BID OF_____

2014

PROPOSAL, CONTRACT, BOND AND SPECIFICATIONS

FOR

WINGRA CREEK PARKWAY, PHASE 3

CONTRACT NO. 6832
PROJECT NO. 53W0312

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

WINGRA CREEK PARKWAY, PHASE 3
CONTRACT NO. 6832

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: ss

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:	WINGRA CREEK PARKWAY, PHASE 3
CONTRACT NO.:	6832
SBE GOAL	14%
BID BOND	5%
PRE BID MEETING (1:00 P.M.)	OCTOBER 31, 2014
PREQUALIFICATION APPLICATION DUE (1:00 P.M)	OCTOBER 31, 2014
BID SUBMISSION (1:00 P.M.)	NOVEMBER 7, 2014
BID OPEN (1:30 P.M.)	NOVEMBER 7, 2014
PUBLISHED IN WSJ	10/24/14 & 10/31/14

PRE BID MEETING: Representatives of the Affirmative Action Department will be present to discuss the Small Business Enterprise requirements at 1600 Emil Street, Madison Wisconsin.

PREQUALIFICATION APPLICATION: Forms are available 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 - 2014 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.

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

2 Small Business Enterprise (SBE) Program Information

2.1 Policy and Goal

The City of Madison reaffirms its policy of nondiscrimination in the conduct of City business by maintaining a procurement process which remains open to all who have the potential and ability to sell goods and services to the City. It is the policy of the City of Madison to allow Small Business Enterprises (SBE) maximum feasible opportunity to participate in City of Madison contracting. The bidder acknowledges that its bid has been submitted in accordance with the SBE program and is for the public's protection and welfare.

Please refer to the "ADVERTISEMENT FOR BIDS" for the goal for the utilization of SBEs on this project. SBEs may participate as subcontractors, vendors and/or suppliers, which provide a commercially useful function. The dollar value for SBE suppliers or 'materials only' vendors shall be discounted to 60% for purposes of meeting SBE goals.

A bidder which achieves or exceeds the SBE goal will be in compliance with the SBE requirements of this project. In the event that the bidder is unable to achieve the SBE goal, the bidder must demonstrate that a good faith effort to do so was made. Failure to either achieve the goal or demonstrate a good faith effort to do so will be grounds for the bidder being deemed a non-responsible contractor ineligible for award of this contract.

A bidder may count towards its attainment of the SBE goal only those expenditures to SBEs that perform a commercially useful function. For purposes of evaluating a bidder's responsiveness to the attainment of the SBE goal, the contract participation by an SBE is based on the percentage of the total base bid proposed by the Contractor. The total base bid price is inclusive of all addenda.

Work performed by an SBE firm in a particular transaction can be counted toward the goal only if it involves a commercially useful function. That is, in light of industry practices and other relevant considerations, does the SBE firm have a necessary and useful role in the transaction, of a kind for which there is a market outside the context of the SBE Program, or is the firm's role a superfluous step added in an attempt to obtain credit towards goals? If, in the judgment of the Affirmative Action Division, the SBE firm will not perform a commercially useful function in the transaction, no credit towards goals will be awarded.

The question of whether a firm is performing a commercially useful function is completely separate from the question of whether the firm is an eligible SBE. A firm is eligible if it meets the definitional criteria and ownership and control requirements, as set forth in the City of Madison's SBE Program.

If the City of Madison determines that the SBE firm is performing a commercially useful function, then the City of Madison must then decide what that function is. If the commercially useful function is that of an SBE vendor / supplier that regularly transacts business with the respective product, then the City of Madison will count 60% of the value of the product supplied toward SBE goals.

To be counted, the SBE vendor / supplier must be engaged in selling the product in question to the public. This is important in distinguishing an SBE vendor / supplier, which has a regular trade with a variety of customers, from a firm which performs supplier-like functions on an ad hoc basis or for only one or two contractors with whom it has a special relationship.

A supplier of bulk goods may qualify as an eligible SBE vendor / supplier if it either maintains an inventory or owns or operates distribution equipment. With respect to the distribution equipment; e.g., a fleet of trucks, the term "operates" is intended to cover a situation in which the supplier leases the equipment on a regular basis for its entire business. It is not intended to cover a situation in which the firm simply provides drivers for trucks owned or leased by another party; e.g., a prime contractor, or leases such a party's trucks on an ad hoc basis for a specific job.

If the commercially useful function being performed is not that of a qualified SBE vendor / supplier, but rather that of delivery of products, obtaining bonding or insurance, procurement of personnel, acting as a broker or manufacturer's representative in the procurement of supplies, facilities, or materials, etc., only the fees or commissions will apply towards the goal.

For example, a business that simply transfers title of a product from manufacturer to ultimate purchaser; e. g., a sales representative who re-invoices a steel product from the steel company to the Contractor, or a firm that puts a product into a container for delivery would not be considered a qualified SBE vendor / supplier. The Contractor would not receive credit based on a percentage of the cost of the product for working with such firms.

Concerning the use of services that help the Contractor obtain needed supplies, personnel, materials or equipment to perform a contract: only the fee received by the service provider will be counted toward the goal. For example, use of a SBE sales representative or distributor for a steel company, if performing a commercially useful function at all, would entitle the Contractor receiving the steel to count only the fee paid to the representative or distributor toward the goal. This provision would also govern fees for professional and other services obtained expressly and solely to perform work relating to a specific contract.

Concerning transportation or delivery services: if an SBE trucking company picks up a product from a manufacturer or a qualified vendor / supplier and delivers the product to the Contractor, the commercially useful function it is performing is not that of a supplier, but simply that of a transporter of goods. Unless the trucking company is itself the manufacturer or a qualified vendor / supplier in the product, credit cannot be given based on a percentage of the cost of the product. Rather, credit would be allowed for the cost of the transportation service.

The City is aware that the rule's language does not explicitly mention every kind of business that may contribute work on this project. In administering these programs, the City would, on a case-by-case basis, determine the appropriate counting formula to apply in a particular situation.

2.2 Contract Compliance

Questions concerning the SBE Program shall be directed to the Contract Compliance Officer of the City of Madison Department of Civil Rights, Affirmative Action Division, 210 Martin Luther King, Jr. Blvd., Room 523, Madison, WI 53703; telephone (608) 266-4910.

2.3 Certification of SBE by City of Madison

The Affirmative Action Division maintains a directory of SBEs which are currently certified as such by the City of Madison. Contact the Contract Compliance Officer as indicated in Section 2.2 to receive a copy of the SBE Directory or you may access the SBE Directory online at www.cityofmadison.com/dcr/aaTBDir.cfm.

All contractors, subcontractors, vendors and suppliers seeking SBE status must complete and submit the **Targeted Business Certification Application** to the City of Madison Affirmative Action Division by the time and date established for receipt of bids. A copy of the Targeted Business Certification Application is available by contacting the Contract Compliance Officer at the address and telephone indicated in Section 2.2 or you may access the Targeted Business Certification Application online at www.cityofmadison.com/dcr/aaTBDir.cfm. Submittal of the Targeted Business Certification Application by the time specified does not guarantee that the applicant will be certified as a SBE eligible to be utilized towards meeting the SBE goal for this project.

2.4 Small Business Enterprise Compliance Report

2.4.1 Good Faith Efforts

Bidders shall take all necessary affirmative steps to assure that SBEs are utilized when possible and that the established SBE goal for this project is achieved. A contractor who self performs a portion of the work, and is pre-qualified to perform that category of work, may subcontract that portion of the work, but shall not be required to do so. When a bidder is unable to achieve the established SBE goal, the bidder must demonstrate that a good faith effort to do so was made. Such a good faith effort should include the following:

2.4.1.1 Attendance at the pre-bid meeting.

2.4.1.2 Using the City of Madison's directory of certified SBEs to identify SBEs from which to solicit bids.

2.4.1.3 Assuring that SBEs are solicited whenever they are potential sources.

2.4.1.4 Referring prospective SBEs to the City of Madison Affirmative Action Division for certification.

2.4.1.5 Dividing total project requirements into smaller tasks and/or quantities, where economically feasible, to permit maximum feasible SBE participation.

2.4.1.6 Establishing delivery schedules, where requirements permit, which will encourage participation by SBEs.

2.4.1.7 Providing SBEs with specific information regarding the work to be performed.

2.4.1.8 Contacting SBEs in advance of the deadline to allow such businesses sufficient time to prepare a bid.

2.4.1.9 Utilizing the bid of a qualified and competent SBE when the bid of such a business is deemed reasonable (i.e. 5% above the lowest bidder), although not necessarily low.

2.4.1.10 Contacting SBEs which submit a bid, to inquire about the details of the bid and confirm that the scope of the work was interpreted as intended.

2.4.2 Reporting SBE Utilization and Good Faith Efforts

The Small Business Enterprise Compliance Report is to be submitted by the bidder with the bid: This report is due by the specified bid closing time and date. Bids submitted without a completed SBE Compliance Report as outlined below

shall be deemed non-responsible and the bidder ineligible for award of this contract.

2.4.2.1 If the Bidder meets or exceeds the goal established for SBE utilization, the Small Business Enterprise Compliance Report shall consist of the following:

2.4.2.1.1 **Cover Page,** Page C-6; and
2.4.2.1.2 **Summary Sheet,** C-7.

2.4.2.2 If the bidder does not meet the goal established for SBE utilization, the Small Business Enterprise Compliance Report shall consist of the following:

2.4.2.2.1 **Cover Page,** Page C-6;
2.4.2.2.2 **Summary Sheet,** C-7; and
2.4.2.2.3 **SBE Contact Report,** C-8 and C-9. (A separate Contact Report must be completed for each applicable SBE which is not utilized.)

2.5 Appeal Procedure

A bidder which does not achieve the established goal and is deemed non-responsible for failure to demonstrate a good faith effort to achieve such goal and subsequently denied eligibility for award of contract may, within 72 hours of receiving such notification, appeal that decision to a special appeals committee composed of three (3) members of the Affirmative Action Commission, three (3) members of the Board of Public Works and a seventh member appointed by the Mayor. All appeals must be made in writing to the City Engineer and received within 72 hours of City of Madison's notice. Postmark not applicable.

2.6 SBE Requirements After Award of the Contract

The successful bidder shall identify SBE subcontractors, suppliers and vendors on the subcontractor list in accordance with the specifications. The Contractor shall submit a detailed explanation of any variances between the listing of SBE subcontractors, vendors and/or suppliers on the subcontractor list and the Contractor's SBE Compliance Report for SBE participation.

No change in SBE subcontractors, vendors and/or suppliers from those SBEs indicated in the SBE Compliance Report will be allowed without prior approval from the Engineer and the Affirmative Action Division. The contractor shall submit in writing to the City of Madison Affirmative Action Division a request to change any SBE citing specific reasons which necessitate such a change. The Affirmative Action Division will use a general test of reasonableness in approving or rejecting the contractor's request for change. If the request is approved, the Contractor will make every effort to utilize another SBE if available.

The City will monitor the project to ensure that the actual percentage commitment to SBE firms is carried out.

2.7 SBE Definition and Eligibility Guidelines

A Small Business Enterprise is a business concern awarded certification by the City of Madison. For the purposes of this program a Small Business Enterprise is defined as:

A. An independent business operated under a single management. The business may not be a subsidiary of any other business and the stock or ownership may not be held by any individual or any business operating in the same or a similar field. In determining whether an entity qualifies as a SBE, the City shall consider all factors relevant to being an independent business including, but not limited to, the date the business was established, adequacy of its resources for the work in which it proposes to involve itself, the degree to which financial, equipment leasing and other relationships exist with other ineligible firms in the same or similar lines of work. SBE owner(s) shall enjoy the customary incidents of ownership and shall share in the risks and profits commensurate with their enjoyment interests, as demonstrated by an examination of the substance rather than form or arrangements that may be reflected in its ownership documents.

B. A business that has averaged no more than $4.0 million in annual gross receipts over the prior three year period and the principal owner(s) do not have a personal net worth in excess of $1.32 million.

Firm and/or individuals that submit fraudulent documents/testimony may be barred from doing business with the City and/or forfeit existing contracts.

SBE certification is valid for one (1) year unless revoked.

WINGRA CREEK PARKWAY, PHASE 3
CONTRACT NO. 6832

Small Business Enterprise Compliance Report

This information may be submitted electronically through Bid Express or submitted with bid in sealed envelope.

Cover Sheet

Prime Bidder Information

Company:_____

Address:_____

Telephone Number:_____ Fax Number:_____

Contact Person/Title:_____

Prime Bidder Certification

I, _____, _____ of
Name Title

_____ certify that the information
Company

contained in this SBE Compliance Report is true and correct to the best of my knowledge and belief.

_____ _____
Witness' Signature Bidder's Signature

_____
Date

WINGRA CREEK PARKWAY, PHASE 3
CONTRACT NO. 6832

Small Business Enterprise Compliance Report

Summary Sheet

SBE Subcontractors Who Are NOT Suppliers

Name(s) of SBEs Utilized	Type of Work	% of Total Bid Amount
		%
		%
		%
		%
		%
		%
		%
		%
		%
		%
		%
		%
		%

Subtotal SBE who are NOT suppliers: _____ %

SBE Subcontractors Who Are Suppliers

Name(s) of SBEs Utilized	Type of Work	% of Total Bid Amount
		%
		%
		%
		%
		%
		%

Subtotal Contractors who are suppliers: _____ % x 0.6 = _____ % (discounted to 60%)

Total Percentage of SBE Utilization: _____%.

WINGRA CREEK PARKWAY, PHASE 3
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Small Business Enterprise Compliance Report

SBE Contact Report

Submit separate copy of this form for each SBE which you are not able to utilize towards meeting the SBE goal for this project. Attach separate sheets if necessary.

SBE Information

Company: _____

Address: _____

Telephone Number: _____

Contact Person/Title: _____

1. Outline below all efforts to solicit a bid from the above SBE. Include date, means of contact, who from your company made this contact and the result.

   _____

   _____

   _____

2. Describe the information provided to the aforementioned SBE regarding the scope of work for which he/she was to provide a bid.

   _____

   _____

   _____

   Is this the same scope of work on which the subcontractor you intend to utilize based his/her bid?

   ☐ Yes ☐ No

3. Did this SBE submit a bid? ☐ Yes ☐ No

4. Is the General Contractor pre-qualified to self-perform this category of work?

   ☐ Yes ☐ No

5. If you responded “Yes” to Question 3, please check the items below which apply and provide the requested detail. If you responded “No” to Question 3, please skip ahead to item 6 below.

☐ The SBE listed above is unavailable for work on this project for the following reasons. Provide specific detail for this conclusion.

_____

_____

☐ The SBE listed above is unqualified for work on this project. Provide specific details for this conclusion.

_____

_____

☐ The SBE listed above provided a price that was unreasonable (i.e. more than 5% above the lowest bidder). Provide specific detail for this conclusion including the SBE’s price and the price of the subcontractor you intend to utilize.

_____

_____

☐ A contract with the SBE listed above may constitute a breach of the bidder’s collective bargaining agreements. Provide specific detail for this conclusion including, but not limited to, correspondence from the SBE indicating it will not sign a project labor agreement and/or correspondence from the applicable trade union indicating a project labor agreement will not be allowed at the time of project bidding.

_____

_____

☐ Other; please specify reason(s) other than listed above which made it impossible for you to utilize this SBE on this project.

_____

_____

6. Describe any other good faith efforts:

_____

_____

SECTION D: SPECIAL PROVISIONS

WINGRA CREEK PARKWAY, PHASE 3
CONTRACT NO. 6832

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 102.10: 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 $54,000 for a single trade contract; or equal to or greater than $264,500 for a multi-trade contract pursuant to MGO 33.07(7).

ARTICLE 104: SCOPE OF WORK

This contract consists of dredging and stabilizing approximately 2000 linear feet of Wingra Creek. The project is located between the Union Pacific Railroad Bridge and Olin Avenue. Work for this project will also include constructing six littoral shelves in a meandering pattern.

In conjunction with this project, the Contractor shall excavate approximately 1700 cubic yards from the John Nolen Retention Pond. This work may be completed prior to, during, or after the channel work.

Following work on the channel and banks, the bike path on the northwest side of the channel will pulverized, shaped, and resurfaced.

The Contractor shall view all associated project sites prior to bidding to become familiar with the existing conditions. It will be the responsibility of the Contractor to work with the utilities located in the right of way to resolve conflicts during the construction process.

SECTION 105.1: AUTHORITY OF THE ENGINEER

The Engineer shall resolve all questions which arise as to the quality and acceptability of materials furnished, work performed, manner of performance, rate of progress of the work, interpretation of the plans and Specifications, acceptable fulfillment of the contract, compensation, and disputes and mutual rights between Contractors under the Specifications. The Engineer shall determine the amount and quantity of work performed and materials furnished.

All decisions of the Engineer shall, when so requested, be rendered in writing. They shall be final and conclusive in all matters unless within ten (10) days after such decision the Contractor applies in writing to the Board of Public Works for a review of such decision.

Any change proposed by a Contractor in SBE subcontractors, vendors or suppliers from those SBEs indicated on the SBE Compliance Report must be approved by the Engineer and the City's Manager of the Affirmative Action Division (hereafter, AAD). When requested, such decision shall be rendered in writing. Such decisions shall be final and conclusive in all matters unless within ten (10) days after such decision the Contractor or the affected SBE applies in writing to the Board of Public Works for a review of such decision.

In the event the Engineer and the AAD disagree over the proper decision to be made regarding an SBE, the Mayor shall appoint a third person to resolve the disagreement, within 30 days of appointment. The decision thus rendered may be reviewed by the Board of Public Works upon request of the Contractor or the affected SBE as set forth in Sections 105.1 and 105.2 of the City's standard specifications.

SECTION 105.12: COOPERATION BY THE CONTRACTOR

This contract provides the Contractor a significant window in which to complete the defined work. It is not intended that Contractor use the entire time provided. Rather, it is intended that the Contractor complete this work during favorable weather conditions and water levels. The Contractor will be allowed to suspend the project, if necessary, due to weather, channel, or permit conditions. However, for each shut-down required or requested, the Contractor shall provide a shut-down plan, which shall be submitted to the Project Engineer for approval.

The pedestrian bridge is rated to 10,000 lbs. The bridge shall not be used as access to the site, and shall be protected during the project.

The Contractor shall use care around existing trees, plantings, fences, abutments, and other features. Damage to these items during construction shall be repaired or replaced at the Contractor's expense. No trees, other than those shown on the plan or marked in the field shall be removed without the approval of the Engineer.

Several utilities exist on site. The Contractor shall perform a One Call through Digger's Hotline for each site at least three days prior to beginning construction. To ensure that Parks-owned utilities are also marked, include the park name at the beginning of the Marking Instructions field on the ticket, and send a copy of the ticket to the City of Madison Parks Surveyor, Dan Rodman (drodman@cityofmadison.com or (608) 266-6674).

SECTION 105.13: ORDER OF COMPLETION

The Contractor shall begin construction at the upstream project limits, near the Union Pacific Railroad bridge and progress downstream in an orderly manner. Work shall be completed as construction progresses downstream. Specifically, stone shall be placed on the banks as soon as possible following dredging. Littoral Shelves shall be completed individually, and as soon as possible following dredging. Topsoil, seeding, and matting shall occur immediately following littoral shelf construction.

Upland areas used for hauling and stockpiling, do not need to be stabilized until project work is complete, but shall be protected from erosion with silt sock, silt fence, polymer, or as directed by the Construction Engineer.

The Contractor shall submit for approval, a project schedule. If a shut-down is anticipated, the Contractor shall also submit a shut-down plan for approval.

Work can begin as soon as project permits are approved. Please contact Sally Swenson, the Project Engineer, for an updated permit schedule.

The Contractor may complete the John Nolen Retention Pond excavation separately from the channel work. The John Nolen Retention pond excavation shall be completed within the allowed contract time.

