W/m•°C).

3. The density of the foam shall not be less than 3.5 pcf with a minimum compressive strength of 28 psi.

4. The panel is 1-3/4" thickness panel with R-12 (1.5 RSI) shall be utilized unless indicated otherwise on the print:

    a. Maximum Temperature: Continuous rating of 185 degrees F (70 deg C) inside ducts or ambient temperature surrounding ducts.

    b. Maximum Thermal Conductivity: 0.13 Btu x in./h x sq. ft. x deg F at 75 deg F mean temperature.

    c. Permeability: 0.00 perms maximum when tested according to ASTM E 96/E 96M, Procedure A.

    d. Antimicrobial Agent: Additive for antimicrobial shall not be used but instead, raw product must pass UL bacteria growth testing.

    e. Noise-Reduction Coefficient: 0.05 minimum when tested according to ASTM C 423, Mounting A.

    f. Required Markings: All interior duct liner shall bear UL label and other markings required by UL 181 on each full sheet of duct panel; UL ratings for internal closure materials.

    g. All insulation materials shall be closed cell with a closed cell content of >90%.

5. Closure Materials:

    a. V-Groove Adhesive: Silicone (interior only).

    b. UV stable 1000 micron high impact resistant titanium infused vinyl (exterior).

        1) Factory manufactured seamless corners for zero perms.

        2) Cohesive bonded over-lap at corner seam covers for zero perms.

        3) Water resistant titanium infused welded vinyl seams.

        4) Mold and mildew resistant.

    c. Polymeric Sealing System:

        1) Structural Membrane: Aluminum scrim with woven glass fiber with white, water resistant, mold and mildew resistant, UV stable vinyl clad applied. Low VOC Sealant.

        2) Minimum Seam Cover Width: 2 7/8" inches

d. Duct Connector: Factory manufactured galvanized 4-bolt flange.

6. Outdoor cladding:

a. Duct segments shall incorporate UV stable 1000 micron high impact resistant titanium infused vinyl which is introduced during the manufacturing process.

7. Flange coverings:

a. Flanges are field sealed airtight before flange covers are installed. Flange covering consists of the following: Foam tape insulation with molded 39 mil covers, Air gap (heating only application) with molded 39 mil covers.

8. Reinforcement:

a. Provide designed and built with adequate reinforcement to both; withstand air pressure forces from within the duct from blower pressure and shall be built to handle expected snow load for the location where the system is being installed. System will employ reinforcement system when both specified static pressure and duct sizes dictate the need. This is a factory installed system and no field installation of the reinforcement system is required.

9. Weight:

a. Assembled system shall have a weight of 0.86 lbs. per square foot to maximum weight of 2.7 lbs. per square foot. Hangers and tie-downs are to be detailed on the manufacturer's installing contractors detail drawings prior to installation but not exceeding 13' for duct girth <84" and 8' for duct girth >85" between hangers and designed to carry the weight and wind load of the ductwork.

2.2 HANGERS AND SUPPORTS

A. Hanger Rods for Noncorrosive Environments: Cadmium-plated steel rods and nuts.

B. Hanger Rods for Corrosive Environments: Electrogalvanized, all-thread rods or galvanized rods with threads painted with zinc-chromate primer after installation.

C. Strap and Rod Sizes: Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Table 5-1, "Rectangular Duct Hangers Minimum Size," and Table 5-2, "Minimum Hanger Sizes for Round Duct."

D. Steel Cables: ASTM A 492, stainless steel with end connections made of cadmium-plated steel assemblies with brackets, swivel, and bolts designed for duct hanger service; with an automatic-locking and clamping device.

E. Duct Attachments: Sheet metal screws, blind rivets, or self-tapping metal screws; compatible with duct materials.

F. Trapeze and Riser Supports: Steel shapes complying with ASTM A 36/A 36M.

PART 3 - EXECUTION

3.1 DUCT INSTALLATION

A. Install ducts with fewest possible joints.

B. Unless otherwise indicated, install ducts vertically and horizontally, and parallel and perpendicular to building lines.

C. Install ducts close to walls, overhead construction, columns, and other structural and permanent enclosure elements of building.

D. Install ducts with a clearance of 1 inch, plus allowance for insulation thickness.

E. Where ducts pass through non-fire-rated interior partitions and exterior walls and are exposed to view, cover the opening between the partition and duct or duct insulation with sheet metal flanges. Overlap openings on four sides by at least 1-1/2 inches.

F. Where ducts pass through fire-rated interior partitions and exterior walls, install fire dampers. Comply with requirements in Section 233300 "Air Duct Accessories" for fire and smoke dampers.

G. Protect duct interiors from the moisture, construction debris and dust, and other foreign materials. Comply with SMACNA's "IAQ Guidelines for Occupied Buildings Under Construction," Appendix G, "Duct Cleanliness for New Construction Guidelines."

H. Install rigid closed cell ductwork to comply manufacturer’s installation manual.

3.2 HANGER AND SUPPORT INSTALLATION

A. Building Attachments: Concrete inserts, powder-actuated fasteners, or structural-steel fasteners appropriate for construction materials to which hangers are being attached.

1. Install concrete inserts before placing concrete.
2. Install powder-actuated concrete fasteners after concrete is placed and completely cured.
3. Use powder-actuated concrete fasteners for standard-weight aggregate concretes or for slabs more than 4 inches thick.
4. Do not use powder-actuated concrete fasteners for lightweight-aggregate concretes or for slabs less than 4 inches thick.
5. Do not use powder-actuated concrete fasteners for seismic restraints.

B. Install upper attachments to structures. Select and size upper attachments with pull-out, tension, and shear capacities appropriate for supported loads and building materials where used.

3.3 FIELD QUALITY CONTROL

A. Perform tests and inspections.

B. Leakage Tests:

1. Comply with SMACNA's "HVAC Air Duct Leakage Test Manual." Submit a test report for each test.
2. Test the following systems:

    a. Ducts with a Pressure Class Higher Than 3-Inch wg: Test representative duct sections, selected by Engineer from sections installed, totaling no less than 25 percent of total installed duct area for each designated pressure class.
    b. Supply Ducts with a Pressure Class of 2-Inch wg or Higher: Test representative duct sections, selected by Engineer from sections installed, totaling no less than 50 percent of total installed duct area for each designated pressure class.
    c. Return Ducts with a Pressure Class of 2-Inch wg or Higher: Test representative duct sections, selected by Engineer from sections installed, totaling no less than 50 percent of total installed duct area for each designated pressure class.
    d. Exhaust Ducts with a Pressure Class of 2-Inch wg or Higher: Test representative duct sections, selected by Engineer from sections installed, totaling no less than 50 percent of total installed duct area for each designated pressure class.
    e. Outdoor Air Ducts with a Pressure Class of 2-Inch wg or Higher: Test representative duct sections, selected by Engineer from sections installed, totaling no less than 50 percent of total installed duct area for each designated pressure class.

3. Disassemble, reassemble, and seal segments of systems to accommodate leakage testing and for compliance with test requirements.
4. Test for leaks before applying external insulation.
5. Conduct tests at static pressures equal to maximum design pressure of system or section being tested. If static-pressure classes are not indicated, test entire system at maximum system design pressure. Do not pressurize systems above maximum design operating pressure. Give seven days' advance notice for testing.

C. Duct System Cleanliness Tests:

1. Visually inspect duct system to ensure that no visible contaminants are present.
2. Test sections of nonmetal duct system, chosen randomly by Owner, for cleanliness according to "Vacuum Test" in NADCA ACR, "Assessment, Cleaning and Restoration of HVAC Systems."

    a. Acceptable Cleanliness Level: Net weight of debris collected on the filter media shall not exceed 0.75 mg/100 sq. cm.

D. Duct system will be considered defective if it does not pass tests and inspections.

E. Prepare test and inspection reports.

3.4 DUCT CLEANING

A. Clean new and existing duct system(s) before testing, adjusting, and balancing.

B. Use service openings for entry and inspection.

1. Create new openings and install access panels appropriate for duct static-pressure class if required for cleaning access. Provide insulated panels for insulated or lined duct. Patch duct as recommended by duct manufacturer. Comply with Section 233300 "Air Duct Accessories" for access panels and doors.
2. Disconnect and reconnect flexible ducts as needed for cleaning and inspection.
3. Remove and reinstall ceiling to gain access during the cleaning process.

C. Particulate Collection and Odor Control:

1. When venting vacuuming system inside the building, use HEPA filtration with 99.97 percent collection efficiency for 0.3-micron-size (or larger) particles.
2. When venting vacuuming system to outdoors, use filter to collect debris removed from HVAC system, and locate exhaust downwind and away from air intakes and other points of entry into building.

D. Clean the following components by removing surface contaminants and deposits:

1. Air outlets and inlets (registers, grilles, and diffusers).
2. Supply, return, and exhaust fans including fan housings, plenums (except ceiling supply and return plenums), scrolls, blades or vanes, shafts, baffles, dampers, and drive assemblies.
3. Air-handling unit internal surfaces and components including mixing box, coil section, air wash systems, spray eliminators, condensate drain pans, humidifiers and dehumidifiers, filters and filter sections, and condensate collectors and drains.
4. Coils and related components.
5. Return-air ducts, dampers, actuators, and turning vanes except in ceiling plenums and mechanical equipment rooms.
6. Supply-air ducts, dampers, actuators, and turning vanes.
7. Dedicated exhaust and ventilation components and makeup air systems.

E. Mechanical Cleaning Methodology:

1. Use vacuum-collection devices that are operated continuously during cleaning. Connect vacuum device to downstream end of duct sections so areas being cleaned are under negative pressure.
2. Use mechanical agitation to dislodge debris adhered to interior duct surfaces without damaging integrity of ducts or duct accessories.
3. Clean fibrous-glass duct with HEPA vacuuming equipment; do not permit duct to get wet. Replace fibrous-glass duct that is damaged, deteriorated, or delaminated or that has friable material, mold, or fungus growth.
4. Clean coils and coil drain pans according to NADCA 1992. Keep drain pan operational. Rinse coils with clean water to remove latent residues and cleaning materials; comb and straighten fins.
5. Provide drainage and cleanup for wash-down procedures.
6. Antimicrobial Agents and Coatings: Apply EPA-registered antimicrobial agents if fungus is present. Apply antimicrobial agents according to manufacturer's written instructions after removal of surface deposits and debris.

3.5 START UP

A. Air Balance: Comply with requirements in Section 230593 "Testing, Adjusting, and Balancing for HVAC."

3.6 DUCT SCHEDULE

SERVICE	MATERIAL	SPECIAL REQUIREMENTS
Supply, Return, Vent, Relief, and Exhaust (located outside the building envelope)	Rigid Closed Cell Outdoor Ductwork	R-12

END OF SECTION 233116

SECTION 233723 - HVAC GRAVITY VENTILATORS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Louvered-penthouse ventilators.

1.3 PERFORMANCE REQUIREMENTS

A. Delegated Design: Design rooftop ventilator, roof curbs, and associated anchors including comprehensive engineering analysis signed and sealed by a qualified professional engineer, licensed in the project location state, responsible for their preparation. Design to include rooftop fan, roof curb, and all associated anchors and fastener performance requirements. Wind pressures are to be determined by delegated design engineer based on site specific wind criteria indicated below. All building attachments to be coordinated with existing structural conditions.

1. Detail fabrication and assembly of unit and roof curb.
2. Wind Design Loads:

B. Wind-Restraint Performance:

1. Ultimate Wind Speed: Based on Project Location.
2. Exposure Category: Based on Project Location.

C. Structural Performance: Equipment shall withstand the effects of gravity loads and stresses within limits and under conditions indicated according to ASCE/SEI 7.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product. For louvered-penthouse ventilators specified to bear AMCA seal, include printed catalog pages, showing specified models with appropriate AMCA Certified Ratings Seals.

B. Shop Drawings: For gravity ventilators.

1. Include plans, elevations, sections, details, ventilator attachments to curbs, and curb attachments to roof structure.

2. Show weep paths, gaskets, flashing, sealant, and other means of preventing water intrusion.

1.5 INFORMATIONAL SUBMITTALS

A. Coordination Drawings: Roof-framing plans and other details, drawn to scale, and coordinated with each other, based on input from installers of the items involved:

B. Welding certificates.

1.6 QUALITY ASSURANCE

A. Welding Qualifications: Qualify procedures and personnel according to the following:

1. AWS D1.2/D1.2M, "Structural Welding Code - Aluminum."
2. AWS D1.3/D1.3M, "Structural Welding Code - Sheet Steel."

1.7 COORDINATION

A. Coordinate sizes and locations of roof curbs, equipment supports, and roof penetrations with actual equipment provided.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Structural Performance: Ventilators shall withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated without permanent deformation of ventilator components, noise or metal fatigue caused by ventilator blade rattle or flutter, or permanent damage to fasteners and anchors. Wind pressures shall be considered to act normal to the face of the building.

1. Wind Loads: Determine loads based on load criteria as indicated on structural drawings per New York State Building Code.
2. Snow Load: Determine loads based on load criteria as indicated on structural drawings per New York State Building Code.

B. ASHRAE/IES 90.1 Compliance: Applicable requirements in ASHRAE/IES 90.1.

C. ASHRAE 62.1 Compliance: Section 5, "Systems and Equipment" and Section 7, "Construction and System Start-up."

D. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes, without buckling, opening of joints, overstressing of components, failure of connections, or other detrimental effects.

E. Water Entrainment: Limit water penetration through unit to comply with ASHRAE 62.1.

F. Capacities and Characteristics:

1. Refer to Schedule on Drawings.

2.2 FABRICATION

A. Factory or shop fabricate gravity ventilators to minimize field splicing and assembly. Disassemble units to the minimum extent as necessary for shipping and handling. Clearly mark units for reassembly and coordinated installation.

B. Fabricate frames, including integral bases, to fit in openings of sizes indicated, with allowances made for fabrication and installation tolerances, adjoining material tolerances, and perimeter sealant joints.

C. Fabricate units with closely fitted joints and exposed connections accurately located and secured.

D. Fabricate supports, anchorages, and accessories required for complete assembly.

E. Perform shop welding by AWS-certified procedures and personnel.

2.3 LOUVERED-PENTHOUSE VENTILATORS

A. Description: Multitier rectangular louvered penthouse for intake air.

B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Greenheck Fan Corporation.
2. Loren Cook Company.
3. Carnes.

C. Source Limitations: Obtain louvered-penthouse ventilators from single manufacturer.

D. Construction:

1. Material: Mechanically fastened assembly with 2 ¾-inch - deep louvers, mitered corners, and aluminum sheet roof. Penthouse will ship in section for field assembly.
2. Frame and Blade Material: Extruded aluminum, of thickness required to comply with structural performance requirements, but not less than 0.080 inch for frames and 0.080 inch for blades with condensate deflectors.
3. Insulation: ½” Mineral-fiber insulation and vapor barrier.
4. Exterior Corners: Prefabricated corner units with countersunk, stainless steel screws in each louver.
5. Bird Screening: Aluminum, 1/2”- square mesh x 0.06 diameter wire or flattened, expanded aluminum.

A. Roof Curbs: Galvanized steel; mitered and welded corners; 1-1/2-inch thick, rigid, fiberglass insulation adhered to inside wall. Size as required to suit roof opening and ventilator base.

1. Configuration: Self-flashing without a cant strip, with mounting flange.
2. Height: 18 inches above roof surface
3. Pitch Mounting: Manufacture curb for roof slope.

2.4 MATERIALS

A. Aluminum Extrusions: ASTM B 221, Alloy 6063-T5 or T-52.

B. Aluminum Sheet: ASTM B 209, Alloy 3003 or 5005, with temper as required for forming or as otherwise recommended by metal producer for required finish.

C. Galvanized-Steel Sheet: ASTM A 653/A 653M, G90 zinc coating, mill phosphatized.

D. Fasteners: Same basic metal and alloy as fastened metal or 300 Series stainless steel unless otherwise indicated. Do not use metals that are incompatible with joined materials.

1. Use types and sizes to suit unit installation conditions.
2. Use Phillips pan-head screws for exposed fasteners unless otherwise indicated.

E. Post-Installed Fasteners for Concrete and Masonry: Torque-controlled expansion anchors made from stainless-steel components, with capability to sustain without failure a load equal to 4 times the loads imposed for concrete, or 6 times the load imposed for masonry, as determined by testing according to ASTM E 488/E 488M, conducted by a qualified independent testing agency.

F. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D 1187/D 1187M.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Secure gravity ventilators to roof curbs with zinc-plated hardware that comply with the wind fastening requirements. Use concealed anchorages where possible.

B. Install perimeter reveals and openings of uniform width for sealants and joint fillers, as indicated.

C. Install concealed gaskets, flashings, joint fillers, and insulation as installation progresses. Comply with Section 079200 "Joint Sealants" for sealants applied during installation.

D. Label gravity ventilators according to requirements specified in Section 230553 "Identification for HVAC Piping and Equipment."

E. Protect galvanized and nonferrous-metal surfaces from corrosion or galvanic action by applying a heavy coating of bituminous paint on surfaces that will be in contact with concrete, masonry, or dissimilar metals.

F. Repair finishes damaged by cutting, welding, soldering, and grinding. Restore finishes, so no evidence remains of corrective work. Return items that cannot be refinished in the field to the factory, make required alterations, and refinish entire unit or provide new units.

3.2 CONNECTIONS

A. Duct installation and connection requirements are specified in Section 233113 "Metal Ducts" and Section 233116 "Nonmetal Ducts." Drawings indicate general arrangement of ducts and duct accessories.

3.3 ADJUSTING

A. Adjust damper linkages for proper damper operation.

END OF SECTION 233723

SECTION 235100 - BREECHINGS, CHIMNEYS, AND STACKS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:

1. Double-wall vent.

1.3 ACTION SUBMITTALS

A. Product Data: For the following:

1. Double wall vent
2. Guy wires and connectors.

B. Shop Drawings: For vents, breechings, chimneys, and stacks. Include plans, elevations, sections, details, and attachments to other work.

1. Detail equipment assemblies and calculations indicating dimensions, weights, loads, required clearances, methods of field assembly, components, hangers, and location and size of each field connection.

1.4 INFORMATIONAL SUBMITTALS

A. Welding certificates.

B. Warranty: Special warranty specified in this Section.

1.5 QUALITY ASSURANCE

A. Source Limitations: Obtain listed system components through one source from a single manufacturer.

B. Welding: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code--Steel," for hangers and supports and AWS D9.1/D9.1M, "Sheet Metal Welding Code," for shop and field welding of joints and seams in vents, breechings, and stacks.

C. Certified Sizing Calculations: Manufacturer shall certify venting system sizing calculations.

D. Tested and Listed by Underwriters Laboratories UL 1738/ULC S636

1.6 COORDINATION

A. Coordinate location of wall penetrations.

1.7 WARRANTY

A. The Manufacturer shall warrant the Positive Pressure Vent System against defects in material and workmanship for a period of 15 years from the date of original installation. Any portion of the vent repaired or replaced under the warranty shall be warranted for the remainder of the original warranty period.

