BID OF_____

2016

PROPOSAL, CONTRACT, BOND AND SPECIFICATIONS

FOR

CUB FOODS HAZMAT ABATEMENT

CONTRACT NO. 7754

MUNIS NO. 10305

IN

MADISON, DANE COUNTY, WISCONSIN

AWARDED BY THE COMMON COUNCIL
MADISON, WISCONSIN ON_____

CITY ENGINEERING DIVISION
1600 EMIL STREET
MADISON, WISCONSIN 53713

https://bidexpress.com/login

CUB FOODS HAZMAT ABATEMENT
CONTRACT NO. 7754

INDEX

This Proposal, and Agreement have
been prepared by:

CITY ENGINEERING DIVISION
CITY OF MADISON
MADISON, DANE COUNTY, WISCONSIN

Robert F. Phillips, P.E., City Engineer

RFP: ds

SECTION A: ADVERTISEMENT FOR BIDS AND INSTRUCTIONS TO BIDDERS

REQUEST FOR BID FOR PUBLIC WORKS CONSTRUCTION
CITY OF MADISON, WISCONSIN

A BEST VALUE CONTRACTING MUNICIPALITY

PROJECT NAME:	CUB FOODS HAZMAT ABATEMENT
CONTRACT NO.:	7754
BID BOND	5%
PRE BID CONFERENCE (1:00 P.M.)	JULY 14, 2016
PREQUALIFICATION APPLICATION DUE (1:00 P.M)	JULY 29, 2016
BID SUBMISSION (1:00 P.M.)	AUGUST 5, 2016
BID OPEN (1:30 P.M.)	AUGUST 5, 2016
PUBLISHED IN WSJ	JULY 8, 15, 22, 29

PRE BID CONFERENCE: A pre-bid conference will be conducted at Cub Foods, 4141 Nakoosa Trail, at 1:00 PM, Thursday, July 14, 2016.

This will be the only opportunity for bidding contractors to walk through the site. An alternate date may be selected in the event of inclement weather as determined solely at the discretion of the City Project Manager.

A representative from the HAZMAT abatement consulting service will be on hand to conduct a building walk through, discuss the plans, specifications and expectations of the contract. The City Construction Manager will also be on hand to answer general contract questions.

Questions and clarifications: Any questions or requests for clarifications regarding plans and specifications shall be submitted directly to the City's asbestos abatement consultant. All questions shall be sent via email, reference Cub Foods Asbestos Abatement in the subject line.

The deadline for receiving questions and clarifications shall be 12:00pm (noon) on Wednesday July 27, 2016. No additional questions or requests for clarifications will be received after this deadline.

If needed the City of Madison and the City's asbestos abatement consultant shall publish one (1) all inclusive addendum no later than 1:00pm on Friday, July 29, 2016 to respond to any questions or clarifications.

PREQUALIFICATION APPLICATION: Forms are available at the same location or on our website, www.cityofmadison.com/business/pw/forms.cfm. If not currently prequalified in the categories listed in Section A, an amendment to your Prequalification will need to be submitted prior to the same due date. Postmark is not applicable.

BIDS TO BE SUBMITTED by hand to 1600 EMIL ST., MADISON, WI 53713 or online at www.bidexpress.com.

THE BID OPENING is at 1600 EMIL ST., MADISON, WI 53713.

STANDARD SPECIFICATIONS

The City of Madison's Standard Specifications for Public Works Construction - 2016 Edition, as supplemented and amended from time to time, forms a part of these contract documents as if attached hereto.

These standard specifications are available on the City of Madison Public Works website, www.cityofmadison.com/Business/PW/specs.cfm.

The Contractor shall review these Specifications prior to preparation of proposals for the work to be done under this contract, with specific attention to Article 102, "BIDDING REQUIREMENTS AND CONDITIONS" and Article 103, "AWARD AND EXECUTION OF THE CONTRACT." For the convenience of the bidder, below are highlights of three subsections of the specifications.

SECTION 102.1: PRE-QUALIFICATION OF BIDDERS

In accordance with Wisconsin State Statutes 66.0901 (2) and (3), all bidders must submit to the Board of Public Works proof of responsibility on forms furnished by the City. The City requires that all bidders be qualified on a biennial basis.

Bidders must present satisfactory evidence that they have been regularly engaged in the type of work specified herein and they are fully prepared with necessary capital, materials, machinery and supervisory personnel to conduct the work to be contracted for to the satisfaction of the City. All bidders must be pre-qualified by the Board of Public Works for the type of construction on which they are bidding prior to the opening of the bid.

In accordance with Section 39.02(9)(a)l. of the General Ordinances, all bidders shall submit in writing to the Affirmative Action Division Manager of the City of Madison, a Certificate of Compliance or an Affirmative Action Plan at the same time or prior to the submission of the proof of responsibility forms.

The bidder shall be disqualified if the bidder fails to or refuses to, prior to opening of the bid, submit a Certificate of compliance, Affirmative Action Plan or Affirmative Action Data Update, as applicable, as defined by Section 39.02 of the General Ordinances (entitled Affirmative Action) and as required by Section 102.11 of the Standard Specifications.

SECTION 102.4 PROPOSAL

No bid will be accepted that does not contain an adequate or reasonable price for each and every item named in the Schedule of Unit Prices.

A lump sum bid for the work in accordance with the plans and specifications is required. The lump sum bid must be the same as the total amounts bid for the various items and it shall be inserted in the space provided.

All papers bound with or attached to the proposal form are considered a part thereof and must not be detached or altered when the proposal is submitted. The plans, specifications and other documents designated in the proposal form will be considered a part of the proposal whether attached or not.

A proposal submitted by an individual shall be signed by the bidder or by a duly authorized agent. A proposal submitted by a partnership shall be signed by a member/partner or by a duly authorized agent thereof. A proposal submitted by a corporation shall be signed by an authorized officer or duly authorized registered agent of such corporation, and the proposal shall show the name of the State under the laws of

which such corporation was chartered. The required signatures shall in all cases appear in the space provided thereof on the proposal.

Each proposal shall be placed, together with the proposal guaranty, in a sealed envelope, so marked as to indicate name of project, the contract number or option to which it applies, and the name and address of the Contractor or submitted electronically through Bid Express (www.bidexpress.com). Proposals will be accepted at the location, the time and the date designated in the advertisement. Proposals received after the time and date designated will be returned to the bidder unopened.

The Bidder shall execute the Disclosure of Ownership form. REFER TO SECTION F.

SECTION 102.5: BID DEPOSIT (PROPOSAL GUARANTY)

All bids, sealed or electronic, must be accompanied with a Bid Bond equal to at least 5% of the bid or a Certificate of Annual/Biennial Bid Bond or certified check, payable to the City Treasurer. Bid deposit of the successful bidders shall be returned within forty-eight (48) hours following execution of the contract and bond as required.

PREVAILING WAGE RATES

Prevailing Wage Rates may be required and are attached in Section J of the contract. See Special Provisions to determine applicability.

MINOR DISCREPENCIES

Bidder is responsible for submitting all forms necessary for the City to determine compliance with State and City bidding requirements. Nothwithstanding any language to the contrary contained herein, the City may exercise its discretion to allow bidders to correct or supplement submissions after bid opening, if the minor discrepancy, bid irregularity or omission is insignificant and not one related to price, quality, quantity, time of completion or performance of the contract.

Bidders for this Contract(s) must be Pre-Qualified for at least one of the following type(s) of construction denoted by an ☒

Building Demolition

101 ☒ Asbestos Removal
120 ☐ House Mover
110 ☐ Building Demolition

Street, Utility and Site Construction

201 ☐ Asphalt Paving
205 ☐ Blasting
210 ☐ Boring/Pipe Jacking
215 ☐ Concrete Paving
220 ☐ Con. Sidewalk/Curb & Gutter/Misc. Flat Work
221 ☐ Concrete Bases and Other Concrete Work
222 ☐ Concrete Removal
225 ☐ Dredging
230 ☐ Fencing
235 ☐ Fiber Optic Cable/Conduit Installation
240 ☐ Grading and Earthwork
241 ☐ Horizontal Saw Cutting of Sidewalk
242 ☐ Infrared Seamless Patching
245 ☐ Landscaping, Maintenance
250 ☐ Landscaping, Site and Street
251 ☐ Parking Ramp Maintenance
252 ☐ Pavement Marking
255 ☐ Pavement Sealcoating and Crack Sealing
260 ☐ Petroleum Above/Below Ground Storage Tank Removal/Installation
262 ☐ Playground Installer
265 ☐ Retaining Walls, Precast Modular Units
270 ☐ Retaining Walls, Reinforced Concrete
275 ☐ Sanitary, Storm Sewer and Water Main Construction
276 ☐ Sawcutting
280 ☐ Sewer Lateral Drain Cleaning/Internal TV Insp.
285 ☐ Sewer Lining
290 ☐ Sewer Pipe Bursting
295 ☐ Soil Borings
300 ☐ Soil Nailing
305 ☐ Storm & Sanitary Sewer Laterals & Water Svc.
310 ☐ Street Construction
315 ☐ Street Lighting
318 ☐ Tennis Court Resurfacing
320 ☐ Traffic Signals
325 ☐ Traffic Signing & Marking
332 ☐ Tree pruning/removal
333 ☐ Tree, pesticide treatment of
335 ☐ Trucking
340 ☐ Utility Transmission Lines including Natural Gas, Electrical & Communications
399 ☐ Other_____

Bridge Construction

501 ☐ Bridge Construction and/or Repair

Building Construction

401 ☐ Floor Covering (including carpet, ceramic tile installation, rubber, VCT
402 ☐ Building Automation Systems
403 ☐ Concrete
404 ☐ Doors and Windows
405 ☐ Electrical - Power, Lighting & Communications
410 ☐ Elevator - Lifts
412 ☐ Fire Suppression
413 ☐ Furnishings - Furniture and Window Treatments
415 ☐ General Building Construction, Equal or Less than $250,000
420 ☐ General Building Construction, $250,000 to $1,500,000
425 ☐ General Building Construction, Over $1,500,000
428 ☐ Glass and/or Glazing
429 ☒ Hazardous Material Removal
430 ☐ Heating, Ventilating and Air Conditioning (HVAC)
433 ☐ Insulation - Thermal
435 ☐ Masonry/Tuck pointing
437 ☐ Metals
440 ☐ Painting and Wallcovering
445 ☐ Plumbing
450 ☐ Pump Repair
455 ☐ Pump Systems
460 ☐ Roofing and Moisture Protection
464 ☐ Tower Crane Operator
461 ☐ Solar Photovoltaic/Hot Water Systems
465 ☐ Soil/Groundwater Remediation
466 ☐ Warning Sirens
470 ☐ Water Supply Elevated Tanks
475 ☐ Water Supply Wells
480 ☐ Wood, Plastics & Composites - Structural & Architectural
499 ☐ Other_____
_____
_____

State of Wisconsin Certifications

1 ☐ Class 5 Blaster - Blasting Operations and Activities 2500 feet and closer to inhabited buildings for quarries, open pits and road cuts.
2 ☐ Class 6 Blaster - Blasting Operations and Activities 2500 feet and closer to inhabited buildings for trenches, site excavations, basements, underwater demolition, underground excavations, or structures 15 feet or less in height.
3 ☐ Class 7 Blaster - Blasting Operations and Activities for structures greater than 15 ' in height, bridges, towers, and any of the objects or purposes listed as “Class 5 Blaster or Class 6 Blaster”.
4 ☐ Petroleum Above/Below Ground Storage Tank Removal and Installation (Attach copies of State Certifications.)
5 ☐ Hazardous Material Removal (Contractor to be certified for asbestos and lead abatement per the Wisconsin Department of Health Services, Asbestos and Lead Section (A&LS).) See the following link for application: www.dhs.wisconsin.gov/Asbestos/Cert. State of Wisconsin Performance of Asbestos Abatement Certificate must be attached.
6 ☐ Certification number as a Certified Arborist or Certified Tree Worker as administered by the International Society of Arboriculture
7 ☐ Pesticide application (Certification for Commercial Applicator For Hire with the certification in the category of turf and landscape (3.0) and possess a current license issued by the DATCP)
8 ☐ State of Wisconsin Master Plumbers License.

SECTION B: PROPOSAL

Please refer to the Bid Express Website at https://bidexpress.com look up contract number and go to Section B: Proposal Page

You can access all City of Madison bid solicitations for FREE at www.bidexpress.com

Click on the “Register for Free” button and follow the instructions to register your company and yourself. You will be asked for a payment subscription preference, since you may wish to bid online someday. Simply choose the method to pay on a ‘per bid’ basis. This requires no payment until / unless you actually bid online. You can also choose the monthly subscription plan at this time. You will, however, be asked to provide payment information. Remember, you can change your preference at anytime. You will then be able to complete your free registration and have full access to the site. Your free access does not require completion of the ‘Digital ID’ process, so you will have instant access for viewing and downloading. To be prepared in case you ever do wish to bid online, you may wish to establish your digital ID also, since you cannot bid without a Digital ID.

If you have any problems with the free registration process, you can call the bidexpress help team, toll free at 1-888-352-2439 (option 1, option1).

SECTION C: SMALL BUSINESS ENTERPRISE

Instructions to Bidders
City of Madison
SBE Program Information

SBE NOT APPLICABLE

SECTION D: SPECIAL PROVISIONS

CUB FOODS HAZMAT ABATEMENT
CONTRACT NO. 7754

It is the intent of these Special Provisions to set forth the final contractual intent as to the matter involved and shall prevail over the Standard Specifications and plans whenever in conflict therewith. In order that comparisons between the Special Provisions can be readily made, the numbering system for the Special Provisions is equivalent to that of the Specifications.

Whenever in these Specifications the term "Standard Specifications" appears, it shall be taken to refer to the City of Madison Standard Specifications for Public Works Construction and Supplements thereto.

SECTION 102.9 BIDDER'S UNDERSTANDING

Tax Exempt Status: Effective with all contracts executed after January 1, 2016, the sales price from the sale, storage, use or other consumption of tangible personal property that is used in conjunction with a public works improvement for a tax exempt entity (including the City of Madison), is exempt from State sales tax. Said property must become a component of the project owned by the tax exempt entity and includes: any building; shelter; parking lot; parking garage; athletic field; storm sewer; water supply system; or sewerage and waste water treatment facility, but does not include a highway, street or road.

The contractor shall ensure that the exemption for sales and use tax available under Wis. Stat. Sec. 77.54(9m) applies where available. The contractor shall provide all necessary documentation as required by the State of Wisconsin and the City of Madison to comply with this exemption.

SECTION 102.10 PREVAILING WAGE

For this project, payment of prevailing wages (white sheet) shall be required unless the box indicating prevailing wages are not required is checked below.

☒ Prevailing wages shall not be required when this box is checked.

If prevailing wages (white sheets) are required, the wages and benefits paid on the contract shall not be less than those specified in the Prevailing Wage Determination included with these contract documents for the following types of work:

☐ Building or Heavy Construction
☐ Sewer, Water, or Tunnel Construction
☐ Local Street or Miscellaneous Paving Construction
☐ Residential or Agricultural Construction

When multiple boxes are checked, worker's wages may vary according to the type and area of work performed. It is the responsibility of the Contractor to determine and apply the appropriate wage rate for the specific work assigned.

SECTION 102.12 BEST VALUE CONTRACTING

This Contract shall be considered a Best Value Contract if the Contractor's bid is equal to or greater than $56,500 for a single trade contract; or equal to or greater than $277,000 for a multi-trade contract pursuant to MGO 33.07(7).

SECTION 102.14 BAN THE BOX – ARREST AND CRIMINAL BACKGROUND CHECKS (SEC. 39.08, MGO)

This provision applies to all prime contractors on contracts entered into on or after January 1, 2016, and all subcontractors who are required to meet prequalification requirements under MGO 33.07(7)(I), MGO

as of the first time they seek or renew pre-qualification status on or after January 1, 2016. The City will monitor compliance of subcontractors through the pre-qualification process.

A. **Definitions.** For purposes of this section, "Arrest and Conviction Record" includes, but is not limited to, information indicating that a person has been questioned, apprehended, taken into custody or detention, held for investigation, arrested, charged with, indicted or tried for any felony, misdemeanor or other offense pursuant to any law enforcement or military authority.

"Conviction record" includes, but is not limited to, information indicating that a person has been convicted of a felony, misdemeanor or other offense, placed on probation, fined, imprisoned or paroled pursuant to any law enforcement or military authority.

"Background Check" means the process of checking an applicant's arrest and conviction record, through any means.

B. **Requirements**. For the duration of this Contract, the Contractor shall:

1. Remove from all job application forms any questions, check boxes, or other inquiries regarding an applicant's arrest and conviction record, as defined herein.
2. Refrain from asking an applicant in any manner about their arrest or conviction record until after conditional offer of employment is made to the applicant in question.
3. Refrain from conducting a formal or informal background check or making any other inquiry using any privately or publicly available means of obtaining the arrest or conviction record of an applicant until after a conditional offer of employment is made to the applicant in question.
4. Make information about this ordinance available to applicants and existing employees, and post notices in prominent locations at the workplace with information about the ordinance and complaint procedure using language provided by the City.
5. Comply with all other provisions of Sec. 39.08, MGO.

C. **Exemptions:** This section shall not apply when:

1. Hiring for a position where certain convictions or violations are a bar to employment in that position under applicable law, or
2. Hiring a position for which information about criminal or arrest record, or a background check is required by law to be performed at a time or in a manner that would otherwise be prohibited by this ordinance, including a licensed trade or profession where the licensing authority explicitly authorizes or requires the inquiry in question.

To be exempt, Contractor has the burden of demonstrating that there is an applicable law or regulation that requires the hiring practice in question, if so, the contractor is exempt from all of the requirements of this ordinance for the position(s) in question.

ARTICLE 103 AWARD AND EXECUTION OF THE CONTRACT

The Contractor shall execute signing of the contract completely prior to **September 6, 2016**. No exceptions or extensions to the above date will be permitted.

ARTICLE 104 SCOPE OF WORK

This contract is for the removal of hazardous materials prior to building demolition of the former Cub Foods located at 4141 Nakoosa Trail. Work shall include all items as identified in the asbestos inspection report provided as Exhibit E in these Special Provisions.

The scope of work includes the furnishing of all labor, materials, equipment, tools, and other services necessary to complete the work in accordance with the intent of this contract. The Contractor shall use properly functioning equipment capable of performing the tasks required. The Contractor shall furnish workers who perform quality work and who are experienced and knowledgeable in the work proposed.

In addition the Contractor shall include all costs of permits, disposal, equipment rental, and any other costs whatsoever which may be required for the removal of all hazardous materials in accordance with the intent of this contract.

The City of Madison's abatement consultant will file the WI DNR 4500-113 notification form.

SECTION 104.1 LANDS FOR WORK

All lands for work shall be located at 4141 Nakoosa Trail, formerly known as the Cub Foods grocery store, now owned by the City of Madison for the future Fleet Service Facility. The exterior project limits shall be any sufficient space as required for the safe and efficient removal of hazardous materials as identified within this contract document. In no case shall the contractor be allowed to cross over any of the property lines, encroach on public sidewalks or obstruct the driveway and parking area.

SECTION 104.2 INTENT AND COORDINATION OF CONTRACT DOCUMENTS

The contract documents are complimentary of each other and consist of all of the following:

- The City Standard Specification, 2016 Edition
- These Special Provisions
- All Addendums to the bidding documents
- Any supplemental instructions, details, or specifications issued during the course of the contract.
- Exhibit A – Contract information
- Exhibit B – Asbestos, lead based paint, and other hazardous material inspection for 4141 Nakoosa Trail report dated December 23, 2015 by A&A Environmental, Inc.
- Exhibit C – 1 page of floor plans
- Exhibit D – Wisconsin Department of Administration Specification 02 82 13 Asbestos Abatement (02 82 13.docx) as linked form the WI-DOA website http://www.doa.state.wi.us/Default.aspx?Page=524f846f-f8e2-43f9-ae5e-e9f6839c45b3
- Exhibit E – HAZMAT Special Provisions

SECTION 105.3 AUTHORITY AND DUTIES OF THE INSPECTOR

The Contractor shall coordinate directly with any and all regulatory agencies having jurisdiction over the licensing, removal, permitting, inspection, and disposal of hazardous materials as described in these documents.

The City of Madison has retained a HAZMAT abatement consulting service to provide project oversight for this contract as follows:

- Verification of complete removal of all suspect materials. The HAZMAT abatement consulting service has representative authority for the City of Madison to require additional removal as needed if additional bid item materials are located during the execution of this contract.
    - In the event new suspect materials are noted during the execution of this contract and those new items cannot be associated with existing bid items a contract change order shall be negotiated between the Contractor and the City of Madison.
- On site verification of final quantities removed by bid item. This shall include measurements of SQUARE FOOT (SF) and LINEAL FOOT (LF) quantities, and physical count of EACH quantities, prior to disposal.
- The Contractor shall provide copies of all disposal documents to the HAZMAT abatement consulting service for verification.
- The Contractor shall provide copies of all air quality test reports to the HAZMAT abatement consulting service for verification.

SECTION 105.6: CONTRACTORS RESPONSIBILITY FOR WORK

The Contractor shall not take advantage of any discrepancy in the plans or specifications. This shall include but not be limited to apparent errors, omissions, and interpretations involving codes, regulations, and standards.

Any Contractor who identifies such a discrepancy during the bidding process shall notify the Architect of the discrepancy prior to the "Questions, Clarifications & Requests for Alternates Deadline" as indicated in Section A of the bid documents.

Any Contractor who identifies such a discrepancy during the abatement process shall immediately notify the City Project manager in writing and request clarification on how to proceed.

If a conflict exists within the Specifications or exists within the Drawings, the Contractor shall furnish the item, system, or workmanship, which is of the highest quality, largest, largest quantity or most closely fits the City's intent.

SECTION 105.12: COOPERATION BY CONTRACTOR

The Contractor shall be responsible for coordinating the following events as needed:

- Pre-Installation Meetings
- Progress Meetings
- Performance Testing Dates
- Final Air Quality Test Reports
- Commissioning Milestones
- Other related construction milestones as needed

Whenever possible these events shall be planned and coordinated during the Bi-weekly Construction Progress meetings but in no case shall an event be scheduled with less than three (3) working days notice.

The contractor shall be responsible for coordinating these events with the following personnel:

- Architect and sub-consultants
- City Project Manager and other City Staff
- Commissioning Representatives
- Sub-contractors as needed, this shall include any follow-on sub-contractor who may not be in the work flow but has a vested interest in access and installation.

Any corrections, relocations, or retesting required because the contractor did not properly coordinate the event with the required attendees shall be at the expense of the contractor.

SECTION 107.2 PROTECTION AND RESTORATION OF PROPERTY

The Contractor shall follow these general guidelines while performing work associated with this contract:

- Internal Demolition shall be allowed as needed to access/verify/remove all suspect materials as identified in this contract. Internal demolition does NOT need to be repaired in any manner, demolition materials do not need to be removed from the site provided no suspect materials are attached to the building materials in any way.
- Internal Utilities shall not be cut or removed. Suspect materials shall be completely removed from all internal utility system materials and all internal utility systems shall remain intact and fully functioning during the performance of this contract. This shall include but not be limited to all plumbing, heating, cooling and electrical components.
- External Demolition shall be allowed as needed to access/verify/remove all suspect materials as identified in this contract. The Contractor shall be responsible for providing and installing materials of sufficient quality and strength to provide temporary security/weather tightness/animal resistance until such time as the building can be fully demolished. This shall include but not be limited to 2x4 framing with 1/2" OSB for security and animal resistance. TYVEC/Visqueen/tarp or other such material shall be fastened to roof areas as needed for weather resistance. Weather proof materials shall be fastened as needed with furring strips to prevent accidental removal by wind. The Contractor shall be responsible for the neatly relocating demolition material to a location designated by the City Project Manager. Demolition material shall be tarped and weighted to resist being blown about by wind.

The Contractor shall be responsible for protecting all mature trees including limbs and braches during the removal of any external materials. This shall include the use of any equipment required to assist in proper removal of materials.

SECTION 107.4(i) INSURANCE FOR THE CONSTRUCTION OF BUILDINGS

The City will effect and maintain, Builder's Risk Insurance on a replacement cost basis in an amount equal to the estimated project cost. Coverage includes the building as well as materials stored on the site to be incorporated in the building, including form work in place, form lumber on site, temporary structures, equipment and supplies incidental to the construction of the building. The City's Builders Risk coverage is written on a per building basis and contains a $25,000 per occurrence deductible. If a loss under the City's Builders Risk policy is caused by the negligence of the Contractor or its Subcontractor(s), the Contractor will be responsible for paying the City's $25,000 deductible. The City Engineer has the authority to withhold such deductible from payments due to Contractor. In addition, City Engineer, in his/her sole authority, will determine whether the Contractor was negligent in causing the loss and therefore is responsible for the City's deductible.

The insured loss, if any, is to be adjusted with and payable to the City.

SECTION 109.7 TIME OF COMPLETION

Work shall begin only after the contract is completely executed and the start work letter is received. The City anticipates a start date of September 19, 2016

The contract removals shall be **COMPLETED NO LATER THAN October 7, 2016**. This shall include all minor punch list items, final Commissioning Inspections and all final copies of contract deliverables being submitted to the appropriate agency. This contract shall remain open throughout the removal contract and into the demolition contract until such time that the Owner and Consultant are reasonably sure that there will be no further discovery of any materials that may contain asbestos. This is estimated to be February 2017.

NON STANDARD BID ITEMS

NOTE: All non standard bid items are listed as they appear in the asbestos report and each indicates where they are referenced in the report. The proposal page shows the quantities of distinct like items as being combined totals.

BID ITEM 10001 – Black mastic under 12 x 12 floor tiles in the room south of the stairs near west entry

DESCRIPTION: BID ITEM 10001 shall include the complete removal of all suspected floor tile mastic from the site. Per the Asbestos Inspection Report dated December 23, 2015, on page 1, item 1, estimated quantity is 520 SF

The Contractor shall be responsible for all demolition required to completely access the floor tile mastic. The Contractor shall remove all 12 x12 floor tile as needed. The contractor does not need to repair any floors demolished for the completion of this bid item.

METHOD OF MEASUREMENT: BID ITEM 10001 shall be measured as square foot (SF) of floor tile mastic completely removed from the suspected areas as identified. Unit Price shall include any associated demolition per the description above.

BASIS OF PAYMENT: BID ITEM 10001 shall be paid at the contract unit price for the total square footage removed.

BID ITEM 10002 – Black mastic under 12 x 12 floor tiles in liquor store and offices

DESCRIPTION: BID ITEM 10002 shall include the complete removal of all suspected floor tile mastic as noted in the Asbestos Inspection Report dated December 23, 2015, on page 1, item 2, estimated quantity is 5,850 SF. The Contractor shall be responsible for all demolition required to completely

access the floor tile mastic. The Contractor shall remove all 12 x 12 floor tile as needed. The contractor does not need to repair any floors demolished for the completion of this bid item.

METHOD OF MEASUREMENT: BID ITEM 10002 shall be measured as SF (square feet) of floor tile mastic completely removed from the suspected areas as identified. Unit Price shall include any associated demolition per the description above.

BASIS OF PAYMENT: BID ITEM 10002 shall be paid at the contract unit price for the total square footage removed.

BID ITEM 10003 – Black floor coating and black floor tile mastic under 12 x 12 floor tile in the employee break room located north of the liquor sales area (may have been a different sales area). The black mastic is under yellow mastic

DESCRIPTION: BID ITEM 10003 shall include the complete removal of all suspected floor tile mastic as noted in the Asbestos Inspection Report dated December 23, 2015, on page 1, item 3, estimated quantity is 2,002 SF.

The Contractor shall be responsible for all demolition required to completely access the floor tile mastic. The Contractor shall remove all 12 x 12 floor tile as needed. The contractor does not need to repair any floors demolished for the completion of this bid item.

METHOD OF MEASUREMENT: BID ITEM 10003 shall be measured as SF (square feet) of floor tile mastic completely removed from the suspected areas as identified. Unit Price shall include any associated demolition per the description above.

BASIS OF PAYMENT: BID ITEM 10003 shall be paid at the contract unit price for the total square footage removed.

BID ITEM 10004 – Black floor mastic in second floor offices

DESCRIPTION: BID ITEM 10004 shall include the complete removal of all suspected floor tile mastic as noted in the Asbestos Inspection Report dated December 23, 2015, on page 1, item 4, estimated quantity is 3,428 SF.

The Contractor shall be responsible for all demolition required to completely access the floor tile mastic. The Contractor shall remove all floor covering as needed. The contractor does not need to repair any floors demolished for the completion of this bid item.

METHOD OF MEASUREMENT: BID ITEM 10004 shall be measured as SF (square feet) of floor tile mastic completely removed from the suspected areas as identified. Unit Price shall include any associated demolition per the description above.

BASIS OF PAYMENT: BID ITEM 10004 shall be paid at the contract unit price for the total square footage removed.

POINTS OF CONTACT

The Construction Manager for City Engineering, Facility Management for this contract is:

Dave Schaller
PH: (608) 243-5891
Email: dschaller@cityofmadison.com
210 Martin Luther King Jr Blvd
Room 115
Madison, WI 53703

The HAZMAT Consultant for this project is:

Kim Sopha
PH: (608) 240-1511, Cell: (608) 576-4960
A&A Environmental, Inc.
N4381 US HWY 51
Poynette, WI 53955

SECTION 02 82 13
ASBESTOS ABATEMENT
BASED ON DFD MASTER SPECIFICATION DATED 7/15/05(Rev10/1/2012)

PART 1 - GENERAL

SCOPE
Perform all operations in connection with asbestos abatement, encapsulation, removal and related work as shown on drawings and/or specified herein.

PART 1 - GENERAL
- Related work
- Description of Work
- References
- Qualifications
- Definitions
- Submittals and Notices
- Site Security
- Emergency Planning
- Preconstruction Meeting
- Delivery, Storage and Handling

PAR T 2- PRODUCTS
- Materials
- Equipment

PART 3 - EXECUTION
- General Compliance Measures
- Preparations of Regulated Area
- Decontamination Enclosure System
- Temporary Isolation Partitions
- Maintenance of Enclosure System
- Workplace Entry and Exit Procedures
- Waste Container Pass-Out Procedure
- Water Collection and disposal
- Wet Removal Procedure
- Ceiling System Removal
- Pipe Tunnel or Crawl Space Removal Work
- Flooring Removal
- Small Scale - Short Duration Removal Procedure
- Encapsulation Procedures
- Enclosure Procedure
- Air Monitoring
- Cleanup Procedure
- Disposal Procedures
- Reestablishment of Regulated Area

RELATED WORK
See City of Madison Special Provisions, Section D of the contract documents.

DESCRIPTION OF WORK;

Removal; The Contractor shall remove all asbestos related items as noted in the contract documents. In the event additional items ore quantities are found in the field the contractor shall notify the City of Madison Construction Manager immediately and items shall also be removed under the contract.

Encapsulation; this section not used

Enclosure; this section not used

Contractor is responsible for Electrical work and permit as needed

Restoration: Refer to section 107.2 of the Special Provisions, Section D of the contract documents.

REFERENCES

General Reference:

All work under this contract shall be done in strict accordance with all applicable General and State regulations, standards and codes governing asbestos abatement and any other trade work done in conjunction with the abatement.

The most recent edition of any relevant regulation in force at the time of bid opening shall be in effect. Where conflict among the laws, rules, and regulations or with these specifications exists the most stringent requirements shall be utilized.

The Contractor shall make available, in the clean change area of the worker decontamination system, copies of this specification and all standards, regulations, and codes listed hereinafter.

Specific Reference:

Occupational Safety and Health Administration (OSHA):

Title 29 Code of Federal Regulations, Section 1910.134(d) - air Quality.

Title 29 Code of Federal Regulations, Section 1926.1101- Construction Industry, including the mandatory appendices;

Appendix A - OSHA Reference Method.

Appendix C - Qualitative and Quantitative Fit Testing Procedures.

Appendix D - Medical Questionnaires.

Appendix E - Interpretation and Classification of Chest Roentgenograms.

Nonmandatory appendices:

Appendix B - Detailed Procedures for Asbestos, Tremolite, Anthrophyllite, and Actinolite Sampling and Analysis.

Appendix F - Work Practices and Engineering Controls for Major Asbestos Removal, Renovation, and Demolition Operations.

Appendix G - Work Practices and Engineering Controls for Small Scale, Short Duration Asbestos Renovation and Maintenance Activities.

Appendix H - Substance Technical Information for Asbestos.

Appendix I - Medical Surveillance Guidelines for Asbestos, Tremolite, Anthrophyllite, and Actinolite.

Title 29 Code of Federal Regulations, Section 1926.59 - Hazard Communication Standard. Requires employers to inform their workers of the hazards of any chemicals used on the project and to train their employees in proper safeguards.

Environmental Protection Agency (EPA): Title 40 Code of Federal Regulations (CFR) Part 763 Subpart G - Asbestos Abatement Projects; worker Protection (effective March 27, 1987).

Environmental Protection Agency (EPA) Title 40 Code of Federal Regulations (CFR) Part 61 - National Emission Standards for Hazardous Air Pollutants; Asbestos NESHAP Revision; Final Rule effective November 20, 1990.

Department of Health Services (H & SS) State of Wisconsin Administrative Rule, Chapter HSS 159, Asbestos Certification and Training.

Department of Natural Resources (DNR) State of Wisconsin Administrative Rule, Chapter NR 447, procedures for preventing emissions of particulate asbestos material to outside air, warning signs and waste disposal of asbestos materials.

Compressed Gas Association, Inc., New York, Pamphlet G-7, "Compressed Air for Human Respiration", and Specification G-7.1 "Commodity Specification for Air".

Department of Natural Resources (DNR) State of Wisconsin Administrative Rule Chapter NR 506, Landfill Operations Criteria for Disposal of Asbestos Containing Material.

QUALIFICATIONS

The prospective Contractor who is proposed to actually perform the asbestos abatement work, shall submit to the City of Madison Construction Manager the data hereinafter requested within ten (10) days after Bid Opening.

The proposed asbestos abatement Contractor will be awarded a Contract, only if data submitted is determined to be favorable in all instances, by the City of Madison Construction Manager, and the prospective Contractor further meets the qualifications requirements specified in the Instructions to Bidders.

The proposed asbestos abatement Contractor shall, if requested:

Demonstrate prior experience on asbestos abatement projects of similar nature and scope of that being bid, through the submission of letters of reference from building owners including the name, address, and telephone numbers of the contact persons who are specifically familiar with the referenced projects. At least three previous users of this service shall be submitted. Include descriptions of projects and records of all air monitoring data that was generated during the projects.

Submit a description of all major Asbestos Abatement Equipment owned by the prospective Contractor which is available for use on this project such as:

Respiratory protection equipment.

HEPA vacuum equipment.

Negative air pressure equipment.

Spray equipment for amended water.

Equipment used for shower facilities in decontamination enclosure system.

Submit a list of names, work responsibilities and evidence of certification for all employees that will be assigned to this project:

At least one firm principal, the firm's "competent person" and any other personnel performing supervisory duties must be certified by the Wisconsin Department of Health Services as having successfully completed a comprehensive 5-day course for Asbestos Abatement Contractors and Supervisors in conformance with Wisconsin Administrative Code DHS 159.

Contractor's employees who perform asbestos abatement activities must be certified by the Wisconsin Department of Health Services as having successfully completed a

comprehensive 4-day course for Asbestos Abatement Workers in conformance with Wisconsin Administrative Code DHS 159.

DEFINITIONS

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

Air Monitoring: The process of measuring the fiber content of a known volume of air collected during a specific period of time shall conform with Appendix A to OSHA 29 CFR 1926.1101 The procedure normally utilized for asbestos follows the NIOSH Standard Analytical Method 7400 for Asbestos in Air. For clearance air monitoring, electron microscopy methods may be utilized for lower detect ability limit and specific fiber identification.

Air Sampling Professional: The Professional contracted or employed by the Division to supervise and conduct air monitoring and analysis schemes. This individual shall not be affiliated in any way other than through this contact with the Contractor performing the abatement work.

ANSI: American National standards Institute

Asbestos: Means the asbestiform varieties of chrysotile (serpentine); crocidolite (riebeckite); amosite (cummingtonite-grunerite); tremolite; anthrophyllite, and actinolite.

Asbestos Containing Material (ACM): Material composed of asbestos of any type and in an amount greater than 1%, either alone or mixed with other fibrous or nonfibrous materials.

Asbestos Containing Waste Material: Asbestos containing material or asbestos contaminated objects requiring disposal.

ASTM: American Society for Testing and Materials

Authorized Visitor: The Building Owner (and designated representatives) and any representative of a regulatory agency having jurisdiction over the project.

Certified Industrial Hygienist (CIH): An industrial hygienist certified in Comprehensive Practice by the American Board of Industrial Hygiene.

Competent Person: Means an employee of the asbestos abatement contractor who is capable of identifying existing asbestos hazards in the workplace and who has the authority to take prompt corrective measures to eliminate them pursuant to OSHA 1926.1101(b).

Decontamination Enclosure: A decontamination system consisting of a clean room, a shower room, and an equipment room separated from each other and from the regulated area by airlocks. This system is used for all workers to enter and exit the regulated area and may also serve as equipment and waste pass out on small jobs.

Department of Natural Resources (DNR): A Wisconsin state agency that is responsible for enforcement of Chapter NR 447.

Encapsulation: The application of a bridging or penetrating liquid material to asbestos containing materials to control the release of asbestos fibers into the air. The bridging liquid material creates a membrane over the surface and the penetrating liquid material seeps through the surface and binds all components together.

Enclosure: The construction of an airtight, impermeable, permanent barrier around asbestos containing material to control the release of asbestos fibers into the air.

EPA: U. S. Environmental Protection Agency

Glovebag Technique: A method with limited applications for removing small amounts of friable asbestos-containing material from ducts, short piping runs, valves, joints, elbows, and other nonplanar surfaces in a noncontained (plasticized) regulated area. The glovebag is constructed and installed in such

a manner that it surrounds the object or material to be removed and contains all asbestos fibers released during the process.

HEPA Filter: A high efficiency particulate air filter capable of removing particles 0.3 microns in diameter with 99.97% efficiency.

HEPA Vacuum: A vacuum system equipped with HEPA filtration.

NESHAPS National Emission Standards for Hazardous Air Pollutants

OSHA: The Occupational Safety and Health Administration

Permissible Exposure Limits (PELS): No personnel associated with asbestos abatement work shall be exposed to an airborne concentration of asbestos in excess of the following limits, as determined by the method prescribed in Appendix A to OSHA 29 CFR 1926.1101, or by an equivalent method:

P.E.L. is 0.1 fiber per cubic centimeter of air as an eight (8) - hour time-weighted average.

Excursion Limit (EL) 1.0 fiber per cubic centimeter of air as averaged over a sampling period of thirty (30) minutes.

Regulated Area: An area identified by specific boundaries where airborne concentrations of asbestos exceed, or can reasonably be expected to exceed the P.E.L. and/or Excursion Limit. The regulated area may take the form of:

A temporary negative-pressure enclosure, or

An area specifically identified and segregated in any manner that minimizes the number of employees exposed to asbestos.

Surfactant: A chemical wetting agent added to water to improve penetration.

Visible Emissions: Any emissions containing particulate asbestos material that is visually detectable without the aid of instruments. This does not include condensed uncombined water vapor.

Wet Cleaning: The process of eliminating asbestos contamination from building surfaces and objects by using cloths, mops, or other cleaning utensils which have been dampened with water and afterwards thoroughly decontaminated or disposed of as asbestos contaminated waste.

SUBMITTALS AND NOTICES

The Contractor shall submit a completed Asbestos/Lead Abatement Certification (Form #DOA-4509) no later than the end of the seventh calendar day after the bid opening date.

Prior to Commencement of Work, Contractor shall:

File a "Notification of Demolition and/or Renovation Form 4500-113" with the parties named hereinafter, when required, at least 10 working days prior to commencement of demolition or renovation project involving any asbestos-containing material.

Air Management Asbestos Coordinator
Department of Natural Resources
P.O. Box 7921
Madison WI 53707-7921

File a "Asbestos Project Notification Form 00041" with the parties named hereinafter, when required, at least 2 working days prior to commencement of renovation project involving any asbestos-containing material.

Department of Health Services

Asbestos/Lead Section, Room 137
P.O Box 2659
Madison, WI 53701-2659

Submit the following documentation attached to completed form DOA-4523 prior to commencing work:

Manufacturer's information and MSDS for the mastic remover that the Contractor intends to use for floor tile mastic removal. Mastic remover shall be low odor and shall not contain known carcinogens.

A copy of the asbestos training certification card issued by Wisconsin Department of Health and Family Services pursuant to DHS 159 for all Contractor employees that will be working on the project.

Submit the following documentation at completion of the work:

Copies of all completed "Transportation and Disposal Manifest" forms for all asbestos waste materials removed from the regulated area during the abatement process.

Project Log per DHS 159.21(2)

Occupant Protection Plan per DHS 159.21(3).

During Abatement Activities, Contractor shall submit to the Owners Project Representative, if requested:

Shop drawings for layout and construction of decontamination enclosure systems and barriers for isolation of the regulated area as detailed in this specification and required by applicable regulations. If work is to be phased, a phasing schedule shall also be submitted.

Weekly (or as required) job progress reports detailing abatement activities. Include review of major problems and action taken, injury reports, equipment breakdown.
Logs documenting filter changes on respirators, HEPA vacuums, negative pressure ventilation units, local exhaust ventilation systems, and other engineering controls.

Results of bulk material analysis and air sampling data collected during the course of the abatement including OSHA compliance air monitoring results.

Results of materials testing conducted during the abatement for purposes of utilization during abatement activities (e. g., testing of encapsulant for depth of penetration, testing of materials for adherence to encapsulated surfaces).

Contractor shall post at the entrance to the regulated area a list containing the names, addresses, and telephone numbers of the Contractor, Fire Department and any other personnel who may be required to be contracted during abatement activities.

SITE SECURITY

Contractor shall be responsible for the security of the regulated area(s) during abatement operations in order to protect work efforts and equipment.

The regulated area shall be restricted to only authorized, trained, and protected personnel. These may include the Contractor's employees, employees of subcontractors, state representatives, and any other designated individuals. A list of authorized personnel shall be established prior to job start and posted in the clean room of the decontamination facility.

Contractor shall immediately decontaminate (if required) and evict any unauthorized individual entering the regulated area and notify the Construction Representative of action taken and identity of the unauthorized individual.

A log book shall be maintained in the clean room area of the decontamination system. Anyone who

enters the regulated area must record name, affiliation, time in, and time out for each entry.

Access to the regulated area shall be through a single decontamination system located where shown on approved Shop Drawings. All other means of access (doors, windows, hallways, etc.) shall be blocked or locked so as to prevent entry to or exit from the regulated area. The only exceptions to this rule are the waste pass-out air lock which shall be sealed except during the removal of containerized asbestos waste from the regulated area, and emergency exits in case of fire or accident. Emergency exits shall not be locked from the inside, however, they shall be sealed with polyethylene sheeting and tape until needed.

EMERGENCY PLANNING

Written emergency plan shall be submitted through the Owners Project Representative and approved by the City of Madison Construction Manager prior to the initiation of abatement activities.

Emergency procedures shall be in written form and prominently posted in the clean change area and equipment room of the worker decontamination area. Everyone prior to entering the regulated area must read and sign these procedures to acknowledge receipt and understanding of work site layout, location of emergency exits and emergency procedures.

Emergency planning shall include notification of police, fire and emergency medical personnel of planned abatement activities, work schedule and layout of regulated area, particularly barriers that may affect response capabilities.

Emergency planning shall include considerations of fire, explosion, toxic atmospheres, electrical hazards, slips, trips and falls, confined spaces and heat related injury. Written procedures shall be developed and employee training in procedures shall be provided.

Employees shall be trained in evacuation procedures in the event of workplace emergencies under the following conditions:

For non-life threatening situations, employees injured or otherwise incapacitated shall decontaminate following normal procedures with assistance from fellow workers if necessary, before exiting the workplace to obtain proper medical treatment.

For life threatening injury or illness, worker decontamination shall take least priority, after measures to stabilize the injured worker, remove the worker from the workplace and secure proper medical treatment.

Telephone numbers of all emergency response personnel shall be prominently posted in the clean change area and equipment room, along with the location of the nearest telephone.

PRECONSTRUCTION MEETING

The Contractor shall attend a preconstruction meeting to be conducted at a time and place designated by the Owners Project Representative. All parties having an active role in asbestos abatement will be in attendance.

The Contractor, Contractor's competent person and other supervisory personnel who will provide on-site direction of the abatement activities must attend.

At this meeting the Contractor shall provide all documentation as required by Article entitled: "Submittals and Notices," herein. In addition, the Contractor shall be prepared to provide detailed information concerning:

Preparation of regulated area.

Personal protective equipment including respiratory protection and protective clothing.

Employees who will participate in the project, including delineation of experience, training, certification, and assigned responsibilities during the project.

Decontamination procedures for personnel, regulated area and equipment.

Abatement methods and procedures to be utilized.

Required air monitoring procedures.

Procedures for handling and disposing of waste materials.

Procedures for final decontamination and cleanup.

A sequence of work and performance schedule.

Procedures for dealing with heat stress.

Emergency procedures.

Methods of adhering plastic sheeting to the surfaces to be covered.

DELIVERY, STORAGE AND HANDLING

Deliver all materials in the original packages, containers or bundles bearing the name of the manufacturer and the brand name.

Damaged, deteriorating or previously used materials shall not be used and shall be removed from the work site and disposed of properly.

PART 2 - PRODUCTS

MATERIALS

Polyethylene sheeting for walls and stationary objects shall be a minimum of four (4) mil thick. For floors and all other uses sheeting of at least six (6) mil thickness shall be used in widths selected to minimize the frequency of joints.

Polyethylene sheeting utilized for decontamination enclosure shall be opaque white or black in color.

Flame retardant polyethylene sheeting shall be utilized when working near heat sources.

Hardboard or plywood, minimum 1/4 inch thick shall be furnished to protect finished floor surfaces such as carpet or hardwood floors to prevent damage from scaffolds or falling objects. Such protection shall also be provided for polyethylene sheeting under the scaffold area if the material being removed has sharp projections which could readily puncture the enclosure material.

Disposal bags shall be of six (6) mil polyethylene, preprinted with labels as required by OSHA Requirement 29 CFR 1926.1101 (k) (8).

Disposal drums for transporting disposal bags shall be metal or fiberboard with locking ring tops.

Stick-on labels as per EPA, OSHA or DNR requirements for disposal containers.

Surfactant (Wetting Agent):

For use with materials containing asbestos identified as "Amosite", shall be a 50/50 mixture of polyoxyethylene ether and polyoxyethylene ester, mixed in a proportion of one (1) fluid ounce to five (5) gallons of water or as specified by manufacturer.

For all materials containing asbestos identified as "chrysotile", "crocidolite", or types other than Amosite, shall consist of soapy water mixed in a proportion of two (2) fluid ounces of liquid soap to five (5) gallons of water.

Where regulated area temperature may cause freezing of the amended water solution, the addition of ethylene glycol in amounts sufficient to prevent freezing is permitted.

Asbestos Removal Encapsulant (substitute for surfactant): In lieu of using a wetting agent in water to control airborne fibers, and asbestos removal encapsulant may be used. Products that meet these needs are: Serpiflex Shield manufactured by International Protective Coatings Carol 725 Carol Ave., Ocean, NJ 07710; and BWE 5000, by Better Working Environments, Inc., 3716 Scripps Way, Las Vegas, NV 89103; or an approved equal.

Encapsulating Material:

Bridging type encapsulant (for sealing masonry and concrete walls, barrier surfaces during cleanup phase and asbestos containing surfaces to remain in place) shall be capable of being applied with airless spray equipment, able to withstand light impact or abrasion without releasing fibers, water insoluble when cured, and must retain sufficient integrity after six (6) years to allow recoating. Products that meet these requirements are: Cable Coating No. 2B by American Coating Corporation and Decadix Fire Check by Pentagon Plastics.

Penetrating type encapsulant (for sealing scratch coat plaster, wood grounds and wood blocking which have been in contact with asbestos containing material and also exposed ends of pipe insulation) shall not be noxious or toxic to applicator or subsequent occupants, shall have high flame retardance and low toxic fume and smoke emission ratings, shall have some permeability to water vapor to prevent condensation accumulation. Acceptable products are Cafco-Bond-Seal by U.Sl Mineral, Protector Sealant (32-20 and 32-21) by H.B. Fuller Co., and SK-13 Emulsion by National Cellulose.

EQUIPMENT

Negative Pressure Ventilation Units:

A sufficient quantity of negative pressure ventilation units equipped with HEPA filtration and operated in accordance with ANSI Z9.2-79 (local exhaust ventilation requirements) and EPA guidance document EPA 560/5-83-002 Guidance for Controlling Friable Asbestos-Containing Material in Buildings Appendix F: Recommended Specifications and Operating Procedures for the Use of Negative Pressure Systems for Asbestos Abatement shall be utilized so as to provide one workplace air change every 15 minutes.

To calculate total air flow requirement:

$$\text{Total Ft}^3\text{/Min.} = \frac{\text{Volume of Regulated area (in Ft}^3\text{)}}{\text{15 Min.}}$$

To calculate the number of units needed for the abatement:

$$\text{Number of Units Needed} = \frac{\text{Total Ft}^3\text{/Min.}}{0.75(\text{Capacity of Unit in Ft}^3\text{/Min.})}$$

The air filtering equipment shall be capable of filtering asbestos fibers at 0.3 um at 99.9 percent efficiency. Prefilters, which protect the final filter by removing the larger particles, are required to prolong the operating life of the HEPA filter. Two stages of prefiltration are required. The first-stage prefilter shall be a low efficiency type (e.g., for particles 10 um and larger). The second-stage (or intermediate) filter shall have a medium efficiency (e.g., effective for particles down to 5 um). Prefilters and intermediate filters shall be installed either on or in the intake grid of the unit and held in place with special housings or clamps.

Exhaust air from the regulated area shall maintain a negative pressure of 0.02 inches of water (head). The ventilation shall operate on a 24 hours basis throughout the abatement process until final clearance has been approved.

63 Air Purifying Respirators:

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Respirator bodies shall be of half face or full face type with removable cartridges. Single use, disposable or quarter face respirators shall not be used. Full face respirators shall be equipped with a nose cup or other anti fogging devices as would be appropriate for use in air temperatures less than 32 degrees F.

Filter cartridges shall, at a minimum, be HEPA type filters certified by NIOSH under 30 CFR Part 11 or with filters certified for particulates under 42 CFR Part 84.

Supplied Air Respirator System:

The equipment used shall be capable of producing air of the quality and volume required by OSHA Standard (29 CFR 1910) Section 1910.134 and Compressed Gas Association, Inc., New York, Pamphlet G-7, "Compressed Air for Human Respiration", and Specification G-7.1 "Commodity Specification for Air", applied to the job site conditions and crew size. The standards above shall be augmented by provisions of this specification with the more stringent standard governing.

Face piece and hose shall be by same manufacturer and shall be certified by NIOSH/MSHA as an approved Type "C" respirator assembly for continuous flow or pressure demand with a positive pressure face piece.

Backup air supply shall be provided that is adequate to allow a minimum of one-half hour escape time for each six man crew. The one-half hour shall be based upon all connections to the backup air supply being in use by an average sized adult male engaged in moderately strenuous activity or by the air requirements of the particular respirator in use is greater.

Warning device shall be located in the regulated area which will be clearly audible in all parts of the regulated area and can be heard above the noise level produced by equipment and work procedures in use. This warning device shall warn of:

Compressor shutdown or other fault requiring use of backup air supply.

Carbon Monoxide (CO) levels in excess of 50 PPM/V over 8 hours.

Carbon Monoxide (C)) levels shall be continually monitored and recorded. This monitor shall be placed in the air line between backup air supply and workers and shall also sound an alarm as specified under "Warning Devices".

The compressor shall automatically be shutdown and the alarms sounded if any of the following occur:

Carbon Monoxide (CO) concentrations exceed 500 PPM/V in the air line between the filter bank and backup air supply.

Compressor temperature exceeds normal operating range.

Compressor motor shall be an electric motor. Compressors driven by gas or diesel engines shall not be used.

An after cooler shall be provided at the entry to the filter system which is capable of reducing temperatures to outside ambient air temperatures.

System configuration shall permit the recharging of 1/2 hours 2260 PSI SCBA cylinders.

Compressed air systems shall be designed to provide air volumes and pressures to accommodate respirator manufacturer's specifications. The compressed air systems shall have a receiver of adequate capacity to allow escape of all respirator wearers from contaminated areas in the event of compressor

failure. Compressors must meet the requirements of 29 CFR 1910.134 (d). Compressors must have an in-line carbon monoxide monitor; periodic inspection of the carbon monoxide monitor must be evidenced. Documentation of adequacy of compressed air systems/respiratory protection system must be retained on site. This documentation will include a list of compatible components with the maximum number and type of respirators that may be used with the system. Periodic testing of compressed air shall insure that systems provide air of sufficient quality (Grade D breathing air as described in Compressed Gas Association Commodity Specifications G-7.1).