Permit stipulations require that no work be completed in the channel between March 15, 2015 and May 15, 2015. The Contractor may choose to work prior to March 15th, prepare the site for a shutdown, and finish at a later date. All proposed construction schedules shall be approved by the Project Engineer.

SECTION 107.7: MAINTENANCE OF TRAFFIC

All traffic control shall conform to Part VI of the Federal Highways Administration's "Manual on Uniform Traffic Control Devices" (MUTCD), the State of Wisconsin Standard Facilities Development Manual (including Chapter 16 – Standard Detail Drawings) and the City of Madison Standards for Sidewalk and Bikeway closures.

The Contractor shall submit an acceptable, complete Traffic Control Plan, including all necessary phases and any required sidewalk or bike route closures, to the office of the City Traffic Engineer, at 215 Martin Luther King Jr. Blvd. Suite 100, Madison, WI 53703, a minimum of five (5) working days prior to the pre-construction meeting. The Traffic Control Plan shall address all requirements of this section of the Special Provisions. The Contractor shall not start work on this project until the Traffic Engineering Division has approved a traffic control plan and traffic control devices have been installed, in accordance with the approved plan. Failure of the Contractor to obtain an approved Traffic Control Plan, as specified above, may prevent the Contractor from starting work and shall be considered a delay of the project, caused by the Contractor. Please contact Luke Peters at lpeters@cityofmadison.com or (608) 267-1969.

The Contractor will be responsible for installing and maintaining traffic control in accordance with the traffic control plan and as directed by the City Traffic Engineer. The Contractor shall install and maintain modifications or additions to the traffic control, as directed by the City Traffic Engineer, at no cost to the City.

The Contractor shall access the site from the bike path adjacent to Wingra Creek Parkway, on the northwest side of the channel, and from the park areas on the southeast side of the channel. The Contractor shall minimize and isolate traffic across the park path on the southeast side of Wingra Creek to minimize damage to the path.

For the majority of the project, bike traffic shall be rerouted to Wingra Creek Parkway. The Contractor shall provide a durable, smooth surface to transition between the existing path and Wingra Creek Parkway.

When working between Stations 0+00 and 2+00 on the northwest side of the channel, the Contractor shall provide a signed detour for the bike path, as shown on Sheet TC-1. The signed detour shall be limited to 30 days in duration and shall occur prior to April 1, 2015, unless the Contractor has an approved traffic control plan stating an alternative time frame.

Bike path traffic on the park path adjacent to Quann Soccer Fields and Quann Park shall be rerouted for the duration of the project. The Contractor shall provide a signed detour, as shown on Sheet TC-2.

The Contractor is permitted to close one lane of traffic on John Nolen Drive for the construction and removal of curb protection, in order to access the John Nolen Retention Pond site. Placement and removal of curb protection shall occur on a weekday during non-peak hours, between 9 am and 3 pm. All travel lanes on John Nolen Drive shall remain open at all other times. Additionally, the Contractor shall take all necessary precautions to keep the travel lanes on John Nolen Drive free of debris, rocks, or other project materials. The Contractor shall provide a traffic control plan for the lane closure on John Nolen Drive, which must be approved by Traffic Engineering prior to the start of work.

SECTION 107.8: NOTIFICATION WHEN CLOSING STREET

The Contractor shall not remove traffic signs. For removal or replacement of traffic and parking signs, contact the City of Madison Traffic Engineering Field Operations, 1120 Sayle Street, 266-4767, 8:00 a.m. to 4:00 p.m., a minimum of twenty-four (24) hours in advance of when any existing signs need to be removed. This service is provided free of charge. If the Contractor removes the signs, the Contractor will be billed for the reinstallation of, and any damage to, the signing equipment.

SECTION 107.13: TREE PROTECTION SPECIFICATIONS

The Contractor is advised to review Article 107.13 of the Standard Specifications for tree protection. Note that Articles 107.13(b) Curb Excavation and Installation, 107.13(c) Sidewalk Excavation and Installation, are not applicable to this project. Other sections are applicable except as provided below.

All trees shall be saved except those trees marked for removal on the plans. It is recognized that grading operations and root cutting of trees within the project limits may need to occur within 5 feet of trees in order to complete the work, but care must be taken in these areas. Roots shall be cut cleanly by using a saw, axe, lopping shears, chain saw, stump grinder, or other means which will produce a clean cut. Exposed roots shall be covered as soon as excavation is complete. The Contractor shall not rip or pull roots out towards the trunk of a tree while excavating with a backhoe. The use of a backhoe to cut roots is NOT acceptable. Grading within 5' of the trees within the construction area, if absolutely required, shall be minimized.

With regard to Article 107.13(f), pruning to accommodate construction equipment invading the tree crown may be done by the Contractor, with advance permission from the Construction Engineer. No pruning will be performed by City Forestry. All pruning shall be done according to ANSI A300 tree pruning specifications.

With regard to Article 107.14(g), no equipment or materials will be allowed to be parked on, or piled on areas within 5 feet of a tree. Construction traffic within 5 feet of a tree will be allowed only where necessary to complete grading operations, as described above, at the discretion of the Construction Engineer.

SECTION 108.2: PERMITS

The following permits have been applied for (each of the two projects has separate permits):

1. Army Corps of Engineers Permit for work in public waters –Non-Reporting permit
2. WI-DNR Chapter 30 Permit (Applied for but not yet received)
3. WI-DNR WRAPP Water Resources Application for Project Permit, formerly known as a Notice of Intent NOI) for construction site erosion control - received
4. City of Madison Erosion Control and Stormwater Management Permit – received

Contractor may not begin work until DNR Chapter 30 permit is received.

It shall be the responsibility of the Contractor to obtain the permits listed below, if required, and to pay all applicable charges and fees associated with these permits.

- Wisconsin DNR Dewatering

All permit costs shall be considered incidental to the various Mobilization bid items for the Contract.

The Contractor shall meet the conditions of all permits and must keep a copy of each individual permit on site at all times throughout construction.

With regard to Control of Invasive or Exotic Species, the Chapter 30 permit will stipulate that any equipment or materials that may be in contact with invasive or exotic species must be decontaminated prior to and after work at the project site. It shall be the Contractor's responsibility to comply with decontamination requirements.

The Contractor shall meet the conditions of the permits involving including properly installing and maintaining the erosion control measures shown on the plans, specified in these Special Provisions, or as directed by the Construction Engineer or his designees. This work will be paid for under the appropriate bid items, or if appropriate items are not included in the contract, they shall be paid for as Extra Work.

The City's obtaining these permits is not intended to be exhaustive of all permits that may be required to be obtained by the Contractor for construction of this project. It shall be the responsibility of the Contractor to identify and obtain any other permits needed for construction.

SECTION 109.2: PROSECUTION OF WORK

The Contractor shall begin work on or before **January 15, 2015.** The contract completion date shall be **December 18, 2015.** This contract provides the Contractor a significant window in which to complete the defined work. It is not intended that Contractor use the entire time provided. Rather, it is intended that the Contractor complete this work during favorable weather conditions and water levels.

Work shall begin only after the start work letter is received. The Contractor shall limit workdays from 7:00 am to 7:00 pm, Monday through Saturday, unless approved by the Engineer in writing.

Permit stipulations prohibit work in the channel between March 15 and May 15. The Contractor may begin work prior to March 15, provided that a shut-down plan detailing the methods used to stabilize the site, is submitted to and approved by the Project Engineer. Work is permitted to occur in the areas outside of the ordinary high water mark between March 15 and May 15.

BID ITEM 10911: MOBILIZATION

DESCRIPTION

This item shall include all work necessary to mobilize and de-mobilize all equipment, personnel, and incidentals to all portions of this project, including Wingra Creek, Quann Soccer Fields, and the John Nolen Retention Pond.

If a shut-down is required to complete the project, costs associated with preparing a shut-down plan, closing the site for the duration of the shut-down, and re-mobilizing to resume project activities shall be included in this bid item.

METHOD OF MEASUREMENT

Mobilization shall be measured as a Lump Sum.

BASIS OF PAYMENT

Mobilization shall be measured as described above which shall be full compensation for all work, materials, and incidentals required to complete the work as described above.

BID ITEM 20201: EXCAVATION CUT

DESCRIPTION

Excavation Cut shall include all excavation from within the limits shown on the plans. Excavation cut shall be limited to the material generated from the John Nolen Retention Pond. All material generated from Wingra Creek shall be paid for via Bid Item 90033, Dredging.

Excavation shall be completed to the dimensions shown on Sheet P-7. This excavation is occurring to provide compensatory cut for fill occurring within the flood plain associated with construction of the littoral shelves. Therefore, it is unnecessary to meet exact grades and locations with this excavation. Survey verification of the excavation will not be required.

It is anticipated that the material generated in the excavation of the John Nolen Retention Pond will not be suitable for use as fill in littoral shelf construction. If topsoil quality soil is generated from this excavation, it may be used as topsoil in other areas of the project after approval from the Project Engineer or Construction Engineer.

The Contractor shall be responsible for determining a suitable off-site disposal location for excess excavated materials, and shall be responsible for hauling unsuitable material away from the site and for placement at the disposal site. This material shall be hauled in water-tight trucks.

A significant quantity of cattail is currently growing in the area of the proposed excavation. The removal of the vegetation is considered incidental to this bid tiem.

Any undercut or excavation directed by the Engineer beyond the limits shown on the plans shall be measured in the field and paid for as Excavation Cut.

Excavation 1700 cy

METHOD OF MEASUREMENT

Excavation Cut within the limits shown on the plans will be paid for based on the Cubic Yard as measured per truck. A uniform 6 percent bulking factor shall be applied to all excavated material; therefore, the Contractor shall remove 1802 cubic yards of material from the site. A per truck quantity will be mutually agreed upon by the Contractor, Construction Engineer, and Project Engineer at the preconstruction meeting.

BASIS OF PAYMENT

Excavation shall be paid for at the contract price for work as described and measured above which shall be full compensation for all labor, tools, equipment, and incidentals necessary to complete this item of work.

BID ITEM 20221: TOPSOIL

DESCRIPTION

Work under this item shall include placement of topsoil within the seeding limits shown on the drawings or as directed by the Engineer in the field, in accordance with Section 202 of the Standard Specifications. Topsoil shall be placed on all disturbed areas, including on newly constructed littoral shelves, four (4) inches thick per the Standard Specifications. Topsoil materials and placement shall be in accordance with Article 202 – Fill.

Salvaged topsoil from on site meeting the specifications may be reused. In some areas the existing topsoil thickness may be adequate and no additional topsoil may be required; however, scarifying of the

existing topsoil may be required and shall be considered incidental to this bid item. If insufficient topsoil is available on site, the Contractor shall import topsoil.

This bid item is intended to accommodate all topsoil activities, including stripping, stockpiling, and replacing topsoil in the areas adjacent to Wingra Creek. Topsoil maintenance associated with dewatering the dredged materials and regrading of Quann Soccer Fields shall be paid under Bid Item 90004.

Topsoil shall not be stockpiled adjacent to the channel, or at elevations below 848 feet.

METHOD OF MEASUREMENT

Topsoil within the limits shown on the plan set shall be paid per Square Yard, based on "plan quantity" as shown in the contract without measurement thereof. The plan quantity was computed by measuring all areas between the bike path and channel, on both sides of the channel. Additionally, the Topsoil plan quantity includes the design dimensions of the littoral shelves, as topsoil is to be placed on the newly constructed shelves.

BASIS OF PAYMENT

Topsoil shall be paid at the contract price for work as described and measured above, which shall be full compensation for all labor, tools, equipment, and incidentals necessary to complete this item of work, including segregating, stockpiling, and preparing salvaged topsoil, furnishing topsoil from off-site as needed, placing, grading and raking finished surface.

BID ITEM 20401: CLEARING

DESCRIPTION

Work under this item shall include removal of trees indicated on the plans for removal. Prior to construction, trees will be marked in the field with pink paint by City Engineering. Tree sizes noted on the plans are approximate. Any questions or concerns about the removal of particular trees shall be brought promptly to the attention of the Engineer. Clearing shall be as described in the Standard Specifications except as noted below.

All clearing shall be done by sawing trees near the ground line. Under no circumstances is the Contractor permitted to pull trees from the ground or use methods which will significantly disturb existing root systems. Grubbing shall be done with stump grinding equipment, except as noted in Bid Item 20403.

Trees four (4) inches in diameter and smaller, shrubs, brush, windfalls, logs and other vegetation to be removed shall be paid separately under Bid Item 20405 - Brush Clearing. Contractor is strongly encouraged to visit the site prior to bidding in order to become familiar with site access and the quantity of tree removal.

Removal of large tree falls within Wingra Creek will be paid under this bid item.

The Contractor shall be responsible for the proper disposal of the material.

METHOD OF MEASUREMENT

Clearing will be measured per Inch Diameter, as set forth in the Standard Specifications.

BASIS OF PAYMENT

The contract unit price for Clearing per inch diameter shall be payment in full for furnishing all labor and equipment for all clearing actually performed, and for the handling and disposal of all debris resulting from clearing and grubbing.

BID ITEM 20403: GRUBBING

DESCRIPTION

Work under this item shall include grubbing following removal of trees indicated on the plans for removal, including the trees marked for removal to provide an access route to the John Nolen Retention Pond. Tree sizes noted on the plans are approximate. Only stumps that directly interfere with channel dredging or creek bank grading shall be excavated. All other stumps shall be ground with stump grinding equipment, or cut within 2 inches of the ground surface and treated with an appropriate herbicide. Herbicide application shall occur in accordance with the manufacturer's recommendations and the City of Madison Policy Regarding Pest Management on City Property. The Contractor shall submit for approval documentation of the type of herbicide, along with the MSDS, to the Project Engineer prior to the start of tree removal. Herbicides containing Triclopyr, Glyphosphate, or similar chemicals are recommended. Herbicides containing Picloram will not be approved.

Under no circumstances is the Contractor permitted to pull trees from the ground or use methods which will significantly disturb existing root systems, except as noted above.

Fill required to backfill holes where stumps are removed shall be considered incidental to this bid item.

Trees four (4) inches in diameter and smaller, shrubs, brush, windfalls, logs and other vegetation to be removed shall be paid separately under Bid Item 20405 - Brush Clearing.

METHOD OF MEASUREMENT

Grubbing will be measured per Inch Diameter, as set forth in the Standard Specifications.

BASIS OF PAYMENT

The contract unit price for Grubbing per inch diameter shall be payment in full for furnishing all labor, equipment, and incidentals necessary to excavate, grind, or treat stumps remaining from clearing activities.

BID ITEM 20405: BRUSH CLEARING

DESCRIPTION

This item shall include clearing of all brush, trees 4 inches in diameter or smaller, fallen logs, debris, and herbaceous vegetation within the grading limits. The Contractor is strongly encouraged to visit the site prior to bidding in order to become familiar with site access and the quantity of brush removal.

Brush clearing shall consist of removing all unmarked small trees, brush, shrubs, and herbaceous vegetation and completely removing them from site. Smaller trees and brush shall be removed within 1 inch below proposed finished grades. Any fill required to backfill holes where stumps are removed shall be considered incidental to this bid item. All clearing shall be done by sawing brush near the ground line. Under no circumstances is the Contractor permitted to pull trees from the ground or use methods which will significantly disturb existing root systems.

This item shall include removal of windfalls, debris, and logs present within the work area. This item shall also include any trimming of trees and brush by contractor to facilitate access, where approved by the Construction Engineer.

The Contractor shall be responsible for the proper disposal of the material.

METHOD OF MEASUREMENT

This item shall be measured as a Lump Sum.

BASIS OF PAYMENT

This work, measured as provided above, will be paid for at the contract price which shall be considered full compensation for furnishing all labor and equipment for all brush clearing performed, and for the handling and disposal of all debris resulting from brush clearing.

BID ITEM 21061: EROSION MATTING CLASS I - URBAN TYPE A

DESCRIPTION

Work under this bid item shall include provision and installation of Class I Urban Type A Erosion Control Revegetative Mat (ECRM). Class I, Urban Type A matting shall be placed on all disturbed areas above the ordinary high water mark adjacent to Wingra Creek. Littoral shelves will be stabilized with Erosion Matting, Class II Type C – Organic matting.

Class I Urban Type A matting shall be placed on all restored haul routes between Wingra Creek and Quann Soccer Fields, but shall be considered incidental to Bid Item 90033, Dredging.

METHOD OF MEASUREMENT

Erosion Matting Class I, Urban Type A within the limits shown on the plan set shall be paid per Square Yard, based on "plan quantity" as shown in the contract without measurement thereof. The plan quantity was computed by measuring all areas between the bike path and existing channel bank, on both sides of the channel. The Contractor shall perform their own calculations to provide additional material necessary for overlapping seams, etc.

BASIS OF PAYMENT

Erosion Matting Class I – Urban Type A shall be paid at the contract price for work as described and measured above, which shall be full compensation for all labor, tools, equipment, and incidentals necessary to provide and install the matting in accordance with manufacturer's recommendations.

BID ITEM 21073: EROSION MATTING CLASS II, TYPE C - ORGANIC

DESCRIPTION

Work under this bid item shall include provision and installation of Class II, Type C – Organic Erosion Control Revegetative Mat (ECRM). Class II, Type C – Organic matting shall be used in two locations during construction of the littoral shelves. First, Class II matting shall be placed between the existing creek bed and fill material. In this application, Dekowe 900 or GeoCoir 900 shall be selected from the Product Acceptability List. These materials were chosen because they have a smaller weave and are 100% biodegradable. An alternate material that meets these criteria may be proposed for this location, subject to the approval of the Project Engineer.

Class II, Type C – Organic matting shall also be placed over the newly constructed littoral shelves. The Contractor shall toe the Class II matting into the fill material, immediately behind the stone bank stabilization material, in order to provide a stable anchorage for the matting. Class II matting will stop at the edge of the existing bank, and will transition to Class I, Urban Type A matting.

METHOD OF MEASUREMENT

Erosion Matting Class II, Type C - Organic shall be paid per Square Yard, based on "plan quantity" as shown in the contract without measurement thereof. The plan quantity was computed by measuring the approximate design area of the littoral shelves. The Contractor shall perform their own calculations to provide additional material necessary for overlapping seams, etc.

BASIS OF PAYMENT

Erosion Matting Class II, Type C - Organic shall be paid at the contract price for work as described and measured above, which shall be full compensation for all labor, tools, equipment, and incidentals necessary to provide and install the matting in accordance with manufacturer's recommendations.

BID ITEM 90001 - TEMPORARY FENCING

DESCRIPTION

This item includes installation of temporary construction fencing at the locations shown on the drawing, or as directed in the field by the Construction Engineer. The intent of this item is to delineate the area to which the Contractor shall confine their operations, to protect trees, and to direct the public away from construction areas. Minor relocation of fencing may be required as the work progresses. No extra payment shall be made for temporarily opening and re-closing the fence, or minor relocation of the fencing as needed to perform the work.

Construction fencing shall be International Orange color, high-density polyethylene mesh conforming to the following:

- Mesh opening: 1 inch min to 3 inch max
- Height: 4 feet
- Ultimate tensile strength: Avg 3000 lb per 4' width (ASTM D638)

Posts shall be conventional metal "T" or "U" shaped posts. Fencing shall be installed according to the manufacturer's recommendations.

METHOD OF MEASUREMENT

Temporary fencing shall be measured per Linear Foot installed, maintained, and removed in the field.

BASIS OF PAYMENT

Cost for temporary fencing shall be paid at the contract unit price. Price shall include payment for providing and installing temporary fence and appurtenances, maintenance of fencing as required, creating and closing temporary openings as needed, and removal of fencing and appurtenances, including furnishing all labor, tools, equipment, and incidentals necessary to perform the work.

BID ITEM 90002 – CONSTRUCTION SURVEYING

DESCRIPTION

The Contractor shall be responsible for setting and verifying all grades within the dredge area in Wingra Creek, for the construction of the littoral shelves in accordance with the plan set, and for recording the final grades of the regraded Quann Soccer Fields.