PART 2 - PRODUCTS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Heat-Fab, Inc- Saf- T vent CI plus.
2. Metal-Fab, Inc.
3. Schebler Chimney Systems.

B. The vent shall be of the double wall, factory built type, designed for use in conjunction with Category I, II, III or IV condensing or non-condensing gas fired appliances or as specified by the heating equipment manufacturer.

C. Maximum continuous flue gas temperature shall not exceed 550 degree F.

D. Vent shall be listed for a maximum positive pressure rating of 6” w.c. and shall have passed at 35” w.c.

E. The vent system shall be continuous from the appliance’s flue outlet to the vent termination outside the building. All system components shall be UL / cUL listed and supplied from the same manufacturer.

F. The vent shall be constructed with an inner and outer tube, where the annular air space between the tubes is 1inch.

The inner tube (flue gas conduit) shall be constructed from AL29-4C® stainless steel, with a minimum wall thickness of .020” for 4” through 12” diameter vents.

The outer tube (jacket) shall be constructed from 441 stainless steel, with a minimum wall thickness of .020” for 4” through 10” diameter vents.

G. All system components such as vent supports, roof or wall penetrations, terminations, appliance connectors and drain fittings require to install the vent system shall be UL listed and provided by the vent manufacturer.

H. Vent layout shall be designed and installed in compliance with manufacturers installation instructions and all applicable local codes.

2.2 GUYING AND BRACING MATERIALS

A. Cable: Three galvanized, stranded wires of the following thickness:

1. Minimum Size: 1/4 inch in diameter.
2. For ID Sizes 4 to 15 Inches: 5/16 inch.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas and conditions for compliance with requirements for installation tolerances and other conditions affecting performance of work.

1. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 APPLICATION

A. Listed Double-Wall insulated vent: Gas-fired, Exhaust Vent.

3.3 INSTALLATION OF LISTED VENTS AND CHIMNEYS

A. Locate to comply with minimum clearances from combustibles and minimum termination heights according to product listing or NFPA 211, whichever is most stringent.

B. Seal between sections of positive-pressure vents according to manufacturer's written installation instructions, using sealants recommended by manufacturer.

C. Support vents at intervals recommended by manufacturer to support weight of vents and all accessories, without exceeding appliance loading.

D. Slope breechings down in direction of appliance, with condensate drain connection at lowest point piped to nearest drain through the condensate neutralization kit.

E. Lap joints in direction of flow.

F. Connect base section to foundation using anchor lugs of size and number recommended by manufacturer.

G. Join sections with acid-resistant joint cement to provide continuous joint and smooth interior finish.

H. Erect stacks plumb to finished tolerance of no more than 1 inch out of plumb from top to bottom.

I. Install insulated wall thimbles at exterior wall penetrations and uninsulated wall thimbles at interior wall penetrations. Install per manufacturers written instruction. Seal penetration with approved fire stop sealant on all sides.

J. The vent system shall be installed to maintain minimum clearance to combustibles as specified by the manufacturer.

K. Vent installation shall conform to the manufacturer's installation instructions, its UL listing and state /local codes

L. The vent system and breechings shall be inspected and cleaned before the final connection to the appliances

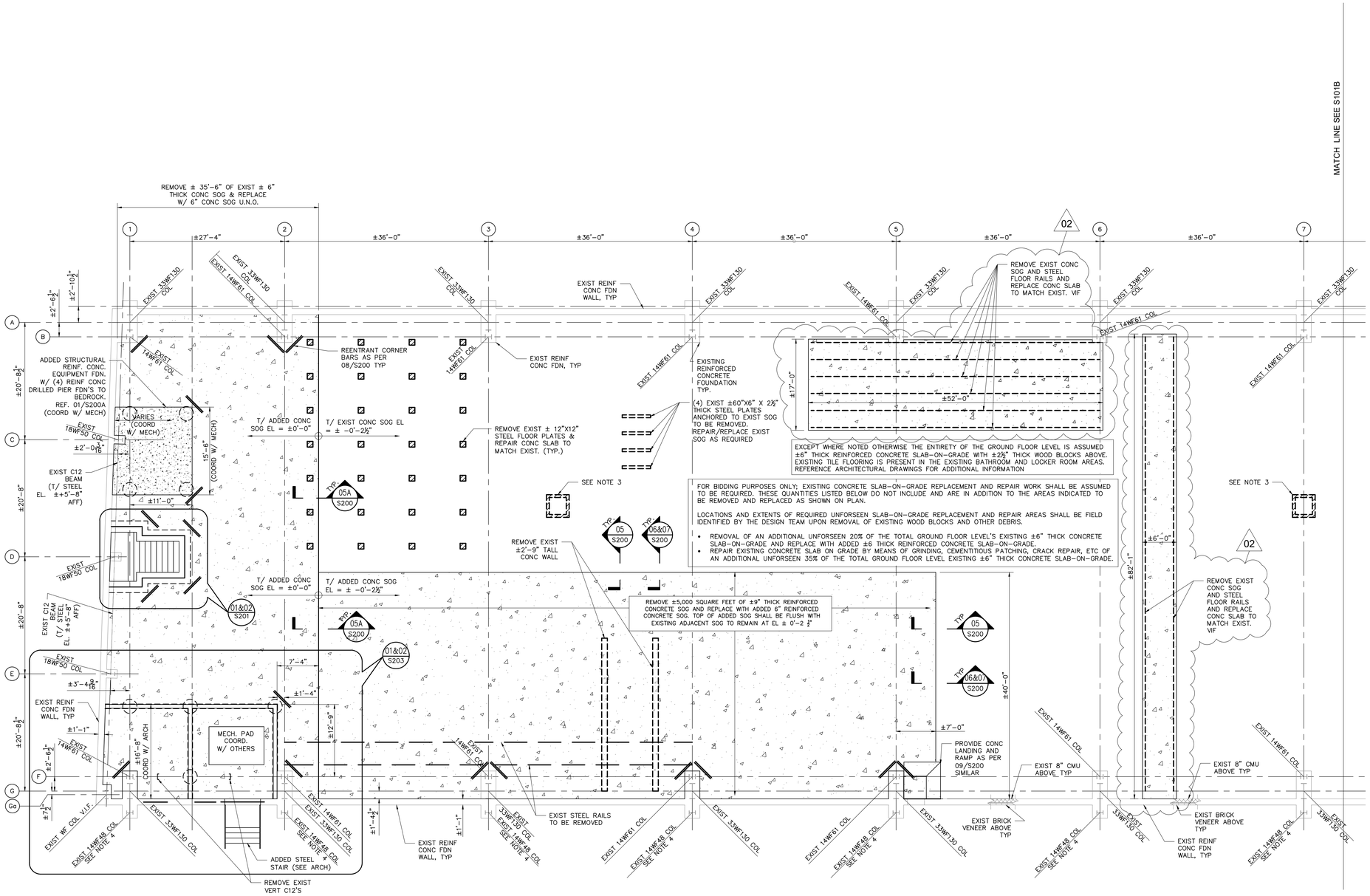
3.4 CLEANING

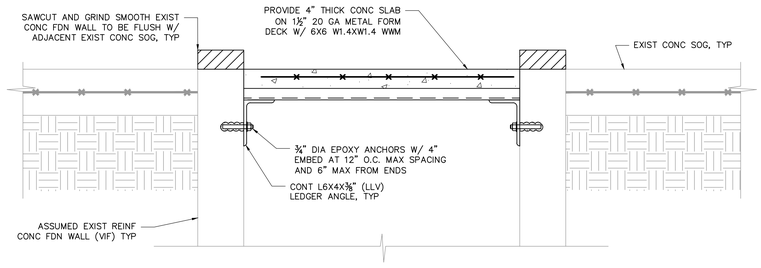
A. After completing system installation, including outlet fittings and devices, inspect exposed finish. Remove burrs, dirt, and construction debris and repair damaged finishes.

B. Clean breechings internally, during and after installation, to remove dust and debris. Clean external surfaces to remove welding slag and mill film. Grind welds smooth and apply touchup finish to match factory or shop finish.

C. Provide temporary closures at ends of breechings, chimneys, and stacks that are not completed or connected to equipment.

END OF SECTION 235100





02 S101A TYPICAL DETAIL AT STEEL PLATE REMOVAL - ASSUMED FLOOR PIT INFILL

SCALE: 1 1/2" = 1'-0"

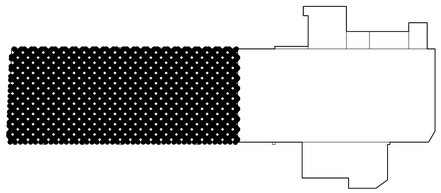
01 S101A PARTIAL FOUNDATION / GROUND FLOOR FRAMING PLAN - NORTH

SCALE: 1/8"=1'-0"

DATUM ELEVATION = +/-0'-0" WHICH CORRESPONDS TO THE EXISTING GROUND FLOOR FINISHED FLOOR ELEVATION (TOP OF EXISTING WOOD BLOCKS). POST CONSTRUCTION FINISHED FLOOR ELEVATION AT TOP OF EXISTING SLAB ON GRADE ELEVATION (+/-) 0'-0"-2½" U.N.O. (VERIFY IN FIELD).

NOTES:

1. ALL STRUCTURAL ELEMENTS SHOWN ARE EXISTING U.N.O.
2. ALL STRUCTURAL ELEMENTS SHOWN ARE BASED ON EXISTING DRAWINGS MADE AVAILABLE TO RE&LS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION.
3. EXISTING STEEL PLATE ASSUMED FLOOR HATCH COVER WELDED CLOSED WITH CONCRETE CURB AROUND. REMOVE STEEL HATCH AND CONCRETE CURB AND INFILL VOID WITH COMPACTED STRUCTURAL GRANULAR FILL AND 6" THICK REINFORCED CONCRETE SLAB-ON-GRADE. REFERENCE TYPICAL DETAIL 02/S101A.
4. REMOVE EXISTING COATINGS AND PROVIDE CORROSION RESISTANT COATING AT EXISTING EXTERIOR 14WF48 COLUMN. REFERENCE STRUCTURE STEEL NOTES 15, 16 & 17/S000.



N KEY PLAN

BUDC
Buffalo Urban Development Corporation
Hon. Christopher P. Scanlon, Chairman

BUFFALO URBAN DEVELOPMENT CORPORATION
631 NORTHLAND AVE.
BUFFALO, NY 14211

INDUSTRIAL MANUFACTURING BUILDING

ISSUED FOR BID

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237 Main Street, Suite 500
Buffalo, NY 14202
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p:716.688.0766 tf:877.293.6335
Wendel WD Architecture, Engineering, Surveying and Landscape Architecture, P.C

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DOUGLAS SCOTT WEBER — STATE OF NEW YORK — 110518 — LICENSED PROFESSIONAL ENGINEER

EXPIRATION DATE: 09/30/2027

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NO.	REVISIONS	DATE
02	ADDENDUM #2	10/17/2025
01	ISSUED FOR PERMIT	10/01/2025
00	ISSUED FOR BID	10/01/2025

DWG. TITLE

PARTIAL FOUNDATION / GROUND FLOOR FRAMING PLAN - NORTH

0 1" 2"
GENERIC SCALE BAR
SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING. IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY.

DATE 06/27/25
SCALE
DWN. DSW CHK. TFW
PROJ. No. 432607
DWG. No.

S101A

SECTION 03 41 00 PRECAST CONCRETE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work specified in this section.

1.2 SUMMARY

A. This Section includes structural precast concrete, including the following:
   1. 2” Precast Structural Roof Planks

B. Related Sections (the following Sections contain requirements that relate to this Section)
   1. Cast-in-Place Concrete - Section 03 30 00

1.3 PERFORMANCE REQUIREMENTS

A. Structural Performance: Provide precast structural concrete units and connections capable of withstanding design loads within limits and under conditions indicated.

B. Structural Performance: Provide precast structural concrete units and connections capable of withstanding the following design loads within limits and under conditions indicated:
   1. Span: 6’-0” minimum with 2-span condition
   2. Live Loads: 20 PSF
   3. Snow Load: Ground (Pg) – 50 PSF
      Flat Roof (Pf) – 47 PSF

1.4 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Design Mixes: For each concrete mix.

C. Shop Drawings: Detail fabrication and installation of precast structural concrete units. Indicate member locations, plans, elevations, dimensions, shapes, cross sections, openings, and types of reinforcement, including special reinforcement.
   1. Indicate welded connections by AWS standard symbols. Detail loose and cast-in hardware, inserts, connections, and joints, including accessories.
   2. Indicate locations and details of anchorage devices to be embedded in other construction.
   3. Comprehensive engineering analysis signed and sealed by the qualified professional engineer registered in the State of New York responsible for its preparation.

D. Welding Certificates: Copies of certificates for welding procedures and personnel.

E. Material Test Reports: From a qualified testing agency indicating and interpreting test results of the following for compliance with requirements indicated. Material test reports are not required from PCI-Certified plants. However test reports must be retained for audit.

1.5 QUALITY ASSURANCE

A. Comply with provisions of following codes, specifications and standards, except as otherwise indicated.
   1. New York State Building Code
   2. ACI 301 "Standard Specifications for Structural Concrete".
   3. ACI 318 "Building Code Requirements for Structural Concrete".

4. PCI MNL 116, "Manual for Quality Control for Plants and Production of Precast Concrete Products".

B. Installer Qualifications: An experienced installer who has completed a minimum of 5 years of precast structural concrete work experience that is similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

C. Fabricator Qualifications: A firm that complies with the following requirements and is experienced in manufacturing precast structural concrete units similar to those indicated for this Project and with a record of successful in-service performance.
1. Assumes responsibility for engineering precast structural concrete units to comply with performance requirements. This responsibility includes preparation of Shop Drawings and comprehensive engineering analysis by a qualified Professional Engineer.
2. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in the State of New York and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of precast structural concrete that are similar to those indicated for this Project in material, design, and extent.
3. Participates in PCI's Plant Certification program and is designated a PCI-certified plant for Group C, Category C1. ADDENDUM #02 10-17-2025
4. Has sufficient production capacity to produce required units without delaying the Work.

D. Design Standards: Comply with ACI 318 (ACI 318M) and the design recommendations of PCI MNL 120, "PCI Design Handbook--Precast and Prestressed Concrete."

E. Quality-Control Standard: For manufacturing procedures and testing requirements, quality control recommendations, and camber and dimensional tolerances for types of units required, comply with PCI MNL 116, "Manual for Quality Control for Plants and Production of Precast and Prestressed Concrete Products."

F. Welding: Qualify procedures and personnel according to AWS D1.1, "Structural Welding Code--Steel"; and AWS D1.4, "Structural Welding Code--Reinforcing Steel."

1.6 DELIVERY, STORAGE AND HANDLING

A. Deliver precast concrete units to the project site in such quantities and at such times to assure continuity of installation. Store units at the project site to ensure against cracking, distortion, staining, or other physical damage, and so that markings are visible. Lift and support units at designated lift points. Deliver anchorage items that are to be embedded in other construction before start of such work. Provide setting diagrams, templates instructions and directions as required for installation.

1.7 SEQUENCING

A. Furnish anchorage items to be embedded in other construction without delaying the Work. Provide setting diagrams, templates, instructions, and directions, as required, for installation.

PART 2 - PRODUCTS

2.1 REINFORCING MATERIALS

A. Reinforcing Bars: ASTM A615, Grade 60 or ASTM A706 weld able, unless otherwise indicated.

B. Supports for Reinforcement: Provide supports for reinforcement including bolsters, chairs, spacers and other devices for spacing, supporting and fastening reinforcing, complying with CRSI recommendations.

2.2 PRESTRESSING TENDONS

A. Uncoated, 7-wire stress-relieved strand complying with ASTM A 416. Use grade 250 or 270. Low-relaxation strand.

2.3 CONCRETE MATERIALS

A. Portland Cement: ASTM C150, Type I or Type Ill, of same type, and source.

B. Aggregates: ASTM C 33, and as herein specified. Provide aggregates from a single source for exposed concrete.

C. Lightweight Aggregates: ASTM C 330.

D. Water: Potable or free from foreign materials in amounts harmful to concrete and embedded steel.

E. Air-Entraining Admixture: ASTM C 260, certified by manufacturer to be compatible with other required admixtures.

F. Water-Reducing Admixture: ASTM C 494, Type A.

G. Retarding Admixture: ASTM C 494, Type B.

H. Water-Reducing and Retarding Admixture: ASTM C 494, Type D.

I. High-Range, Water-Reducing Admixture: ASTM C 494, Type F.

J. High-Range, Water-Reducing and Retarding Admixture: ASTM C 494, Type G.

K. Plasticizing Admixture: ASTM C 1017.

L. Fly Ash Admixture: ASTM C 618, Class F.

M. Metakaolin Admixture: ASTM C 618, Class N.

N. Silica Fume Admixture: ASTM C 1240.

2.4 STEEL CONNECTION MATERIALS

A. Carbon-Steel Shapes and Plates: ASTM A 36/A 36M.

B. Carbon-Steel Headed Studs: ASTM A 108, AISI 1018 through AISI 1020, cold finished; AWS D1.1, Type A or B, with arc shields.

C. Malleable Steel Castings: ASTM A 47 (ASTM A 47M).

D. Deformed-Steel Wire or Bar Anchors: ASTM A 496 or ASTM A 706/A 706M.

E. Carbon-Steel Bolts and Studs: ASTM A 307, Grade A (ASTM F 568M, Property Class 4.6); carbon-steel, hex-head bolts and studs; carbon-steel nuts; and flat, unhardened steel washers.

F. High-Strength Bolts and Nuts: ASTM A 325 (ASTM A 325M), Type 1, heavy hex steel structural bolts, heavy hex carbon-steel nuts, and hardened carbon-steel washers.

G. Shop-Primed Finish: Prepare surfaces of non-galvanized steel items, except those surfaces to be embedded in concrete, according to requirements in SSPC-SP 3 and shop-apply lead and chromate free, rust-inhibitive primer, complying with performance requirements in SSPC-Paint

25 according to SSPC-PA1.

H. Welding Electrodes: Comply with AWS standards.

I. Accessories: Provide clips, hangers, plastic shims, and other accessories required to install precast structural concrete units.

2.5 BEARING PADS

A. Provide bearing pads for precast structural concrete units as follows:
1. Elastomeric Pads: AASHTO M 251, plain, vulcanized, 100 percent polychloroprene (neoprene) elastomer, molded to size or cut from a molded sheet, 50 to 70 Shore A durometer, minimum tensile strength 2250 psi (15.5 MPa) per ASTM D 412.

2.6 CONCRETE MIXES

A. Normal-Weight Concrete: Proportion mixes by either laboratory trial batch or field test data methods according to ACI 211.1, with materials to be used on Project, to provide normal weight concrete with the following properties:
1. Compressive Strength (28 Days): 5000 psi (34.5 MPa).
2. Maximum Water-Cementitious Materials Ratio: 0.40.
3. Add air-entraining admixture at manufacturer's prescribed rate to result in normal- weight concrete at point of placement having an air content as follows, with a tolerance of plus or minus 1-1/2 percent:
a. Air Content: 6 percent for 3/4-inch- (19-mm-) nominal maximum aggregate size.