Full body disposable protective clothing, including head, body and foot coverings consisting of material impenetrable by asbestos fibers (Tyvek^{R} or equivalent) shall be provided to all workers and authorized visitors in sizes adequate to accommodate movement without tearing.

Additional safety equipment, such as hard hats meeting the requirements of ANSI Standard Z89.1-1981, eye protection meeting the requirements of ANSI Standard Z87.1-1979, safety shoes meeting the requirements of ANSI Standard Z41.1-1967, disposable PVC gloves, as necessary, shall be provided to all workers and authorized visitors.

Nonskid footwear shall be provided to all abatement workers. Disposable clothing shall be adequately sealed to the footwear to prevent body contamination.

Provide sufficient supply of disposable mops, rags and sponges for work area decontamination.

Provide scaffolds, ladders, lifts and hand tools such as scrapers, wire cutters, brushes, utility knives, wire saws, as the work requires.

Sprayers with pumps capable of providing 14-15 pounds per square inch (psi) at the nozzle tip at a flow rate of 2 gallons per minute for spraying amended water.

Rubber dust pans and rubber squeegees shall be provided for cleanup.

Brushes utilized for removing loose asbestos containing material shall have nylon or fiber bristles, not metal.

A sufficient supply of HEPA filtered vacuum systems shall be available during cleanup.

Airless spray equipment with an adjustable low pressure nozzle shall be provided for spraying encapsulants. Nozzle tip size and pressure adjustment shall conform to encapsulant manufacturers written recommendations.

Heavy duty power cables for temporary electrical service and a portable electric generator for maintaining negative pressure in the work area in case of power failure.

Warning Signs and Labels: As required OSHA Regulation 29 CFR 1926.1101(k).

Other equipment the Contractor deems necessary for asbestos abatement work shall be submitted to the City of Madison Construction Manager for approval prior to their use.

PART 3 - EXECUTION

GENERAL COMPLIANCE MEASURES

Mandatory Protection Conditions: Contractor's employees shall wear appropriate respiratory protection and protective clothing under the following conditions:

During installation or implementation of engineering work practices and control measures.

During maintenance and repair activities for which control measures, hereinafter described, are not feasible.

Whenever the control measures are not yet sufficient to reduce exposure below the Permissible Exposure Limits (TWA and/or Excursion Limits).

Whenever emergency conditions exist.

Control Measures: The Contractor shall use one or any combination of the following control methods to achieve compliance with the "Permissible Exposure Limits" defined hereinbefore:

Local exhaust ventilation equipped with HEPA filter dust collection systems.

General dilution ventilation equipped with HEPA filtration systems on both exhaust and return air.

Vacuum cleaners equipped with HEPA filters.

Enclosure or isolation of processes producing airborne asbestos fibers and dust.

Use of wet methods, wetting agents or removal encapsulants to control employee exposures during their performance of asbestos abatement activities. Where wet methods would result in equipment damage or a safety hazard, dry removal is allowed with written approval from WDNR pursuant to NR447.08(3)(b).

Prompt disposal of wastes contaminated with asbestos in leak-tight containers.

Supplement to Control Measures: Whenever the control measures described above are not sufficient to reduce the employee exposure to or below the "Permissible Exposure Limits" (TWA and/or Excursion Limit), the Contractor shall continue to use the control measures to maintain the employee exposure to the lowest levels attainable and supplement them with the use of appropriate respiratory protection and protective clothing.

Negative-Pressure Enclosure: A negative-pressure enclosure shall be employed whenever feasible, prior to commencing removal, demolition and renovation operations involving asbestos containing materials.

Types of Respiratory Protection: The following Table represents the minimum respiratory protection required for given airborne concentrations of asbestos:

Airborne Concentration of Asbestos, Tremolite, Anthophylite, Actinolite, or a Combination of These Minerals	Required Respirator
Not in excess of 1 f/cc (10 X PEL)	1. Half-mask air purifying respirator equipped with high-efficiency filters.
Not in excess of 5 f/cc (50 X PEL)	1. Full faceplate air purifying respirator equipped with high-efficiency filters.
Not in excess of 10 f/cc (100 X PEL)	1. Any powered air purifying respirator equipped with high efficiency filters. 2. Any supplied air respirator operated in continuous flow mode.
Not in excess of 100 f/cc (1000 X PEL)	1. Full face piece supplied air respirator operated in pressure demand mode.
Greater than 100 f/cc (1,000 X PEL) or unknown concentration	1. Full face piece supplied air respirator operated in pressure demand mode equipped with an auxiliary positive pressure self-contained breathing apparatus.

NOTE: Respirators assigned for higher environmental concentrations may be used at lower concentrations.

A high-efficiency filter means a filter that is at least 99.97 percent efficient against mono-dispersed particles of 0.3 micrometers in diameter or larger.

Employee Rotation: The Contractor shall not use employee rotation as a means of compliance with Permissible Exposure Limits (TWA and/or Excursion Limit).

Supervision: The Contractor shall have a project supervisor on site at all times that only supervises the project and is responsible to assure contract and regulatory compliance.

PREPARATION OF REGULATED AREA

Post the following warning signs at all approaches to a regulated area per OSHA 1926.110(k)(7). Signs shall be posted at a distance sufficiently far enough away from the regulated area to permit any person to read the sign and take the necessary protective measures before entering the area marked by the signs.

DANGER

ASBESTOS

CANCER AND LUNG DISEASE HAZARD

AUTHORZIED PERSONNEL ONLY

Post the Occupant Protection Plan at the entrance to the regulated area per DHS 159.21(3).

Post at the entrance to the regulated area a list containing the names, addresses and telephone numbers of the Contractor, Fire Department and any other personnel who may be required to be contacted during abatement activities.

Maintain Project Log per DHS 159.21(2).

Shutdown and lock out all heating, cooling and air conditioning system (HVAC) components that are in, supply or pass through the regulated area. Appropriate equipment and control measures shall be utilized to prevent contamination of building spaces. Seal all intake and exhaust vents in the work area with tape and two layers of 6 mil polyethylene. Also seal any seams in system components that pass through the regulated area.

All electrical circuits to the area in which asbestos abatement work is to take place must be disconnected. The regulated area and other uncontaminated areas that were dependent on the disconnected electrical circuits shall be serviced by a temporary electrical service provided by owner. In accordance with the latest issue of the National Electrical Code, temporary electrical service shall be equipped with combination ground fault interrupted and circuit breakers meeting the requirements of UL for Class A, Group 1 devices. The ground fault interrupter portion shall be solid state type, insulated and isolated from the breaker mechanism. A test mechanism shall provide overload and short circuit protection and shall be operated by a toggle switch with over-center switching mechanism so that contact cannot be held closed.

Preclean all movable objects within the regulated area using a HEPA filtered vacuum or wet cleaning methods as appropriate. After cleaning, these objects shall be removed from the regulated area and carefully stored in an uncontaminated location.

Preclean all fixed objects in the regulated area using HEPA filtered vacuums or wet cleaning techniques as appropriate, if contamination is visibly covering them. Careful attention must be paid to machinery and behind grills or gratings where access may be difficult but contamination significant. Also pay particular attention to wall, floor and ceiling penetrations behind fixed items. After precleaning, enclose fixed objects in four (4) mil polyethylene sheeting and seal securely in place with tape.

Preclean all surfaces in the regulated area using HEPA filtered vacuums and/or wet cleaning methods as appropriate. Do not use any methods that would raise dust such as dry sweeping or vacuuming with equipment not equipped with HEPA filters. Do not disturb asbestos containing materials during the precleaning phase.

Seal off all windows, doorways, elevator openings, corridors, tunnels, entrances, drains, ducts, grills, grates, diffusers, skylights and any other openings between the regulated area and uncontaminated areas outside of the regulated area (including the outside of the building, tunnels and crawl spaces) with four (4) mil polyethylene sheeting and tape.

Wall Covering:

Where surfacing materials are being removed from overhead, walls shall be covered with two (2) layers of four (4) mil polyethylene sheeting, starting at top of wall and extending down and across the floor area until it meets in the center of the floor. Here the covering sheets shall be taped together to form a monolithic covering which completely encases the regulated area.

Polyethylene sheets shall be sized to minimize seams. Seams shall be staggered and separated by a distance of at least six (6) feet.

Wall sheeting shall be secured adequately to prevent it from falling away from the walls. This may require additional support/attachment when negative pressure ventilation systems are utilized.

Floor Covering:

The floor area which has previously been covered with sheeting extended from the walls, shall be covered with one additional layer of six (6) mil (minimum) sheeting. Provide additional protection such as plywood, canvas, or extra plastic sheeting for floors requiring special protection such as carpeting, hardwood flooring and tile floors which may be damaged by water leakage, ladder feet or scaffold wheels. Additional layers of sheeting may be utilized as drop cloths to aid in cleanup of bulk materials.

Polyethylene sheets shall be sized to minimize seams. If the floor area necessitates seams, those on successive layers of sheeting shall be staggered to reduce the potential for water to penetrate to the flooring material. A distance of at least six (6) feet between seams is sufficient. Do not locate any parallel seams at wall/floor joints.

Floor sheeting shall extend at least 24" up the side walls of the work area.

DECONTAMINATION ENCLOSURE SYSTEM

A decontamination enclosure system shall be provided at each location where workers will enter or exit a regulated area.

Plans for construction, including materials and layout, shall be submitted as shop drawings and approved by the City of Madison Construction Manager prior to work initiation. Decontamination enclosure systems constructed at the work site shall utilize six (6) mil opaque black or white polyethylene sheeting or other acceptable materials for privacy. Detailed descriptions of portable, prefabricated units, if used, must be submitted for the City of Madison Construction Manager for approval. Plans must include floor plan with dimensions, materials, size, thickness, plumbing and electrical utilities.

The decontamination enclosure system shall consist of at least a clean room, a shower room, and an equipment room, each separated from each other and from the regulated area by air locks.

Entry to and exit from all airlocks and decontamination enclosure system chambers shall be through curtained doorways consisting of two sheets of overlapping six (6) mil polyethylene sheeting. The curtain doorway sheets shall be secured at the top and one side opposite each other. All curtains shall have weights attached to the bottom to insure that they hang straight and maintain a seal over the doorway when not in use. Doorway designs, providing equivalent protection and acceptable to the City of Madison Construction Manager may be utilized.

Access between any two rooms in the decontamination enclosure system shall be through an airlock with at least three (3) feet separating each curtained doorway. Pathways into (from clean to contaminated) and out from (contaminated to clean) the regulated area shall be clearly designated.

Clean room shall be sized to adequately accommodate the work crew. Clean disposable clothing, replacement filters for respirators, disposable towels and other necessary items shall be provided in adequate supply at the clean room. A location for postings shall also be provided in this area. Whenever possible, a lockable door shall be used to permit access into the clean room from outside the regulated area.

Shower room shall contain one or more shower heads as necessary to adequately accommodate workers. Each shower head shall be supplied with hot and cold water adjustable at the tap. The shower enclosure shall be constructed to insure against leakage of any kind. An adequate supply of soap and disposable towels shall be supplied by the Contractor and available at all times. Shower water shall be drained, collected and filtered as specified in the Article entitled: "Water Collection and Disposal," herein.

The equipment room shall be used for storage of equipment and tools at the end of a shift after workers have been decontaminated using a HEPA filtered vacuum and/or wet cleaning techniques as appropriate. Replacement filters (in sealed containers until used) for HEPA vacuums and negative pressure ventilation equipment, extra tools, containers or surfactant and other materials and equipment that may be required during the abatement may also be stored here as needed. A walk-off pan (a small children's swimming pool or equivalent filled with water) shall be located in the regulated area just outside the equipment room for workers to clean off foot coverings after leaving the regulated area and prevent excessive contamination of the worker decontamination enclosure system. A drum lined with a labeled six (6) mil

polyethylene bag for collection of disposable clothing shall be located in this room. Contaminated rubber boots or other reusable footwear shall be stored in this area for reuse the following workday.

Waste Container Pass-Out Airlock:

The waste container pass-out airlock shall be constructed at some location away from the worker decontamination enclosure system. Wherever possible, this shall be located where there is direct access from the regulated area to the outside of the building.

This airlock system shall consist of an airlock, a container staging area, and another airlock with access to outside the regulated area.

The waste container pass-out airlock shall be constructed in similar fashion to the worker decontamination enclosure system using similar materials and airlock and curtain doorway designs.

This airlock system shall not be used to enter or exit the regulated area. The airlock system shall be tightly sealed when not in use.

Emergency exits shall be established and clearly marked with duct tape arrows or other effective designations to permit easy location from anywhere within the regulated area. They shall be secured to prevent access from uncontaminated areas, but still permit emergency exiting. These exits shall be properly sealed with polyethylene sheeting which can be cut to permit egress if needed. These exits may be through the decontamination enclosure, the waste pass-out airlock, other alternative exits satisfactory to fire officials.

TEMPORARY ISOLATION PARTITIONS

Large rooms or open areas that require temporary air tight barriers to separate a contaminated regulated area from an uncontaminated area shall be provided with temporary partitions, constructed in the following manner:

Walls shall be constructed of wood or metal framing to support barriers in all openings larger than 4' x 8'.

A sheathing material (plywood, drywall) of at least 3/8" thickness shall be applied to work side of barrier.

Cover the work side of partition with a double layer of four (4) mil polyethylene sheeting with staggered joints and seal in place.

Provide at least one (12" x 12") window in the barrier system, where feasible, for the purpose of viewing into the regulated area. The window shall consist of heavy gauge plastic or clear safety glass. Panes shall be framed into the barrier system and completely sealed to prevent any leakage of air through the unit.

MAINTENANCE OF ENCLOSURE SYSTEM

Following completion of the construction of all polyethylene barriers and decontamination system enclosures, initiate negative pressure system and allow overnight settling to insure that barriers will remain intact and secured to walls and fixtures before beginning actual abatement activities.

All polyethylene barriers and decontamination enclosure systems shall be inspected at least twice daily by the Contractor's competent person prior to the start of each day's abatement activities and following the completion of the day's abatement activities. Document inspections and observations in the daily project log.

Damage and defects in the enclosure system are to be repaired immediately upon discovery.

Use smoke tubes to test the effectiveness of the barrier system when directed by Owners Project Representative.

Anytime during the abatement activities, if visible construction related dust or debris is observed outside of the regulated area or if damage occurs to barriers, work shall immediately stop, repairs shall be made to barriers, and debris/residue cleaned up using appropriate HEPA vacuuming and wet mopping procedures.

Openings made in the enclosure system to accommodate negative air pressure system shall be made airtight with tape and caulking as needed. If more than one unit is installed, they should be turned on one at a time, checking the integrity of wall barriers for secure attachment and need for additional reinforcement. Insure that adequate power supply is available to satisfy the requirements of the ventilating and exhaust units. Negative pressure units shall be exhausted to the outside of the building. They shall not be exhausted into occupied areas of the building. Careful installation and daily inspections shall be done to insure that the ducting does not release fibers into uncontaminated building areas.

Use of enclosure system shall not commence until the following has been accomplished:

Enclosure systems have been constructed, inspected, and tested.

Negative pressure systems are functioning adequately.

All pre-abatement submissions, notifications, postings and permits have been provided and approved by the City of Madison Construction Manager, as applicable.

All equipment for abatement, cleanup and disposal are on hand.

All worker training is completed.

Contractor has received written notice to commence abatement work from the Division, based on recommendation of the Owners Project Representative.

WORKPLACE ENTRY AND EXIT PROCEDURES

All workers and authorized personnel shall enter the regulated area through the decontamination enclosure system.

All personnel who enter the regulated area must sign the registration log, located in the clean room, both upon entry and exiting the area.

All personnel shall proceed first to the clean room, remove all street clothes, and appropriately don respiratory protection (as approved for the job conditions) and disposable coveralls, head covering and foot covering. Hard hats, eye protection and gloves shall also be utilized if required. Clean respirators and protective clothing shall be provided and utilized by each person for <u>each separate entry</u> into the regulated area.

Personnel wearing designated personal protective equipment shall proceed from the clean room through the decontamination enclosure system to the regulated area.

Before leaving the regulated area all personnel shall remove gross contamination from the outside of respirators and protective clothing by brushing or wet wiping procedures. (Small HEPA vacuums with brush attachments may be utilized for this purpose.) Each person shall clean bottoms of protective footwear in the walk-off pan just prior to entering the equipment room.

Personnel shall proceed to equipment room where they remove all protective equipment except respirators. Deposit disposable clothing into appropriately labeled containers for disposal.

Reusable, contaminated footwear shall be stored in the equipment room when not in use in the regulated area. Upon completion of abatement it shall be disposed of as asbestos contaminated waste. Rubber boots may be decontaminated at the completion of the abatement for reuse.

Still wearing respirators, personnel shall proceed to the shower area, clean the outside of the respirators and the exposed face area under running water prior to removal of respirator and shower and shampoo to remove residual asbestos contamination. Various types of respirators will require slight modification of these procedures. An airline respirator with HEPA filtered disconnect protection may be disconnected in the equipment room and worn into the shower. A powered air purifying respirator face piece will have to be disconnected from the filter/power pack assembly which is not waterproof, upon entering the shower. Cartridges must be in place for each new entry into the regulated area.

After showering and drying off, proceed to the clean room and don street clothing even though there will be later reentry into the regulated area or street clothes if it is the end of the work shift.

Workers shall NOT eat, drink, smoke, chew gum or tobacco in the regulated area. To eat, drink or smoke, workers shall follow the procedure described above, then dress in street clothes before entering the nonregulated areas of the building.

These procedures shall be posted in the clean room and equipment room.

WASTE CONTAINER PASS-OUT PROCEDURE

Asbestos contaminated waste that has been containerized shall be transported out of the regulated area through the waste container pass-out airlock (or through the decontamination enclosure if a separate airlock has not been constructed).

The inside team wearing protective clothing and respirators appropriate for the contaminated regulated area shall clean the entire surface, including bottoms, of properly labeled bags, using HEPA vacuums and wet wiping techniques and transport them into the waste container pass-out airlock where they will be placed into another properly labeled bag. No worker from the inside team shall further exit the regulated area through this airlock.

Workers from outside the regulated area wearing appropriately assigned respirators, shall enter the airlock from outside the regulated area. No worker from the outside team shall further enter the regulated area through this airlock.

The exit from this airlock shall be secured to prevent unauthorized entry.

WATER COLLECTION AND DISPOSAL

All water resulting from precleaning operation, excess from floor of regulated area and the final cleaning operation shall be collected and placed in sealed containers for disposal as contaminated material.

Water from the decontamination shower shall be collected in a holding tank and filtered to remove particles of 0.5 microns or larger size before draining water into sanitary sewer system. The drainage and filtering system shall consist of the following:

A centrifugal pump capable of pumping at least 25 gallons/minute.

Two filter cartridge housings, one serving as a prefilter, utilizing at least 6 cylindrical 100 micron filters (reusable type) and the other serving as final filter with 6 cylindrical 0.5 micron filters.

Maintain two sets (6 cylinders per set) of 100 micron filters, to allow one set to be cleaned while the other set is in use.

A common garden hose may be connected to final filter housing to drain water to sanitary sewer system.

WET REMOVAL PROCEDURE

Wet all asbestos containing material with an amended water solution, or removal encapsulant, using equipment capable of providing a fine spray mist, in order to reduce airborne fiber concentrations when the material is disturbed. Saturate the material to the substrate. Keep all removed material wet to prevent

fiber release until it can be containerized for disposal. If regulated area temperatures are below 32°F. and amended water is subject to freezing, modify as specified for surfactant in Article entitled: "Materials," herein. Maintain a high humidity in the regulated area by misting or spraying to assist in fiber settling and reduce airborne concentrations.

Saturated asbestos containing material shall be removed in manageable sections. Removed material should be containerized before moving to a new location for continuance of work. Surrounding areas shall be periodically sprayed and maintained in a wet condition until visible material is cleaned up.

Material removed from building structures or components shall not be dropped or thrown to the floor. Material should be removed as intact sections or components whenever possible and carefully lowered to the floor. If this cannot be done for materials greater than 50 feet above the floor, a dust-tight chute shall be constructed to transport the material to containers on the floor or the material may be containerized at elevated levels (e.g. on scaffolds) and carefully lowered to the ground by mechanical means. For materials between 15 and 50 feet above the ground they may be containerized at elevated levels or dropped onto inclined chutes or scaffolding for subsequent collection and containerization.

Bags shall be considered full when half their capacity have been filled. They should be securely sealed to prevent accidental opening and leakage by tying tops of bags in an overhand knot or by taping in gooseneck fashion. Do not seal bags with wire or cord.

Large components removed intact may be wrapped in two (2) layers of six (6) mil polyethylene sheeting secured with tape for transport to the approved disposal site.

Asbestos containing waste with sharp edged components (e.g., nails, screws, metal lath, tin sheeting) shall be placed into drums for disposal in lieu of polyethylene bags. Drums shall be marked to differentiate contents from those drums containing bagged material.

After completion of all stripping work, surfaces from which asbestos containing materials have been removed such as plaster base coat or metal deck, etc., the surfaces shall be wet brushed and sponged to remove all visible residue.

CEILING SYSTEM REMOVAL

Remove, clean and enclose in polyethylene the ceiling mounted objects such as lights and other items that may interfere with the abatement process and were not previously cleaned and sealed off. Utilize localized spraying of amended water, or HEPA vacuums, to reduce fiber dispersal during the removal of these fixtures.

Remove ceiling (tiles) (panels) within the regulated area carefully. If panels are to be reused, vacuum them with a HEPA filtered vacuum cleaner and carefully damp sponge and wrap cleaned (tiles) (panels) in four (4) mil polyethylene sheeting and seal with tape. Store as designated by Owners Project Representative (preferably outside of the regulated area). If (tiles) (panels) are to be discarded it is not necessary to clean them, but wrap in a similar fashion and stage for disposal in the waste container pass-out airlock.

Where suspended ceiling T-grid components must be removed to perform the abatement, HEPA vacuum and wet sponge each piece after removal from hangers. Wrap clean grid pieces in four (4) mil polyethylene sheeting and seal with tape. Store as designated by Owners Project Representative or in waste staging area if designated for disposal.

When removal of ceiling grid suspension system is not necessary for accessibility, to the asbestos containing materials leave the system in place and clean properly following completion of abatement, as specified in the Article of this section entitled: "Cleanup Procedure."

Remove plaster/drywall ceilings including lath, furring channel system, wire mesh, ties, clips, screws, nails and other accessory items as necessary and dispose of them as asbestos contaminated waste material.

As work progresses, spray ceiling materials and debris with amended water to keep wet until containerized for disposal.

PIPE TUNNEL OR CRAWL SPACE REMOVAL WORK

A decontamination enclosure shall be provided at the entrance to the pipe tunnel or crawl space. All requirements for regulated area entry and exit procedures and waste container pass-out procedures, as hereinbefore specified, shall apply to this work.

All openings within the pipe tunnel or crawl space shall be sealed with four (4) mil polyethylene and tape. The existing surfaces within the space will not be required to be covered with polyethylene sheeting.

A negative pressure system shall be required to maintain the security of the work space and the integrated decontamination enclosure.

All loose and fallen asbestos-containing material shall be very carefully cleaned up with an industrial vacuum equipped with HEPA filter.

After asbestos abatement work has been completed in the crawl space or pipe tunnel, all ceiling, wall and floor surfaces shall be cleaned with the HEPA equipped vacuum. All cleaned surfaces shall be sealed with an approved encapsulant.

FLOORING REMOVAL

Where flooring removal is specified with the use of solvents to remove flooring adhesive, the substrate shall have no adhesive residue or debris remaining. Contractor shall wash the substrate with soap and water to remove all solvent. Contractor shall be responsible for the cost of repair or replacement of any building components damaged by excessive use of solvents.

Where flooring removal is specified without the use of solvents to remove flooring adhesive, the contractor shall diligently remove adhesive by scraping process so that all trowel marks are removed and a uniform substrate, smooth to the touch, is attained. Contractor shall coordinate with the flooring installer to insure that the remaining substrate is suitable for replacement flooring installation.

SMALL SCALE - SHORT DURATION REMOVAL PROCEDURE

Glovebag Method:

All workers who are permitted to use the glovebag technique must be trained, experienced and skilled in this method.

All tools and materials that will be required during the removal procedure, shall be placed into the tool pouch.

Glovebag shall be installed so that it completely encompassed the surface where removal work will take place. The side seams of the glovebag shall be cut the appropriate length to accommodate a size that will fit over the removal area. The bag shall be placed in position, the edges of the bag shall be folded together and sealed with tape. All openings in the bag shall be sealed with duct tape (or equivalent material). The bottom seam of the bag must also be sealed with tape to prevent leakage.

Workers performing asbestos removal with glovebag shall wear (as a minimum) half mask dual--cartridge HEPA--equipped respirator, and full protective clothing to protect against the possibility of accidental leakage.

All material removed within the glovebag shall be thoroughly wetted with wetting agent, or removal encapsulant, applied with airless sprayer through the side port provided in the bag. After asbestos containing material has been removed, the exposed base surface must be thoroughly cleaned and wet wiped until all traces of asbestos-containing material is removed.

Create constant negative pressure by running a HEPA vacuum hose into bag.

Any exposed edges of asbestos-containing that will remain after bag is removed, shall be encapsulated with a bridging encapsulant to seal the material from releasing fibers to the atmosphere. Provide neatly beveled and coated terminations where insulation terminates suitable for a butt joint with new insulation.

In all glovebag removal settings, all doors, windows and other openings to the functional space must be sealed with a minimum of four (4) mil polyethylene sheeting. The HVAC system must be shut down. Once the area is completely sealed off, negative air pressure must be introduced to the entire functional space.

In glove bag settings which involve small scale short duration removal the immediate area shall be prepared using the following techniques; polyethylene drop cloths (minimum 6 mil) on floor and walls in a 12 foot perimeter of the removal area, negative air machine present and running in the immediate area. Glove bag must be placed under variable negative pressure during removal stages. A centralized five stage decontamination system must be established in the building for this method of glovebag removal.

Mini-Enclosure Method:

A mini-enclosure may be built around an area which is too large for glovebag method, but is of small-scale and short duration work and would not warrant large enclosure.

The mini-enclosure can be small enough to restrict the space to use by one worker. A small change room shall be contiguous to the mini-enclosure. The change room shall be a minimum of three (3) feet square.

The mini-enclosure shall be constructed by affixing plastic sheeting to existing walls and covering the floor with plastic sheeting which shall extend up walls at least 24 inches and sealed with tape. If existing walls are not available, a 2 x 4 wood frame shall be constructed and two (2) layers of six (6) mil polyethylene sheeting applied to the interior side of frame to allow clean "take-down," at completion. Sheeting shall be sealed with tape.

The change room shall be constructed of 2 x 4 wood framing to which shall be applied two (2) layers of six (6) mil polyethylene sheeting to interior side of frame and sealed with tape. The change room shall be provided with double six (6) mil polyethylene curtains at the exit and the entrance to the mini work enclosure. Both curtains in each opening shall be secured at the top and one side opposite from the other.

A hose from a HEPA vacuum shall be extended through the wall of the Mini-Enclosure and the opening around the hose shall be sealed with tape. The HEPA vacuum shall run continuously during the time asbestos abatement work is taking place.

All abatement work shall be conducted using the wet removal method and all debris from such work shall be bagged and disposed of as contaminated material. Upon completion, the interior surfaces of the regulated area shall be cleaned and sprayed with an encapsulant.

Worker using the mini-enclosure method shall wear two (2) Tyvek^{R} or equivalent disposable work suit and the appropriate HEPA filtered dual cartridge respiratory protection. Upon completion of the work and before leaving the change area, worker shall remove outer work suit and then proceed to a shower that is not contiguous with the work area.

The polyethylene enclosure, comprising the regulated area and the change room, shall be collapsed inwardly, bagged and disposed of as contaminated material.

ENCAPSULATION PROCEDURES

Clean and isolate the regulated area as specified in Article entitled: "Preparation of Regulated Area", hereinbefore.

Repair damaged and missing areas of existing materials with nonasbestos-containing substitutes. Material must adhere adequately to existing surfaces and provide an adequate base for application of encapsulating agents. Filler material shall be applied in accordance with manufacturer's recommended specifications.

Spray apply with airless equipment with low nozzle pressure to all surfaces where asbestos is removed or surfaces containing asbestos that are to remain in place. Spray must completely encapsulate any remaining asbestos, permanently locking it in place.

Apply a minimum of one (1) coat with coverage in strict accordance with manufacturer's recommendations. Surfaces must be dry and free of dirt, oil and dust.

ENCLOSURE PROCEDURE

Clean and isolate the regulated area as specified in Article entitled: "Preparation of Regulated Area" hereinbefore.

Spray areas that will be disturbed during the installation of hangers or other support/framing materials for the enclosure with water containing the specified surfactant. Keep these areas damp to reduce airborne fiber concentrations.

Remove loose or hanging asbestos containing materials.

After installation of hangers and other fixing devices and before installation of enclosure, repair damaged areas of fireproofing/thermal insulation materials as required using a nonasbestos-containing replacement material. Prepare surfaces and apply replacement material in accordance with manufacturer's recommendations.

AIR MONITORING

Daily Personal Air Monitoring (OSHA Compliance):

> Daily determination of employee exposure shall be made by collecting one or more breathing zone samples that are representative of the 8-hour TWA, full-shift exposure for each employee in each regulated area; and one or more breathing zone air samples that are representative of 30-minute exposures associated with operations that are most likely to produce exposures above the excursion limit for employees in each regulated area.
>
> OSHA P.E.L. As required by 29CFR 1926.1101(c). Within the breathing zone of each worker category (i.e., wetter, receiver, bagger) 25% of the crew or one per job category.

All samples collected shall be analyzed by a laboratory accredited by the American Industrial Hygiene Association.

The Owners Project Representative has the authority to stop the abatement work under the provisions of the General Conditions of this contract at anytime the Construction Representative determines either personally or through the services of an air sampling professional that conditions are not in compliance with the specifications and applicable regulations. The stoppage of work shall continue until conditions have been corrected and corrective steps have been taken to the satisfaction of the Construction Representative. Standby time required to resolve violations shall be at the Contractor's expense.

CLEANUP PROCEDURE

Remove and containerize all visible accumulations of asbestos containing material and asbestos contaminated debris utilizing rubber dust pans and rubber squeegees to move material around. Do <u>not</u> use metal shovels to pick up or move accumulated waste. Special care shall be taken to minimize damage to floor sheeting.

Wet clean all surfaces in the regulated area using rags, mops and sponges as appropriate. (Note: Some HEPA vacuums might not be wet-dry vacuums.)

Prior to removing the inner layer of plastic sheeting, the sheeting shall be sprayed with an encapsulant, so that any residue remaining will be adhered to the plastic sheeting.

Remove the cleaned inner layer of plastic sheeting from walls and floors. Windows, doors, HVAC system vents and all other openings shall remain sealed. The negative pressure ventilation units shall remain in continuous operation. Decontamination enclosure systems shall remain in place and be utilized.

Remove all containerized waste from the regulated area and waste container pass-out airlock.

The DFD's Project Representative, DNR Representative and the Contractor shall inspect the regulated area for visible residue. If any accumulation of residue is observed, it will be assumed to be asbestos and the cleaning cycle shall be repeated.

After cleaning the regulated area the Contractor may either spray the remaining barrier material with encapsulant or, wait at least 24 hours to allow fibers to settle and HEPA vacuum and wet clean all objects and surfaces in the regulated area again.

Decontaminate all tools and equipment and remove at the appropriate time in the cleaning sequence.

DISPOSAL PROCEDURES

As the work progresses to prevent exceeding available storage capacity onsite, sealed and labelled containers of asbestos-containing waste shall be removed and transported directly to the prearranged disposal location, which must be an authorized site in accordance with regulatory requirements of NESHAP and Wisconsin Administrative Rule NR 447.13 and NR 506.10. Use of intermediate storage locations is not accepted disposal procedure. Mark vehicles used to transport asbestos-containing waste in accordance with Nr 447.12(4)(a)1 to 3. Comply with US DOT Hazardous Material regulations, 49 CFR 171-180.

The Contractor shall provide documentation in the form of a transportation and disposal manifest that will provide a chain-of-custody record of all asbestos-containing waste from project site to the disposal site. All asbestos-containing waste generated must be accounted for by these records and copies of all such records shall be delivered to the Construction Representative.

Transportation to the Landfill:

Contractor shall provide an enclosed lockable waste container, consisting of a truck, trailer or dumpster, for storage and transportation of waste. The waste container shall be locked while unattended and during transportation of waste. Once bags have been removed from the regulated area, they shall be loaded directly into the waste container for transportation.

The waste container shall be free of debris and lined with six (6) mil polyethylene sheeting to prevent contamination from leaking or spilled containers. Floor sheeting shall be installed first and extend up the side walls. Wall sheeting shall be overlapped and taped into place.

Drums shall be placed on level surfaces in the waste container and packed tightly together to prevent shifting and tipping. Large components shall be secured to prevent shifting and bags placed on top. Do not throw containers into waste container.

Personnel loading asbestos containing waste shall be protected by disposable clothing including head, body and foot protection and at a minimum, half-face piece, air-purifying, dual cartridge respirators equipped with HEPA filters.

Any debris or residue observed on containers or surfaces outside of the regulated area resulting from cleanup or disposal activities shall be immediately cleaned up using HEPA filtered vacuum equipment and/or wet methods.

Disposal at the Landfill:

Upon reaching the landfill, trucks are to approach the dump location as closely as possible for unloading of the asbestos containing waste.

Bags, drums and components shall be inspected as they are off-loaded at the disposal site. Damaged containers shall be very carefully taped shut and repacked into drums or bags as applicable.

Waste containers shall be placed on the ground at the disposal site, not pushed or thrown out of trucks (weight of wet material could rupture bags).

Personnel off-loading containers at the disposal site shall wear protective equipment consisting of disposable head, body and foot protection and, at a minimum, half-face piece, air-purifying, dual cartridge respirators equipped with HEPA filters.

Following the removal of all containerized waste, the truck cargo area shall be decontaminated using HEPA vacuums and wet methods to meet the no visible residue criteria. Polyethylene sheeting shall be removed and discarded along with contaminated cleaning materials and protective clothing, in bags or drums at the disposal site.

REESTABLISHMENT OF REGULATED AREA

Reestablishment of the regulated area shall occur only after completion of cleanup procedures and documentation has been performed to the satisfaction of the Project Representative.

Resecure mounted objects removed from their former positions during area preparation activities.

Resecure and relocate objects that were removed to temporary locations back to their original positions.

Reestablish HVAC, mechanical and electrical systems in proper working order. Remove potentially contaminated HVAC system filters and dispose of as asbestos contaminated waste. Decontaminate filter assembly using HEPA vacuums and wet cleaning techniques.

END OF SECTION

State of Wisconsin
Department of Administration
DOA-4509 (R03/2003)
Chapters HSS 159 & 163

Division of Facilities Development
Mailing Address: **Post Office Box 7866, Madison, WI 53707-7866**
Street Addr: **101 E. Wilson Street, 7th Floor, Madison, WI 53702**
Phone: **608 / 266-2731**; *FAX*: **608 / 267-2710**
http://www.doa.state.wi.us/dfd

Asbestos/Lead Abatement Certification

The apparent low bidder on any project involving asbestos and/or lead abatement activity must provide the following statement notarized and signed by an officer of the firm, before the end of the seventh calendar day after the bid opening.

Note: For certified statements 1-3 below: If no exceptions exist, state "None"; otherwise include project(s), date(s), description and resolution for each (attach additional sheets if necessary).

This is to certify that _____
Firm Name

1) has not been issued any citations by federal, state or local regulatory agencies relating to asbestos or lead abatement activity, except as follows:

_____

2) has not had an asbestos or lead abatement contract terminated prior to completion, except as follows:

_____

3) has not been named in any asbestos or lead related legal proceedings/claims in which the firm (or employees scheduled to participate in this project) was involved as contractor or subcontractor, except as follows:

_____

4) has all employees or agents who may be exposed to airborne asbestos in excess of the OSHA PEL medically determined to be physically capable of working while wearing the respirator

5) will utilize only HEPA vacuums, negative pressure ventilation units and other local exhaust ventilation equipment conforming to ANSI Z9.2-79 and that water filtration unit(s) are used in conformance with manufacturer's specifications

6) has notified rental agencies that rental equipment will be used in abatement areas or to transport asbestos contaminated waste, if contractor intends to use rented equipment

7) will utilize only NIOSH approved respiratory protective devices and that respirator fit-testing for all contractor employees and agents, who must enter the regulated area, are performed in accordance with procedures as detailed in Title 29 CFR 1926.1101, Appendix C, Qualitative and Quantitative Fit Testing Procedures

8) maintains a written hazard communication program indicating how the contractor plans to meet the requirements of OSHA 29 CFR 1926.59 relative to labeling, handling of material safety data sheets and training of employees.

The undersigned states that all of the above information is true and correct to the best of his/her knowledge.

Dated _____ _____
Authorized Signature

_____
Printed Name

_____
Title

State of Wisconsin

County _____ _____
Firm Name

Signed or attested before me on _____ day _____ , _____

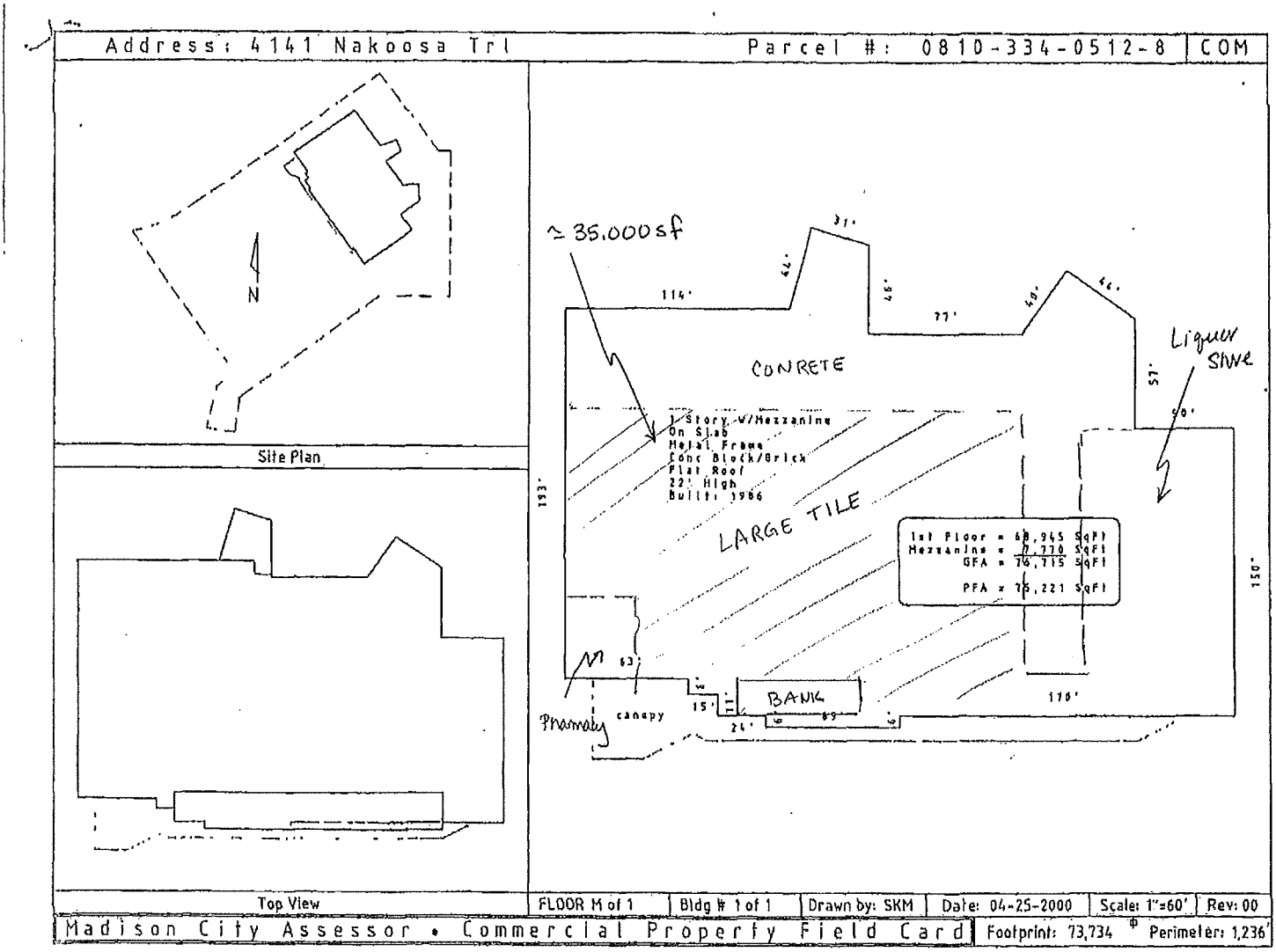
By:_____ _____County, WI

Notary Public

(STAMP OR SEAL)

My Commission Expires_____, 20 _____.

Facility Layout Sketch
Approximate Extent of Floor Coverings



A & A Environmental, Inc.

N4381 US Hwy 51, Poynette, WI 53955
Phone: (608) 240-1511, Mobile Phone: (608) 576-4960, Fax: (608) 635-9717

Inspection

December 23, 2015

Mr. James C. Whitney
City of Madison
215 Martin Luther King Jr. Blvd, Room 115
Madison, WI 53703
(608) 266-4563, Fax (608) 264-9275, Cell (608) 575-5269

RE: 4141 Nakoosa Trail, Madison, WI

On December 10, 2015 an asbestos inspection for conventional demolition and a visual inspection for mercury thermostats and florescent light bulbs that may contain mercury were completed on the grocery store located at 4141 Nakoosa Trail in Madison, WI. A&A Environmental, Inc. used sample results provided in the Phase II completed by TRC collected by James Gondek where possible to complete this asbestos inspection.

Asbestos Inspection

Bulk samples were collected and analyzed for asbestos content by polarized light microscopy (PLM). The following materials were reported > 1% asbestos or are assumed to contain friable asbestos (RACM) or asbestos that will become friable during conventional demolition. These materials must be properly removed prior to conventional demolition.

- None

The following building materials tested < 1% asbestos by PLM 400 point count or are assumed to contain asbestos in good condition that will not become friable during demolition. These items are to be disposed of as C/D waste at an engineered landfill. **These materials may not be recycled.**

10001 1. Black floor tile mastic on 12 x 12 floor tiles in the room south of the stairs near the west entry – 520 Sq Ft, Sample 22
10002 2. Black floor tile mastic on 12 x 12 floor tiles in liquor sales office – 5,850 Sq Ft, Samples 67, 69, and 72.
10003 3. Black floor coating and black floor tile mastic under 12 x 12 floor tile in the employee break room located north of the liquor sales area (may have been a different sales area). The black mastic is under yellow mastic – 2,002 Sq Ft, Samples 77 and 79
10004 4. Black floor tile mastic in second floor offices – 3,428 Sq Ft, Sample 97

The following building materials were bulk sampled and reported as **no asbestos detected**:

1. 2 x 4 ceiling tiles throughout
2. 2 x 2 ceiling tiles throughout
3. Yellow wall board glue in front of the store
4. Interior and exterior caulking
5. Ceramic floor tile grout and thin set throughout
6. Drywall throughout
7. Drywall joint compound throughout
8. Yellow carpet mastic throughout
9. 12 x 12 floor tile
10. Yellow floor tile mastic
11. Terrazzo flooring throughout
12. Precast caulking throughout
13. Base cove throughout
14. Base cove mastic throughout
15. Glue behind SST wall panels
16. 2 x 4 drywall ceiling tiles throughout
17. Ceramic wall tile grout throughout
18. Ceramic wall tile glue throughout
19. Interior wall caulking/glue drywall to cement block
20. Epoxy flooring in the kitchen
21. Red epoxy flooring in storage area
22. Fireboard under ceramic wall tile in delicatessen area
23. Black and brown stair treads and risers
24. Epoxy flooring in second floor restrooms
25. Gray ductwork on second floor
26. Caulking on chiller enclosures on roof
27. Backing on roof insulation
28. Wood fiberboard around roof drains
29. Exterior paint
30. Roofing – see samples provided in Phase II by TRC – R-1, 2, 3, R2-1,2,3, and R3-1,2,3

Please note: TRC showed a positive floor tile mastic sample in the pharmacy. A&A sampled the floor tile and mastic in their photos. A&A Environmental, Inc. samples 27, 28, 29, and 30. Only yellow mastic was only found under the 12 x 12 floor tiles. I believe they had the incorrect area. There was black asbestos floor tile mastic located in the room just south of the pharmacy, A&A Environmental, Inc. sample 22.

Lead-Based Paint Inspection on Recyclable Materials

- This building is post 1978 and therefore does not require sampling for lead base paint on recyclable concrete materials.

Other Potentially Hazardous Materials
2 Mercury thermostats
3,520 Fluorescent light bulbs
101 HID bulbs
2 CFL bulbs
16 Exit lights
2 Window air conditioners
3 Central air conditioning units
8 Roof top units
2 Large chiller units

Building Information:
83,048 Total Sq Ft
1 Building
0 Living Units
29 Years Old
2 Stories

A&A Environmental Inc.'s inspectors are only able to inspect open, safe, and accessible areas inside and outside of the building. Inaccessible suspect material may be hidden throughout this building. Any additional suspect materials discovered during the course of abatement/demolition/remodeling must be assumed to be ACM until sampled by and EPA/State of Wisconsin certified asbestos inspector and proven negative.

If you have any questions concerning this report or the sampling performed please feel free to contact me.