The Contractor shall be responsible for configuring the Microstation file to a usable format in order to create nodes, alignments, or other useful data to facilitate surveying and staking.

The Contractor shall use the established horizontal and vertical control points as provided by the City of Madison. The Contractor shall run a level circuit for the project in order to check for accuracy. If GPS is used to establish vertical and horizontal control, the Contractor shall provide a check on accuracy by checking established control locations. If vertical control is established using GPS, the vertical control must be distributed across the site using conventional level circuits.

The vertical datum for this project is National Geodetic Vertical Datum of 1988, 2007 revision.

City Engineering will provide control points and will be checking accuracy to provide quality control.

METHOD OF MEASUREMENT

Construction Surveying shall be measured as a Lump Sum for work completed in the field.

BASIS OF PAYMENT

Construction Surveying shall be measured as described above and shall be paid at the contract unit price, which shall constitute full compensation for all work, materials, and incidentals required to complete the work defined in this bid item.

BID ITEM 90003 – REMOVE AND REPLACE STEEL PLATE BEAM GUARD

DESCRIPTION

Work under this bid item shall include the removal and replacement of beam guard along John Nolen Drive, in order to accommodate access to the John Nolen Retention Ponds. The Contractor may salvage the existing beam guard, provided the materials are in good condition both before after removal. The Construction Engineer shall approve the reuse of all materials. The Contractor need only remove sufficient beam guard to provide access for their equipment.

If existing beam guard cannot be salvaged, the Contractor shall provide sufficient and acceptable materials for replacement of the beam guard. Material provision, as necessary, shall be considered incidental to this bid item.

The beam guard shall be replaced in accordance with Wisconsin DOT Standard Detail Drawing 14 B 15-8, or to match existing conditions.

The current Standard Detail Drawing can be found here:

http://roadwaystandards.dot.wi.gov/standards/fdm/SDD/14b15.pdf#1

METHOD OF MEASUREMENT

Remove and Replace Steel Plate Beam Guard shall be measured per Linear Foot of beam guard removed and replaced in the field.

BASIS OF PAYMENT

Remove and Replace Beam Guard shall be measured as described above and shall be paid at the contract unit price, which shall constitute full compensation for all work, materials, and incidentals required to complete the work defined in this bid item.

BID ITEM 90004 – QUANN SOCCER FIELD TOPSOIL AND SEEDING

DESCRIPTION

Work under this bid item shall include all labor, equipment, materials, and incidentals necessary to strip the existing topsoil from within the grading limits at Quann Soccer field. The topsoil shall be shaped into a stable berm and seeded with No Mow Turf seed mix as defined Article 207 of the Standard Specifications. The seeding shall be completed in accordance with Article 207, including the use of fertilizer and a cover crop, if necessary. Mulching is not necessary for the topsoil berm.

The topsoil berm shall be maintained in good condition for the duration of the project.

After the dredged materials have been graded in accordance with the plans, the topsoil shall be redistributed over all disturbed areas, seeded, fertilized, and matted with straw mulch. The final seeding

for the Quann Soccer Fields shall be completed using Sun Terrace Seed Mix in accordance with Article 207 of the Standard Specifications. The Contractor shall note that seeding and placement of the stockpiled topsoil shall be included with this bid item and will not be paid for per the square yard, as is customary on City projects. Prior to seed placement, City Parks shall approve final grading. The Contractor shall contact Richard Bergmann at (608) 513-3567 and have Mr. Bergmann inspect the site.

METHOD OF MEASUREMENT

Quann Soccer Field Topsoil and Seeding shall be measured as a Lump Sum.

BASIS OF PAYMENT

Quann Soccer Field Topsoil and Seeding shall be measured as described above and shall be paid at the contract unit price, which shall constitute full compensation for stripping, stockpiling, temporary seeding, and replacing topsoil on the Quann Soccer Fields. Final seeding and mulching shall be included with this bid item.

BID ITEM 90005 – CHAIN LINK FENCE

DESCRIPTION

This bid item shall include all work, materials, labor, and incidentals required to install new chain link fence along the southwest boundary of the dog park adjacent to Wingra Creek, as shown on the plan set. The chain link fence shall be installed accordance with the detail shown on Sheet D-2. The fence is being removed solely to facilitate construction access. The Contractor may choose to not remove the fence, or salvage any portion of the existing fence. If removed, the fence shall be re-installed in exactly the same configuration as currently exists, including the size and location of the gate. The Construction Engineer shall approve the condition of all reused materials.

METHOD OF MEASUREMENT

Chain Link Fence shall be measured by the Linear Foot of fence installed in the field.

BASIS OF PAYMENT

Chain Link Fence shall be measured as described above and shall be paid for at the unit price, which shall be considered full compensation for furnishing, hauling, stockpiling as needed, and placing the fence and gate. This shall include all equipment, tools, labor, and incidentals necessary to complete the work as set forth in this description.

BID ITEM 90006 – SEEDING – WETLAND EMERGENT

DESCRIPTION

Work under this bid item shall include provision and placement of the seed mix defined below at the locations shown in the plan set. It is the intent that Wetland Emergent seed mix be placed on the portion of littoral shelf (a 10-12 foot strip, approximately) that is immediately adjacent to the channel. Seeding shall be completed in accordance with Article 207 of the Standard Specifications, including the use of fertilizer, polymer, and a cover crop if necessary. Following seeding, the site shall be stabilized with erosion control matting, which shall be paid separately under the appropriate bid item.

The seed mix, as defined below, was provided by Agrecol in Madison, Wisconsin (608-223-3571). The Contractor may choose to use an alternate supplier, but shall submit the seed mix and supplier contact information to the Project Engineer for approval.

Wetland Emergent Seed Mix		
4.00 PLS lbs/acre		
113.00 PLS seeds/square foot		
Wildflowers		oz/acre
Acorus calamus	Sweet Flag	5.00
Alisma subcordatum	Common Water Plantain	2.00
Iris virginica	Blue Flag Iris	3.50
Mimulus ringens	Monkey Flower	0.20
Sagittaria latifolia	Arrowhead	2.00
Sparganium Eurycarpum	Gian Bur-Reed	6.00
Grasses, Sedges & Rushes		oz/acre
Calamagrostis canadensis	Blue Joint Grass	1.25
Carex Comosa	Bristly Sedge	5.00
Carex crinita	Fringed Sedge	2.00
Carex hystericina	Porcupine Sedge	5.00
Glyceria Grandis	Reed Manna Grass	3.00
Glyceria striata	Fowl Manna Grass	2.00
Juncus effusus	Common Rush	0.30
Leersia oryzoides	Rice Cut Grass	4.00
Scirpus acutus	Hard-Stemmed Bulrush	1.00
Scirpus atrovirens	Dark-Green Bullrush	2.00
Scirpus cyperinus	Wool Grass	0.75
Scirpus fluviatilis	River Bullrush	2.50
Scirpus pendulus	Red Bullrush	1.00
Scirpus validus	Sotf-Stem Bullrush	2.50
Spartina pectinata	Prairie Cord Grass	13.00

METHOD OF MEASUREMENT

Seeding – Wetland Emergent within the limits shown on the plan set shall be paid per Square Yard, based on "plan quantity" as shown in the contract without measurement thereof.

BASIS OF PAYMENT

Seeding – Wetland Emergent shall be measured as described above and shall be paid at the contract unit price, which shall constitute full compensation for provision and placement of seed as defined in this section and Article 207 of the Standard Specifications.

BID ITEM 90007 – SEEDING – FLOOD PLAIN

DESCRIPTION

Work under this bid item shall include provision and placement of the seed mix defined below at the locations shown in the plan set. It is the intent that Flood Plain seed mix be placed in the transition zone between the ordinary high water mark and the Wetland Emergent seed zone. Seeding shall be completed in accordance with Article 207 of the Standard Specifications, including the use of fertilizer, polymer, and a cover crop if necessary. Following seeding, the site shall be stabilized with erosion control matting, which shall be paid separately under the appropriate bid item.

The seed mix, as defined below, was provided by Agrecol in Madison, Wisconsin. The Contractor may choose to use an alternate supplier, but shall submit a seed mix to the Project Engineer for approval.

Flood Plain Seed Mix		
8.00 PLS lbs/acre		
82.00 PLS seeds/square foot		
Wildflowers		oz/acre
Alisma subcordatum	Common Water Plantain	1.00
Asclepias incarnata	Marsh Milkweed	3.00
Aster novae-angliae	New England Aster	1.00
Aster puniceus	Red-Stemmed Aster	1.00
Eupatorium maculatum	Spotted Joe Pye Weed	1.00
Eupatorium perfoliatum	Boneset	0.50
Helenium autumnale	Sneezeweed	0.30
Helianthus grosseserratus	Saw-Tooth Sunflower	0.50
Liatris spicata	Marsh Blazing Star	3.00
Lobelia cardinalis	Cardinal Flower	0.30
Lobelia siphilitica	Great Blue Lobelia	0.35
Pycnanthemum virginianum	Mountain Mint	0.50
Rudbeckia laciniata	Wild Golden Glow	3.00
Silphium perfoliatum	Cupplant	4.00
Solidago riddellii	Riddell's Goldenrod	4.00
Verbena hastata	Blue Vervain	2.00
Venonia fasciculata	Ironweed	4.00
Zizia aurea	Golden Alexanders	4.00
Grasses, Sedges & Rushes		oz/acre
Bromus ciliatus	Fringed Brome	24.00
Carex vulpinoidea	Brown Fox Sedge	4.00
Elymus riparius	River Bank Wild Rye	30.00
Elymus virginicus	Virginia Wild Rye	24.00
Glyceria grandis	Reed Manna Grass	2.00
Leersia oryzoides	Rice Cut Grass	2.00
Scirpus atrovirens	Dark-Green Bullrush	1.00
Scirpus cyperinus	Wool Grass	0.25
Scirpus fluviatilis	River Bullrush	3.00
Scirpus validus	Soft-Stemmed Bullrush	0.30
Spartina pectinata	Prairie Cord Grass	4.00

METHOD OF MEASUREMENT

Seeding – Flood Plain within the limits shown on the plan set shall be paid per Square Yard, based on "plan quantity" as shown in the contract without measurement thereof.

BASIS OF PAYMENT

Seeding – Flood Plain shall be measured as described above and shall be paid at the contract unit price, which shall constitute full compensation for provision and placement of seed as defined in this section and Article 207 of the Standard Specifications.

BID ITEM 90008 – ASPHALT PATH REPAIR (PARK)

DESCRIPTION

Work under this bid item shall include all labor, materials, equipment, and incidentals necessary to repair the asphalt path within Quann Park. It is anticipated that the bike path on the northwest side of the channel will be significantly damaged during construction and will, therefore, be resurfaced. That work is not included in this bid item and will be paid separately. For the most part, the asphalt path within the park (on the southeast side of the channel) can and should be avoided, with the exception of defined crossing areas. This bid item is intended to accommodate repair of the path in locations where repeated crossing occurs. The Contractor shall designate the specific locations to which the path crossing will be limited. The Construction Engineer shall approve all asphalt repair in the park path.

The Contractor shall sawcut the existing pavement at the outer limits of damage and remove the asphalt between the sawcuts. The Contractor shall properly dispose of the removed asphalt.

The Contractor shall import, place, and compact 6 inches of crushed aggregate base course. Three inches of HMA Pavement Type E-0.3 shall be imported and placed in accordance with Section 4 of the Standard Specifications. Compaction with a hand compacter will be acceptable for these repairs.

Path dimensions shall match the existing path. Approximately 0.4 tons of asphalt is estimated for this repair.

METHOD OF MEASUREMENT

Asphalt Repair shall be measured per Square Yards of asphalt repair made in the field.

BASIS OF PAYMENT

Asphalt Repair shall be measured as described above and shall be paid for at the contract unit price, which shall be considered full compensation for sawcutting and removing existing asphalt, importing and placing 6 inches of crushed aggregate base course, and importing and placing 3 inches of HMA Pavement Type E-0.3.

BID ITEM 90030 – STORM/STREAM CONTROL

DESCRIPTION

Work under this item shall include all work, materials, equipment, and incidentals required to control wet and dry weather flow in the channel, from the adjacent storm sewers, and within John Nolen Drive Retention Pond excavation area. The Contractor shall expect water to be present in Wingra Creek at all times. This channel is heavily influenced by the water levels in Lake Monona. Therefore, if the lake level is high, the Contractor shall expect the creek level to be elevated and remain elevated. The Contractor shall take all necessary steps to protect the new structures and channels from damage during construction and to accommodate the existing flows during construction.

This item includes all storm control necessary for all aspects of the Construction. This item is not for control of groundwater.

METHOD OF MEASUREMENT

Storm Control shall be measured as a Lump Sum for all storm control necessary throughout construction.

BASIS OF PAYMENT

Storm Control will be paid for at the contract sum price, which shall be full compensation for all work as provided in the description.

BID ITEM 90031 – SILT CURTAIN

DESCRIPTION

Work under this bid item shall include all work, labor, materials, and incidentals necessary to provide, install, maintain, and remove Silt Curtain in accordance with these special provisions and Wisconsin DNR Conservation Practice Standard 1070, which is attached to these special provisions.

Three layers of silt curtain shall be installed immediately downstream of the project area. The layers of silt curtain shall be between 10 and 15 apart. The curtain shall be installed in a manner that allows water to overtop each layer of curtain in the center of the channel. Please see the detail on Sheet D-2.

Silt Curtain shall be installed perpendicular to flow in Wingra Creek and shall be continuous between opposite banks. The installation shall be free of tears and gaps. Where Silt Curtain installations intersect the creek bank, the Contractor shall minimize gapping.

If a project shut-down occurs, the silt curtain shall be removed from the channel. It shall be reinstalled when work at the site resumes. The Contractor shall be compensated for both installations.

METHOD OF MEASUREMENT

Silt Curtain shall be measured as per Linear Foot of Silt Curtain installed, maintained, and removed in the field. Installations of salvaged Silt Curtain material will be paid as new material, provided it meets the original specifications.

BASIS OF PAYMENT

Silt Curtain shall be measured as described above and shall be paid for at the contract unit price, which shall be considered full compensation for providing, installing, maintaining, and removing Silt Curtain as described above.

BID ITEM 90032 - LIGHT RIPRAP – GLACIAL FIELD STONE

DESCRIPTION

This item includes all work, materials, labor, and incidentals required to provide and install glacial field stone as shown in the plan set and described in these Special Provisions. The stone shall meet the size requirements defined below and shall be comprised of rounded, durable, non-sedimentary material that is not susceptible to freeze-thaw degradation. The stone shall meet the following size requirements:

D50 Median Stone Size	% of Material Smaller than Typical Stone	Typical Stone Equivalent Diameter (Inches)
9	70-100	12
	50-70	9
	35-50	6
	2-10	4

The Light Riprap Glacial Field Stone shall be placed a minimum of 12 inches deep.

The stone shall be placed on the channel banks after dredging has been completed in the immediate area and shall be placed at a slope of approximately 3:1. The stone shall be underlain with non-woven geotextile fabric. The fabric shall be paid separately under Bid Item 20140.

METHOD OF MEASUREMENT

Light Riprap Glacial Field Stone shall be measured per Ton of stone placed in the field. All tickets shall be presented to the City representative on the project within twenty-four (24) hours after delivery of the materials to the project.

BASIS OF PAYMENT

Light Riprap Glacial Field Stone shall be measured as described above and shall be paid for at the contract unit price, which shall be considered full compensation for furnishing, hauling, stockpiling as needed, and placing the material, including all equipment, tools, labor and incidentals necessary to complete the work as set forth in the description.

BID ITEM 90033: DREDGING

DESCRIPTION

Work under this item shall include dredging of sediments from Wingra Creek in the locations shown on the plan set. The Contractor shall submit for approval a dredging and sediment transport plan prior to beginning work in Wingra Creek. Mechanical dredging will be considered an acceptable methodology. The intent of the dredging is to remove sediment accumulated from storm water runoff and sloughing of the stream bank. The Contractor shall remove sediment to an elevation of 841.00.

Regardless of dredging methodology, all material shall be hauled, pumped, or transported to the Quann Soccer Fields, which are southwest of the Quann Dog Park and shown on Sheet O-1 and P-6. Dredged materials that are hauled on city streets shall be transported using water-tight, sealed trucks. Dredged materials hauled on City Park land do not need to be transported in sealed trucks. Dredged materials shall be allowed to dewater in-place within the soccer fields until they are dry enough to be graded to the approximate lines and grades shown on the drawings using standard construction equipment. All work required for dewatering shall be paid under Bid Item 90034.

Dredged material generated between Stations 0+50 and 2+00 is contaminated with low-level polychlorinated biphenyl (PCB) concentrations. This material shall be segregated from all other material generated during dredging activities. It does not need to be contained, rather segregated to ensure an ultimate burial depth of 2 feet or greater during final grading of the Quann Soccer Field.

If trash is encountered in the dredging process, it shall be segregated and properly disposed of by the Contractor. Managing any large trash shall be considered incidental to this bid item.

Final grading of the dredged materials, following dewatering, shall be included in this bid item. Grading shall be completed in accordance with the grading plan shown on Sheet P-6.

All costs related to dredging and grading the channel banks to a 3:1 slope, regardless of method used, shall be included with this bid item. No separate payment shall be made for facilitating access, temporary fills, barges, etc. The Contractor may elect to accomplish dredging by placement of temporary fill in locations

All labor, equipment, materials, and incidentals necessary to restore haul routes between Wingra Creek and Quann Soccer Fields shall be considered incidental to this bid item. This includes final grading of haul routes, topsoiling, seeding, and mulching disturbed areas. Straw mulch will be permitted in restoration locations outside of the grading limits shown on Sheets P-1 through P-4. Seed used outside of the grading limits shown on Sheets P-1 through P-4 shall be Sun Terrace Seed Mix, which shall be placed in accordance with Article 207 of the Standard Specifications.

If the Contractor chooses to use the Quann Park asphalt path as a haul route, damage to the path shall be repaired, or the path resurfaced, as part of this bid item.

METHOD OF MEASUREMENT

Dredging shall be paid per Cubic Yard of material removed from Wingra Creek. This item may be measured per the plan quantity, which was determined from cross-sectional areas. Alternatively, the Contractor may choose to measure the volume by survey. The final volume shall be computed by determining the difference between the original ground surface and the final surface. The Contractor shall be responsible for gathering the final survey of Quann Soccer Field, which shall be checked by City Surveyors.

BASIS OF PAYMENT

Dredging shall be measured as defined above, and shall be paid for at the contract unit price, which shall be considered full compensation for all work, materials, equipment, and incidentals necessary to dredge Wingra Creek to the lines and grades defined in the plan set, to haul the dredged material to Quann Soccer Field, to final grade the dewatered sediment, and to repair and restore all haul routes between Wingra Creek and Quann Soccer Field.

BID ITEM 90034 - DEWATERING (DREDGED MATERIAL)

DESCRIPTION

Dredged materials shall be allowed to dewater in place within the Quann Soccer Fields grading limits, as shown on Sheet P-6, until they are dry enough to be graded to the approximate lines and grades shown on the drawings using standard earth moving equipment.

Dredged materials may require “working” in order for full dewatering to occur. This bid item includes any and all work required to facilitate dewatering of dredged materials, including but not limited to any temporary grading, disking, raking, or multiple handling of dredged materials that may be necessary for drying. The Contractor shall provide a dewatering plan to the Project Engineer for approval one week prior to commencing dredging activities.

Dredged material generated between Stations 0+50 and 2+00 shall remain segregated for the duration of dewatering activities to ensure an ultimate burial depth of 2 feet or deeper during final grading.

Final grading of dredged materials following dewatering shall be paid under Bid Item 90033, Dredging.

METHOD OF MEASUREMENT

Dewatering shall be measured as a Lump Sum for all dewatering activities.

BASIS OF PAYMENT

Dewatering, as measured above, shall be paid at the contract unit price, which shall constitute full compensation for all labor, equipment, materials, and incidentals necessary to complete dewatering activities for the materials dredged from Wingra Creek, as described above.