2.7 GROUT MATERIALS

A. Cement Grout: Portland cement, ASTM C 150, Type 1, and clean, natural sand, ASTM C 144. Mix at ratio of 1.0 part cement to 2.5 parts sand, by volume with minimum water required for placement and hydration.

2.8 FABRICATION

A. Formwork: Accurately construct forms, mortar tight, of sufficient strength to withstand pressures due to concrete-placement operations and temperature changes and for pretensioning and detensioning operations. Maintain formwork to provide completed precast concrete units of shapes, lines, and dimensions indicated, within fabrication tolerances.
1. Coat surfaces of forms with bond-breaking compound before reinforcement is placed. Provide commercial-formula, form-coating compounds that will not bond with, stain, or adversely affect concrete surfaces and that will not impair subsequent treatments of concrete surfaces requiring bond or adhesion. Apply in compliance with manufacturer's written instructions.
2. Unless forms for precast, prestressed concrete units are stripped before detensioning, design forms so stresses are not induced in precast concrete units because of deformation or movement of concrete during detensioning.

B. Built-in Anchorages: Accurately position built-in anchorage devices and secure to formwork. Locate anchorages where they do not affect position of main reinforcement or concrete placement. Do not relocate bearing plates in units unless approved by Architect.

C. Cast-in openings larger than 10 inches (250 mm) in diameter or 10 inches (250 mm) square according to Shop Drawings. Smaller holes may be field cut by trades requiring them, as approved by Architect.

D. Reinforcement: Comply with recommendations in CRSI's "Manual of Standard Practice" for fabricating, placing, and supporting reinforcement.

1. Clean reinforcement of loose rust and mill scale, earth, and other materials that reduce or destroy the bond with concrete.
2. Accurately position, support, and secure reinforcement against displacement by formwork, construction, or concrete-placement operations. Locate and support reinforcement by metal chairs, runners, bolsters, spacers, and hangers, as required.
3. Place reinforcement to obtain at least the minimum coverage for concrete protection. Arrange, space, and securely tie bars and bar supports to hold reinforcement in position while placing concrete. Set wire ties so ends are directed into concrete, not toward exposed concrete surfaces.
4. Install welded wire fabric in lengths as long as practicable. Lap adjoining pieces at least one full mesh and lace splices with wire. Offset laps of adjoining widths to prevent continuous laps in either direction.

E. Prestress tendons for precast structural concrete units by either pretensioning or post-tensioning methods. Comply with PCI MNL 116.
1. Delay detensioning until concrete has reached at least 70 percent of its compressive strength as established by test cylinders cured under the same conditions as concrete.
2. If concrete has been heat cured, detension while concrete is still warm and moist to avoid dimensional changes that may cause cracking or undesirable stresses.
3. Detension pretensioned tendons either by gradually releasing tensioning jacks or by heat cutting tendons, using a sequence and pattern to prevent shock or unbalanced loading.

F. Mix concrete according to PCI MNL 116 and requirements in this Section. After concrete batching, no additional water may be added.

G. Place concrete in a continuous operation to prevent seams or planes of weakness from forming in precast concrete units. Comply with requirements in PCI MNL 116 for measuring, mixing, transporting, and placing concrete.

H. Thoroughly consolidate placed concrete by internal and external vibration without dislocating or damaging reinforcement and built-in items. Use equipment and procedures complying with PCI MNL 116.

I. Comply with ACI 306.1 procedures for cold-weather concrete placement.

J. Comply with ACI 305R recommendations for hot-weather concrete placement.

K. Identify pickup points of precast concrete units and orientation in structure with permanent markings, complying with markings indicated on Shop Drawings. Imprint casting date on each precast concrete unit on a surface that will not show in finished structure.

L. Cure concrete, according to requirements in PCI MNL 116, by moisture retention without heat or by accelerated heat curing using low-pressure live steam or radiant heat and moisture.

M. Product Tolerances: Fabricate precast structural concrete units straight and true to size and shape with exposed edges and corners precise and true so each finished unit complies with PCI MNL 116 product tolerances.

N. Finish formed surfaces of precast structural concrete as indicated for each type of unit, and as follows:
1. Standard Finish: Normal plant-run finish produced in forms that impart a smooth finish to concrete. Small surface holes caused by air bubbles, normal color variations, form joint marks, and minor chips and spalls will be tolerated. Major or unsightly imperfections, honeycombs, or structural defects are not permitted.
2. Commercial Finish: Remove fins and large protrusions and fill large holes. Rub or grind

ragged edges. Faces are to be true, well-defined surfaces.

O. Recess prestressing tendons a minimum of 1/2 inch (13 mm), fill recesses with grout, and apply a sack finish to vertical ends of precast concrete units.

2.9 2" ROOF PLANK UNITS

A. Precast prestressed concrete units with open voids running full length of slabs, produced under a rigid factory-inspected process acceptable to Architect.

B. Furnish units which are free of voids or honeycombs, with straight true edges and surfaces.

C. Provide "Standard Finish" units unless otherwise indicated.

D. Manufacturer units of concrete materials which will provide a minimum 3500 psi compressive strength at time of initial prestress and a 28-day compressive strength of 5000 psi.

E. Adequately reinforce slab units to resist transporting and handling stresses. Field determine requirements and provide joints acceptable for added/replacement planks being located adjacent, and flush against, existing 2" precast roof planks such that structural integrity of the roof system's precast roof planks is maintained.

2.10 SOURCE QUALITY CONTROL

A. Strength of precast concrete units will be considered deficient if units fail to comply with PCI MNL 116 requirements, including the following:
1. Units fail to comply with compressive-strength test requirements.
2. Reinforcement and prestressed tendons of units do not comply with fabrication requirements.

B. Testing: If there is evidence that the strength of precast concrete units may be deficient or may not comply with PCI MNL 116 requirements, Owner will employ an independent testing agency to obtain, prepare, and test cores drilled from hardened concrete to determine compressive strength according to ASTM C 42.
1. A minimum of three representative cores will be taken from units of suspect strength, from locations directed by Architect.
2. Cores will be tested, after immersion in water, in a wet condition per ACI 301 if units will be wet under service conditions.
3. Cores will be tested in an air-dry condition per ACI 301 if units will be dry under service conditions.
4. Strength of concrete for each series of 3 cores will be considered satisfactory if the average compressive strength is equal to at least 85 percent of the 28-day design compressive strength and no single core is less than 75 percent of the 28-day design compressive strength.
5. Test results will be made in writing on the same day that tests are performed, with copies to Architect, Contractor, and precast concrete fabricator. Test reports will include the following:
   a. Project identification name and number.
   b. Date when tests were performed.
   c. Name of precast concrete fabricator.
   d. Name of concrete testing agency.
   e. Identification letter, name, and type of precast concrete unit or units represented by core tests; design compressive strength; type of break; compressive strength at break, corrected for length-diameter ratio; and direction of applied load to core in relation to horizontal plane of concrete as placed.

C. Patching: If core test results are satisfactory and precast concrete units comply with requirements, clean and dampen core holes and solidly fill with precast concrete mix that has no coarse aggregate, and finish to match adjacent precast concrete surfaces.

D. Dimensional Tolerances: Units with dimensions smaller or larger than required and not complying with tolerance limits may be subject to additional testing.
   1. Precast concrete units with dimensions larger than required will be rejected if the appearance or function of the structure is adversely affected or if larger dimensions interfere with other construction. Repair or remove and replace rejected units, as required, to comply with construction conditions.

E. Defective Work: Precast concrete units that do not comply with requirements, including strength, manufacturing tolerances, and finishes, are unacceptable. Replace with precast concrete units that comply with requirements.

PART 3 - EXECUTION

3.1 INSPECTION

A. Erector must examine supporting structure and conditions under which precast concrete work is to be erected, and notify Contractor in writing of conditions detrimental to proper and timely completion of work. Do not proceed with installation until unsatisfactory conditions have been corrected in a manner acceptable to Erector.

3.2 INSTALLATION, GENERAL

A. After precast concrete units have been placed and secured, grout open spaces at connections and joints with Cement Grout that has been determined to be acceptable to the certifying Engineer.

B. Bearing Pads: Install bearing pads as precast concrete units are being erected. Set pads on true, level, and uniform bearing surfaces and maintain in correct position until precast concrete units are placed.

C. Install precast structural concrete. Shore and brace precast concrete units to maintain location, stability, and alignment until permanent connections are installed.

D. Welding: Perform welding in compliance with AWS D1.1 and AWS D1.4, with qualified welders.
   1. Protect precast concrete units and bearing pads from damage by field welding or cutting operations and provide noncombustible shields as required.
   2. Repair damaged metal surfaces by cleaning and applying a coat of galvanized repair paint to galvanized surfaces.
   3. Repair damaged metal surfaces by cleaning and repriming damaged painted surfaces.

E. Fasteners: Do not use drilled or powder-actuated fasteners for attaching accessory items to precast, prestressed concrete units unless approved by Architect.

F. Erection Tolerances: Install precast concrete units level, plumb, square, and true, without exceeding the recommended erection tolerances in PCI MNL 127, "Recommended Practice for Erection of Precast Concrete."

G. Grouting Connections and Joints: After precast concrete units have been placed and secured, grout open spaces at keyways, connections, and joints as follows:
   1. Provide forms or other approved method to retain grout in place until hard enough to support itself. Pack spaces with stiff grout material, tamping until voids are completely

filled. Place grout to finish smooth, level, and plumb with adjacent concrete surfaces. Keep grouted joints damp for not less than 24 hours after initial set. Promptly remove grout material from exposed surfaces before it hardens.

3.3 ACCEPTANCE

A. All defective units shall be repaired by the precast supplier to meet satisfaction of the Architect / Engineer.

B. Units deemed "not repairable" shall be removed from the site and replaced at the cost of the precast manufacturer.

END OF SECTION 034100

SECTION 03 30 00 - CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes cast-in-place concrete, including formwork, reinforcement, concrete materials, mixture design, placement procedures, and finishes, for the following:

B. Section includes cast-in-place concrete, including formwork, reinforcement, concrete materials, mixture design, placement procedures, and finishes, for the following.

1. Footings
2. Foundation Walls
3. Slabs-on-grade and exterior equipment foundations.
4. Slabs on metal deck and interior floor infill.

C. Related Sections:

1. Section 03 10 00 “Concrete Formwork”.
2. Section 03 32 00 “Concrete Reinforcing”.
3. Section 31 63 29 – “Drilled Concrete Piers”

1.3 DEFINITIONS

A. Cementitious Materials: Portland cement alone or in combination with one or more of the following: blended hydraulic cement, fly ash and other pozzolans, ground granulated blast-furnace slag, and silica fume; subject to compliance with requirements.

1.4 SUBMITTALS

A. Submit an Environmental Product Declaration (EPD) from the manufacturer for concrete within this specification section, if available. A statement of the contractor’s good faith effort to obtain the EPD shall be provided if not available.

1. Manufacturer-provided EPDs must be Product Specific Type III (Third-Party Reviewed), in adherence with ISO 14025 *Environmental labels and declarations*, ISO 14044 *Environmental management – Life cycle assessment*, and ISO 21930 *Core rules for environmental product declarations of construction products and services.*

B. Product Data: For each type of product indicated.

C. Design Mixtures: For each concrete mixture. Submit alternate design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.

1. Indicate amounts of mixing water to be withheld for later addition at Project site.

D. Steel Reinforcement Shop Drawings: Placing drawings that detail fabrication, bending, and placement. Include bar sizes, lengths, material, grade, bar schedules, stirrup spacing, bent bar diagrams, bar arrangement, splices and laps, mechanical connections, tie spacing, hoop spacing, and supports for concrete reinforcement.

E. Construction Joint Layout: Indicate proposed construction joints required to construct the structure:

1. Location of construction joints is subject to approval of the Architect.

F. Qualification Data: For manufacturer.

G. Welding certificates.

H. Material Certificates: For each of the following, signed by manufacturers:

1. Cementitious materials.
2. Admixtures.
3. Steel reinforcement and accessories.
4. Waterstops
5. Curing compounds.
6. Bonding agents.
7. Adhesives.
8. Vapor retarders.
9. Joint-filler strips.
10. Repair materials.

I. Material Test Reports: For the following, from a qualified testing agency, indicating compliance with requirements:

1. Aggregates. Include service record data indicating absence of deleterious expansion of concrete due to alkali aggregate reactivity.
2. Provide 28-day compressive strength break test results fir each admixture in accordance with ACI.

J. Cold weather concrete placement procedures and adjusted concrete mix designs.

K. Hot weather concrete placement procedures and adjusted concrete mix designs.

1.5 QUALITY ASSURANCE

A. A.Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C 94/C 94M requirements for production facilities and equipment.

1. Manufacturer certified according to NRMCA's "Plant and Truck Certification Program”
2. All Portland Cement Concrete and/or Bituminous Concrete is to be delivered from automated batching plants as approved and listed by the New York State Department of Transportation

B. Personnel performing laboratory tests shall be ACI-certified Concrete Strength Testing Technician and Concrete Laboratory Testing Technician - Grade I. Testing Agency laboratory supervisor shall be an ACI-certified Concrete Laboratory Testing Technician - Grade II.

C. Source Limitations: Obtain each type or class of cementitious material of the same brand from the same manufacturer's plant, obtain aggregate from single source, and obtain admixtures from single source from single manufacturer.

D. Welding Qualifications: Qualify procedures and personnel according to AWS D1.4/D 1.4M, "Structural Welding Code - Reinforcing Steel."

E. ACI Publications: Comply with the following unless modified by requirements in the Contract Documents.

1. ACI 301, "Specifications for Structural Concrete," Sections 1 through 5, 1 through 5 and 7 “Lightweight Concrete”.
2. ACI 117, "Specifications for Tolerances for Concrete Construction and Materials."

1.6 DELIVERY, STORAGE, AND HANDLING

A. Steel Reinforcement: Deliver, store, and handle steel reinforcement to prevent bending and damage.

B. Waterstops: Store waterstops under cover to protect from moisture, sunlight, dirt, oil, and other contaminants.

PART 2 - PRODUCTS

2.1 FORM-FACING MATERIALS

A. Plywood, metal, or other approved panel materials.

B. Exterior-grade plywood panels, suitable for concrete forms, complying with PS 1, and as follows:

1. Structural 1, B-B or better; mill oiled and edge sealed.

C. Chamfer Strips: Wood, metal, PVC, or rubber strips, 3/4 by 3/4 inch, minimum

D. Form-Release Agent: Commercially formulated form-release agent that will not bond with, stain, or adversely affect concrete surfaces and will not impair subsequent treatments of concrete surfaces.

E. Form Ties: Factory-fabricated, removable or snap-off metal or glass-fiber-reinforced plastic form ties designed to resist lateral pressure of fresh concrete on forms and to prevent spalling of concrete on removal.

1. Furnish units that will leave no corrodible metal having less than 1 inch cover to the plane of exposed concrete surface.
2. Furnish ties that, when removed, will leave holes no larger than 1 inch in diameter in concrete surface.
3. Furnish ties with integral water-barrier plates to walls indicated to receive dampproofing or waterproofing.

2.2 STEEL REINFORCEMENT

A. Recycled Content of Steel Products: Postconsumer recycled content plus one-half of pre-consumer recycled content not less than 60 percent.

B. Reinforcing Bars: ASTM A 615/A 615M, Grade 60, deformed.

C. Weldable Reinforcing Bars: ASTM A 706/A 706M, deformed.

D. Plain-Steel Wire: ASTM A1064/A1064M, as drawn.

E. Plain-Steel Welded Wire Reinforcement: ASTM A 185/A 185M, plain, fabricated from as-drawn steel wire into flat sheets.

2.3 REINFORCEMENT ACCESSORIES

A. Bar Supports: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars and welded wire reinforcement in place. Manufacture bar supports from steel wire, plastic, or precast concrete according to CRSI's "Manual of Standard Practice," of greater compressive strength than concrete and as follows:

1. For concrete surfaces exposed to view where legs of wire bar supports contact forms, use CRSI Class 1 plastic-protected steel wire or CRSI Class 2 stainless-steel bar supports.

2.4 CONCRETE MATERIALS

A. Cementitious Material: Use the following cementitious materials, of the same type, brand, and source, throughout Project:

1. Portland Cement: ASTM C 150, Type I or Type II. Supplement with the following:

a. Fly Ash: ASTM C 618, Class F.

b. Ground Granulated Blast-Furnace Slag: ASTM C 989, Grade 100 or 120.

B. Silica Fume: ASTM C 1240, amorphous silica.

C. Normal-Weight Aggregates: ASTM C 33, Class 3S coarse aggregate or better, graded. Provide aggregates from a single source with documented service record data of at least 10 years' satisfactory service in similar applications and service conditions using similar aggregates and cementitious materials.

1. Maximum Coarse-Aggregate Size: 3/4" inch

a. Fine Aggregate: Free of materials with deleterious reactivity to alkali in cement.

D. Lightweight Aggregate: ASTM C 330, 3/8-inch nominal maximum aggregate size.

E. Water: ASTM C 94/C 94M and potable.

2.5 ADMIXTURES

A. Air-Entraining Admixture: ASTM C 260.

B. Add acceptable admixtures as recommended in ACI 211.1 and at rates recommended by manufacturer. For concrete at slab depressions to receive moisture sensitive finishes use VL2020 admixture or equivalent. This applies for floor slabs only. Concrete testing shall be a surface test.

C. Chemical Admixtures: Provide admixtures certified by manufacturer to be compatible with other admixtures and that will not contribute water-soluble chloride ions exceeding those permitted in hardened concrete. Do not use calcium chloride or admixtures containing calcium chloride.

1. Water-Reducing Admixture: ASTM C 494/C 494M, Type A.
2. High-Range, Water-Reducing Admixture: ASTM C 494/C 494M, Type F.
3. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
   a. Euclid Chemical Company (The), an RPM company.
   b. Grace Construction Products, W. R. Grace & Co.
   c. Sika Corporation.

PARAGRAPH 2.5.C.4 REMOVED
ADDENDUM #02 10/17/2025

2.6 BONDING AGENTS

A. Bonding Agent: ASTM C1059, Tye II, Apply bonding agent where freshly placed concrete is in contact with hardened or partially hardened concrete.

1. Eucoweld 2.0 (or equivalent)

2.7 WATERSTOPS

A. Flexible PVC Waterstops: CE CRD-C 572, for embedding in concrete to prevent passage of fluids through joints. Water stops shall be 6” minimum width center-bulb/ribbed type. Factory fabricate corners, intersections, and directional changes.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
   a. BoMetals, Inc.
   b. Greenstreak.
   c. Paul Murphy Plastics Company.
   d. Vinylex Corp.
   e. Profile: Ribbed with center bulb.

2.8 VAPOR RETARDERS

A. Sheet Vapor Retarder: ASTM E 1745, Class A. Include manufacturer's recommended adhesive or pressure-sensitive tape. All vapor retarder- type and installation methods shall meet or exceed the floor finish manufacturer’s requirements for moisture mitigation. All seams shall be lapped and sealed. Before installation proof of compaction of subbase is to be done with laser leveling, Final subbase is to be without ruts.