Sincerely,

Kim Sopha
President/Inspector #AII01851

Encl

KAS/bls

CEI LABS

December 11, 2015

A & A Environmental
N4381 US Highway 51
Poynette, WI 53955

CLIENT PROJECT: 4141 Nakoosa Trail; 4107
CEI LAB CODE: A15-8389

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on December 8, 2015. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP®
NVLAP Lab Code 101768-0

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

A & A Environmental

CLIENT PROJECT: 4141 Nakoosa Trail; 4107

CEI LAB CODE: A15-8389

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 12/11/15

TOTAL SAMPLES ANALYZED: 116

SAMPLES >1% ASBESTOS: 7

TOTAL LAYERS ANALYZED: 117

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: 4141 Nakoosa Trail; 4107

CEI LAB CODE: A15-8389

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
1		A2053911	Gray,Off-white	Ceiling Tile	None Detected
2		A2053912	Gray,Off-white	Ceiling Tile	None Detected
3		A2053913	Gray,Off-white	Ceiling Tile	None Detected
4		A2053914	Tan	Wallboard Glue	None Detected
5		A2053915	Tan	Wallboard Glue	None Detected
6		A2053916	Brown	Caulking	None Detected
7		A2053917	Brown	Caulking	None Detected
8		A2053918	Brown	Caulking	None Detected
9		A2053919	Gray	Grout	None Detected
10		A2053920	Gray	Thinset	None Detected
11		A2053921	Off-white,Tan	Drywall	None Detected
12		A2053922	Off-white,Tan	Joint Compound	None Detected
13		A2053923	Gray,Off-white	Ceiling Tile	None Detected
14		A2053924	Gray,Off-white	Ceiling Tile	None Detected
15		A2053925	Tan	Carpet Mastic	None Detected
16		A2053926	Off-white,Tan	Drywall	None Detected
17		A2053927	Off-white,Beige	Joint Compound	None Detected
18		A2053928	Off-white,Beige	Terazzo Flooring	None Detected
19		A2053929	Off-white,Beige	Terazzo Flooring	None Detected
20		A2053930	Off-white,Beige	Terazzo Flooring	None Detected
21		A2053931	Beige,Gray	Floor Tile	None Detected
22		A2053932	Black	Mastic	Chrysotile 8%
23		A2053933	Tan	Caulking	None Detected
24		A2053934	Gray,Off-white	Covebase	None Detected
25		A2053935	Tan	Mastic	None Detected
26		A2053936	Blue	Wall Glue	None Detected
27		A2053937	Blue	Floor Tile	None Detected
28		A2053938	Yellow,Clear	Mastic	None Detected
29		A2053939	Off-white	Floor Tile	None Detected
30		A2053940	Yellow,Clear	Mastic	None Detected
31		A2053941	Off-white,Tan	Drywall Ceiling Tile	None Detected

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: 4141 Nakoosa Trail; 4107

CEI LAB CODE: A15-8389

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
32		A2053942	Off-white,Tan	Drywall Ceiling Tile	None Detected
33		A2053943	White	Grout	None Detected
34		A2053944	Tan	Wall Tile Glue	None Detected
35		A2053945	Gray	Grout	None Detected
36		A2053946	Off-white,Black	Thinset	None Detected
37		A2053947	Tan	Lining	None Detected
38		A2053948	Gray,Off-white	Wallboard	None Detected
39		A2053949	Gray	Grout	None Detected
40		A2053950	Off-white,Gray	Thinset	None Detected
41		A2053951	Gray,Black	Floor Tile	None Detected
42		A2053952	Clear	Mastic	None Detected
43		A2053953	Tan	Carpet Mastic	None Detected
44		A2053954	Gray,Off-white	Ceiling Tile	None Detected
45		A2053955	Black	Covebase	None Detected
46		A2053956	Off-white	Mastic	None Detected
47		A2053957	Off-white,Tan	Drywall	None Detected
48		A2053958	Off-white,Tan	Joint Compound	None Detected
49		A2053959	Off-white,Blue	Caulking	None Detected
50		A2053960	Off-white	Caulking	None Detected
51		A2053961	Gray	Caulking	None Detected
52		A2053962	Black	Caulking	None Detected
53		A2053963	Yellow	Caulking	None Detected
54		A2053964	Tan	Wall Mastic	None Detected
55		A2053965	Off-white,Tan	Drywall Ceiling Tile	None Detected
56		A2053966	Gray	Caulking	None Detected
57		A2053967	Tan,Brown	Epoxy Flooring	None Detected
58		A2053968	Tan,Brown	Epoxy Flooring	None Detected
59		A2053969	Gray	Caulking	None Detected
60		A2053970	Gray	Caulking	None Detected
61		A2053971	Off-white,Tan	Drywall	None Detected
62		A2053972	Off-white	Joint Compound	None Detected

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: 4141 Nakoosa Trail; 4107 **CEI LAB CODE:** A15-8389

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
63		A2053973	Red,Gray	Epoxy Flooring	None Detected
64		A2053974	Red,Gray	Epoxy Flooring	None Detected
65		A2053975	Tan,Gray	Epoxy Flooring	None Detected
66		A2053976	Beige,Gray	Floor Tile	None Detected
67		A2053977	Black,Tan	Mastic	Chrysotile 5%
68		A2053978	Beige,Gray	Floor Tile	None Detected
69		A2053979	Black	Mastic	Chrysotile 8%
70		A2053980	Gray,Off-white	Ceiling Tile	None Detected
71		A2053981	Beige,Gray	Floor Tile	None Detected
72		A2053982	Black	Mastic	Chrysotile 8%
73		A2053983	Off-white,Tan	Drywall	None Detected
74		A2053984	Off-white,Tan	Joint Compound	None Detected
75		A2053985	Beige,Gray	Floor Tile	None Detected
76		A2053986	Yellow,Clear	Mastic	None Detected
77	Layer 1	A2053987	Gray	Leveling Compound	None Detected
	Layer 2	A2053987	Black	Mastic	Chrysotile 3%
78		A2053988	Beige,Gray	Floor Tile	None Detected
79		A2053989	Black	Mastic	Chrysotile 3%
80		A2053990	Tan	Window Glazing	None Detected
81		A2053991	Tan	Wall Mastic	None Detected
82		A2053992	Tan	Wall Mastic	None Detected
83		A2053993	White	Grout	None Detected
84		A2053994	Gray	Thinset	None Detected
85		A2053995	Tan	Wall Mastic	None Detected
86		A2053996	Gray,Tan	Drywall	None Detected
87		A2053997	Off-white,Tan	Drywall Ceiling Tile	None Detected
88		A2053998	Brown	Stair Tread	None Detected
89		A2053999	Tan	Mastic	None Detected
90		A2054000	Black	Stair Tread	None Detected
91		A2054001	Tan	Mastic	None Detected
92		A2054002	Beige,Gray	Floor Tile	None Detected

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: 4141 Nakoosa Trail; 4107

CEI LAB CODE: A15-8389

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
93		A2054003	Black	Mastic	None Detected
94		A2054004	Tan	Carpet Mastic	None Detected
95		A2054005	Tan	Carpet Mastic	None Detected
96		A2054006	Beige,Gray	Floor Tile	None Detected
97		A2054007	Black	Mastic	Chrysotile 8%
98		A2054008	Off-white,Tan	Drywall	None Detected
99		A2054009	Off-white	Joint Compound	None Detected
100		A2054010	Blue	Covebase	None Detected
101		A2054011	Off-white	Mastic	None Detected
102		A2054012	Tan,Gray	Epoxy Flooring	None Detected
103		A2054013	Gray	Duct Tape	None Detected
104		A2054014	Black	Gasket Material	None Detected
105		A2054015	Gray	Caulking	None Detected
106		A2054016	Yellow,Tan	Roof Backing	None Detected
107		A2054017	Yellow,Tan	Roof Backing	None Detected
108		A2054018	Brown	Fiberboard	None Detected
109		A2054019	Tan,Gray	Exterior Paint	None Detected
110		A2054020	Tan,Gray	Exterior Paint	None Detected
111		A2054021	Tan,Beige	Exterior Paint	None Detected
112		A2054022	Gray,Tan	Caulking	None Detected
113		A2054023	Tan	Caulking	None Detected
114		A2054024	Tan	Caulking	None Detected
115		A2054025	Tan	Caulking	None Detected
116		A2054026	Gray	Caulking	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: A & A Environmental
N4381 US Highway 51
Poynette, WI 53955

CEI Lab Code: A15-8389
Date Received: 12-08-15
Date Analyzed: 12-09-15
Date Reported: 12-11-15

Project: 4141 Nakoosa Trail; 4107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
1 A2053911	Ceiling Tile	Heterogeneous Gray,Off-white Fibrous Loosely Bound	35% 20%	Cellulose Fiberglass	15% 10% 20%	Binder Paint Perlite	**None Detected**
2 A2053912	Ceiling Tile	Heterogeneous Gray,Off-white Fibrous Loosely Bound	35% 20%	Cellulose Fiberglass	15% 10% 20%	Binder Paint Perlite	**None Detected**
3 A2053913	Ceiling Tile	Heterogeneous Gray,Off-white Fibrous Loosely Bound	35% 20%	Cellulose Fiberglass	15% 10% 20%	Binder Paint Perlite	**None Detected**
4 A2053914	Wallboard Glue	Heterogeneous Tan Fibrous Bound	5%	Cellulose	85% 10%	Mastic Binder	**None Detected**
5 A2053915	Wallboard Glue	Heterogeneous Tan Fibrous Bound	5%	Cellulose	85% 10%	Mastic Binder	**None Detected**
6 A2053916	Caulking	Heterogeneous Brown Non-fibrous Bound			90% 10%	Caulk Binder	**None Detected**
7 A2053917	Caulking	Heterogeneous Brown Non-fibrous Bound			90% 10%	Caulk Binder	**None Detected**

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: A & A Environmental
N4381 US Highway 51
Poynette, WI 53955

CEI Lab Code: A15-8389
Date Received: 12-08-15
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Date Reported: 12-11-15

Project: 4141 Nakoosa Trail; 4107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
8 A2053918	Caulking	Heterogeneous Brown Non-fibrous Bound			90% 10%	Caulk Binder	**None Detected**
9 A2053919	Grout	Heterogeneous Gray Non-fibrous Bound			65% 35%	Calc Carb Silicates	**None Detected**
10 A2053920	Thinset	Heterogeneous Gray Non-fibrous Bound			65% 35%	Calc Carb Silicates	**None Detected**
11 A2053921	Drywall	Heterogeneous Off-white,Tan Fibrous Bound	25% 5%	Cellulose Fiberglass	55% 15%	Gypsum Binder	**None Detected**
12 A2053922	Joint Compound	Heterogeneous Off-white,Tan Non-fibrous Loosely Bound			65% 15% 20%	Calc Carb Binder Paint	**None Detected**
13 A2053923	Ceiling Tile	Heterogeneous Gray,Off-white Fibrous Loosely Bound	35% 20%	Cellulose Fiberglass	15% 10% 20%	Binder Paint Perlite	**None Detected**
14 A2053924	Ceiling Tile	Heterogeneous Gray,Off-white Fibrous Loosely Bound	35% 20%	Cellulose Fiberglass	15% 10% 20%	Binder Paint Perlite	**None Detected**

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: A & A Environmental
N4381 US Highway 51
Poynette, WI 53955

CEI Lab Code: A15-8389
Date Received: 12-08-15
Date Analyzed: 12-09-15
Date Reported: 12-11-15

Project: 4141 Nakoosa Trail; 4107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
15 A2053925	Carpet Mastic	Heterogeneous Tan Fibrous Bound	5%	Cellulose	85% 10%	Mastic Binder	**None Detected**
16 A2053926	Drywall	Heterogeneous Off-white,Tan Fibrous Bound	25% 5%	Cellulose Fiberglass	55% 15%	Gypsum Binder	**None Detected**
17 A2053927	Joint Compound	Heterogeneous Off-white,Beige Non-fibrous Loosely Bound			65% 15% 20%	Calc Carb Binder Paint	**None Detected**
18 A2053928	Terazzo Flooring	Heterogeneous Off-white,Beige Non-fibrous Tightly Bound			80% 20%	Binder Silicates	**None Detected**
19 A2053929	Terazzo Flooring	Heterogeneous Off-white,Beige Non-fibrous Tightly Bound			80% 20%	Binder Silicates	**None Detected**
20 A2053930	Terazzo Flooring	Heterogeneous Off-white,Beige Non-fibrous Tightly Bound			80% 20%	Binder Silicates	**None Detected**
21 A2053931	Floor Tile	Heterogeneous Beige,Gray Fibrous Tightly Bound	8%	Cellulose	80% 12%	Vinyl Calc Carb	**None Detected**

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: A & A Environmental
N4381 US Highway 51
Poynette, WI 53955

CEI Lab Code: A15-8389
Date Received: 12-08-15
Date Analyzed: 12-09-15
Date Reported: 12-11-15

Project: 4141 Nakoosa Trail; 4107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
22 A2053932	Mastic	Heterogeneous Black Fibrous Bound	2%	Cellulose	90%	Mastic	**8% Chrysotile**
23 A2053933	Caulking	Heterogeneous Tan Fibrous Bound	2%	Cellulose	90% 8%	Caulk Binder	**None Detected**
24 A2053934	Covebase	Heterogeneous Gray,Off-white Non-fibrous Tightly Bound			80% 10% 10%	Vinyl Calc Carb Paint	**None Detected**
25 A2053935	Mastic	Heterogeneous Tan Fibrous Bound	2%	Talc	90% 8%	Mastic Binder	**None Detected**
26 A2053936	Wall Glue	Heterogeneous Blue Fibrous Bound	5%	Cellulose	95%	Mastic	**None Detected**
27 A2053937	Floor Tile	Heterogeneous Blue Non-fibrous Tightly Bound			90% 10%	Vinyl Calc Carb	**None Detected**
28 A2053938	Mastic	Heterogeneous Yellow,Clear Fibrous Bound	2%	Cellulose	98%	Mastic	**None Detected**

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: A & A Environmental
N4381 US Highway 51
Poynette, WI 53955

CEI Lab Code: A15-8389
Date Received: 12-08-15
Date Analyzed: 12-09-15
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Project: 4141 Nakoosa Trail; 4107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
29 A2053939	Floor Tile	Heterogeneous Off-white Non-fibrous Tightly Bound			90% 10%	Vinyl Calc Carb	**None Detected**
30 A2053940	Mastic	Heterogeneous Yellow,Clear Fibrous Bound	2%	Cellulose	98%	Mastic	**None Detected**
31 A2053941	Drywall Ceiling Tile	Heterogeneous Off-white,Tan Fibrous Bound	35% 3%	Cellulose Fiberglass	25% 35% 2%	Gypsum Vinyl Mica	**None Detected**
32 A2053942	Drywall Ceiling Tile	Heterogeneous Off-white,Tan Fibrous Bound	30% 5%	Cellulose Fiberglass	45% 15% 5%	Gypsum Binder Mica	**None Detected**
33 A2053943	Grout	Heterogeneous White Non-fibrous Bound			65% 35%	Calc Carb Binder	**None Detected**
34 A2053944	Wall Tile Glue	Heterogeneous Tan Fibrous Bound	8%	Cellulose	82% 10%	Mastic Binder	**None Detected**
35 A2053945	Grout	Heterogeneous Gray Non-fibrous Bound			65% 35%	Calc Carb Silicates	**None Detected**

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: A & A Environmental
N4381 US Highway 51
Poynette, WI 53955

CEI Lab Code: A15-8389
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Project: 4141 Nakoosa Trail; 4107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
36 A2053946	Thinset	Heterogeneous Off-white,Black Non-fibrous Tightly Bound			65% 35%	Binder Calc Carb	**None Detected**
37 A2053947	Lining	Heterogeneous Tan Fibrous Loosely Bound	65%	Cellulose	30% 5%	Binder Mastic	**None Detected**
38 A2053948	Wallboard	Heterogeneous Gray,Off-white Fibrous Bound	35% 5%	Cellulose Fiberglass	35% 10% 15%	Gypsum Binder Paint	**None Detected**
39 A2053949	Grout	Heterogeneous Gray Non-fibrous Bound			65% 35%	Calc Carb Silicates	**None Detected**
40 A2053950	Thinset	Heterogeneous Off-white,Gray Non-fibrous Tightly Bound			65% 35%	Binder Calc Carb	**None Detected**
41 A2053951	Floor Tile	Heterogeneous Gray,Black Non-fibrous Tightly Bound			90% 10%	Vinyl Calc Carb	**None Detected**
42 A2053952	Mastic	Heterogeneous Clear Fibrous Bound	2%	Cellulose	98%	Mastic	**None Detected**

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: A & A Environmental
N4381 US Highway 51
Poynette, WI 53955

CEI Lab Code: A15-8389
Date Received: 12-08-15
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Project: 4141 Nakoosa Trail; 4107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
43 A2053953	Carpet Mastic	Heterogeneous Tan Fibrous Bound	5%	Cellulose	85% 10%	Mastic Binder	**None Detected**
44 A2053954	Ceiling Tile	Heterogeneous Gray,Off-white Fibrous Loosely Bound	35% 20%	Cellulose Fiberglass	15% 10% 20%	Binder Paint Perlite	**None Detected**
45 A2053955	Covebase	Heterogeneous Black Non-fibrous Tightly Bound			90% 10%	Vinyl Calc Carb	**None Detected**
46 A2053956	Mastic	Heterogeneous Off-white Fibrous Bound	2%	Cellulose	98%	Mastic	**None Detected**
47 A2053957	Drywall	Heterogeneous Off-white,Tan Fibrous Bound	25% 5%	Cellulose Fiberglass	55% 15%	Gypsum Binder	**None Detected**
48 A2053958	Joint Compound	Heterogeneous Off-white,Tan Non-fibrous Loosely Bound			65% 15% 20%	Calc Carb Binder Paint	**None Detected**
49 A2053959	Caulking	Heterogeneous Off-white,Blue Non-fibrous Bound			75% 10% 15%	Caulk Binder Paint	**None Detected**

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: A & A Environmental
N4381 US Highway 51
Poynette, WI 53955

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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
50 A2053960	Caulking	Heterogeneous Off-white Non-fibrous Bound			75% 10% 15%	Caulk Binder Paint	**None Detected**
51 A2053961	Caulking	Heterogeneous Gray Non-fibrous Bound			80% 10% 10%	Caulk Binder Paint	**None Detected**
52 A2053962	Caulking	Heterogeneous Black Non-fibrous Bound			80% 10% 10%	Caulk Binder Paint	**None Detected**
53 A2053963	Caulking	Heterogeneous Yellow Non-fibrous Bound			90% 10%	Caulk Binder	**None Detected**
54 A2053964	Wall Mastic	Heterogeneous Tan Fibrous Bound	3%	Cellulose	97%	Mastic	**None Detected**
55 A2053965	Drywall Ceiling Tile	Heterogeneous Off-white,Tan Fibrous Bound	20% 5%	Cellulose Fiberglass	55% 15% 5%	Gypsum Binder Mica	**None Detected**
56 A2053966	Caulking	Heterogeneous Gray Non-fibrous Bound			90% 10%	Caulk Binder	**None Detected**

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: A & A Environmental
N4381 US Highway 51
Poynette, WI 53955

CEI Lab Code: A15-8389
Date Received: 12-08-15
Date Analyzed: 12-09-15
Date Reported: 12-11-15

Project: 4141 Nakoosa Trail; 4107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
57 A2053967	Epoxy Flooring	Heterogeneous Tan,Brown Non-fibrous Tightly Bound			30% 70%	Silicates Binder	**None Detected**
58 A2053968	Epoxy Flooring	Heterogeneous Tan,Brown Non-fibrous Tightly Bound			30% 70%	Silicates Binder	**None Detected**
59 A2053969	Caulking	Heterogeneous Gray Non-fibrous Bound			90% 10%	Caulk Binder	**None Detected**
60 A2053970	Caulking	Heterogeneous Gray Non-fibrous Bound			90% 10%	Caulk Binder	**None Detected**
61 A2053971	Drywall	Heterogeneous Off-white,Tan Fibrous Bound	25% 5%	Cellulose Fiberglass	55% 15%	Gypsum Binder	**None Detected**
62 A2053972	Joint Compound	Heterogeneous Off-white Non-fibrous Loosely Bound			75% 15% 10%	Calc Carb Binder Paint	**None Detected**
63 A2053973	Epoxy Flooring	Heterogeneous Red,Gray Non-fibrous Tightly Bound			30% 70%	Silicates Binder	**None Detected**

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: A & A Environmental
N4381 US Highway 51
Poynette, WI 53955

CEI Lab Code: A15-8389
Date Received: 12-08-15
Date Analyzed: 12-09-15
Date Reported: 12-11-15

Project: 4141 Nakoosa Trail; 4107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
64 A2053974	Epoxy Flooring	Heterogeneous Red,Gray Non-fibrous Tightly Bound			30% 70%	Silicates Binder	**None Detected**
65 A2053975	Epoxy Flooring	Heterogeneous Tan,Gray Non-fibrous Tightly Bound			30% 70%	Silicates Binder	**None Detected**
66 A2053976	Floor Tile	Heterogeneous Beige,Gray Non-fibrous Tightly Bound			90% 10%	Vinyl Calc Carb	**None Detected**
67 A2053977	Mastic	Heterogeneous Black,Tan Fibrous Bound	5%	Cellulose	90%	Mastic	**5% Chrysotile**
68 A2053978	Floor Tile	Heterogeneous Beige,Gray Fibrous Tightly Bound	8%	Cellulose	80% 12%	Vinyl Calc Carb	**None Detected**
69 A2053979	Mastic	Heterogeneous Black Fibrous Bound	2%	Cellulose	90%	Mastic	**8% Chrysotile**
70 A2053980	Ceiling Tile	Heterogeneous Gray,Off-white Fibrous Loosely Bound	35% 20%	Cellulose Fiberglass	15% 10% 20%	Binder Paint Perlite	**None Detected**

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: A & A Environmental
N4381 US Highway 51
Poynette, WI 53955

CEI Lab Code: A15-8389
Date Received: 12-08-15
Date Analyzed: 12-09-15
Date Reported: 12-11-15

Project: 4141 Nakoosa Trail; 4107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
71 A2053981	Floor Tile	Heterogeneous Beige,Gray Fibrous Tightly Bound	8%	Cellulose	80% 12%	Vinyl Calc Carb	**None Detected**
72 A2053982	Mastic	Heterogeneous Black Fibrous Bound	2%	Cellulose	90%	Mastic	**8% Chrysotile**
73 A2053983	Drywall	Heterogeneous Off-white,Tan Fibrous Bound	25%	Cellulose	60% 15%	Gypsum Binder	**None Detected**
74 A2053984	Joint Compound	Heterogeneous Off-white,Tan Non-fibrous Loosely Bound			65% 15% 20%	Calc Carb Binder Paint	**None Detected**
75 A2053985	Floor Tile	Heterogeneous Beige,Gray Fibrous Tightly Bound	2%	Cellulose	85% 13%	Vinyl Calc Carb	**None Detected**
76 A2053986	Mastic	Heterogeneous Yellow,Clear Fibrous Bound	3%	Cellulose	97%	Mastic	**None Detected**
77 Layer 1 A2053987	Leveling Compound	Heterogeneous Gray Non-fibrous Bound			80% 20%	Binder Silicates	**None Detected**

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: A & A Environmental
N4381 US Highway 51
Poynette, WI 53955

CEI Lab Code: A15-8389
Date Received: 12-08-15
Date Analyzed: 12-09-15
Date Reported: 12-11-15

Project: 4141 Nakoosa Trail; 4107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Layer 2 A2053987	Mastic	Heterogeneous Black Fibrous Bound	2%	Cellulose	95%	Mastic	3% Chrysotile
78 A2053988	Floor Tile	Heterogeneous Beige,Gray Fibrous Tightly Bound	8%	Cellulose	80% 12%	Vinyl Calc Carb	**None Detected**
79 A2053989	Mastic	Heterogeneous Black Fibrous Bound	2%	Cellulose	95%	Mastic	3% Chrysotile
80 A2053990	Window Glazing	Heterogeneous Tan Fibrous Bound	2%	Cellulose	90% 8%	Caulk Binder	**None Detected**
81 A2053991	Wall Mastic	Heterogeneous Tan Fibrous Bound	5%	Cellulose	85% 10%	Mastic Binder	**None Detected**
82 A2053992	Wall Mastic	Heterogeneous Tan Fibrous Bound	5%	Cellulose	85% 10%	Mastic Binder	**None Detected**
83 A2053993	Grout	Heterogeneous White Non-fibrous Bound			65% 35%	Calc Carb Binder	**None Detected**

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: A & A Environmental
N4381 US Highway 51
Poynette, WI 53955

CEI Lab Code: A15-8389
Date Received: 12-08-15
Date Analyzed: 12-09-15
Date Reported: 12-11-15

Project: 4141 Nakoosa Trail; 4107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
84 A2053994	Thinset	Heterogeneous Gray Non-fibrous Tightly Bound			65% 35%	Calc Carb Silicates	**None Detected**
85 A2053995	Wall Mastic	Heterogeneous Tan Fibrous Bound	5%	Cellulose	85% 10%	Mastic Binder	**None Detected**
86 A2053996	Drywall	Heterogeneous Gray,Tan Fibrous Bound	25% 5%	Cellulose Fiberglass	50% 10% 10%	Gypsum Binder Paint	**None Detected**
87 A2053997	Drywall Ceiling Tile	Heterogeneous Off-white,Tan Fibrous Bound	30% 3%	Cellulose Fiberglass	40% 25% 2%	Gypsum Vinyl Mica	**None Detected**
88 A2053998	Stair Tread	Heterogeneous Brown Non-fibrous Tightly Bound			85% 15%	Vinyl Calc Carb	**None Detected**
89 A2053999	Mastic	Heterogeneous Tan Fibrous Bound	3% 2%	Cellulose Talc	95%	Mastic	**None Detected**
90 A2054000	Stair Tread	Heterogeneous Black Non-fibrous Tightly Bound			85% 15%	Vinyl Calc Carb	**None Detected**

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: A & A Environmental
N4381 US Highway 51
Poynette, WI 53955

CEI Lab Code: A15-8389
Date Received: 12-08-15
Date Analyzed: 12-09-15
Date Reported: 12-11-15

Project: 4141 Nakoosa Trail; 4107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
91 A2054001	Mastic	Heterogeneous Tan Fibrous Bound	2% 3%	Cellulose Talc	95%	Mastic	**None Detected**
92 A2054002	Floor Tile	Heterogeneous Beige,Gray Fibrous Tightly Bound	8%	Cellulose	80% 12%	Vinyl Calc Carb	**None Detected**
93 A2054003	Mastic	Heterogeneous Black Fibrous Bound	2%	Cellulose	98%	Mastic	**None Detected**
94 A2054004	Carpet Mastic	Heterogeneous Tan Fibrous Bound	8%	Cellulose	92%	Mastic	**None Detected**
95 A2054005	Carpet Mastic	Heterogeneous Tan Fibrous Bound	8%	Cellulose	92%	Mastic	**None Detected**
96 A2054006	Floor Tile	Heterogeneous Beige,Gray Fibrous Tightly Bound	8%	Cellulose	80% 12%	Vinyl Calc Carb	**None Detected**
97 A2054007	Mastic	Heterogeneous Black Fibrous Bound	2%	Cellulose	90%	Mastic	**8% Chrysotile**

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: A & A Environmental
N4381 US Highway 51
Poynette, WI 53955

CEI Lab Code: A15-8389
Date Received: 12-08-15
Date Analyzed: 12-09-15
Date Reported: 12-11-15

Project: 4141 Nakoosa Trail; 4107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
98 A2054008	Drywall	Heterogeneous Off-white,Tan Fibrous Bound	25%	Cellulose	60% 15%	Gypsum Binder	**None Detected**
99 A2054009	Joint Compound	Heterogeneous Off-white Non-fibrous Loosely Bound			75% 15% 10%	Calc Carb Binder Paint	**None Detected**
100 A2054010	Covebase	Heterogeneous Blue Non-fibrous Tightly Bound			90% 10%	Vinyl Calc Carb	**None Detected**
101 A2054011	Mastic	Heterogeneous Off-white Fibrous Bound	2%	Cellulose	98%	Mastic	**None Detected**
102 A2054012	Epoxy Flooring	Heterogeneous Tan,Gray Non-fibrous Tightly Bound			30% 70%	Silicates Binder	**None Detected**
103 A2054013	Duct Tape	Heterogeneous Gray Fibrous Bound	30%	Fiberglass	70%	Binder	**None Detected**
104 A2054014	Gasket Material	Heterogeneous Black Fibrous Bound	5%	Fiberglass	85% 10%	Foam Binder	**None Detected**

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: A & A Environmental
N4381 US Highway 51
Poynette, WI 53955

CEI Lab Code: A15-8389
Date Received: 12-08-15
Date Analyzed: 12-09-15
Date Reported: 12-11-15

Project: 4141 Nakoosa Trail; 4107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
105 A2054015	Caulking	Heterogeneous Gray Non-fibrous Bound			90% 10%	Caulk Binder	**None Detected**
106 A2054016	Roof Backing	Heterogeneous Yellow,Tan Fibrous Bound	20%	Fiberglass	70% 10%	Foam Binder	**None Detected**
107 A2054017	Roof Backing	Heterogeneous Yellow,Tan Fibrous Bound	20%	Fiberglass	70% 10%	Foam Binder	**None Detected**
108 A2054018	Fiberboard	Heterogeneous Brown Fibrous Bound	70%	Cellulose	20% 10%	Binder Silicates	**None Detected**
109 A2054019	Exterior Paint	Heterogeneous Tan,Gray Non-fibrous Bound			60% 15% 25%	Paint Calc Carb Silicates	**None Detected**
110 A2054020	Exterior Paint	Heterogeneous Tan,Gray Non-fibrous Bound			60% 15% 25%	Paint Calc Carb Silicates	**None Detected**
111 A2054021	Exterior Paint	Heterogeneous Tan,Beige Non-fibrous Bound			85% 15%	Paint Calc Carb	**None Detected**

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: A & A Environmental
N4381 US Highway 51
Poynette, WI 53955

CEI Lab Code: A15-8389
Date Received: 12-08-15
Date Analyzed: 12-09-15
Date Reported: 12-11-15

Project: 4141 Nakoosa Trail; 4107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous	ASBESTOS %
112 A2054022	Caulking	Heterogeneous Gray,Tan Non-fibrous Bound	80% 10% 10%	Caulk Binder Paint	**None Detected**
113 A2054023	Caulking	Heterogeneous Tan Non-fibrous Bound	90% 10%	Caulk Binder	**None Detected**
114 A2054024	Caulking	Heterogeneous Tan Non-fibrous Bound	80% 10% 10%	Caulk Binder Paint	**None Detected**
115 A2054025	Caulking	Heterogeneous Tan Non-fibrous Bound	80% 10% 10%	Caulk Binder Paint	**None Detected**
116 A2054026	Caulking	Heterogeneous Gray Non-fibrous Bound	90% 10%	Caulk Binder	**None Detected**

CEI LABS

LEGEND:

Non-Anth	= Non-Asbestiform Anthophyllite
Non-Trem	= Non-Asbestiform Tremolite
Calc Carb	= Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

LIMIT OF DETECTION: <1% by visual estimation

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation.

ANALYST: Scott Minyard

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP®
NVLAP Lab Code 101768-0

Industrial Hygiene Laboratory
21 Griffin Road North
Windsor, CT 06095
(860) 298-6308

TRC
Results you can rely on

BULK ASBESTOS ANALYSIS REPORT

CLIENT: City of Madison

Lab Log #: 0042592
Project #: 204639.0000.0000
Date Received: 07/02/2013
Date Analyzed: 07/03/2013

Site: Nakoosa Trail, Madison, WI

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials		Asbestos %	Asbestos Type
R1-1	Grey	Yes	No	--	---		ND<1%	None
R1-2	Grey	Yes	No	--	---		ND<1%	None
R1-3	Grey	Yes	No	--	---		ND<1%	None
R2-1	Black	Yes	No	--	90%	synthetic fiber	ND<1%	None
R2-2	Black	Yes	No	--	90%	synthetic fiber	ND<1%	None
R2-3	Black	Yes	No	--	90%	synthetic fiber	ND<1%	None
R3-1	Black	Yes	No	--	---		ND<1%	None
R3-2	Black	Yes	No	--	---		ND<1%	None
R3-3	Black	Yes	No	--	---		ND<1%	None
FT1-1	Black (mastic)	No	Yes	1	---		10%	Chrysotile
FT1-1	White (tile)	No	Yes	2	---		10%	Chrysotile
FT1-2	--	--	--	--	--		NA/PS	--
FT1-2	--	--	--	--	--		NA/PS	--
FT1-3	--	--	--	--	--		NA/PS	--
FT1-3	--	--	--	--	--		NA/PS	--
CT1-1	White/Beige	Yes	No	--	60% 20%	cellulose mineral wool	ND<1%	None
CT1-2	White/Beige	Yes	No	--	60% 20%	cellulose mineral wool	ND<1%	None

Industrial Hygiene Laboratory
21 Griffin Road North
Windsor, CT 06095
(860) 298-6308

TRC
Results you can rely on

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
CT1-3	White/Beige	Yes	No	--	60% cellulose 20% mineral wool	ND<1%	None
CB1-1	Tan (glue)	No	Yes	1	---	ND<1%	None
CB1-1	Dark Brown (cove base)	No	Yes	2	---	ND<1%	None
CB1-2	Tan (glue)	No	Yes	1	---	ND<1%	None
CB1-2	Dark Brown (cove base)	No	Yes	2	---	ND<1%	None
CB1-3	Tan (glue)	No	Yes	1	---	ND<1%	None
CB1-3	Dark Brown (cove base)	No	Yes	2	---	ND<1%	None

Reporting limit- asbestos present at 1%
ND<1% - asbestos was not detected
Trace - asbestos was observed at level of less than 1%
NA/PS - Not Analyzed / Positive Stop

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, negative results must be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation (1982), and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116), July 1993, R.L. Perkins and B.W. Harvey which utilizes polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2014. TRC is an American Industrial Hygiene Association (AIHA) accredited lab for PLM effective through October 1, 2014. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and the QC data related to the samples is available upon written request from the client.

Analyzed by: K. Williamson — Kathleen Williamson, Laboratory Manager

Reviewed by: Amanda Parkins — Amanda Parkins, Approved Signatory

Date Issued 07/05/2013

TRC

Edition: October 2009
Supersede Previous Edition

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

City of Madison

LAB ID #. 42592

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
2041639.0000.0000	Nakoosa Trail ~~DOT Bridge Inspection~~		PLM: 8hr 24hr 48hr X 3day TEM: 24hr 48hr 3day 5day

SIGNATURE: James D Gudek

INSPECTOR: James Gudek

FIELD SAMPLE NUMBER	DATE	TIME	TYPE: COMP	TYPE: GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
R1-1	6/27/13	8:30		X	Roof	X					gray caulk
R1-2		8:32									
R1-3		8:33									
R2-1		8:35				X					black felt
R2-2		8:40									
R2-3		8:42									
R3-1		8:50				X					black caulk
R3-2		8:52									
R3-3		8:55									
FT1-1		9:15			Former pharmacy	X					12" white floor tile
FT1-2		9:17									

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
James D Gudek	6/29/13	7/2/13			
(Printed) James D Gudek	Time: 14:30	(Printed) 1000	(Printed)	Time:	(Printed)

Remarks:

Condition of Samples: OK
Acceptable: Yes ✓ No
Comments:

3/4

TRC

Edition: October 2009
Supersede Previous Edition

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 42592

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
204639.0000.0000	Nakoosa Trail ~~DOT Bridge Inspection~~		PLM: 8hr 24hr 48hr X 3day TEM: 24hr 48hr 3day 5day

SIGNATURE: James Gondek

INSPECTOR: James Gondek

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
FT1-3	6/27/13	9:20		X		X					12" White floor tile
CT1-1	"	"		"		X					ceiling tile
CT1-2	"	"		"		"					"
CT1-3	"	"		"		"					"
CB1-1	"	"		"		X					dark brown 4" Cove base
CB1-2	"	"		"		"					"
CB1-3	"	"		"		"					"

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
James Gondek	6/29/13	7/2/13			
(Printed) James Gondek	Time: 14:30	(Printed) 1000	(Printed)	Time:	(Printed)

Remarks:

Condition of Samples: OK
Acceptable: Yes ___ No ___
Comments:

Photographic Log

Client Name:	Site Location:	Project No.:
City of Madison Asbestos Photos	Former Cub Foods Nakoosa Trail, Madison, WI	204639.0000.0000

Photo No.	Date
3	6/27/13

Description
Black felt material located on the roof of the building, between aggregate and rubber membrane layers. No asbestos detected.

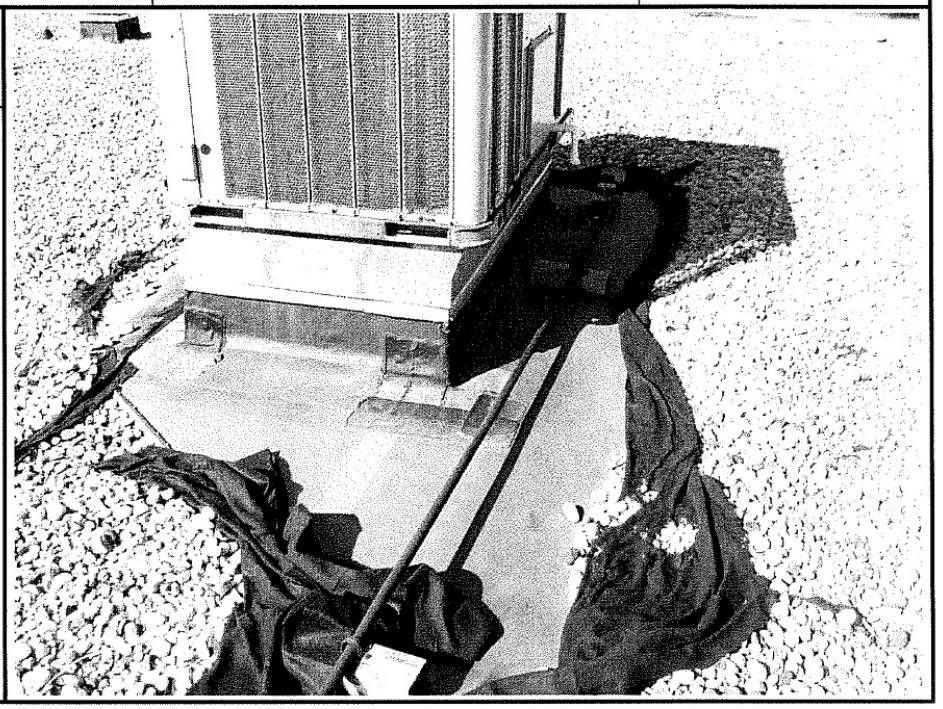


Photo No.	Date
4	6/27/13

Description
Gray caulk located on the roof of the building. No asbestos detected.

Photographic Log

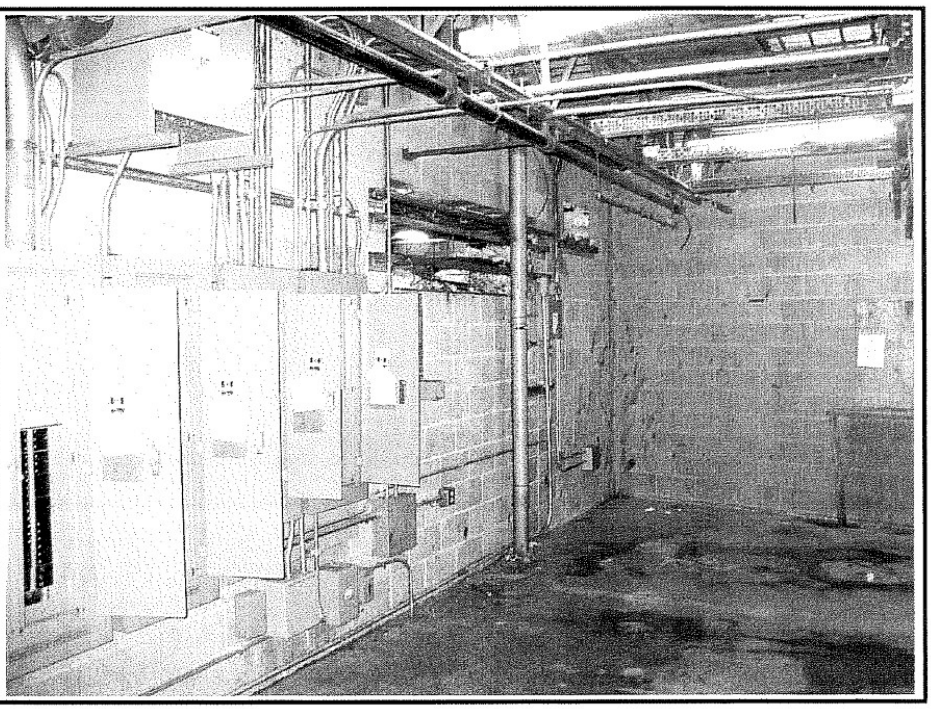
Client Name:	Site Location:	Project No.:
City of Madison Asbestos Photos	Former Cub Foods Nakoosa Trail, Madison, WI	204639.0000.0000

Photo No.	Date
5	6/27/13

Description
Black caulk located on the roof of the building. No asbestos detected.

Photo No.	Date
6	6/27/13

Description
Electrical room located in the rear of the building. No suspect ACM identified.



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708 Heartland Trail
Suite 3000
Madison, WI 53717

608.826.3600 PHONE
608.826.3941 FAX

www.TRCsolutions.com

July 23, 2013

Ms. Brynn Bemis
Hydrogeologist
City of Madison
Engineering Division
210 Martin Luther King Jr. Blvd., Room 115
Madison, WI 53703

Subject: Results for the Phase II Environmental Site Assessments (ESAs)
Five Adjacent Parcels – Nakoosa Trail and Commercial Avenue,
Madison, Wisconsin

Dear Ms. Bemis:

The City of Madison (City) is considering purchasing the five adjacent parcels (tax identification numbers 081033405194, 081033405201, 081033405011, 081033405128 and 081033405144) located at Nakoosa Trail and Commercial Avenue in Madison, Wisconsin ("sites"). The five parcels are associated with the former Cub Foods grocery store that operated on this property from 1987 through 2011. Four of the parcels are currently vacant and the fifth parcel contains the former grocery store building, which is approximately 76,000 square feet. This letter report summarizes the results of a Phase II ESA completed by TRC Environmental Corporation (TRC) on June 26 and 27, 2013.

Background

In May 2013, Midwest Environics completed a Phase I Environmental Site Assessment (ESA) of the five properties listed above. The Phase I ESA identified several recognized environmental conditions (RECs) which warranted further investigation. The RECs included the following:

- The northeast portion of the property for possible impacts to groundwater migrating from the Sycamore landfill.
- The southwest portion of the property for possible impacts to groundwater migrating from the former Lil Bear Gas Station. (Closed BRRTS #03-13-002785).

- The area surrounding the former commercial building at 4025 Commercial Avenue for possible impacts from the former operations, which included a former commercial building for a construction company, a hazardous waste transport facility, and other commercial uses.
- The west portion of the property for possible impacts to groundwater migrating from the existing Road Ranger gas station.
- Asbestos within the former grocery store building.
- Mold within the former grocery store building.

Purpose and Scope

TRC, on behalf of the City, completed a Phase II ESA to determine the nature of impacts associate with each RECs identified in the Phase I ESA. The Phase II ESA included an asbestos inspection and mold survey of the former Cub Foods facility, and a soil and groundwater investigation as summarized in Table 1 and Figure 1. A summary of the Phase II ESA investigation is included in the next section.

Investigation Methods

Asbestos Inspection

On June 27, 2013, TRC conducted an asbestos inspection of the former Cub Foods building in order to determine the extent of potential asbestos containing materials (ACMs) in the building. This was accomplished by identifying, sampling, characterizing, quantifying, and laboratory-analyzing potential ACM. At the request of the City, sampling was conducted from unobtrusive locations or repairs were made to any areas damaged during sampling if it was not possible to collect samples from unobtrusive locations.

Samples of suspect ACM were collected for laboratory analysis in accordance with the United States Environmental Protection Agency's (USEPA's) Asbestos Hazardous Emergency Response Act (AHERA) 40 CFR Part 763, Subpart E, as indicated in WDNR and Occupational Safety and Health Administration (OSHA) regulations. A minimum of three randomly distributed samples of each type of material identified as homogeneous (same type, color, and age of application) were collected by James Gondek, WDHFS Asbestos Inspector #AII-108099. If there was any reason to suspect that the materials might be different, those materials were sampled separately. Samples were collected by hand using hammers, chisels, and utility knives. Sufficient water was applied before and during sample collection to prevent the generation of airborne particulate as a result of

sampling activities. Samples collected were analyzed by TRC Solutions, Inc. in Windsor, Connecticut. Samples were analyzed using polarized light microscopy (PLM) with dispersion staining techniques. Once one sample of a homogeneous material tested positive for asbestos, the remaining samples of that material were not analyzed.

A total of 18 samples were collected during the June 27 sampling event and analyzed for the presence of ACM. Materials sampled included cove base and mastic, floor tile and mastic, roofing material, and ceiling tile.

Mold Survey

On June 27, 2013, Rapid Response Remediation of Middleton, Wisconsin, completed a mold survey within the interior of the facility. Rapid Response Remediation completed a visual inspection within the facility and collected ten laboratory samples from interior surfaces to identify and quantify mold. The approximate locations where samples were collected for mold analysis are shown on the facility drawing included in Attachment 2. The mold samples were sent to SanAir Technologies Laboratory, Inc., in Powhatan, Virginia for analysis.

Soil and Groundwater Investigation

On June 26, 2013, seven soil borings were installed by On-site Environmental Services of Sun Prairie, Wisconsin, under the supervision of TRC (Figure 1). Each boring was advanced to approximately 20 feet below ground surface (bgs); however, GP-4 and GP-5 were stopped at 15 and 19 feet bgs, respectively, due to refusal. The soil was logged and field-screened for visual and olfactory signs of contamination and for volatile organic compounds (VOCs) with a photoionization detector (PID). Because of high moisture conditions in the soil during the investigation, the PID did not produce reliable results; therefore, samples intervals were selected based on visual and/or olfactory screening. Soil boring logs are included in Attachment 1.

The sampling protocol and rationale for sampling at each location are summarized in Table 1. All samples collected from soil and groundwater were submitted to Pace Analytical Services (Pace) for laboratory analysis. A total of nine soil samples were collected from the seven borings for VOC analysis. Three samples were also analyzed for lead (GP-4, GP-6, and GP-7), and one sample (GP-4) was analyzed for polychlorinated biphenyls (PCBs), semivolatile organic compounds (SVOCs), and RCRA metals.

Upon completion of each soil boring, a temporary 1-inch monitoring well was installed and screened across the water table. Groundwater samples were collected from each

temporary well and analyzed for VOCs. In addition, groundwater samples from TW-6 and TW-7 were also analyzed for lead, and the sample from TW-4 was analyzed for RCRA metals.

Following groundwater sampling the temporary wells were abandoned in accordance with NR-141. The abandonment forms are included in Attachment 3. Soil cuttings are currently stored on site on the east side of the former Cub Foods building, and can be thin spread on site. Purge water from the temporary groundwater wells has been arranged for disposal with the Madison Metropolitan Sewage District.

Results

Asbestos Investigation

The results of the asbestos sampling are included in Attachment 2, and photographs are included in Attachment 5. Asbestos was identified in the black mastic sampled from beneath the 12-inch x 12-inch floor tile located under the former pharmacy and liquor store areas of the building. Similar floor tile was also observed in the front cart storage area and several upstairs offices. It is assumed that similar black mastic material is located beneath these additional tiled areas. Due to the City's request to limit damage to building materials during sampling, carpeted areas and large floor tiles located in the main grocery store area were not removed in order to check for the presence of floor tile and/or mastic beneath those materials. The potential exists for the mastic material to also be present beneath those areas.

The mastic is non-friable. Non-friable ACM is any material containing more than 1 percent asbestos that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. The EPA also defines two categories of non-friable ACM, Category I and Category II non-friable ACM as follows:

- Category I non-friable ACM is any asbestos-containing packing, gasket, resilient floor covering, mastic, or asphalt roofing product that contains more than 1 percent asbestos.
- Category II non-friable ACM is any material, excluding Category I non-friable ACM, containing more than 1 percent asbestos that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Regulated Asbestos-Containing Material (RACM) is (a) friable asbestos material; (b) Category I non-friable ACM that has become friable; (c) Category I non-friable ACM

that will be, or has been, subjected to sanding, grinding, cutting or abrading; or (d) Category II non-friable ACM that has a high probability of becoming, or has become, crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition operations.

The non-friable mastic could become friable due to potential abatement methods that could render the material friable (such as removal using hand scrapers), causing it to become RACM, which would need to be removed prior to building demolition.

Mold Investigation

The results from the mold survey are summarized in Attachment 3, and photographs are included in Attachment 5. Mold was found to be present on surfaces within the facility. The most heavily impacted area were associated with Test Sites 2, 4, and 8 as shown on the facility drawing in Attachment 3. The heavily impacted areas are located near the floor of the building, at locations with visible mold contamination, and are less than 5 square feet. Based on discussions with Rapid Response Remediation, with respect to safety for occupancy, their response was as follows:

> "though we are not physicians, we do know that these localized contaminations are less than five contiguous square feet and that people in normal good health will likely be unaffected. This is because the RH (relative humidity) and temp(erature) are optimum—not conducive to a mold bloom. This means that while bad spores are present, it would take high humidity or a water intrusion to allow the replication via spores to accelerate to a concerning level."

Soil and Groundwater Investigation

In general, soils observed at the site were silt and/or clay and underlain by sand and gravel. Groundwater was encountered in all borings at approximately 15 feet below ground surface.

The laboratory analytical results are included in Attachment 4. Soil analytical results are summarized in Table 2 and groundwater results are summarized in Table 3. In addition, the general results are summarized in Table 1 with respect to each boring.

In general significant concentrations of VOCs were not detected in the soil samples. Low level impacts were detected in GP-1, and GP-5, however these samples were collected near or below the water table and are likely indicative of groundwater impacts (discussed

further below) and not associated with a source within the soil. PCBs were not detected in soil collected from GP-4, and metal concentrations in that same sample were all below their respective residual contaminant levels (RCLs) and regional screening levels (RSLs).

Groundwater sampling results indicate there are no impacts to the shallow groundwater associated with the RECs throughout the northern section of the property; however, impacts to groundwater are present on the southwest section of the property based on the sample results from TW-1, TW-2, and TW-5. TW-1 and TW-5 were located near the former Li'l Bear Gas Station and concentrations of petroleum compounds in the groundwater at this location are above the NR 140 Enforcement Standard. The concentrations detected during the Phase II ESA are at similar levels to those found at the time the WDNR issued closure in July 2004, and are likely related to residual contamination to this closed site. Low levels of chlorinated VOCs; TCE (0.69 ug/L), cis-1,2 -DCE (2.2 ug/L), and trichlorofluoromethane (1.2 ug/L) were detected at TW-2. The source of these compounds is not clear, but the concentrations are similar to those detected in 1997 at the former Li'l Bear monitoring well PZ-1 which was located approximately 200 feet from the location of TW-2. The concentrations of chlorinated VOCs detected in TW-2 are below their respective NR 140 ESs.

Conclusions and Recommendations

The following conclusions are made based on the information summarized above:

- Asbestos is present in the black mastic material beneath the 12-inch x 12-inch floor tile in the former pharmacy and liquor store areas, as well as the former shopping cart storage area and several office areas. The floor tile covers an area of approximately 10,000 square feet. The potential exists for this material to also be present beneath areas covered by carpet or the large tile in the main area of the building. This material is not a risk to building usage but will have to be managed as ACM if the material is disturbed. The estimated cost to abate the 10,000 sf black mastic beneath the floor tile is approximately $30,000 or $3/sf.
- Mold is present at several locations within the building, the degree of contamination ranges from none to heavy within stained areas of the drywall. Based on our discussions with the subcontractor, the mold is currently not an issue for occupancy; however, the building could be sanitized to preclude the spreading or worsening of mold conditions. The estimated cost to sanitize the entire building is approximately $30,000; however, based on discussions with the City's sanitarian, the areas with current mold contamination could likely be spot cleaned for a lesser cost.

- Impacts to soil and groundwater are limited to the portion of the site which housed the former Lil Bear Gas Station, which is a closed site listed on the WDNR's registry for residual impacts. (Closed BRRTS #03-13-002785).
  - Low level detections of VOCs in soil were encountered in soil near the water table, but no RCLs were exceeded and a shallow impacts associated with a potential source were not observed.
  - Concentrations of VOCs in groundwater detected at TW-1 and TW-5 exceed the NR 140 ES for one or more petroleum compounds. Concentrations detected during sampling are similar to those detected at closure, and no further action would be required by the WDNR. However, if conditions change (e.g. the soil is excavated, or a building is placed above the impacted soil) additional investigation and or mitigation may be required.
  - Low levels of chlorinated VOCs were detected in TW-2. The concentrations did not exceed their respective NR 140 ESs, however the source of these low-level impacts is unknown.

Please contact Nate Keller at 608-826-3634 or Alyssa Sellwood at (608) 826-3658, if you have questions concerning this report.

Sincerely,

TRC Environmental Corporation

Nathaniel Keller, P.G.
Staff Hydrogeologist

Alyssa Sellwood, P.E.
Project Manager

Attachments: Table 1: Sampling Rationale and Summary of Results – Groundwater and Soil
Table 2: Summary of Soil Analytical Results
Table 3: Summary of Groundwater Analytical Results
Figure 1: Boring Location Figure
Attachment 1: Soil Boring Logs
Attachment 2: Asbestos Analytical Results
Attachment 3: Mold Analytical Results
Attachment 4: Soil and Groundwater Analytical Results
Attachment 5: Photographs

Table 1
Sampling Rationale and Summary of Results – Groundwater and Soil
Phase 2 ESA: Five Parcels – Former Cub Foods on Nakoosa Trail, Madison, Wisconsin
City of Madison

PROPOSED BORING ID	SOIL SAMPLE DEPTH (ft)	SOIL			GROUNDWATER			PURPOSE	RESULTS AND CONCLUSIONS
		VOCs	LEAD	PCBs, SVOCs, RCRA METALS	VOCs	LEAD	RCRA METALS		
GP-1/ TW-1	5-7 18-20	2	0	0	1	0	0	Determine if VOCs are migrating from the former Lil Bear Gas Station. (Closed BRRTS #03-13-002785).	Low level VOCs detected in groundwater and soil. Groundwater ES exceedences for 1,2,4- and 1,3,5-trimethylbenzene, and naphthalene. Similar to conditions at closure.
GP-2/ TW-2	8-10	1	0	0	1	0	0	Determine if there is migration of VOCs from the Road Ranger gas dispensing system.	Low level CVOCs detected in groundwater, concentrations are similar to those detected in former PZ-1. Source unknown.
GP-3/ TW-3	No Sample	0	0	0	1	0	0	Determine if CVOCs are migrating from the Sycamore Landfill in the water table aquifer.	No VOC detections.
GP-4/ TW-3	1.5-4	1	0	1	1	0	1	Determine if VOC impacts are present from former commercial building at 4025 Commercial Ave.	No VOC or PCB detections. Low level detection of metals all below standards.
GP-5/ TW-5	3.5-5 17-19	2	0	0	1	0	0	Determine if VOCs are migrating from the Road Ranger USTs, and what concentrations are present from former Lil Bear Gas Station. (Closed BRRTS #03-13-002785).	Low level VOCs detected in soil and groundwater. No soil exceedences. Groundwater ES exceedences for benzene. Similar to conditions at closure.
GP-6/ TW-6	7.5-10	1	1	0	1	1	0	Determine if VOC impacts are present from former commercial building at 4025 Commercial Ave.	No VOC detections. Low level lead detected, but concentration was significantly below standards.
GP-7/ TW-7	0.5-3 12.5-15	2	2	0	1	1	0	Determine if VOC impacts are present from former commercial building at 4025 Commercial Ave.	No VOC detections. Low level lead detected, but concentration was significantly below standards.

Note:
Total depth of each boring was approximately 20 feet.

Table 2
Summary of Soil Analytical Results
Phase 2 ESA: Five Parcels – Former Cub Foods on Nakoosa Trail, Madison, Wisconsin
City of Madison
July 2013

SAMPLE ID	SAMPLE DEPTH (FT BGS)	PID[1] (ppm)	PETROLEUM ODOR PRESENT	VOCs						
				1,2,4-TMB (µg/kg)	1,3,5-TMB (µg/kg)	ETHYL-BENZENE (µg/kg)	NAPHTHALENE (µg/kg)	n-PROPYL BENZENE (µg/kg)	m&p-XYLENE (µg/kg)	o-XYLENE (µg/kg)
GP-1	5-7'	<10	NO	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.0
	18-20'	<10	YES	39.2	<12.4	18.1 J	<12.4	<12.4	<24.8	<12.4
GP-2	8-10'	<10	YES	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.0
GP-4	1.5-5'	<10	NO	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.0
GP-5	3.5-5'	<10	NO	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.0
	17-19'	46.3	YES	334	86.4	150	123	31.6 J	511	85.6
GP-6	7.5-10'	23.6	NO	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.0
GP-7	0.5-3'	<10	YES	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.0
	12.5-15'	<10	NO	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.0
NR 720 GENERIC RCLs[2]				--	--	2,900	400[5]	--	4,100[7]	4,100[7]
EPA RSLs FOR SOIL[4]										
DIRECT CONTACT NON-INDUST				89,800	182,000	7,470	5,150	264,000	258,000[7]	258,000[7]
DIRECT CONTACT INDUST				219,000	182,000	37,000	26,000	264,000	258,000[7]	258,000[7]
GW PATH				1,378[6]	1,378[6]	1,570	659	--	3,940[7]	3,940[7]

SAMPLE ID	SAMPLE DEPTH (FT BGS)	PID[1] (ppm)	PETROLEUM ODOR PRESENT	METALS						
				ARSENIC (mg/kg)	BARIUM (mg/kg)	CADMIUM (mg/kg)	CHROMIUM (mg/kg)	LEAD (mg/kg)	SELENIUM (mg/kg)	SILVER (mg/kg)
GP-1	5-7'	<10	NO	--	--	--	--	--	--	--
	18-20'	<10	YES	--	--	--	--	--	--	--
GP-2	8-10'	<10	YES	--	--	--	--	--	--	--
GP-4	1.5-5'	<10	NO	1.4 J	28.2	0.17 J	4.4	1.8	<0.53	<0.19
GP-5	3.5-5'	<10	NO	--	--	--	--	--	--	--
	17-19'	46.3	YES	--	--	--	--	--	--	--
GP-6	7.5-10'	23.6	NO	--	--	--	--	1.5	--	--
GP-7	0.5-3'	<10	YES	--	--	--	--	17.5	--	--
	12.5-15'	<10	NO	--	--	--	--	1.9	--	--
NR 720 GENERIC RCLs[2]				0.039/1.6[3]	--	--	8/510[3]	50/500[3]	--	--
EPA RSLs FOR SOIL[4]										
DIRECT CONTACT NON-INDUST				0.39	15,300	70.2	0.293	400	391	391
DIRECT CONTACT INDUST				1.59	100,000	803	5.57	800	5,110	5,110
GW PATH				0.58	164.8	0.752	--	27	0.52	0.85

Table 2 (continued)
Summary of Soil Analytical Results
Phase 2 ESA: Five Parcels – Former Cub Foods on Nakoosa Trail, Madison, Wisconsin
City of Madison
July 2013

SAMPLE ID	SAMPLE DEPTH (FT BGS)	PID[1] (ppm)	PETROLEUM ODOR PRESENT	PCBs							
				TOTAL PCBs (µg/kg)	AROCLOR 1016 (µg/kg)	AROCLOR 1221 (µg/kg)	AROCLOR 1232 (µg/kg)	AROCLOR 1242 (µg/kg)	AROCLOR 1248 (µg/kg)	AROCLOR 1254 (µg/kg)	AROCLOR 1260 (µg/kg)
GP-1	5-7'	<10	NO	--	--	--	--	--	--	--	--
	18-20'	<10	YES	--	--	--	--	--	--	--	--
GP-2	8-10'	<10	YES	--	--	--	--	--	--	--	--
GP-4	1.5-5'	<10	NO	<26.3	<26.3	<26.3	<26.3	<26.3	<26.3	<26.3	<26.3
GP-5	3.5-5'	<10	NO	--	--	--	--	--	--	--	--
	17-19'	46.3	YES	--	--	--	--	--	--	--	--
GP-6	7.5-10'	23.6	NO	--	--	--	--	--	--	--	--
GP-7	0.5-3'	<10	YES	--	--	--	--	--	--	--	--
	12.5-15'	<10	NO	--	--	--	--	--	--	--	--
NR 720 GENERIC RCLs[2]				--	--	--	--	--	--	--	--
EPA RSLs FOR SOIL[4]											
DIRECT CONTACT NON-INDUST				--	3,930	159	159	222	222	222	222
DIRECT CONTACT INDUST				--	21,200	589	589	744	744	744	744
GW PATH				9.38[8]	--	--	--	--	--	--	--

Notes:

Created By: WJB

Checked By: NRK

J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the detection limit.