BID ITEM 90035 – STEPPED STONE REVETMENT (STATION 1+25)

DESCRIPTION

Work under this item shall include all work, materials, labor and incidentals necessary for the Contractor to provide and install 10 linear feet of Stepped Stone Revetment at Station 1+25 in accordance with the Specification that follows, and as shown on Sheet D-1. Filter Fabric and Clear Stone to be used in the revetment installation shall be paid separately, under Bid Items 20140 and 20217, respectively.

CONSTRUCTION METHODS

The Stepped Stone Revetment shall be constructed as shown in the plan set. A suitable foundation, as approved by the Engineer shall be provided to preclude settlement. Filter Fabric shall be installed under the bed, as shown on the drawings. Clear stone and filter fabric shall be installed according to the Standard Specifications. Each stone step shall be firmly set with no rocking or tipping, providing a firm foundation for subsequent layers. Cut stone blocks shall be field cut as required to fit tightly to abutting structures.

1. The stepped stone revetment shall be placed by equipment on the surfaces and to the depths specified on the drawings.

2. Stone shall be placed tightly together such that at least 60% of all joined faces are in direct contact and no more than 1.5-inch gap exists at any point along the joint. Vertical seams shall be staggered. Chiseling or cutting of the stone may be needed. Any costs for working the stone shall be included in the prices bid.

3. The finished surface aesthetic is critical. The stone layers shall follow the requirements noted on the plan. The tread width shall be consistent along each elevation and the stones shall fit snugly together and have no gaps larger than 1.5-inch. Working of stone faces may be required to achieve desired tolerances.

4. The intention of the above tolerances is that the work will be generally built to the required elevation, slopes and grades, and that the outer surfaces shall present a neat and aesthetic appearance. Placed material not meeting these intentions shall be removed and/or reworked to the satisfaction of the Owner's Representative. *The Contractor is encouraged to look at a similar application of stone steps along the shoreline of Lake Mendota in front of the boathouse at James Madison Park.*

QUALITY CONTROL

A. Stone Quality and Gradation

1. The Contractor is responsible for, and shall establish and maintain, quality control for all work performed at the quarry and at the job site to ensure compliance with the specifications.

2. The Contractor shall provide a quarry inspector for all stepped stone. The inspector's responsibilities shall include, but not be limited to:

   a. A visual test shall be made at the quarry for elongation, cracks, deterioration and other defects visible to the naked eye on at least two-thirds of the surface area of the stone. Ten percent of the stone checked for cracks shall be wetted and re-inspected for minute cracks to determine if they would be detrimental to the stone quality and if additional inspections are necessary on all stone. Stones with cracks that are detrimental to a long-lasting product shall not be shipped to the project site.

   b. Quarry representative shall pick stones of similar height dimensions for each layer. Stones shall have face and sides perpendicular to each other or angles that will match adjacent stone to achieve a tight fit. Stones intended for each layer shall be marked on the back to identify exact location in the finished work.

3. The Owner's Representative reserves the right to inspect the quarry operations at any time to check for compliance to the specifications.

4. All Stepped Stone shall be produced from the same quarry.

B. Test Section

1. General

a. The initial stepped stone revetment section will be considered as a test section. The purpose of the test sections will be to establish an in-the-field standard, built in accordance with the requirements of the contract documents, to which the remainder of the stepped stone revetment shall be constructed. The Contractor will make whatever modifications are necessary to placement procedures such that this standard will be achieved consistently during construction of the remainder of the revetment.

2. Execution

a. The Contractor shall lay out the work, provide any survey control as needed for control of the work beyond the initial stakeout by City.

b. The Contractor shall make every effort to place the stone to the lines, grades and course thicknesses shown on the drawings.

c. The Contractor's equipment and methods for handling each classification of stone shall be such that all placement requirements of this section are satisfied.

3. Approval

a. The Contractor will be required to rework deficient portions of the test section to meet these requirements. If during construction of the test section, it becomes evident that the Contractor cannot achieve the required neat lines and course thicknesses due to the type of stone being used, modifications to the section will be made. Upon approval, the test section can be incorporated into the remaining work such that removal will not be necessary.

4. Modifications

a. The Contractor will make any necessary modifications to placement equipment and procedures to achieve the specified in-place requirements.

C. Delivery, Storage and Handling

1. General

a. The Contractor shall exercise care in the transportation of all stone materials to prevent cracking, splitting, spalling, etc., that would otherwise lead to rejection at the job site.

b. The Contractor shall handle and store bedding stone material to ensure that stockpiles are not contaminated with other soils and materials, and to limit the segregation of material sizes.

PRODUCTS

A. General

1. Materials which have been delivered to the project site and are rejected, whether in stockpile or in place in the structure, shall be removed from the project site at the Contractor's expense. Any damages to approved stone prior to substantial completion,

due to Contractor or subcontractor operations, wave activity, or otherwise, shall be repaired by the Contractor at no additional cost to the Owner.

B. Sources for Stone Blocks

1. The following listed sources have supplied materials that meet the quality requirements specified. All stone shall be produced from the sources listed below and meet the requirements of Article 2.06 and other requirements of these specifications:

Michels Materials, Valders, WI, 920-478-2084
Halquist Stone, Sussex, WI, 800-255-8811
Valders Stone and Marble, Inc., Valders, WI, 800-569-2156

C. Material Quality

1. All stone shall be highly resistant to weathering and disintegration under freezing and thawing and wetting and drying conditions, and shall be of a quality to ensure permanence of the structure in the climate in which it is to be used. The stone shall be durable, sound, and free from detrimental cracks, seams and other defects which tend to increase deterioration from natural causes or cause breakage in handling and/or placing. A high argillaceous or shale content is often indicative of poorer quality rock being more susceptible to weathering, abrasion, thin bedding, close fracturing and other undesirable rock properties.

D. Other Sources

1. If the Contractor elects to use stone from a source not indicated as previously approved by the USACE, the material must be approved by the USACE and the Owner's Representative, prior to its production, for use on this project. This approval process may include any or all of the following, as directed by the Owner's Representative.

a. Test samples of the proposed stone shall be obtained by the Contractor at its own expense. Samples selected for testing shall be representative of material formations in the quarry to be used or being used on the project. The representative must be present and agree on the selection of all test samples prior to shipment. The Owner's Representative may personally select all samples if he so elects.

b. The samples shall be shipped or delivered by the Contractor, at its expense, to the Local Division Laboratory, U.S. Army Corps of Engineers.

c. Tests to which the material may be subject to include one or more of the following: petrographic examination; specific gravity; abrasion; absorption; wetting and drying; freezing and thawing; soundness; compressive strength; expansion; tensile strength; pulse velocity; gradation; water content; dry unit weight and total porosity; elastic moduli; direct shear; and any other tests determined necessary to ensure that the stone is suitable for its intended use.

d. The Contractor is responsible for allowing sufficient time for the testing to be completed such that there are no delays in construction.

e. If the Contractor elects to use material from a source not previously approved, all costs incurred as a result of testing to verify material acceptability shall be the responsibility of the Contractor.

E. Quarry Operations

1. Quarry operations shall be conducted by the Contractor/supplier in a manner that will produce stone conforming to the requirements specified, and may involve selective quarrying, handling and loading as necessary. Blasting and handling of rock shall be controlled by the Contractor/supplier to produce stone of the size ranges and quality specified. Techniques such as the use of proper hole diameter, hole depth, hole angle, burden and spacing distances, types and distribution of explosives, delay interval and sequence, removal of muck piles between each shot and special handling techniques will be required as necessary to produce the specified materials. All specifications of blasting operations shall be specifically designed so that the end product is not damaged from the blasting technique and that the stone is suitable for the intended purpose.

2. All sedimentary quarry stone from any source shall be stockpiled at the quarry a minimum of 48 hours prior to shipment to the project site. No stone production shall be allowed prior to 1 April or after 1 November, unless quarry history is available to ensure that durable stone can be quarried in freezing temperatures.

METHOD OF MEASUREMENT

Stepped Stone Revetment (Station 1+25) shall be measured per Linear Foot of steps acceptably completed, as measured along the reference line. Only accepted work will be measured for payment.

BASIS OF PAYMENT

Stepped Stone Revetment (Station 1+25) shall be measured as described above and shall be paid at the contract price which shall be full compensation for all materials, labor and equipment necessary for a complete installation including preparation of the bed and stone steps as defined herein, but not including filter fabric, clear stone, or ECRM above the steps.

BID ITEM 90036 – STEPPED STONE REVETMENT (STATION 6+50)

DESCRIPTION

Work under this item shall include all work, materials, labor and incidentals necessary for the Contractor to provide and install 25 linear feet of Stepped Stone Revetment at Station 6+50 in accordance with the Specification that follows, and as shown on the drawings. Filter Fabric and Clear Stone to be used in the revetment installation shall be paid separately, under Bid Items 20140 and 20217, respectively.

CONSTRUCTION METHODS

The Stepped Stone Revetment shall be constructed as shown in the plan set. A suitable foundation, as approved by the Engineer shall be provided to preclude settlement. Filter Fabric shall be installed under the bed, as shown on the drawings. Clear stone and filter fabric shall be installed according to the Standard Specifications. Each stone step shall be firmly set with no rocking or tipping, providing a firm foundation for subsequent layers. Cut stone blocks shall be field cut as required to fit tightly to abutting structures.

5. The stepped stone revetment shall be placed by equipment on the surfaces and to the depths specified on the drawings.

6. Stone shall be placed tightly together such that at least 60% of all joined faces are in direct contact and no more than 1.5-inch gap exists at any point along the joint. Vertical seams shall be staggered. Chiseling or cutting of the stone may be needed. Any costs for working the stone shall be included in the prices bid.

7. The finished surface aesthetic is critical. The stone layers shall follow the requirements noted on the plan. The tread width shall be consistent along each elevation and the stones shall fit snugly together and have no gaps larger than 1.5-inch. Working of stone faces may be required to achieve desired tolerances.

8. The intention of the above tolerances is that the work will be generally built to the required elevation, slopes and grades, and that the outer surfaces shall present a neat and aesthetic appearance. Placed material not meeting these intentions shall be removed and/or reworked to the satisfaction of the Owner's Representative. *The Contractor is encouraged to look at a similar application of stone steps along the shoreline of Lake Mendota in front of the boathouse at James Madison Park.*

QUALITY CONTROL

A. Stone Quality and Gradation

1. The Contractor is responsible for, and shall establish and maintain, quality control for all work performed at the quarry and at the job site to ensure compliance with the specifications.

2. The Contractor shall provide a quarry inspector for all stepped stone. The inspector's responsibilities shall include, but not be limited to:

a. A visual test shall be made at the quarry for elongation, cracks, deterioration and other defects visible to the naked eye on at least two-thirds of the surface area of the stone. Ten percent of the stone checked for cracks shall be wetted and re-inspected for minute cracks to determine if they would be detrimental to the stone quality and if additional inspections are necessary on all stone. Stones with cracks that are detrimental to a long-lasting product shall not be shipped to the project site.

b. Quarry representative shall pick stones of similar height dimensions for each layer. Stones shall have face and sides perpendicular to each other or angles that will match adjacent stone to achieve a tight fit. Stones intended for each layer shall be marked on the back to identify exact location in the finished work.

3. The Owner's Representative reserves the right to inspect the quarry operations at any time to check for compliance to the specifications.

4. All Stepped Stone shall be produced from the same quarry.

B. Test Section

1. General

a. The initial stepped stone revetment section will be considered as a test section. The purpose of the test sections will be to establish an in-the-field standard, built in accordance with the requirements of the contract documents, to which the remainder of the stepped stone revetment shall be constructed. The Contractor will make whatever modifications are necessary to placement procedures such that this standard will be achieved consistently during construction of the remainder of the revetment.

2. Execution

a. The Contractor shall lay out the work, provide any survey control as needed for control of the work beyond the initial stakeout by City.

b. The Contractor shall make every effort to place the stone to the lines, grades and course thicknesses shown on the drawings.

c. The Contractor's equipment and methods for handling each classification of stone shall be such that all placement requirements of this section are satisfied.

3. Approval

a. The Contractor will be required to rework deficient portions of the test section to meet these requirements. If during construction of the test section, it becomes evident that the Contractor cannot achieve the required neat lines and course thicknesses due to the type of stone being used, modifications to the section will be made. Upon approval, the test section can be incorporated into the remaining work such that removal will not be necessary.

4. Modifications

b. The Contractor will make any necessary modifications to placement equipment and procedures to achieve the specified in-place requirements.

C. Delivery, Storage and Handling

1. General

c. The Contractor shall exercise care in the transportation of all stone materials to prevent cracking, splitting, spalling, etc., that would otherwise lead to rejection at the job site.

d. The Contractor shall handle and store bedding stone material to ensure that stockpiles are not contaminated with other soils and materials, and to limit the segregation of material sizes.

PRODUCTS

A. General

1. Materials which have been delivered to the project site and are rejected, whether in stockpile or in place in the structure, shall be removed from the project site at the Contractor's expense. Any damages to approved stone prior to substantial completion, due to Contractor or subcontractor operations, wave activity, or otherwise, shall be repaired by the Contractor at no additional cost to the Owner.

C. Sources for Stone Blocks

2. The following listed sources have supplied materials that meet the quality requirements specified. All stone shall be produced from the sources listed below and meet the requirements of Article 2.06 and other requirements of these specifications:

Michels Materials, Valders, WI, 920-478-2084
Halquist Stone, Sussex, WI, 800-255-8811
Valders Stone and Marble, Inc., Valders, WI, 800-569-2156

C. Material Quality

1. All stone shall be highly resistant to weathering and disintegration under freezing and thawing and wetting and drying conditions, and shall be of a quality to ensure

permanence of the structure in the climate in which it is to be used. The stone shall be durable, sound, and free from detrimental cracks, seams and other defects which tend to increase deterioration from natural causes or cause breakage in handling and/or placing. A high argillaceous or shale content is often indicative of poorer quality rock being more susceptible to weathering, abrasion, thin bedding, close fracturing and other undesirable rock properties.

D. Other Sources

1. If the Contractor elects to use stone from a source not indicated as previously approved by the USACE, the material must be approved by the USACE and the Owner's Representative, prior to its production, for use on this project. This approval process may include any or all of the following, as directed by the Owner's Representative.

   a. Test samples of the proposed stone shall be obtained by the Contractor at its own expense. Samples selected for testing shall be representative of material formations in the quarry to be used or being used on the project. The representative must be present and agree on the selection of all test samples prior to shipment. The Owner's Representative may personally select all samples if he so elects.

   b. The samples shall be shipped or delivered by the Contractor, at its expense, to the Local Division Laboratory, U.S. Army Corps of Engineers.

   c. Tests to which the material may be subject to include one or more of the following: petrographic examination; specific gravity; abrasion; absorption; wetting and drying; freezing and thawing; soundness; compressive strength; expansion; tensile strength; pulse velocity; gradation; water content; dry unit weight and total porosity; elastic moduli; direct shear; and any other tests determined necessary to ensure that the stone is suitable for its intended use.

   d. The Contractor is responsible for allowing sufficient time for the testing to be completed such that there are no delays in construction.

   e. If the Contractor elects to use material from a source not previously approved, all costs incurred as a result of testing to verify material acceptability shall be the responsibility of the Contractor.

E. Quarry Operations

1. Quarry operations shall be conducted by the Contractor/supplier in a manner that will produce stone conforming to the requirements specified, and may involve selective quarrying, handling and loading as necessary. Blasting and handling of rock shall be controlled by the Contractor/supplier to produce stone of the size ranges and quality specified. Techniques such as the use of proper hole diameter, hole depth, hole angle, burden and spacing distances, types and distribution of explosives, delay interval and sequence, removal of muck piles between each shot and special handling techniques will be required as necessary to produce the specified materials. All specifications of blasting operations shall be specifically designed so that the end product is not damaged from the blasting technique and that the stone is suitable for the intended purpose.

2. All sedimentary quarry stone from any source shall be stockpiled at the quarry a minimum of 48 hours prior to shipment to the project site. No stone production shall be allowed prior to 1 April or after 1 November, unless quarry history is available to ensure that durable stone can be quarried in freezing temperatures.

METHOD OF MEASUREMENT

Stepped Stone Revetment (Station 6+50) shall be measured per Linear Foot of steps acceptably completed, as measured along the reference line. Only accepted work will be measured for payment.

BASIS OF PAYMENT

Costs for Stepped Stone Revetment (Station 6+50) shall be measured as described above and shall be paid at the contract price which shall be full compensation for all materials, labor and equipment necessary for a complete installation including preparation of the bed and stone steps as defined herein, but not including filter fabric, clear stone, or ECRM above the steps.

BID ITEM 90037 – LITTORAL SHELF CONSTRUCTION

DESCRIPTION

Work under this bid item includes all labor, equipment, materials, and incidentals necessary to construct littoral shelves to the lines and grades shown on the plan set.

The Contractor shall place a layer of Erosion Matting Class II, Type C – Organic between the existing creek bed and imported fill. The matting shall be toed-in behind the stone used to armor the banks. The matting placed between the existing creek bed material and the fill shall be Dekowe 900, GeoCoir 900, or approved equal. In this application, Dekowe 900 or GeoCoir 900 shall be selected from the Product Acceptability List. These materials were chosen because they have a smaller weave and are 100% biodegradable. An alternate material that meets these criteria may be proposed for this location, subject to the approval of the Project Engineer. All Erosion Control Matting, Class II, Type C shall be paid separately under that bid item.

Clean fill shall then be placed over the matting to achieve the elevations shown on the plan set. The Contractor shall anticipate settlement between 0.5 and 1 foot in the existing creek bed. An average settlement of 0.75 feet was used to calculate the fill estimate shown below. Provision and placement of fill material shall be considered incidental to this bid item.

Fill: 3864 CY

Four inches of topsoil shall be placed over the fill material. Topsoil shall be paid separately under Bid Item 20221 and shall be placed in accord with Article 202 of the Standard Specifications.

The littoral shelf shall be seeded according to Sheet D-2 and stabilized with Erosion Control Matting Class II, Type C – Organic **immediately following fill and topsoil placement**. Seed shall be placed in accordance with Article 207 of the Standard Specifications. Any Class II, Type C matting listed on the WI DOT Product Acceptability List is acceptable for the surface matting. Seeding and erosion matting shall be paid separately under the appropriate bid items.

The Contractor shall manage their schedule so as not to leave a partially constructed littoral shelf exposed to rainfall, or rising creek levels.

METHOD OF MEASUREMENT

Littoral Shelf shall be measured per Square Foot of shelf constructed.

BASIS OF PAYMENT

Littoral Shelf shall be measured as defined above and shall be paid at the contract unit price, which shall constitute full payment for the construction of the littoral shelves and described above.

BID ITEM 90038 – WOODY DEBRIS FISH HABITAT

DESCRIPTION

The Contractor shall provide and install Woody Debris Fish Habitat at the locations shown on the drawings.

This item shall include installation and anchoring of a tree trunk and limbs salvaged from site clearing activities, as shown on the detail in Sheet D-2. Excavation, Fill, Clear Stone, Filter Fabric, Topsoil, Seeding, and ECRM shall be paid separately under their respective bid items, except additional quantities of these items and/or reworking/reconfiguration of these items needed to accommodate installation of the tree trunk, shall be considered incidental to this bid item, and no measurement of these additional quantities shall be made.

Anchorage systems shall consist of anchors, plastic cable, and plastic washers used for installation of Scourstop™ turf reinforcement mats, available from Geo-Synthetics Inc. in Waukesha, WI (www.geo-synthetics.com), or Engineer-approved equivalent. Scourstop turf reinforcement mats are not required for this application – only the anchors are required. For each tree trunk, install two anchors (one on each side of trunk) to sufficient depth to achieve anchoring to the satisfaction of the Engineer, and fasten plastic cable from each anchor securely into a single plastic washer.