1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
   a. Fortifiber Building Systems Group; Moistop Ultra 15.
   b. Grace Construction Products, W. R. Grace & Co.; Florprufe 120.
   c. Meadows, W. R., Inc.; Perminator 15 mil.

d. Stego Industries, LLC; Stego Wrap 15 mil Class A.

2.9 MASONRY ANCHORS

A. Dovetail Anchor Slots: Hot-dip galvanized-steel sheet, not less than 0.034 inch (0.85 mm) thick, with bent tab anchors.

2.10 REPAIR MATERIALS

A. Repair Underlayment: Cement-based, polymer-modified, self-leveling product that can be applied in thicknesses from 1/8 inch and that can be feathered at edges to match adjacent floor elevations.

2.11 CONCRETE MIXTURES, GENERAL

A. Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, or both, according to ACI 301.

1. Use a qualified independent testing agency for preparing and reporting proposed mixture designs based on laboratory trial mixtures.

B. Cementitious Materials: Use fly ash, pozzolan, ground granulated blast-furnace slag, and silica fume as needed to reduce the total amount of Portland cement, which would otherwise be used, by not less than 30 percent. Limit percentage, by weight, of cementitious materials other than Portland Cement in concrete as follows:

Fly Ash: 20 percent maximum.

1. Combined Fly Ash and Pozzolan: 25 percent.
2. Ground Granulated Blast-Furnace Slag: 20 percent.
3. Silica Fume: 10 percent.

C. Limit water-soluble, chloride-ion content in hardened concrete to 0.15 percent by weight of cement.

D. Admixtures: Use admixtures according to manufacturer's written instructions.

Use water-reducing high-range water-reducing or plasticizing admixture in concrete, as required and approved, for placement and workability.

2.12 CONCRETE MIXTURES FOR BUILDING ELEMENTS

A. Foundations, Foundation Walls, Slabs and stairs: Proportion normal-weight concrete mixture as follows:

1. Minimum Compressive Strength: 4000 psi at 28 days.
2. Minimum Cementitious Materials Content: 540 lb/cu. yd.
3. Slump Limit: 4 inches, plus or minus 1 inch.
4. Maximum Water-Cementitious Materials Ratio: 0.45.
5. Air Entrainment: 6 percent, plus or minus 1 percent for exterior exposed concrete subject to freeze-thaw.

6. The use of high early cement is not permitted.

2.13 WATERPROOFING HYRAULIC CEMENT

A. Provide rapid setting, high strength repair mortar for stopping leaks in concrete and masonry surfaces. Compressive strength of hydraulic mortars shall meet ASTM C109 and setting time of hydraulic cement shall meet ASTM C 191.

B. Rapid setting, high strength repair mortar for stopping leaks in concrete and masonry surfaces. Comply with the following:

C. Final setting time, ASTM C 191: Less than 5 minutes.

D. Compressive strength, ASTM C 109: 1000 psi @ 2 hours, 2500 psi @ 24 hours, 4500 psi @ 7 days and 5000 psi @ 28 days.

E. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

1. Sika Corporation
2. BASF
3. Water plug

2.14 FABRICATING REINFORCEMENT

A. Fabricate steel reinforcement according to CRSI's "Manual of Standard Practice."

2.15 CONCRETE MIXING

A. Ready-Mixed Concrete: Measure, batch, mix, and deliver concrete according to ASTM C 94/C 94M, and furnish batch ticket information.

1. When air temperature is between 85 and 90 deg F, reduce mixing and delivery time from 1-1/2 hours to 75 minutes; when air temperature is above 90 deg F, reduce mixing and delivery time to 60 minutes.
2. Concrete having temperature greater than 90 deg F shall be rejected for placement.

B. Conform to ACI 318 latest specification for hot weather and cold weather concreting.

PART 3 - EXECUTION

3.1 FORMWORK

A. Design, erect, shore, brace, and maintain formwork, according to ACI 301, to support vertical, lateral, static, and dynamic loads, and construction loads that might be applied, until structure can support such loads.

B. Construct formwork so concrete members and structures are of size, shape, alignment, elevation, and position indicated, within tolerance limits of ACI 117.

C. Fabricate forms for easy removal without hammering or prying against concrete surfaces.

D. Set edge forms, bulkheads, and intermediate screed strips for slabs to achieve required elevations and slopes in finished concrete surfaces. Provide and secure units to support screed strips; use strike-off templates or compacting-type screeds.

E. Provide temporary openings for cleanouts and inspection ports where interior area of formwork is inaccessible. Close openings with panels tightly fitted to forms and securely braced to prevent loss of concrete mortar. Locate temporary openings in forms at inconspicuous locations.

F. Chamfer exterior corners and edges of permanently exposed concrete.

G. Form openings, chases, offsets, sinkages, keyways, reglets, blocking, screeds, and bulkheads required in the Work. Determine sizes and locations from trades providing such items.

H. Retighten forms and bracing before placing concrete, as required, to prevent mortar leaks and maintain proper alignment.

I. Coat contact surfaces of forms with form-release agent, according to manufacturer's written instructions, before placing reinforcement.

3.2 EMBEDDED ITEMS

A. Place and secure anchorage devices and other embedded items required for adjoining work that is attached to or supported by cast-in-place concrete prior to placing concrete. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded. “Wet sticking” shall not be accepted.

Install anchor rods, accurately located, to elevations required and complying with tolerances in Section 7.5 of AISC's "Code of Standard Practice for Steel Buildings and Bridges.” Anchor rods shall be preset prior to concrete placement.

B. Install reglets to receive waterproofing and to receive through-wall flashings in outer face of concrete frame at exterior walls, where flashing is shown at lintels, shelf angles, and other conditions.

C. Install dovetail anchor slots in concrete structures as indicated. Temporarily fill or cover face opening of slots to prevent intrusion of concrete or debris.

3.3 REMOVING AND REUSING FORMS

A. General: Formwork for sides of beams, walls, columns, and similar parts of the Work that does not support weight of concrete may be removed after cumulatively curing at not less than 50 deg

3.4 VAPOR RETARDERS

A. Sheet Vapor Retarders: Place, protect, and repair sheet vapor retarder according to ASTM E 1643 and manufacturer's written instructions.

1. Lap joints 6 inches or as specified by Manufacturer and seal with manufacturer's recommended tape.

3.5 STEEL REINFORCEMENT

A. General: Comply with CRSI's "Manual of Standard Practice" for placing reinforcement.

1. Do not cut or puncture vapor retarder. Repair damage and reseal vapor retarder before placing concrete.
2. All concrete steel reinforcement shall be preset prior to concrete placement.

B. Clean reinforcement of loose rust and mill scale, earth, ice, and other foreign materials that would reduce bond to concrete.

C. Accurately position, support, and secure reinforcement against displacement. Locate and support reinforcement with bar supports to maintain minimum concrete cover. Do not tack weld crossing reinforcing bars.

D. Set wire ties with ends directed into concrete, not toward exposed concrete surfaces.

E. Install welded wire reinforcement in longest practicable lengths on bar supports spaced to minimize sagging. Lap edges and ends of adjoining sheets at least one mesh spacing. Offset laps of adjoining sheet widths to prevent continuous laps in either direction. Lace overlaps with wire. All welded wire reinforcement shall be preset prior to concrete placement.

3.6 JOINTS

A. General: Construct joints true to line with faces perpendicular to surface plane of concrete.

B. Construction Joints: Install so strength and appearance of concrete are not impaired, at locations indicated or as approved by Architect.

1. Place joints perpendicular to main reinforcement. Continue reinforcement across construction joints unless otherwise indicated. Do not continue reinforcement through sides of strip placements of floors and slabs.
2. Space vertical joints in walls as indicated. Locate joints beside piers integral with walls, near corners, and in concealed locations where possible.
3. Use a bonding agent at locations where fresh concrete is placed against hardened or partially hardened concrete surfaces.

C. Contraction Joints in Slabs-on-Grade: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of concrete thickness as follows:

1. Grooved Joints: Form contraction joints after initial floating by grooving and finishing each edge of joint to a radius of 1/8 inch. Repeat grooving of contraction joints after applying surface finishes. Eliminate groover tool marks on concrete surfaces.
2. Sawed Joints: Form contraction joints with power saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut 1/8-inch- wide joints into concrete when cutting action will not tear, abrade, or otherwise damage surface and before concrete develops random contraction cracks.

D. Isolation Joints in Slabs-on-Grade: After removing formwork, install joint-filler strips at slab junctions with vertical surfaces, such as column pedestals, foundation walls, grade beams, and other locations, as indicated.

1. Extend joint-filler strips full width and depth of joint, terminating flush with finished concrete surface unless otherwise indicated.
2. Terminate full-width joint-filler strips not less than 1/2 inch below finished concrete surface where joint sealants, specified in Section 079200 "Joint Sealants," are indicated.
3. Install joint-filler strips in lengths as long as practicable. Where more than one length is required, lace or clip sections together.
4. Sealed isolation joints shall be provided with backer rods as required to obtain the sealer manufacturer’s installation requirement.

3.7 WATERSTOPS

A. Flexible Waterstops: Install in construction joints and at other joints indicated to form a continuous diaphragm. Install in longest lengths practicable. Support and protect exposed waterstops during progress of the Work. Provide field welded fabricated joints in waterstops according to manufacturer's written instructions.

3.8 CONCRETE PLACEMENT

A. Before placing concrete, verify that installation of formwork, reinforcement, and embedded items is complete and that required inspections have been performed.

B. Do not add water to concrete during delivery, at Project site, or during placement unless approved by Architect and water/cement ratio of approved concrete mix design has not been exceeded.

C. Before test sampling and placing concrete, water may be added at Project site, subject to limitations of ACI 301 and the final product is compliant with the approved concrete mix design.

1. Do not add water to concrete after adding high-range water-reducing admixtures to mixture.

D. Deposit concrete continuously in one layer or in horizontal layers of such thickness that no new concrete will be placed on concrete that has hardened enough to cause seams planes of weakness or cold joints are created. If a section cannot be placed continuously, provide construction joints as indicated. Deposit concrete to avoid segregation. Maximum free drop of concrete shall be 4’-0” tremie chute methods shall be allowed.

1. Deposit concrete in horizontal layers of depth to not exceed formwork design pressures and in a manner to avoid inclined construction joints.
2. Consolidate placed concrete with mechanical vibrating equipment according to ACI 301.
3. Do not use vibrators to transport concrete inside forms. Insert and withdraw vibrators vertically at uniformly spaced locations to rapidly penetrate placed layer and at least 6 inches into preceding layer. Do not insert vibrators into lower layers of concrete that have begun to lose plasticity. At each insertion, limit duration of vibration to time necessary to consolidate concrete and complete embedment of reinforcement and other embedded items without causing mixture constituents to segregate.

E. Deposit and consolidate concrete for floors and slabs in a continuous operation, within limits of construction joints, until placement of a panel or section is complete.

1. Consolidate concrete during placement operations so concrete is thoroughly worked around reinforcement and other embedded items and into corners.
2. Maintain reinforcement in position on chairs during concrete placement.
3. Screed slab surfaces with a straightedge and strike off to correct elevations.
4. Slope surfaces uniformly to drains where required.
5. Begin initial floating using bull floats or darbies to form a uniform and open-textured surface plane, before excess bleedwater appears on the surface. Do not further disturb slab surfaces before starting finishing operations.

F. Cold-Weather Placement: Comply with ACI 306.1 and as follows (not inclusive). Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing actions, or low temperatures.
1. When average high and low temperature is expected to fall below 40 deg F for three successive days, maintain delivered concrete mixture temperature within the temperature range required by ACI 301.
2. Do not use frozen materials or materials containing ice or snow. Do not place concrete on frozen subgrade or on subgrade containing frozen materials.
3. Do not use calcium chloride, salt, or other materials containing antifreeze agents or chemical accelerators unless otherwise specified and approved in mixture designs.

G. Hot-Weather Placement: Comply with ACI 301 and as follows (not inclusive):
1. Maintain concrete temperature below 90 deg F at time of placement. Chilled mixing water or chopped ice may be used to control temperature, provided water equivalent of ice is calculated to total amount of mixing water. Using liquid nitrogen to cool concrete is Contractor's option.
2. Fog-spray forms, steel reinforcement, and subgrade just before placing concrete. Keep subgrade uniformly moist without standing water, soft spots, or dry areas.

H. Pumped concrete: Comply with ACI 304 and as follows:
1. Use only rigid lines minimum 5” diameter except where flexible end line sections are required for placement.
2. Concrete shall not be allowed to freefall greater than 4’-0” without Tremie Chute or equivalent.
3. Concrete samples for testing are to be taken from point of discharge.

3.9 FINISHING FORMED SURFACES

A. Rough-Formed Finish: As-cast concrete texture imparted by form-facing material with tie holes and defects repaired and patched. Remove fins and other projections that exceed specified limits on formed-surface irregularities.
1. Apply to concrete surfaces not exposed to public view.

B. Smooth-Formed Finish: As-cast concrete texture imparted by form-facing material, arranged in an orderly and symmetrical manner with a minimum of seams. Repair and patch tie holes and defects. Remove fins and other projections that exceed specified limits on formed-surface irregularities.
1. Apply to concrete surfaces exposed to public view.

C. Smooth-Rubbed Finish: Not later than one day after form removal, moisten concrete surfaces and rub with carborundum brick or another abrasive until producing a uniform color and texture. Do not apply cement grout other than that created by the rubbing process.

D. Related Unformed Surfaces: At tops of walls, horizontal offsets, and similar unformed surfaces adjacent to formed surfaces, strike off smooth and finish with a texture matching adjacent formed surfaces. Continue final surface treatment of formed surfaces uniformly across adjacent unformed surfaces unless otherwise indicated.

3.10 FINISHING FLOORS AND SLABS

A. General: Comply with ACI 302.1R recommendations for screeding, restraightening, and finishing operations for concrete surfaces. Do not wet concrete surfaces.

B. Adequate temporary lighting minimum 20-footcandels is required to be available for finishing operations and in place prior to commencing placing concrete.

C. Float Finish: Consolidate surface with power-driven floats or by hand floating if area is small or inaccessible to power driven floats. Restraighten, cut down high spots, and fill low spots. Repeat float passes and restraightening until surface is left with a uniform, smooth, granular texture.

1. Apply float finish to surfaces to receive trowel finish.
2. Trowel Finish: After applying float finish, apply first troweling and consolidate concrete by hand or power-driven trowel. Continue troweling passes and restraighten until surface is free of trowel marks and uniform in texture and appearance. Grind smooth any surface defects that would telegraph through applied coatings or floor coverings.
3. Apply a trowel finish to surfaces exposed to view or to be covered with resilient flooring, carpet, ceramic or quarry tile set over a cleavage membrane, paint, or another thin-film-finish coating system.

D. Trowel and Fine-Broom Finish: Apply a first trowel finish to surfaces where ceramic or quarry tile is to be installed by either thickset or thin-set method. While concrete is still plastic, slightly scarify surface with a fine broom.

1. Comply with flatness and levelness tolerances for trowel-finished floor surfaces.

E. Broom Finish: Apply a broom finish to exterior concrete platforms, steps, ramps, and elsewhere as indicated.

1. Immediately after float finishing, slightly roughen trafficked surface by brooming with fiber-bristle broom perpendicular to main traffic route. Coordinate required final finish with Architect before application.

F. Floor Flatness and Levelness Tolerances: For flatness and levelness tolerances of floor slabs refer to ACI 117. Testing shall be done in accordance with ASTM E1155, “Standard Test Methods for Determining F_F Floor Flatness and F_L Floor Levelness Numbers.” Contractor shall meet the floor flatness F-Numbers based on finish as follows:

1. Conventional Floors: Not suitable for applied finishes, such as utility rooms with exposed concrete floors.
   a. SOFF = 20
   b. SOFL = 15
2. Moderately Flat Floors: suitable for carpeted finishes.

a. $SOF_F = 25$

b. $SOF_L = 20$

3. Flat Floors: Suitable for tile, vinyl tile and similar finishes.

a. $SOF_F = 35$

b. $SOF_L = 25$

4. F-Numbers must be measured within 72 hours of placing the slab. If measurements are delayed, shrinkage, curling and other factors are outside of the contractor's control can influence the results.

5. Levelness tolerances only apply to slab-on-grade and suspended slabs which are shored prior to placing concrete with the shoring remaining in place until testing is complete.

6. When flatness or levelness tolerances are not met then the floor shall be ground or scarified and repoured to meet specifications.

3.11 MISCELLANEOUS CONCRETE ITEMS

A. Filling In: Fill in holes and openings left in concrete structures after work of other trades is in place unless otherwise indicated. Mix, place, and cure concrete, as specified, to blend with in-place construction. Provide other miscellaneous concrete filling indicated or required to complete the Work.

B. Equipment Bases and Foundations: Provide machine and equipment bases and foundations as shown on Drawings. Set anchor bolts for machines and equipment at correct elevations, complying with diagrams or templates from manufacturer furnishing machines and equipment.

3.12 CONCRETE PROTECTING AND CURING

A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection and ACI 301 for hot-weather protection during curing.

B. Evaporation Retarder: Apply evaporation retarder to unformed concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete, but before float finishing.

C. Formed Surfaces: Cure formed concrete surfaces, including underside of beams, supported slabs, and other similar surfaces. If forms remain during curing period, moist cure after loosening forms. If removing forms before end of curing period, continue curing for the remainder of the curing period.

D. Unformed Surfaces: Begin curing immediately after finishing concrete. Cure unformed surfaces, including floors and slabs, concrete floor toppings, and other surfaces.

E. Cure concrete according to ACI 308.1, by one or a combination of the following methods:

F. Moisture Curing: Keep surfaces continuously moist for not less than seven days with the following materials:

G. Water.

H. Continuous water-fog spray.

I. Absorptive cover, water saturated, and kept continuously wet. Cover concrete surfaces and edges with 12-inch lap over adjacent absorptive covers.

J. Moisture-Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover for curing concrete, placed in widest practicable width, with sides and ends lapped at least 12 inches, and sealed by waterproof tape or adhesive. Cure for not less than seven days. Immediately repair any holes or tears during curing period using cover material and waterproof tape.

1. Moisture cure or use moisture-retaining covers to cure concrete surfaces to receive floor coverings.

2. Cure concrete surfaces to receive floor coverings with either a moisture-retaining cover or a curing compound that the manufacturer certifies will not interfere with bonding of floor covering used on Project.

K. Curing Compound: Apply uniformly in continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Maintain continuity of coating and repair damage during curing period. Curing compound shall comply with ASTM C 309, Type 1, Class A & B.

3.13 CONCRETE SURFACE REPAIRS

A. Defective Concrete: Repair and patch defective areas when required by Architect. Remove and replace concrete that cannot be repaired and patched to Architect's approval.

B. Patching Mortar: Mix dry-pack patching mortar, consisting of one part Portland cement to two and one-half parts fine aggregate passing a No. 16 sieve, using only enough water for handling and placing.

C. Repairing Formed Surfaces: Surface defects include color and texture irregularities, cracks, spalls, air bubbles, honeycombs, rock pockets, fins and other projections on the surface, and stains and other discolorations that cannot be removed by cleaning.