RCLs = Residual Contaminant Levels.

RSLs = Regional Screening Levels

TMB=Trimethylbenzene

PCB =Polychlorinated biphenyl

-- = Parameter wasn't analyzed/Suggested RCL has not been established for this analyte.

Bold = indicates that the sample exceeds the NR 720 RCL groundwater pathway or non-industrial direct contact pathway

Bold = indicates that the sample exceeds the EPA RSL for GW Pathway

Footnotes:

(1) PID measurements are skewed high due to moisture in the air affecting the instrument performance. Sample depths were chosen based on the presence of petroleum odor.

(2) Generic RCL defined by Wisconsin Administrative Code NR 720. Values are the generic RCLs for the groundwater pathway, except where noted.

(3) Values are the generic RCL for exposure by direct contact for non-industrial and industrial, respectively.

(4) Calculated from http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search using the default assumption listed in Draft Publication WDNR RR-890 (Dec. 2011).

(5) PAH RCL is used in the absence of an established NR 720 RCL.

(6) RSL GW Path is for combined 1,2,4- and 1,3,5-Trimethylbenzenes.

(7) RCL and RSL is for total Xylenes.

(8) RSL GW Path was only available in total PCB's.

Table 3
Summary of Groundwater Analytical Results
Phase 2 ESA: Five Parcels – Former Cub Foods on Nakoosa Trail, Madison, Wisconsin
City of Madison
July 2013

SAMPLE ID	DTB (FT BGS)	DTW (FT BGS)	VOC's																
			BENZENE (µg/L)	ETHYL-BENZENE (µg/L)	TOLUENE (µg/L)	m&p-XYLENE (µg/L)	o-XYLENE (µg/L)	1,2,4-TMB (µg/L)	1,3,5-TMB (µg/L)	NAPHTH-ALENE (µg/L)	n-BUTYL BENZENE (µg/L)	sec-BUTYL BENZENE (µg/L)	ISOPROPYL-BENZENE (µg/L)	p-ISOPROPYL-BENZENE (µg/L)	n-PROPYL-BENZENE (µg/L)	CHLORO-METHANE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	TRICHLORO-FLOURO-METHANE (µg/L)
TW-1	18.5	11.6	<2.5	**499**	15.7	**632**	81.9	**924**	**33.0**	**108**	22.1	7.2 J	36.6	5.0 J	129	<1.9	<2.1	<2.1	<2.4
TW-2	18.7	7.6	<0.50	<0.50	<0.44	<0.82	<0.50	<0.57	<2.5	<2.5	<0.40	<0.60	<0.34	<0.40	<0.50	<0.39	**0.62 J**	2.2	1.2
TW-3	17.8	7.0	<0.50	<0.50	<0.44	<0.82	<0.50	<0.57	<2.5	<2.5	<0.40	<0.60	<0.34	<0.40	<0.50	<0.39	<0.43	<0.42	<0.48
TW-4	14.0	11.5	<0.50	<0.50	<0.44	<0.82	<0.50	<0.57	<2.5	<2.5	<0.40	<0.60	<0.34	<0.40	<0.50	<0.39	<0.43	<0.42	<0.48
TW-5	17.4	12.3	**12.9**	29.7	2.6	167	58.8	**179**	**51.5**	**60.0**	<0.40	1.9 J	4.0	1.1	14.9	0.44 J	<0.43	<0.42	<0.48
TW-6	18.2	13.1	<0.50	<0.50	<0.44	<0.82	<0.50	<0.57	<2.5	<2.5	<0.40	<0.60	<0.34	<0.40	<0.50	<0.39	<0.43	<0.42	<0.48
TW-7	17.9	14.3	<0.50	<0.50	<0.44	<0.82	<0.50	<0.57	<2.5	<2.5	<0.40	<0.60	<0.34	<0.40	<0.50	<0.39	<0.43	<0.42	<0.48
NR 140 STANDARD[1]		**PAL**	0.5	140	160	400	400	96	96	10	--	--	--	--	--	3	0.5	7	--
		ES	**5**	**700**	**800**	**2,000**	**2,000**	**480**	**480**	**100**	**--**	**--**	**--**	**--**	**--**	**30**	**5**	**70**	**--**

SAMPLE ID	DTB (FT BGS)	DTW (FT BGS)	METALS							
			ARSENIC (µg/L)	BARIUM (µg/L)	CADMIUM (µg/L)	CHROMIUM (µg/L)	LEAD (µg/L)	MERCURY (µg/L)	SELENIUM (µg/L)	SILVER (µg/L)
TW-1	18.5	11.6	--	--	--	--	--	--	--	--
TW-2	18.7	7.6	--	--	--	--	--	--	--	--
TW-3	17.8	7.0	--	--	--	--	--	--	--	--
TW-4[4]	14.0	11.5	**9.3[5] J**	210	<0.38	**3.0 J**	**3.2 J**	**1.8[5]**	<6.6	2.2 J
TW-5	17.4	12.3	--	--	--	--	--	--	--	--
TW-6	18.2	13.1	--	--	--	--	<1.2	--	--	--
TW-7	17.9	14.3	--	--	--	--	**1.5 J**	--	--	--
NR 140 STANDARD[1]		**PAL**	1	400	0.5	10	1.5	0.2	10	10
		ES	**10**	**2,000**	**5**	**100**	**15**	**2**	**50**	**50**

Notes:

J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the detection limit.

ES = Enforcement Standard.

PAL = Preventive Action Limit.

TCE= Trichloroethene

DCE= Dichloroethene

TMB=Trimethylbenzene

PCB =Polychlorinated biphenyl

-- = Parameter wasn't analyzed/Suggested RCL has not been established for this analyte.

Bold = indicates that the sample exceeds the NR 140 PAL

Bold = indicates that the sample exceeds the NR 140 ES

Footnotes:

[1] NR 140 STANDARD = Public Health Groundwater Quality Standards as defined by Wisconsin Administrative Code NR 140.

[2] ES and PAL is for combined 1,2,4- and 1,3,5-Trimethylbenzenes.

[3] ES and PAL is for total Xylenes.

[4] RCRA metals groundwater sample was sent to the lab unfiltered and unpreserved due to slow well recovery after purging.

[5] Sample preservation did not meet EPA or method recommendations.

Created By: WJB
Checked By: NRK

LEGEND

- SOIL BORING/TEMPORARY WELL
- PROPERTY BOUNDARY

NOTES

1. BASE MAP IMAGERY FROM WISCONSIN REGIONAL ORTHOPHOTOGRAPHY CONSORTIUM, SPRING 2010.
2. PROPERTY BOUNDARIES SUPPLIED BY DANE COUNTY.

0 100 200 FEET

1 INCH = 200 FEET

1:2,400

TRC - GIS

TRC

708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

CITY OF MADISON, WISCONSIN
NAKOOSA TRAIL PHASE II ESA

SOIL BORING / TEMPORARY WELL LOCATIONS

DRAWN BY:	PAPEZ J
APPROVED BY:	SELLWOOD A
PROJ. NO.:	204639
FILE NO.:	204639-001.mxd
DATE:	JULY 2013

E:\CityOfMadison\NakoosaPh2\2013_204639\204639-001.mxd
Saved By: JPAPEZ on 7/23/2013, 13:15:20 PM

FIGURE 1

Attachment 1

Soil Boring Logs

TRC Field Soil Boring Log Information

TRC Project No: 204639 Page 1 of 7

Project Name	Start Date	End Date	Boring Number
City of Madison - Cub Foods	6/26/13	6/26/13	GP/TW-1

Boring Drilled By	Drilling Method
Dusty - On-site Env.	Direct Push

Drill Rig	Common Well Name	Initial Water Level	Surface Elevation	Borehole Diameter
Geoprobe-truck Rig	—	—	—	2 Inches

Boring Location: State Plane Easting 2151744 Northing 404491
SW 1/4 of SE 1/4 of Section 33 T 8 N,R 10E
Local Grid Location (If applicable): ☐ N ☐ E Feet ☐ S Feet ☐ W

County	State	DNR County Code	Civil Town/City/ or Village
DANE	WI	13	Madison

Number	Length (In) Recovered	Blow Counts	Depth In Feet	Group Name, Percent & Range of Particle Sizes, Plasticity, Color, Odor, Moisture, Density/Consistency, Additional Comments, Geologic Origin (Stratigraphic Unit)	Sample Type	PID/FID	Standard Penetration	Well Diagram	RQD/ Comments
1	5/5		0-5	Soil, slightly plastic, brown, no odor		>10			0-1
				1' — (CL) Clay, 5-10% gravel (Fn-C), slightly plastic, light-dark brown, no odor, moist, med dense, stiff.		>10			1-5
2	4/5		5-10	5' — same as above to 7', no odor, moist		>10			5-7
				7' — (SW) Sand, VFn-C grained, 5-10% gravel (Fn-C), 20-25% fines, light brown, moist, no odor, loose.		>10			7-10
3	2/5		10-15	10' — same as above, wet @ 12.5', no odor. * took sample from 10-15 due to large amount of gravel and limited recovery.		>10			10-15
4	3/5		15-20	15' — same as above, no odor, wet		>10			15-18
				18' — (SP) Sand, VFn-Med grained, 75% gravel (Fn), 25%-30% Fines, slightly plastic, light brown, Slight Petro odor, wet, med dense. EOB @ 20' BGS 6/26/13		>10			18-20

Logged By: Wesley J Bragg Checked By:

F-204A (R 12-94)

Note: (See GP/TW-6 Log) Sampled: 5-7 @ 1435, 18-20 @ 1445 Well: DTB = 18.45. DTW = 11.59 Sampled @ 1520

TRC Field Soil Boring Log Information

TRC Project No: 204639 Page 2 of 7

Project Name	Start Date	End Date	Boring Number
City of Madison-Cub Foods	6/26/13	6/26/13	GP/TW-2

Boring Drilled By	Drilling Method
Dusty - On-site Env.	Direct Push

Drill Rig	Common Well Name	Initial Water Level	Surface Elevation	Borehole Diameter
Geoprobe-truck Rig	—	—	—	2 Inches

Boring Location: State Plane — Easting 215753 Northing 404655
SW 1/4 of SE 1/4 of Section 33 T 8 N,R 10E
Local Grid Location (If applicable): ☐ N Feet ☐ S ☐ E Feet ☐ W

County	State	DNR County Code	Civil Town/City/ or Village
DANE	WI	13	MADISON

Number	Length (In) Recovered	Blow Counts	Depth In Feet	Group Name, Percent & Range of Particle Sizes, Plasticity, Color, Odor, Moisture, Density/Consistency, Additional Comments, Geologic Origin (Stratigraphic Unit)	Sample Type	PID/FID	Standard Penetration	Well Diagram	RQD/ Comments
1	4/5		0-5	Top soil, 5% gravel (Fn-C), non-plastic, brown, dry, no odor, loose.		>10			0-1.5'
			1.5	Clay (CL), 5-10% gravel (Fn-C), slightly plastic, reddish brown→brown, no odor, dry, stiff.		>10			1.5-5'
			5'						
2	4.5/5		5-10	Same as above, slightly plastic, brown-dark brown, slight petro odor @ 8-10' bgs, moist, med dense.		>10			5-8'
						>10			8-10'
			10'						
3	4/5		10-15	Same as above, no odor, wet.		>10			10-13'
						>10			13-15'
			13'	Sand and gravel, 10-15% fines, light brown, no odor, wet, loose.					
			15'						
4	3/5		15-20	Same as above, no odor, wet		>10			15-17.5'
			20'	EOB @ 20' sampled 8-10 @ 14:25 6/26/13		>10			17.5-20'
				Well: DTB: 18.7 DTW: 7.6 Sampled @ 1900					

Logged By: Wesley J Burger Checked By: TO'Connell

F-204A (R 12-94)

Note: (See GP/TW-6 Log)

TRC Field Soil Boring Log Information

TRC Project No: 204639

Project Name	Start Date	End Date	Boring Number
City of Madison-Cub Foods	6/26/13	6/26/13	GP/TW-3

Boring Drilled By	Drilling Method
Dusty - On-Site Env.	Direct Push

Drill Rig	Common Well Name	Initial Water Level	Surface Elevation	Borehole Diameter
Geoprobe-Truck Rig	—	—	—	2 Inches

Boring Location
State Plane Easting 2152266 Northing 405085
SW 1/4 of SE 1/4 of Section 33 T 0 N,R 10E

Local Grid Location (If applicable) ☐ N ☐ E Feet ☐ S Feet ☐ W

County	State	DNR County Code	Civil Town/City/ or Village
DANE	WI	13	MADISON

Number	Length (In) Recovered	Blow Counts	Depth In Feet	Group Name, Percent & Range of Particle Sizes, Plasticity, Color, Odor, Moisture, Density/Consistency, Additional Comments, Geologic Origin (Stratigraphic Unit)	Sample Type	PID/FID	Standard Penetration	Well Diagram	RQD/ Comments
1	3/5		0-5	Soil, 35-40% fines, plastic, brown, no odor, wet, med dense, some sand (Fn-Med), organic material throughout sample		>10			0-3
				3' — Sandy silty Clay (CL-ML), med-C sand, plastic, light Brown → Brown, earthy odor, moist, med dense.		>10			3-5
2	3/5		5-10	5' — Same as above, no odor, moist		11.7			5-6
				6' — Sand with gravel (SP), 15-20% gravel (Fn-C), 10% Fines, non-plastic, light reddish brown, wet, loose.		>10			6-10
3	2.5/5		10-15	10' — Same as above, no odor, wet, loose * took one representative sample of 5' interval due to recovery length and amount of gravel.					
				15' — Same as above, no odor, wet		>10			15-18.5
4	4/5		15-20	18.5' — Silt (ML), 30% sand (~~Fn-Med~~), non-slightly plastic, light reddish brown, no odor, wet, loose.		>10			18.5-20

EOB @ 20' Bgs @ 6/26/13

Logged By: Wesley J Burge

Checked By: [signature]

F-204A (R 12-94)

Sampled: none

Well: DTB: 17.8
DTW: 7.0
Sampled @ 1845

Note: (TW/GP-6 Log)

TRC Field Soil Boring Log Information

TRC Project No: 204639 — Page 4 of 7

Project Name	Start Date	End Date	Boring Number
City of Madison - Cub Foods	6/26/13	6/26/13	GP/TW-4

Boring Drilled By	Drilling Method
Dusty - On-Site Env.	Direct Push

Drill Rig	Common Well Name	Initial Water Level	Surface Elevation	Borehole Diameter
Geoprobe - Truck Rig	-	-	-	2 Inches

Boring Location — State Plane: Easting 2152269 Northing 404566
SW 1/4 of SE 1/4 of Section 33 T 8 N, R 10E
Local Grid Location (If applicable): ☐ N ☐ E Feet ☐ S ☐ W Feet

County	State	DNR County Code	Civil Town/City/ or Village
DANE	WI	13	MADISON

Number	Length (In) Recovered	Blow Counts	Depth In Feet	Group Name, Percent & Range of Particle Sizes, Plasticity, Color, Odor, Moisture, Density/Consistency, Additional Comments, Geologic Origin (Stratigraphic Unit)	Sample Type	PID/FID	Standard Penetration	Well Diagram	RQD/ Comments
1	3/5		0-0.5	Asphalt					
			0.5-	Sandy clay (CL), 20-25% sand (Fn-C), non-plastic, brown, no odor, dry, loose.		>10			0.5-1.5
			1.5-	Sand (SW), Fn-C, 10-15% gravel (Fn-C), 5-10% Fns, light yellow brown, no odor, dry, loose.		>10			1.5-5
2	2.5/5		5-10	5'- same as above, 15-20% gravel (Fn-C).		>10			5-9.5
			9.5-	Sandy silt (ML), Fn-Med grained sand, non-plastic, light reddish brown, moist, no odor, med dense.		>10			9.5-10
3	4/4		10-14	10'- same as above, no odor, moist.		>10			10-12.5
			12.5-	layered silt and sand, well laminated, silt rich layers are greenish blue, sand is light brown, no odor, moist going to wet at 15', density increases with depth from Med→Dense,		>10			12.5-14
4	1/1		14-15	15' stiff. Refusal @ 15'		>10			14-15
				EOB @ 15' 6/26/13					

Logged By: Wesley J Bruce — Checked By: Ed O'Connell

F-204A (R 12-94)

Note: (See GP/TW-6 log)

Sampled: 1.5-5 @ 1350

Well: DTB: 14
DTW: 11.5
Sampled VOC's @ 0815 on 6/27/13 RCRA @ 1730 - Sample was unpreserved due to slow producing. and unfiltered.

4/8

TRC Field Soil Boring Log Information

TRC Project No: 204639 Page 5 of 7

Project Name	Start Date	End Date	Boring Number
City of Madison - Cub Foods	6/26/13	6/26/13	GP/TW-5

Boring Drilled By	Drilling Method
Dusty - On-site EW.	Direct Push

Drill Rig	Common Well Name	Initial Water Level	Surface Elevation	Borehole Diameter
Geoprobe - Truck Rig	—	—	—	2 Inches

Boring Location: State Plane — Easting 2157814 Northing 404459
SW 1/4 of SE 1/4 of Section 33 T 8 N,R 10E
Local Grid Location (If applicable): ☐ N Feet ☐ S ☐ E Feet ☐ W

County	State	DNR County Code	Civil Town/City/ or Village
DANE	WI	13	MADISON

Number	Length (In) Recovered	Blow Counts	Depth In Feet	Group Name, Percent & Range of Particle Sizes, Plasticity, Color, Odor, Moisture, Density/Consistency, Additional Comments, Geologic Origin (Stratigraphic Unit)	Sample Type	PID/FID	Standard Penetration	Well Diagram	RQD/ Comments
1	3/5		0-5	Road Gravel (Parking Lot)					
				0.5' — Sand and gravel (SP), Fn-C grained, 10-15% gravel (Fn-C), 5-10% Fines, non-plastic, light brown, no odor, dry, loose		>10			0.5-3.5
						>10			3.5-5
2	2.5/5		5-10	5' — Same as above, moisture increases with depth, no odor.					
				* took one sample due to amount of sample recovery and amount of gravel in sample.		>10			*5-10
				10' —					
3	2.5/5		10-15	Same as above, dry, no odor					
				14.5' — Sand and gravel (SP), 20-25% gravel (Fn-C), 5% cobbles, 10-20% Fines, non-plastic, light reddish brown, no odor, wet		>10			*10-15
4	2.5/5		15-19	15' — Same as above to 15.75		19.9			15-17
				15.75' — Silty sand (SM), 40-45% Fines, Fn-med grained, slightly plastic, light gray brown, slight petro odor, wet, dense. Refusal @ 19.0		46.3			17-19
				EOB @ 19.0 6/26/13					

Logged By: Wesley J Berge Checked By: Rod

F-204A (R 12-94)

Note: (see GP/TW-6 log)

Sampled: 3.5-5' @ 1405
17-19' @ 1415

WELL: DTB: 17.35
DTW: 12.25
Sampled @ 1540

TRC Field Soil Boring Log Information

TRC Project No: 204639 — Page 6 of 7

Project Name	Start Date	End Date	Boring Number
City of Madison - Cub Foods	6/26/13	6/26/13	GP-6 / TW-6

Boring Drilled By	Drilling Method
Dusty - On-Site Env.	Direct Push

Drill Rig	Common Well Name	Initial Water Level	Surface Elevation	Borehole Diameter
Geoprobe - Truck Rig	—	—	—	Inches

Boring Location — State Plane: Easting 2151946 Northing 404491
SW 1/4 of SE 1/4 of Section 33 T 8 N,R 10E
Local Grid Location (If applicable): ☐ N Feet ☐ S ☐ E Feet ☐ W

County	State	DNR County Code	Civil Town/City/ or Village
DANE	WI	13	MADISON

Number	Length (In) Recovered	Blow Counts	Depth In Feet	Group Name, Percent & Range of Particle Sizes, Plasticity, Color, Odor, Moisture, Density/Consistency, Additional Comments, Geologic Origin (Stratigraphic Unit)	Sample Type	PID/FID	Standard Penetration	Well Diagram	RQD/ Comments
1	2/5		0-5	Asphalt		>10			0-5
				0.5' — Sand and gravel (SP), 10-15% gravel (Fn-C), 5% cobbles, Fn-Med grained sand, Non-plastic, light brown, no odor, dry, loose.					
2	3/5		5-10	5' — Same as above, becomes increasingly more fine grained with depth, no odor, dry.		>10			5-7.5
						23.6			7.5-10
3	3.5/5		10-15	10' — Same as above, dry, no odor		34.7			10-14
				14' — Silty, Clayey, Sand (SP-SC), Fn-Med grained, 30-35% Fines, light reddish brown, NO odor, wet, soft, loose.		>10			14-15
4	4.5/5		15-20	15' — Sand (SP), Fn-Med grained, reddish brown, no odor, wet, loose.		>10			15-18.5
				18.5 0.25' layers of clay, reddish brown, dry, no odor intermittent					
				19.0 — Sandy clay (CL), 15-20% sand (Fn-Med), non-plastic, reddish brown, no odor, wet, stiff.		>10			18.5-20
				20' — EOB @ 20' 6/26/13					

Logged By: Wesley J Berger
Checked By: [signature]

F-204A (R 12-94)

Sampled: 7.5-10 @ 1150

Well: DTB: 18.2
DTW: 13.1
Sampled @ 1630

* NOTE: PID was getting inconsistent readings for the early part of the day due to high moisture content in the air and the rain earlier in the day. PID results may be skewed high for some readings.

TRC Field Soil Boring Log Information

TRC Project No: 204639 Page 7 of 7

Project Name	Start Date	End Date	Boring Number
City of Madison - Cub Foods	6/26/13	6/26/13	GP/TW-7

Boring Drilled By	Drilling Method
Dusty - On-Site Env.	Direct Push

Drill Rig	Common Well Name	Initial Water Level	Surface Elevation	Borehole Diameter
Geoprobe - Truck Rig	—	-	—	2 Inches

Boring Location: State Plane — Easting 2152116 Northing 404482
SW 1/4 of SE 1/4 of Section 33 T 8 N,R 10E
Local Grid Location (If applicable): ☐ N Feet ☐ S ☐ E Feet ☐ W

County	State	DNR County Code	Civil Town/City/ or Village
DANE	WI	13	MADISON

Number	Length (In) Recovered	Blow Counts	Depth In Feet	Group Name, Percent & Range of Particle Sizes, Plasticity, Color, Odor, Moisture, Density/Consistency, Additional Comments, Geologic Origin (Stratigraphic Unit)	Sample Type	PID/FID	Standard Penetration	Well Diagram	RQD/ Comments
1	2/5		0-5	Asphalt		>10			0-3
				0.5' - (SW) Sand, Fn-C, 10-15% gravel (Fn-C), 10% silt, light yellowish brown, slight petro odor @2-3, dry, loose.		>10			3-5
				5'					
2	4/5		5-10	Same as above, no odor, moist		>10			5-7.5
						>10			7.5-10
				9.8' - (CL) Clay, non-plastic, reddish brown, no odor, moist, slightly dense.					
3	4/5		10-15	10' Same as above, no odor, moist					
						>10			10-12.5
				10.5' - (SW) Sand, 10-15% gravel (Fn-C), Fn-C, 5-10% Fines, light brown, moist, no odor, loose.		>10			12.5-15
				12.5' - (SP) Sand, 20-25% fines, Fn-Med, slightly plastic, light brown, no odor, wet, loose.					/
4	5/5		15-20	15' Same as above, no odor, wet		>10			15-17
				17' - (CL) Greenish blue clay layer begins in 0.05-0.2' laminations, no odor, moist, med dense, stiff. EOB @ 20' 6/26/13		>10			17-20

Logged By: Wesley J Bruya
Checked By: [signature]

F-204A (R 12-94)

NOTE: (See TW-6)

Sample: 0.5-3 @ 1210
12.5-15 @ 1220

well: DTB: 19.9
DTW: 14.3
Sampled @ 1715

Attachment 2

Asbestos Analytical Results

Industrial Hygiene Laboratory
21 Griffin Road North
Windsor, CT 06095
(860) 298-6308

TRC
Results you can rely on

BULK ASBESTOS ANALYSIS REPORT

CLIENT: City of Madison

Lab Log #: 0042592
Project #: 204639.0000.0000
Date Received: 07/02/2013
Date Analyzed: 07/03/2013

Site: Nakoosa Trail, Madison, WI

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials		Asbestos %	Asbestos Type
R1-1	Grey	Yes	No	--		---	ND<1%	None
R1-2	Grey	Yes	No	--		---	ND<1%	None
R1-3	Grey	Yes	No	--		---	ND<1%	None
R2-1	Black	Yes	No	--	90%	synthetic fiber	ND<1%	None
R2-2	Black	Yes	No	--	90%	synthetic fiber	ND<1%	None
R2-3	Black	Yes	No	--	90%	synthetic fiber	ND<1%	None
R3-1	Black	Yes	No	--		---	ND<1%	None
R3-2	Black	Yes	No	--		---	ND<1%	None
R3-3	Black	Yes	No	--		---	ND<1%	None
FT1-1	Black (mastic)	No	Yes	1		---	10%	Chrysotile
FT1-1	White (tile)	No	Yes	2		---	10%	Chrysotile
FT1-2	--	--	--	--		--	NA/PS	--
FT1-2	--	--	--	--		--	NA/PS	--
FT1-3	--	--	--	--		--	NA/PS	--
FT1-3	--	--	--	--		--	NA/PS	--
CT1-1	White/Beige	Yes	No	--	60% 20%	cellulose mineral wool	ND<1%	None
CT1-2	White/Beige	Yes	No	--	60% 20%	cellulose mineral wool	ND<1%	None

Industrial Hygiene Laboratory
21 Griffin Road North
Windsor, CT 06095
(860) 298-6308

TRC
Results you can rely on

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
CT1-3	White/Beige	Yes	No	--	60% cellulose 20% mineral wool	ND<1%	None
CB1-1	Tan (glue)	No	Yes	1	---	ND<1%	None
CB1-1	Dark Brown (cove base)	No	Yes	2	---	ND<1%	None
CB1-2	Tan (glue)	No	Yes	1	---	ND<1%	None
CB1-2	Dark Brown (cove base)	No	Yes	2	---	ND<1%	None
CB1-3	Tan (glue)	No	Yes	1	---	ND<1%	None
CB1-3	Dark Brown (cove base)	No	Yes	2	---	ND<1%	None

Reporting limit- asbestos present at 1%
ND<1% - asbestos was not detected
Trace - asbestos was observed at level of less than 1%
NA/PS - Not Analyzed / Positive Stop

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, negative results must be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation (1982), and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116), July 1993, R.L. Perkins and B.W. Harvey which utilizes polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2014. TRC is an American Industrial Hygiene Association (AIHA) accredited lab for PLM effective through October 1, 2014. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and the QC data related to the samples is available upon written request from the client.

Analyzed by: K. Williamson — Kathleen Williamson, Laboratory Manager

Reviewed by: Amanda Parkins — Amanda Parkins, Approved Signatory

Date Issued 07/05/2013

TRC

Edition: October 2009
Supersede Previous Edition

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

City of Madison

LAB ID #. 42592

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
204639.0000.0000	Nakoosa Trail ~~DOT Bridge Inspection~~		PLM: 8hr 24hr 48hr X 3day TEM: 24hr 48hr 3day 5day

SIGNATURE	INSPECTOR
James D Gudek	James Gudek

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
R1-1	6/27/13	8:30		X	Roof	X					gray caulk
R1-2		8:32									
R1-3		8:33									
R2-1		8:35				X					black felt
R2-2		8:40									
R2-3		8:42									
R3-1		8:50				X					black caulk
R3-2		8:52									
R3-3		8:55									
FT1-1		9:15			Former pharmacy	X					12" white floor tile
FT1-2		9:17									

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
James D Gudek	6/29/13	7/2/13			
(Printed) James D Gudek	Time: 14:30	(Printed) 1000	(Printed)	Time:	(Printed)

Remarks:

Condition of Samples: OK
Acceptable: Yes ✓ No ____
Comments:

3/4

TRC

Edition: October 2009
Supersede Previous Edition

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 42592

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
204639.0000.0000	Nakoosa Trail ~~DOT Bridge Inspection~~		PLM: [ ] 8hr [ ] 24hr [ ] 48hr [X] 3day TEM: [ ] 24hr [ ] 48hr [ ] 3day [ ] 5day

SIGNATURE: James Gondek

INSPECTOR: James Gondek

FIELD SAMPLE NUMBER	DATE	TIME	TYPE: COMP	TYPE: GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
FT1-3	6/27/13	9:20		X		X					12" White floor tile
CT1-1	"	"		"		X					ceiling tile
CT1-2	"	"		"		"					"
CT1-3	"	"		"		"					"
CB1-1	"	"		"		X					dark brown 4" Cove base
CB1-2	"	"		"		"					"
CB1-3	"	"		"		"					"

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
James Gondek	6/29/13	7/2/13			
(Printed) James Gondek	Time: 14:30	(Printed) 1000	(Printed)	Time:	(Printed)

Remarks:

Condition of Samples: OK
Acceptable: Yes ___ No ___
Comments:

4/4

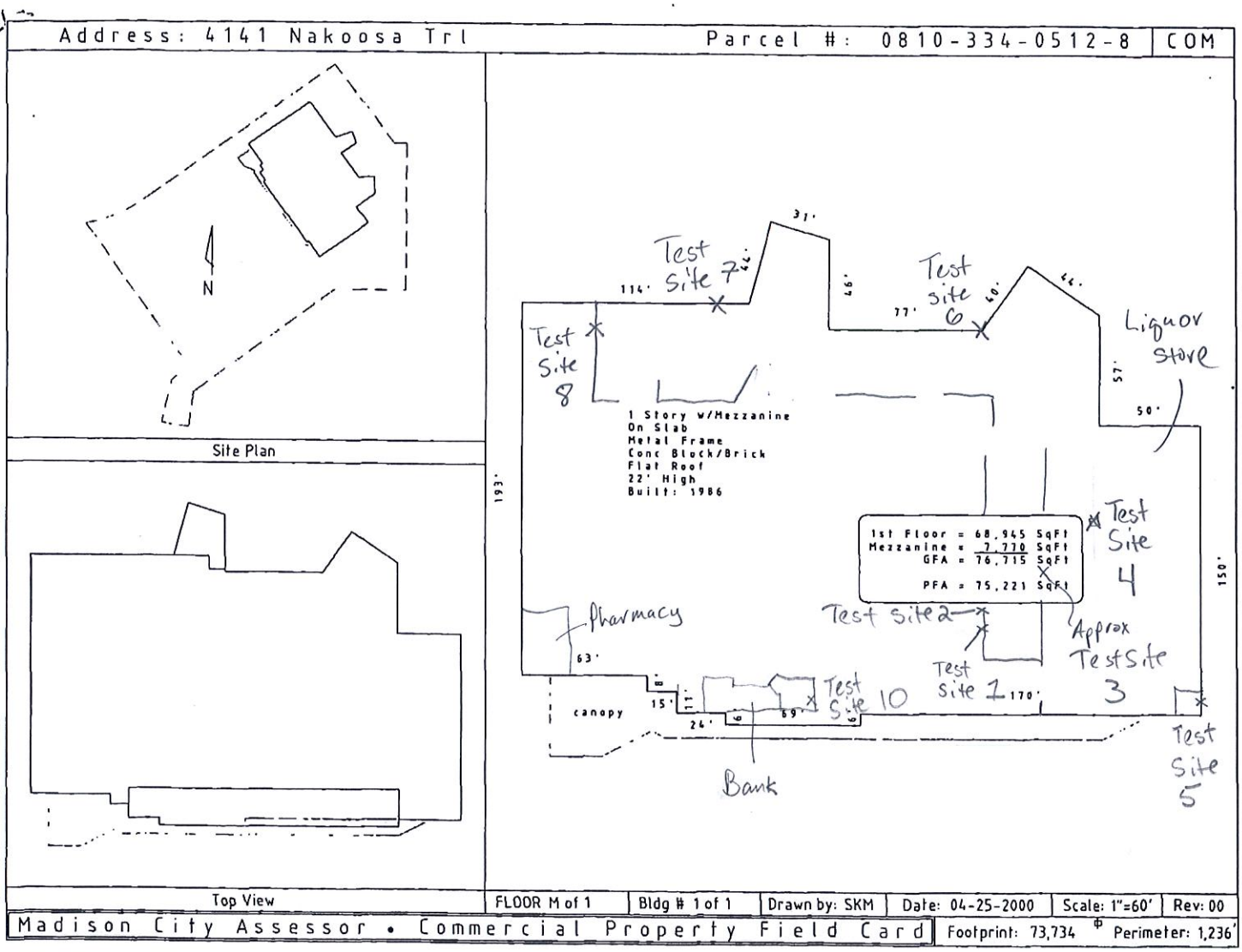
Attachment 3

Mold Analytical Results

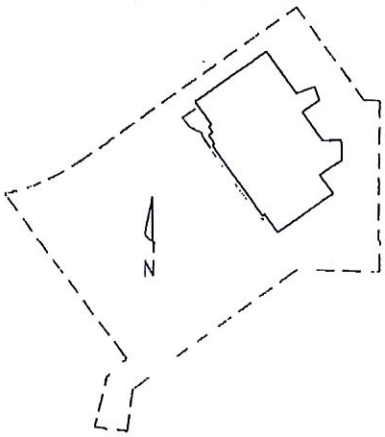
Approximate Locations of Mold Samples

Former Cub Foods

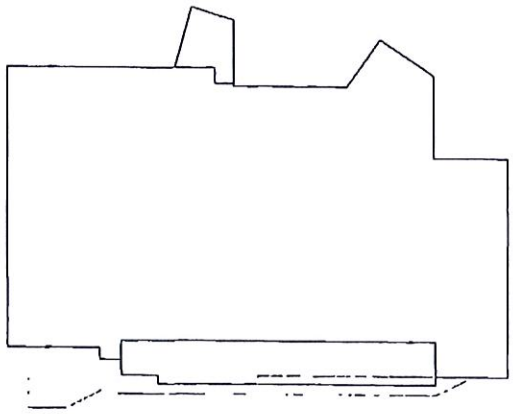
Madison, WI



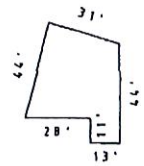
Address: 4141 Nakoosa Trl | Parcel #: 0810-334-0512-8 | COM



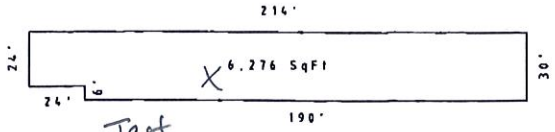
Site Plan



Top View



Mezzanine



Test Site 9

FLOOR M of 1	Bldg # 1 of 1	Drawn by: SKM	Date: 04-25-2000	Scale: 1"=60'	Rev: 00

Madison City Assessor • Commercial Property Field Card | Footprint: 73,734 | Perimeter: 1,236'

SanAir Technologies Laboratory

Analysis Report

prepared for

Rapid Response Remediation

Report Date: 7/1/2013
Project Name: Nakoosa Trail Madison
Project #: 204639
SanAir ID#: 13014032

NVLAP LAB CODE 200870-0

AIHA LAP, LLC ACCREDITED LABORATORY ENVIRONMENTAL MICROBIOLOGY ISO/IEC 17025:2005 www.aihaaccreditedlabs.org LAB #162952

Virginia SBE Certification # 652931

Texas Licensed Mold Analysis Laboratory License # LAB0166

SanAir Technologies Laboratory

804.897.1177 www.sanair.com

SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

Rapid Response Remediation
6907 university ave
#122
Middleton, WI 53562

July 1, 2013

SanAir ID # 13014032
Project Name: Nakoosa Trail Madison
Project Number: 204639

Dear Rob Mozgawa,

We at SanAir would like to thank you for the work you recently submitted. The 10 sample(s) were received on Friday, June 28, 2013 via FedEx. The final report(s) is enclosed for the following sample (s): B961727, B961851, B950538, B950357, B948533, B960609, B961926, B957743, B961874, B961894.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

L. Claire Macdonald
Microbiology Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:
- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

sample conditions:
10 sample(s) in Good condition

SanAir Technologies Laboratory, Inc.

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Web: http://www.sanair.com E-mail: iaq@sanair.com

SanAir ID Number

13014032

FINAL REPORT

Name: Rapid Response Remediation
Address: 6907 university ave
#122
Middleton, WI 53562

Project Number: 204639
P.O. Number: 58792
Project Name: Nakoosa Trail Madison

Collected Date: 6/27/2013
Received Date: 6/28/2013 10:20:00 AM
Report Date: 7/1/2013 1:59:44 PM
Analyst: Goodwin, Aaron M.

Direct Identification Analysis

SanAir ID: 13014032-001 Sample #: B961727 ID: Test Site 1

D3-Direct ID Analysis on Tape using STL 112
Quantitative Direct ID

Fungi	Estimated Amount	
Alternaria species	Rare	2 spores / cm sq.
Basidiospores	Rare	2 spores / cm sq.
Smuts/Myxomycetes	Rare	1 spore / cm sq.

Tape was slightly covered with debris which might have occluded fungi.

SanAir ID: 13014032-002 Sample #: B961851 ID: Test Site 2

D3-Direct ID Analysis on Tape using STL 112
Quantitative Direct ID

Fungi	Estimated Amount	
Aspergillus/Penicillium	Rare	120 spores / cm sq.
Chaetomium species	Rare	3 spores / cm sq.
Stachybotrys species	Heavy	350,000 spores / cm sq.
Ulocladium species	Light	100 spores / cm sq.

SanAir ID: 13014032-003 Sample #: B950538 ID: Test Site 3

D3-Direct ID Analysis on Tape using STL 112
Quantitative Direct ID

Fungi	Estimated Amount	
Alternaria species	Rare	2 spores / cm sq.
Aspergillus/Penicillium	Rare	5 spores / cm sq.
Cladosporium species	Rare	25 spores / cm sq.

SanAir ID: 13014032-004 Sample #: B950357 ID: Test Site 4

D3-Direct ID Analysis on Tape using STL 112
Quantitative Direct ID

Fungi	Estimated Amount	
Cladosporium species	Heavy	45,000 spores / cm sq.
Ulocladium species	Heavy	22,500 spores / cm sq.

Certification

Signature: Aaron Goodwin
Date: 7/1/2013

Reviewed: L. Claire Macdonald
Date: 7/1/2013

SanAir Technologies Laboratory, Inc.
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804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

SanAir ID Number
13014032
FINAL REPORT

Name: Rapid Response Remediation
Address: 6907 university ave
#122
Middleton, WI 53562

Project Number: 204639
P.O. Number: 58792
Project Name: Nakoosa Trail Madison

Collected Date: 6/27/2013
Received Date: 6/28/2013 10:20:00 AM
Report Date: 7/1/2013 1:59:44 PM
Analyst: Goodwin, Aaron M.

Direct Identification Analysis

SanAir ID: 13014032-005 Sample #: B948533 ID: Test Site 5

D3-Direct ID Analysis on Tape using STL 112
Quantitative Direct ID

Fungi	Estimated Amount	
No Fungi Detected		

SanAir ID: 13014032-006 Sample #: B960609 ID: Test Site 6

D3-Direct ID Analysis on Tape using STL 112
Quantitative Direct ID

Fungi	Estimated Amount	
Cladosporium species	Light	1,392 spores / cm sq.
Smuts/Myxomycetes	Rare	3 spores / cm sq.
Ulocladium species	Rare	1 spore / cm sq.

Tape was slightly covered with debris which might have occluded fungi.

SanAir ID: 13014032-007 Sample #: B961926 ID: Test Site 7

D3-Direct ID Analysis on Tape using STL 112
Quantitative Direct ID

Fungi	Estimated Amount	
No Fungi Detected		

SanAir ID: 13014032-008 Sample #: B957743 ID: Test Site 8

D3-Direct ID Analysis on Tape using STL 112
Quantitative Direct ID

Fungi	Estimated Amount	
Aspergillus/Penicillium	Rare	12 spores / cm sq.
Cladosporium species	Heavy	260,000 spores / cm sq.
Ulocladium species	Rare	1 spore / cm sq.

Certification

Signature: Aaron Goodwin
Date: 7/1/2013

Reviewed: L. Claire Macdonald
Date: 7/1/2013

SanAir Technologies Laboratory, Inc.

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SanAir ID Number

13014032

FINAL REPORT

Name: Rapid Response Remediation
Address: 6907 university ave
#122
Middleton, WI 53562

Project Number: 204639
P.O. Number: 58792
Project Name: Nakoosa Trail Madison

Collected Date: 6/27/2013
Received Date: 6/28/2013 10:20:00 AM
Report Date: 7/1/2013 1:59:44 PM
Analyst: Goodwin, Aaron M.

Direct Identification Analysis

SanAir ID: 13014032-009 Sample #: B961874 ID: Test Site 9

D3-Direct ID Analysis on Tape using STL 112
Quantitative Direct ID

Fungi	Estimated Amount	
No Fungi Detected		

SanAir ID: 13014032-010 Sample #: B961894 ID: Test Site 10

D3-Direct ID Analysis on Tape using STL 112
Quantitative Direct ID

Fungi	Estimated Amount	
Alternaria species	Rare	2 spores / cm sq.
Aspergillus/Penicillium	Rare	2 spores / cm sq.

Certification

Signature: Date: 7/1/2013

Reviewed: L. Claire Macdonald Date: 7/1/2013

SanAir Technologies Laboratory, Inc.

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SanAir ID Number

13014032

FINAL REPORT

Name: Rapid Response Remediation
Address: 6907 university ave
#122
Middleton, WI 53562

Project Number: 204639
P.O. Number: 58792
Project Name: Nakoosa Trail Madison

Collected Date: 6/27/2013
Received Date: 6/28/2013 10:20:00 AM
Report Date: 7/1/2013 1:59:44 PM

ORGANISM DESCRIPTIONS

The descriptions of the organisms presented are derived from various reference materials. The laboratory report is based on the data derived from the samples submitted and no interpretation of the data, as to potential, or actual, health effects resulting from exposure to the numbers of organisms found, can be made by laboratory personnel. Any interpretation of the potential health effects of the presence of this organism must be made by qualified professional personnel with first hand knowledge of the sample site, and the problems associated with that site.

ALTERNARIA SPECIES - This genus compromises a large number of saprobes and plant pathogens. It is one of the predominate airborne fungal spores indoor and outdoor. Outdoors it may be isolated from samples of soil, seeds, and plants. It is one of the more common fungi found in nature, extremely widespread and ubiquitous. Conidia are easily carried by the wind, with peak concentrations in the summer and early fall. It is commonly found in outdoor samples. It is often found in indoor environments, on drywall, ceiling tiles, in house dust, carpets, textiles, and on horizontal surfaces in building interiors. Often found on window frames. *Health Effects:* In humans, it is recognized to cause type I and III allergic responses. Because of the large size of the spores, it can be deposited in the nose, mouth and upper respiratory tract, causing nasal septum infections. It has been known to cause Baker's asthma, farmer's lung, and hay fever. It has been associated with hypersensitivity pneumoniti, sinusitis, deratomycosis, onychomycosis, subcutaneous phaeohyphomycosis, and invasive infection. Common cause of extrinsic asthma (immediate-type hypersensitivity: type I). Acute symptoms include edema and bronchiospasms, chronic cases may develop pulmonary emphysema.
References: Flannigan, Brian, Robert A. Samson, and J. David Miller, eds. Microorganisms in Home and Indoor Work Environments: Diversity, Health Impacts, Investigation, and Control. London and New York: Taylor & Francis, 2001.

ASPERGILLUS/PENICILLIUM - These spores are easily aerosolized. Only through the visualization of reproductive structures can the genera be distinguished. Also included in this group are the spores of the genera Acremonium, Phialophora, Verticillium, Paecilomyces, etc. Small, round spores of this group lack the necessary distinguishing characteristics when seen on non-viable examination. *Health Effects:* Can cause a variety of symptoms including allergic reactions. Most symptoms occur if the individual is immunocompromised in some way (HIV, cancer, etc). Both Penicillium and Aspergillus spores share similar morphology on non-viable analysis and therefore are lumped together into the same group.

BASIDIOSPORES - From the Subphylum Basidiomycotina which contains the mushrooms, shelf fungi, and a variety of other macrofungi. They are saprophytes, ectomycorrhizal fungi or agents of wood rot, which may destroy the structure wood of buildings. It is extremely difficult to identify a specific genera of mushrooms by using standard culture plate techniques. Some basidiomycete spores can be identified by spore morphology; however, some care should be exercised with regard to specific identification. The release of basidiospores is dependant upon moisture, and they are dispersed by wind. *Health Effects:* Many have the potential to produce a variety of toxins. Members of this group may trigger Type I and III fungal hypersensitivity reactions. Rarely reported as opportunistic pathogens.

CHAETOMIUM SPECIES - It is an ascomycete. It is found on a variety of substrates containing cellulose including paper and plant compost. It can be found on the damp or water damaged paper in sheetrock after a long term water damage. Several species have been reported to play a major role in decomposition of cellulose made materials. These fungi are able to dissolve the cellulose fibers in cotton and paper, and thus cause these materials to disintegrate. The process is especially rapid under moist conditions. *Health Effects:* Chaetomium can produce type I fungal hypersensitivity and has caused onychomycosis (nail infections).
References: Flannigan, Brian, Robert A. Samson, and J. David Miller, eds. Microorganisms in Home and Indoor Work Environments: Diversity, Health Impacts, Investigation, and Control. London and New York: Taylor & Francis, 2001.

CLADOSPORIUM SPECIES - The most commonly identified outdoor fungus. The outdoor numbers are reduced in the winter and are often high in the summer. Often found indoors in numbers less than outdoor numbers. It is commonly found on the surface of fiberglass duct liner in the interior of supply ducts. A wide variety of plants are food sources for this fungus. It is found on dead plants, woody plants, food, straw, soil, paint and textiles. Often found in dirty refrigerators and especially in reservoirs where condensation is collected, on moist window frames it can easily be seen covering the whole painted area with a velvety olive green layer. *Health Effects:* It is a common allergen. It can cause mycosis. Common cause of extrinsic asthma (immediate-type hypersensitivity: type I). Acute symptoms include edema and bronchiospasms, chronic cases may develop pulmonary emphysema. Illnesses caused by this genus can include phaeohyphomycosis, chromoblastomycosis, hay fever and common allergies.
References: Flannigan, Brian, Robert A. Samson, and J. David Miller, eds. Microorganisms in Home and Indoor Work Environments: Diversity, Health Impacts, Investigation, and Control. London and New York: Taylor & Francis, 2001.

SanAir Technologies Laboratory, Inc.

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Web: http://www.sanair.com E-mail: iaq@sanair.com

SanAir ID Number

13014032

FINAL REPORT

Name: Rapid Response Remediation
Address: 6907 university ave
#122
Middleton, WI 53562

Project Number: 204639
P.O. Number: 58792
Project Name: Nakoosa Trail Madison

Collected Date: 6/27/2013
Received Date: 6/28/2013 10:20:00 AM
Report Date: 7/1/2013 1:59:44 PM

ORGANISM DESCRIPTIONS

The descriptions of the organisms presented are derived from various reference materials. The laboratory report is based on the data derived from the samples submitted and no interpretation of the data, as to potential, or actual, health effects resulting from exposure to the numbers of organisms found, can be made by laboratory personnel. Any interpretation of the potential health effects of the presence of this organism must be made by qualified professional personnel with first hand knowledge of the sample site, and the problems associated with that site.

SMUTS/MYXOMYCETES - Smuts and Myxomycetes are parasitic plant pathogens. They are typically grouped together due to their association with plants, the outdoors and because they share similar microscopic morphology. *Health Effects:* Can produce type I fungal hypersensitivity reactions.
References: Martin, G.W., C.J. Alexopoulos, and M.L. Farr. The Genera of Myxomycetes. Iowa City, Iowa: University of Iowa Press, 1983.

STACHYBOTRYS SPECIES - This organism is rarely found in outdoor samples. It is usually difficult to find in indoor air samples unless it is physically disturbed because the spores are in a gelatinous mass. Grows well on wet media, preferably containing cellulose. It proliferates in the indoor environment with long term water damage, growing on wallpaper, gypsum board, and textiles. As a general rule, air cultures for Stachybotrys yields unpredictable results, mainly due to the fact that this fungus is usually accompanied by other fungi such as Aspergillus and Penicillium that normally are better aerosolized than Stachybotrys. This is a slow growing fungus on media. It does not compete well with other rapidly growing fungi. The black fungi grow on building material with high cellulose content and low nitrogen content. Appropriate media for the growth of this organism will have high cellulose content and low nitrogen content. *Health Effects:* It has worldwide distribution and has been reported to cause dermatitis, cough, rhinitis, and headache, although no definitive reports of human infections have been verified. It has the ability to cause type I hypersensitivity. It is a documented mycotoxin producer.
References: Flannigan, Brian, Robert A. Samson, and J. David Miller, eds. Microorganisms in Home and Indoor Work Environments: Diversity, Health Impacts, Investigation, and Control. London and New York: Taylor & Francis, 2001.

ULOCLADIUM SPECIES - Isolated from soil, dead plants and cellulose materials. Found on textiles. It can be found on many types of materials, but mostly found on decaying materials. Has a greater water activity need for growth and is therefore considered a water indicator organism. *Health Effects:* Reported to be a major allergen. Rarely causes subcutaneous infections in humans. It has a high water requirement.
References: De Hoog, G.S., J. Guarro, J. Gene, and M.J. Figueras. Atlas of Clinical Fungi, 2nd Edition. The Netherlands: CBS, 2000.

SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B - Powhatan, VA 23139
804-897-1177 / 888-895-1177 / Fax 804-897-0070
www.sanair.com

Microbiology Chain of Custody

SanAir ID Number: 1304032

Company: Rapid Response Remediation	Project Number: 204639	Phone #: 608-203-5788
Address: 6907 university ave	Project Name: Nakoosa Trail Madison	Phone #: 608-225-2216
City, State, Zip: Middleton, WI 53562	Date Collected: 27 June 2013	Fax #: 608-203-8118
Samples Collected By: Rob Mozgawa	P.O. Number: 58792	Email: kmozgawa@r3mail.net

Sample Types		Analysis Types	Turn Around Time
AC	Air Cassette	**A1** - Identification and Enumeration of Fungal spores, plus total dander, fiber, and pollen count	Hours 3/6/24/48-Std
		A2 - Identification and Enumeration of Fungal spores only	Hours 3/6/24/48-Std
T B S*	Tape Bulk Swab*	**D1** - Direct Identification of Fungi	Hours 3/6/24/48-Std
		D2 - Direct Identification of Mites, Insects, Pollen, etc.	Hours 3/6/24/48-Std
AP	Air Plate	**C1** - Culture Identification and Enumeration of Fungi only	5-10 Days
		C2 - Culture Identification and Enumeration of Bacteria only	2-4 Days
B	Bulk	**C3** - Culture Identification and Enumeration of Fungi and Bacteria	5-10 Days
S	Swab	**C4** - Culture Identification and Enumeration of Thermophilic Bacteria with C2 or C3 analysis	2-4 or 5-10 Days
W	Water	**L1** – Culture Identification and Enumeration of *Legionella sp.*	7-10 Days
D	Dust	**M1** – Dust Mite Allergen Test	Hours 3/6/24/48-Std

SanAir Technologies Laboratory offers speciation by PCR. Please call for details and pricing.

Sample #	Sample Identification	Sample Type	Analysis Type(s)	Turn Around Time	Total Volume (L) or Area (in^2)	Time Start – Stop	
B961727	TEST SITE 1	T	D3	48			
B961851	" " 2	T	D3	48			
B950538	" " 3	T	D3	48			
B950357	" " 4	T	D3	48			
B948533	" " 5	T	D3	48			
B960609	" " 6	T	D3	48			
B961926	" " 7	T	D3	48			
B957743	" " 8	T	D3	48			
B961874	" " 9	T	D3	48			
B961894	" " 10	T	D3	48			
	TRC COMPANIES						
	4141 Nakoosa Trail						
	Madison, WI 53714						

Special Instructions	N/A

Relinquished by	Date	Time	Received by	Date	Time
				JUN 28 2013	10:20 AM

Unless scheduled, the turn around time for all samples received after 3 pm Friday will begin at 8 am Monday morning. Weekend or Holiday work must be scheduled ahead of time and is charged 150% of analytical rate.

*Although we allow Direct Identification from a swab sample, best results are received from tape samples.

Additional Information

Direct Identification Analyses

Direct identification analyses can be performed on tape, bulk, dust and swab samples. Direct identification reports indicate the evidence of possible active growth for each genus of fungi present. Whether or not these spores are viable or nonviable cannot be determined using this type of analysis; the sample would have to be cultured in order to determine viability. Keep in mind that this report is valid only for the exact spot in which the sample was taken. Potential mold contamination of other areas can only be extrapolated from the data reported. Light microscopy at a 400 to 1000x magnification is used for direct identification analysis.