An acceptable alternative anchorage system is Manta Ray MR-SR anchors, 1-inch threaded anchor rod, swivel eye, 3/8-inch galvanized steel cable, and appropriately sized cable clips, or approved equal. Two anchors and cables shall be installed per tree.

METHOD OF MEASUREMENT

Woody Debris Fish Habitat shall be measured per Each complete unit as installed in the field.

BASIS OF PAYMENT

Woody Debris Fish Habitat shall be measured as described above and shall be paid for at the contract price which shall be full compensation for all work, materials, labor, tools, equipment and incidentals required for a complete installation as set forth in the description.

BID ITEM 90039 – GEOWEB CREEK ACCESS

DESCRIPTION

This bid item shall include all labor, equipment, materials, and incidentals necessary to provide and install Geoweb GW30V, 6-inch geocell matrix, (http://www.prestogeo.com/slope_protection) or approved equal at the locations and grades shown in the plan set and detailed on Sheet D-1. The geoweb shall be installed per the manufacturer's recommendations.

The Contractor shall install a layer of non-woven geotextile fabric beneath the geoweb installation. Filter fabric shall be paid separately under Bid Item 20140. Manufacturer specified anchors shall be installed in accordance their recommendations (approximately 10% coverage, i.e. 10 anchors per 100 feet of Geoweb). The cells shall be filled with 1-inch clear stone, which shall be considered incidental to this bid item.

The Contractor shall anchor the geoweb installation via a trench at the top of bank. The anchor shall be buried a minimum of two feet within the trench, and shall be anchored into the existing soil. Geoweb within the trench may be filled with backfill material, as opposed to 1-inch clear stone.

METHOD OF MEASUREMENT

Geoweb Creek Access shall be measured per Square Foot of material installed in the field, including material buried within the anchor trench.

BASIS OF PAYMENT

Geoweb Creek Access shall be measured as described above and shall be paid for at the contract unit price which shall constitute full compensation for all work, materials, labor, tools, equipment and incidentals required for a complete installation as set forth in the description.

Silt Curtain
(1070)

Wisconsin Department of Natural Resources
Conservation Practice Standard

I. Definition

A temporary permeable fabric installed in a waterway or waterbody to minimize sediment transport. A silt curtain does not extend to the bottom of the channel and is placed parallel or perpendicular to the direction of flow.

II. Purposes

The purpose of this practice is to provide sediment containment while construction activities are occurring in or directly adjacent to a waterway or waterbody.

III. Conditions Where Practice Applies

This practice applies where construction activities intrude or are directly adjacent to a waterway or waterbody. This includes but is not limited to bridge construction, rip rap placement, utility work, streambank restoration, boat launches and dredging.

Silt curtain is intended for calm water conditions where it will not be subjected to wind, wave, or current. Silt curtains are appropriate to settle out coarse and granular soils where water depth at the time of construction is greater than or equal to 4 feet. For applications in finer sediment or moving water see WDNR Technical Standard 1069 Turbidity Barrier.

IV. Federal, State, and Local Laws

Users of this standard shall be aware of applicable federal, state, and local laws, rules, regulations, or permit requirements governing the use and placement of silt curtains. This standard does not contain the text of federal, state, or local laws.

V. Criteria

This section establishes the minimum standards for design, installation and performance requirements.

A. **Installation –** Details of construction not listed in the text shall conform to the pertinent requirements of Figure 1.

1. The silt curtain shall be installed before construction activities are initiated in or adjacent to the waterway or waterbody. Install the silt curtain as close to the construction as practical. The curtain shall remain in place and be maintained until the construction activity is completed and the disturbed area is *stabilized* [1].

2. The ends of the silt curtain shall be securely anchored and keyed into the shoreline to fully enclose the area where sediment may enter the water.

3. A 2-foot gap shall exist between the weighted lower end of the curtain and the bottom of the waterway or waterbody.

4. Bottom anchors shall be used to hold the silt curtain in the same position relative to the bottom the waterway or waterbody without interfering with the function of the curtain. Anchors shall either be driven into the bottom of the waterway or waterbody or be weighted and attached to the curtain floatation device via an anchor line. Manufacture's recommendations shall be followed for the number and spacing of anchors.

5. Danger buoys shall be used as directed by the Coast Guard or DNR permit when working in navigable waters.

B. **Material:**

1. Reusable components of the silt curtain system shall be clean and free of potential exotic species. Fabric cannot be reused.

2. The silt curtain shall be constructed from heavy woven filter fabric to allow water to pass through the barrier yet retain sediment.

[1] Words in the standard that are shown in italics are described in X. Definitions. The words are italicized the first time they are used in the text.

All fabric seams shall be heat sealed or sewn. Silt curtain fabric shall conform to the specifications in Table 1.

Table 1

Requirement	Value
Thickness	15 mils (0.38 mm)
Min. grab tensile strength (ASTM D 4632)	120 lb (550 N)
Min. equivalent opening	No. 170 sieve (90 µm)

3. Floatation devices shall be flexible, buoyant units contained in an individual floatation sleeve or collar attached to the curtain. Use expanded polystyrene logs or equivalent having a 49 square inch minimum end area. Do not use polystyrene beads or chips. Buoyancy provided by the floatation device shall be sufficient to support the weight of the curtain and maintain a freeboard of at least 3 inches above the water surface level.

4. Top load lines shall consist of 5/16 inch steel cable.

5. Bottom load lines shall consist of a minimum ¼-inch steel chain incorporated into the bottom hem of the curtain. Larger chain sizes may be used where additional weight to serve as ballast to hold the curtain in a vertical position is required.

VI. Considerations

A. Sediment that has settled out by the silt curtain should only be removed as directed by the regulatory authority because re-suspension of sediment will likely occur during the removal process. Use of polymers may help prevent resuspension of sediment. See WDNR Technical Standard 1051 Sediment Control Water Application of Polymers for further guidance.

B. Silt curtains are meant to manage sediment in the waterbody. The best way to prevent sediment from entering the waterbody is through the implementation of effective upland erosion control, stopping sediment transport at its source.

VII. Plans and Specifications

Plans and specifications for installing a silt curtain shall be in keeping with this standard and shall describe the requirements for applying the practice to achieve its intended purpose:

A. Location of silt curtain.

B. Material specification conforming to standard.

C. All plans, standard detail drawings, or specifications shall include schedule for installation, inspection, and maintenance. The responsible party shall be identified.

VIII. Operation and Maintenance

A. Silt curtains shall be inspected daily and repaired if necessary.

B. Regardless of upland stabilization conditions silt curtains shall not be removed until the water behind the curtain has equal or greater clarity than the waterway or waterbody. Soil particles shall be allowed to settle for a minimum of 24 hours prior to removal of the curtain.

C. Care shall be taken when removing the silt curtain to minimize the release or re-suspension of accumulated sediment.

D. To prevent the spread of exotic species silt curtains shall not be reused on other sites. Bouys and chains can be reused but shall be either disinfected with vinegar or cleaned with hot water greater than 104 deg. F then allowed to completely dry for a minimum period of five days. If there are any questions about the occurrence of zebra mussels, Eurasian water-milfoil, or other aquatic invasive species in a waterbody that you are working in or intend to work in contact your local DNR staff.

IX. References

Virginia Erosion and Sediment Control Handbook, Third Edition, 1992

WisDOT Facilities Development Manual: Chapter 10, Section 10, Subject 43, Silt Screen

X. Definitions

Stabilized (V.A.1): Means that all land disturbing construction activities at the construction site have been completed, and that a uniform perennial vegetative cover has been established with a density of at least 70% of the cover for the unpaved areas and areas not covered by permanent structures, or that employ equivalent stabilization measures.

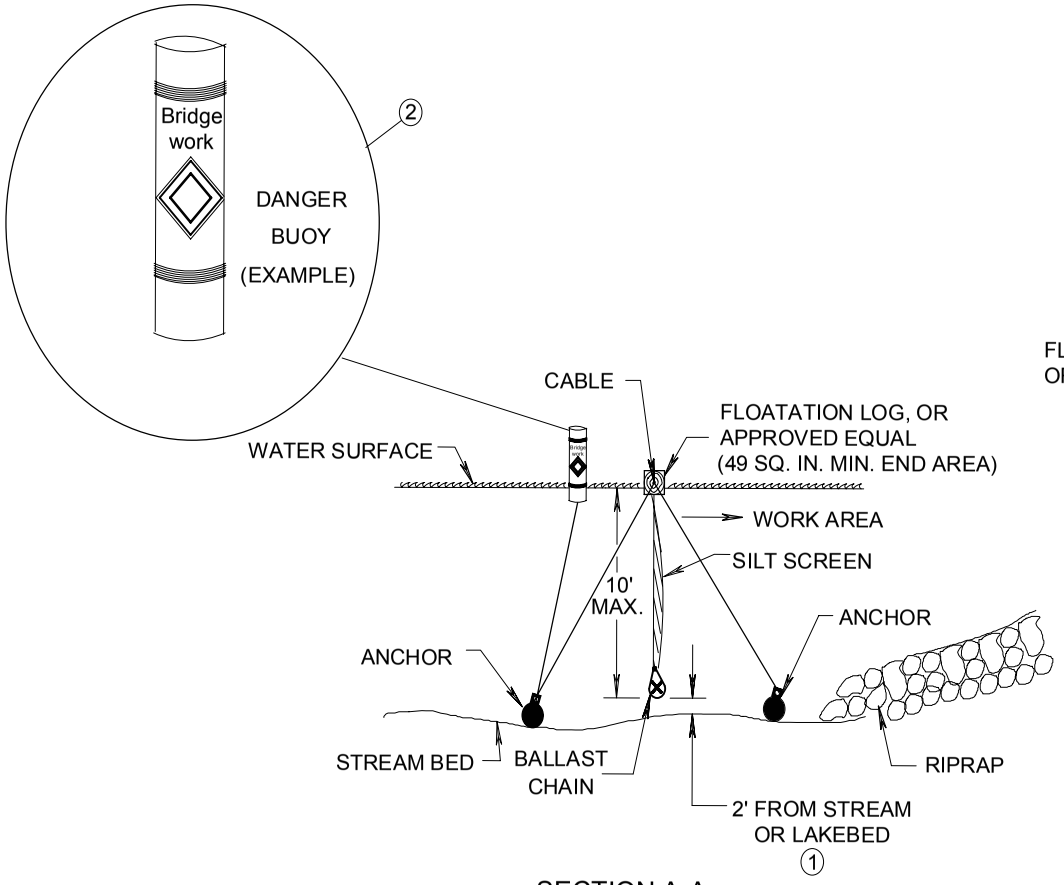
NOT TO SCALE

GENERAL NOTES

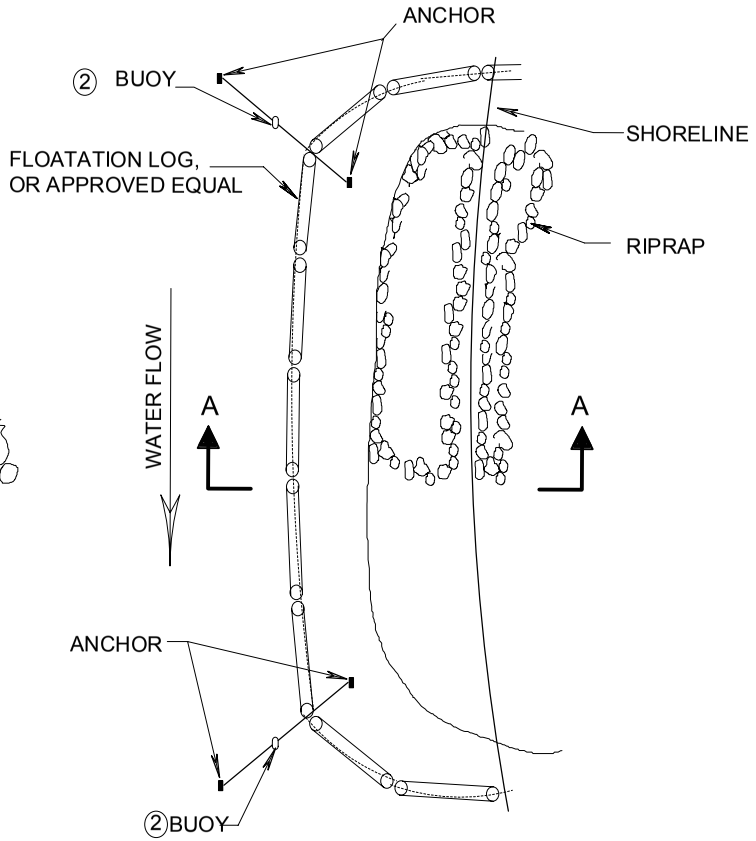
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD AND THE APPLICABLE SPECIAL PROVISIONS

① 2' SHALL BE MAINTAINED DURING CONSTRUCTION PERIOD

② USE AS DIRECTED BY COAST GUARD OR WDNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS



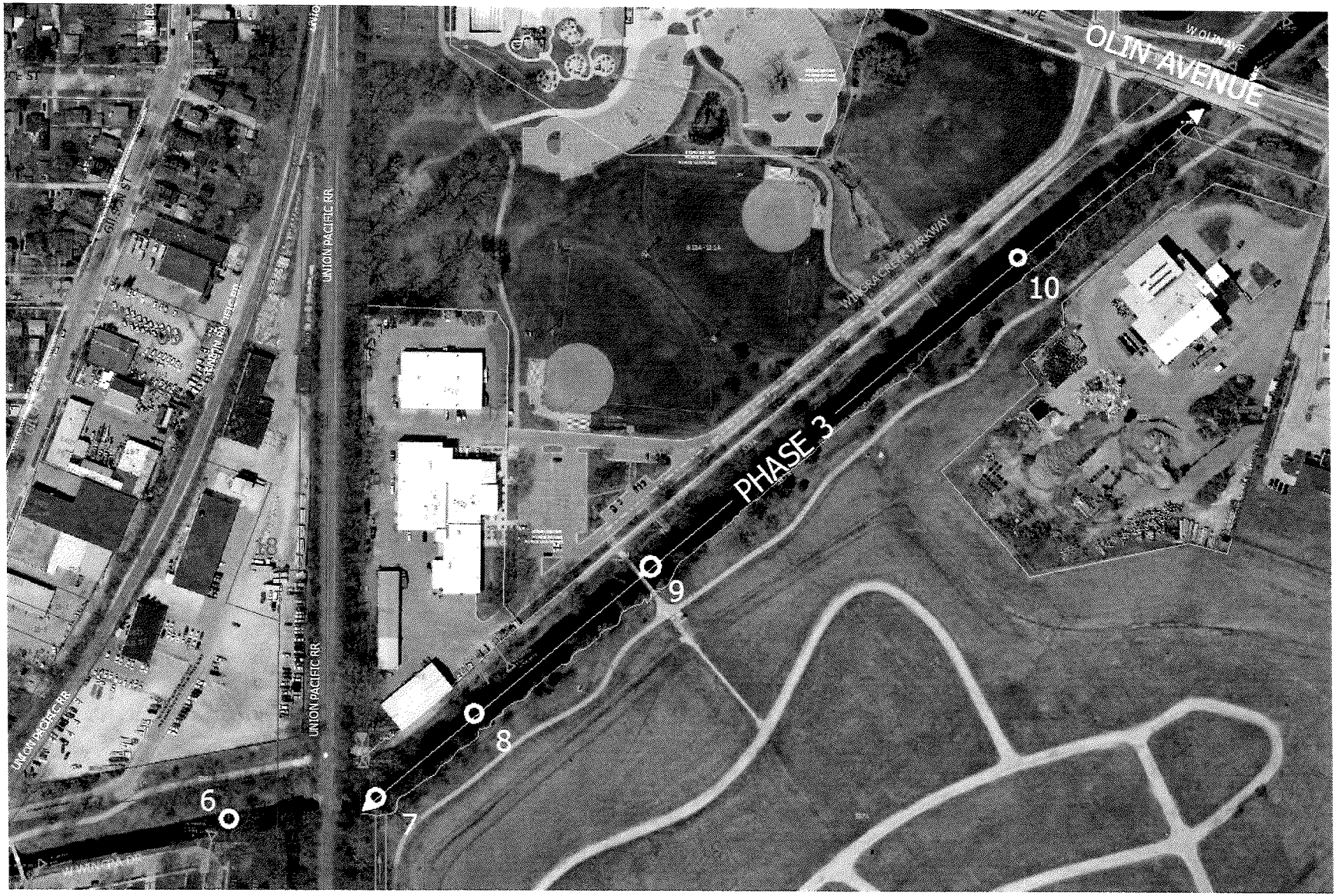
SECTION A-A



PLAN VIEW

FIGURE 1. SILT CURTAIN PLACEMENT DETAIL

This drawing based on Wisconsin Deptartment of Transportation Standard Detail Drawing 8 E 12-1.



Legend

○ Denotes Core Location (approximate)

N

Notes

1. Sediment Cores recovered by CGC in February 2014

DWN: -	APP'D: MNS	Date: 2/14	C13064-43	CGC, Inc.	**SOIL BORING LOCATION PLAN** **Wingra Creek Phase 3** **Madison, Wisconsin**

CGC Inc.

LOG OF TEST BORING

Project: **Wingra Creek Phase 3**

Location: **Madison, Wisconsin**

Boring No. **6**
Surface Elevation (ft)
Job No. **C13064-43**
Sheet **1** of **1**

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	TYPE	Rec (in.)	Moist	N	Depth (ft)		qu (qa) (tsf)	W	LL	PL	LI
						3" ICE/33" WATER					
						Dark Gray Organic SILT to Silty Sand, Little Clay					
					5						
						Gray Fine to Medium SAND, Trace to Little Silt					
						End of Sediment Core at 9 ft					
					10						

WATER LEVEL OBSERVATIONS

While Drilling ▽ Upon Completion of Drilling

Time After Drilling

Depth to Water ▼

Depth to Cave in

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start **2/10/14** End **2/10/14**
Driller Chief Rig
Logger Editor **ESF**
Drill Method **Piston Sampler**
Pre-Washed with TSP Solution

CGC Inc.

LOG OF TEST BORING

Project: **Wingra Creek Phase 3**

Location: **Madison, Wisconsin**

Boring No. **7**
Surface Elevation (ft)
Job No. **C13064-43**
Sheet **1** of **1**

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	TYPE	Rec (in.)	Moist	N	Depth (ft)		qu (qa) (tsf)	W	LL	PL	LI
						6" WATER					
						Brown to Gray Fine to Coarse SAND					
						Dark Gray Organic SILT, Little to Some Sand					
					5	Gray to Brown Sedimentary PEAT to Organic SILT, Trace Sand					
						Gray Silty Fine SAND, Trace Organics					
						End of Sediment Core at 6.5 ft					
					10						

WATER LEVEL OBSERVATIONS

While Drilling ▽ _____ Upon Completion of Drilling _____
Time After Drilling _____ _____ _____ _____
Depth to Water _____ _____ _____ _____ ▼
Depth to Cave in _____ _____ _____ _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start **2/10/14** End **2/10/14**
Driller _____ Chief _____ Rig _____
Logger _____ Editor **ESF**
Drill Method **Piston Sampler**
Pre-Washed with TSP Solution

CGC Inc.

LOG OF TEST BORING

Project: **Wingra Creek Phase 3**

Location: **Madison, Wisconsin**

Boring No. **8**
Surface Elevation (ft)
Job No. **C13064-43**
Sheet **1** of **1**

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	TYPE	Rec (in.)	Moist	N	Depth (ft)		qu (qa) (tsf)	W	LL	PL	LI
						1" ICE/8" WATER					
						Dark Gray Organic SILT, Little to Some Sand, Little Clay					
					5	Gray Silty Fine SAND, Trace Gravel and Organics					
						End of Sediment Core at 6.75 ft					
					10						

WATER LEVEL OBSERVATIONS

While Drilling ▽ Upon Completion of Drilling

Time After Drilling

Depth to Water ▼

Depth to Cave in

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start **2/10/14** End **2/10/14**
Driller Chief Rig
Logger Editor **ESF**
Drill Method **Piston Sampler**
Pre-Washed with TSP Solution

CGC Inc.