1. Immediately after form removal, cut out honeycombs, rock pockets, and voids more than 1/2 inch in any dimension to solid concrete. Limit cut depth to 3/4 inch. Make edges of cuts perpendicular to concrete surface. Clean, dampen with water, and brush-coat holes and voids with bonding agent. Fill and compact with patching mortar before bonding agent has dried. Fill form-tie voids with patching mortar or cone plugs secured in place with bonding agent.

2. Repair defects on surfaces exposed to view by blending white Portland cement and standard Portland cement so that, when dry, patching mortar will match surrounding color. Patch a test area at inconspicuous locations to verify mixture and color match before proceeding with patching. Compact mortar in place and strike off slightly higher than surrounding surface.

3. Repair defects on concealed formed surfaces that affect concrete's durability and structural performance as determined by Architect.

D. Repairing Unformed Surfaces: Test unformed surfaces, such as floors and slabs, for finish and verify surface tolerances specified for each surface. Correct low and high areas. Test surfaces sloped to drain for trueness of slope and smoothness; use a sloped template.

1. Repair finished surfaces containing defects. Surface defects include spalls, popouts, honeycombs, rock pockets, crazing and cracks in excess of 0.01 inch wide or that

penetrate to reinforcement or completely through unreinforced sections regardless of width, and other objectionable conditions.

2. After concrete has cured at least 14 days, correct high areas by grinding.
3. Correct localized low areas during or immediately after completing surface finishing operations by cutting out low areas and replacing with patching mortar. Finish repaired areas to blend into adjacent concrete.
4. Correct other low areas scheduled to receive floor coverings with a repair underlayment. Prepare, mix, and apply repair underlayment and primer according to manufacturer's written instructions to produce a smooth, uniform, plane, and level surface. Feather edges to match adjacent floor elevations.
5. Repair random cracks and single holes 1 inch or less in diameter with patching mortar. Groove top of cracks and cut out holes to sound concrete and clean off dust, dirt, and loose particles. Dampen cleaned concrete surfaces and apply bonding agent. Place patching mortar before bonding agent has dried. Compact patching mortar and finish to match adjacent concrete. Keep patched area continuously moist for at least 72 hours.

E. Perform structural repairs of concrete, subject to Architect's approval, using epoxy adhesive and patching mortar.

F. Repair materials and installation not specified above may be used, subject to Architect's approval.

3.14 FIELD QUALITY CONTROL

A. Testing and Inspecting: Owner will engage a qualified testing and inspecting agency to perform field tests and inspections and prepare test reports.

B. Inspections:
1. Steel reinforcement placement.
2. Steel reinforcement welding.
3. Headed bolts, studs and deformed bar anchors.
4. Verification of use of required design mixture.
5. Concrete placement, including conveying and depositing.
6. Curing procedures and maintenance of curing temperature.
7. Verification of concrete strength before removal of shores and forms from beams and slabs.

C. Concrete Tests: Testing of composite samples of fresh concrete obtained according to ASTM C 172 shall be performed according to the following requirements: Samples shall be obtained as the concrete is delivered from the mixer to the conveying vehicles used to transport the concrete to the forms. All concrete test cylinders shall be field cured to match the condition of the concrete being placed.
1. Testing Frequency:
a. Obtain one composite sample for each day's pour of each concrete mixture exceeding 5 cu. yd., but less than 25 cu. yd., plus one set for each additional 50 cu. yd. or fraction thereof, and at least one set for each 5000 sq. ft. of surface area for slabs or walls to be field-cured. Lab-cured test cylinders shall be as directed by, and the responsibility of the contractor.

b. Obtain one additional composite sample for each day's pour of each concrete mixture to be field-cured.

2. Slump: ASTM C 143/C 143M; one test at point of placement for each composite sample, but not less than one test for each day's pour of each concrete mixture. Perform additional tests when concrete consistency at point of placement appears to change.

3. Air Content: ASTM C 231, pressure method, for normal-weight concrete; [ASTM C 173/C 173M, volumetric method, for structural lightweight concrete; one test for each composite sample, but not less than one test for each day's pour of each concrete mixture.one test for each composite sample at point of placement, but not less than one test for each day's pour of each concrete mixture.

4. Concrete Temperature: ASTM C 1064/C 1064M; one test hourly when air temperature is 40 deg F and below and when 80 deg F and above, and one test for each composite sample.

5. Unit Weight: ASTM C 567, fresh unit weight of structural lightweight concrete; one test for each composite sample, but not less than one test for each day's pour of each concrete mixture.

6. Compression Test Specimens:

   a. Cast and laboratory cure at least five standard cylinder specimens for each composite sample to be laboratory cured per ASTM C 192.

   b. Cast and field cure at least five standard cylinder specimens for each composite sample to be field cured per ASTM C 31.

   c. Contractor has the option to cast and cure additional cylinders to be either field or laboratory cured to hold for testing beyond 28 days should 28-day design compressive strength not be achieved by test breaks.

7. Compressive-Strength Tests: ASTM C 39

   a. For concrete mix design verification; Test one set of two laboratory-cured specimens at 7 days and one set of three laboratory-cured specimens at 28 days.

   b. All placed concrete test cylinders; Test one set of two field-cured specimens at 7 days, one set of three field-cured specimens at 28 days and one set for 56 days.

   c. A compressive-strength test shall be the average compressive strength from a set of specimens obtained from same composite sample and tested at age indicated.

8. When strength of field-cured cylinders is less than 85 percent of companion laboratory-cured cylinders, Contractor shall evaluate operations and provide corrective procedures for protecting and curing in-place concrete.

9. Strength of each concrete mixture will be satisfactory if every average of any three consecutive compressive-strength tests equals or exceeds specified compressive strength and no compressive-strength test value falls below specified compressive strength by more than 500 psi.

10. Test results shall be reported in writing to Architect, concrete manufacturer, and Contractor within 48 hours of testing. Reports of compressive-strength tests shall contain Project identification name and number, date of concrete placement, name of concrete testing and inspecting agency, location of concrete batch in Work, design compressive strength at 28 days, concrete mixture proportions and materials, compressive breaking strength, and type of break for both 7- and 28-day tests.

11. Nondestructive Testing: ACI Approved TRI Impact hammer, sonoscope, or other nondestructive device may be permitted by Architect but will not be used as sole basis for approval or rejection of concrete.
12. Additional Tests: Testing and inspecting agency shall make additional tests of concrete when test results indicate that slump, air entrainment, compressive strengths, or other requirements have not been met, as directed by Architect. Testing and inspecting agency may conduct tests to determine adequacy of concrete by cored cylinders complying with ASTM C 42/C 42M or by other methods as directed by Architect.
13. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.
14. Correct deficiencies in the Work that test reports and inspections indicate do not comply with the Contract Documents.

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END OF SECTION 033000

HVAC ABBREVIATIONS

AAV	AUTOMATIC AIR VENT
AC	AIR COMPRESSOR
ACCU	AIR COOLED CONDENSING UNIT
ACS DR	ACCESS DOOR
ACS PNL	ACCESS PANEL
ACV	AUTOMATIC CONTROL VALVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
AS	AIR SEPARATOR
ASC	ABOVE SUSPENDED CEILING
AVG	AVERAGE
BAV	BALANCING VALVE
BB-E	BASEBOARD - ELECTRIC
BFP	BACKFLOW PREVENTER
BFV	BUTTERFLY VALVE
BFWP	BOILER FEED WATER PUMP
BHP	BRAKE HORSEPOWER
BV	BALL VALVE
CA	COMPRESSED AIR
CA	COMBUSTION AIR
CEB	CONCRETE EQUIPMENT BASE
CFM	CUBIC FEET PER MINUTE
CHKV	CHECK VALVE
CHWP	CHILLED WATER CIRCULATING PUMP
CIR	CAST IRON RADIATOR
COM	COMMON
CRP	CONDENSATE RETURN PUMP
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CUV	CLASSROOM UNIT VENTILATOR
CV	CONTROL VALVE
DB	DRY BULB
DCI	DUCT COVERING INSULATION
DLI	DUCT LINING INSULATION
DSS	DUCTLESS SPLIT SYSTEM AIR CONDITIONER
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EDR	EQUIVALENT DIRECT RADIATION
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE
F	DEGREES FAHRENHEIT
FBO	FURNISHED BY OTHERS
FCU	FAN COIL UNIT
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FID	FIRE DAMPER
FSD	FIRE/SMOKE DAMPER
FTR	FINNED TUBE RADIATOR
FURN	FURNACE
GC	GENERAL CONTRACTOR
GLV	GLOBE VALVE
GPM	GALLONS PER MINUTE
GTV	GATE VALVE
GVTR	GAS VENT THROUGH ROOF
H	HUMIDIFIER
HC	HEATING COIL
HEX	HEAT EXCHANGER
HP	HORSEPOWER
HRU	HEAT RECOVERY UNIT
HSTAT	HUMIDISTAT
HV	HEATING AND VENTILATING UNIT
HWB	HOT WATER BOILER
HWCP	HOT WATER CIRCULATING PUMP
LAT	LEAVING AIR TEMPERATURE
LRI	LOUVERED ROOF INTAKE
LRV	LOUVERED ROOF VENT
LWT	LEAVING WATER TEMPERATURE
MAU	MAKE-UP AIR UNIT
MAV	MANUAL AIR VENT
MC	MECHANICAL CONTRACTOR
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O	OPEN
OA	OUTSIDE AIR
OC	ON CENTER
OED	OPEN ENDED DUCT
PC	PLUMBING CONTRACTOR
PLV	PLUG VALVE
PRV	PRESSURE REDUCING VALVE
PTAC	PACKAGE TERMINAL AIR CONDITIONER
RA	RETURN AIR
RAF	RETURN AIR FAN
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RLL	REFRIGERANT LIQUID LINE
RSL	REFRIGERANT SUCTION LINE
RTU	ROOF TOP UNIT
RV	ROOF VENT
SA	SUPPLY AIR
SD	SMOKE DAMPER
SF	SUPPLY FAN
SP	STATIC PRESSURE
STN	STRAINER
SUH	SUSPENDED UNIT HEATER
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
UH	UNIT HEATER
UV	UNIT VENTILATOR
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VIB ISO	VIBRATION ISOLATOR
WB	WET BULB
WC	WATER COLUMN
WCHRU	WATER CHILLER
WIV	WATER INLET VALVE
WPD	WATER PRESSURE DROP

HVAC SYMBOLS - DUCTWORK


AIRFLOW - SUPPLY/OUTDOOR AIR

AIRFLOW - RETURN/EXHAUST AIR



RECTANGULAR DUCTWORK (FIRST NUMBER INDICATES VISIBLE DIMENSION)



ROUND DUCTWORK



FLAT OVAL DUCTWORK

"L" INDICATES LINED DUCTWORK

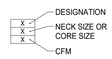
FLEXIBLE DUCTWORK


RECTANGULAR CEILING DIFFUSER (ARROWS INDICATE DIRECTION OF THROW)


RETURN/EXHAUST REGISTER OR GRILLE


LINEAR DIFFUSER


SIDEWALL DIFFUSER, REGISTER OR GRILLE



DIFFUSER, REGISTER OR GRILLE DESIGNATION
TYPE X INDICATES:
CD - CEILING DIFFUSER
LD - LINEAR DIFFUSER
RCD - RECTANGULAR CEILING DIFFUSER
EG - EXHAUST GRILLE
ER - EXHAUST REGISTER
RG - RETURN GRILLE
RR - RETURN REGISTER
TG - TRANSFER GRILLE)

WALL MOUNTED THERMOSTAT



WALL MOUNTED REMOTE SENSOR THERMOSTAT

WALL MOUNTED TEMPERATURE SENSOR

WALL MOUNTED HUMIDISTAT


RECTANGULAR/ROUND SUPPLY AIR DUCTWORK UP


RECTANGULAR/ROUND RETURN OR EXHAUST AIR DUCTWORK UP


RECTANGULAR/ROUND SUPPLY AIR DUCTWORK DOWN


RECTANGULAR/ROUND RETURN OR EXHAUST AIR DUCTWORK DOWN


RECTANGULAR ELBOW WITH TURNING VANES


VOLUME DAMPER



FIRE DAMPER



SMOKE DAMPER



MOTOR OPERATED DAMPER



SMOKE DETECTOR



DUCT MOUNTED SENSOR
X INDICATES:
SP - STATIC PRESSURE
T - TEMPERATURE
H - HUMIDITY
V - VELOCITY

HVAC SYMBOLS - CONTROLS


OPPOSED BLADE DAMPER



AVERAGING TEMPERATURE SENSOR

FREEZESTAT



PROBE TYPE TEMPERATURE SENSOR



SMOKE DETECTOR



HUMIDITY SENSOR


MOTOR STARTER

HEATING COIL



COOLING COIL



DIRECT EXPANSION REFRIGERANT COIL


FIRE DAMPER

SPACE THERMOSTAT

SPACE TEMPERATURE SENSOR

STATIC PRESSURE SENSOR


ROOM DIFFERENTIAL PRESSURE SENSOR


CIRCULATING PUMP


FAN

GENERAL NOTES

1. THIS LEGEND SHEET IS FOR THE HVAC CONTRACTOR REFERENCE ONLY. NOT ALL SYMBOLS AND/OR ABBREVIATIONS MAY APPLY TO THIS PARTICULAR PROJECT. ANY ADDITIONS OR OMISSIONS FROM THIS LEGEND SHEET DOES NOT IMPLY INCLUSION AND/OR EXCLUSION OF ANY PARTICULAR ITEM FROM THE PROJECT.
2. THE PLANS ARE DIAGRAMMATIC AND INDICATE ONLY THE SIZE AND GENERAL ARRANGEMENT OF PIPING AND EQUIPMENT. EXACT LOCATION OF ALL ELEMENTS SHALL BE DETERMINED AS WORK PROGRESSES, IN COOPERATION AND COORDINATION WITH THE WORK OF ALL OTHER TRADES. IT IS NOT INTENDED TO SHOW EVERY ITEM OF WORK OR MINOR PIECE OF EQUIPMENT, BUT THE CONTRACTOR SHALL FURNISH AND INSTALL WITHOUT ADDITIONAL REMUNERATION ANY COMPONENT NECESSARY TO COMPLETE THE SYSTEM IN ACCORDANCE WITH THE BEST PRACTICE OF THE TRADE.
3. ITEMS OF WORK OR EQUIPMENT SHOWN ON THE DRAWINGS ONLY, OR CALLED FOR IN THE SPECIFICATIONS ONLY, SHALL BE FURNISHED AND INSTALLED IN THE SAME MANNER AS IF THEY APPEARED ON BOTH THE DRAWINGS AND SPECIFICATIONS.
4. DRAWINGS DO NOT INDICATE ALL OFFSETS, CHANGES IN ELEVATIONS, ETC. WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL MAKE SUCH CHANGES IN PIPING AND LOCATION OF EQUIPMENT, ETC. TO ACCOMMODATE WORK WITH THAT OF OTHER CONTRACTORS.
5. INSTALL EQUIPMENT, DUCTWORK, AND PIPING TO AVOID INTERFERENCE WITH THE OPERATION OR SERVICING AND MAINTENANCE OF EQUIPMENT.
6. HVAC CONTRACTOR IS RESPONSIBLE TO PROVIDE ACCESS PANELS AND DOORS WHERE THEY ARE NEEDED TO GAIN ACCESS TO CONCEALED EQUIPMENT.
7. ALL COSTS FOR CUTTING, PATCHING AND PAINTING OF EXISTING WALLS, CEILINGS AND FLOORS TO ACCOMMODATE THE INSTALLATION OF HVAC WORK SHALL BE THE RESPONSIBILITY OF THE HVAC CONTRACTOR UNLESS INDICATED OTHERWISE. MATERIALS FOR RESTORATION OF EXISTING SURFACES SHALL MATCH THE EXISTING MATERIALS.
8. PIPES AND/OR DUCTS PENETRATING FIRE WALLS AND FLOORS SHALL BE FIRESTOPPED AS SPECIFIED. REFER TO THE ARCHITECTURAL DRAWINGS FOR FIRE WALL AND FLOOR LOCATIONS.
9. ALL DUCT SIZES SHOWN ON DRAWINGS INDICATE CLEAR INSIDE DIMENSIONS.
10. ALL PHYSICAL ATTRIBUTES OF EQUIPMENT AND DEVICES ARE BASED ON THOSE MANUFACTURERS LISTED IN THE SPECIFICATIONS AND/OR THE EQUIPMENT SCHEDULES. THE RESPECTIVE CONTRACTORS ARE RESPONSIBLE FOR ALL CHANGES BROUGHT ABOUT BY USE OF ITEMS BY OTHER MANUFACTURERS. THE ARCHITECT/ENGINEER HAS RESERVED THE RIGHT TO REJECT ITEMS BY OTHER MANUFACTURERS IF THOSE ITEMS DO NOT MATCH THE PHYSICAL ATTRIBUTES OF THE MANUFACTURERS LISTED.
11. COMPLY WITH THE NEW YORK STATE BUILDING CODES, ASHRAE 90.1-2016, AND OTHER APPLICABLE CODES.

SHOP/COORDINATION DRAWINGS:

CONTRACTOR SHALL PROVIDE TO THE ENGINEER CAD-GENERATED (AUTOCAD 2013 OR NEWER) COORDINATION DRAWINGS AT $\frac{1}{4}$" EQUALS 1 FOOT SCALE.

1. CONTRACTOR SHALL BE RESPONSIBLE TO:
   - A. FIELD VERIFY EXISTING CONDITIONS
   - B. PROVIDE LAYOUT OF ALL NEW EQUIPMENT, DUCTWORK (DOUBLE LINED) AND PIPING.
   - C. PROVIDE ELEVATIONS OF ALL DUCTWORK (TOP AND BOTTOM).
   - D. PROVIDE DIMENSIONS OF MAIN PIPE RUNS FROM BUILDING GRID LINES OR WALLS.
   - E. PENETRATIONS THROUGH FIRE-RATED AND OTHER PARTITIONS.
   - F. EQUIPMENT INSTALLATION BASED ON EQUIPMENT PURCHASED FOR PROJECT.