For meaningful results, the person sampling the area is encouraged to include a blank tape sample in order to check for contamination during sampling or shipment. Be sure to check the expiration date of any tape. It is recommended not to use expired tapes as the gel on the slide deteriorates thereby losing the tackiness necessary to retain fungi.

The genera *Aspergillus* and *Penicillium* are typically composed of small, round spores that are difficult to distinguish from each other without the presence of intact conidiophores (structures from which spores are formed and released). In this case, they are grouped into the category *Aspergillus* / *Penicillium*. Other fungi that produce spores of similar characteristics to *Aspergillus* and *Penicillium* may also be placed into this combined category in the absence of intact conidiophores (e.g. *Paecilomyces*, *Gliocladium*, *Trichoderma*, etc.).

D3 Analysis: Fungi with Description of Possible Growth, Plus Count Estimates Per Square Inch

This analysis includes spore count estimates for each fungus identified.

Estimated Amount	Indication of Growth	Evidence of Mycelial Fragments / Conidiophores
Rare	Not Likely	None
Light	Possible	Some, 10 to 25% of Tape Covered
Moderate	Probable	Abundant, 25 to 50% of Tape Covered
Heavy	Significant	Throughout, 50 to 100% of Tape Covered

NOTE: Tapes should not be overloaded with debris as that may occlude fungi.

All counts are estimates based on the area of 1 square inch. Any estimate higher than 500,000 spores will be reported as >500,000 spores.

Disclaimer

This report is the sole property of the client named on the SanAir Technologies Laboratory chain-of-custody. Neither results nor reports will be discussed with or released to any third party without our client's written permission. The information provided in this report applies only to the samples submitted and is relevant only for the date, time and exact location of sampling. ***SanAir will not provide any opinion on the safety of a building as visual inspection and knowledge of water damage and past remediation, among other elements, is essential in this decision.*** *SanAir is accredited by AIHA in the EMLAP program for Direct Examination of bulk and surface samples.*

This report does not constitute endorsement by AIHA/NVLAP and/or any other U.S. governmental agencies; and may not be certified by every local, state and federal regulatory agencies.

SanAir Technologies Laboratory, Inc.
IAQ Microbiology Services

1551 Oak Bridge Drive, Suite B
Powhatan, VA 23139
www.sanair.com

Phone: 888.895.1177
Phone: 804.897.1177
Fax: 804.897.0070

D3 Analysis Information

Results for direct identification analyses (D3) are quantitative. Estimates of mycelial growth as rare, light, moderate, or heavy are provided in addition to the counts, to provide a better overall picture of the sampled area. These estimates apply only to Quantitative Direct Analysis (D3).

Rare.....No signs of active growth. No mycelial fragments seen.

Light.....Possible active growth. Some mycelial fragments seen.

Moderate…….Probable active growth. Mycelial fragments throughout.

Heavy.....Significant active growth. Mycelial fragments throughout.

Attachment 4

Soil and Groundwater Analytical Results

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

July 15, 2013

ALYSSA SELLWOOD
TRC - Madison
744 HEARTLAND TRAIL
Madison, WI 53717

RE: Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Dear ALYSSA SELLWOOD:
Enclosed are the analytical results for sample(s) received by the laboratory on June 28, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

cc: Wes Braga, TRC

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4080362001	GP-1 (5-7')	Solid	06/26/13 14:35	06/28/13 09:45
4080362002	GP-2 (8-10')	Solid	06/26/13 14:25	06/28/13 09:45
4080362003	GP-4 (1.5-5')	Solid	06/26/13 13:50	06/28/13 09:45
4080362004	GP-5 (3.5-5')	Solid	06/26/13 14:05	06/28/13 09:45
4080362005	GP-5 (17-19')	Solid	06/26/13 14:15	06/28/13 09:45
4080362006	GP-6 (7.5-10')	Solid	06/26/13 11:50	06/28/13 09:45
4080362007	GP-7 (0.5-3')	Solid	06/26/13 12:10	06/28/13 09:45
4080362008	TW-1	Water	06/26/13 15:20	06/28/13 09:45
4080362009	TW-2	Water	06/26/13 19:00	06/28/13 09:45
4080362010	TW-3	Water	06/26/13 18:45	06/28/13 09:45
4080362011	TW-5	Water	06/26/13 15:40	06/28/13 09:45
4080362012	TW-6	Water	06/26/13 16:30	06/28/13 09:45
4080362013	TW-7	Water	06/26/13 17:15	06/28/13 09:45
4080362014	GP-7 (12.5-15')	Solid	06/26/13 12:20	06/28/13 09:45
4080362015	TW-4	Water	06/27/13 08:15	06/28/13 09:45
4080362016	GP-1 (18-20')	Solid	06/26/13 14:45	06/28/13 09:45
4080362017	TRIP BLANK	Water	06/26/13 00:00	06/28/13 09:45

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4080362001	**GP-1 (5-7')**	EPA 8260	SMT	64
		ASTM D2974-87	BLF	1
4080362002	**GP-2 (8-10')**	EPA 8260	SMT	64
		ASTM D2974-87	BLF	1
4080362003	**GP-4 (1.5-5')**	EPA 8082	BLM	10
		EPA 6010	DLB	7
		EPA 7471	CMS	1
		EPA 8270	RJN	70
		EPA 8260	SMT	64
		ASTM D2974-87	BLF	1
4080362004	**GP-5 (3.5-5')**	EPA 8260	SMT	64
		ASTM D2974-87	BLF	1
4080362005	**GP-5 (17-19')**	EPA 8260	SMT	64
		ASTM D2974-87	BLF	1
4080362006	**GP-6 (7.5-10')**	EPA 6010	DLB	1
		EPA 8260	SMT	64
		ASTM D2974-87	BLF	1
4080362007	**GP-7 (0.5-3')**	EPA 6010	DLB	1
		EPA 8260	SMT	64
		ASTM D2974-87	BLF	1
4080362008	**TW-1**	EPA 8260	LAP	64
4080362009	**TW-2**	EPA 8260	LAP	64
4080362010	**TW-3**	EPA 8260	LAP	64
4080362011	**TW-5**	EPA 8260	LAP	64
4080362012	**TW-6**	EPA 6010	DLB	1
		EPA 8260	LAP	64
4080362013	**TW-7**	EPA 6010	DLB	1
		EPA 8260	LAP	64
4080362014	**GP-7 (12.5-15')**	EPA 6010	DLB	1
		EPA 8260	SMT	64
		ASTM D2974-87	BLF	1
4080362015	**TW-4**	EPA 6010	MMZ	7
		EPA 7470	CMS	1
		EPA 8260	LAP	64
4080362016	**GP-1 (18-20')**	EPA 8260	SMT	64
		ASTM D2974-87	BLF	1
4080362017	**TRIP BLANK**	EPA 8260	LAP	64

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

HITS ONLY

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
4080362001	**GP-1 (5-7')**					
ASTM D2974-87	Percent Moisture	16.7	%	0.10	07/01/13 17:05	
4080362002	**GP-2 (8-10')**					
ASTM D2974-87	Percent Moisture	15.5	%	0.10	07/01/13 17:05	
4080362003	**GP-4 (1.5-5')**					
EPA 6010	Arsenic	1.4J	mg/kg	1.8	07/02/13 13:09	
EPA 6010	Barium	28.2	mg/kg	0.45	07/02/13 13:09	
EPA 6010	Cadmium	0.17J	mg/kg	0.45	07/02/13 13:09	
EPA 6010	Chromium	4.4	mg/kg	0.45	07/02/13 13:09	
EPA 6010	Lead	1.8	mg/kg	0.89	07/02/13 13:09	
ASTM D2974-87	Percent Moisture	5.0	%	0.10	07/01/13 17:05	
4080362004	**GP-5 (3.5-5')**					
ASTM D2974-87	Percent Moisture	2.1	%	0.10	07/01/13 17:05	
4080362005	**GP-5 (17-19')**					
EPA 8260	1,2,4-Trimethylbenzene	334	ug/kg	68.6	07/02/13 01:58	
EPA 8260	1,3,5-Trimethylbenzene	86.4	ug/kg	68.6	07/02/13 01:58	
EPA 8260	Ethylbenzene	150	ug/kg	68.6	07/02/13 01:58	
EPA 8260	Naphthalene	123	ug/kg	68.6	07/02/13 01:58	
EPA 8260	m&p-Xylene	511	ug/kg	137	07/02/13 01:58	
EPA 8260	n-Propylbenzene	31.6J	ug/kg	68.6	07/02/13 01:58	
EPA 8260	o-Xylene	85.6	ug/kg	68.6	07/02/13 01:58	
ASTM D2974-87	Percent Moisture	12.5	%	0.10	07/01/13 17:25	
4080362006	**GP-6 (7.5-10')**					
EPA 6010	Lead	1.5	mg/kg	0.95	07/02/13 13:11	
ASTM D2974-87	Percent Moisture	2.9	%	0.10	07/01/13 17:25	
4080362007	**GP-7 (0.5-3')**					
EPA 6010	Lead	17.5	mg/kg	0.99	07/02/13 13:13	
ASTM D2974-87	Percent Moisture	5.7	%	0.10	07/01/13 17:25	
4080362008	**TW-1**					
EPA 8260	n-Butylbenzene	22.1	ug/L	5.0	06/29/13 20:42	
EPA 8260	sec-Butylbenzene	7.2J	ug/L	25.0	06/29/13 20:42	
EPA 8260	Ethylbenzene	499	ug/L	5.0	06/29/13 20:42	
EPA 8260	Isopropylbenzene (Cumene)	36.6	ug/L	5.0	06/29/13 20:42	
EPA 8260	p-Isopropyltoluene	5.0J	ug/L	5.0	06/29/13 20:42	
EPA 8260	Naphthalene	108	ug/L	25.0	06/29/13 20:42	
EPA 8260	n-Propylbenzene	129	ug/L	5.0	06/29/13 20:42	
EPA 8260	Toluene	15.7	ug/L	5.0	06/29/13 20:42	
EPA 8260	1,2,4-Trimethylbenzene	924	ug/L	25.0	06/29/13 20:42	
EPA 8260	1,3,5-Trimethylbenzene	33.0	ug/L	25.0	06/29/13 20:42	
EPA 8260	m&p-Xylene	632	ug/L	10.0	06/29/13 20:42	
EPA 8260	o-Xylene	81.9	ug/L	5.0	06/29/13 20:42	
4080362009	**TW-2**					
EPA 8260	cis-1,2-Dichloroethene	2.2	ug/L	1.0	06/29/13 19:34	

REPORT OF LABORATORY ANALYSIS

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(920)469-2436

HITS ONLY

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
4080362009	**TW-2**					
EPA 8260	Trichloroethene	0.62J	ug/L	1.0	06/29/13 19:34	
EPA 8260	Trichlorofluoromethane	1.2	ug/L	1.0	06/29/13 19:34	
4080362011	**TW-5**					
EPA 8260	Benzene	12.9	ug/L	1.0	06/29/13 20:20	
EPA 8260	sec-Butylbenzene	1.9J	ug/L	5.0	06/29/13 20:20	
EPA 8260	Chloromethane	0.44J	ug/L	1.0	06/29/13 20:20	
EPA 8260	Ethylbenzene	29.7	ug/L	1.0	06/29/13 20:20	
EPA 8260	Isopropylbenzene (Cumene)	4.0	ug/L	1.0	06/29/13 20:20	
EPA 8260	p-Isopropyltoluene	1.1	ug/L	1.0	06/29/13 20:20	
EPA 8260	Naphthalene	60.0	ug/L	5.0	06/29/13 20:20	
EPA 8260	n-Propylbenzene	14.9	ug/L	1.0	06/29/13 20:20	
EPA 8260	Toluene	2.6	ug/L	1.0	06/29/13 20:20	
EPA 8260	1,2,4-Trimethylbenzene	179	ug/L	5.0	06/29/13 20:20	
EPA 8260	1,3,5-Trimethylbenzene	51.5	ug/L	5.0	06/29/13 20:20	
EPA 8260	m&p-Xylene	167	ug/L	2.0	06/29/13 20:20	
EPA 8260	o-Xylene	58.8	ug/L	1.0	06/29/13 20:20	
4080362013	**TW-7**					
EPA 6010	Lead, Dissolved	1.5J	ug/L	7.5	07/02/13 14:29	
4080362014	**GP-7 (12.5-15')**					
EPA 6010	Lead	1.9	mg/kg	1.1	07/02/13 13:15	
ASTM D2974-87	Percent Moisture	11.1	%	0.10	07/01/13 16:28	
4080362015	**TW-4**					
EPA 6010	Arsenic, Dissolved	9.3J	ug/L	20.0	07/11/13 11:51	P4
EPA 6010	Barium, Dissolved	210	ug/L	5.0	07/11/13 11:51	
EPA 6010	Chromium, Dissolved	3.0J	ug/L	5.0	07/11/13 11:51	
EPA 6010	Lead, Dissolved	3.2J	ug/L	7.5	07/11/13 11:51	
EPA 6010	Silver, Dissolved	2.2J	ug/L	10.0	07/11/13 11:51	
EPA 7470	Mercury, Dissolved	1.8	ug/L	0.20	07/15/13 15:25	P4
4080362016	**GP-1 (18-20')**					
EPA 8260	1,2,4-Trimethylbenzene	39.2	ug/kg	33.6	07/02/13 03:29	
EPA 8260	Ethylbenzene	18.1J	ug/kg	33.6	07/02/13 03:29	
ASTM D2974-87	Percent Moisture	11.6	%	0.10	07/01/13 17:25	

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PROJECT NARRATIVE

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Method: **EPA 8082**
Description: 8082 GCS PCB
Client: TRC - MADISON
Date: July 15, 2013

General Information:
1 sample was analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3541 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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PROJECT NARRATIVE

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Method: **EPA 6010**
Description: 6010 MET ICP
Client: TRC - MADISON
Date: July 15, 2013

General Information:
4 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
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PROJECT NARRATIVE

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: TRC - MADISON
Date: July 15, 2013

General Information:
3 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

P4: Sample field preservation does not meet EPA or method recommendations for this analysis.
- TW-4 (Lab ID: 4080362015)

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
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PROJECT NARRATIVE

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Method: **EPA 7470**
Description: 7470 Mercury, Dissolved
Client: TRC - MADISON
Date: July 15, 2013

General Information:
1 sample was analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

P4: Sample field preservation does not meet EPA or method recommendations for this analysis.
- TW-4 (Lab ID: 4080362015)

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: MERP/3742

2q: Filter Blank for sample 4080362015.
- BLANK (Lab ID: 823143)
  - Mercury, Dissolved

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PROJECT NARRATIVE

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Method: **EPA 7471**
Description: 7471 Mercury
Client: TRC - MADISON
Date: July 15, 2013

General Information:
1 sample was analyzed for EPA 7471. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7471 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
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PROJECT NARRATIVE

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Method: **EPA 8270**
Description: 8270 MSSV FULL LIST MICROWAVE
Client: TRC - MADISON
Date: July 15, 2013

General Information:
1 sample was analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: OEXT/18842

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 816804)
  - Dibenz(a,h)anthracene

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Method: **EPA 8260**
Description: 8260 MSV Med Level Normal List
Client: TRC - MADISON
Date: July 15, 2013

General Information:
9 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: MSV/20306

1q: Due to excessive soil weight, sample could not be brought to 1:1 MeOH ratio.
- GP-1 (18-20') (Lab ID: 4080362016)
  - Dibromofluoromethane (S)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Method: **EPA 8260**
Description: 8260 MSV
Client: TRC - MADISON
Date: July 15, 2013

General Information:
8 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: GP-1 (5-7') **Lab ID: 4080362001** Collected: 06/26/13 14:35 Received: 06/28/13 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	96-18-4	W
1,2,4-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	95-63-6	W
1,2-Dibromo-3-chloropropane	**<49.8**	ug/kg	250	49.8	1	07/01/13 14:12	07/02/13 00:27	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	75-25-2	W
Bromomethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	108-90-7	W
Chloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	75-00-3	W
Chloroform	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	75-09-2	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: GP-1 (5-7') **Lab ID: 4080362001** Collected: 06/26/13 14:35 Received: 06/28/13 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	75-01-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	07/01/13 14:12	07/02/13 00:27	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:27	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	94	%	57-130		1	07/01/13 14:12	07/02/13 00:27	1868-53-7	
Toluene-d8 (S)	94	%	54-133		1	07/01/13 14:12	07/02/13 00:27	2037-26-5	
4-Bromofluorobenzene (S)	92	%	49-130		1	07/01/13 14:12	07/02/13 00:27	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.7**	%	0.10	0.10	1		07/01/13 17:05		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: GP-2 (8-10') **Lab ID: 4080362002** Collected: 06/26/13 14:25 Received: 06/28/13 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	96-18-4	W
1,2,4-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	95-63-6	W
1,2-Dibromo-3-chloropropane	**<49.8**	ug/kg	250	49.8	1	07/01/13 14:12	07/02/13 00:49	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	75-25-2	W
Bromomethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	108-90-7	W
Chloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	75-00-3	W
Chloroform	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	75-09-2	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: GP-2 (8-10') **Lab ID: 4080362002** Collected: 06/26/13 14:25 Received: 06/28/13 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	75-01-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	07/01/13 14:12	07/02/13 00:49	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 00:49	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	90	%	57-130		1	07/01/13 14:12	07/02/13 00:49	1868-53-7	
Toluene-d8 (S)	92	%	54-133		1	07/01/13 14:12	07/02/13 00:49	2037-26-5	
4-Bromofluorobenzene (S)	88	%	49-130		1	07/01/13 14:12	07/02/13 00:49	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.5**	%	0.10	0.10	1		07/01/13 17:05		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: GP-4 (1.5-5') **Lab ID: 4080362003** Collected: 06/26/13 13:50 Received: 06/28/13 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<26.3**	ug/kg	52.7	26.3	1	07/01/13 12:00	07/01/13 17:33	12674-11-2	
PCB-1221 (Aroclor 1221)	**<26.3**	ug/kg	52.7	26.3	1	07/01/13 12:00	07/01/13 17:33	11104-28-2	
PCB-1232 (Aroclor 1232)	**<26.3**	ug/kg	52.7	26.3	1	07/01/13 12:00	07/01/13 17:33	11141-16-5	
PCB-1242 (Aroclor 1242)	**<26.3**	ug/kg	52.7	26.3	1	07/01/13 12:00	07/01/13 17:33	53469-21-9	
PCB-1248 (Aroclor 1248)	**<26.3**	ug/kg	52.7	26.3	1	07/01/13 12:00	07/01/13 17:33	12672-29-6	
PCB-1254 (Aroclor 1254)	**<26.3**	ug/kg	52.7	26.3	1	07/01/13 12:00	07/01/13 17:33	11097-69-1	
PCB-1260 (Aroclor 1260)	**<26.3**	ug/kg	52.7	26.3	1	07/01/13 12:00	07/01/13 17:33	11096-82-5	
PCB, Total	**<26.3**	ug/kg	52.7	26.3	1	07/01/13 12:00	07/01/13 17:33	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	40-130		1	07/01/13 12:00	07/01/13 17:33	877-09-8	
Decachlorobiphenyl (S)	86	%	48-130		1	07/01/13 12:00	07/01/13 17:33	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**1.4J**	mg/kg	1.8	0.48	1	07/01/13 13:05	07/02/13 13:09	7440-38-2	
Barium	**28.2**	mg/kg	0.45	0.077	1	07/01/13 13:05	07/02/13 13:09	7440-39-3	
Cadmium	**0.17J**	mg/kg	0.45	0.045	1	07/01/13 13:05	07/02/13 13:09	7440-43-9	
Chromium	**4.4**	mg/kg	0.45	0.11	1	07/01/13 13:05	07/02/13 13:09	7440-47-3	
Lead	**1.8**	mg/kg	0.89	0.26	1	07/01/13 13:05	07/02/13 13:09	7439-92-1	
Selenium	**<0.53**	mg/kg	1.8	0.53	1	07/01/13 13:05	07/02/13 13:09	7782-49-2	
Silver	**<0.19**	mg/kg	0.89	0.19	1	07/01/13 13:05	07/02/13 13:09	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**<0.0033**	mg/kg	0.0067	0.0033	1	07/01/13 14:47	07/02/13 12:14	7439-97-6	
8270 MSSV FULL LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546								
1,2,4-Trichlorobenzene	**<9.7**	ug/kg	176	9.7	1	07/02/13 08:19	07/02/13 14:51	120-82-1	
1,2-Dichlorobenzene	**<20.1**	ug/kg	176	20.1	1	07/02/13 08:19	07/02/13 14:51	95-50-1	
1,3-Dichlorobenzene	**<20.6**	ug/kg	176	20.6	1	07/02/13 08:19	07/02/13 14:51	541-73-1	
1,4-Dichlorobenzene	**<22.6**	ug/kg	176	22.6	1	07/02/13 08:19	07/02/13 14:51	106-46-7	
2,2'-Oxybis(1-chloropropane)	**<22.5**	ug/kg	176	22.5	1	07/02/13 08:19	07/02/13 14:51	108-60-1	
2,4,5-Trichlorophenol	**<11.6**	ug/kg	176	11.6	1	07/02/13 08:19	07/02/13 14:51	95-95-4	
2,4,6-Trichlorophenol	**<19.4**	ug/kg	176	19.4	1	07/02/13 08:19	07/02/13 14:51	88-06-2	
2,4-Dichlorophenol	**<15.0**	ug/kg	176	15.0	1	07/02/13 08:19	07/02/13 14:51	120-83-2	
2,4-Dimethylphenol	**<87.8**	ug/kg	176	87.8	1	07/02/13 08:19	07/02/13 14:51	105-67-9	
2,4-Dinitrophenol	**<129**	ug/kg	702	129	1	07/02/13 08:19	07/02/13 14:51	51-28-5	
2,4-Dinitrotoluene	**<13.8**	ug/kg	176	13.8	1	07/02/13 08:19	07/02/13 14:51	121-14-2	
2,6-Dinitrotoluene	**<20.3**	ug/kg	176	20.3	1	07/02/13 08:19	07/02/13 14:51	606-20-2	
2-Chloronaphthalene	**<18.3**	ug/kg	176	18.3	1	07/02/13 08:19	07/02/13 14:51	91-58-7	
2-Chlorophenol	**<87.8**	ug/kg	176	87.8	1	07/02/13 08:19	07/02/13 14:51	95-57-8	
2-Methylnaphthalene	**<19.4**	ug/kg	176	19.4	1	07/02/13 08:19	07/02/13 14:51	91-57-6	
2-Methylphenol(o-Cresol)	**<87.8**	ug/kg	176	87.8	1	07/02/13 08:19	07/02/13 14:51	95-48-7	
2-Nitroaniline	**<12.7**	ug/kg	176	12.7	1	07/02/13 08:19	07/02/13 14:51	88-74-4	
2-Nitrophenol	**<21.0**	ug/kg	176	21.0	1	07/02/13 08:19	07/02/13 14:51	88-75-5	
3&4-Methylphenol(m&p Cresol)	**<18.3**	ug/kg	176	18.3	1	07/02/13 08:19	07/02/13 14:51		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: GP-4 (1.5-5') **Lab ID: 4080362003** Collected: 06/26/13 13:50 Received: 06/28/13 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV FULL LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546								
3,3'-Dichlorobenzidine	**<12.7**	ug/kg	176	12.7	1	07/02/13 08:19	07/02/13 14:51	91-94-1	
3-Nitroaniline	**<13.9**	ug/kg	176	13.9	1	07/02/13 08:19	07/02/13 14:51	99-09-2	
4,6-Dinitro-2-methylphenol	**<87.8**	ug/kg	176	87.8	1	07/02/13 08:19	07/02/13 14:51	534-52-1	
4-Bromophenylphenyl ether	**<18.6**	ug/kg	176	18.6	1	07/02/13 08:19	07/02/13 14:51	101-55-3	
4-Chloro-3-methylphenol	**<17.9**	ug/kg	176	17.9	1	07/02/13 08:19	07/02/13 14:51	59-50-7	
4-Chloroaniline	**<87.8**	ug/kg	351	87.8	1	07/02/13 08:19	07/02/13 14:51	106-47-8	
4-Chlorophenylphenyl ether	**<87.8**	ug/kg	176	87.8	1	07/02/13 08:19	07/02/13 14:51	7005-72-3	
4-Nitroaniline	**<87.8**	ug/kg	176	87.8	1	07/02/13 08:19	07/02/13 14:51	100-01-6	
4-Nitrophenol	**<34.6**	ug/kg	176	34.6	1	07/02/13 08:19	07/02/13 14:51	100-02-7	
Acenaphthene	**<87.8**	ug/kg	176	87.8	1	07/02/13 08:19	07/02/13 14:51	83-32-9	
Acenaphthylene	**<18.8**	ug/kg	176	18.8	1	07/02/13 08:19	07/02/13 14:51	208-96-8	
Anthracene	**<87.8**	ug/kg	176	87.8	1	07/02/13 08:19	07/02/13 14:51	120-12-7	
Benzo(a)anthracene	**<19.8**	ug/kg	176	19.8	1	07/02/13 08:19	07/02/13 14:51	56-55-3	
Benzo(a)pyrene	**<21.3**	ug/kg	176	21.3	1	07/02/13 08:19	07/02/13 14:51	50-32-8	
Benzo(b)fluoranthene	**<20.7**	ug/kg	176	20.7	1	07/02/13 08:19	07/02/13 14:51	205-99-2	
Benzo(g,h,i)perylene	**<87.8**	ug/kg	176	87.8	1	07/02/13 08:19	07/02/13 14:51	191-24-2	
Benzo(k)fluoranthene	**<27.7**	ug/kg	176	27.7	1	07/02/13 08:19	07/02/13 14:51	207-08-9	
Butylbenzylphthalate	**<39.5**	ug/kg	176	39.5	1	07/02/13 08:19	07/02/13 14:51	85-68-7	
Carbazole	**<18.1**	ug/kg	176	18.1	1	07/02/13 08:19	07/02/13 14:51	86-74-8	
Chrysene	**<25.6**	ug/kg	176	25.6	1	07/02/13 08:19	07/02/13 14:51	218-01-9	
Di-n-butylphthalate	**<29.4**	ug/kg	176	29.4	1	07/02/13 08:19	07/02/13 14:51	84-74-2	
Di-n-octylphthalate	**<19.2**	ug/kg	176	19.2	1	07/02/13 08:19	07/02/13 14:51	117-84-0	
Dibenz(a,h)anthracene	**<32.2**	ug/kg	176	32.2	1	07/02/13 08:19	07/02/13 14:51	53-70-3	L2
Dibenzofuran	**<87.8**	ug/kg	176	87.8	1	07/02/13 08:19	07/02/13 14:51	132-64-9	
Diethylphthalate	**<87.8**	ug/kg	176	87.8	1	07/02/13 08:19	07/02/13 14:51	84-66-2	
Dimethylphthalate	**<18.4**	ug/kg	176	18.4	1	07/02/13 08:19	07/02/13 14:51	131-11-3	
Fluoranthene	**<31.1**	ug/kg	176	31.1	1	07/02/13 08:19	07/02/13 14:51	206-44-0	
Fluorene	**<8.8**	ug/kg	176	8.8	1	07/02/13 08:19	07/02/13 14:51	86-73-7	
Hexachloro-1,3-butadiene	**<22.6**	ug/kg	176	22.6	1	07/02/13 08:19	07/02/13 14:51	87-68-3	
Hexachlorobenzene	**<10.3**	ug/kg	176	10.3	1	07/02/13 08:19	07/02/13 14:51	118-74-1	
Hexachlorocyclopentadiene	**<87.8**	ug/kg	176	87.8	1	07/02/13 08:19	07/02/13 14:51	77-47-4	
Hexachloroethane	**<22.2**	ug/kg	176	22.2	1	07/02/13 08:19	07/02/13 14:51	67-72-1	
Indeno(1,2,3-cd)pyrene	**<23.5**	ug/kg	176	23.5	1	07/02/13 08:19	07/02/13 14:51	193-39-5	
Isophorone	**<87.8**	ug/kg	176	87.8	1	07/02/13 08:19	07/02/13 14:51	78-59-1	
N-Nitroso-di-n-propylamine	**<20.8**	ug/kg	176	20.8	1	07/02/13 08:19	07/02/13 14:51	621-64-7	
N-Nitrosodiphenylamine	**<24.1**	ug/kg	176	24.1	1	07/02/13 08:19	07/02/13 14:51	86-30-6	
Naphthalene	**<20.5**	ug/kg	176	20.5	1	07/02/13 08:19	07/02/13 14:51	91-20-3	
Nitrobenzene	**<20.2**	ug/kg	176	20.2	1	07/02/13 08:19	07/02/13 14:51	98-95-3	
Pentachlorophenol	**<87.8**	ug/kg	348	87.8	1	07/02/13 08:19	07/02/13 14:51	87-86-5	
Phenanthrene	**<87.8**	ug/kg	176	87.8	1	07/02/13 08:19	07/02/13 14:51	85-01-8	
Phenol	**<20.9**	ug/kg	176	20.9	1	07/02/13 08:19	07/02/13 14:51	108-95-2	
Pyrene	**<42.7**	ug/kg	176	42.7	1	07/02/13 08:19	07/02/13 14:51	129-00-0	
bis(2-Chloroethoxy)methane	**<21.2**	ug/kg	176	21.2	1	07/02/13 08:19	07/02/13 14:51	111-91-1	
bis(2-Chloroethyl) ether	**<87.8**	ug/kg	176	87.8	1	07/02/13 08:19	07/02/13 14:51	111-44-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: GP-4 (1.5-5') **Lab ID: 4080362003** Collected: 06/26/13 13:50 Received: 06/28/13 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV FULL LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546								
bis(2-Ethylhexyl)phthalate	**<35.9**	ug/kg	176	35.9	1	07/02/13 08:19	07/02/13 14:51	117-81-7	
Surrogates									
Nitrobenzene-d5 (S)	81	%	40-130		1	07/02/13 08:19	07/02/13 14:51	4165-60-0	
2-Fluorobiphenyl (S)	81	%	53-130		1	07/02/13 08:19	07/02/13 14:51	321-60-8	
Terphenyl-d14 (S)	103	%	36-162		1	07/02/13 08:19	07/02/13 14:51	1718-51-0	
Phenol-d6 (S)	79	%	30-130		1	07/02/13 08:19	07/02/13 14:51	13127-88-3	
2-Fluorophenol (S)	77	%	28-130		1	07/02/13 08:19	07/02/13 14:51	367-12-4	
2,4,6-Tribromophenol (S)	97	%	18-130		1	07/02/13 08:19	07/02/13 14:51	118-79-6	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	75-25-2	W
Bromomethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	108-90-7	W
Chloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	75-00-3	W
Chloroform	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	106-43-4	W
1,2-Dibromo-3-chloropropane	**<49.8**	ug/kg	250	49.8	1	07/01/13 14:12	07/02/13 01:12	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	10061-01-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: GP-4 (1.5-5') **Lab ID: 4080362003** Collected: 06/26/13 13:50 Received: 06/28/13 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	87-61-6	W
1,2,4-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	07/01/13 14:12	07/02/13 01:12	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:12	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	107	%	57-130		1	07/01/13 14:12	07/02/13 01:12	1868-53-7	
Toluene-d8 (S)	108	%	54-133		1	07/01/13 14:12	07/02/13 01:12	2037-26-5	
4-Bromofluorobenzene (S)	105	%	49-130		1	07/01/13 14:12	07/02/13 01:12	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**5.0**	%	0.10	0.10	1		07/01/13 17:05		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: GP-5 (3.5-5') **Lab ID: 4080362004** Collected: 06/26/13 14:05 Received: 06/28/13 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	96-18-4	W
1,2,4-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	95-63-6	W
1,2-Dibromo-3-chloropropane	**<49.8**	ug/kg	250	49.8	1	07/01/13 14:12	07/02/13 01:35	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	75-25-2	W
Bromomethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	108-90-7	W
Chloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	75-00-3	W
Chloroform	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	75-09-2	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: GP-5 (3.5-5') **Lab ID: 4080362004** Collected: 06/26/13 14:05 Received: 06/28/13 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	75-01-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	07/01/13 14:12	07/02/13 01:35	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:35	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	96	%	57-130		1	07/01/13 14:12	07/02/13 01:35	1868-53-7	
Toluene-d8 (S)	100	%	54-133		1	07/01/13 14:12	07/02/13 01:35	2037-26-5	
4-Bromofluorobenzene (S)	95	%	49-130		1	07/01/13 14:12	07/02/13 01:35	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**2.1**	%	0.10	0.10	1		07/01/13 17:05		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: GP-5 (17-19') **Lab ID: 4080362005** Collected: 06/26/13 14:15 Received: 06/28/13 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	96-18-4	W
1,2,4-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	120-82-1	W
1,2,4-Trimethylbenzene	**334**	ug/kg	68.6	28.6	1	07/01/13 14:12	07/02/13 01:58	95-63-6	
1,2-Dibromo-3-chloropropane	**<49.8**	ug/kg	250	49.8	1	07/01/13 14:12	07/02/13 01:58	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	78-87-5	W
1,3,5-Trimethylbenzene	**86.4**	ug/kg	68.6	28.6	1	07/01/13 14:12	07/02/13 01:58	108-67-8	
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	75-25-2	W
Bromomethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	108-90-7	W
Chloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	75-00-3	W
Chloroform	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	108-20-3	W
Ethylbenzene	**150**	ug/kg	68.6	28.6	1	07/01/13 14:12	07/02/13 01:58	100-41-4	
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	75-09-2	W
Naphthalene	**123**	ug/kg	68.6	28.6	1	07/01/13 14:12	07/02/13 01:58	91-20-3	
Styrene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: GP-5 (17-19') **Lab ID: 4080362005** Collected: 06/26/13 14:15 Received: 06/28/13 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	75-01-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	10061-01-5	W
m&p-Xylene	**511**	ug/kg	137	57.2	1	07/01/13 14:12	07/02/13 01:58	179601-23-1	
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	104-51-8	W
n-Propylbenzene	**31.6J**	ug/kg	68.6	28.6	1	07/01/13 14:12	07/02/13 01:58	103-65-1	
o-Xylene	**85.6**	ug/kg	68.6	28.6	1	07/01/13 14:12	07/02/13 01:58	95-47-6	
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 01:58	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	94	%	57-130		1	07/01/13 14:12	07/02/13 01:58	1868-53-7	
Toluene-d8 (S)	96	%	54-133		1	07/01/13 14:12	07/02/13 01:58	2037-26-5	
4-Bromofluorobenzene (S)	92	%	49-130		1	07/01/13 14:12	07/02/13 01:58	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.5**	%	0.10	0.10	1		07/01/13 17:25		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: GP-6 (7.5-10') **Lab ID: 4080362006** Collected: 06/26/13 11:50 Received: 06/28/13 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**1.5**	mg/kg	0.95	0.28	1	07/01/13 13:05	07/02/13 13:11	7439-92-1	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	96-18-4	W
1,2,4-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	95-63-6	W
1,2-Dibromo-3-chloropropane	**<49.8**	ug/kg	250	49.8	1	07/01/13 14:12	07/02/13 02:20	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	75-25-2	W
Bromomethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	108-90-7	W
Chloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	75-00-3	W
Chloroform	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	1634-04-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: GP-6 (7.5-10') **Lab ID: 4080362006** Collected: 06/26/13 11:50 Received: 06/28/13 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	75-09-2	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	75-01-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	07/01/13 14:12	07/02/13 02:20	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:20	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	94	%	57-130		1	07/01/13 14:12	07/02/13 02:20	1868-53-7	
Toluene-d8 (S)	97	%	54-133		1	07/01/13 14:12	07/02/13 02:20	2037-26-5	
4-Bromofluorobenzene (S)	91	%	49-130		1	07/01/13 14:12	07/02/13 02:20	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**2.9**	%	0.10	0.10	1		07/01/13 17:25		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: GP-7 (0.5-3') **Lab ID: 4080362007** Collected: 06/26/13 12:10 Received: 06/28/13 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010		Preparation Method: EPA 3050						
Lead	**17.5**	mg/kg	0.99	0.29	1	07/01/13 13:05	07/02/13 13:13	7439-92-1	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260		Preparation Method: EPA 5035/5030B						
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	96-18-4	W
1,2,4-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	95-63-6	W
1,2-Dibromo-3-chloropropane	**<49.8**	ug/kg	250	49.8	1	07/01/13 14:12	07/02/13 02:43	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	75-25-2	W
Bromomethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	108-90-7	W
Chloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	75-00-3	W
Chloroform	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	1634-04-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: GP-7 (0.5-3') **Lab ID: 4080362007** Collected: 06/26/13 12:10 Received: 06/28/13 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	75-09-2	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	75-01-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	07/01/13 14:12	07/02/13 02:43	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 02:43	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	93	%	57-130		1	07/01/13 14:12	07/02/13 02:43	1868-53-7	
Toluene-d8 (S)	101	%	54-133		1	07/01/13 14:12	07/02/13 02:43	2037-26-5	
4-Bromofluorobenzene (S)	94	%	49-130		1	07/01/13 14:12	07/02/13 02:43	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**5.7**	%	0.10	0.10	1		07/01/13 17:25		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: TW-1 **Lab ID: 4080362008** Collected: 06/26/13 15:20 Received: 06/28/13 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<2.5**	ug/L	5.0	2.5	5		06/29/13 20:42	71-43-2	
Bromobenzene	**<2.4**	ug/L	5.0	2.4	5		06/29/13 20:42	108-86-1	
Bromochloromethane	**<2.5**	ug/L	5.0	2.5	5		06/29/13 20:42	74-97-5	
Bromodichloromethane	**<2.3**	ug/L	5.0	2.3	5		06/29/13 20:42	75-27-4	
Bromoform	**<1.2**	ug/L	5.0	1.2	5		06/29/13 20:42	75-25-2	
Bromomethane	**<2.1**	ug/L	25.0	2.1	5		06/29/13 20:42	74-83-9	
n-Butylbenzene	**22.1**	ug/L	5.0	2.0	5		06/29/13 20:42	104-51-8	
sec-Butylbenzene	**7.2J**	ug/L	25.0	3.0	5		06/29/13 20:42	135-98-8	
tert-Butylbenzene	**<2.1**	ug/L	5.0	2.1	5		06/29/13 20:42	98-06-6	
Carbon tetrachloride	**<1.8**	ug/L	5.0	1.8	5		06/29/13 20:42	56-23-5	
Chlorobenzene	**<1.8**	ug/L	5.0	1.8	5		06/29/13 20:42	108-90-7	
Chloroethane	**<2.2**	ug/L	5.0	2.2	5		06/29/13 20:42	75-00-3	
Chloroform	**<3.4**	ug/L	25.0	3.4	5		06/29/13 20:42	67-66-3	
Chloromethane	**<1.9**	ug/L	5.0	1.9	5		06/29/13 20:42	74-87-3	
2-Chlorotoluene	**<2.4**	ug/L	5.0	2.4	5		06/29/13 20:42	95-49-8	
4-Chlorotoluene	**<2.4**	ug/L	5.0	2.4	5		06/29/13 20:42	106-43-4	
1,2-Dibromo-3-chloropropane	**<7.5**	ug/L	25.0	7.5	5		06/29/13 20:42	96-12-8	
Dibromochloromethane	**<9.5**	ug/L	25.0	9.5	5		06/29/13 20:42	124-48-1	
1,2-Dibromoethane (EDB)	**<1.9**	ug/L	5.0	1.9	5		06/29/13 20:42	106-93-4	
Dibromomethane	**<2.4**	ug/L	5.0	2.4	5		06/29/13 20:42	74-95-3	
1,2-Dichlorobenzene	**<2.2**	ug/L	5.0	2.2	5		06/29/13 20:42	95-50-1	
1,3-Dichlorobenzene	**<2.3**	ug/L	5.0	2.3	5		06/29/13 20:42	541-73-1	
1,4-Dichlorobenzene	**<2.2**	ug/L	5.0	2.2	5		06/29/13 20:42	106-46-7	
Dichlorodifluoromethane	**<2.0**	ug/L	5.0	2.0	5		06/29/13 20:42	75-71-8	
1,1-Dichloroethane	**<1.4**	ug/L	5.0	1.4	5		06/29/13 20:42	75-34-3	
1,2-Dichloroethane	**<2.4**	ug/L	5.0	2.4	5		06/29/13 20:42	107-06-2	
1,1-Dichloroethene	**<2.1**	ug/L	5.0	2.1	5		06/29/13 20:42	75-35-4	
cis-1,2-Dichloroethene	**<2.1**	ug/L	5.0	2.1	5		06/29/13 20:42	156-59-2	
trans-1,2-Dichloroethene	**<1.9**	ug/L	5.0	1.9	5		06/29/13 20:42	156-60-5	
1,2-Dichloropropane	**<2.5**	ug/L	5.0	2.5	5		06/29/13 20:42	78-87-5	
1,3-Dichloropropane	**<2.3**	ug/L	5.0	2.3	5		06/29/13 20:42	142-28-9	
2,2-Dichloropropane	**<1.8**	ug/L	5.0	1.8	5		06/29/13 20:42	594-20-7	
1,1-Dichloropropene	**<2.5**	ug/L	5.0	2.5	5		06/29/13 20:42	563-58-6	
cis-1,3-Dichloropropene	**<1.5**	ug/L	5.0	1.5	5		06/29/13 20:42	10061-01-5	
trans-1,3-Dichloropropene	**<1.3**	ug/L	5.0	1.3	5		06/29/13 20:42	10061-02-6	
Diisopropyl ether	**<2.5**	ug/L	5.0	2.5	5		06/29/13 20:42	108-20-3	
Ethylbenzene	**499**	ug/L	5.0	2.5	5		06/29/13 20:42	100-41-4	
Hexachloro-1,3-butadiene	**<6.3**	ug/L	25.0	6.3	5		06/29/13 20:42	87-68-3	
Isopropylbenzene (Cumene)	**36.6**	ug/L	5.0	1.7	5		06/29/13 20:42	98-82-8	
p-Isopropyltoluene	**5.0J**	ug/L	5.0	2.0	5		06/29/13 20:42	99-87-6	
Methylene Chloride	**<1.8**	ug/L	5.0	1.8	5		06/29/13 20:42	75-09-2	
Methyl-tert-butyl ether	**<2.5**	ug/L	5.0	2.5	5		06/29/13 20:42	1634-04-4	
Naphthalene	**108**	ug/L	25.0	12.5	5		06/29/13 20:42	91-20-3	
n-Propylbenzene	**129**	ug/L	5.0	2.5	5		06/29/13 20:42	103-65-1	
Styrene	**<1.7**	ug/L	5.0	1.7	5		06/29/13 20:42	100-42-5	
1,1,1,2-Tetrachloroethane	**<2.3**	ug/L	5.0	2.3	5		06/29/13 20:42	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: TW-1 **Lab ID: 4080362008** Collected: 06/26/13 15:20 Received: 06/28/13 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<1.9**	ug/L	5.0	1.9	5		06/29/13 20:42	79-34-5	
Tetrachloroethene	**<2.4**	ug/L	5.0	2.4	5		06/29/13 20:42	127-18-4	
Toluene	**15.7**	ug/L	5.0	2.2	5		06/29/13 20:42	108-88-3	
1,2,3-Trichlorobenzene	**<3.8**	ug/L	25.0	3.8	5		06/29/13 20:42	87-61-6	
1,2,4-Trichlorobenzene	**<12.5**	ug/L	25.0	12.5	5		06/29/13 20:42	120-82-1	
1,1,1-Trichloroethane	**<2.2**	ug/L	5.0	2.2	5		06/29/13 20:42	71-55-6	
1,1,2-Trichloroethane	**<1.9**	ug/L	5.0	1.9	5		06/29/13 20:42	79-00-5	
Trichloroethene	**<2.1**	ug/L	5.0	2.1	5		06/29/13 20:42	79-01-6	
Trichlorofluoromethane	**<2.4**	ug/L	5.0	2.4	5		06/29/13 20:42	75-69-4	
1,2,3-Trichloropropane	**<2.3**	ug/L	5.0	2.3	5		06/29/13 20:42	96-18-4	
1,2,4-Trimethylbenzene	**924**	ug/L	25.0	2.9	5		06/29/13 20:42	95-63-6	
1,3,5-Trimethylbenzene	**33.0**	ug/L	25.0	12.5	5		06/29/13 20:42	108-67-8	
Vinyl chloride	**<0.92**	ug/L	5.0	0.92	5		06/29/13 20:42	75-01-4	
m&p-Xylene	**632**	ug/L	10.0	4.1	5		06/29/13 20:42	179601-23-1	
o-Xylene	**81.9**	ug/L	5.0	2.5	5		06/29/13 20:42	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	43-137		5		06/29/13 20:42	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		5		06/29/13 20:42	1868-53-7	
Toluene-d8 (S)	100	%	55-137		5		06/29/13 20:42	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: TW-2 **Lab ID: 4080362009** Collected: 06/26/13 19:00 Received: 06/28/13 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		06/29/13 19:34	71-43-2	
Bromobenzene	**<0.48**	ug/L	1.0	0.48	1		06/29/13 19:34	108-86-1	
Bromochloromethane	**<0.49**	ug/L	1.0	0.49	1		06/29/13 19:34	74-97-5	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		06/29/13 19:34	75-27-4	
Bromoform	**<0.23**	ug/L	1.0	0.23	1		06/29/13 19:34	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		06/29/13 19:34	74-83-9	
n-Butylbenzene	**<0.40**	ug/L	1.0	0.40	1		06/29/13 19:34	104-51-8	
sec-Butylbenzene	**<0.60**	ug/L	5.0	0.60	1		06/29/13 19:34	135-98-8	
tert-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/29/13 19:34	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		06/29/13 19:34	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		06/29/13 19:34	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		06/29/13 19:34	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		06/29/13 19:34	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		06/29/13 19:34	74-87-3	
2-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		06/29/13 19:34	95-49-8	
4-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		06/29/13 19:34	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		06/29/13 19:34	96-12-8	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		06/29/13 19:34	124-48-1	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		06/29/13 19:34	106-93-4	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		06/29/13 19:34	74-95-3	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		06/29/13 19:34	95-50-1	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		06/29/13 19:34	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		06/29/13 19:34	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		06/29/13 19:34	75-71-8	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		06/29/13 19:34	75-34-3	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		06/29/13 19:34	107-06-2	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		06/29/13 19:34	75-35-4	
cis-1,2-Dichloroethene	**2.2**	ug/L	1.0	0.42	1		06/29/13 19:34	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		06/29/13 19:34	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		06/29/13 19:34	78-87-5	
1,3-Dichloropropane	**<0.46**	ug/L	1.0	0.46	1		06/29/13 19:34	142-28-9	
2,2-Dichloropropane	**<0.37**	ug/L	1.0	0.37	1		06/29/13 19:34	594-20-7	
1,1-Dichloropropene	**<0.51**	ug/L	1.0	0.51	1		06/29/13 19:34	563-58-6	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		06/29/13 19:34	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		06/29/13 19:34	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		06/29/13 19:34	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/29/13 19:34	100-41-4	
Hexachloro-1,3-butadiene	**<1.3**	ug/L	5.0	1.3	1		06/29/13 19:34	87-68-3	
Isopropylbenzene (Cumene)	**<0.34**	ug/L	1.0	0.34	1		06/29/13 19:34	98-82-8	
p-Isopropyltoluene	**<0.40**	ug/L	1.0	0.40	1		06/29/13 19:34	99-87-6	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		06/29/13 19:34	75-09-2	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		06/29/13 19:34	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		06/29/13 19:34	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/29/13 19:34	103-65-1	
Styrene	**<0.35**	ug/L	1.0	0.35	1		06/29/13 19:34	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.45**	ug/L	1.0	0.45	1		06/29/13 19:34	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: TW-2 **Lab ID: 4080362009** Collected: 06/26/13 19:00 Received: 06/28/13 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		06/29/13 19:34	79-34-5	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		06/29/13 19:34	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		06/29/13 19:34	108-88-3	
1,2,3-Trichlorobenzene	**<0.77**	ug/L	5.0	0.77	1		06/29/13 19:34	87-61-6	
1,2,4-Trichlorobenzene	**<2.5**	ug/L	5.0	2.5	1		06/29/13 19:34	120-82-1	
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		06/29/13 19:34	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		06/29/13 19:34	79-00-5	
Trichloroethene	**0.62J**	ug/L	1.0	0.43	1		06/29/13 19:34	79-01-6	
Trichlorofluoromethane	**1.2**	ug/L	1.0	0.48	1		06/29/13 19:34	75-69-4	
1,2,3-Trichloropropane	**<0.47**	ug/L	1.0	0.47	1		06/29/13 19:34	96-18-4	
1,2,4-Trimethylbenzene	**<0.57**	ug/L	5.0	0.57	1		06/29/13 19:34	95-63-6	
1,3,5-Trimethylbenzene	**<2.5**	ug/L	5.0	2.5	1		06/29/13 19:34	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		06/29/13 19:34	75-01-4	
m&p-Xylene	**<0.82**	ug/L	2.0	0.82	1		06/29/13 19:34	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		06/29/13 19:34	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	43-137		1		06/29/13 19:34	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		06/29/13 19:34	1868-53-7	
Toluene-d8 (S)	101	%	55-137		1		06/29/13 19:34	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: TW-3 **Lab ID: 4080362010** Collected: 06/26/13 18:45 Received: 06/28/13 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		06/29/13 19:57	71-43-2	
Bromobenzene	**<0.48**	ug/L	1.0	0.48	1		06/29/13 19:57	108-86-1	
Bromochloromethane	**<0.49**	ug/L	1.0	0.49	1		06/29/13 19:57	74-97-5	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		06/29/13 19:57	75-27-4	
Bromoform	**<0.23**	ug/L	1.0	0.23	1		06/29/13 19:57	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		06/29/13 19:57	74-83-9	
n-Butylbenzene	**<0.40**	ug/L	1.0	0.40	1		06/29/13 19:57	104-51-8	
sec-Butylbenzene	**<0.60**	ug/L	5.0	0.60	1		06/29/13 19:57	135-98-8	
tert-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/29/13 19:57	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		06/29/13 19:57	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		06/29/13 19:57	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		06/29/13 19:57	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		06/29/13 19:57	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		06/29/13 19:57	74-87-3	
2-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		06/29/13 19:57	95-49-8	
4-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		06/29/13 19:57	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		06/29/13 19:57	96-12-8	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		06/29/13 19:57	124-48-1	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		06/29/13 19:57	106-93-4	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		06/29/13 19:57	74-95-3	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		06/29/13 19:57	95-50-1	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		06/29/13 19:57	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		06/29/13 19:57	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		06/29/13 19:57	75-71-8	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		06/29/13 19:57	75-34-3	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		06/29/13 19:57	107-06-2	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		06/29/13 19:57	75-35-4	
cis-1,2-Dichloroethene	**<0.42**	ug/L	1.0	0.42	1		06/29/13 19:57	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		06/29/13 19:57	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		06/29/13 19:57	78-87-5	
1,3-Dichloropropane	**<0.46**	ug/L	1.0	0.46	1		06/29/13 19:57	142-28-9	
2,2-Dichloropropane	**<0.37**	ug/L	1.0	0.37	1		06/29/13 19:57	594-20-7	
1,1-Dichloropropene	**<0.51**	ug/L	1.0	0.51	1		06/29/13 19:57	563-58-6	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		06/29/13 19:57	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		06/29/13 19:57	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		06/29/13 19:57	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/29/13 19:57	100-41-4	
Hexachloro-1,3-butadiene	**<1.3**	ug/L	5.0	1.3	1		06/29/13 19:57	87-68-3	
Isopropylbenzene (Cumene)	**<0.34**	ug/L	1.0	0.34	1		06/29/13 19:57	98-82-8	
p-Isopropyltoluene	**<0.40**	ug/L	1.0	0.40	1		06/29/13 19:57	99-87-6	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		06/29/13 19:57	75-09-2	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		06/29/13 19:57	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		06/29/13 19:57	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/29/13 19:57	103-65-1	
Styrene	**<0.35**	ug/L	1.0	0.35	1		06/29/13 19:57	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.45**	ug/L	1.0	0.45	1		06/29/13 19:57	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: TW-3 **Lab ID: 4080362010** Collected: 06/26/13 18:45 Received: 06/28/13 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		06/29/13 19:57	79-34-5	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		06/29/13 19:57	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		06/29/13 19:57	108-88-3	
1,2,3-Trichlorobenzene	**<0.77**	ug/L	5.0	0.77	1		06/29/13 19:57	87-61-6	
1,2,4-Trichlorobenzene	**<2.5**	ug/L	5.0	2.5	1		06/29/13 19:57	120-82-1	
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		06/29/13 19:57	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		06/29/13 19:57	79-00-5	
Trichloroethene	**<0.43**	ug/L	1.0	0.43	1		06/29/13 19:57	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		06/29/13 19:57	75-69-4	
1,2,3-Trichloropropane	**<0.47**	ug/L	1.0	0.47	1		06/29/13 19:57	96-18-4	
1,2,4-Trimethylbenzene	**<0.57**	ug/L	5.0	0.57	1		06/29/13 19:57	95-63-6	
1,3,5-Trimethylbenzene	**<2.5**	ug/L	5.0	2.5	1		06/29/13 19:57	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		06/29/13 19:57	75-01-4	
m&p-Xylene	**<0.82**	ug/L	2.0	0.82	1		06/29/13 19:57	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		06/29/13 19:57	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	43-137		1		06/29/13 19:57	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		06/29/13 19:57	1868-53-7	
Toluene-d8 (S)	101	%	55-137		1		06/29/13 19:57	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: TW-5 **Lab ID: 4080362011** Collected: 06/26/13 15:40 Received: 06/28/13 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**12.9**	ug/L	1.0	0.50	1		06/29/13 20:20	71-43-2	
Bromobenzene	**<0.48**	ug/L	1.0	0.48	1		06/29/13 20:20	108-86-1	
Bromochloromethane	**<0.49**	ug/L	1.0	0.49	1		06/29/13 20:20	74-97-5	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		06/29/13 20:20	75-27-4	
Bromoform	**<0.23**	ug/L	1.0	0.23	1		06/29/13 20:20	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		06/29/13 20:20	74-83-9	
n-Butylbenzene	**<0.40**	ug/L	1.0	0.40	1		06/29/13 20:20	104-51-8	
sec-Butylbenzene	**1.9J**	ug/L	5.0	0.60	1		06/29/13 20:20	135-98-8	
tert-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/29/13 20:20	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		06/29/13 20:20	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		06/29/13 20:20	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		06/29/13 20:20	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		06/29/13 20:20	67-66-3	
Chloromethane	**0.44J**	ug/L	1.0	0.39	1		06/29/13 20:20	74-87-3	
2-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		06/29/13 20:20	95-49-8	
4-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		06/29/13 20:20	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		06/29/13 20:20	96-12-8	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		06/29/13 20:20	124-48-1	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		06/29/13 20:20	106-93-4	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		06/29/13 20:20	74-95-3	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		06/29/13 20:20	95-50-1	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		06/29/13 20:20	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		06/29/13 20:20	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		06/29/13 20:20	75-71-8	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		06/29/13 20:20	75-34-3	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		06/29/13 20:20	107-06-2	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		06/29/13 20:20	75-35-4	
cis-1,2-Dichloroethene	**<0.42**	ug/L	1.0	0.42	1		06/29/13 20:20	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		06/29/13 20:20	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		06/29/13 20:20	78-87-5	
1,3-Dichloropropane	**<0.46**	ug/L	1.0	0.46	1		06/29/13 20:20	142-28-9	
2,2-Dichloropropane	**<0.37**	ug/L	1.0	0.37	1		06/29/13 20:20	594-20-7	
1,1-Dichloropropene	**<0.51**	ug/L	1.0	0.51	1		06/29/13 20:20	563-58-6	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		06/29/13 20:20	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		06/29/13 20:20	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		06/29/13 20:20	108-20-3	
Ethylbenzene	**29.7**	ug/L	1.0	0.50	1		06/29/13 20:20	100-41-4	
Hexachloro-1,3-butadiene	**<1.3**	ug/L	5.0	1.3	1		06/29/13 20:20	87-68-3	
Isopropylbenzene (Cumene)	**4.0**	ug/L	1.0	0.34	1		06/29/13 20:20	98-82-8	
p-Isopropyltoluene	**1.1**	ug/L	1.0	0.40	1		06/29/13 20:20	99-87-6	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		06/29/13 20:20	75-09-2	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		06/29/13 20:20	1634-04-4	
Naphthalene	**60.0**	ug/L	5.0	2.5	1		06/29/13 20:20	91-20-3	
n-Propylbenzene	**14.9**	ug/L	1.0	0.50	1		06/29/13 20:20	103-65-1	
Styrene	**<0.35**	ug/L	1.0	0.35	1		06/29/13 20:20	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.45**	ug/L	1.0	0.45	1		06/29/13 20:20	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: TW-5 **Lab ID: 4080362011** Collected: 06/26/13 15:40 Received: 06/28/13 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		06/29/13 20:20	79-34-5	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		06/29/13 20:20	127-18-4	
Toluene	**2.6**	ug/L	1.0	0.44	1		06/29/13 20:20	108-88-3	
1,2,3-Trichlorobenzene	**<0.77**	ug/L	5.0	0.77	1		06/29/13 20:20	87-61-6	
1,2,4-Trichlorobenzene	**<2.5**	ug/L	5.0	2.5	1		06/29/13 20:20	120-82-1	
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		06/29/13 20:20	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		06/29/13 20:20	79-00-5	
Trichloroethene	**<0.43**	ug/L	1.0	0.43	1		06/29/13 20:20	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		06/29/13 20:20	75-69-4	
1,2,3-Trichloropropane	**<0.47**	ug/L	1.0	0.47	1		06/29/13 20:20	96-18-4	
1,2,4-Trimethylbenzene	**179**	ug/L	5.0	0.57	1		06/29/13 20:20	95-63-6	
1,3,5-Trimethylbenzene	**51.5**	ug/L	5.0	2.5	1		06/29/13 20:20	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		06/29/13 20:20	75-01-4	
m&p-Xylene	**167**	ug/L	2.0	0.82	1		06/29/13 20:20	179601-23-1	
o-Xylene	**58.8**	ug/L	1.0	0.50	1		06/29/13 20:20	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	43-137		1		06/29/13 20:20	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		06/29/13 20:20	1868-53-7	
Toluene-d8 (S)	101	%	55-137		1		06/29/13 20:20	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: TW-6 **Lab ID: 4080362012** Collected: 06/26/13 16:30 Received: 06/28/13 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Lead, Dissolved	**<1.2**	ug/L	7.5	1.2	1		07/02/13 14:22	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		07/02/13 12:49	71-43-2	
Bromobenzene	**<0.48**	ug/L	1.0	0.48	1		07/02/13 12:49	108-86-1	
Bromochloromethane	**<0.49**	ug/L	1.0	0.49	1		07/02/13 12:49	74-97-5	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		07/02/13 12:49	75-27-4	
Bromoform	**<0.23**	ug/L	1.0	0.23	1		07/02/13 12:49	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		07/02/13 12:49	74-83-9	
n-Butylbenzene	**<0.40**	ug/L	1.0	0.40	1		07/02/13 12:49	104-51-8	
sec-Butylbenzene	**<0.60**	ug/L	5.0	0.60	1		07/02/13 12:49	135-98-8	
tert-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/02/13 12:49	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		07/02/13 12:49	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		07/02/13 12:49	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		07/02/13 12:49	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		07/02/13 12:49	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		07/02/13 12:49	74-87-3	
2-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		07/02/13 12:49	95-49-8	
4-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		07/02/13 12:49	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		07/02/13 12:49	96-12-8	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		07/02/13 12:49	124-48-1	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		07/02/13 12:49	106-93-4	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		07/02/13 12:49	74-95-3	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		07/02/13 12:49	95-50-1	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		07/02/13 12:49	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		07/02/13 12:49	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		07/02/13 12:49	75-71-8	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		07/02/13 12:49	75-34-3	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		07/02/13 12:49	107-06-2	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		07/02/13 12:49	75-35-4	
cis-1,2-Dichloroethene	**<0.42**	ug/L	1.0	0.42	1		07/02/13 12:49	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		07/02/13 12:49	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/02/13 12:49	78-87-5	
1,3-Dichloropropane	**<0.46**	ug/L	1.0	0.46	1		07/02/13 12:49	142-28-9	
2,2-Dichloropropane	**<0.37**	ug/L	1.0	0.37	1		07/02/13 12:49	594-20-7	
1,1-Dichloropropene	**<0.51**	ug/L	1.0	0.51	1		07/02/13 12:49	563-58-6	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		07/02/13 12:49	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		07/02/13 12:49	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		07/02/13 12:49	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/02/13 12:49	100-41-4	
Hexachloro-1,3-butadiene	**<1.3**	ug/L	5.0	1.3	1		07/02/13 12:49	87-68-3	
Isopropylbenzene (Cumene)	**<0.34**	ug/L	1.0	0.34	1		07/02/13 12:49	98-82-8	
p-Isopropyltoluene	**<0.40**	ug/L	1.0	0.40	1		07/02/13 12:49	99-87-6	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		07/02/13 12:49	75-09-2	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		07/02/13 12:49	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		07/02/13 12:49	91-20-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: TW-6 **Lab ID: 4080362012** Collected: 06/26/13 16:30 Received: 06/28/13 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/02/13 12:49	103-65-1	
Styrene	**<0.35**	ug/L	1.0	0.35	1		07/02/13 12:49	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.45**	ug/L	1.0	0.45	1		07/02/13 12:49	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		07/02/13 12:49	79-34-5	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		07/02/13 12:49	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		07/02/13 12:49	108-88-3	
1,2,3-Trichlorobenzene	**<0.77**	ug/L	5.0	0.77	1		07/02/13 12:49	87-61-6	
1,2,4-Trichlorobenzene	**<2.5**	ug/L	5.0	2.5	1		07/02/13 12:49	120-82-1	
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		07/02/13 12:49	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		07/02/13 12:49	79-00-5	
Trichloroethene	**<0.43**	ug/L	1.0	0.43	1		07/02/13 12:49	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		07/02/13 12:49	75-69-4	
1,2,3-Trichloropropane	**<0.47**	ug/L	1.0	0.47	1		07/02/13 12:49	96-18-4	
1,2,4-Trimethylbenzene	**<0.57**	ug/L	5.0	0.57	1		07/02/13 12:49	95-63-6	
1,3,5-Trimethylbenzene	**<2.5**	ug/L	5.0	2.5	1		07/02/13 12:49	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		07/02/13 12:49	75-01-4	
m&p-Xylene	**<0.82**	ug/L	2.0	0.82	1		07/02/13 12:49	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		07/02/13 12:49	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	43-137		1		07/02/13 12:49	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		07/02/13 12:49	1868-53-7	
Toluene-d8 (S)	100	%	55-137		1		07/02/13 12:49	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: TW-7 **Lab ID: 4080362013** Collected: 06/26/13 17:15 Received: 06/28/13 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Lead, Dissolved	**1.5J**	ug/L	7.5	1.2	1		07/02/13 14:29	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		07/02/13 13:12	71-43-2	
Bromobenzene	**<0.48**	ug/L	1.0	0.48	1		07/02/13 13:12	108-86-1	
Bromochloromethane	**<0.49**	ug/L	1.0	0.49	1		07/02/13 13:12	74-97-5	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		07/02/13 13:12	75-27-4	
Bromoform	**<0.23**	ug/L	1.0	0.23	1		07/02/13 13:12	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		07/02/13 13:12	74-83-9	
n-Butylbenzene	**<0.40**	ug/L	1.0	0.40	1		07/02/13 13:12	104-51-8	
sec-Butylbenzene	**<0.60**	ug/L	5.0	0.60	1		07/02/13 13:12	135-98-8	
tert-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/02/13 13:12	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		07/02/13 13:12	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		07/02/13 13:12	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		07/02/13 13:12	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		07/02/13 13:12	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		07/02/13 13:12	74-87-3	
2-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		07/02/13 13:12	95-49-8	
4-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		07/02/13 13:12	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		07/02/13 13:12	96-12-8	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		07/02/13 13:12	124-48-1	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		07/02/13 13:12	106-93-4	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		07/02/13 13:12	74-95-3	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		07/02/13 13:12	95-50-1	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		07/02/13 13:12	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		07/02/13 13:12	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		07/02/13 13:12	75-71-8	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		07/02/13 13:12	75-34-3	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		07/02/13 13:12	107-06-2	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		07/02/13 13:12	75-35-4	
cis-1,2-Dichloroethene	**<0.42**	ug/L	1.0	0.42	1		07/02/13 13:12	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		07/02/13 13:12	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/02/13 13:12	78-87-5	
1,3-Dichloropropane	**<0.46**	ug/L	1.0	0.46	1		07/02/13 13:12	142-28-9	
2,2-Dichloropropane	**<0.37**	ug/L	1.0	0.37	1		07/02/13 13:12	594-20-7	
1,1-Dichloropropene	**<0.51**	ug/L	1.0	0.51	1		07/02/13 13:12	563-58-6	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		07/02/13 13:12	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		07/02/13 13:12	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		07/02/13 13:12	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/02/13 13:12	100-41-4	
Hexachloro-1,3-butadiene	**<1.3**	ug/L	5.0	1.3	1		07/02/13 13:12	87-68-3	
Isopropylbenzene (Cumene)	**<0.34**	ug/L	1.0	0.34	1		07/02/13 13:12	98-82-8	
p-Isopropyltoluene	**<0.40**	ug/L	1.0	0.40	1		07/02/13 13:12	99-87-6	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		07/02/13 13:12	75-09-2	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		07/02/13 13:12	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		07/02/13 13:12	91-20-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: TW-7 **Lab ID: 4080362013** Collected: 06/26/13 17:15 Received: 06/28/13 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/02/13 13:12	103-65-1	
Styrene	**<0.35**	ug/L	1.0	0.35	1		07/02/13 13:12	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.45**	ug/L	1.0	0.45	1		07/02/13 13:12	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		07/02/13 13:12	79-34-5	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		07/02/13 13:12	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		07/02/13 13:12	108-88-3	
1,2,3-Trichlorobenzene	**<0.77**	ug/L	5.0	0.77	1		07/02/13 13:12	87-61-6	
1,2,4-Trichlorobenzene	**<2.5**	ug/L	5.0	2.5	1		07/02/13 13:12	120-82-1	
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		07/02/13 13:12	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		07/02/13 13:12	79-00-5	
Trichloroethene	**<0.43**	ug/L	1.0	0.43	1		07/02/13 13:12	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		07/02/13 13:12	75-69-4	
1,2,3-Trichloropropane	**<0.47**	ug/L	1.0	0.47	1		07/02/13 13:12	96-18-4	
1,2,4-Trimethylbenzene	**<0.57**	ug/L	5.0	0.57	1		07/02/13 13:12	95-63-6	
1,3,5-Trimethylbenzene	**<2.5**	ug/L	5.0	2.5	1		07/02/13 13:12	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		07/02/13 13:12	75-01-4	
m&p-Xylene	**<0.82**	ug/L	2.0	0.82	1		07/02/13 13:12	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		07/02/13 13:12	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	43-137		1		07/02/13 13:12	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		07/02/13 13:12	1868-53-7	
Toluene-d8 (S)	99	%	55-137		1		07/02/13 13:12	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: GP-7 (12.5-15') **Lab ID: 4080362014** Collected: 06/26/13 12:20 Received: 06/28/13 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**1.9**	mg/kg	1.1	0.32	1	07/01/13 13:05	07/02/13 13:15	7439-92-1	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	96-18-4	W
1,2,4-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	95-63-6	W
1,2-Dibromo-3-chloropropane	**<49.8**	ug/kg	250	49.8	1	07/01/13 14:12	07/02/13 03:06	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	75-25-2	W
Bromomethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	108-90-7	W
Chloroethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	75-00-3	W
Chloroform	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	1634-04-4	W