LOG OF TEST BORING

Project: Wingra Creek Phase 3

Location: Madison, Wisconsin

Boring No. 9
Surface Elevation (ft)
Job No. C13064-43
Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	TYPE	Rec (in.)	Moist	N	Depth (ft)		qu (qa) (tsf)	W	LL	PL	LI
						2" ICE/7" WATER					
						Dark Gray Organic SILT to Silty Sand, Little Clay					
					5	Gray Lean CLAY					
						End of Sediment Core at 6.75 ft					
					10						

WATER LEVEL OBSERVATIONS

While Drilling ▽ Upon Completion of Drilling

Time After Drilling

Depth to Water ▼

Depth to Cave in

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 2/11/14 End 2/11/14

Driller Chief Rig

Logger Editor ESF

Drill Method Piston Sampler

Pre-Washed with TSP Solution

CGC Inc.

LOG OF TEST BORING

Project: **Wingra Creek Phase 3**

Location: **Madison, Wisconsin**

Boring No. **10**
Surface Elevation (ft)
Job No. **C13064-43**
Sheet **1** of **1**

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	TYPE	Rec (in.)	Moist	N	Depth (ft)		qu (qa) (tsf)	W	LL	PL	LI
						3" ICE/9" WATER					
						Dark Gray Organic SILT, Little to Some Sand					
					5	Gray Lean CLAY, Occasional Sand Partings Thin (<1") Sand Seams noted near 6'					
					10	End of Sediment Core at 7.0 ft					

WATER LEVEL OBSERVATIONS

While Drilling ▽ Upon Completion of Drilling

Time After Drilling

Depth to Water ▼

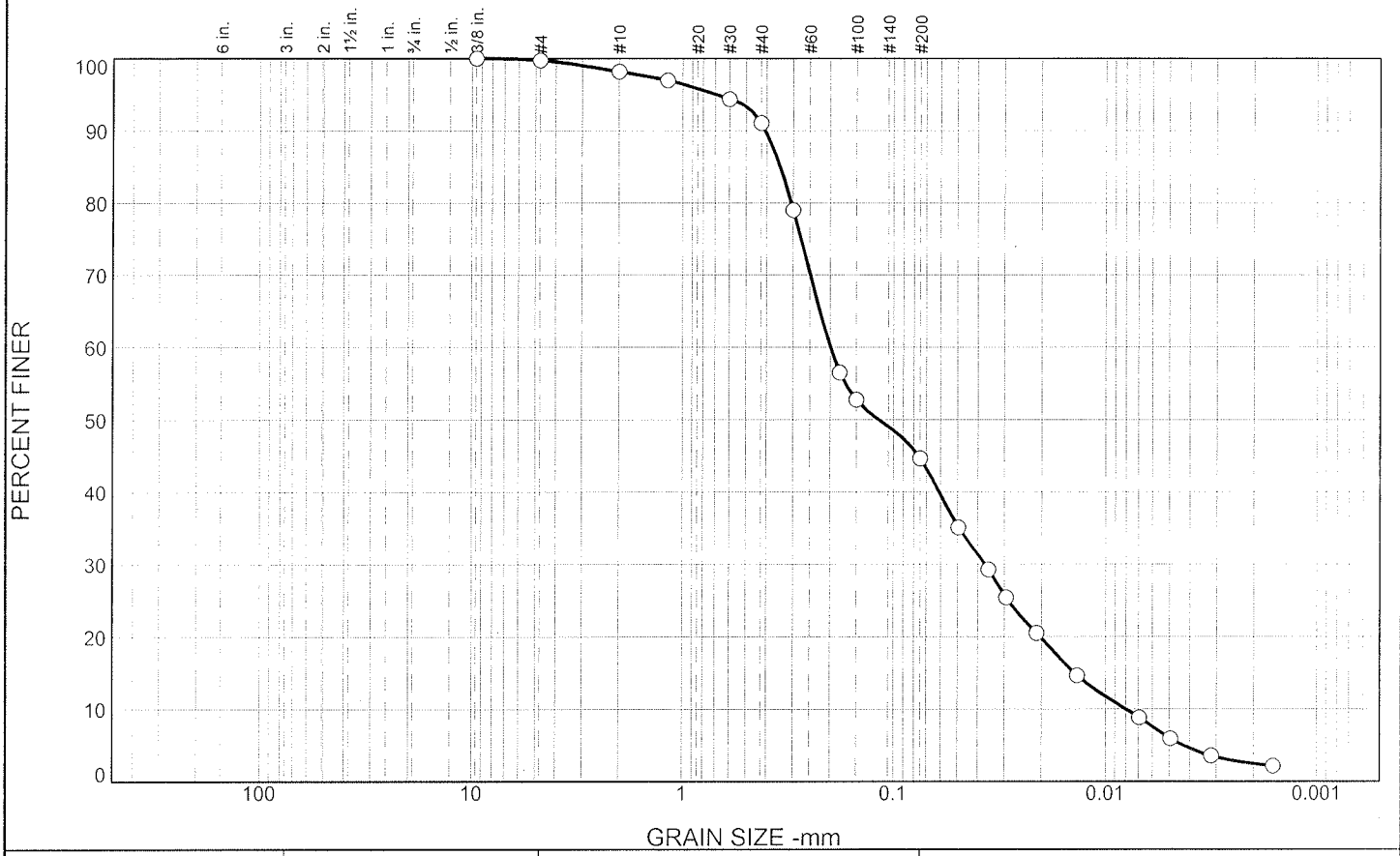
Depth to Cave in

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start **2/11/14** End **2/11/14**
Driller Chief Rig
Logger Editor **ESF**
Drill Method **Piston Sampler**
Pre-Washed with TSP Solution

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.2	1.6	7.1	46.4	38.7	6.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/8"	100.0		
#4	99.8		
#10	98.2		
#16	97.0		
#30	94.4		
#40	91.1		
#50	79.0		
#80	56.5		
#100	52.8		
#200	44.7		

* (no specification provided)

Material Description

Dark Gray Silty Fine to Medium Sand, Little Clay

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 0.4058 D_{85}= 0.3464 D_{60}= 0.1994
D_{50}= 0.1176 D_{30}= 0.0370 D_{15}= 0.0140
D_{10}= 0.0080 C_u= 24.98 C_c= 0.86

Classification

USCS= SM AASHTO=

Remarks

Organics Present
Natural Moisture = 87.3%

Sample Number: B6/S1

Date: 2/25/14

CGC, Inc.

Client: City of Madison
Project: Wingra Creek Phase 3

Project No: C13064-43 **Figure**

Tested By: JSG **Checked By:** DAS

Particle Size Distribution Report

% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	4.0	7.2	20.5	42.1	19.2	7.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4 in.	100.0		
1/2 in.	100.0		
3/8 in.	99.4		
#4	96.0		
#10	88.8		
#16	84.7		
#30	77.9		
#40	68.3		
#50	54.0		
#80	32.9		
#100	30.4		
#200	26.2		

* (no specification provided)

Material Description

Dark Gray Fine to Coarse Sand, Some Silt, Little Clay, Trace Gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 2.2908 D_{85}= 1.2368 D_{60}= 0.3429
D_{50}= 0.2757 D_{30}= 0.1414 D_{15}= 0.0228
D_{10}= 0.0092 C_u= 37.21 C_c= 6.32

Classification

USCS= SM AASHTO=

Remarks

Organics Present

Natural Moisture = 43.2%

Sample Number: B7/S1

Date: 2/25/14

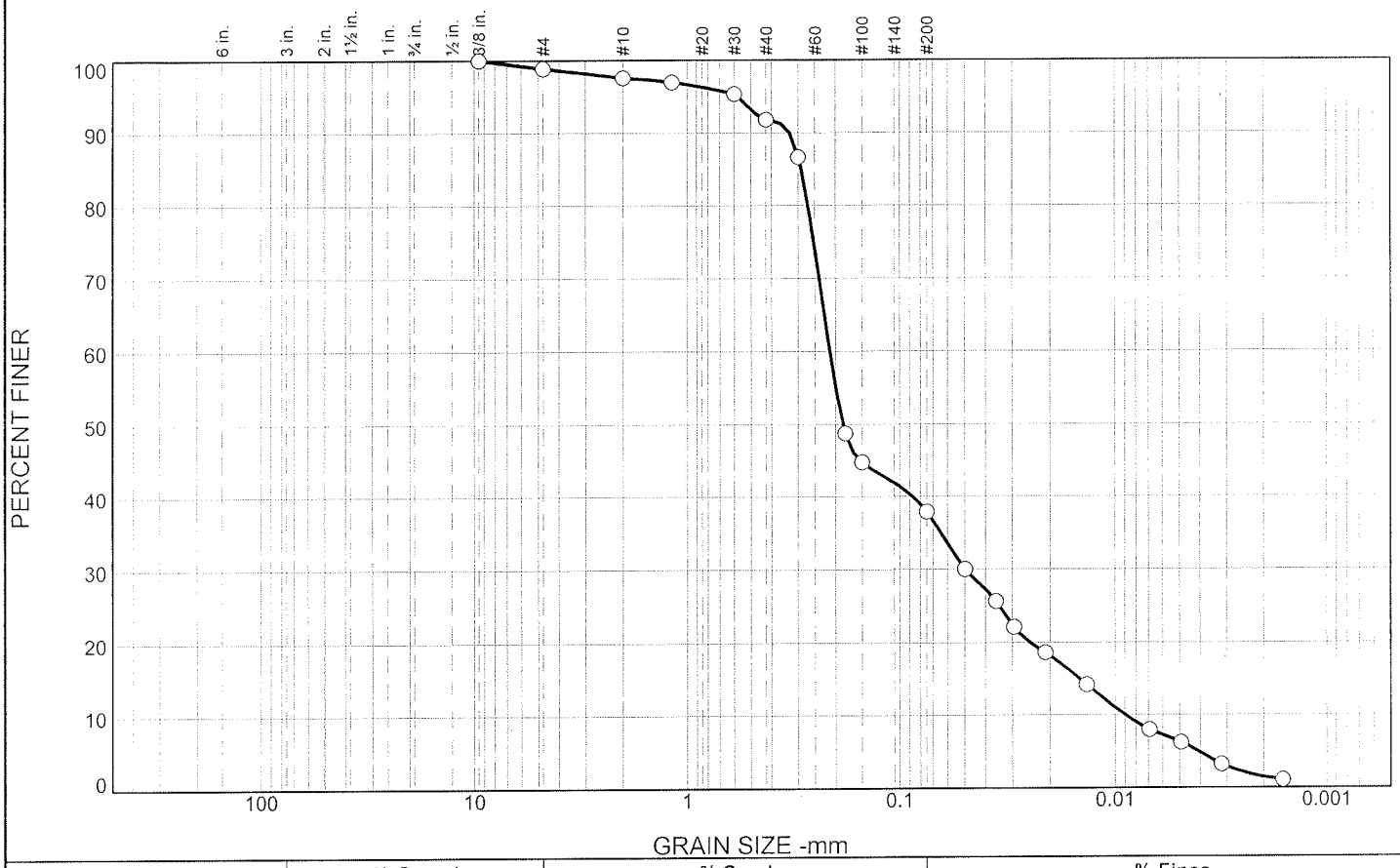
CGC, Inc.

Client: City of Madison
Project: Wingra Creek Phase 3

Project No: C13064-43 **Figure**

Tested By: JSG **Checked By:** DAS

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	1.1	1.3	5.8	53.9	31.6	6.3

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/8"	100.0		
#4	98.9		
#10	97.6		
#16	97.0		
#30	95.4		
#40	91.8		
#50	86.7		
#80	48.7		
#100	44.7		
#200	37.9		

* (no specification provided)

Material Description

Dark Gray Fine to Medium Sand, Some Silt, Little Clay, Trace Gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 0.3309 D_{85}= 0.2908 D_{60}= 0.2133
D_{50}= 0.1848 D_{30}= 0.0495 D_{15}= 0.0146
D_{10}= 0.0090 C_u= 23.77 C_c= 1.28

Classification

USCS= SM AASHTO=

Remarks

Organics Present

Natural Moisture = 34.2%

Sample Number: B8/S1

Date: 2/25/14

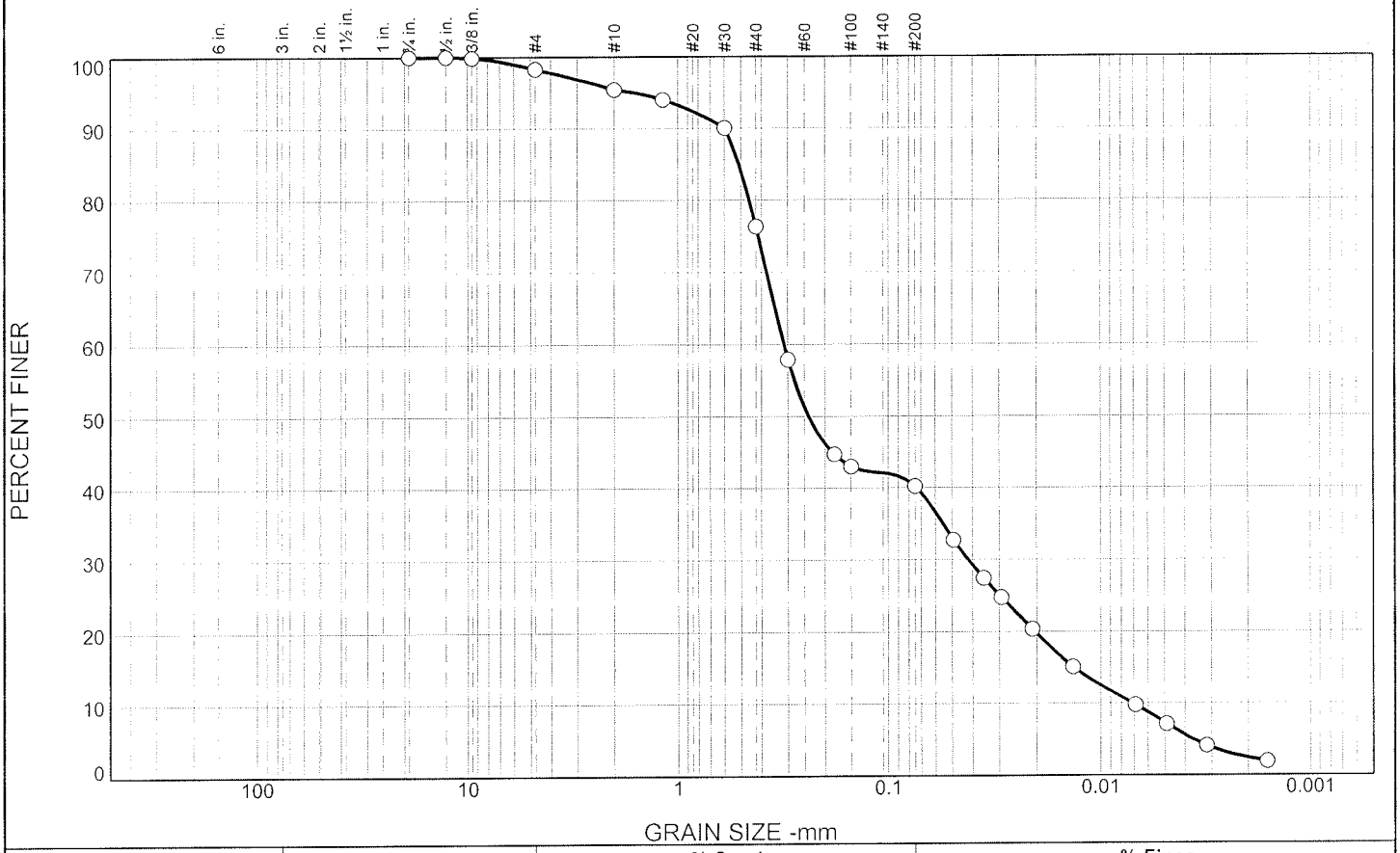
CGC, Inc.

Client: City of Madison
Project: Wingra Creek Phase 3

Project No: C13064-43 **Figure**

Tested By: JSG **Checked By:** DAS

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	1.7	2.9	19.1	36.1	32.9	7.3

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4 in.	100.0		
1/2 in.	100.0		
3/8 in.	99.9		
#4	98.3		
#10	95.4		
#16	94.0		
#30	90.1		
#40	76.3		
#50	57.9		
#80	44.7		
#100	43.0		
#200	40.2		

* (no specification provided)

Material Description

Dark Gray Fine to Medium Sand, Some Silt, Little Clay, Trace Gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 0.5988 D_{85}= 0.5136 D_{60}= 0.3137
D_{50}= 0.2397 D_{30}= 0.0420 D_{15}= 0.0134
D_{10}= 0.0071 C_u= 44.36 C_c= 0.79

Classification

USCS= SM AASHTO=

Remarks

Organics Present

Natural Moisture = 67.8%

Sample Number: B9/S1

Date: 2/25/14

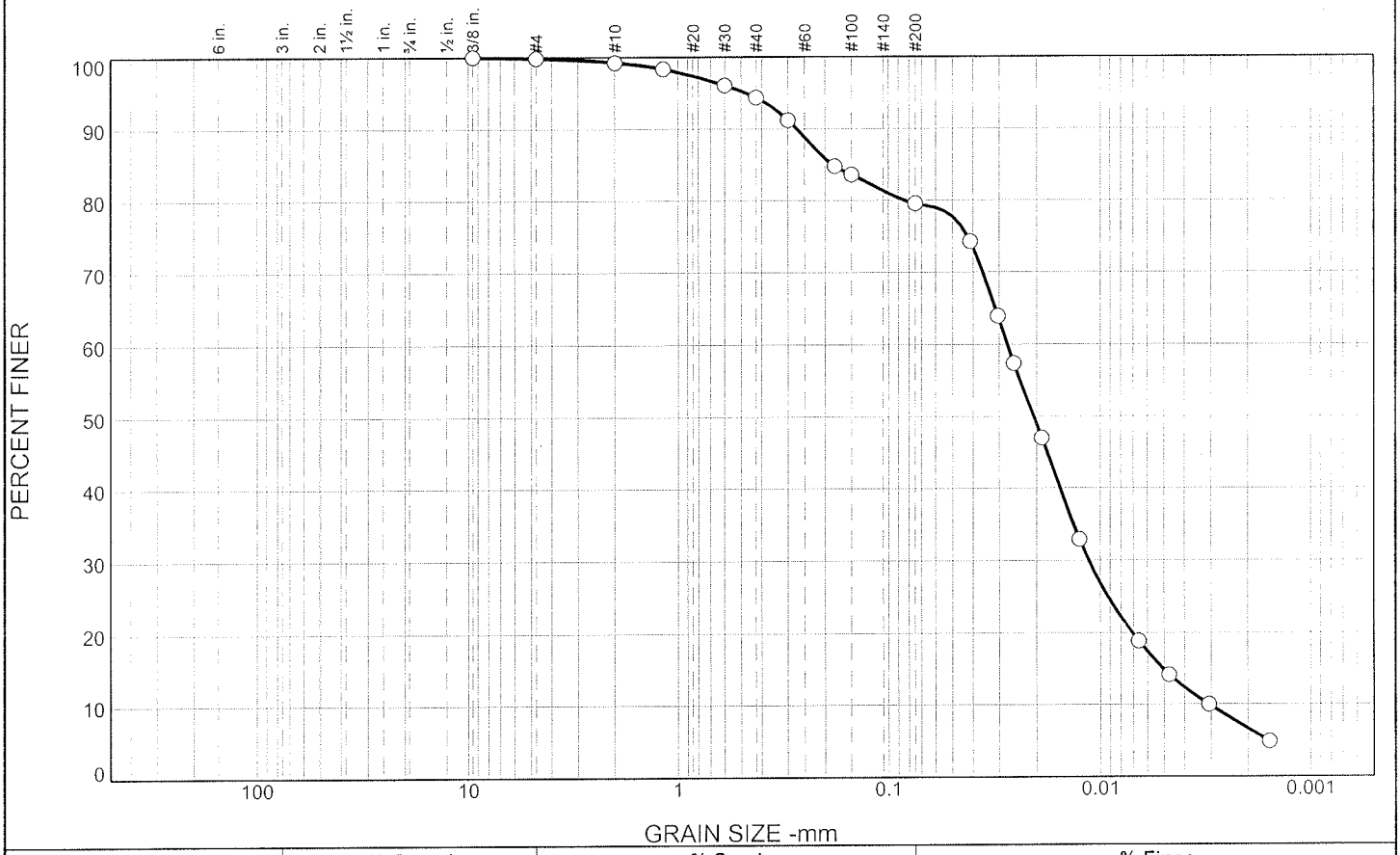
CGC, Inc.