AIR ROTATION UNIT SCHEDULE (ARU-1)

PLAN DESIGNATION	MANUFACTURER MODEL NO.	SERVICE	CFM	T.S.P (IN WC)	SUPPLY FAN		MIN OA FLOW RATE (CFM)	NAT. GAS HEATING SECTION			ELECTRICAL DATA					NOTES
					E.S.P. (IN W.C.)	FAN SPEED (RPM)		INPUT (MBH)	OUTPUT (MBH)	TEMP RISE (F)	SUPPLY FAN HP	BHP	MCA	MOCP	VOLTS/ PHASE	
ARU-1	TITAN TAH-225 FC AAR VRH	FIRST FLOOR	40,000	1.975	0.375	576	6,250	1852	1500	34	30	24.4	54	90	480/3Ø	1,2,6,7
ARU-2	TITAN TAH-225 FC AAR VRH	FIRST FLOOR	40,000	1.975	0.375	576	N/A	1852	1500	34	30	24.4	54	90	480/3Ø	1-6,8

NOTES:
1. UNIT SHALL BE INDIRECT NATURAL GAS FIRED WITH 10:1 TURNDOWN CAPABILITY
2. PROVIDE 1" INSULATED WALL PANELS.
3. PROVIDE STAND FOR UNIT TO BE MOUNTED TO CONCRETE PAD. STAND SHALL BE RATED TO WITHSTAND WEIGHT AND WIND LOADS FOR EXTERIOR MOUNTING.
4. PROVIDE HEAT EXCHANGER BYPASS DAMPER FOR ECONOMIZER CONTROL.
5. PROVIDE LOW LEAKAGE MODULATING DAMPER ON EXHAUST AIR AND INTAKE AIR OPENINGS.
6. PROVIDE V-BANK STYLE FILTER ASSEMBLY WITH 2" MERV 8 FILTERS.
7. PROVIDE TOP OF UNIT PLENUM WITH 3-WAY TOP DISCHARGE DIFFUSER
8. PROVIDE 3-WAY SIDE DISCHARGE DIFFUSER
5. PROVIDE FACTORY CONTROLS TO MODULATE HEAT BASED ON SPACE TEMPERATURE. CONTROLLER SHALL MODULATE GAS HEAT SECTION TO MAINTAIN SPACE SET POINT. CONTROLLER SHALL BE ABLE TO MODULATE OUTDOOR AIR AND RETURN AIR DAMPERS FOR OUTDOOR UNIT TO PROVIDE VENTILATION DURING OCCUPIED HOURS. CONTROLLER SHALL ALSO BE ABLE TO CONTROL ECONOMIZER FOR OUTDOOR UNIT BASED ON OUTSIDE TEMPERATURE.

LOUVER SCHEDULE (L)

PLAN DESIGNATION	MANUFACTURER MODEL NO.	SERVICE	LOUVER DIMENSION (WXH)	AIR FLOW (CFM)	VELOCITY (FPM)	FREE AREA (SQ. FT.)	MATERIAL	PATTERN	FINISH	CONTROL DAMPER	NOTES
L-1	GREENHECK ESD-403	ELECTRICAL ROOM	36 X 42	2,500	500	5	ALUMINUM	HORIZONTAL	PAINT	D-2	1,2,3,4,5,6
L-2	GREENHECK ESD-403	WATER / FIRE PROTECTION	30 X 30	1,400	500	2.85	ALUMINUM	HORIZONTAL	PAINT	D-3	1,2,3,4,5,6
L-3	GREENHECK XG-4100	ARU	132 X 48	40,000	1200	41.6	ALUMINUM	HORIZONTAL	PAINT	D-1	1,3,4,5,6,7
L-4	GREENHECK ESD-403	EF-1	30 X 18	1,400	900	1.48	ALUMINUM	HORIZONTAL	PAINT	D-4	1,2,3,4,5,6
L-5	GREENHECK ESD-403	EF-2	36 X 24	2,500	900	2.78	ALUMINUM	HORIZONTAL	PAINT	D-5	1,2,3,4,5,6

NOTES:
1. ARCHITECT TO SELECT COLOR.
2. PROVIDE 1/2"X1/2" ALUMINUM BIRD SCREEN.
3. PROVIDE THERMALLY INSULATED, 2-POSITION MOTORIZED DAMPER AND ACTUATOR.
4. CAULK ALL SIDES WEATHER TIGHT.
5. CONTRACTOR SHALL FIELD VERIFY ALL WALL OPENINGS PRIOR TO ORDERING LOUVER.
6. LOUVER TO BE PROVIDED WITH OPTIONAL MOUNTING FLANGES ON ALL FOUR SIDES.
7. GRILLE SHALL BE MULTIPLE SECTIONS, INSTALL PER MANUFACTURERS INSTRUCTIONS.

EXHAUST FAN SCHEDULE (EF)

PLAN DESIGNATION	MANUFACTURER MODEL NO.	SERVICE	TYPE	AIR FLOW RATE (CFM)	EXTERNAL S.P. (IN. W.C)	FAN SPEED (RPM)	SONES	DRIVE TYPE	ELECTRICAL DATA			NOTES
									MOTOR BHP	MOTOR HP	VOLTS/ PHASE	
EF-1	GREENHECK SQ-120	WATER / FIRE PROTECTION	INLINE	1400	0.886	1725	18.7	DIRECT	.46	1/2	460 / 3Ø	1,2,&3
EF-2	GREENHECK SQ-140	ELECTRICAL ROOM	INLINE	2500	0.925	1725	18.2	DIRECT	1	1	460 / 3Ø	1,2,&3

NOTES:
1. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.
2. PROVIDE SMALL HOUSING WITH BACK DRAFT DAMPER.
3. PROVIDE INSULATED MOTORIZED DAMPER.

DAMPER SCHEDULE (D)

PLAN DESIGNATION	MANUFACTURER	MODEL	AIR FLOW RATE (CFM)	TYPE	OPENING SIZE	FRAME DEPTH (IN.)	SYSTEM	NOTES
D-1	GREENHECK	ICD-45	40,000	OPPOSED BLADE	106 X 36	1.5	ARU	1,2,3
D-2	GREENHECK	ICD-45	1,400	OPPOSED BLADE	42 X 36	1.5	L-1	1,2,3
D-3	GREENHECK	ICD-45	2,500	OPPOSED BLADE	30 X 30	1.5	L-2	1,2,3
D-4	GREENHECK	ICD-45	1,400	OPPOSED BLADE	30 X 18	1.5	L-4	1,2,3
D-5	GREENHECK	ICD-45	2,500	OPPOSED BLADE	36 X 24	1.5	L-5	1,2,3

NOTES:
1. DAMPERS SHALL BE PROVIDED WITH DUCT FLANGES
2. PROVIDE SPARE FUSIBLE LINK FOR EACH DAMPER
3. FINAL OPENING SIZES SHALL BE COORDINATED WITH APPROVED FAN, LOUVERS AND BUILDING OPENING DIMENSIONS

ELECTRICAL UNIT HEATER (EUH-1)

PLAN DESIGNATION	MANUFACTURER MODEL NO.	LOCATION	DIMENSIONS (LxWxH)	OUTPUT (Kw)	ELECTRICAL DATA		WEIGHT (LBS/FT)	NOTES
					VOLTS/ PHASE	AMPS		
EUH-1	TASKMASTER 5100 SERIES F2F5103	AS NOTED	6-1/2x14-15/32x17-3/4	3.3	208/1Ø	15.9	20	

NOTES:

GRAVITY VENTILATOR SCHEDULE (GV)

PLAN DESIGNATION	MANUFACTURER MODEL NO.	LOCATION	AIR FLOW RATE (CFM)	STATIC PRESSURE (IN. WG)	THROAT LENGTH/WIDTH (IN)	THROAT VELOCITY (FPM)	CURB CAP LENGTH/ WIDTH (IN)	FREE AREA (SF)	WEIGHT (LB)	NOTES
GV-1	GREENHECK WRH	ROOF	7,000	.125	28 X 40	900	48 X 48	7.80	167	1

NOTES:
1. PROVIDE CURB ADAPTER

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DWG. TITLE

SYMBOLS, NOTES & ABBREVIATIONS

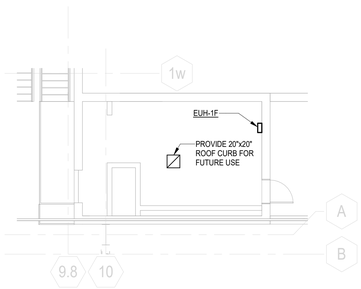
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DATE 06/27/25
SCALE
DWN. WJH CHK. JTW
PROJ. No. 432607
DWG. No.

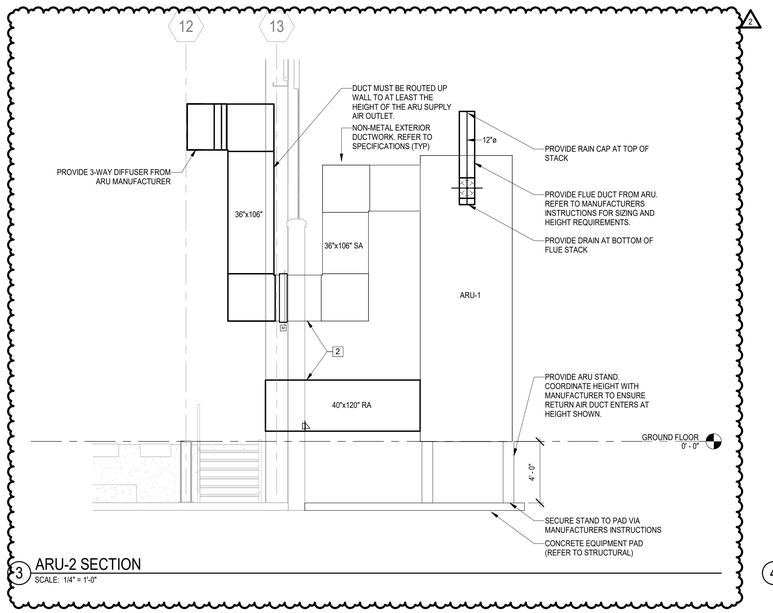
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CONSTRUCTION NOTES:

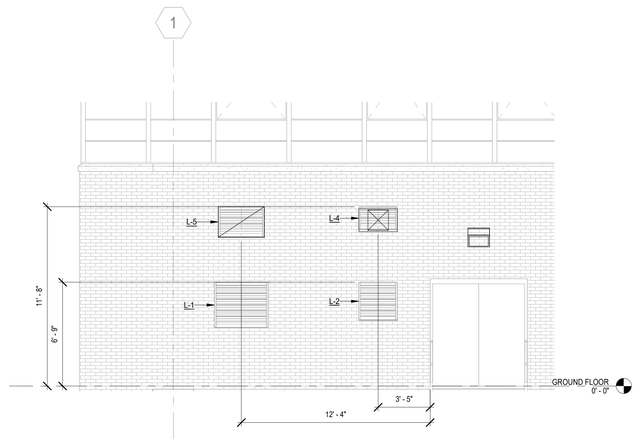
1. ARU IS TO BE MOUNTED ON CONCRETE PAD. REFER TO STRUCTURAL PLANS FOR PAD DETIALS.
2. SUPPLY AND RETURN DUCT IS TO BE DUCTED THROUGH WALL. DUCT IS TO BE SUPPORTED FROM CONCRETE PAD WITH STRUCTURAL SUPPORTS. REFER TO STRUCTURAL PLANS FOR DETAILS.
3. PROVIDE GRAVITY ROOF VENTILATOR ONTO EXISTING CURB. PROVIDE ROOF CURB ADAPTOR TO TRANSITION BETWEEN ROOF VENTILATOR AND EXISTING CURB.



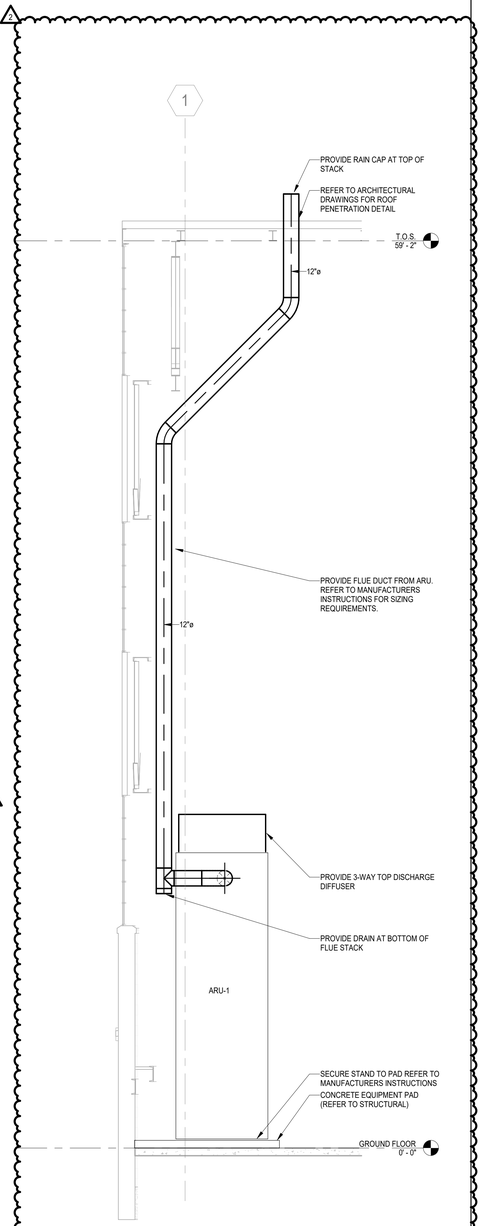
2 SECOND FLOOR RESTROOM
SCALE: 1/8" = 1'-0"



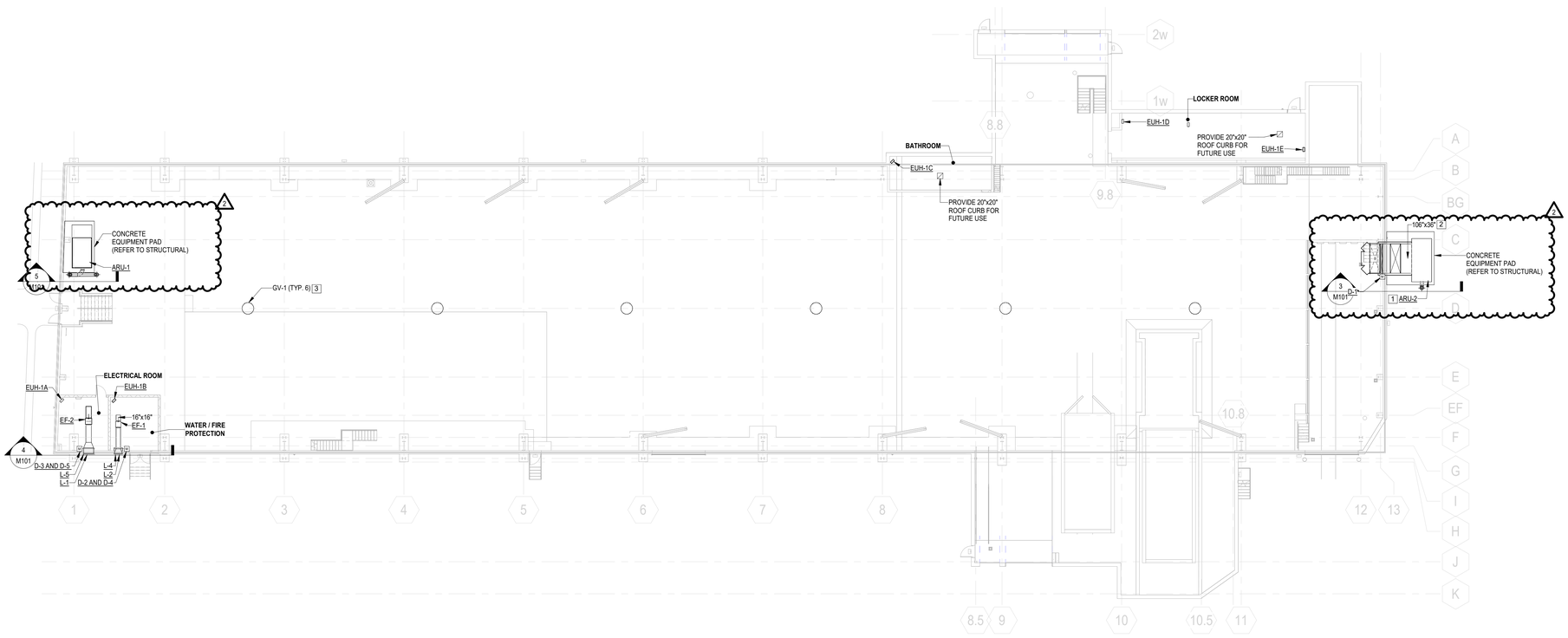
3 ARU-2 SECTION
SCALE: 1/4" = 1'-0"



4 EXTERIOR LOUVER SECTION
SCALE: 1/4" = 1'-0"



5 ARU-1 SECTION
SCALE: 1/4" = 1'-0"



1 MECHANICAL FLOOR PLAN
SCALE: 1/16" = 1'-0"

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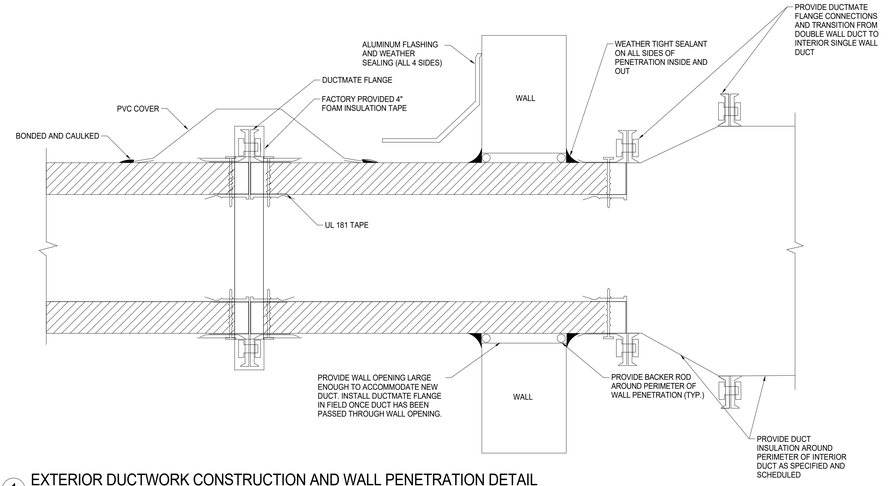
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FLOOR PLANS

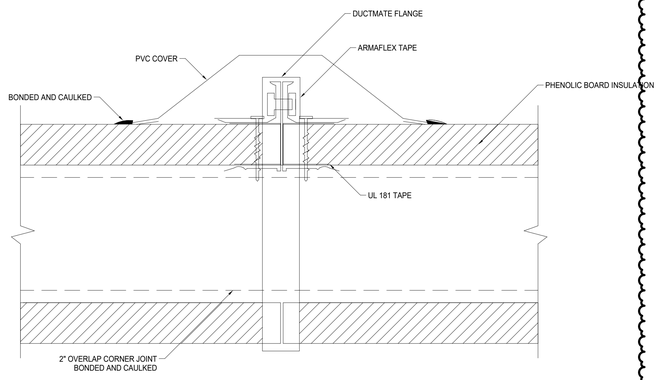
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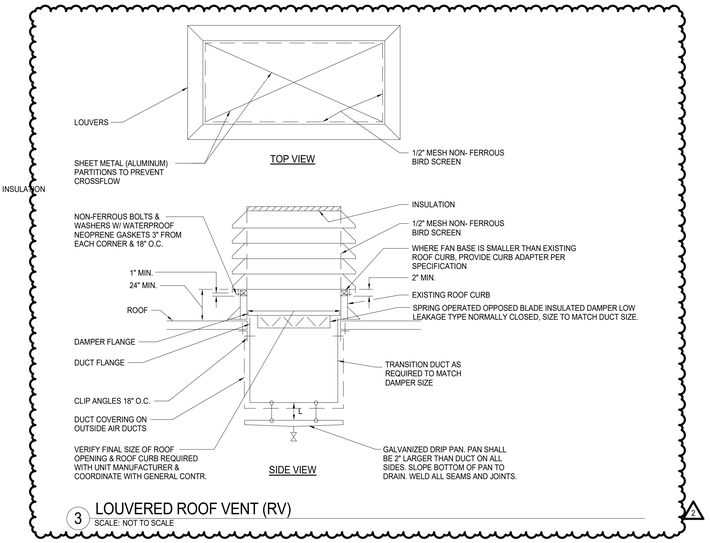
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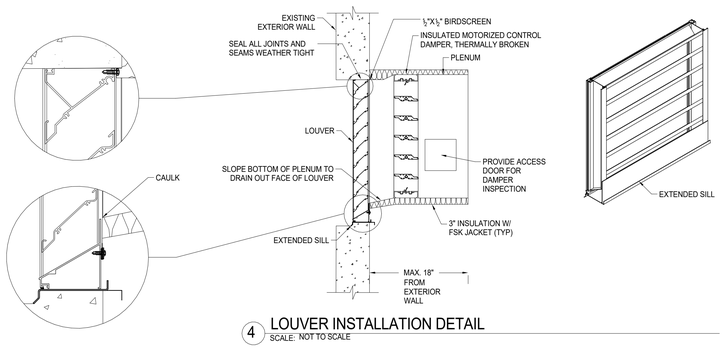
1 EXTERIOR DUCTWORK CONSTRUCTION AND WALL PENETRATION DETAIL
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2 EXTERIOR DUCTWORK CONSTRUCTION DETAIL
SCALE: NOT TO SCALE



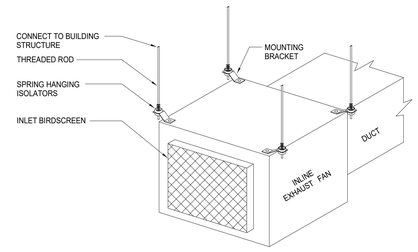
3 LOUVERED ROOF VENT (RV)
SCALE: NOT TO SCALE



4 LOUVER INSTALLATION DETAIL
SCALE: NOT TO SCALE

NOTES:

A. PLENUM SHALL BE SLOPED TO DRAIN OUT OF LOUVER. MOTORIZED DAMPER SHALL BE INSTALLED WITHIN THE PLENUM AS SHOWN.



NOTE: MAINTAIN A MINIMUM CLEARANCE OF 8'-0" ABOVE FINISHED FLOOR UNLESS INDICATED OTHERWISE.