REPORT OF LABORATORY ANALYSIS

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(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: GP-7 (12.5-15') **Lab ID: 4080362014** Collected: 06/26/13 12:20 Received: 06/28/13 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	75-09-2	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	75-01-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	07/01/13 14:12	07/02/13 03:06	179601-23-1	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	07/01/13 14:12	07/02/13 03:06	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	95	%	57-130		1	07/01/13 14:12	07/02/13 03:06	1868-53-7	
Toluene-d8 (S)	101	%	54-133		1	07/01/13 14:12	07/02/13 03:06	2037-26-5	
4-Bromofluorobenzene (S)	98	%	49-130		1	07/01/13 14:12	07/02/13 03:06	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.1**	%	0.10	0.10	1		07/01/13 16:28		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: TW-4 **Lab ID: 4080362015** Collected: 06/27/13 08:15 Received: 06/28/13 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**9.3J**	ug/L	20.0	4.4	1		07/11/13 11:51	7440-38-2	P4
Barium, Dissolved	**210**	ug/L	5.0	1.1	1		07/11/13 11:51	7440-39-3	
Cadmium, Dissolved	**<0.38**	ug/L	5.0	0.38	1		07/11/13 11:51	7440-43-9	
Chromium, Dissolved	**3.0J**	ug/L	5.0	1.2	1		07/11/13 11:51	7440-47-3	
Lead, Dissolved	**3.2J**	ug/L	7.5	1.2	1		07/11/13 11:51	7439-92-1	
Selenium, Dissolved	**<6.6**	ug/L	20.0	6.6	1		07/11/13 11:51	7782-49-2	
Silver, Dissolved	**2.2J**	ug/L	10.0	1.4	1		07/11/13 11:51	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**1.8**	ug/L	0.20	0.10	1	07/15/13 10:35	07/15/13 15:25	7439-97-6	P4
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		07/02/13 14:00	71-43-2	
Bromobenzene	**<0.48**	ug/L	1.0	0.48	1		07/02/13 14:00	108-86-1	
Bromochloromethane	**<0.49**	ug/L	1.0	0.49	1		07/02/13 14:00	74-97-5	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		07/02/13 14:00	75-27-4	
Bromoform	**<0.23**	ug/L	1.0	0.23	1		07/02/13 14:00	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		07/02/13 14:00	74-83-9	
n-Butylbenzene	**<0.40**	ug/L	1.0	0.40	1		07/02/13 14:00	104-51-8	
sec-Butylbenzene	**<0.60**	ug/L	5.0	0.60	1		07/02/13 14:00	135-98-8	
tert-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/02/13 14:00	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		07/02/13 14:00	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		07/02/13 14:00	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		07/02/13 14:00	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		07/02/13 14:00	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		07/02/13 14:00	74-87-3	
2-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		07/02/13 14:00	95-49-8	
4-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		07/02/13 14:00	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		07/02/13 14:00	96-12-8	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		07/02/13 14:00	124-48-1	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		07/02/13 14:00	106-93-4	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		07/02/13 14:00	74-95-3	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		07/02/13 14:00	95-50-1	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		07/02/13 14:00	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		07/02/13 14:00	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		07/02/13 14:00	75-71-8	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		07/02/13 14:00	75-34-3	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		07/02/13 14:00	107-06-2	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		07/02/13 14:00	75-35-4	
cis-1,2-Dichloroethene	**<0.42**	ug/L	1.0	0.42	1		07/02/13 14:00	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		07/02/13 14:00	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/02/13 14:00	78-87-5	
1,3-Dichloropropane	**<0.46**	ug/L	1.0	0.46	1		07/02/13 14:00	142-28-9	
2,2-Dichloropropane	**<0.37**	ug/L	1.0	0.37	1		07/02/13 14:00	594-20-7	
1,1-Dichloropropene	**<0.51**	ug/L	1.0	0.51	1		07/02/13 14:00	563-58-6	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		07/02/13 14:00	10061-01-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: TW-4 **Lab ID: 4080362015** Collected: 06/27/13 08:15 Received: 06/28/13 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		07/02/13 14:00	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		07/02/13 14:00	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/02/13 14:00	100-41-4	
Hexachloro-1,3-butadiene	**<1.3**	ug/L	5.0	1.3	1		07/02/13 14:00	87-68-3	
Isopropylbenzene (Cumene)	**<0.34**	ug/L	1.0	0.34	1		07/02/13 14:00	98-82-8	
p-Isopropyltoluene	**<0.40**	ug/L	1.0	0.40	1		07/02/13 14:00	99-87-6	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		07/02/13 14:00	75-09-2	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		07/02/13 14:00	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		07/02/13 14:00	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/02/13 14:00	103-65-1	
Styrene	**<0.35**	ug/L	1.0	0.35	1		07/02/13 14:00	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.45**	ug/L	1.0	0.45	1		07/02/13 14:00	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		07/02/13 14:00	79-34-5	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		07/02/13 14:00	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		07/02/13 14:00	108-88-3	
1,2,3-Trichlorobenzene	**<0.77**	ug/L	5.0	0.77	1		07/02/13 14:00	87-61-6	
1,2,4-Trichlorobenzene	**<2.5**	ug/L	5.0	2.5	1		07/02/13 14:00	120-82-1	
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		07/02/13 14:00	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		07/02/13 14:00	79-00-5	
Trichloroethene	**<0.43**	ug/L	1.0	0.43	1		07/02/13 14:00	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		07/02/13 14:00	75-69-4	
1,2,3-Trichloropropane	**<0.47**	ug/L	1.0	0.47	1		07/02/13 14:00	96-18-4	
1,2,4-Trimethylbenzene	**<0.57**	ug/L	5.0	0.57	1		07/02/13 14:00	95-63-6	
1,3,5-Trimethylbenzene	**<2.5**	ug/L	5.0	2.5	1		07/02/13 14:00	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		07/02/13 14:00	75-01-4	
m&p-Xylene	**<0.82**	ug/L	2.0	0.82	1		07/02/13 14:00	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		07/02/13 14:00	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	43-137		1		07/02/13 14:00	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		07/02/13 14:00	1868-53-7	
Toluene-d8 (S)	93	%	55-137		1		07/02/13 14:00	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: GP-1 (18-20') **Lab ID: 4080362016** Collected: 06/26/13 14:45 Received: 06/28/13 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	630-20-6	W
1,1,1-Trichloroethane	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	71-55-6	W
1,1,2,2-Tetrachloroethane	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	79-34-5	W
1,1,2-Trichloroethane	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	79-00-5	W
1,1-Dichloroethane	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	75-34-3	W
1,1-Dichloroethene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	75-35-4	W
1,1-Dichloropropene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	563-58-6	W
1,2,3-Trichlorobenzene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	87-61-6	W
1,2,3-Trichloropropane	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	96-18-4	W
1,2,4-Trichlorobenzene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	120-82-1	W
1,2,4-Trimethylbenzene	**39.2**	ug/kg	33.6	14.0	1	07/01/13 14:12	07/02/13 03:29	95-63-6	
1,2-Dibromo-3-chloropropane	**<24.7**	ug/kg	124	24.7	1	07/01/13 14:12	07/02/13 03:29	96-12-8	W
1,2-Dibromoethane (EDB)	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	106-93-4	W
1,2-Dichlorobenzene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	95-50-1	W
1,2-Dichloroethane	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	107-06-2	W
1,2-Dichloropropane	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	78-87-5	W
1,3,5-Trimethylbenzene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	108-67-8	W
1,3-Dichlorobenzene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	541-73-1	W
1,3-Dichloropropane	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	142-28-9	W
1,4-Dichlorobenzene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	106-46-7	W
2,2-Dichloropropane	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	594-20-7	W
2-Chlorotoluene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	95-49-8	W
4-Chlorotoluene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	106-43-4	W
Benzene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	71-43-2	W
Bromobenzene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	108-86-1	W
Bromochloromethane	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	74-97-5	W
Bromodichloromethane	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	75-27-4	W
Bromoform	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	75-25-2	W
Bromomethane	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	74-83-9	W
Carbon tetrachloride	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	56-23-5	W
Chlorobenzene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	108-90-7	W
Chloroethane	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	75-00-3	W
Chloroform	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	67-66-3	W
Chloromethane	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	74-87-3	W
Dibromochloromethane	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	124-48-1	W
Dibromomethane	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	74-95-3	W
Dichlorodifluoromethane	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	75-71-8	W
Diisopropyl ether	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	108-20-3	W
Ethylbenzene	**18.1J**	ug/kg	33.6	14.0	1	07/01/13 14:12	07/02/13 03:29	100-41-4	
Hexachloro-1,3-butadiene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	87-68-3	W
Isopropylbenzene (Cumene)	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	98-82-8	W
Methyl-tert-butyl ether	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	1634-04-4	W
Methylene Chloride	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	75-09-2	W
Naphthalene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	91-20-3	W
Styrene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: GP-1 (18-20') **Lab ID: 4080362016** Collected: 06/26/13 14:45 Received: 06/28/13 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Tetrachloroethene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	127-18-4	W
Toluene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	108-88-3	W
Trichloroethene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	79-01-6	W
Trichlorofluoromethane	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	75-69-4	W
Vinyl chloride	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	75-01-4	W
cis-1,2-Dichloroethene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	156-59-2	W
cis-1,3-Dichloropropene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	10061-01-5	W
m&p-Xylene	**<24.8**	ug/kg	59.4	24.8	1	07/01/13 14:12	07/02/13 03:29	179601-23-1	W
n-Butylbenzene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	104-51-8	W
n-Propylbenzene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	103-65-1	W
o-Xylene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	95-47-6	W
p-Isopropyltoluene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	99-87-6	W
sec-Butylbenzene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	135-98-8	W
tert-Butylbenzene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	98-06-6	W
trans-1,2-Dichloroethene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	156-60-5	W
trans-1,3-Dichloropropene	**<12.4**	ug/kg	29.7	12.4	1	07/01/13 14:12	07/02/13 03:29	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	110	%	57-130		1	07/01/13 14:12	07/02/13 03:29	1868-53-7	1q
Toluene-d8 (S)	110	%	54-133		1	07/01/13 14:12	07/02/13 03:29	2037-26-5	
4-Bromofluorobenzene (S)	106	%	49-130		1	07/01/13 14:12	07/02/13 03:29	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.6**	%	0.10	0.10	1		07/01/13 17:25		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: TRIP BLANK **Lab ID: 4080362017** Collected: 06/26/13 00:00 Received: 06/28/13 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		06/29/13 17:17	71-43-2	
Bromobenzene	**<0.48**	ug/L	1.0	0.48	1		06/29/13 17:17	108-86-1	
Bromochloromethane	**<0.49**	ug/L	1.0	0.49	1		06/29/13 17:17	74-97-5	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		06/29/13 17:17	75-27-4	
Bromoform	**<0.23**	ug/L	1.0	0.23	1		06/29/13 17:17	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		06/29/13 17:17	74-83-9	
n-Butylbenzene	**<0.40**	ug/L	1.0	0.40	1		06/29/13 17:17	104-51-8	
sec-Butylbenzene	**<0.60**	ug/L	5.0	0.60	1		06/29/13 17:17	135-98-8	
tert-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/29/13 17:17	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		06/29/13 17:17	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		06/29/13 17:17	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		06/29/13 17:17	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		06/29/13 17:17	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		06/29/13 17:17	74-87-3	
2-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		06/29/13 17:17	95-49-8	
4-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		06/29/13 17:17	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		06/29/13 17:17	96-12-8	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		06/29/13 17:17	124-48-1	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		06/29/13 17:17	106-93-4	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		06/29/13 17:17	74-95-3	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		06/29/13 17:17	95-50-1	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		06/29/13 17:17	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		06/29/13 17:17	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		06/29/13 17:17	75-71-8	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		06/29/13 17:17	75-34-3	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		06/29/13 17:17	107-06-2	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		06/29/13 17:17	75-35-4	
cis-1,2-Dichloroethene	**<0.42**	ug/L	1.0	0.42	1		06/29/13 17:17	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		06/29/13 17:17	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		06/29/13 17:17	78-87-5	
1,3-Dichloropropane	**<0.46**	ug/L	1.0	0.46	1		06/29/13 17:17	142-28-9	
2,2-Dichloropropane	**<0.37**	ug/L	1.0	0.37	1		06/29/13 17:17	594-20-7	
1,1-Dichloropropene	**<0.51**	ug/L	1.0	0.51	1		06/29/13 17:17	563-58-6	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		06/29/13 17:17	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		06/29/13 17:17	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		06/29/13 17:17	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/29/13 17:17	100-41-4	
Hexachloro-1,3-butadiene	**<1.3**	ug/L	5.0	1.3	1		06/29/13 17:17	87-68-3	
Isopropylbenzene (Cumene)	**<0.34**	ug/L	1.0	0.34	1		06/29/13 17:17	98-82-8	
p-Isopropyltoluene	**<0.40**	ug/L	1.0	0.40	1		06/29/13 17:17	99-87-6	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		06/29/13 17:17	75-09-2	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		06/29/13 17:17	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		06/29/13 17:17	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/29/13 17:17	103-65-1	
Styrene	**<0.35**	ug/L	1.0	0.35	1		06/29/13 17:17	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.45**	ug/L	1.0	0.45	1		06/29/13 17:17	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Sample: TRIP BLANK **Lab ID: 4080362017** Collected: 06/26/13 00:00 Received: 06/28/13 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		06/29/13 17:17	79-34-5	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		06/29/13 17:17	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		06/29/13 17:17	108-88-3	
1,2,3-Trichlorobenzene	**<0.77**	ug/L	5.0	0.77	1		06/29/13 17:17	87-61-6	
1,2,4-Trichlorobenzene	**<2.5**	ug/L	5.0	2.5	1		06/29/13 17:17	120-82-1	
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		06/29/13 17:17	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		06/29/13 17:17	79-00-5	
Trichloroethene	**<0.43**	ug/L	1.0	0.43	1		06/29/13 17:17	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		06/29/13 17:17	75-69-4	
1,2,3-Trichloropropane	**<0.47**	ug/L	1.0	0.47	1		06/29/13 17:17	96-18-4	
1,2,4-Trimethylbenzene	**<0.57**	ug/L	5.0	0.57	1		06/29/13 17:17	95-63-6	
1,3,5-Trimethylbenzene	**<2.5**	ug/L	5.0	2.5	1		06/29/13 17:17	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		06/29/13 17:17	75-01-4	
m&p-Xylene	**<0.82**	ug/L	2.0	0.82	1		06/29/13 17:17	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		06/29/13 17:17	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	43-137		1		06/29/13 17:17	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		06/29/13 17:17	1868-53-7	
Toluene-d8 (S)	99	%	55-137		1		06/29/13 17:17	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(920)469-2436

QUALITY CONTROL DATA

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

QC Batch: ICP/7745 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 4080362012, 4080362013

METHOD BLANK: 816989 Matrix: Water
Associated Lab Samples: 4080362012, 4080362013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead, Dissolved	ug/L	<1.2	7.5	07/02/13 13:40	

LABORATORY CONTROL SAMPLE: 816990

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	500	446	89	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 816991 816992

Parameter	Units	4080419004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead, Dissolved	ug/L	2.5J	500	500	493	498	98	99	75-125	1	20	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

QC Batch: ICP/7773
QC Batch Method: EPA 6010
Analysis Method: EPA 6010
Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 4080362015

METHOD BLANK: 820817 Matrix: Water
Associated Lab Samples: 4080362015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<4.4	20.0	07/11/13 11:47	
Barium, Dissolved	ug/L	<1.1	5.0	07/11/13 11:47	
Cadmium, Dissolved	ug/L	<0.38	5.0	07/11/13 11:47	
Chromium, Dissolved	ug/L	<1.2	5.0	07/11/13 11:47	
Lead, Dissolved	ug/L	<1.2	7.5	07/11/13 11:47	
Selenium, Dissolved	ug/L	<6.6	20.0	07/11/13 11:47	
Silver, Dissolved	ug/L	<1.4	10.0	07/11/13 11:47	

LABORATORY CONTROL SAMPLE: 820818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	523	105	80-120	
Barium, Dissolved	ug/L	500	523	105	80-120	
Cadmium, Dissolved	ug/L	500	524	105	80-120	
Chromium, Dissolved	ug/L	500	519	104	80-120	
Lead, Dissolved	ug/L	500	528	106	80-120	
Selenium, Dissolved	ug/L	500	461	92	80-120	
Silver, Dissolved	ug/L	250	222	89	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 820819 820820

Parameter	Units	4080362015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	9.3J	500	500	556	567	109	112	75-125	2	20	
Barium, Dissolved	ug/L	210	500	500	720	732	102	104	75-125	2	20	
Cadmium, Dissolved	ug/L	<0.38	500	500	552	564	110	113	75-125	2	20	
Chromium, Dissolved	ug/L	3.0J	500	500	520	531	103	106	75-125	2	20	
Lead, Dissolved	ug/L	3.2J	500	500	497	509	99	101	75-125	2	20	
Selenium, Dissolved	ug/L	<6.6	500	500	486	507	97	101	75-125	4	20	
Silver, Dissolved	ug/L	2.2J	250	250	247	253	98	100	75-125	3	20	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

QC Batch: MERP/3742
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury Dissolved
Associated Lab Samples: 4080362015

METHOD BLANK: 823141 Matrix: Water
Associated Lab Samples: 4080362015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.10	0.20	07/15/13 14:08	

METHOD BLANK: 823143 Matrix: Water
Associated Lab Samples: 4080362015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.10	0.20	07/15/13 14:27	2q

LABORATORY CONTROL SAMPLE: 823142

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.6	91	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 823144 823145

Parameter	Units	4081036001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	<0.10	5	5	4.9	4.9	97	97	85-115	0	20	

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

QC Batch: MERP/3727
QC Batch Method: EPA 7471
Analysis Method: EPA 7471
Analysis Description: 7471 Mercury
Associated Lab Samples: 4080362003

METHOD BLANK: 816563 Matrix: Solid
Associated Lab Samples: 4080362003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.0033	0.0067	07/02/13 11:33	

LABORATORY CONTROL SAMPLE: 816564

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.17	0.18	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 816565 816566

Parameter	Units	4080411003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.012	.19	.2	0.21	0.21	102	102	85-115	0	20	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

QC Batch: MPRP/8728 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 4080362003, 4080362006, 4080362007, 4080362014

METHOD BLANK: 816504 Matrix: Solid
Associated Lab Samples: 4080362003, 4080362006, 4080362007, 4080362014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<0.54	2.0	07/02/13 12:37	
Barium	mg/kg	<0.087	0.50	07/02/13 12:37	
Cadmium	mg/kg	<0.051	0.50	07/02/13 12:37	
Chromium	mg/kg	<0.13	0.50	07/02/13 12:37	
Lead	mg/kg	<0.29	1.0	07/02/13 12:37	
Selenium	mg/kg	<0.59	2.0	07/02/13 12:37	
Silver	mg/kg	<0.21	1.0	07/02/13 12:37	

LABORATORY CONTROL SAMPLE: 816505

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	45.1	90	80-120	
Barium	mg/kg	50	46.9	94	80-120	
Cadmium	mg/kg	50	45.4	91	80-120	
Chromium	mg/kg	50	46.9	94	80-120	
Lead	mg/kg	50	46.5	93	80-120	
Selenium	mg/kg	50	46.3	93	80-120	
Silver	mg/kg	25	23.0	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 816506 816507

Parameter	Units	4080411003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	0.71J	58.2	58.2	50.8	50.1	86	85	75-125	1	20	
Barium	mg/kg	23.5	58.2	58.2	74.8	73.1	88	85	75-125	2	20	
Cadmium	mg/kg	0.089J	58.2	58.2	50.2	49.8	86	85	75-125	1	20	
Chromium	mg/kg	11.2	58.2	58.2	62.3	60.4	88	85	75-125	3	20	
Lead	mg/kg	2.9	58.2	58.2	53.5	53.5	87	87	75-125	0	20	
Selenium	mg/kg	<0.69	58.2	58.2	49.5	50.0	84	85	75-125	1	20	
Silver	mg/kg	<0.25	29.1	29.1	25.2	25.0	87	86	75-125	1	20	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

QC Batch: MSV/20306 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 4080362001, 4080362002, 4080362003, 4080362004, 4080362005, 4080362006, 4080362007, 4080362014, 4080362016

METHOD BLANK: 816619 Matrix: Solid
Associated Lab Samples: 4080362001, 4080362002, 4080362003, 4080362004, 4080362005, 4080362006, 4080362007, 4080362014, 4080362016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<25.0	60.0	07/01/13 17:59	
1,1,1-Trichloroethane	ug/kg	<25.0	60.0	07/01/13 17:59	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	60.0	07/01/13 17:59	
1,1,2-Trichloroethane	ug/kg	<25.0	60.0	07/01/13 17:59	
1,1-Dichloroethane	ug/kg	<25.0	60.0	07/01/13 17:59	
1,1-Dichloroethene	ug/kg	<25.0	60.0	07/01/13 17:59	
1,1-Dichloropropene	ug/kg	<25.0	60.0	07/01/13 17:59	
1,2,3-Trichlorobenzene	ug/kg	<25.0	60.0	07/01/13 17:59	
1,2,3-Trichloropropane	ug/kg	<25.0	60.0	07/01/13 17:59	
1,2,4-Trichlorobenzene	ug/kg	<25.0	60.0	07/01/13 17:59	
1,2,4-Trimethylbenzene	ug/kg	<25.0	60.0	07/01/13 17:59	
1,2-Dibromo-3-chloropropane	ug/kg	<49.8	250	07/01/13 17:59	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	60.0	07/01/13 17:59	
1,2-Dichlorobenzene	ug/kg	<25.0	60.0	07/01/13 17:59	
1,2-Dichloroethane	ug/kg	<25.0	60.0	07/01/13 17:59	
1,2-Dichloropropane	ug/kg	<25.0	60.0	07/01/13 17:59	
1,3,5-Trimethylbenzene	ug/kg	<25.0	60.0	07/01/13 17:59	
1,3-Dichlorobenzene	ug/kg	<25.0	60.0	07/01/13 17:59	
1,3-Dichloropropane	ug/kg	<25.0	60.0	07/01/13 17:59	
1,4-Dichlorobenzene	ug/kg	<25.0	60.0	07/01/13 17:59	
2,2-Dichloropropane	ug/kg	<25.0	60.0	07/01/13 17:59	
2-Chlorotoluene	ug/kg	<25.0	60.0	07/01/13 17:59	
4-Chlorotoluene	ug/kg	<25.0	60.0	07/01/13 17:59	
Benzene	ug/kg	<25.0	60.0	07/01/13 17:59	
Bromobenzene	ug/kg	<25.0	60.0	07/01/13 17:59	
Bromochloromethane	ug/kg	<25.0	60.0	07/01/13 17:59	
Bromodichloromethane	ug/kg	<25.0	60.0	07/01/13 17:59	
Bromoform	ug/kg	<25.0	60.0	07/01/13 17:59	
Bromomethane	ug/kg	<25.0	60.0	07/01/13 17:59	
Carbon tetrachloride	ug/kg	<25.0	60.0	07/01/13 17:59	
Chlorobenzene	ug/kg	<25.0	60.0	07/01/13 17:59	
Chloroethane	ug/kg	<25.0	60.0	07/01/13 17:59	
Chloroform	ug/kg	<25.0	60.0	07/01/13 17:59	
Chloromethane	ug/kg	<25.0	60.0	07/01/13 17:59	
cis-1,2-Dichloroethene	ug/kg	<25.0	60.0	07/01/13 17:59	
cis-1,3-Dichloropropene	ug/kg	<25.0	60.0	07/01/13 17:59	
Dibromochloromethane	ug/kg	<25.0	60.0	07/01/13 17:59	
Dibromomethane	ug/kg	<25.0	60.0	07/01/13 17:59	
Dichlorodifluoromethane	ug/kg	<25.0	60.0	07/01/13 17:59	
Diisopropyl ether	ug/kg	<25.0	60.0	07/01/13 17:59	
Ethylbenzene	ug/kg	<25.0	60.0	07/01/13 17:59	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

METHOD BLANK: 816619 Matrix: Solid

Associated Lab Samples: 4080362001, 4080362002, 4080362003, 4080362004, 4080362005, 4080362006, 4080362007, 4080362014, 4080362016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<25.0	60.0	07/01/13 17:59	
Isopropylbenzene (Cumene)	ug/kg	<25.0	60.0	07/01/13 17:59	
m&p-Xylene	ug/kg	<50.0	120	07/01/13 17:59	
Methyl-tert-butyl ether	ug/kg	<25.0	60.0	07/01/13 17:59	
Methylene Chloride	ug/kg	<25.0	60.0	07/01/13 17:59	
n-Butylbenzene	ug/kg	<25.0	60.0	07/01/13 17:59	
n-Propylbenzene	ug/kg	<25.0	60.0	07/01/13 17:59	
Naphthalene	ug/kg	<25.0	60.0	07/01/13 17:59	
o-Xylene	ug/kg	<25.0	60.0	07/01/13 17:59	
p-Isopropyltoluene	ug/kg	<25.0	60.0	07/01/13 17:59	
sec-Butylbenzene	ug/kg	<25.0	60.0	07/01/13 17:59	
Styrene	ug/kg	<25.0	60.0	07/01/13 17:59	
tert-Butylbenzene	ug/kg	<25.0	60.0	07/01/13 17:59	
Tetrachloroethene	ug/kg	<25.0	60.0	07/01/13 17:59	
Toluene	ug/kg	<25.0	60.0	07/01/13 17:59	
trans-1,2-Dichloroethene	ug/kg	<25.0	60.0	07/01/13 17:59	
trans-1,3-Dichloropropene	ug/kg	<25.0	60.0	07/01/13 17:59	
Trichloroethene	ug/kg	<25.0	60.0	07/01/13 17:59	
Trichlorofluoromethane	ug/kg	<25.0	60.0	07/01/13 17:59	
Vinyl chloride	ug/kg	<25.0	60.0	07/01/13 17:59	
4-Bromofluorobenzene (S)	%	100	49-130	07/01/13 17:59	
Dibromofluoromethane (S)	%	101	57-130	07/01/13 17:59	
Toluene-d8 (S)	%	103	54-133	07/01/13 17:59	

LABORATORY CONTROL SAMPLE & LCSD: 816620 816621

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2300	2380	92	95	70-130	3	20	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2550	2490	102	100	70-130	2	20	
1,1,2-Trichloroethane	ug/kg	2500	2220	2230	89	89	70-130	1	20	
1,1-Dichloroethane	ug/kg	2500	2380	2470	95	99	70-130	4	20	
1,1-Dichloroethene	ug/kg	2500	2420	2480	97	99	64-130	2	20	
1,2,4-Trichlorobenzene	ug/kg	2500	2440	2350	98	94	68-130	4	20	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2150	2180	86	87	50-150	1	20	
1,2-Dibromoethane (EDB)	ug/kg	2500	2330	2310	93	92	70-130	1	20	
1,2-Dichlorobenzene	ug/kg	2500	2540	2480	102	99	70-130	2	20	
1,2-Dichloroethane	ug/kg	2500	2410	2370	97	95	70-130	2	20	
1,2-Dichloropropane	ug/kg	2500	2360	2400	94	96	70-130	2	20	
1,3-Dichlorobenzene	ug/kg	2500	2420	2380	97	95	70-130	2	20	
1,4-Dichlorobenzene	ug/kg	2500	2390	2330	95	93	70-130	2	20	
Benzene	ug/kg	2500	2310	2380	92	95	70-130	3	20	
Bromodichloromethane	ug/kg	2500	2370	2360	95	94	70-130	0	20	
Bromoform	ug/kg	2500	2180	2210	87	88	63-130	1	20	
Bromomethane	ug/kg	2500	2420	2410	97	96	41-142	1	20	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

LABORATORY CONTROL SAMPLE & LCSD: 816620 816621

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Carbon tetrachloride	ug/kg	2500	2370	2350	95	94	70-130	1	20	
Chlorobenzene	ug/kg	2500	2310	2370	92	95	70-130	3	20	
Chloroethane	ug/kg	2500	2310	2430	92	97	57-130	5	20	
Chloroform	ug/kg	2500	2310	2350	93	94	70-130	2	20	
Chloromethane	ug/kg	2500	2170	2160	87	86	57-130	0	20	
cis-1,2-Dichloroethene	ug/kg	2500	2300	2370	92	95	70-130	3	20	
cis-1,3-Dichloropropene	ug/kg	2500	2200	2200	88	88	70-130	0	20	
Dibromochloromethane	ug/kg	2500	2320	2340	93	94	70-130	1	20	
Dichlorodifluoromethane	ug/kg	2500	1790	1830	72	73	31-150	3	20	
Ethylbenzene	ug/kg	2500	2370	2390	95	96	65-137	1	20	
Isopropylbenzene (Cumene)	ug/kg	2500	2350	2350	94	94	70-130	0	20	
m&p-Xylene	ug/kg	5000	4810	4870	96	97	64-139	1	20	
Methyl-tert-butyl ether	ug/kg	2500	2410	2480	96	99	69-130	3	20	
Methylene Chloride	ug/kg	2500	2400	2500	96	100	70-130	4	20	
o-Xylene	ug/kg	2500	2350	2350	94	94	63-135	0	20	
Styrene	ug/kg	2500	2310	2360	92	94	69-130	2	20	
Tetrachloroethene	ug/kg	2500	2330	2390	93	96	70-130	2	20	
Toluene	ug/kg	2500	2400	2440	96	98	70-130	2	20	
trans-1,2-Dichloroethene	ug/kg	2500	2430	2490	97	99	70-130	2	20	
trans-1,3-Dichloropropene	ug/kg	2500	2310	2320	92	93	70-130	1	20	
Trichloroethene	ug/kg	2500	2400	2510	96	100	70-130	4	20	
Trichlorofluoromethane	ug/kg	2500	2530	2600	101	104	50-150	3	20	
Vinyl chloride	ug/kg	2500	2320	2380	93	95	57-130	3	20	
4-Bromofluorobenzene (S)	%				104	106	49-130			
Dibromofluoromethane (S)	%				104	105	57-130			
Toluene-d8 (S)	%				106	105	54-133			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 816622 816623

Parameter	Units	4080411003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<25.0	2930	2930	2800	2780	96	95	63-139	1	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	2930	2930	2990	2920	102	100	52-149	2	26	
1,1,2-Trichloroethane	ug/kg	<25.0	2930	2930	2740	2670	93	91	65-134	3	20	
1,1-Dichloroethane	ug/kg	<25.0	2930	2930	2920	2910	100	99	55-138	0	20	
1,1-Dichloroethene	ug/kg	<25.0	2930	2930	2890	2940	99	100	50-133	2	20	
1,2,4-Trichlorobenzene	ug/kg	<25.0	2930	2930	3020	2860	103	98	68-130	5	24	
1,2-Dibromo-3-chloropropane	ug/kg	<49.8	2930	2930	2710	2700	93	92	50-150	1	20	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	2930	2930	2870	2730	98	93	67-130	5	20	
1,2-Dichlorobenzene	ug/kg	<25.0	2930	2930	3020	2930	103	100	70-130	3	20	
1,2-Dichloroethane	ug/kg	<25.0	2930	2930	2900	2840	99	97	58-142	2	21	
1,2-Dichloropropane	ug/kg	<25.0	2930	2930	2860	2630	98	90	59-135	9	20	
1,3-Dichlorobenzene	ug/kg	<25.0	2930	2930	2830	2800	97	95	70-130	1	20	
1,4-Dichlorobenzene	ug/kg	<25.0	2930	2930	2800	2720	96	93	68-130	3	20	
Benzene	ug/kg	<25.0	2930	2930	2830	2740	96	94	41-130	3	20	
Bromodichloromethane	ug/kg	<25.0	2930	2930	2930	2780	100	95	58-136	5	20	
Bromoform	ug/kg	<25.0	2930	2930	2660	2640	91	90	33-162	1	20	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 816622 816623

Parameter	Units	4080411003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromomethane	ug/kg	<25.0	2930	2930	3170	2930	108	100	31-156	8	27	
Carbon tetrachloride	ug/kg	<25.0	2930	2930	2730	2760	93	94	56-146	1	22	
Chlorobenzene	ug/kg	<25.0	2930	2930	2890	2780	99	95	67-130	4	20	
Chloroethane	ug/kg	<25.0	2930	2930	3350	3480	114	119	18-187	4	29	
Chloroform	ug/kg	<25.0	2930	2930	2780	2770	95	94	63-135	0	20	
Chloromethane	ug/kg	<25.0	2930	2930	2680	2690	91	92	36-130	0	30	
cis-1,2-Dichloroethene	ug/kg	<25.0	2930	2930	2820	2830	96	96	59-130	0	20	
cis-1,3-Dichloropropene	ug/kg	<25.0	2930	2930	2690	2610	92	89	61-130	3	20	
Dibromochloromethane	ug/kg	<25.0	2930	2930	2850	2820	97	96	51-145	1	20	
Dichlorodifluoromethane	ug/kg	<25.0	2930	2930	2270	2120	77	72	15-150	7	50	
Ethylbenzene	ug/kg	<25.0	2930	2930	2910	2850	99	97	25-150	2	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	2930	2930	2840	2820	97	96	70-130	1	20	
m&p-Xylene	ug/kg	<50.0	5870	5870	5890	5740	100	98	26-146	3	20	
Methyl-tert-butyl ether	ug/kg	<25.0	2930	2930	2930	2910	100	99	54-130	1	20	
Methylene Chloride	ug/kg	<25.0	2930	2930	3000	2880	102	98	52-137	4	20	
o-Xylene	ug/kg	<25.0	2930	2930	2920	2780	99	95	20-149	5	20	
Styrene	ug/kg	<25.0	2930	2930	2860	2720	97	93	60-135	5	20	
Tetrachloroethene	ug/kg	<25.0	2930	2930	2830	2850	96	97	62-133	1	20	
Toluene	ug/kg	<25.0	2930	2930	2920	2830	99	96	34-136	3	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	2930	2930	2930	2930	100	100	60-130	0	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	2930	2930	2830	2750	97	94	53-136	3	20	
Trichloroethene	ug/kg	<25.0	2930	2930	2950	2830	100	96	66-131	4	20	
Trichlorofluoromethane	ug/kg	<25.0	2930	2930	2880	2930	98	100	50-150	2	31	
Vinyl chloride	ug/kg	<25.0	2930	2930	2860	2870	97	98	36-130	1	28	
4-Bromofluorobenzene (S)	%						104	103	49-130			
Dibromofluoromethane (S)	%						107	102	57-130			
Toluene-d8 (S)	%						105	105	54-133			

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

QC Batch: MSV/20284 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4080362008, 4080362009, 4080362010, 4080362011, 4080362017

METHOD BLANK: 816096 Matrix: Water
Associated Lab Samples: 4080362008, 4080362009, 4080362010, 4080362011, 4080362017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.45	1.0	06/29/13 10:49	
1,1,1-Trichloroethane	ug/L	<0.44	1.0	06/29/13 10:49	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	06/29/13 10:49	
1,1,2-Trichloroethane	ug/L	<0.39	1.0	06/29/13 10:49	
1,1-Dichloroethane	ug/L	<0.28	1.0	06/29/13 10:49	
1,1-Dichloroethene	ug/L	<0.43	1.0	06/29/13 10:49	
1,1-Dichloropropene	ug/L	<0.51	1.0	06/29/13 10:49	
1,2,3-Trichlorobenzene	ug/L	<0.77	5.0	06/29/13 10:49	
1,2,3-Trichloropropane	ug/L	<0.47	1.0	06/29/13 10:49	
1,2,4-Trichlorobenzene	ug/L	<2.5	5.0	06/29/13 10:49	
1,2,4-Trimethylbenzene	ug/L	<0.57	5.0	06/29/13 10:49	
1,2-Dibromo-3-chloropropane	ug/L	<1.5	5.0	06/29/13 10:49	
1,2-Dibromoethane (EDB)	ug/L	<0.38	1.0	06/29/13 10:49	
1,2-Dichlorobenzene	ug/L	<0.44	1.0	06/29/13 10:49	
1,2-Dichloroethane	ug/L	<0.48	1.0	06/29/13 10:49	
1,2-Dichloropropane	ug/L	<0.50	1.0	06/29/13 10:49	
1,3,5-Trimethylbenzene	ug/L	<2.5	5.0	06/29/13 10:49	
1,3-Dichlorobenzene	ug/L	<0.45	1.0	06/29/13 10:49	
1,3-Dichloropropane	ug/L	<0.46	1.0	06/29/13 10:49	
1,4-Dichlorobenzene	ug/L	<0.43	1.0	06/29/13 10:49	
2,2-Dichloropropane	ug/L	<0.37	1.0	06/29/13 10:49	
2-Chlorotoluene	ug/L	<0.48	1.0	06/29/13 10:49	
4-Chlorotoluene	ug/L	<0.48	1.0	06/29/13 10:49	
Benzene	ug/L	<0.50	1.0	06/29/13 10:49	
Bromobenzene	ug/L	<0.48	1.0	06/29/13 10:49	
Bromochloromethane	ug/L	<0.49	1.0	06/29/13 10:49	
Bromodichloromethane	ug/L	<0.45	1.0	06/29/13 10:49	
Bromoform	ug/L	<0.23	1.0	06/29/13 10:49	
Bromomethane	ug/L	<0.43	5.0	06/29/13 10:49	
Carbon tetrachloride	ug/L	<0.37	1.0	06/29/13 10:49	
Chlorobenzene	ug/L	<0.36	1.0	06/29/13 10:49	
Chloroethane	ug/L	<0.44	1.0	06/29/13 10:49	
Chloroform	ug/L	<0.69	5.0	06/29/13 10:49	
Chloromethane	ug/L	<0.39	1.0	06/29/13 10:49	
cis-1,2-Dichloroethene	ug/L	<0.42	1.0	06/29/13 10:49	
cis-1,3-Dichloropropene	ug/L	<0.29	1.0	06/29/13 10:49	
Dibromochloromethane	ug/L	<1.9	5.0	06/29/13 10:49	
Dibromomethane	ug/L	<0.48	1.0	06/29/13 10:49	
Dichlorodifluoromethane	ug/L	<0.40	1.0	06/29/13 10:49	
Diisopropyl ether	ug/L	<0.50	1.0	06/29/13 10:49	
Ethylbenzene	ug/L	<0.50	1.0	06/29/13 10:49	
Hexachloro-1,3-butadiene	ug/L	<1.3	5.0	06/29/13 10:49	
Isopropylbenzene (Cumene)	ug/L	<0.34	1.0	06/29/13 10:49	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