Client: City of Madison
Project: Wingra Creek Phase 3

Project No: C13064-43 **Figure**

Tested By: JSG **Checked By:** DAS

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.2	0.6	4.8	14.9	64.7	14.8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/8"	100.0		
#4	99.8		
#10	99.2		
#16	98.4		
#30	96.1		
#40	94.4		
#50	91.2		
#80	84.8		
#100	83.6		
#200	79.5		

* (no specification provided)

Material Description

Dark Gray Silt, Some Sand and Clay

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 0.2733 D_{85}= 0.1850 D_{60}= 0.0276
D_{50}= 0.0207 D_{30}= 0.0114 D_{15}= 0.0051
D_{10}= 0.0031 C_u= 8.99 C_c= 1.53

Classification

USCS= ML AASHTO=

Remarks

Organics Present

Natural Moisture = 62.2%

Sample Number: B10/S1

Date: 2/25/14

CGC, Inc.

Client: City of Madison
Project: Wingra Creek Phase 3
Project No: C13064-43 **Figure**

Tested By: JSG **Checked By:** DAS

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

February 26, 2014

Dennis Iverson
IVERTECH, LLC.
2880 Jonathan Circle
Madison, WI 53711

RE: Project: C7799-WING III WINGRA
Pace Project No.: 4092070

Dear Dennis Iverson:
Enclosed are the analytical results for sample(s) received by the laboratory on February 13, 2014. 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,

Dan Milewsky
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Project Manager

Enclosures

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

CERTIFICATIONS

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

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: C7799-WING III WINGRA
Pace Project No.: 4092070

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4092070001	**B6-S1**	Solid	02/11/14 07:30	02/13/14 08:40
4092070002	**B6-S2**	Solid	02/11/14 07:45	02/13/14 08:40
4092070003	**B7-S1**	Solid	02/11/14 08:15	02/13/14 08:40
4092070004	**B7-S2**	Solid	02/11/14 08:30	02/13/14 08:40
4092070005	**B8-S1**	Solid	02/11/14 09:00	02/13/14 08:40
4092070006	**B8-S2**	Solid	02/11/14 09:15	02/13/14 08:40
4092070007	**B9-S1**	Solid	02/11/14 09:45	02/13/14 08:40
4092070008	**B9-S2**	Solid	02/11/14 10:00	02/13/14 08:40
4092070009	**B10-S1**	Solid	02/11/14 10:30	02/13/14 08:40
4092070010	**B10-S2**	Solid	02/11/14 10:45	02/13/14 08:40

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SAMPLE ANALYTE COUNT

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4092070001	**B6-S1**	EPA 8082	BLM	10	PASI-G
		EPA 6010	MMZ	9	PASI-G
		EPA 6010	MMZ	1	PASI-G
		EPA 7471	CMS	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
		EPA 9060 Modified	TJJ	4	PASI-G
4092070002	**B6-S2**	EPA 8082	BLM	10	PASI-G
		EPA 6010	MMZ	9	PASI-G
		EPA 6010	MMZ	1	PASI-G
		EPA 7471	CMS	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
		EPA 9060 Modified	TJJ	4	PASI-G
4092070003	**B7-S1**	EPA 8082	BLM	10	PASI-G
		EPA 6010	MMZ	9	PASI-G
		EPA 6010	MMZ	1	PASI-G
		EPA 7471	CMS	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
		EPA 9060 Modified	TJJ	4	PASI-G
4092070004	**B7-S2**	EPA 8082	BLM	10	PASI-G
		EPA 6010	MMZ	9	PASI-G
		EPA 6010	MMZ	1	PASI-G
		EPA 7471	CMS	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
		EPA 9060 Modified	TJJ	4	PASI-G
4092070005	**B8-S1**	EPA 8082	BLM	10	PASI-G
		EPA 6010	MMZ	9	PASI-G
		EPA 6010	MMZ	1	PASI-G
		EPA 7471	CMS	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
		EPA 9060 Modified	TJJ	4	PASI-G
4092070006	**B8-S2**	EPA 8082	BLM	10	PASI-G
		EPA 6010	MMZ	9	PASI-G

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SAMPLE ANALYTE COUNT

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	MMZ	1	PASI-G
		EPA 7471	CMS	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
		EPA 9060 Modified	TJJ	4	PASI-G
4092070007	**B9-S1**	EPA 8082	BLM	10	PASI-G
		EPA 6010	MMZ	9	PASI-G
		EPA 6010	MMZ	1	PASI-G
		EPA 7471	CMS	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
		EPA 9060 Modified	TJJ	4	PASI-G
4092070008	**B9-S2**	EPA 8082	BLM	10	PASI-G
		EPA 6010	MMZ	9	PASI-G
		EPA 6010	MMZ	1	PASI-G
		EPA 7471	CMS	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
		EPA 9060 Modified	TJJ	4	PASI-G
4092070009	**B10-S1**	EPA 8082	BLM	10	PASI-G
		EPA 6010	MMZ	9	PASI-G
		EPA 6010	MMZ	1	PASI-G
		EPA 7471	CMS	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
		EPA 9060 Modified	TJJ	4	PASI-G
4092070010	**B10-S2**	EPA 8082	BLM	10	PASI-G
		EPA 6010	MMZ	9	PASI-G
		EPA 6010	MMZ	1	PASI-G
		EPA 7471	CMS	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
		EPA 9060 Modified	TJJ	4	PASI-G

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ANALYTICAL RESULTS

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

Sample: B6-S1 **Lab ID: 4092070001** Collected: 02/11/14 07:30 Received: 02/13/14 08:40 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)	**<0.048**	mg/kg	0.097	0.048	1	02/14/14 10:52	02/17/14 16:09	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.048**	mg/kg	0.097	0.048	1	02/14/14 10:52	02/17/14 16:09	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.048**	mg/kg	0.097	0.048	1	02/14/14 10:52	02/17/14 16:09	11141-16-5	
PCB-1242 (Aroclor 1242)	**0.092J**	mg/kg	0.097	0.048	1	02/14/14 10:52	02/17/14 16:09	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.048**	mg/kg	0.097	0.048	1	02/14/14 10:52	02/17/14 16:09	12672-29-6	
PCB-1254 (Aroclor 1254)	**0.16**	mg/kg	0.097	0.048	1	02/14/14 10:52	02/17/14 16:09	11097-69-1	
PCB-1260 (Aroclor 1260)	**0.076J**	mg/kg	0.097	0.048	1	02/14/14 10:52	02/17/14 16:09	11096-82-5	
PCB, Total	**0.33**	mg/kg	0.097	0.048	1	02/14/14 10:52	02/17/14 16:09	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	72	%	40-130		1	02/14/14 10:52	02/17/14 16:09	877-09-8	
Decachlorobiphenyl (S)	79	%	48-130		1	02/14/14 10:52	02/17/14 16:09	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**12.3**	mg/kg	3.6	0.98	1	02/14/14 08:57	02/14/14 18:24	7440-38-2	
Barium	**76.0**	mg/kg	0.91	0.16	1	02/14/14 08:57	02/14/14 18:24	7440-39-3	
Cadmium	**1.4**	mg/kg	0.91	0.092	1	02/14/14 08:57	02/14/14 18:24	7440-43-9	
Chromium	**18.9**	mg/kg	0.91	0.23	1	02/14/14 08:57	02/14/14 18:24	7440-47-3	
Iron	**10200**	mg/kg	18.1	4.9	1	02/14/14 08:57	02/14/14 18:24	7439-89-6	
Lead	**289**	mg/kg	1.8	0.53	1	02/14/14 08:57	02/14/14 18:24	7439-92-1	
Manganese	**243**	mg/kg	0.91	0.056	1	02/14/14 08:57	02/14/14 18:24	7439-96-5	
Selenium	**<1.1**	mg/kg	3.6	1.1	1	02/14/14 08:57	02/14/14 18:24	7782-49-2	
Silver	**<0.39**	mg/kg	1.8	0.39	1	02/14/14 08:57	02/14/14 18:24	7440-22-4	
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
	Leachate Method/Date: EPA 1311; 02/19/14 00:00								
Lead	**0.30**	mg/L	0.038	0.015	1	02/20/14 09:45	02/24/14 11:53	7439-92-1	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.13**	mg/kg	0.010	0.0051	1	02/18/14 14:50	02/19/14 16:06	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**0.078**	mg/kg	0.065	0.032	1	02/19/14 09:27	02/20/14 11:29	83-32-9	
Acenaphthylene	**<0.029**	mg/kg	0.065	0.029	1	02/19/14 09:27	02/20/14 11:29	208-96-8	
Anthracene	**0.21**	mg/kg	0.065	0.033	1	02/19/14 09:27	02/20/14 11:29	120-12-7	
Benzo(a)anthracene	**0.60**	mg/kg	0.065	0.022	1	02/19/14 09:27	02/20/14 11:29	56-55-3	
Benzo(a)pyrene	**0.67**	mg/kg	0.065	0.023	1	02/19/14 09:27	02/20/14 11:29	50-32-8	
Benzo(b)fluoranthene	**0.74**	mg/kg	0.065	0.032	1	02/19/14 09:27	02/20/14 11:29	205-99-2	
Benzo(g,h,i)perylene	**0.49**	mg/kg	0.065	0.025	1	02/19/14 09:27	02/20/14 11:29	191-24-2	
Benzo(k)fluoranthene	**0.55**	mg/kg	0.065	0.036	1	02/19/14 09:27	02/20/14 11:29	207-08-9	
Chrysene	**0.80**	mg/kg	0.065	0.030	1	02/19/14 09:27	02/20/14 11:29	218-01-9	
Dibenz(a,h)anthracene	**0.17**	mg/kg	0.065	0.024	1	02/19/14 09:27	02/20/14 11:29	53-70-3	
Fluoranthene	**1.7**	mg/kg	0.065	0.032	1	02/19/14 09:27	02/20/14 11:29	206-44-0	
Fluorene	**0.083**	mg/kg	0.065	0.032	1	02/19/14 09:27	02/20/14 11:29	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.44**	mg/kg	0.065	0.025	1	02/19/14 09:27	02/20/14 11:29	193-39-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

Sample: B6-S1 **Lab ID: 4092070001** Collected: 02/11/14 07:30 Received: 02/13/14 08:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
1-Methylnaphthalene	**<0.032**	mg/kg	0.065	0.032	1	02/19/14 09:27	02/20/14 11:29	90-12-0	
2-Methylnaphthalene	**<0.032**	mg/kg	0.065	0.032	1	02/19/14 09:27	02/20/14 11:29	91-57-6	
Naphthalene	**0.059J**	mg/kg	0.065	0.032	1	02/19/14 09:27	02/20/14 11:29	91-20-3	
Phenanthrene	**0.80**	mg/kg	0.065	0.032	1	02/19/14 09:27	02/20/14 11:29	85-01-8	
Pyrene	**1.3**	mg/kg	0.065	0.032	1	02/19/14 09:27	02/20/14 11:29	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	54	%	40-130		1	02/19/14 09:27	02/20/14 11:29	321-60-8	
Terphenyl-d14 (S)	53	%	40-130		1	02/19/14 09:27	02/20/14 11:29	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**48.4**	%	0.10	0.10	1		02/13/14 14:24		
Total Organic Carbon	Analytical Method: EPA 9060 Modified								
Surrogates									
RPD%	**18.5**	%	0.10	0.10	1		02/20/14 10:44		
Total Organic Carbon	**49400**	mg/kg	20000	2490	1		02/20/14 10:39	7440-44-0	
Total Organic Carbon	**59500**	mg/kg	16700	2070	1		02/20/14 10:44	7440-44-0	
Mean Total Organic Carbon	**54400**	mg/kg	18300	2280	1		02/20/14 10:44	7440-44-0	

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ANALYTICAL RESULTS

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

Sample: B6-S2 **Lab ID: 4092070002** Collected: 02/11/14 07:45 Received: 02/13/14 08:40 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)	**<0.031**	mg/kg	0.062	0.031	1	02/14/14 10:52	02/17/14 16:26	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.031**	mg/kg	0.062	0.031	1	02/14/14 10:52	02/17/14 16:26	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.031**	mg/kg	0.062	0.031	1	02/14/14 10:52	02/17/14 16:26	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.031**	mg/kg	0.062	0.031	1	02/14/14 10:52	02/17/14 16:26	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.031**	mg/kg	0.062	0.031	1	02/14/14 10:52	02/17/14 16:26	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.031**	mg/kg	0.062	0.031	1	02/14/14 10:52	02/17/14 16:26	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.031**	mg/kg	0.062	0.031	1	02/14/14 10:52	02/17/14 16:26	11096-82-5	
PCB, Total	**<0.031**	mg/kg	0.062	0.031	1	02/14/14 10:52	02/17/14 16:26	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	72	%	40-130		1	02/14/14 10:52	02/17/14 16:26	877-09-8	
Decachlorobiphenyl (S)	83	%	48-130		1	02/14/14 10:52	02/17/14 16:26	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**0.74J**	mg/kg	2.3	0.61	1	02/14/14 08:57	02/14/14 18:26	7440-38-2	
Barium	**4.8**	mg/kg	0.57	0.099	1	02/14/14 08:57	02/14/14 18:26	7440-39-3	
Cadmium	**0.22J**	mg/kg	0.57	0.058	1	02/14/14 08:57	02/14/14 18:26	7440-43-9	
Chromium	**3.5**	mg/kg	0.57	0.14	1	02/14/14 08:57	02/14/14 18:26	7440-47-3	
Iron	**1560**	mg/kg	11.4	3.0	1	02/14/14 08:57	02/14/14 18:26	7439-89-6	
Lead	**19.6**	mg/kg	1.1	0.33	1	02/14/14 08:57	02/14/14 18:26	7439-92-1	
Manganese	**70.0**	mg/kg	0.57	0.035	1	02/14/14 08:57	02/14/14 18:26	7439-96-5	
Selenium	**<0.67**	mg/kg	2.3	0.67	1	02/14/14 08:57	02/14/14 18:26	7782-49-2	
Silver	**<0.24**	mg/kg	1.1	0.24	1	02/14/14 08:57	02/14/14 18:26	7440-22-4	
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
	Leachate Method/Date: EPA 1311; 02/19/14 00:00								
Lead	**0.083**	mg/L	0.038	0.015	1	02/20/14 09:45	02/24/14 11:42	7439-92-1	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**<0.0039**	mg/kg	0.0077	0.0039	1	02/18/14 14:50	02/19/14 16:09	7439-97-6	2q
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<0.010**	mg/kg	0.021	0.010	1	02/19/14 09:27	02/19/14 14:48	83-32-9	
Acenaphthylene	**<0.0093**	mg/kg	0.021	0.0093	1	02/19/14 09:27	02/19/14 14:48	208-96-8	
Anthracene	**<0.011**	mg/kg	0.021	0.011	1	02/19/14 09:27	02/19/14 14:48	120-12-7	
Benzo(a)anthracene	**0.0086J**	mg/kg	0.021	0.0072	1	02/19/14 09:27	02/19/14 14:48	56-55-3	
Benzo(a)pyrene	**0.0084J**	mg/kg	0.021	0.0074	1	02/19/14 09:27	02/19/14 14:48	50-32-8	
Benzo(b)fluoranthene	**<0.010**	mg/kg	0.021	0.010	1	02/19/14 09:27	02/19/14 14:48	205-99-2	
Benzo(g,h,i)perylene	**<0.0079**	mg/kg	0.021	0.0079	1	02/19/14 09:27	02/19/14 14:48	191-24-2	
Benzo(k)fluoranthene	**<0.011**	mg/kg	0.021	0.011	1	02/19/14 09:27	02/19/14 14:48	207-08-9	
Chrysene	**0.010J**	mg/kg	0.021	0.0096	1	02/19/14 09:27	02/19/14 14:48	218-01-9	
Dibenz(a,h)anthracene	**<0.0076**	mg/kg	0.021	0.0076	1	02/19/14 09:27	02/19/14 14:48	53-70-3	
Fluoranthene	**0.021**	mg/kg	0.021	0.010	1	02/19/14 09:27	02/19/14 14:48	206-44-0	
Fluorene	**<0.010**	mg/kg	0.021	0.010	1	02/19/14 09:27	02/19/14 14:48	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0079**	mg/kg	0.021	0.0079	1	02/19/14 09:27	02/19/14 14:48	193-39-5	

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ANALYTICAL RESULTS

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

Sample: B6-S2 **Lab ID: 4092070002** Collected: 02/11/14 07:45 Received: 02/13/14 08:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
1-Methylnaphthalene	**<0.010**	mg/kg	0.021	0.010	1	02/19/14 09:27	02/19/14 14:48	90-12-0	
2-Methylnaphthalene	**<0.010**	mg/kg	0.021	0.010	1	02/19/14 09:27	02/19/14 14:48	91-57-6	
Naphthalene	**<0.010**	mg/kg	0.021	0.010	1	02/19/14 09:27	02/19/14 14:48	91-20-3	
Phenanthrene	**0.012J**	mg/kg	0.021	0.010	1	02/19/14 09:27	02/19/14 14:48	85-01-8	
Pyrene	**0.019J**	mg/kg	0.021	0.010	1	02/19/14 09:27	02/19/14 14:48	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	63	%	40-130		1	02/19/14 09:27	02/19/14 14:48	321-60-8	
Terphenyl-d14 (S)	63	%	40-130		1	02/19/14 09:27	02/19/14 14:48	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.5**	%	0.10	0.10	1		02/13/14 14:24		
Total Organic Carbon	Analytical Method: EPA 9060 Modified								
Surrogates									
RPD%	**19.2**	%	0.10	0.10	1		02/20/14 11:12		
Total Organic Carbon	**935**	mg/kg	375	46.6	1		02/20/14 11:08	7440-44-0	
Total Organic Carbon	**1130**	mg/kg	382	47.5	1		02/20/14 11:12	7440-44-0	
Mean Total Organic Carbon	**1030**	mg/kg	378	47.0	1		02/20/14 11:12	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