5 INLINE EXHAUST FAN DETAIL
SCALE: NOT TO SCALE

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DETAILS

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DATE 08/27/25
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PROJ. No. 432607
DWG. No.

M201

SECTION 283111 - DIGITAL, ADDRESSABLE FIRE-ALARM SYSTEM

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 and 26 Specification Sections, apply to this Section.

B. Examine all other Sections of the Specifications for requirements that affect work under this Section whether or not such work is specifically mentioned in this Section.

C. Coordinate work with that of all other trades affecting or affected by work of this Section. Cooperate with such trades to assure the steady progress of all work under the Contract.

1.2 SUMMARY

A. Section Includes:

1. Fire-alarm control unit.
2. Notification appliances.
3. Addressable interface device.

1.3 DEFINITIONS

A. LED: Light-emitting diode.

B. NICET: National Institute for Certification in Engineering Technologies.

1.4 SYSTEM DESCRIPTION

A. Noncoded, UL-certified addressable system, with multiplexed signal transmission, dedicated to fire-alarm service only.

1.5 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Shop Drawings: For fire-alarm system. Include plans, elevations, sections, details, and attachments to other work.

1. Comply with recommendations in the "Documentation" Section of the "Fundamentals of

Fire Alarm Systems" Chapter in NFPA 72.
2. Include voltage drop calculations for notification appliance circuits.
3. Include battery-size calculations.
4. Include voice/alarm signaling-service equipment rack or console layout, grounding schematic, amplifier power calculation, and single-line connection diagram.
5. Include floor plans to indicate final outlet locations showing address of each addressable device. Show size and route of cable and conduits.

C. Qualification Data: For qualified Installer.

D. Field quality-control reports.

E. Operation and Maintenance Data: For fire-alarm systems and components to include in emergency, operation, and maintenance manuals. In addition to items specified in Division 01 Section "Operation and Maintenance Data," include the following:

1. Comply with the "Records" Section of the "Inspection, Testing and Maintenance" Chapter in NFPA 72.
2. Provide "Record of Completion Documents" according to NFPA 72 article "Permanent Records" in the "Records" Section of the "Inspection, Testing and Maintenance" Chapter.
3. Record copy of site-specific software.
4. Provide "Maintenance, Inspection and Testing Records" according to NFPA 72 article of the same name and include the following:

    a. Frequency of testing of installed components.
    b. Frequency of inspection of installed components.
    c. Requirements and recommendations related to results of maintenance.
    d. Manufacturer's user training manuals.

5. Manufacturer's required maintenance related to system warranty requirements.
6. Abbreviated operating instructions for mounting at fire-alarm control unit.
7. Copy of NFPA 25.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: Personnel shall be trained and certified by manufacturer for installation of units required for this Project.

B. Source Limitations for Fire-Alarm System and Components: Obtain fire-alarm system from single source from single manufacturer. Components shall be compatible with, and operate as, an extension of existing system.

C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

D. NFPA Certification: Obtain certification according to NFPA 72 by a UL-listed alarm company.

1.7 EXTRA MATERIALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Lamps for Remote Indicating Lamp Units: Quantity equal to 10 percent of amount installed, but no less than 1 unit.
2. Lamps for Strobe Units: Quantity equal to 10 percent of amount installed, but no fewer than 1 unit.
3. Keys and Tools: One extra set for access to locked and tamper-proofed components.
4. Audible and Visual Notification Appliances: One of each type installed.
5. Fuses: Two of each type installed in the system.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers:
1. Gamewell Fire Control Instruments, Inc.; a Honeywell company.
2. NOTIFIER; a Honeywell company.
3. SimplexGrinnell LP; a Tyco International company.
4. EST
5. Or approved Equal

2.2 SYSTEMS OPERATIONAL DESCRIPTION

A. Fire-alarm signal initiation shall be by one or more of the following devices:

1. Manual stations.
2. Automatic sprinkler system water flow.
3. Fire pump running.

B. Fire-alarm signal shall initiate the following actions:

1. Continuously operate alarm notification appliances.
2. Identify alarm at fire-alarm control unit.
3. Switch heating, ventilating, and air-conditioning equipment controls to fire-alarm mode.
4. Record events in the system memory.

C. System trouble signal initiation shall be by one or more of the following devices and actions:

1. Open circuits, shorts, and grounds in designated circuits.
2. Opening, tampering with, or removing alarm-initiating and supervisory signal-initiating devices.
3. Loss of primary power at fire-alarm control unit.
4. Ground or a single break in fire-alarm control unit internal circuits.
5. Abnormal ac voltage at fire-alarm control unit.
6. Break in standby battery circuitry.
7. Failure of battery charging.

8. Abnormal position of any switch at fire-alarm control unit.

D. Supervisory signal initiation shall be by one or more of the following devices and actions

1. Valve supervisory switch.
2. Fire pump running
3. Fire pump loss of power

2.3 FIRE-ALARM CONTROL UNIT

A. General Requirements for Fire-Alarm Control Unit:

1. Field-programmable, microprocessor-based, modular, power-limited design with electronic modules, complying with UL 864 and listed and labeled by an NRTL.

   a. System software and programs shall be held in flash electrically erasable programmable read-only memory (EEPROM), retaining the information through failure of primary and secondary power supplies.
   b. Include a real-time clock for time annotation of events on the event recorder and printer.

2. Addressable initiation devices that communicate device identity and status.

3. Addressable control circuits for operation of mechanical equipment.

B. Alphanumeric Display and System Controls: Arranged for interface between human operator at fire-alarm control unit and addressable system components including annunciation and supervision. Display alarm, supervisory, and component status messages and the programming and control menu.

1. Annunciator and Display: Liquid-crystal type, 3 line(s) of 40 characters, minimum.
2. Keypad: Arranged to permit entry and execution of programming, display, and control commands.

C. Circuits:

1. Initiating Device, Notification Appliance, and Signaling Line Circuits: NFPA 72, Class B.

   a. Initiating Device Circuits: Pathway Survivability Level 1.
   b. Notification Appliance Circuits: Pathway Survivability Level 1.
   c. Signaling Line Circuits: Pathway Survivability Level 1.
   d. Install no more than 50 addressable devices on each signaling line circuit.

2. Serial Interfaces: Two RS-232 ports for printers.

3. Cancel fire-alarm control unit indication and system reset if the alarm is not verified.

2.4 NOTIFICATION APPLIANCES

A. General Requirements for Notification Appliances: Individually addressed, connected to a signaling line circuit, equipped for mounting as indicated and with screw terminals for system connections.

B. Chimes, Low-Level Output: Vibrating type, 75-dBA minimum rated output.

C. Horns: Electric-vibrating-polarized type, 24-V dc; with provision for housing the operating mechanism behind a grille. Comply with UL 464. Horns shall produce a sound-pressure level of 90 dBA, measured 10 feet (3 m) from the horn, using the coded signal prescribed in UL 464 test protocol.

D. Visible Notification Appliances: Xenon strobe lights comply with UL 1971, with clear or nominal white polycarbonate lens mounted on an aluminum faceplate. The word "FIRE" is engraved in minimum 1-inch- (25-mm-) high letters on the lens.

1. Rated Light Output:

   a. 110 cd for weatherproof devices
   b. Field selectable 15/30/75/110 cd

2. Mounting: Wall mounted unless otherwise indicated.
3. Flashing shall be in a temporal pattern, synchronized with other units.
4. Strobe Leads: Factory connected to screw terminals.
5. Mounting Faceplate: Factory finished, red.

2.5 ADDRESSABLE INTERFACE DEVICE

A. Description: Microelectronic monitor module, NRTL listed for use in providing a system address for alarm-initiating devices for wired applications with normally open contacts.

2.6 DIGITAL ALARM COMMUNICATOR TRANSMITTER

A. Digital alarm communicator transmitter shall be acceptable to the remote central station and shall comply with UL 632 and be listed and labeled by an NRTL.

B. Functional Performance: Unit shall receive an alarm, supervisory, or trouble signal from fire-alarm control unit and automatically initiate a cellular connection and dial a preset number for a remote central station. Secondary connection shall be with a data connection. When contact is made with central station(s), signals shall be transmitted. If service on either method is interrupted for longer than 45 seconds, transmitter shall initiate a local trouble signal and transmit the signal indicating loss of connection to the remote alarm receiving station over the remaining connection. Transmitter shall automatically report service restoration to the central station. If service is lost on both connections, transmitter shall initiate the local trouble signal.

C. Local functions and display at the digital alarm communicator transmitter shall include the following:

D. Verification that both connections are available.

E. Programming device.

F. LED display.

G. Manual test report function and manual transmission clear indication.

H. Communications failure with the central station or fire-alarm control unit.

I. Digital data transmission shall include the following:

J. Address of the alarm-initiating device.

K. Address of the supervisory signal.

L. Address or loss of power.

M. Low battery.

N. Abnormal test signal.

O. Communication bus failure.

P. Secondary Power: Integral rechargeable battery and automatic charger.

Q. Self-Test: Conducted automatically every 24 hours with report transmitted to central station.

PART 3 - EXECUTION

3.1 EQUIPMENT INSTALLATION

A. Comply with NFPA 72 for installation of fire-alarm equipment.

B. Equipment Mounting: Install fire-alarm control unit on finished floor with tops of cabinets not more than 72 inches (1830 mm) above the finished floor.

1. Comply with requirements for seismic-restraint devices specified in Division 26 Section "Vibration and Seismic Controls for Electrical Systems."

C. Audible Alarm-Indicating Devices: Install not less than 6 inches (150 mm) below the ceiling. Install bells and horns on flush-mounted back boxes with the device-operating mechanism concealed behind a grille.

D. Visible Alarm-Indicating Devices: Install adjacent to each alarm bell or alarm horn and at least 6 inches below the ceiling.

E. Device Location-Indicating Lights: Locate in public space near the device they monitor.

F. Fire-Alarm Control Unit: Surface mounted, with tops of cabinets not more than 72 inches above the finished floor.

G. Annunciator: Install with top of panel not more than 72 inches above the finished floor.

3.2 CONNECTIONS

A. For fire-protection systems related to doors in fire-rated walls and partitions and to doors in smoke partitions, comply with requirements in Division 08 Section "Door Hardware." Connect hardware and devices to fire-alarm system.

1. Verify that hardware and devices are NRTL listed for use with fire-alarm system in this Section before making connections.

3.3 IDENTIFICATION

A. Identify system components, wiring, cabling, and terminals. Comply with requirements for identification specified in Division 26 Section "Identification for Electrical Systems."

B. Install framed instructions in a location visible from fire-alarm control unit.

3.4 GROUNDING

A. Ground fire-alarm control unit and associated circuits; comply with IEEE 1100. Install a ground wire from main service ground to fire-alarm control unit.

3.5 FIELD QUALITY CONTROL

A. Field tests shall be witnessed by authorities having jurisdiction.

B. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust components, assemblies, and equipment installations, including connections.

C. Perform tests and inspections.

1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.

D. Tests and Inspections:

1. Visual Inspection: Conduct visual inspection prior to testing.

a. Inspection shall be based on completed Record Drawings and system documentation that is required by NFPA 72 in its "Completion Documents, Preparation" Table in the "Documentation" Section of the "Fundamentals of Fire Alarm Systems" Chapter.
b. Comply with "Visual Inspection Frequencies" Table in the "Inspection" Section of the "Inspection, Testing and Maintenance" Chapter in NFPA 72; retain the

"Initial/Reacceptance" column and list only the installed components.

2. System Testing: Comply with "Test Methods" Table in the "Testing" Section of the "Inspection, Testing and Maintenance" Chapter in NFPA 72.
3. Test audible appliances for the public operating mode according to manufacturer's written instructions. Perform the test using a portable sound-level meter complying with Type 2 requirements in ANSI S1.4.
4. Test audible appliances for the private operating mode according to manufacturer's written instructions.
5. Test visible appliances for the public operating mode according to manufacturer's written instructions.
6. Factory-authorized service representative shall prepare the "Fire Alarm System Record of Completion" in the "Documentation" Section of the "Fundamentals of Fire Alarm Systems" Chapter in NFPA 72 and the "Inspection and Testing Form" in the "Records" Section of the "Inspection, Testing and Maintenance" Chapter in NFPA 72.

E. Reacceptance Testing: Perform reacceptance testing to verify the proper operation of added or replaced devices and appliances.

F. Fire-alarm system will be considered defective if it does not pass tests and inspections.

G. Prepare test and inspection reports.

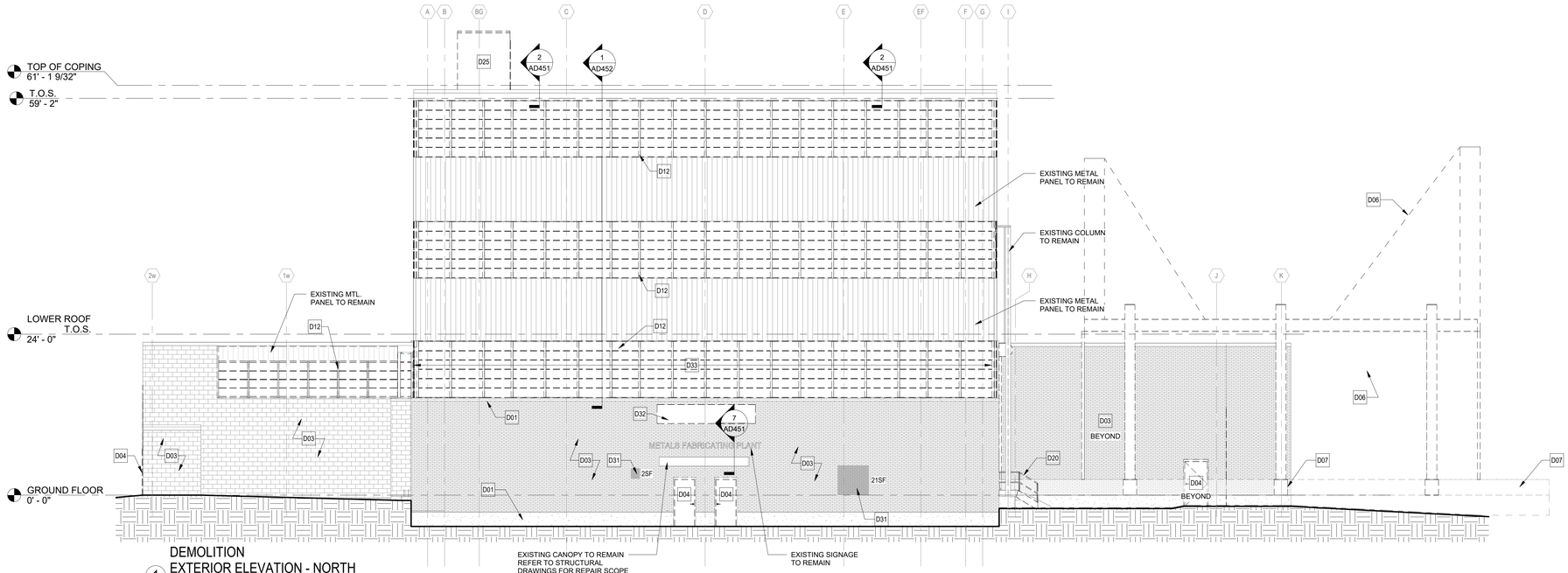
H. Maintenance Test and Inspection: Perform tests and inspections listed for weekly, monthly, quarterly, and semiannual periods. Use forms developed for initial tests and inspections.

I. Annual Test and Inspection: One year after date of Substantial Completion, test fire-alarm system complying with visual and testing inspection requirements in NFPA 72. Use forms developed for initial tests and inspections.

3.6 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain fire-alarm system.

END OF SECTION 283111



1 DEMOLITION EXTERIOR ELEVATION - NORTH

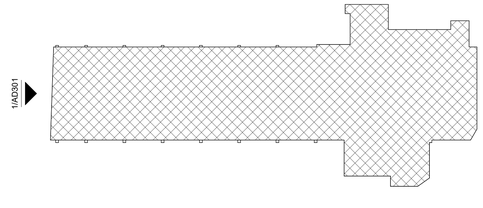
SCALE: 1/8" = 1'-0"

SEE DEMOLITION GENERAL NOTES ON AD101A

REFER TO STRUCTURAL DRAWINGS FOR ALL REPAIR/REPOINTING/REMOVAL OF CONCRETE, CONCRETE BLOCK, AND BRICK.