METHOD BLANK: 816096 Matrix: Water

Associated Lab Samples: 4080362008, 4080362009, 4080362010, 4080362011, 4080362017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/L	<0.82	2.0	06/29/13 10:49	
Methyl-tert-butyl ether	ug/L	<0.49	1.0	06/29/13 10:49	
Methylene Chloride	ug/L	<0.36	1.0	06/29/13 10:49	
n-Butylbenzene	ug/L	<0.40	1.0	06/29/13 10:49	
n-Propylbenzene	ug/L	<0.50	1.0	06/29/13 10:49	
Naphthalene	ug/L	<2.5	5.0	06/29/13 10:49	
o-Xylene	ug/L	<0.50	1.0	06/29/13 10:49	
p-Isopropyltoluene	ug/L	<0.40	1.0	06/29/13 10:49	
sec-Butylbenzene	ug/L	<0.60	5.0	06/29/13 10:49	
Styrene	ug/L	<0.35	1.0	06/29/13 10:49	
tert-Butylbenzene	ug/L	<0.42	1.0	06/29/13 10:49	
Tetrachloroethene	ug/L	<0.47	1.0	06/29/13 10:49	
Toluene	ug/L	<0.44	1.0	06/29/13 10:49	
trans-1,2-Dichloroethene	ug/L	<0.37	1.0	06/29/13 10:49	
trans-1,3-Dichloropropene	ug/L	<0.26	1.0	06/29/13 10:49	
Trichloroethene	ug/L	<0.43	1.0	06/29/13 10:49	
Trichlorofluoromethane	ug/L	<0.48	1.0	06/29/13 10:49	
Vinyl chloride	ug/L	<0.18	1.0	06/29/13 10:49	
4-Bromofluorobenzene (S)	%	96	43-137	06/29/13 10:49	
Dibromofluoromethane (S)	%	97	70-130	06/29/13 10:49	
Toluene-d8 (S)	%	101	55-137	06/29/13 10:49	

LABORATORY CONTROL SAMPLE & LCSD: 816097 816098

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.6	49.2	95	98	70-136	3	20	
1,1,2,2-Tetrachloroethane	ug/L	50	54.7	56.8	109	114	70-130	4	20	
1,1,2-Trichloroethane	ug/L	50	52.6	54.1	105	108	70-130	3	20	
1,1-Dichloroethane	ug/L	50	62.7	64.2	125	128	70-146	2	20	
1,1-Dichloroethene	ug/L	50	55.1	56.2	110	112	70-130	2	20	
1,2,4-Trichlorobenzene	ug/L	50	49.2	51.8	98	104	70-130	5	20	
1,2-Dibromo-3-chloropropane	ug/L	50	43.3	46.8	87	94	46-150	8	20	
1,2-Dibromoethane (EDB)	ug/L	50	49.4	52.0	99	104	70-130	5	20	
1,2-Dichlorobenzene	ug/L	50	51.3	52.7	103	105	70-130	3	20	
1,2-Dichloroethane	ug/L	50	54.4	56.1	109	112	70-144	3	20	
1,2-Dichloropropane	ug/L	50	54.4	55.3	109	111	70-136	2	20	
1,3-Dichlorobenzene	ug/L	50	52.3	52.9	105	106	70-130	1	20	
1,4-Dichlorobenzene	ug/L	50	50.8	52.7	102	105	70-130	4	20	
Benzene	ug/L	50	54.6	56.2	109	112	70-137	3	20	
Bromodichloromethane	ug/L	50	46.7	47.8	93	96	70-133	2	20	
Bromoform	ug/L	50	41.1	42.6	82	85	59-130	4	20	
Bromomethane	ug/L	50	46.8	49.7	94	99	41-148	6	20	
Carbon tetrachloride	ug/L	50	46.3	48.1	93	96	70-154	4	20	
Chlorobenzene	ug/L	50	50.2	51.6	100	103	70-130	3	20	
Chloroethane	ug/L	50	54.9	56.1	110	112	70-139	2	20	

REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

LABORATORY CONTROL SAMPLE & LCSD: 816097 816098

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloroform	ug/L	50	51.8	52.8	104	106	70-130	2	20	
Chloromethane	ug/L	50	49.3	50.2	99	100	45-154	2	20	
cis-1,2-Dichloroethene	ug/L	50	50.7	52.8	101	106	70-130	4	20	
cis-1,3-Dichloropropene	ug/L	50	44.9	46.1	90	92	70-136	3	20	
Dibromochloromethane	ug/L	50	44.7	45.9	89	92	70-130	3	20	
Dichlorodifluoromethane	ug/L	50	43.0	44.4	86	89	20-157	3	20	
Ethylbenzene	ug/L	50	53.5	54.7	107	109	70-130	2	20	
Isopropylbenzene (Cumene)	ug/L	50	53.9	55.2	108	110	70-130	2	20	
m&p-Xylene	ug/L	100	105	108	105	108	70-130	2	20	
Methyl-tert-butyl ether	ug/L	50	49.8	52.1	100	104	59-141	5	20	
Methylene Chloride	ug/L	50	54.7	56.1	109	112	70-130	3	20	
o-Xylene	ug/L	50	50.6	52.0	101	104	70-130	3	20	
Styrene	ug/L	50	53.0	53.6	106	107	70-130	1	20	
Tetrachloroethene	ug/L	50	47.8	49.5	96	99	70-130	4	20	
Toluene	ug/L	50	51.6	52.7	103	105	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	50	54.9	56.4	110	113	70-130	3	20	
trans-1,3-Dichloropropene	ug/L	50	43.7	45.3	87	91	55-135	4	20	
Trichloroethene	ug/L	50	52.4	53.9	105	108	70-130	3	20	
Trichlorofluoromethane	ug/L	50	54.9	56.2	110	112	50-150	2	20	
Vinyl chloride	ug/L	50	53.1	54.4	106	109	61-143	2	20	
4-Bromofluorobenzene (S)	%				102	102	43-137			
Dibromofluoromethane (S)	%				102	103	70-130			
Toluene-d8 (S)	%				102	101	55-137			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 816240 816241

Parameter	Units	4080331001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.44	50	50	47.4	46.4	95	93	70-136	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	54.0	52.5	108	105	70-130	3	20	
1,1,2-Trichloroethane	ug/L	<0.39	50	50	51.0	50.1	102	100	70-130	2	20	
1,1-Dichloroethane	ug/L	<0.28	50	50	62.3	59.7	125	119	70-146	4	20	
1,1-Dichloroethene	ug/L	<0.43	50	50	52.7	50.6	105	101	70-130	4	20	
1,2,4-Trichlorobenzene	ug/L	<2.5	50	50	48.1	46.5	96	93	70-130	3	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.5	50	50	44.0	41.9	88	84	46-150	5	20	
1,2-Dibromoethane (EDB)	ug/L	<0.38	50	50	48.5	47.6	97	95	70-130	2	20	
1,2-Dichlorobenzene	ug/L	<0.44	50	50	50.0	48.8	100	98	70-130	2	20	
1,2-Dichloroethane	ug/L	<0.48	50	50	53.8	52.6	108	105	70-146	2	20	
1,2-Dichloropropane	ug/L	<0.50	50	50	53.0	52.1	106	104	70-136	2	20	
1,3-Dichlorobenzene	ug/L	<0.45	50	50	50.1	49.0	100	98	70-130	2	20	
1,4-Dichlorobenzene	ug/L	<0.43	50	50	49.5	48.1	99	96	70-130	3	20	
Benzene	ug/L	<0.50	50	50	54.0	52.5	108	105	70-137	3	20	
Bromodichloromethane	ug/L	<0.45	50	50	45.5	44.3	91	89	70-133	3	20	
Bromoform	ug/L	<0.23	50	50	40.3	38.0	81	76	57-130	6	20	
Bromomethane	ug/L	<0.43	50	50	46.8	46.2	94	92	41-148	1	20	
Carbon tetrachloride	ug/L	<0.37	50	50	46.8	45.3	94	91	70-154	3	20	
Chlorobenzene	ug/L	<0.36	50	50	48.5	48.0	97	96	70-130	1	20	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 816240 816241

Parameter	Units	4080331001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloroethane	ug/L	<0.44	50	50	53.6	51.5	107	103	70-140	4	20	
Chloroform	ug/L	<0.69	50	50	51.0	49.2	102	98	70-130	4	20	
Chloromethane	ug/L	<0.39	50	50	45.6	45.0	91	90	45-154	1	20	
cis-1,2-Dichloroethene	ug/L	<0.42	50	50	50.4	48.6	101	97	70-130	4	20	
cis-1,3-Dichloropropene	ug/L	<0.29	50	50	44.1	41.4	88	83	70-136	6	20	
Dibromochloromethane	ug/L	<1.9	50	50	43.5	41.8	87	84	70-130	4	20	
Dichlorodifluoromethane	ug/L	<0.40	50	50	37.6	36.6	75	73	10-157	3	20	
Ethylbenzene	ug/L	<0.50	50	50	51.0	49.9	102	100	70-130	2	20	
Isopropylbenzene (Cumene)	ug/L	<0.34	50	50	52.0	50.5	104	101	70-130	3	20	
m&p-Xylene	ug/L	<0.82	100	100	99.0	96.8	99	97	70-130	2	20	
Methyl-tert-butyl ether	ug/L	<0.49	50	50	51.0	49.0	102	98	59-141	4	20	
Methylene Chloride	ug/L	<0.36	50	50	54.0	51.7	108	103	70-130	4	20	
o-Xylene	ug/L	<0.50	50	50	47.9	47.4	96	95	70-130	1	20	
Styrene	ug/L	<0.35	50	50	44.8	44.6	90	89	35-164	1	20	
Tetrachloroethene	ug/L	<0.47	50	50	45.4	44.8	91	90	70-130	1	20	
Toluene	ug/L	<0.44	50	50	49.1	48.5	98	97	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	<0.37	50	50	54.2	52.0	108	104	70-130	4	20	
trans-1,3-Dichloropropene	ug/L	<0.26	50	50	42.3	39.9	85	80	55-137	6	20	
Trichloroethene	ug/L	<0.43	50	50	51.3	50.2	103	100	70-130	2	20	
Trichlorofluoromethane	ug/L	<0.48	50	50	53.6	52.1	107	104	50-150	3	20	
Vinyl chloride	ug/L	<0.18	50	50	50.8	49.4	102	99	59-144	3	20	
4-Bromofluorobenzene (S)	%						102	102	43-137			
Dibromofluoromethane (S)	%						106	104	70-130			
Toluene-d8 (S)	%						100	100	55-137			

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

QC Batch: MSV/20290 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4080362012, 4080362013, 4080362015

METHOD BLANK: 816412 Matrix: Water
Associated Lab Samples: 4080362012, 4080362013, 4080362015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.45	1.0	07/02/13 07:09	
1,1,1-Trichloroethane	ug/L	<0.44	1.0	07/02/13 07:09	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	07/02/13 07:09	
1,1,2-Trichloroethane	ug/L	<0.39	1.0	07/02/13 07:09	
1,1-Dichloroethane	ug/L	<0.28	1.0	07/02/13 07:09	
1,1-Dichloroethene	ug/L	<0.43	1.0	07/02/13 07:09	
1,1-Dichloropropene	ug/L	<0.51	1.0	07/02/13 07:09	
1,2,3-Trichlorobenzene	ug/L	<0.77	5.0	07/02/13 07:09	
1,2,3-Trichloropropane	ug/L	<0.47	1.0	07/02/13 07:09	
1,2,4-Trichlorobenzene	ug/L	<2.5	5.0	07/02/13 07:09	
1,2,4-Trimethylbenzene	ug/L	<0.57	5.0	07/02/13 07:09	
1,2-Dibromo-3-chloropropane	ug/L	<1.5	5.0	07/02/13 07:09	
1,2-Dibromoethane (EDB)	ug/L	<0.38	1.0	07/02/13 07:09	
1,2-Dichlorobenzene	ug/L	<0.44	1.0	07/02/13 07:09	
1,2-Dichloroethane	ug/L	<0.48	1.0	07/02/13 07:09	
1,2-Dichloropropane	ug/L	<0.50	1.0	07/02/13 07:09	
1,3,5-Trimethylbenzene	ug/L	<2.5	5.0	07/02/13 07:09	
1,3-Dichlorobenzene	ug/L	<0.45	1.0	07/02/13 07:09	
1,3-Dichloropropane	ug/L	<0.46	1.0	07/02/13 07:09	
1,4-Dichlorobenzene	ug/L	<0.43	1.0	07/02/13 07:09	
2,2-Dichloropropane	ug/L	<0.37	1.0	07/02/13 07:09	
2-Chlorotoluene	ug/L	<0.48	1.0	07/02/13 07:09	
4-Chlorotoluene	ug/L	<0.48	1.0	07/02/13 07:09	
Benzene	ug/L	<0.50	1.0	07/02/13 07:09	
Bromobenzene	ug/L	<0.48	1.0	07/02/13 07:09	
Bromochloromethane	ug/L	<0.49	1.0	07/02/13 07:09	
Bromodichloromethane	ug/L	<0.45	1.0	07/02/13 07:09	
Bromoform	ug/L	<0.23	1.0	07/02/13 07:09	
Bromomethane	ug/L	<0.43	5.0	07/02/13 07:09	
Carbon tetrachloride	ug/L	<0.37	1.0	07/02/13 07:09	
Chlorobenzene	ug/L	<0.36	1.0	07/02/13 07:09	
Chloroethane	ug/L	<0.44	1.0	07/02/13 07:09	
Chloroform	ug/L	<0.69	5.0	07/02/13 07:09	
Chloromethane	ug/L	<0.39	1.0	07/02/13 07:09	
cis-1,2-Dichloroethene	ug/L	<0.42	1.0	07/02/13 07:09	
cis-1,3-Dichloropropene	ug/L	<0.29	1.0	07/02/13 07:09	
Dibromochloromethane	ug/L	<1.9	5.0	07/02/13 07:09	
Dibromomethane	ug/L	<0.48	1.0	07/02/13 07:09	
Dichlorodifluoromethane	ug/L	<0.40	1.0	07/02/13 07:09	
Diisopropyl ether	ug/L	<0.50	1.0	07/02/13 07:09	
Ethylbenzene	ug/L	<0.50	1.0	07/02/13 07:09	
Hexachloro-1,3-butadiene	ug/L	<1.3	5.0	07/02/13 07:09	
Isopropylbenzene (Cumene)	ug/L	<0.34	1.0	07/02/13 07:09	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

METHOD BLANK: 816412 Matrix: Water

Associated Lab Samples: 4080362012, 4080362013, 4080362015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/L	<0.82	2.0	07/02/13 07:09	
Methyl-tert-butyl ether	ug/L	<0.49	1.0	07/02/13 07:09	
Methylene Chloride	ug/L	<0.36	1.0	07/02/13 07:09	
n-Butylbenzene	ug/L	<0.40	1.0	07/02/13 07:09	
n-Propylbenzene	ug/L	<0.50	1.0	07/02/13 07:09	
Naphthalene	ug/L	<2.5	5.0	07/02/13 07:09	
o-Xylene	ug/L	<0.50	1.0	07/02/13 07:09	
p-Isopropyltoluene	ug/L	<0.40	1.0	07/02/13 07:09	
sec-Butylbenzene	ug/L	<0.60	5.0	07/02/13 07:09	
Styrene	ug/L	<0.35	1.0	07/02/13 07:09	
tert-Butylbenzene	ug/L	<0.42	1.0	07/02/13 07:09	
Tetrachloroethene	ug/L	<0.47	1.0	07/02/13 07:09	
Toluene	ug/L	<0.44	1.0	07/02/13 07:09	
trans-1,2-Dichloroethene	ug/L	<0.37	1.0	07/02/13 07:09	
trans-1,3-Dichloropropene	ug/L	<0.26	1.0	07/02/13 07:09	
Trichloroethene	ug/L	<0.43	1.0	07/02/13 07:09	
Trichlorofluoromethane	ug/L	<0.48	1.0	07/02/13 07:09	
Vinyl chloride	ug/L	<0.18	1.0	07/02/13 07:09	
4-Bromofluorobenzene (S)	%	96	43-137	07/02/13 07:09	
Dibromofluoromethane (S)	%	103	70-130	07/02/13 07:09	
Toluene-d8 (S)	%	98	55-137	07/02/13 07:09	

LABORATORY CONTROL SAMPLE & LCSD: 816413 816414

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	58.2	58.4	116	117	70-136	0	20	
1,1,2,2-Tetrachloroethane	ug/L	50	50.2	52.5	100	105	70-130	5	20	
1,1,2-Trichloroethane	ug/L	50	53.1	53.6	106	107	70-130	1	20	
1,1-Dichloroethane	ug/L	50	57.3	57.3	115	115	70-146	0	20	
1,1-Dichloroethene	ug/L	50	58.5	59.4	117	119	70-130	2	20	
1,2,4-Trichlorobenzene	ug/L	50	50.1	52.5	100	105	70-130	5	20	
1,2-Dibromo-3-chloropropane	ug/L	50	53.1	55.4	106	111	46-150	4	20	
1,2-Dibromoethane (EDB)	ug/L	50	55.9	55.7	112	111	70-130	0	20	
1,2-Dichlorobenzene	ug/L	50	52.7	52.1	105	104	70-130	1	20	
1,2-Dichloroethane	ug/L	50	57.8	57.1	116	114	70-144	1	20	
1,2-Dichloropropane	ug/L	50	53.6	55.5	107	111	70-136	3	20	
1,3-Dichlorobenzene	ug/L	50	52.6	52.8	105	106	70-130	0	20	
1,4-Dichlorobenzene	ug/L	50	51.7	53.5	103	107	70-130	3	20	
Benzene	ug/L	50	56.8	56.8	114	114	70-137	0	20	
Bromodichloromethane	ug/L	50	55.3	55.8	111	112	70-133	1	20	
Bromoform	ug/L	50	58.5	59.4	117	119	59-130	2	20	
Bromomethane	ug/L	50	24.3	27.1	49	54	41-148	11	20	
Carbon tetrachloride	ug/L	50	54.6	56.7	109	113	70-154	4	20	
Chlorobenzene	ug/L	50	54.5	53.7	109	107	70-130	1	20	
Chloroethane	ug/L	50	51.5	54.5	103	109	70-139	6	20	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

LABORATORY CONTROL SAMPLE & LCSD: 816413 816414

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloroform	ug/L	50	57.0	57.1	114	114	70-130	0	20	
Chloromethane	ug/L	50	45.4	47.5	91	95	45-154	4	20	
cis-1,2-Dichloroethene	ug/L	50	54.6	55.1	109	110	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	50	54.2	55.8	108	112	70-136	3	20	
Dibromochloromethane	ug/L	50	57.3	56.8	115	114	70-130	1	20	
Dichlorodifluoromethane	ug/L	50	52.7	52.0	105	104	20-157	1	20	
Ethylbenzene	ug/L	50	55.0	54.4	110	109	70-130	1	20	
Isopropylbenzene (Cumene)	ug/L	50	55.6	54.9	111	110	70-130	1	20	
m&p-Xylene	ug/L	100	115	111	115	111	70-130	3	20	
Methyl-tert-butyl ether	ug/L	50	54.2	56.5	108	113	59-141	4	20	
Methylene Chloride	ug/L	50	55.4	57.4	111	115	70-130	3	20	
o-Xylene	ug/L	50	55.7	53.8	111	108	70-130	3	20	
Styrene	ug/L	50	55.9	54.6	112	109	70-130	2	20	
Tetrachloroethene	ug/L	50	55.2	54.7	110	109	70-130	1	20	
Toluene	ug/L	50	54.1	53.2	108	106	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	50	56.6	58.0	113	116	70-130	2	20	
trans-1,3-Dichloropropene	ug/L	50	55.9	55.6	112	111	55-135	1	20	
Trichloroethene	ug/L	50	55.7	56.4	111	113	70-130	1	20	
Trichlorofluoromethane	ug/L	50	59.7	60.8	119	122	50-150	2	20	
Vinyl chloride	ug/L	50	54.3	55.2	109	110	61-143	2	20	
4-Bromofluorobenzene (S)	%				106	105	43-137			
Dibromofluoromethane (S)	%				102	101	70-130			
Toluene-d8 (S)	%				98	97	55-137			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 816720 816721

Parameter	Units	4080399006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.44	50	50	58.9	59.2	118	118	70-136	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	47.6	48.7	95	97	70-130	2	20	
1,1,2-Trichloroethane	ug/L	<0.39	50	50	54.4	52.7	109	105	70-130	3	20	
1,1-Dichloroethane	ug/L	<0.28	50	50	56.9	57.0	114	114	70-146	0	20	
1,1-Dichloroethene	ug/L	<0.43	50	50	60.6	60.1	121	120	70-130	1	20	
1,2,4-Trichlorobenzene	ug/L	<2.5	50	50	47.6	47.7	95	95	70-130	0	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.5	50	50	48.3	50.6	97	101	46-150	5	20	
1,2-Dibromoethane (EDB)	ug/L	<0.38	50	50	54.3	53.5	109	107	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.44	50	50	50.9	50.1	102	100	70-130	2	20	
1,2-Dichloroethane	ug/L	<0.48	50	50	56.5	58.0	113	116	70-146	3	20	
1,2-Dichloropropane	ug/L	<0.50	50	50	56.9	55.4	114	111	70-136	3	20	
1,3-Dichlorobenzene	ug/L	<0.45	50	50	50.6	51.2	101	102	70-130	1	20	
1,4-Dichlorobenzene	ug/L	<0.43	50	50	50.6	49.3	101	99	70-130	3	20	
Benzene	ug/L	<0.50	50	50	55.7	56.4	111	113	70-137	1	20	
Bromodichloromethane	ug/L	<0.45	50	50	56.8	55.6	114	111	70-133	2	20	
Bromoform	ug/L	<0.23	50	50	58.7	55.6	117	111	57-130	6	20	
Bromomethane	ug/L	<0.43	50	50	28.9	25.5	58	51	41-148	12	20	
Carbon tetrachloride	ug/L	<0.37	50	50	61.3	61.1	123	122	70-154	0	20	
Chlorobenzene	ug/L	<0.36	50	50	55.7	53.9	111	108	70-130	3	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 816720 816721

Parameter	Units	4080399006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloroethane	ug/L	<0.44	50	50	53.1	54.5	106	109	70-140	3	20	
Chloroform	ug/L	<0.69	50	50	57.4	57.1	115	114	70-130	1	20	
Chloromethane	ug/L	<0.39	50	50	46.3	47.8	93	96	45-154	3	20	
cis-1,2-Dichloroethene	ug/L	<0.42	50	50	54.8	55.1	110	110	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	<0.29	50	50	54.9	52.6	110	105	70-136	4	20	
Dibromochloromethane	ug/L	<1.9	50	50	57.7	55.1	115	110	70-130	5	20	
Dichlorodifluoromethane	ug/L	<0.40	50	50	49.7	53.9	99	108	10-157	8	20	
Ethylbenzene	ug/L	<0.50	50	50	56.0	53.8	112	108	70-130	4	20	
Isopropylbenzene (Cumene)	ug/L	<0.34	50	50	55.3	53.2	111	106	70-130	4	20	
m&p-Xylene	ug/L	<0.82	100	100	114	108	114	108	70-130	5	20	
Methyl-tert-butyl ether	ug/L	<0.49	50	50	53.9	52.8	108	106	59-141	2	20	
Methylene Chloride	ug/L	<0.36	50	50	57.3	56.2	115	112	70-130	2	20	
o-Xylene	ug/L	<0.50	50	50	55.1	53.4	110	107	70-130	3	20	
Styrene	ug/L	<0.35	50	50	54.2	54.8	108	110	35-164	1	20	
Tetrachloroethene	ug/L	<0.47	50	50	55.8	53.3	112	107	70-130	5	20	
Toluene	ug/L	<0.44	50	50	54.9	52.6	110	105	70-130	4	20	
trans-1,2-Dichloroethene	ug/L	<0.37	50	50	57.6	58.6	115	117	70-130	2	20	
trans-1,3-Dichloropropene	ug/L	<0.26	50	50	55.4	52.8	111	106	55-137	5	20	
Trichloroethene	ug/L	<0.43	50	50	55.8	56.3	112	113	70-130	1	20	
Trichlorofluoromethane	ug/L	<0.48	50	50	59.6	59.4	119	119	50-150	0	20	
Vinyl chloride	ug/L	<0.18	50	50	54.9	55.8	110	112	59-144	2	20	
4-Bromofluorobenzene (S)	%						106	102	43-137			
Dibromofluoromethane (S)	%						103	104	70-130			
Toluene-d8 (S)	%						98	94	55-137			

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

QC Batch: OEXT/18833
QC Batch Method: EPA 3541
Analysis Method: EPA 8082
Analysis Description: 8082 GCS PCB
Associated Lab Samples: 4080362003

METHOD BLANK: 816408 Matrix: Solid
Associated Lab Samples: 4080362003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<25.0	50.0	07/01/13 14:54	
PCB-1221 (Aroclor 1221)	ug/kg	<25.0	50.0	07/01/13 14:54	
PCB-1232 (Aroclor 1232)	ug/kg	<25.0	50.0	07/01/13 14:54	
PCB-1242 (Aroclor 1242)	ug/kg	<25.0	50.0	07/01/13 14:54	
PCB-1248 (Aroclor 1248)	ug/kg	<25.0	50.0	07/01/13 14:54	
PCB-1254 (Aroclor 1254)	ug/kg	<25.0	50.0	07/01/13 14:54	
PCB-1260 (Aroclor 1260)	ug/kg	<25.0	50.0	07/01/13 14:54	
Decachlorobiphenyl (S)	%	101	48-130	07/01/13 14:54	
Tetrachloro-m-xylene (S)	%	87	40-130	07/01/13 14:54	

LABORATORY CONTROL SAMPLE: 816409

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<25.0			
PCB-1221 (Aroclor 1221)	ug/kg		<25.0			
PCB-1232 (Aroclor 1232)	ug/kg		<25.0			
PCB-1242 (Aroclor 1242)	ug/kg		<25.0			
PCB-1248 (Aroclor 1248)	ug/kg		<25.0			
PCB-1254 (Aroclor 1254)	ug/kg		<25.0			
PCB-1260 (Aroclor 1260)	ug/kg	500	492	98	70-130	
Decachlorobiphenyl (S)	%			103	48-130	
Tetrachloro-m-xylene (S)	%			90	40-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 816410 816411

Parameter	Units	4080387001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<208			<208	<208					31	
PCB-1221 (Aroclor 1221)	ug/kg	<208			<208	<208					31	
PCB-1232 (Aroclor 1232)	ug/kg	<208			<208	<208					31	
PCB-1242 (Aroclor 1242)	ug/kg	4120			4700	4950				5	31	
PCB-1248 (Aroclor 1248)	ug/kg	<208			<208	<208					31	
PCB-1254 (Aroclor 1254)	ug/kg	<208			<208	<208					31	
PCB-1260 (Aroclor 1260)	ug/kg	<208	831	831	835	771	101	93	40-149	8	31	
Decachlorobiphenyl (S)	%						75	70	48-130			
Tetrachloro-m-xylene (S)	%						92	88	40-130			

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

QC Batch: OEXT/18842
QC Batch Method: EPA 3546
Analysis Method: EPA 8270
Analysis Description: 8270 Solid MSSV Microwave
Associated Lab Samples: 4080362003

METHOD BLANK: 816803
Matrix: Solid
Associated Lab Samples: 4080362003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	<9.2	167	07/02/13 08:58	
1,2-Dichlorobenzene	ug/kg	<19.1	167	07/02/13 08:58	
1,3-Dichlorobenzene	ug/kg	<19.6	167	07/02/13 08:58	
1,4-Dichlorobenzene	ug/kg	<21.5	167	07/02/13 08:58	
2,2'-Oxybis(1-chloropropane)	ug/kg	<21.3	167	07/02/13 08:58	
2,4,5-Trichlorophenol	ug/kg	<11.0	167	07/02/13 08:58	
2,4,6-Trichlorophenol	ug/kg	<18.4	167	07/02/13 08:58	
2,4-Dichlorophenol	ug/kg	<14.2	167	07/02/13 08:58	
2,4-Dimethylphenol	ug/kg	<83.3	167	07/02/13 08:58	
2,4-Dinitrophenol	ug/kg	<122	667	07/02/13 08:58	
2,4-Dinitrotoluene	ug/kg	<13.1	167	07/02/13 08:58	
2,6-Dinitrotoluene	ug/kg	<19.3	167	07/02/13 08:58	
2-Chloronaphthalene	ug/kg	<17.4	167	07/02/13 08:58	
2-Chlorophenol	ug/kg	<83.3	167	07/02/13 08:58	
2-Methylnaphthalene	ug/kg	<18.4	167	07/02/13 08:58	
2-Methylphenol(o-Cresol)	ug/kg	<83.3	167	07/02/13 08:58	
2-Nitroaniline	ug/kg	<12.1	167	07/02/13 08:58	
2-Nitrophenol	ug/kg	<19.9	167	07/02/13 08:58	
3&4-Methylphenol(m&p Cresol)	ug/kg	<17.4	167	07/02/13 08:58	
3,3'-Dichlorobenzidine	ug/kg	<12.1	167	07/02/13 08:58	
3-Nitroaniline	ug/kg	<13.2	167	07/02/13 08:58	
4,6-Dinitro-2-methylphenol	ug/kg	<83.3	167	07/02/13 08:58	
4-Bromophenylphenyl ether	ug/kg	<17.7	167	07/02/13 08:58	
4-Chloro-3-methylphenol	ug/kg	<17.0	167	07/02/13 08:58	
4-Chloroaniline	ug/kg	<83.3	333	07/02/13 08:58	
4-Chlorophenylphenyl ether	ug/kg	<83.3	167	07/02/13 08:58	
4-Nitroaniline	ug/kg	<83.3	167	07/02/13 08:58	
4-Nitrophenol	ug/kg	<32.9	167	07/02/13 08:58	
Acenaphthene	ug/kg	<83.3	167	07/02/13 08:58	
Acenaphthylene	ug/kg	<17.9	167	07/02/13 08:58	
Anthracene	ug/kg	<83.3	167	07/02/13 08:58	
Benzo(a)anthracene	ug/kg	<18.8	167	07/02/13 08:58	
Benzo(a)pyrene	ug/kg	<20.2	167	07/02/13 08:58	
Benzo(b)fluoranthene	ug/kg	<19.7	167	07/02/13 08:58	
Benzo(g,h,i)perylene	ug/kg	<83.3	167	07/02/13 08:58	
Benzo(k)fluoranthene	ug/kg	<26.3	167	07/02/13 08:58	
bis(2-Chloroethoxy)methane	ug/kg	<20.1	167	07/02/13 08:58	
bis(2-Chloroethyl) ether	ug/kg	<83.3	167	07/02/13 08:58	
bis(2-Ethylhexyl)phthalate	ug/kg	<34.1	167	07/02/13 08:58	
Butylbenzylphthalate	ug/kg	<37.5	167	07/02/13 08:58	
Carbazole	ug/kg	<17.2	167	07/02/13 08:58	
Chrysene	ug/kg	<24.3	167	07/02/13 08:58	
Di-n-butylphthalate	ug/kg	<27.9	167	07/02/13 08:58	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

METHOD BLANK: 816803 Matrix: Solid

Associated Lab Samples: 4080362003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Di-n-octylphthalate	ug/kg	<18.2	167	07/02/13 08:58	
Dibenz(a,h)anthracene	ug/kg	<30.5	167	07/02/13 08:58	
Dibenzofuran	ug/kg	<83.3	167	07/02/13 08:58	
Diethylphthalate	ug/kg	<83.3	167	07/02/13 08:58	
Dimethylphthalate	ug/kg	<17.5	167	07/02/13 08:58	
Fluoranthene	ug/kg	<29.5	167	07/02/13 08:58	
Fluorene	ug/kg	<8.4	167	07/02/13 08:58	
Hexachloro-1,3-butadiene	ug/kg	<21.5	167	07/02/13 08:58	
Hexachlorobenzene	ug/kg	<9.8	167	07/02/13 08:58	
Hexachlorocyclopentadiene	ug/kg	<83.3	167	07/02/13 08:58	
Hexachloroethane	ug/kg	<21.1	167	07/02/13 08:58	
Indeno(1,2,3-cd)pyrene	ug/kg	<22.4	167	07/02/13 08:58	
Isophorone	ug/kg	<83.3	167	07/02/13 08:58	
N-Nitroso-di-n-propylamine	ug/kg	<19.8	167	07/02/13 08:58	
N-Nitrosodiphenylamine	ug/kg	<22.9	167	07/02/13 08:58	
Naphthalene	ug/kg	<19.5	167	07/02/13 08:58	
Nitrobenzene	ug/kg	<19.1	167	07/02/13 08:58	
Pentachlorophenol	ug/kg	<83.3	330	07/02/13 08:58	
Phenanthrene	ug/kg	<83.3	167	07/02/13 08:58	
Phenol	ug/kg	<19.8	167	07/02/13 08:58	
Pyrene	ug/kg	<40.6	167	07/02/13 08:58	
2,4,6-Tribromophenol (S)	%	98	18-130	07/02/13 08:58	
2-Fluorobiphenyl (S)	%	80	53-130	07/02/13 08:58	
2-Fluorophenol (S)	%	78	28-130	07/02/13 08:58	
Nitrobenzene-d5 (S)	%	88	40-130	07/02/13 08:58	
Phenol-d6 (S)	%	81	30-130	07/02/13 08:58	
Terphenyl-d14 (S)	%	107	36-162	07/02/13 08:58	

LABORATORY CONTROL SAMPLE: 816804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1670	1430	86	56-130	
1,2-Dichlorobenzene	ug/kg	1670	1430	86	54-130	
1,3-Dichlorobenzene	ug/kg	1670	1430	86	50-130	
1,4-Dichlorobenzene	ug/kg	1670	1450	87	51-130	
2,2'-Oxybis(1-chloropropane)	ug/kg	1670	1440	86	56-130	
2,4,5-Trichlorophenol	ug/kg	1670	1480	89	66-130	
2,4,6-Trichlorophenol	ug/kg	1670	1500	90	68-130	
2,4-Dichlorophenol	ug/kg	1670	1580	95	66-130	
2,4-Dimethylphenol	ug/kg	1670	1850	111	66-130	
2,4-Dinitrophenol	ug/kg	1670	2100	126	11-130	
2,4-Dinitrotoluene	ug/kg	1670	2010	121	56-130	
2,6-Dinitrotoluene	ug/kg	1670	1860	111	63-130	
2-Chloronaphthalene	ug/kg	1670	1440	86	64-130	
2-Chlorophenol	ug/kg	1670	1440	87	58-130	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

LABORATORY CONTROL SAMPLE: 816804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Methylnaphthalene	ug/kg	1670	1540	92	63-130	
2-Methylphenol(o-Cresol)	ug/kg	1670	1570	94	65-130	
2-Nitroaniline	ug/kg	1670	1570	94	71-130	
2-Nitrophenol	ug/kg	1670	1490	90	63-130	
3&4-Methylphenol(m&p Cresol)	ug/kg	1670	1500	90	63-130	
3,3'-Dichlorobenzidine	ug/kg	1670	1420	85	56-139	
3-Nitroaniline	ug/kg	1670	1650	99	64-130	
4,6-Dinitro-2-methylphenol	ug/kg	1670	1970	118	33-130	
4-Bromophenylphenyl ether	ug/kg	1670	1750	105	66-130	
4-Chloro-3-methylphenol	ug/kg	1670	1780	107	66-130	
4-Chloroaniline	ug/kg	1670	1590	95	69-130	
4-Chlorophenylphenyl ether	ug/kg	1670	1620	97	68-130	
4-Nitroaniline	ug/kg	1670	1870	112	48-148	
4-Nitrophenol	ug/kg	1670	1860	112	51-133	
Acenaphthene	ug/kg	1670	1530	92	69-130	
Acenaphthylene	ug/kg	1670	1510	91	70-130	
Anthracene	ug/kg	1670	1640	98	70-130	
Benzo(a)anthracene	ug/kg	1670	1500	90	70-130	
Benzo(a)pyrene	ug/kg	1670	1610	97	62-130	
Benzo(b)fluoranthene	ug/kg	1670	1520	91	59-130	
Benzo(g,h,i)perylene	ug/kg	1670	1290	77	56-130	
Benzo(k)fluoranthene	ug/kg	1670	1950	117	64-130	
bis(2-Chloroethoxy)methane	ug/kg	1670	1500	90	66-130	
bis(2-Chloroethyl) ether	ug/kg	1670	1580	95	58-130	
bis(2-Ethylhexyl)phthalate	ug/kg	1670	1440	87	51-130	
Butylbenzylphthalate	ug/kg	1670	1500	90	57-130	
Carbazole	ug/kg	1670	1830	110	68-130	
Chrysene	ug/kg	1670	1380	83	70-130	
Di-n-butylphthalate	ug/kg	1670	1570	94	55-130	
Di-n-octylphthalate	ug/kg	1670	1260	76	47-130	
Dibenz(a,h)anthracene	ug/kg	1670	480	29	54-130	L0
Dibenzofuran	ug/kg	1670	1580	95	67-130	
Diethylphthalate	ug/kg	1670	1570	94	60-130	
Dimethylphthalate	ug/kg	1670	1510	91	60-130	
Fluoranthene	ug/kg	1670	1610	96	60-130	
Fluorene	ug/kg	1670	1610	96	70-130	
Hexachloro-1,3-butadiene	ug/kg	1670	1490	90	53-130	
Hexachlorobenzene	ug/kg	1670	1690	102	62-130	
Hexachlorocyclopentadiene	ug/kg	1670	1110	67	34-130	
Hexachloroethane	ug/kg	1670	1460	88	50-130	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	1470	88	44-130	
Isophorone	ug/kg	1670	1640	98	57-130	
N-Nitroso-di-n-propylamine	ug/kg	1670	1650	99	61-130	
N-Nitrosodiphenylamine	ug/kg	1670	1710	103	70-135	
Naphthalene	ug/kg	1670	1440	87	63-130	
Nitrobenzene	ug/kg	1670	1560	93	59-130	
Pentachlorophenol	ug/kg	1670	1770	106	43-130	
Phenanthrene	ug/kg	1670	1650	99	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

LABORATORY CONTROL SAMPLE: 816804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenol	ug/kg	1670	1500	90	62-130	
Pyrene	ug/kg	1670	1740	104	63-130	
2,4,6-Tribromophenol (S)	%			104	18-130	
2-Fluorobiphenyl (S)	%			82	53-130	
2-Fluorophenol (S)	%			78	28-130	
Nitrobenzene-d5 (S)	%			85	40-130	
Phenol-d6 (S)	%			82	30-130	
Terphenyl-d14 (S)	%			110	36-162	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 816805 816806

Parameter	Units	4080362003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trichlorobenzene	ug/kg	<9.7	1760	1760	1470	1480	84	84	47-130	0	26	
1,2-Dichlorobenzene	ug/kg	<20.1	1760	1760	1540	1500	87	86	49-130	2	33	
1,3-Dichlorobenzene	ug/kg	<20.6	1760	1760	1530	1510	87	86	46-130	1	34	
1,4-Dichlorobenzene	ug/kg	<22.6	1760	1760	1550	1530	88	87	48-130	1	34	
2,2'-Oxybis(1-chloropropane)	ug/kg	<22.5	1760	1760	1570	1550	89	89	43-130	1	26	
2,4,5-Trichlorophenol	ug/kg	<11.6	1760	1760	1680	1550	95	89	16-130	8	21	
2,4,6-Trichlorophenol	ug/kg	<19.4	1760	1760	1520	1470	87	84	11-132	4	33	
2,4-Dichlorophenol	ug/kg	<15.0	1760	1760	1580	1560	90	89	32-130	1	31	
2,4-Dimethylphenol	ug/kg	<87.8	1760	1760	1900	1860	108	106	17-139	3	29	
2,4-Dinitrophenol	ug/kg	<129	1760	1760	435J	414J	25	24	10-130		40	
2,4-Dinitrotoluene	ug/kg	<13.8	1760	1760	2040	1890	116	108	22-146	8	42	
2,6-Dinitrotoluene	ug/kg	<20.3	1760	1760	1880	1840	107	105	30-136	2	38	
2-Chloronaphthalene	ug/kg	<18.3	1760	1760	1540	1480	87	84	39-130	4	25	
2-Chlorophenol	ug/kg	<87.8	1760	1760	1580	1570	90	89	39-130	1	31	
2-Methylnaphthalene	ug/kg	<19.4	1760	1760	1620	1590	93	91	37-130	2	29	
2-Methylphenol(o-Cresol)	ug/kg	<87.8	1760	1760	1740	1690	99	96	33-130	3	29	
2-Nitroaniline	ug/kg	<12.7	1760	1760	1640	1540	93	88	33-135	6	33	
2-Nitrophenol	ug/kg	<21.0	1760	1760	1630	1600	93	91	22-130	2	41	
3&4-Methylphenol(m&p Cresol)	ug/kg	<18.3	1760	1760	1680	1670	96	95	28-130	1	29	
3,3'-Dichlorobenzidine	ug/kg	<12.7	1760	1760	1740	1650	99	94	10-173	5	50	
3-Nitroaniline	ug/kg	<13.9	1760	1760	1800	1640	103	94	10-166	9	40	
4,6-Dinitro-2-methylphenol	ug/kg	<87.8	1760	1760	1450	1310	83	75	10-130	10	50	
4-Bromophenylphenyl ether	ug/kg	<18.6	1760	1760	1830	1830	104	104	27-130	0	31	
4-Chloro-3-methylphenol	ug/kg	<17.9	1760	1760	1790	1740	102	99	29-130	3	31	
4-Chloroaniline	ug/kg	<87.8	1760	1760	1600	1570	91	90	20-132	2	36	
4-Chlorophenylphenyl ether	ug/kg	<87.8	1760	1760	1690	1670	96	95	35-130	1	34	
4-Nitroaniline	ug/kg	<87.8	1760	1760	2000	1720	114	98	10-178	15	37	
4-Nitrophenol	ug/kg	<34.6	1760	1760	1420	1160	81	66	10-142	20	47	
Acenaphthene	ug/kg	<87.8	1760	1760	1580	1570	90	90	57-130	0	34	
Acenaphthylene	ug/kg	<18.8	1760	1760	1620	1580	93	90	38-130	3	34	
Anthracene	ug/kg	<87.8	1760	1760	1760	1690	100	96	29-130	4	38	
Benzo(a)anthracene	ug/kg	<19.8	1760	1760	1600	1520	91	86	19-132	6	42	
Benzo(a)pyrene	ug/kg	<21.3	1760	1760	1740	1670	99	95	11-131	4	38	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 816805 816806

Parameter	Units	4080362003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzo(b)fluoranthene	ug/kg	<20.7	1760	1760	1750	1680	100	96	10-133	4	40	
Benzo(g,h,i)perylene	ug/kg	<87.8	1760	1760	1470	1350	84	77	14-130	9	47	
Benzo(k)fluoranthene	ug/kg	<27.7	1760	1760	1770	1820	101	104	18-136	3	42	
bis(2-Chloroethoxy)methane	ug/kg	<21.2	1760	1760	1570	1560	89	89	55-130	1	22	
bis(2-Chloroethyl) ether	ug/kg	<87.8	1760	1760	1750	1690	99	96	47-130	4	24	
bis(2-Ethylhexyl)phthalate	ug/kg	<35.9	1760	1760	1490	1470	85	84	10-163	1	34	
Butylbenzylphthalate	ug/kg	<39.5	1760	1760	1570	1580	89	90	10-163	1	39	
Carbazole	ug/kg	<18.1	1760	1760	2000	1850	114	105	16-144	8	32	
Chrysene	ug/kg	<25.6	1760	1760	1560	1500	89	85	25-130	4	41	
Di-n-butylphthalate	ug/kg	<29.4	1760	1760	1690	1650	96	94	19-142	3	33	
Di-n-octylphthalate	ug/kg	<19.2	1760	1760	1430	1290	81	73	10-160	11	42	
Dibenz(a,h)anthracene	ug/kg	<32.2	1760	1760	544	509	31	29	11-130	7	38	
Dibenzofuran	ug/kg	<87.8	1760	1760	1630	1550	93	89	32-130	5	35	
Diethylphthalate	ug/kg	<87.8	1760	1760	1630	1600	93	91	27-134	2	36	
Dimethylphthalate	ug/kg	<18.4	1760	1760	1620	1550	92	88	30-131	4	37	
Fluoranthene	ug/kg	<31.1	1760	1760	1770	1600	101	91	20-143	10	40	
Fluorene	ug/kg	<8.8	1760	1760	1680	1610	96	92	36-130	5	32	
Hexachloro-1,3-butadiene	ug/kg	<22.6	1760	1760	1580	1550	90	88	40-130	2	21	
Hexachlorobenzene	ug/kg	<10.3	1760	1760	1790	1790	102	102	28-130	0	34	
Hexachlorocyclopentadiene	ug/kg	<87.8	1760	1760	1090	1080	62	62	10-130	1	45	
Hexachloroethane	ug/kg	<22.2	1760	1760	1550	1540	88	88	32-130	0	37	
Indeno(1,2,3-cd)pyrene	ug/kg	<23.5	1760	1760	1490	1340	85	76	10-130	10	48	
Isophorone	ug/kg	<87.8	1760	1760	1750	1710	100	98	49-130	2	20	
N-Nitroso-di-n-propylamine	ug/kg	<20.8	1760	1760	1780	1840	101	105	55-130	3	31	
N-Nitrosodiphenylamine	ug/kg	<24.1	1760	1760	1960	2010	112	114	37-147	2	29	
Naphthalene	ug/kg	<20.5	1760	1760	1540	1510	88	86	46-130	2	27	
Nitrobenzene	ug/kg	<20.2	1760	1760	1700	1690	97	96	47-130	1	26	
Pentachlorophenol	ug/kg	<87.8	1760	1760	1500	1480	85	84	10-130	1	50	
Phenanthrene	ug/kg	<87.8	1760	1760	1760	1740	100	99	26-131	1	35	
Phenol	ug/kg	<20.9	1760	1760	1730	1650	99	94	39-130	5	30	
Pyrene	ug/kg	<42.7	1760	1760	1690	1840	96	105	10-155	9	44	
2,4,6-Tribromophenol (S)	%						100	98	18-130			
2-Fluorobiphenyl (S)	%						85	85	53-130			
2-Fluorophenol (S)	%						79	77	28-130			
Nitrobenzene-d5 (S)	%						87	89	40-130			
Phenol-d6 (S)	%						83	84	30-130			
Terphenyl-d14 (S)	%						103	112	36-162			

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

QC Batch: PMST/8627
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 4080362014

SAMPLE DUPLICATE: 816732

Parameter	Units	4080362014 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.1	11.4	2	10	

Pace Analytical Services, Inc.
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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

QC Batch: PMST/8628
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 4080362001, 4080362002, 4080362003, 4080362004

SAMPLE DUPLICATE: 816753

Parameter	Units	4080259001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.3	12.4	0	10	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

QC Batch: PMST/8629 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 4080362005, 4080362006, 4080362007, 4080362016

SAMPLE DUPLICATE: 816766

Parameter	Units	4080379005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	2.6	2.6	0	10	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1q	Due to excessive soil weight, sample could not be brought to 1:1 MeOH ratio.
2q	Filter Blank for sample 4080362015.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
P4	Sample field preservation does not meet EPA or method recommendations for this analysis.
W	Non-detect results are reported on a wet weight basis.

Pace Analytical Services, Inc.
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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 204639 CITY OF MADISON-CUB FOO
Pace Project No.: 4080362

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4080362003	**GP-4 (1.5-5')**	EPA 3541	OEXT/18833	EPA 8082	GCSV/9793
4080362003	**GP-4 (1.5-5')**	EPA 3050	MPRP/8728	EPA 6010	ICP/7743
4080362006	**GP-6 (7.5-10')**	EPA 3050	MPRP/8728	EPA 6010	ICP/7743
4080362007	**GP-7 (0.5-3')**	EPA 3050	MPRP/8728	EPA 6010	ICP/7743
4080362014	**GP-7 (12.5-15')**	EPA 3050	MPRP/8728	EPA 6010	ICP/7743
4080362012	**TW-6**	EPA 6010	ICP/7745		
4080362013	**TW-7**	EPA 6010	ICP/7745		
4080362015	**TW-4**	EPA 6010	ICP/7773		
4080362015	**TW-4**	EPA 7470	MERP/3742	EPA 7470	MERC/4691
4080362003	**GP-4 (1.5-5')**	EPA 7471	MERP/3727	EPA 7471	MERC/4665
4080362003	**GP-4 (1.5-5')**	EPA 3546	OEXT/18842	EPA 8270	MSSV/5791
4080362001	**GP-1 (5-7')**	EPA 5035/5030B	MSV/20306	EPA 8260	MSV/20307
4080362002	**GP-2 (8-10')**	EPA 5035/5030B	MSV/20306	EPA 8260	MSV/20307
4080362003	**GP-4 (1.5-5')**	EPA 5035/5030B	MSV/20306	EPA 8260	MSV/20307
4080362004	**GP-5 (3.5-5')**	EPA 5035/5030B	MSV/20306	EPA 8260	MSV/20307
4080362005	**GP-5 (17-19')**	EPA 5035/5030B	MSV/20306	EPA 8260	MSV/20307
4080362006	**GP-6 (7.5-10')**	EPA 5035/5030B	MSV/20306	EPA 8260	MSV/20307
4080362007	**GP-7 (0.5-3')**	EPA 5035/5030B	MSV/20306	EPA 8260	MSV/20307
4080362014	**GP-7 (12.5-15')**	EPA 5035/5030B	MSV/20306	EPA 8260	MSV/20307
4080362016	**GP-1 (18-20')**	EPA 5035/5030B	MSV/20306	EPA 8260	MSV/20307
4080362008	**TW-1**	EPA 8260	MSV/20284		
4080362009	**TW-2**	EPA 8260	MSV/20284		
4080362010	**TW-3**	EPA 8260	MSV/20284		
4080362011	**TW-5**	EPA 8260	MSV/20284		
4080362012	**TW-6**	EPA 8260	MSV/20290		
4080362013	**TW-7**	EPA 8260	MSV/20290		
4080362015	**TW-4**	EPA 8260	MSV/20290		
4080362017	**TRIP BLANK**	EPA 8260	MSV/20284		
4080362001	**GP-1 (5-7')**	ASTM D2974-87	PMST/8628		
4080362002	**GP-2 (8-10')**	ASTM D2974-87	PMST/8628		
4080362003	**GP-4 (1.5-5')**	ASTM D2974-87	PMST/8628		
4080362004	**GP-5 (3.5-5')**	ASTM D2974-87	PMST/8628		
4080362005	**GP-5 (17-19')**	ASTM D2974-87	PMST/8629		
4080362006	**GP-6 (7.5-10')**	ASTM D2974-87	PMST/8629		
4080362007	**GP-7 (0.5-3')**	ASTM D2974-87	PMST/8629		
4080362014	**GP-7 (12.5-15')**	ASTM D2974-87	PMST/8627		
4080362016	**GP-1 (18-20')**	ASTM D2974-87	PMST/8629		

REPORT OF LABORATORY ANALYSIS

SW

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

4080362

CHAIN OF CUSTODY

(Please Print Clearly)	
Company Name:	TRC Env. Corp
Branch/Location:	Madison
Project Contact:	Alyssa Sellwood
Phone:	608-826-3658
Project Number:	204639
Project Name:	City of Madison-Cob Feeds
Project State:	Wisconsin
Sampled By (Print):	Wesley Braga
Sampled By (Sign):	Wesley J Braga
PO #:	Regulatory Program:

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: VOC (Soil)	LEAD (Soil)	PCB, SVOC, RCRA	VOC (GW)	LEAD (GW)	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					Y/N						Y			
					Pick Letter		F	A	A	B	D			
001	GP-1 5-7'	6/26/13	1435	S			X						1-4ozP^A, 1-40mL^F	
002	GP-2 8-10'	6/26/13	1425	S										
003	~~GP-3~~ GP-4 1.5-5'	6/26/13	1350	S					X				, 1-4ozag^A	
004	~~GP-4~~ GP-5 3.5-5'	6/26/13	1405	S										
005	GP-5 17-19'	6/26/13	1415	S										
006	GP-6 7.5-10'	6/26/13	1150	S				X					, 1-4ozag^A	
007	GP-7 0.5-3'	6/26/13	1210	S				X		/				
008	TW-1	6/26/13	1520	GW						X			3-40mL^B	
009	TW-2	6/26/13	1900	GW										
010	TW-3	6/26/13	1845	GW										
011	TW-5	6/26/13	1540	GW										
012	TW-6	6/26/13	1630	GW							X		1-250mL^P	
013	TW-7	6/26/13	1715	GW							X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Wesley J Braga	6/27/13 1820		
Fed Ex	6/28/13 0945		

PACE Project No.: 4080362

Receipt Temp = R01 °C

Sample Receipt pH: OK / Adjusted

Cooler Custody Seal: Present / Not Present; Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

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CHAIN OF CUSTODY

4080362

(Please Print Clearly)	
Company Name:	TRC Env. Corp.
Branch/Location:	Madison
Project Contact:	Alyssa Sellwood
Phone:	608-826-3658
Project Number:	204639
Project Name:	City of Madison-Cub Foods
Project State:	Wisconsin
Sampled By (Print):	Wesley Braga
Sampled By (Sign):	Wesley J Braga
PO #:	58714
Regulatory Program:	

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, W = Water, B = Biota, DW = Drinking Water, C = Charcoal, GW = Ground Water, O = Oil, SW = Surface Water, S = Soil, WW = Waste Water, Sl = Sludge, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: VOC (soil)	LEAD (soil)	VOC (GW)	RCRA Metals (GW)	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	FILTERED? (YES/NO)				Y/N			N	N				
	PRESERVATION (CODE)*				Pick Letter	F	A	B	A				
014	GP-7 12.5-15'	6/26/13	1220	S		X	X				1-4ozag A, 1-4oz p A, 1-40mL F	
015	TW-4	6/27/13	0815	GW				X	X	← No Filter or preserve on RCRA SAMPLE. Sampled RCRA at ~~different~~ time then VOC. in TW-4 @1730 6/27/13	1-250mL p A, 3-40mL B	
016	GP-1 18-20'	6/26/13	1445	S		X					1-4oz p A, 1-40mL F	
017	Trip Blank *										2-40mL B	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Wesley J Braga	6/27/13 1820		
Fed Ex	6/28/13 0945	[signature]	6/28/13 0945

PACE Project No.: 4080362
Receipt Temp = R01 °C
Sample Receipt pH: OK / Adjusted
Cooler Custody Seal: Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006) *Received + added to COC by lab. 6/28/13 BK

ORIGINAL

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Sample Condition Upon Receipt

Client Name: TRC Project # 4080362

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 8009 7817 9125

Custody Seal on Cooler/Box Present: ☐ yes ☐ no Seals intact: ☑ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used NA **Type of Ice:** Wet Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 12.0 /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☑ yes ☐ no

Person examining contents:
Date: 6/28/13
Initials: BF

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☑No ☐N/A	11. received filtered volume for 012 + 013, need to lab filter 015, 6/28/13 BF
Sample Labels match COC:	☐Yes ☑No ☐N/A	12. added 1-250mL 004 (1-4oz p) labeled GP-5 1.5-5. 6/28/13 BF
-Includes date/time/ID/Analysis Matrix: S + W		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☑Yes ☐No ☐N/A	13. ☑ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☑Yes ☐No	Initial when completed: BF; Lab Std #ID of preservative: ; Date/Time:
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☐N/A	14.
Trip Blank Present:	☑Yes ☐No ☐N/A	15. Trip Blank received + added to COC by lab, 6/28/13 BF
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 307		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CH EC TW **Date:** 6/28/13

Attachment 5

Photographs

Photographic Log

Client Name:	Site Location:	Project No.:
City of Madison Asbestos Photos	Former Cub Foods Nakoosa Trail, Madison, WI	204639.0000.0000

Photo No.	Date
1	6/27/13

Description
The main area of the former grocery store building.

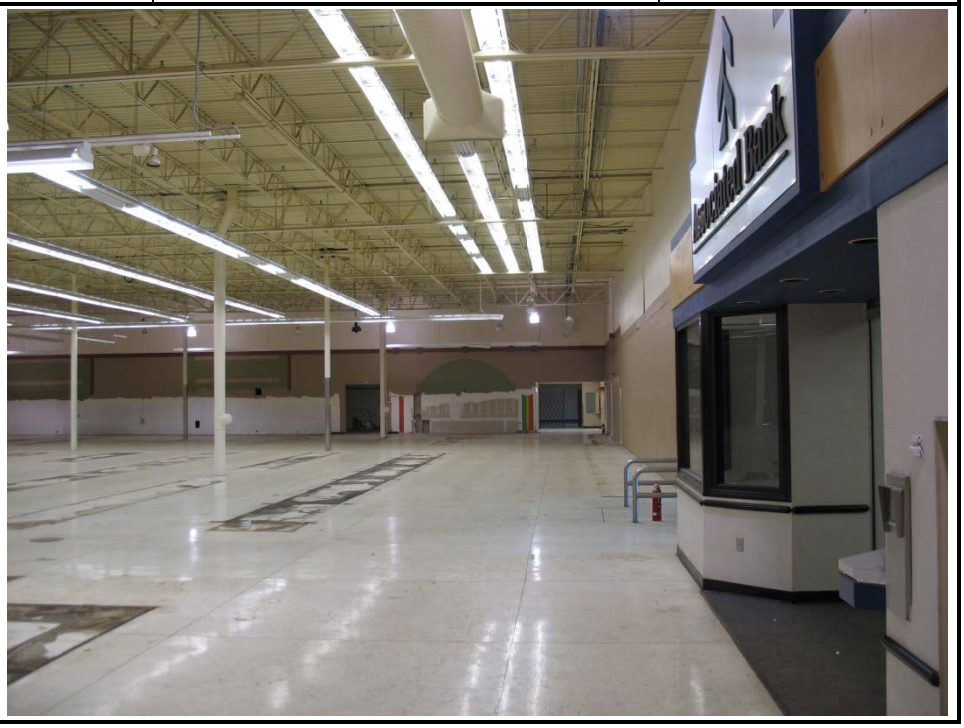


Photo No.	Date
2	6/27/13

Description
Electrical room located in the upper level office area. No suspect ACM identified.

Photographic Log

Client Name:	Site Location:	Project No.:
City of Madison Asbestos Photos	Former Cub Foods Nakoosa Trail, Madison, WI	204639.0000.0000

Photo No.	Date
3	6/27/13

Description
Black felt material located on the roof of the building, between aggregate and rubber membrane layers. No asbestos detected.

Photo No.	Date
4	6/27/13

Description
Gray caulk located on the roof of the building. No asbestos detected.

Photographic Log

Client Name:	Site Location:	Project No.:
City of Madison Asbestos Photos	Former Cub Foods Nakoosa Trail, Madison, WI	204639.0000.0000

Photo No.	Date
5	6/27/13

Description
Black caulk located on the roof of the building. No asbestos detected.

Photo No.	Date
6	6/27/13

Description
Electrical room located in the rear of the building. No suspect ACM identified.

Photographic Log

Client Name:	Site Location:	Project No.:
City of Madison Asbestos Photos	Former Cub Foods Nakoosa Trail, Madison, WI	204639.0000.0000

Photo No.	Date
7	6/27/13

Description
12″ x 12″ floor tile and black mastic located in the former pharmacy area. This material was similar to the floor tile found in the former liquor store area and other sections of the building.

Photo No.	Date
8	6/27/13

Description
Restroom located near the main entrance. No suspect ACM identified.

Photographic Log

Client Name:	Site Location:	Project No.:
City of Madison Asbestos Photos	Former Cub Foods Nakoosa Trail, Madison, WI	204639.0000.0000

Photo No.	Date
9	6/27/13

Description
12" x 12" floor tile and black mastic located in the former liquor store area of the building. No asbestos was detected in the tile, but the mastic contains 10% asbestos.

Photo No.	Date
10	6/27/13

Description
Cove base and mastic located inside the main grocery store area. No asbestos detected.

Photographic Log

Client Name:	Site Location:	Project No.:
City of Madison Mold Samples	Former Cub Foods Nakoosa Trail, Madison, WI	204639.0000.0000

Photo No.	Date
1	7/22/13

Description
Test Site 1

Alternaria species Rare
2 spores / cm sq.

Basidiospores Rare
2 spores / cm sq.

Smuts/Myxomycetes Rare
1 spore / cm sq.

Photo No.	Date
2	7/22/13

Description
Test Site 2

Aspergillus/Penicillium Rare
120 spores / cm sq.

Chaetomium species Rare
3 spores / cm sq.

Stachybotrys species Heavy
350,000 spores / cm sq.

Ulocladium species Light
100 spores / cm sq.

Photographic Log

Client Name:	Site Location:	Project No.:
City of Madison Mold Samples	Former Cub Foods Nakoosa Trail, Madison, WI	204639.0000.0000

Photo No.	Date
4	7/22/13

Description
Test Site 4

Cladosporium species Heavy
45,000 spores / cm sq.

Ulocladium species Heavy
22,500 spores / cm sq.

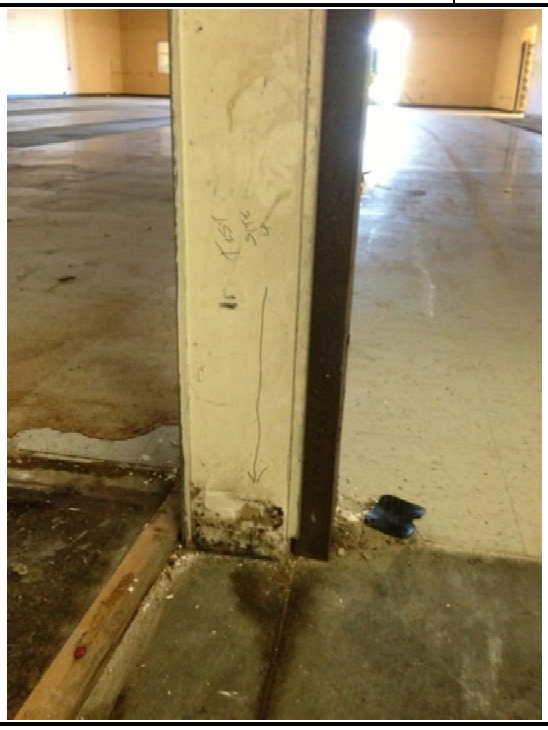


Photo No.	Date
5	7/22/13

Description
Test Site 5

No Fungi Detected

Photographic Log

Client Name:	Site Location:	Project No.:
City of Madison Mold Samples	Former Cub Foods Nakoosa Trail, Madison, WI	204639.0000.0000

Photo No.	Date
6	7/22/13

Description
Test Site 6

Cladosporium species Light
1,392 spores / cm sq.

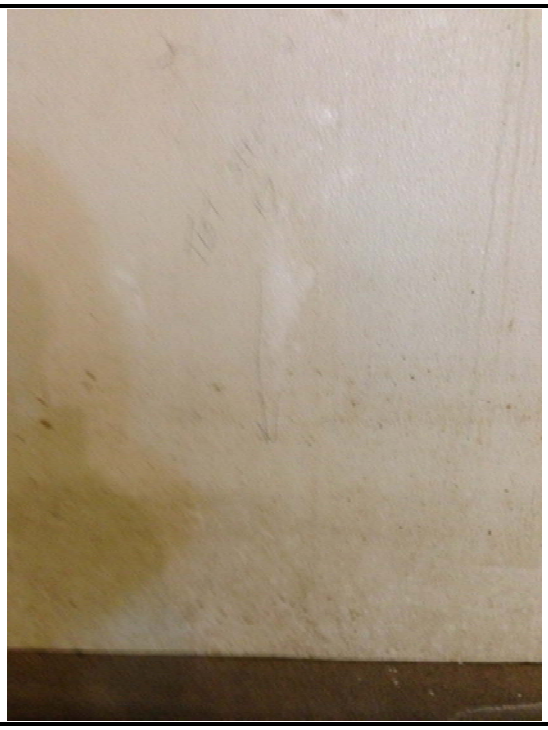
Smuts/Myxomycetes Rare
3 spores / cm sq.

Ulocladium species Rare
1 spore/cm sq.

Photo No.	Date
7	7/22/13

Description
Test Site 7

No Fungi Detected



Photographic Log

Client Name:	Site Location:	Project No.:
City of Madison Mold Samples	Former Cub Foods Nakoosa Trail, Madison, WI	204639.0000.0000

Photo No.	Date
8	7/22/13

Description
Test Site 8

Aspergillus/Penicillium Rare
12 spores / cm sq.

Cladosporium species Heavy
260,000 spores / cm sq.

Ulocladium species Rare
1 spore / cm sq.

Photo No.	Date
9	7/22/13

Description
Test Site 9

No Fungi Detected

Photographic Log

Client Name:	Site Location:	Project No.:
City of Madison Mold Samples	Former Cub Foods Nakoosa Trail, Madison, WI	204639.0000.0000

Photo No.	Date
10	7/22/13

Description
Test Site 10

Alternaria species Rare
2 spores / cm sq.

Aspergillus/Penicillium Rare
2 spores / cm sq.

TRC
Results you can rely on

708 Heartland Trail
Suite 3000
Madison, WI 53717

608.826.3600 PHONE
608.826.9341 FAX

www.TRCsolutions.com

July 29, 2013

Ms. Brynn Bemis
Hydrogeologist
City of Madison
Engineering Division
210 Martin Luther King Jr. Blvd., Room 115
Madison, WI 53703

Subject: Addendum No. 1 – Additional Asbestos Sampling Results
Phase II Environmental Site Assessments (ESAs)
Five Adjacent Parcels – Nakoosa Trail and Commercial Avenue,
Madison, Wisconsin

Dear Ms. Bemis:

On July 23, 2013, TRC Environmental Corporation (TRC) submitted a Phase II Environmental Site Assessment (ESA) to the City of Madison (City) for five adjacent parcels (tax identification numbers 081033405194, 081033405201, 081033405011, 081033405128 and 081033405144) located at Nakoosa Trail and Commercial Avenue in Madison, Wisconsin ("sites"). Following review of the report, the City requested that TRC complete additional asbestos sampling in the former grocery store building. The additional sampling and analysis are summarized within this report. Please include this report as an addendum to the July 23, 2013 Phase II ESA.

Background

On June 27, 2013, TRC conducted an asbestos inspection of the former Cub Foods building in order to determine the extent of potential asbestos containing materials (ACMs) in the building. Asbestos was identified in the black mastic sampled from beneath the 12-inch x 12-inch floor tile located under the former pharmacy and liquor store areas of the building. Similar tile was also observed in the front cart storage area and several upstairs offices. The 12-inch x 12-inch floor tile is estimated to cover approximately 10,000 sf of the facility (see facility drawing in Attachment 1).

Due to the City's request to limit damage to building materials during sampling, carpeted areas and large floor tiles located in the main grocery store area were not removed in order to check for the presence of floor tile and/or mastic beneath those materials. Because

the large floor tile covers approximately 35,000 sf of the building, this could have a significant impact on cost for asbestos abatement if ACM were present in material below the tile (see facility drawing in Attachment 1). Therefore, the City requested that TRC complete a supplemental asbestos inspection to determine if mastic or small tile was present below the large tile, and to test the large tile for potential ACM.

Investigation Methods

On July 25, 2013, TRC completed the supplemental asbestos inspection for the large floor tile area of the former Cub Foods. The supplemental inspection was completed by James Gondek, WDHFS Asbestos Inspector #AII-108099, in accordance with the United States Environmental Protection Agency's (USEPA's) Asbestos Hazardous Emergency Response Act (AHERA) 40 CFR Part 763, Subpart E, as indicated in WDNR and Occupational Safety and Health Administration (OSHA) regulations, and the methods described in Phase II ESA Summary Report.

Three randomly distributed samples were collected from the large floor tile material. In each case, concrete was observed below the tile (i.e. the materials of concern [black mastic and the 12-inch by 12-inch tile] were not observed). Therefore, no samples were collected from materials below the large tile.

A total of three samples were collected from the large floor tile material. Samples collected were analyzed on one-day turnaround time by TRC Solutions, Inc. in Windsor, Connecticut using polarized light microscopy (PLM) with dispersion staining techniques.

Results

The results of the supplemental asbestos sampling are included in Attachment 2, and photographs are included in Attachment 3. The analysis found that the large floor tile did not have detectable quantities of asbestos. In addition, because black mastic and the small floor tile were not observed below the large tile, no ACM was found to be present below the large tile.

Conclusions and Recommendations

Because the materials of concern (black mastic and the small floor tile) were not observed below the large tile, and because the large tile did not contain asbestos, the original estimate of quantity and cost for abatement at the facility remains the same as that presented in the Phase II ESA summary. The estimated cost to abate the 10,000 sf of black mastic beneath the small floor tile is approximately $30,000 or $3/sf.

Please contact Alyssa Sellwood at (608) 826-3658, if you have questions or concerns.

Sincerely,

TRC Environmental Corporation

James Gondek, P.E.
Project Engineer

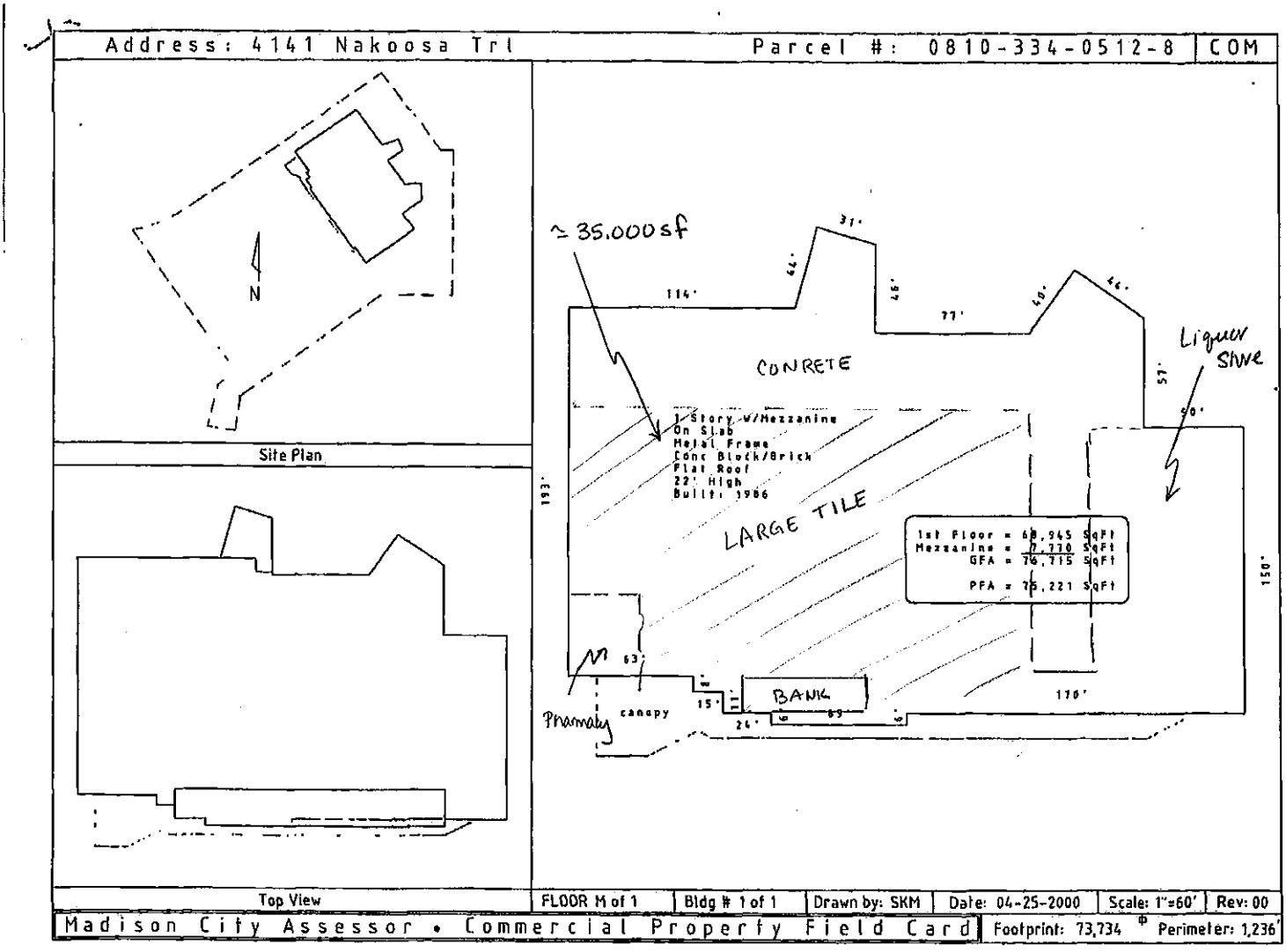
Alyssa Sellwood, P.E.
Project Manager

Attachments: Attachment 1: Facility Layout Sketch
Attachment 2: Asbestos Analytical Results
Attachment 3: Photographs

Attachment 1

Facility Layout Sketch

Facility Layout Sketch
Approximate Extent of Floor Coverings



Attachment 2

Asbestos Analytical Results

Industrial Hygiene Laboratory
21 Griffin Road North
Windsor, CT 06095
(860) 298-6308

TRC
Results you can rely on

BULK ASBESTOS ANALYSIS REPORT

CLIENT: City of Madison

Lab Log #:	0042670
Project #:	204639.0000.0000
Date Received:	07/26/2013
Date Analyzed:	07/26/2013

Site: Cub Foods- Nakoosa Trail, Madison, WI

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
FT2-1	White/Beige	Yes	No	- -	- - -	ND<1%	None
FT2-2	White/Beige	Yes	No	- -	- - -	ND<1%	None
FT2-3	White/Beige	Yes	No	- -	- - -	ND<1%	None

Reporting limit- asbestos present at 1%
ND<1% - asbestos was not detected
Trace - asbestos was observed at level of less than 1%
NA/PS - Not Analyzed / Positive Stop

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, negative results must be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation (1982), and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116), July 1993, R.L. Perkins and B.W. Harvey which utilizes polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2014. TRC is an American Industrial Hygiene Association (AIHA) accredited lab for PLM effective through October 1, 2014. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and the QC data related to the samples is available upon written request from the client.

Analyzed by: K. Williamson
Kathleen Williamson, Laboratory Manager

Reviewed by: Amanda Parkins
Amanda Parkins, Approved Signatory

Date Issued
07/26/2013

TRC

Edition: October 2009
Supersede Previous Edition

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

City of Madison

LAB ID #. 42670

PROJECT NUMBER	PROJECT NAME
204639.0000.0000	Cub Foods – Nakoosa Trail

TURNAROUND TIME

PLM:	x	8hr		24hr		48hr		3day
TEM:		24hr		48hr		3day		5day

SIGNATURE	INSPECTOR
James D Gondek	James Gondek

FIELD SAMPLE NUMBER	DATE	TIME	TYPE: COMP	TYPE: GRAB	SAMPLE LOCATION	PARAMETERS: PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
FT2-1	7/25/13	8:10		X	Cub Foods – Main Area	X	X				Flooring
FT2-2	7/25/13	8:12		X	Cub Foods – Main Area	↓	↓				Flooring
FT203	7/25/13	8:15		X	Cub Foods – Main Area	↓	↓				Flooring

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
James Gondek	7/25/13	7/26/13			
(Printed) James Gondek	Time: 16:00	(Printed) 1000 Williamson	(Printed)	Time:	(Printed)

Remarks:

Condition of Samples: OK
Acceptable: Yes ___ No ___
Comments:

2/2

Attachment 3

Photographs

Photographic Log

Client Name:	Site Location:	Project No.:
City of Madison Asbestos Photos	Former Cub Foods Nakoosa Trail, Madison, WI	204639.0000.0000

Photo No.	Date
1	7/25/13

Description
Large floor tile in the main area of the former grocery store building.

Photo No.	Date
2	7/25/13

Description
Samples were collected from an existing floor penetration in the large floor tile. The foam insulation is not a suspect ACM and was not sampled. No asbestos was detected in the floor tile sample.

Photographic Log

Client Name:	Site Location:	Project No.:
City of Madison Asbestos Photos	Former Cub Foods Nakoosa Trail, Madison, WI	204639.0000.0000

Photo No.	Date
3	7/25/13

Description
Additional sampling location located at a damaged section of the large floor tile. No asbestos was detected.

Photo No.	Date
4	7/25/13

Description
Close-up of the damaged section of floor tile showing the concrete slab beneath the tile.

SECTION E: BIDDERS ACKNOWLEDGEMENT

CUB FOODS HAZMAT ABATEMENT
CONTRACT NO. 7754

Bidder must state a Unit Price and Total Bid for each item. The Total Bid for each item must be the product of quantity, by Unit Price. The Grand Total must be the sum of the Total Bids for the various items. In case of multiplication errors or addition errors, the Grand Total with corrected multiplication and/or addition shall determine the Grand Total bid for each contract. The Unit Price and Total Bid must be entered numerically in the spaces provided. All words and numbers shall be written in ink.

1. The undersigned having familiarized himself/herself with the Contract documents, including Advertisement for Bids, Instructions to Bidders, Form of Proposal, City of Madison Standard Specifications for Public Works Construction - 2016 Edition thereto, Form of Agreement, Form of Bond, and Addenda issued and attached to the plans and specifications on file in the office of the City Engineer, hereby proposes to provide and furnish all the labor, materials, tools, and expendable equipment necessary to perform and complete in a workmanlike manner the specified construction on this project for the City of Madison; all in accordance with the plans and specifications as prepared by the City Engineer, including Addenda to the Contract Nos. _____ through _____ issued thereto, at the prices for said work as contained in this proposal. (Electronic bids submittals shall acknowledge addendum under Section E and shall not acknowledge here)
2. If awarded the Contract, we will initiate action within seven (7) days after notification or in accordance with the date specified in the contract to begin work and will proceed with diligence to bring the project to full completion within the number of work days allowed in the Contract or by the calendar date stated in the Contract.
3. The undersigned Bidder or Contractor certifies that he/she is not a party to any contract, combination in form of trust or otherwise, or conspiracy in restraint of trade or commerce or any other violation of the anti-trust laws of the State of Wisconsin or of the United States, with respect to this bid or contract or otherwise.
4. I hereby certify that I have met the Bid Bond Requirements as specified in Section 102.5. *(IF BID BOND IS USED, IT SHALL BE SUBMITTED ON THE FORMS PROVIDED BY THE CITY. FAILURE TO DO SO MAY RESULT IN REJECTION OF THE BID).*
5. I hereby certify that all statements herein are made on behalf of _____ (name of corporation, partnership, or person submitting bid) a corporation organized and existing under the laws of the State of _____ a partnership consisting of _____; an individual trading as _____; of the City of _____ State of _____; that I have examined and carefully prepared this Proposal, from the plans and specifications and have checked the same in detail before submitting this Proposal; that I have fully authority to make such statements and submit this Proposal in (its, their) behalf; and that the said statements are true and correct.

_____
SIGNATURE

_____
TITLE, IF ANY

Sworn and subscribed to before me this
_____ day of _____, 20_____.

_____
(Notary Public or other officer authorized to administer oaths)
My Commission Expires _____
Bidders shall not add any conditions or qualifying statements to this Proposal.

SECTION F: DISCLOSURE OF OWNERSHIP & BEST VALUE CONTRACTING

CUB FOODS HAZMAT ABATEMENT
CONTRACT NO. 7754

State of Wisconsin
Department of Workforce Development
Equal Rights Division
Labor Standards Bureau

Disclosure of Ownership

Notice required under Section 15.04(1)(m), Wisconsin Statutes. The statutory authority for the use of this form is prescribed in Sections 66.0903(12)(d) and 103.49(7)(d), Wisconsin Statutes. The use of this form is mandatory. The penalty for failing to complete this form is prescribed in Section 103.005(12), Wisconsin Statutes. Personal information you provide may be used for secondary purposes.

(1) On the date a contractor submits a bid to or completes negotiations with a state agency or local governmental unit, on a project subject to Section 66.0903 or 103.49, Wisconsin Statutes, the contractor shall disclose to such state agency or local governmental unit the name of any "other construction business", which the contractor, or a shareholder, officer or partner of the contractor, owns or has owned within the preceding three (3) years.

(2) The term "other construction business" means any business engaged in the erection, construction, remodeling, repairing, demolition, altering or painting and decorating of buildings, structures or facilities. It also means any business engaged in supplying mineral aggregate, or hauling excavated material or spoil as provided by Sections 66.0903(3), 103.49(2) and 103.50(2), Wisconsin Statutes.

(3) This form must ONLY be filed, with the state agency or local governmental unit that will be awarding the contract, if **both (A) and (B) are met**.

(A) The contractor, or a shareholder, officer or partner of the contractor:

(1) Owns at least a 25% interest in the "other construction business", indicated below, on the date the contractor submits a bid or completes negotiations.

(2) Or has owned at least a 25% interest in the "other construction business" at any time within the preceding three (3) years.

(B) The Wisconsin Department of Workforce Development (DWD) has determined that the "other construction business" has failed to pay the prevailing wage rate or time and one-half the required hourly basic rate of pay, for hours worked in excess of the prevailing hours of labor, to any employee at any time within the preceding three (3) years.

Other Construction Business

Not Applicable ☐

Name of Business			
Street Address or P O Box	City	State	Zip Code
Name of Business			
Street Address or P O Box	City	State	Zip Code
Name of Business			
Street Address or P O Box	City	State	Zip Code

I hereby state under penalty of perjury that the information, contained in this document, is true and accurate according to my knowledge and belief.

Print the Name of Authorized Officer	
Signature of Authorized Officer	Date Signed
Name of Corporation, Partnership or Sole Proprietorship	

Street Address or P O Box	City	State	Zip Code

If you have any questions call (608) 266-0028

ERD-7777-E (R. 09/2003)

CUB FOODS HAZMAT ABATEMENT
CONTRACT NO. 7754

Best Value Contracting

1. The Contractor shall indicate the non-apprenticeable trades used on this contract.

_____

_____

2. Madison General Ordinance (M.G.O.), 33.07(7), does provide for some exemptions from the active apprentice requirement. Apprenticeable trades are those trades considered apprenticeable by the State of Wisconsin. Please check applicable box if you are seeking an exemption.

☐ Contractor has a total skilled workforce of four or less individuals in all apprenticeable trades combined.

☐ No available trade training program; The Contractor has been rejected by the only available trade training program, or there is no trade training program within 90 miles.

☐ Contractor is not using an apprentice due to having a journey worker on layoff status, provided the journey worker was employed by the contractor in the past six months.

☐ First-time Contractor on City of Madison Public Works contract requests a onetime exemption but intends to comply on all future contracts and is taking steps typical of a "good faith" effort.

☐ Contractor has been in business less than one year.

☐ Contractor doesn't have enough journeyman trade workers to qualify for a trade training program in that respective trade.

☐ An exemption is granted in accordance with a time period of a "Documented Depression" as defined by the State of Wisconsin.

3. The Contractor shall indicate on the following section which apprenticeable trades are to be used on this contract. Compliance with active apprenticeship, to the extent required by M.G.O. 33.07(7), shall be satisfied by documentation from an applicable trade training body; an apprenticeship contract with the Wisconsin Department of Workforce Development or a similar agency in another state; or the U.S Department of Labor. This documentation is required prior to the Contractor beginning work on the project site.

☐ The Contractor has reviewed the list and shall not use any apprenticeable trades on this project.

LIST APPRENTICABLE TRADES (check all that apply to your work to be performed on this contract)

- ☐ BRICKLAYER
- ☐ CARPENTER
- ☐ CEMENT MASON / CONCRETE FINISHER
- ☐ CEMENT MASON (HEAVY HIGHWAY)
- ☐ CONSTRUCTION CRAFT LABORER
- ☐ DATA COMMUNICATION INSTALLER
- ☐ ELECTRICIAN
- ☐ ENVIRONMENTAL SYSTEMS TECHNICIAN / HVAC SERVICE TECH/HVAC INSTALL / SERVICE
- ☐ GLAZIER
- ☐ HEAVY EQUIPMENT OPERATOR / OPERATING ENGINEER
- ☐ INSULATION WORKER (HEAT & FROST)
- ☐ IRON WORKER
- ☐ IRON WORKER (ASSEMBLER, METAL BLDGS)
- ☐ PAINTER & DECORATOR
- ☐ PLASTERER
- ☐ PLUMBER
- ☐ RESIDENTIAL ELECTRICIAN
- ☐ ROOFER & WATER PROOFER
- ☐ SHEET METAL WORKER
- ☐ SPRINKLER FITTER
- ☐ STEAMFITTER
- ☐ STEAMFITTER (REFRIGERATION)
- ☐ STEAMFITTER (SERVICE)
- ☐ TAPER & FINISHER
- ☐ TELECOMMUNICATIONS (VOICE, DATA & VIDEO) INSTALLER-TECHNICIAN
- ☐ TILE SETTER

SECTION G: BID BOND

KNOW ALL MEN BY THESE PRESENT, THAT Principal and Surety, as identified below, are held and firmly bound unto the City of Madison, (hereinafter referred to as the "Obligee"), in the sum of five per cent (5%) of the amount of the total bid or bids of the Principal herein accepted by the Obligee, for the payment of which the Principal and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

The conditions of this obligation are such that, whereas the Principal has submitted, to the City of Madison a certain bid, including the related alternate, and substitute bids attached hereto and hereby made a part hereof, to enter into a contract in writing for the construction of:

CUB FOODS HAZMAT ABATEMENT
CONTRACT NO. 7754

1. If said bid is rejected by the Obligee, then this obligation shall be void.

2. If said bid is accepted by the Obligee and the Principal shall execute and deliver a contract in the form specified by the Obligee (properly completed in accordance with said bid) and shall furnish a bond for his/her faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said bid, then this obligation shall be void.

   If said bid is accepted by the Obligee and the Principal shall fail to execute and deliver the contract and the performance and payment bond noted in 2. above executed by this Surety, or other Surety approved by the City of Madison, all within the time specified or any extension thereof, the Principal and Surety agree jointly and severally to forfeit to the Obligee as liquidated damages the sum mentioned above, it being understood that the liability of the Surety for any and all claims hereunder shall in no event exceed the sum of this obligation as stated, and it is further understood that the Principal and Surety reserve the right to recover from the Obligee that portion of the forfeited sum which exceed the actual liquidated damages incurred by the Obligee.

   The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by an extension of the time within which the Obligee may accept such bid, and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, on the day and year set forth below.

Seal PRINCIPAL

Name of Principal

By Date

Name and Title

Seal SURETY

Name of Surety

By Date

Name and Title

This certifies that I have been duly licensed as an agent for the above company in Wisconsin under National Provider No. _____ for the year _____, and appointed as attorney in fact with authority to execute this bid bond and the payment and performance bond referred to above, which power of attorney has not been revoked.

Date Agent

Address

City, State and Zip Code

Telephone Number

NOTE TO SURETY & PRINCIPAL

The bid submitted which this bond guarantees shall be rejected if the following instrument is not attached to this bond:

Power of Attorney showing that the agent of Surety is currently authorized to execute bonds on behalf of the Surety, and in the amounts referenced above.

Certificate of Biennial Bid Bond

TIME PERIOD - VALID (FROM/TO)
NAME OF SURETY
NAME OF CONTRACTOR
CERTIFICATE HOLDER City of Madison, Wisconsin

This is to certify that a biennial bid bond issued by the above-named Surety is currently on file with the City of Madison.

This certificate is issued as a matter of information and conveys no rights upon the certificate holder and does not amend, extend or alter the coverage of the biennial bid bond.

Cancellation: Should the above policy be cancelled before the expiration date, the issuing Surety will give thirty (30) days written notice to the certificate holder indicated above.

Signature of Authorized Contractor Representative

Date

SECTION H: AGREEMENT

THIS AGREEMENT made this _____ day of _____ in the year Two Thousand and Sixteen between _____ hereinafter called the Contractor, and the City of Madison, Wisconsin, hereinafter called the City.

WHEREAS, the Common Council of the said City of Madison under the provisions of a resolution adopted _____, and by virtue of authority vested in the said Council, has awarded to the Contractor the work of performing certain construction.

NOW, THEREFORE, the Contractor and the City, for the consideration hereinafter named, agree as follows:

1. **Scope of Work.** The Contractor shall, perform the construction, execution and completion of the following listed complete work or improvement in full compliance with the Plans, Specifications, Standard Specifications, Supplemental Specifications, Special Provisions and contract; perform all items of work covered or stipulated in the proposal; perform all altered or extra work; and shall furnish, unless otherwise provided in the contract, all materials, implements, machinery, equipment, tools, supplies, transportation, and labor necessary to the prosecution and completion of the work or improvements:

CUB FOODS HAZMAT ABATEMENT
CONTRACT NO. 7754

2. **Completion Date/Contract Time.** Construction work must begin within seven (7) calendar days after the date appearing on mailed written notice to do so shall have been sent to the Contractor and shall be carried on at a rate so as to secure full completion SEE SPECIAL PROVISIONS, the rate of progress and the time of completion being essential conditions of this Agreement.

3. **Contract Price.** The City shall pay to the Contractor at the times, in the manner and on the conditions set forth in said specifications, the sum of _____($_____) Dollars being the amount bid by such Contractor and which was awarded to him/her as provided by law.

4. **Wage Rates for Employees of Public Works Contractors**

   General and Authorization. The Contractor shall compensate its employees at the prevailing wage rate in accordance with section 66.0903, Wis. Stats., DWD 290 of the Wisconsin Administrative Code and as hereinafter provided unless otherwise noted in Section D: Special Provisions, Subsection 102.10 – Minimum Rate of Wage Scale.

   "Public Works" shall include building or work involving the erection, construction, remodeling, repairing or demolition of buildings, parking lots, highways, streets, bridges, sidewalks, street lighting, traffic signals, sanitary sewers, water mains and appurtenances, storm sewers, and the grading and landscaping of public lands.

   "Building or work" includes construction activity as distinguished from manufacturing, furnishing of materials, or servicing and maintenance work, except for the delivery of mineral aggregate such as sand, gravel, bituminous asphaltic concrete or stone which is incorporated into the work under contract with the City by depositing the material directly in final place from transporting vehicle.

   "Erection, construction, remodeling, repairing" means all types of work done on a particular building or work at the site thereof in the construction or development of the project, including without limitation, erecting, construction, remodeling, repairing, altering, painting, and decorating, the transporting of materials and supplies to or from the building or work done by the employees of the Contractor, Subcontractor, or Agent thereof, and the manufacturing or furnishing of

materials, articles, supplies or equipment on the site of the building or work, by persons employed by the Contractor, Subcontractor, or Agent thereof.

"Employees working on the project" means laborers, workers, and mechanics employed directly upon the site of work.

"Laborers, Workers, and Mechanics" include pre-apprentices, helpers, trainees, learners and properly registered and indentured apprentices but exclude clerical, supervisory, and other personnel not performing manual labor.

Establishment of Wage Rates. The Department of Public Works shall periodically obtain a current schedule of prevailing wage rates from DWD. The schedule shall be used to establish the City of Madison Prevailing Wage Rate Schedule for Public Works Construction (prevailing wage rate). The Department of Public Works may include known increases to the prevailing wage rate which can be documented and are to occur on a future specific date. The prevailing wage rate shall be included in public works contracts subsequently negotiated or solicited by the City. Except for known increases contained within the schedule, the prevailing wage rate shall not change during the contract. The approved wage rate is attached hereto.

Workforce Profile. The Contractor shall, at the time of signature of the contract, notify the City Engineer in writing of the names and classifications of all the employees of the Contractor, Subcontractors, and Agents proposed for the work. In the alternative, the Contractor shall submit in writing the classifications of all the employees of the Contractor, Subcontractors and Agents and the total number of hours estimated in each classification for the work. This workforce profile(s) shall be reviewed by the City Engineer who may, within ten (10) days, object to the workforce profile(s) as not being reflective of that which would be required for the work. The Contractor may request that the workforce profile, or a portion of the workforce profile, be submitted after the signature of the contract but at least ten (10) days prior to the work commencing. Any costs or time loss resulting from modifications to the workforce profile as a result of the City Engineer's objections shall be the responsibility of the Contractor.

Payrolls and Records. The Contractor shall keep weekly payroll records setting forth the name, address, telephone number, classification, wage rate and fringe benefit package of all the employees who work on the contract, including the employees of the Contractor's subcontractors and agents. Such weekly payroll records must include the required information for all City contracts and all other contracts on which the employee worked during the week in which the employee worked on the contract. The Contractor shall also keep records of the individual time each employee worked on the project and for each day of the project. Such records shall also set forth the total number of hours of overtime credited to each such employee for each day and week and the amount of overtime pay received in that week. The records shall set forth the full weekly wages earned by each employee and the actual hourly wage paid to the employee.

The Contractor shall submit the weekly payroll records, including the records of the Contractor's subcontractors and agents, to the City Engineer for every week that work is being done on the contract. The submittal shall be within twenty-one (21) calendar days of the end of the Contractor's weekly pay period.

Employees shall receive the full amounts accrued at the time of the payment, computed at rates not less than those stated in the prevailing wage rate and each employee's rate shall be determined by the work that is done within the trade or occupation classification which should be properly assigned to the employee.

An employee's classification shall not be changed to a classification of a lesser rate during the contract. If, during the term of the contract, an employee works in a higher pay classification than the one which was previously properly assigned to the employee, then that employee shall be considered to be in the higher pay classification for the balance of the contract, receive the appropriate higher rate of pay, and she/he shall not receive a lesser rate during the balance of the

contract. For purposes of clarification, it is noted that there is a distinct difference between working in a different classification with higher pay and doing work within a classification that has varying rates of pay which are determined by the type of work that is done within the classification. For example, the classification “Operating Engineer” provides for different rates of pay for various classes of work and the Employer shall compensate an employee classified as an “Operating Engineer” based on the highest class of work that is done in one day. Therefore, an “Operating Engineer’s” rate may vary on a day to day basis depending on the type of work that is done, but it will never be less than the base rate of an “Operating Engineer”. Also, as a matter of clarification, it is recognized that an employee may work in a higher paying classification merely by chance and without prior intention, calculation or design. If such is the case and the performance of the work is truly incidental and the occurrence is infrequent, inconsequential and does not serve to undermine the single classification principle herein, then it may not be required that the employee be considered to be in the higher pay classification and receive the higher rate of pay for the duration of the contract. However, the Contractor is not precluded or prevented from paying the higher rate for the limited time that an employee performs work that is outside of the employee’s proper classification.

Questions regarding an employee’s classification, rate of pay or rate of pay within a classification, shall be resolved by reference to the established practice that predominates in the industry and on which the trade or occupation rate/classification is based. Rate of pay and classification disputes shall be resolved by relying upon practices established by collective bargaining agreements and guidelines used in such determination by appropriate recognized trade unions operating within the City of Madison.

The Contractor, its Subcontractors and Agents shall submit to interrogation regarding compliance with the provisions of this ordinance.

Mulcting of the employees by the Contractor, Subcontractor, and Agents on Public Works contracts, such as by kickbacks or other devices, is prohibited. The normal rate of wage of the employees of the Contractor, Subcontractor, and Agents shall not be reduced or otherwise diminished as a result of payment of the prevailing wage rate on a public works contract.

Hourly contributions. Hourly contributions shall be determined in accordance with the prevailing wage rate and with DWD. 290.01(10), Wis. Admin. Code.

Apprentices and Subjourney persons. Apprentices and sub journeypersons performing work on the project shall be compensated in accordance with the prevailing wage rate and with DWD 290.02, and 290.025, respectively, Wis. Admin. Code.

Straight Time Wages. The Contractor may pay straight time wages as determined by the prevailing wage rate and DWD 290.04, Wis. Admin. Code.

Overtime Wages. The Contractor shall pay overtime wages as required by the prevailing wage rate and DWD 290.05, Wis. Admin. Code.

Posting of Wage Rates and Hours. A clearly legible copy of the prevailing wage rate, together with the provisions of Sec. 66.0903(10)(a) and (11)(a), Wis. Stats., shall be kept posted in at least one conspicuous and easily accessible place at the project site by the Contractor and such notice shall remain posted during the full time any laborers, workers or mechanics are employed on the contract.

Evidence of Compliance by Contractor. Upon completion of the contract, the Contractor shall file with the Department of Public Works an affidavit stating:

a. That the Contractor has complied fully with the provisions and requirements of Sec. 66.0903(3), Wis. Stats., and Chapter DWD 290, Wis. Admin. Code; the Contractor has received evidence of compliance from each of the agents and subcontractors; and the

names and addresses of all of the subcontractors and agents who worked on the contract.

b. That full and accurate records have been kept, which clearly indicate the name and trade or occupation of every laborer, worker or mechanic employed by the Contractor in connection with work on the project. The records shall show the number of hours worked by each employee and the actual wages paid therefore; where these records will be kept and the name, address and telephone number of the person who will be responsible for keeping them. The records shall be retained and made available for a period of at least three (3) years following the completion of the project of public works and shall not be removed without prior notification to the municipality.

Failure to Comply with the Prevailing Wage Rate. If the Contractor fails to comply with the prevailing wage rate, she/he shall be in default on the contract. In addition, if DWD finds that a contractor or subcontractor violated the prevailing wage law, DWD will assess liquidated damages of 100% of the wages owed to employees.

Establishment of Wage Rates. The Department of Public Works shall periodically obtain a current schedule of prevailing wage rates from DWD. The schedule shall be used to establish the City of Madison Prevailing Wage Rate Schedule for Public Works Construction (prevailing wage rate). The Department of Public Works may include known increases to the prevailing wage rate which can be documented and are to occur on a future specific date. The prevailing wage rate shall be included in public works contracts subsequently negotiated or solicited by the City. Except for known increases contained within the schedule, the prevailing wage rate shall not change during the contract. The approved wage rate and DWD prevailing wage requirements are attached hereto as Sec. I of the contract.

5. **Affirmative Action.** In the performance of the services under this Agreement the Contractor agrees not to discriminate against any employee or applicant because of race, religion, marital status, age, color, sex, disability, national origin or ancestry, income level or source of income, arrest record or conviction record, less than honorable discharge, physical appearance, sexual orientation, gender identity, political beliefs, or student status. The Contractor further agrees not to discriminate against any subcontractor or person who offers to subcontract on this contract because of race, religion, color, age, disability, sex, sexual orientation, gender identity or national origin.

The Contractor agrees that within thirty (30) days after the effective date of this agreement, the Contractor will provide to the City Affirmative Action Division certain workforce utilization statistics, using a form to be furnished by the City.

If the contract is still in effect, or if the City enters into a new agreement with the Contractor, within one year after the date on which the form was required to be provided, the Contractor will provide updated workforce information using a second form, also to be furnished by the City. The second form will be submitted to the City Affirmative Action Division no later than one year after the date on which the first form was required to be provided.

The Contractor further agrees that, for at least twelve (12) months after the effective date of this contract, it will notify the City Affirmative Action Division of each of its job openings at facilities in Dane County for which applicants not already employees of the Contractor are to be considered. The notice will include a job description, classification, qualifications and application procedures and deadlines. The Contractor agrees to interview and consider candidates referred by the Affirmative Action Division if the candidate meets the minimum qualification standards established by the Contractor, and if the referral is timely. A referral is timely if it is received by the Contractor on or before the date started in the notice.

Articles of Agreement
Article I

The Contractor shall take affirmative action in accordance with the provisions of this contract to insure that applicants are employed, and that employees are treated during employment without regard to race, religion, color, age, marital status, disability, sex, sexual orientation, gender identity or national original and that the employer shall provide harassment free work environment for the realization of the potential of each employee. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation and selection for training including apprenticeship insofar as it is within the control of the Contractor. The Contractor agrees to post in conspicuous places available to employees and applicants notices to be provided by the City setting out the provisions of the nondiscrimination clauses in this contract.

Article II

The Contractor shall in all solicitations or advertisements for employees placed by or on behalf of the Contractors state that all qualified or qualifiable applicants will be employed without regard to race, religion, color, age, marital status, disability, sex, sexual orientation, gender identity or national origin.

Article III

The Contractor shall send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding a notice to be provided by the City advising the labor union or worker's representative of the Contractor's equal employment opportunity and affirmative action commitments. Such notices shall be posted in conspicuous places available to employees and applicants for employment.

Article V

The Contractor agrees that it will comply with all provisions of the Affirmative Action Ordinance of the City of Madison, including the contract compliance requirements. The Contractor agrees to submit the model affirmative action plan for public works contractors in a form approved by the Affirmative Action Division Manager.

Article VI

The Contractor will maintain records as required by Section 39.02(9)(f) of the Madison General Ordinances and will provide the City Affirmative Action Division with access to such records and to persons who have relevant and necessary information, as provided in Section 39.02(9)(f). The City agrees to keep all such records confidential, except to the extent that public inspection is required by law.

Article VII

In the event of the Contractor's or subcontractor's failure to comply with the Equal Employment Opportunity and Affirmative Action Provisions of this contract or Section 39.03 and 39.02 of the Madison General Ordinances, it is agreed that the City at its option may do any or all of the following:

1. Cancel, terminate or suspend this Contract in whole or in part.

2. Declare the Contractor ineligible for further City contracts until the Affirmative Action requirements are met.

3. Recover on behalf of the City from the prime Contractor 0.5 percent of the contract award price for each week that such party fails or refuses to comply, in the nature of liquidated damages, but not to exceed a total of five percent (5%) of the contract price, or five thousand dollars ($5,000), whichever is less. Under public works contracts, if a subcontractor is in noncompliance, the City may recover liquidated damages from the prime Contractor in the manner described above. The preceding sentence shall not be construed to prohibit a prime Contractor from recovering the amount of such damage from the non-complying subcontractor.

Article VIII

The Contractor shall include the above provisions of this contract in every subcontract so that such provisions will be binding upon each subcontractor. The Contractor shall take such action with respect to any subcontractor as necessary to enforce such provisions, including sanctions provided for noncompliance.

Article IX

The Contractor shall allow the maximum feasible opportunity to small business enterprises to compete for any subcontracts entered into pursuant to this contract. (In federally funded contracts the terms “DBE, MBE and WBE” shall be substituted for the term “small business” in this Article.)

6. Substance Abuse Prevention Program Required. Prior to commencing work on the Contract, the Contractor, and any Subcontractor, shall have in place a written program for the prevention of substance abuse among its employees as required under Wis. Stat. Sec. 103.503.

7. **Contractor Hiring Practices.**

Ban the Box - Arrest and Criminal Background Checks. (Sec. 39.08, MGO)

This provision applies to all prime contractors on contracts entered into on or after January 1, 2016, and all subcontractors who are required to meet prequalification requirements under MGO 33.07(7)(l), MGO as of the first time they seek or renew pre-qualification status on or after January 1, 2016. The City will monitor compliance of subcontractors through the pre-qualification process.

a. **Definitions.** For purposes of this section, “Arrest and Conviction Record” includes, but is not limited to, information indicating that a person has been questioned, apprehended, taken into custody or detention, held for investigation, arrested, charged with, indicted or tried for any felony, misdemeanor or other offense pursuant to any law enforcement or military authority.

“Conviction record” includes, but is not limited to, information indicating that a person has been convicted of a felony, misdemeanor or other offense, placed on probation, fined, imprisoned or paroled pursuant to any law enforcement or military authority.

“Background Check” means the process of checking an applicant’s arrest and conviction record, through any means.

b. **Requirements.** For the duration of this Contract, the Contractor shall:

1. Remove from all job application forms any questions, check boxes, or other inquiries regarding an applicant’s arrest and conviction record, as defined herein.

2. Refrain from asking an applicant in any manner about their arrest or conviction record until after conditional offer of employment is made to the applicant in question.

3. Refrain from conducting a formal or informal background check or making any other inquiry using any privately or publicly available means of obtaining the arrest or conviction record of an applicant until after a conditional offer of employment is made to the applicant in question.

4. Make information about this ordinance available to applicants and existing employees, and post notices in prominent locations at the workplace with information about the ordinance and complaint procedure using language provided by the City.

5. Comply with all other provisions of Sec. 39.08, MGO.

c. Exemptions: This section shall not apply when:

1. Hiring for a position where certain convictions or violations are a bar to employment in that position under applicable law, or

2. Hiring a position for which information about criminal or arrest record, or a background check is required by law to be performed at a time or in a manner that would otherwise be prohibited by this ordinance, including a licensed trade or profession where the licensing authority explicitly authorizes or requires the inquiry in question.

To be exempt, Contractor has the burden of demonstrating that there is an applicable law or regulation that requires the hiring practice in question, if so, the contractor is exempt from all of the requirements of this ordinance for the position(s) in question.

CUB FOODS HAZMAT ABATEMENT
CONTRACT NO. 7754

IN WITNESS WHEREOF, the Contractor has hereunto set his/her hand and seal and the City has caused these presents to be sealed with its corporate seal and to be subscribed by its Mayor and City Clerk the day and year first above written.

Countersigned:

Company Name

Witness Date

President Date

Witness Date

Secretary Date

CITY OF MADISON, WISCONSIN

Provisions have been made to pay the liability that will accrue under this contract.

Approved as to form:

Finance Director

City Attorney

Signed this _____ day of _____, 20____

Witness

Mayor Date

Witness

City Clerk Date

SECTION I: PAYMENT AND PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS, that we _____ as principal, and _____ Company of _____as surety, are held and firmly bound unto the City of Madison, Wisconsin, in the sum of _____($_____) Dollars, lawful money of the United States, for the payment of which sum to the City of Madison, we hereby bind ourselves and our respective executors and administrators firmly by these presents.

The condition of this Bond is such that if the above bounden shall on his/her part fully and faithfully perform all of the terms of the Contract entered into between him/herself and the City of Madison for the construction of:

CUB FOODS HAZMAT ABATEMENT
CONTRACT NO. 7754

in Madison, Wisconsin, and shall pay all claims for labor performed and material furnished in the prosecution of said work, and save the City harmless from all claims for damages because of negligence in the prosecution of said work, and shall save harmless the said City from all claims for compensation (under Chapter 102, Wisconsin Statutes) of employees and employees of subcontractor, then this Bond is to be void, otherwise of full force, virtue and effect.

Signed and sealed this _____day of _____

Countersigned:

_____
Company Name (Principal)

_____ _____
Witness President Seal

_____
Secretary

Approved as to form:

_____
Surety Seal
☐ Salary Employee ☐ Commission

_____ By _____
City Attorney Attorney-in-Fact

This certifies that I have been duly licensed as an agent for the above company in Wisconsin under National Producer Number _____ for the year _____, and appointed as attorney-in-fact with authority to execute this payment and performance bond which power of attorney has not been revoked.

_____ _____
Date Agent Signature

SECTION J: PREVAILING WAGE RATES

NOT APPLICABLE