DEMOLITION KEYNOTES	
D01	CLEAN ALL EXISTING POURED IN PLACE AND PRECAST CONCRETE WITH LOW PRESSURE POWERWASHING.
D03	CLEAN ALL EXISTING EXTERIOR MASONRY. REFER TO SPEC SECTIONS: 040110 - MASONRY CLEANING. REFER TO STRUCTURAL DRAWINGS AND SPEC SECTION 040120.63 - BRICK MASONRY REPAIR & SECTION 040120.64 - BRICK MASONRY REPOINTING.
D04	REMOVE EXISTING DOOR INCLUSIVE OF FRAME, TRANSOM, AND HARDWARE. PROTECT OPENING AND PREPARE TO RECEIVE DOOR AND FRAME AS SCHEDULED.
D06	REMOVE EXISTING STEEL FURNACE INCLUSIVE OF ALL DUCTS, PIPING, ELECTRIC, AND ASSOCIATED HARDWARE.
D07	REMOVE EXISTING ASSUMED REINFORCED CONCRETE FOUNDATION SYSTEM FULL DEPTH, IN ITS ENTIRETY, WITHOUT DAMAGING THE EXISTING BUILDING'S REINFORCED CONCRETE FOUNDATIONS TO REMAIN. VERIFY IN FIELD.
D12	REMOVE ALL WINDOWS AND ASSOCIATED HARDWARE. REFER TO ENVIRONMENTAL REPORT.
D20	REMOVE EXISTING STEEL STAIR AND ASSOCIATED HARDWARE, RAILINGS, AND FOUNDATIONS.
D25	REMOVE ROOFTOP MASONRY STAIR PENTHOUSE DOWN TO EXISTING DECK INCLUDING ROOF STRUCTURE AND WALL SYSTEM.
D31	REMOVE GRAFFITI FROM MASONRY AND/OR CONCRETE. REFER TO SPEC SECTION 040110 - MASONRY CLEANING.
D32	REMOVE EXISTING "CLEARING NIAGARA" SIGN, INCLUDING ASSOCIATED MOUNTING HARDWARE. PATCH BRICK AT ALL MOUNTING LOCATIONS.
D33	REMOVE CORRUGATED METAL PANELS COVERING WINDOWS, INCLUDING ASSOCIATED MOUNTING HARDWARE.

02



N KEY PLAN

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Buffalo Urban Development Corporation
Hon. Christopher P. Scanlon, Chairman

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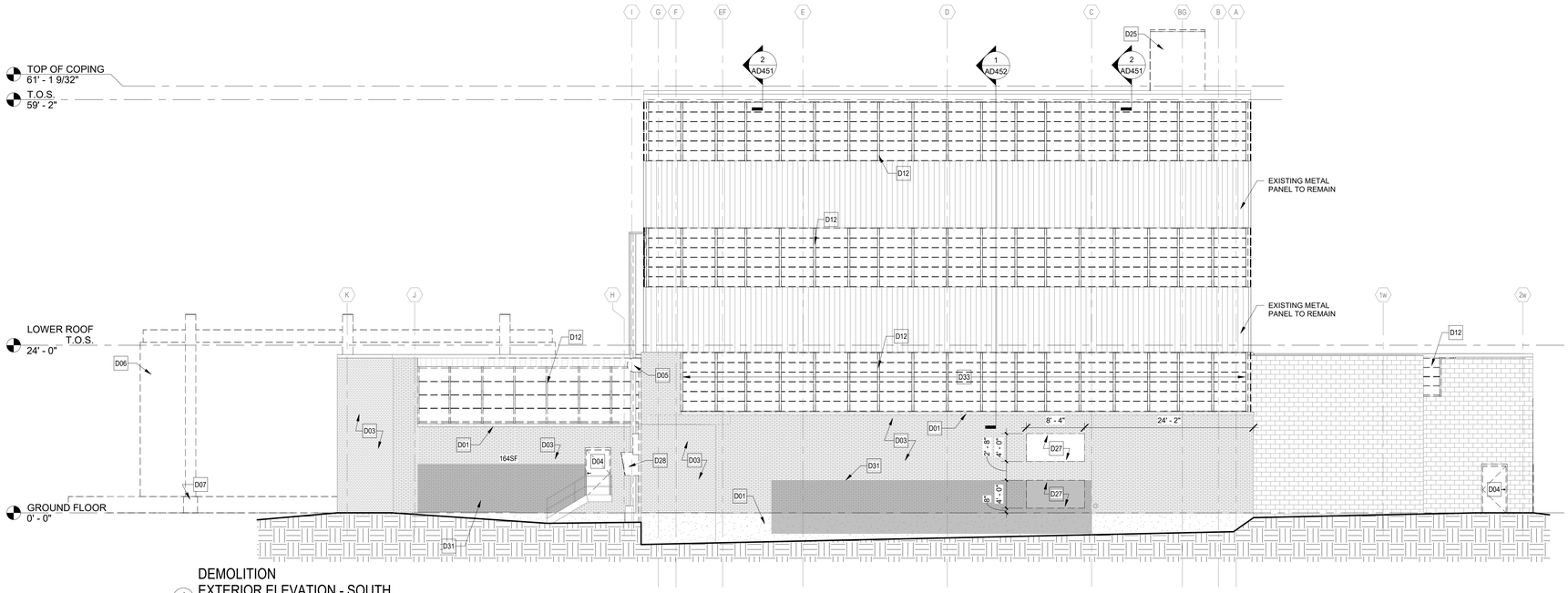
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02	ADDENDUM #2	10/17/2025
01	ISSUED FOR PERMIT	10/01/2025
00	ISSUED FOR BID	10/01/2025

DWG. TITLE

DEMOLITION EXTERIOR ELEVATIONS - NORTH

0 1' 2'
GENERIC SCALE BAR
SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING. IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY.

DATE	10/01/2025
SCALE	1/8" = 1'-0"
DWN.	MJC CHK. BS1
PROJ. No.	432607
DWG. No.	**AD301**

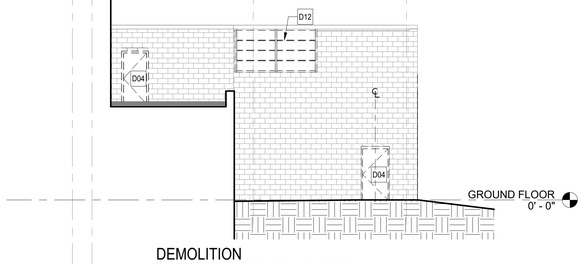


1 DEMOLITION EXTERIOR ELEVATION - SOUTH

SCALE: 1/8" = 1'-0"

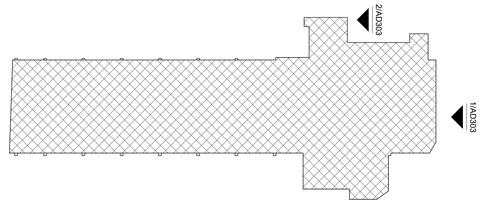
SEE DEMOLITION GENERAL NOTES ON AD101A

REFER TO STRUCTURAL DRAWINGS FOR ALL REPAIR/REPOINTING/REMOVAL OF CONCRETE, CONCRETE BLOCK, AND BRICK.



2 DEMOLITION ELEVATION - SOUTH - PARTIAL

SCALE: 1/8" = 1'-0"



N KEY PLAN

DEMOLITION KEYNOTES	
D01	CLEAN ALL EXISTING POURED IN PLACE AND PRECAST CONCRETE WITH LOW PRESSURE POWERWASHING.
D03	CLEAN ALL EXISTING EXTERIOR MASONRY. REFER TO SPEC SECTIONS: 040110 - MASONRY CLEANING. REFER TO STRUCTURAL DRAWINGS AND SPEC SECTION 040120.63 - BRICK MASONRY REPAIR & SECTION 040120.64 - BRICK MASONRY REPOINTING.
D04	REMOVE EXISTING DOOR INCLUSIVE OF FRAME, TRANSOM, AND HARDWARE. PROTECT OPENING AND PREPARE TO RECEIVE DOOR AND FRAME AS SCHEDULED.
D05	REMOVE EXISTING OVERHEAD DOOR INCLUDING ALL TRACKS, HARDWARE, AND BLOCKING. PROVIDE TEMPORARY PLYWOOD PARTITION.
D06	REMOVE EXISTING STEEL FURNACE INCLUSIVE OF ALL DUCTS, PIPING, ELECTRIC, AND ASSOCIATED HARDWARE.
D07	REMOVE EXISTING ASSUMED REINFORCED CONCRETE FOUNDATION SYSTEM FULL DEPTH, IN ITS ENTIRETY, WITHOUT DAMAGING THE EXISTING BUILDING'S REINFORCED CONCRETE FOUNDATIONS TO REMAIN. VERIFY IN FIELD.
D12	REMOVE ALL WINDOWS AND ASSOCIATED HARDWARE. REFER TO ENVIRONMENTAL REPORT.
D25	REMOVE ROOFTOP MASONRY STAIR PENTHOUSE DOWN TO EXISTING DECK INCLUDING ROOF STRUCTURE AND WALL SYSTEM.
D27	PROVIDE MASONRY OPENING FOR MECH. DUCT AND LOUVER AS SCHEDULED. REFER TO STRUCTURAL AND MECHANICAL FOR OPENING SIZE, LOCATION AND DETAILS.
D28	REMOVE EXISTING FANS/VENTS AND INFILL MASONRY WALL TO MATCH EXISTING. REFER TO STRUCTURAL.
D31	REMOVE GRAFFITI FROM MASONRY AND/OR CONCRETE. REFER TO SPEC SECTION 040110 - MASONRY CLEANING.
D33	REMOVE CORRUGATED METAL PANELS COVERING WINDOWS, INCLUDING ASSOCIATED MOUNTING HARDWARE.

02

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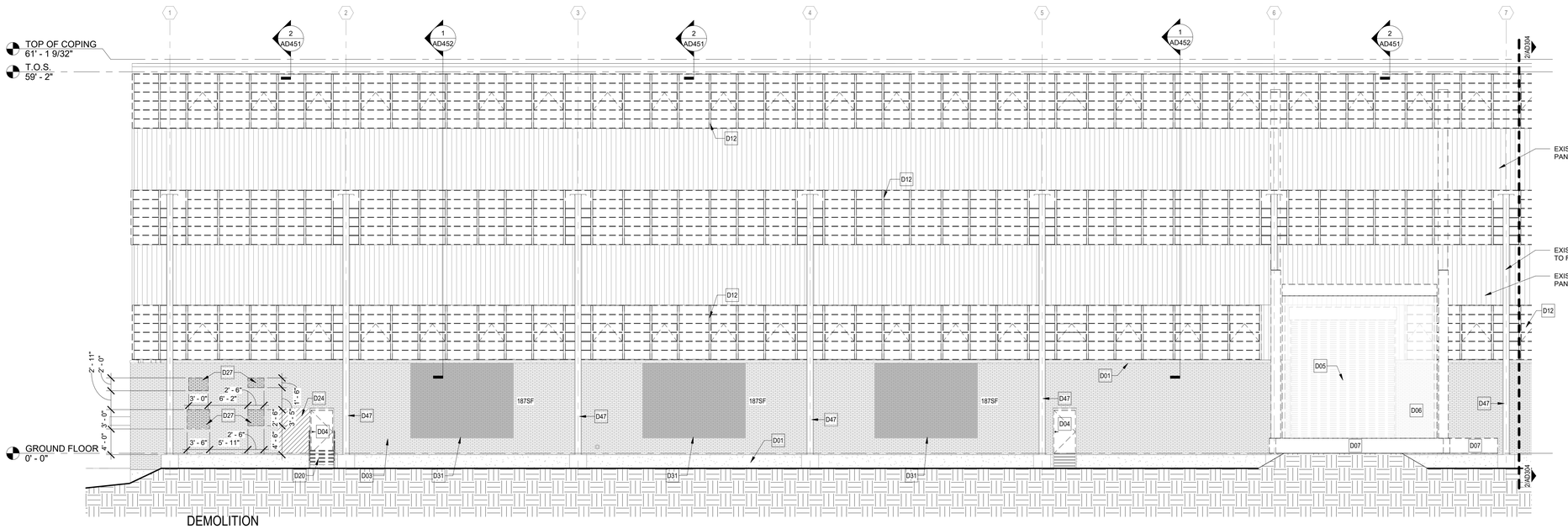
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DWG. TITLE

DEMOLITION EXTERIOR ELEVATIONS -SOUTH

0 1" 2"
GENERIC SCALE BAR
SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING. IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY.

DATE	10/01/2025
SCALE	1/8" = 1'-0"
DWN.	MJC CHK. BS1
PROJ. No.	432607
DWG. No.	**AD303**

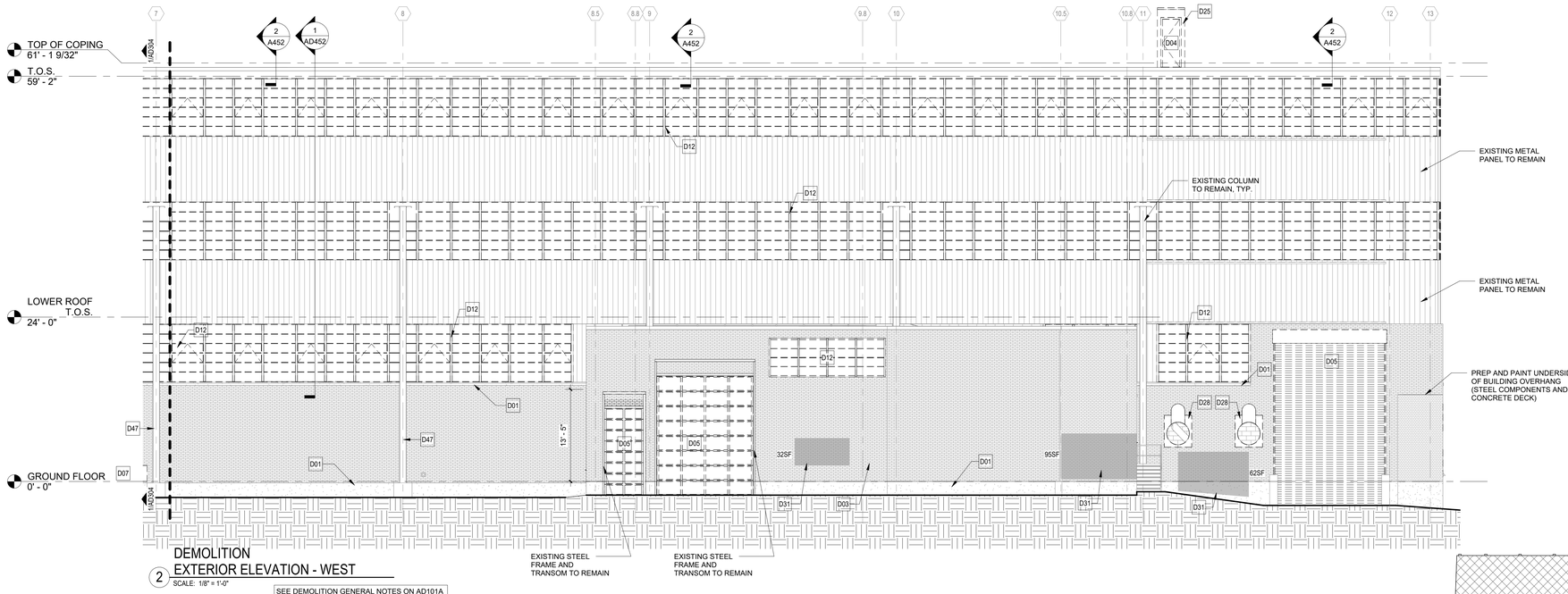


DEMOLITION EXTERIOR ELEVATION - WEST

1 SCALE: 1/8" = 1'-0"

SEE DEMOLITION GENERAL NOTES ON AD101A

REFER TO STRUCTURAL DRAWINGS FOR ALL REPAIR/REPOINTING/REMOVAL OF CONCRETE, CONCRETE BLOCK, AND BRICK.

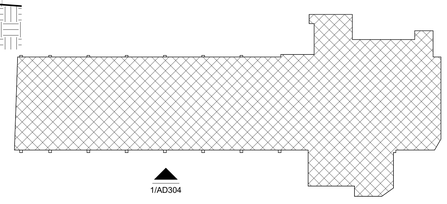


DEMOLITION EXTERIOR ELEVATION - WEST

2 SCALE: 1/8" = 1'-0"

SEE DEMOLITION GENERAL NOTES ON AD101A

REFER TO STRUCTURAL DRAWINGS FOR ALL REPAIR/REPOINTING/REMOVAL OF CONCRETE, CONCRETE BLOCK, AND BRICK.



KEY PLAN

DEMOLITION KEYNOTES

D01	CLEAN ALL EXISTING POURED IN PLACE AND PRECAST CONCRETE WITH LOW PRESSURE POWERWASHING.
D03	CLEAN ALL EXISTING EXTERIOR MASONRY. REFER TO SPEC SECTIONS: 040110 - MASONRY CLEANING. REFER TO STRUCTURAL DRAWINGS AND SPEC SECTION 040120.63 - BRICK MASONRY REPAIR & SECTION 040120.64 - BRICK MASONRY REPOINTING.
D04	REMOVE EXISTING DOOR INCLUSIVE OF FRAME, TRANSOM, AND HARDWARE. PROTECT OPENING AND PREPARE TO RECEIVE DOOR AND FRAME AS SCHEDULED.
D05	REMOVE EXISTING OVERHEAD DOOR INCLUDING ALL TRACKS, HARDWARE, AND BLOCKING. PROVIDE TEMPORARY PLYWOOD PARTITION.
D06	REMOVE EXISTING STEEL FURNACE INCLUSIVE OF ALL DUCTS, PIPING, ELECTRIC, AND ASSOCIATED HARDWARE.
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D12	REMOVE ALL WINDOWS AND ASSOCIATED HARDWARE. REFER TO ENVIRONMENTAL REPORT.
D20	REMOVE EXISTING STEEL STAIR AND ASSOCIATED HARDWARE, RAILINGS, AND FOUNDATIONS.
D24	REMOVE EXISTING EXTERIOR MASONRY WALL TO EXTENT SHOWN AND PREPARE OPENING TO RECEIVE NEW DOORS. REFER TO DOOR SCHEDULE AND STRUCTURAL.
D25	REMOVE ROOFTOP MASONRY STAIR PENTHOUSE DOWN TO EXISTING DECK INCLUDING ROOF STRUCTURE AND WALL SYSTEM.
D27	PROVIDE MASONRY OPENING FOR MECH. DUCT AND LOUVER AS SCHEDULED. REFER TO STRUCTURAL AND MECHANICAL FOR OPENING SIZE, LOCATION AND DETAILS.
D28	REMOVE EXISTING FANS/VENTS AND INFILL MASONRY WALL TO MATCH EXISTING. REFER TO STRUCTURAL.
D31	REMOVE GRAFFITI FROM MASONRY AND/OR CONCRETE. REFER TO SPEC SECTION 040110 - MASONRY CLEANING.
D47	REMOVE EXISTING SEALANT AND BACKER ROD.

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DEMOLITION EXTERIOR ELEVATIONS -WEST

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PROJ. No.	432607
DWG. No.	**AD304**