Sample: B7-S1 **Lab ID: 4092070003** Collected: 02/11/14 08:15 Received: 02/13/14 08:40 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)	**<0.042**	mg/kg	0.085	0.042	1	02/14/14 10:52	02/17/14 16:43	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.042**	mg/kg	0.085	0.042	1	02/14/14 10:52	02/17/14 16:43	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.042**	mg/kg	0.085	0.042	1	02/14/14 10:52	02/17/14 16:43	11141-16-5	
PCB-1242 (Aroclor 1242)	**0.045J**	mg/kg	0.085	0.042	1	02/14/14 10:52	02/17/14 16:43	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.042**	mg/kg	0.085	0.042	1	02/14/14 10:52	02/17/14 16:43	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.042**	mg/kg	0.085	0.042	1	02/14/14 10:52	02/17/14 16:43	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.042**	mg/kg	0.085	0.042	1	02/14/14 10:52	02/17/14 16:43	11096-82-5	
PCB, Total	**0.045J**	mg/kg	0.085	0.042	1	02/14/14 10:52	02/17/14 16:43	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	79	%	40-130		1	02/14/14 10:52	02/17/14 16:43	877-09-8	
Decachlorobiphenyl (S)	85	%	48-130		1	02/14/14 10:52	02/17/14 16:43	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**7.0**	mg/kg	3.2	0.86	1	02/14/14 08:57	02/14/14 18:28	7440-38-2	
Barium	**77.4**	mg/kg	0.79	0.14	1	02/14/14 08:57	02/14/14 18:28	7440-39-3	
Cadmium	**0.76J**	mg/kg	0.79	0.081	1	02/14/14 08:57	02/14/14 18:28	7440-43-9	
Chromium	**14.9**	mg/kg	0.79	0.20	1	02/14/14 08:57	02/14/14 18:28	7440-47-3	
Iron	**9180**	mg/kg	15.9	4.3	1	02/14/14 08:57	02/14/14 18:28	7439-89-6	
Lead	**66.3**	mg/kg	1.6	0.46	1	02/14/14 08:57	02/14/14 18:28	7439-92-1	
Manganese	**257**	mg/kg	0.79	0.049	1	02/14/14 08:57	02/14/14 18:28	7439-96-5	
Selenium	**<0.94**	mg/kg	3.2	0.94	1	02/14/14 08:57	02/14/14 18:28	7782-49-2	
Silver	**<0.34**	mg/kg	1.6	0.34	1	02/14/14 08:57	02/14/14 18:28	7440-22-4	
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
	Leachate Method/Date: EPA 1311; 02/19/14 00:00								
Lead	**0.089**	mg/L	0.038	0.015	1	02/20/14 09:45	02/24/14 11:44	7439-92-1	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.049**	mg/kg	0.0086	0.0043	1	02/18/14 14:50	02/19/14 16:11	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**0.044J**	mg/kg	0.057	0.028	2	02/19/14 09:27	02/20/14 10:55	83-32-9	
Acenaphthylene	**<0.025**	mg/kg	0.057	0.025	2	02/19/14 09:27	02/20/14 10:55	208-96-8	
Anthracene	**0.13**	mg/kg	0.057	0.029	2	02/19/14 09:27	02/20/14 10:55	120-12-7	
Benzo(a)anthracene	**0.39**	mg/kg	0.057	0.020	2	02/19/14 09:27	02/20/14 10:55	56-55-3	
Benzo(a)pyrene	**0.45**	mg/kg	0.057	0.020	2	02/19/14 09:27	02/20/14 10:55	50-32-8	
Benzo(b)fluoranthene	**0.47**	mg/kg	0.057	0.028	2	02/19/14 09:27	02/20/14 10:55	205-99-2	
Benzo(g,h,i)perylene	**0.36**	mg/kg	0.057	0.022	2	02/19/14 09:27	02/20/14 10:55	191-24-2	
Benzo(k)fluoranthene	**0.43**	mg/kg	0.057	0.031	2	02/19/14 09:27	02/20/14 10:55	207-08-9	
Chrysene	**0.52**	mg/kg	0.057	0.026	2	02/19/14 09:27	02/20/14 10:55	218-01-9	
Dibenz(a,h)anthracene	**0.12**	mg/kg	0.057	0.021	2	02/19/14 09:27	02/20/14 10:55	53-70-3	
Fluoranthene	**1.1**	mg/kg	0.057	0.028	2	02/19/14 09:27	02/20/14 10:55	206-44-0	
Fluorene	**0.050J**	mg/kg	0.057	0.028	2	02/19/14 09:27	02/20/14 10:55	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.32**	mg/kg	0.057	0.021	2	02/19/14 09:27	02/20/14 10:55	193-39-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

Sample: B7-S1 **Lab ID: 4092070003** Collected: 02/11/14 08:15 Received: 02/13/14 08:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
1-Methylnaphthalene	**<0.028**	mg/kg	0.057	0.028	2	02/19/14 09:27	02/20/14 10:55	90-12-0	
2-Methylnaphthalene	**<0.028**	mg/kg	0.057	0.028	2	02/19/14 09:27	02/20/14 10:55	91-57-6	
Naphthalene	**0.052J**	mg/kg	0.057	0.028	2	02/19/14 09:27	02/20/14 10:55	91-20-3	
Phenanthrene	**0.59**	mg/kg	0.057	0.028	2	02/19/14 09:27	02/20/14 10:55	85-01-8	
Pyrene	**0.86**	mg/kg	0.057	0.028	2	02/19/14 09:27	02/20/14 10:55	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	54	%	40-130		2	02/19/14 09:27	02/20/14 10:55	321-60-8	
Terphenyl-d14 (S)	47	%	40-130		2	02/19/14 09:27	02/20/14 10:55	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**41.1**	%	0.10	0.10	1		02/13/14 14:25		
Total Organic Carbon	Analytical Method: EPA 9060 Modified								
Surrogates									
RPD%	**17.4**	%	0.10	0.10	1		02/20/14 12:44		
Total Organic Carbon	**34300**	mg/kg	7690	956	1		02/20/14 12:40	7440-44-0	
Total Organic Carbon	**28800**	mg/kg	8330	1040	1		02/20/14 12:44	7440-44-0	
Mean Total Organic Carbon	**31500**	mg/kg	8010	996	1		02/20/14 12:44	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

Sample: B7-S2 **Lab ID: 4092070004** Collected: 02/11/14 08:30 Received: 02/13/14 08:40 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)	**<0.039**	mg/kg	0.078	0.039	1	02/14/14 10:52	02/17/14 17:01	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.039**	mg/kg	0.078	0.039	1	02/14/14 10:52	02/17/14 17:01	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.039**	mg/kg	0.078	0.039	1	02/14/14 10:52	02/17/14 17:01	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.039**	mg/kg	0.078	0.039	1	02/14/14 10:52	02/17/14 17:01	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.039**	mg/kg	0.078	0.039	1	02/14/14 10:52	02/17/14 17:01	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.039**	mg/kg	0.078	0.039	1	02/14/14 10:52	02/17/14 17:01	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.039**	mg/kg	0.078	0.039	1	02/14/14 10:52	02/17/14 17:01	11096-82-5	
PCB, Total	**<0.039**	mg/kg	0.078	0.039	1	02/14/14 10:52	02/17/14 17:01	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	73	%	40-130		1	02/14/14 10:52	02/17/14 17:01	877-09-8	
Decachlorobiphenyl (S)	83	%	48-130		1	02/14/14 10:52	02/17/14 17:01	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**4.4**	mg/kg	2.7	0.74	1	02/14/14 08:57	02/14/14 18:30	7440-38-2	
Barium	**38.0**	mg/kg	0.68	0.12	1	02/14/14 08:57	02/14/14 18:30	7440-39-3	
Cadmium	**0.33J**	mg/kg	0.68	0.070	1	02/14/14 08:57	02/14/14 18:30	7440-43-9	
Chromium	**10.0**	mg/kg	0.68	0.17	1	02/14/14 08:57	02/14/14 18:30	7440-47-3	
Iron	**6680**	mg/kg	13.7	3.7	1	02/14/14 08:57	02/14/14 18:30	7439-89-6	
Lead	**13.5**	mg/kg	1.4	0.40	1	02/14/14 08:57	02/14/14 18:30	7439-92-1	
Manganese	**184**	mg/kg	0.68	0.042	1	02/14/14 08:57	02/14/14 18:30	7439-96-5	
Selenium	**<0.81**	mg/kg	2.7	0.81	1	02/14/14 08:57	02/14/14 18:30	7782-49-2	
Silver	**<0.29**	mg/kg	1.4	0.29	1	02/14/14 08:57	02/14/14 18:30	7440-22-4	
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
	Leachate Method/Date: EPA 1311; 02/19/14 00:00								
Lead	**0.054**	mg/L	0.038	0.015	1	02/20/14 09:45	02/24/14 11:56	7439-92-1	1q
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.016**	mg/kg	0.0084	0.0042	1	02/18/14 14:50	02/19/14 16:13	7439-97-6	2q
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<0.013**	mg/kg	0.026	0.013	1	02/19/14 09:27	02/19/14 15:05	83-32-9	
Acenaphthylene	**<0.012**	mg/kg	0.026	0.012	1	02/19/14 09:27	02/19/14 15:05	208-96-8	
Anthracene	**<0.013**	mg/kg	0.026	0.013	1	02/19/14 09:27	02/19/14 15:05	120-12-7	
Benzo(a)anthracene	**0.025J**	mg/kg	0.026	0.0090	1	02/19/14 09:27	02/19/14 15:05	56-55-3	
Benzo(a)pyrene	**0.026J**	mg/kg	0.026	0.0093	1	02/19/14 09:27	02/19/14 15:05	50-32-8	
Benzo(b)fluoranthene	**0.029**	mg/kg	0.026	0.013	1	02/19/14 09:27	02/19/14 15:05	205-99-2	
Benzo(g,h,i)perylene	**0.018J**	mg/kg	0.026	0.0099	1	02/19/14 09:27	02/19/14 15:05	191-24-2	
Benzo(k)fluoranthene	**0.024J**	mg/kg	0.026	0.014	1	02/19/14 09:27	02/19/14 15:05	207-08-9	
Chrysene	**0.032**	mg/kg	0.026	0.012	1	02/19/14 09:27	02/19/14 15:05	218-01-9	
Dibenz(a,h)anthracene	**<0.0095**	mg/kg	0.026	0.0095	1	02/19/14 09:27	02/19/14 15:05	53-70-3	
Fluoranthene	**0.070**	mg/kg	0.026	0.013	1	02/19/14 09:27	02/19/14 15:05	206-44-0	
Fluorene	**<0.013**	mg/kg	0.026	0.013	1	02/19/14 09:27	02/19/14 15:05	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.015J**	mg/kg	0.026	0.0099	1	02/19/14 09:27	02/19/14 15:05	193-39-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

Sample: B7-S2 **Lab ID: 4092070004** Collected: 02/11/14 08:30 Received: 02/13/14 08:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
1-Methylnaphthalene	**<0.013**	mg/kg	0.026	0.013	1	02/19/14 09:27	02/19/14 15:05	90-12-0	
2-Methylnaphthalene	**<0.013**	mg/kg	0.026	0.013	1	02/19/14 09:27	02/19/14 15:05	91-57-6	
Naphthalene	**<0.013**	mg/kg	0.026	0.013	1	02/19/14 09:27	02/19/14 15:05	91-20-3	
Phenanthrene	**0.037**	mg/kg	0.026	0.013	1	02/19/14 09:27	02/19/14 15:05	85-01-8	
Pyrene	**0.059**	mg/kg	0.026	0.013	1	02/19/14 09:27	02/19/14 15:05	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58	%	40-130		1	02/19/14 09:27	02/19/14 15:05	321-60-8	
Terphenyl-d14 (S)	50	%	40-130		1	02/19/14 09:27	02/19/14 15:05	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**35.8**	%	0.10	0.10	1		02/13/14 14:25		
Total Organic Carbon	Analytical Method: EPA 9060 Modified								
Surrogates									
RPD%	**32.8**	%	0.10	0.10	1		02/20/14 12:55		
Total Organic Carbon	**20200**	mg/kg	9090	1130	1		02/20/14 12:47	7440-44-0	
Total Organic Carbon	**28100**	mg/kg	7140	888	1		02/20/14 12:55	7440-44-0	
Mean Total Organic Carbon	**24200**	mg/kg	8120	1010	1		02/20/14 12:55	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

Sample: B8-S1 **Lab ID: 4092070005** Collected: 02/11/14 09:00 Received: 02/13/14 08:40 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)	**<0.035**	mg/kg	0.071	0.035	1	02/14/14 10:52	02/17/14 17:18	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.035**	mg/kg	0.071	0.035	1	02/14/14 10:52	02/17/14 17:18	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.035**	mg/kg	0.071	0.035	1	02/14/14 10:52	02/17/14 17:18	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.035**	mg/kg	0.071	0.035	1	02/14/14 10:52	02/17/14 17:18	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.035**	mg/kg	0.071	0.035	1	02/14/14 10:52	02/17/14 17:18	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.035**	mg/kg	0.071	0.035	1	02/14/14 10:52	02/17/14 17:18	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.035**	mg/kg	0.071	0.035	1	02/14/14 10:52	02/17/14 17:18	11096-82-5	
PCB, Total	**<0.035**	mg/kg	0.071	0.035	1	02/14/14 10:52	02/17/14 17:18	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	73	%	40-130		1	02/14/14 10:52	02/17/14 17:18	877-09-8	
Decachlorobiphenyl (S)	82	%	48-130		1	02/14/14 10:52	02/17/14 17:18	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**6.8**	mg/kg	2.6	0.71	1	02/14/14 08:57	02/14/14 18:33	7440-38-2	
Barium	**57.4**	mg/kg	0.66	0.11	1	02/14/14 08:57	02/14/14 18:33	7440-39-3	
Cadmium	**0.35J**	mg/kg	0.66	0.067	1	02/14/14 08:57	02/14/14 18:33	7440-43-9	
Chromium	**13.1**	mg/kg	0.66	0.16	1	02/14/14 08:57	02/14/14 18:33	7440-47-3	
Iron	**9140**	mg/kg	13.1	3.5	1	02/14/14 08:57	02/14/14 18:33	7439-89-6	
Lead	**6.3**	mg/kg	1.3	0.38	1	02/14/14 08:57	02/14/14 18:33	7439-92-1	
Manganese	**220**	mg/kg	0.66	0.040	1	02/14/14 08:57	02/14/14 18:33	7439-96-5	
Selenium	**<0.78**	mg/kg	2.6	0.78	1	02/14/14 08:57	02/14/14 18:33	7782-49-2	
Silver	**<0.28**	mg/kg	1.3	0.28	1	02/14/14 08:57	02/14/14 18:33	7440-22-4	
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
	Leachate Method/Date: EPA 1311; 02/19/14 00:00								
Lead	**<0.015**	mg/L	0.038	0.015	1	02/20/14 09:45	02/24/14 11:46	7439-92-1	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.0089**	mg/kg	0.0073	0.0036	1	02/18/14 14:50	02/19/14 16:21	7439-97-6	2q
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<0.012**	mg/kg	0.024	0.012	1	02/19/14 09:27	02/19/14 15:23	83-32-9	
Acenaphthylene	**<0.011**	mg/kg	0.024	0.011	1	02/19/14 09:27	02/19/14 15:23	208-96-8	
Anthracene	**<0.012**	mg/kg	0.024	0.012	1	02/19/14 09:27	02/19/14 15:23	120-12-7	
Benzo(a)anthracene	**<0.0082**	mg/kg	0.024	0.0082	1	02/19/14 09:27	02/19/14 15:23	56-55-3	
Benzo(a)pyrene	**<0.0084**	mg/kg	0.024	0.0084	1	02/19/14 09:27	02/19/14 15:23	50-32-8	
Benzo(b)fluoranthene	**<0.012**	mg/kg	0.024	0.012	1	02/19/14 09:27	02/19/14 15:23	205-99-2	
Benzo(g,h,i)perylene	**<0.0090**	mg/kg	0.024	0.0090	1	02/19/14 09:27	02/19/14 15:23	191-24-2	
Benzo(k)fluoranthene	**<0.013**	mg/kg	0.024	0.013	1	02/19/14 09:27	02/19/14 15:23	207-08-9	
Chrysene	**<0.011**	mg/kg	0.024	0.011	1	02/19/14 09:27	02/19/14 15:23	218-01-9	
Dibenz(a,h)anthracene	**<0.0086**	mg/kg	0.024	0.0086	1	02/19/14 09:27	02/19/14 15:23	53-70-3	
Fluoranthene	**<0.012**	mg/kg	0.024	0.012	1	02/19/14 09:27	02/19/14 15:23	206-44-0	
Fluorene	**<0.012**	mg/kg	0.024	0.012	1	02/19/14 09:27	02/19/14 15:23	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0089**	mg/kg	0.024	0.0089	1	02/19/14 09:27	02/19/14 15:23	193-39-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

Sample: B8-S1 **Lab ID: 4092070005** Collected: 02/11/14 09:00 Received: 02/13/14 08:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
1-Methylnaphthalene	**<0.012**	mg/kg	0.024	0.012	1	02/19/14 09:27	02/19/14 15:23	90-12-0	
2-Methylnaphthalene	**<0.012**	mg/kg	0.024	0.012	1	02/19/14 09:27	02/19/14 15:23	91-57-6	
Naphthalene	**<0.012**	mg/kg	0.024	0.012	1	02/19/14 09:27	02/19/14 15:23	91-20-3	
Phenanthrene	**<0.012**	mg/kg	0.024	0.012	1	02/19/14 09:27	02/19/14 15:23	85-01-8	
Pyrene	**<0.012**	mg/kg	0.024	0.012	1	02/19/14 09:27	02/19/14 15:23	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	60	%	40-130		1	02/19/14 09:27	02/19/14 15:23	321-60-8	
Terphenyl-d14 (S)	58	%	40-130		1	02/19/14 09:27	02/19/14 15:23	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**29.2**	%	0.10	0.10	1		02/13/14 14:25		
Total Organic Carbon	Analytical Method: EPA 9060 Modified								
Surrogates									
RPD%	**22.4**	%	0.10	0.10	1		02/20/14 13:02		
Total Organic Carbon	**8600**	mg/kg	4760	592	1		02/20/14 12:58	7440-44-0	
Total Organic Carbon	**10800**	mg/kg	4350	541	1		02/20/14 13:02	7440-44-0	
Mean Total Organic Carbon	**9690**	mg/kg	4550	566	1		02/20/14 13:02	7440-44-0	

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

Sample: B8-S2 **Lab ID: 4092070006** Collected: 02/11/14 09:15 Received: 02/13/14 08:40 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)	**<0.032**	mg/kg	0.064	0.032	1	02/14/14 10:52	02/17/14 17:35	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.032**	mg/kg	0.064	0.032	1	02/14/14 10:52	02/17/14 17:35	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.032**	mg/kg	0.064	0.032	1	02/14/14 10:52	02/17/14 17:35	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.032**	mg/kg	0.064	0.032	1	02/14/14 10:52	02/17/14 17:35	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.032**	mg/kg	0.064	0.032	1	02/14/14 10:52	02/17/14 17:35	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.032**	mg/kg	0.064	0.032	1	02/14/14 10:52	02/17/14 17:35	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.032**	mg/kg	0.064	0.032	1	02/14/14 10:52	02/17/14 17:35	11096-82-5	
PCB, Total	**<0.032**	mg/kg	0.064	0.032	1	02/14/14 10:52	02/17/14 17:35	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	72	%	40-130		1	02/14/14 10:52	02/17/14 17:35	877-09-8	
Decachlorobiphenyl (S)	84	%	48-130		1	02/14/14 10:52	02/17/14 17:35	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**5.8**	mg/kg	2.2	0.59	1	02/14/14 08:57	02/14/14 18:35	7440-38-2	
Barium	**10.1**	mg/kg	0.55	0.095	1	02/14/14 08:57	02/14/14 18:35	7440-39-3	
Cadmium	**0.076J**	mg/kg	0.55	0.056	1	02/14/14 08:57	02/14/14 18:35	7440-43-9	
Chromium	**3.7**	mg/kg	0.55	0.14	1	02/14/14 08:57	02/14/14 18:35	7440-47-3	
Iron	**2890**	mg/kg	11.0	2.9	1	02/14/14 08:57	02/14/14 18:35	7439-89-6	
Lead	**1.4**	mg/kg	1.1	0.32	1	02/14/14 08:57	02/14/14 18:35	7439-92-1	
Manganese	**111**	mg/kg	0.55	0.034	1	02/14/14 08:57	02/14/14 18:35	7439-96-5	
Selenium	**<0.65**	mg/kg	2.2	0.65	1	02/14/14 08:57	02/14/14 18:35	7782-49-2	
Silver	**<0.23**	mg/kg	1.1	0.23	1	02/14/14 08:57	02/14/14 18:35	7440-22-4	
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
	Leachate Method/Date: EPA 1311; 02/19/14 00:00								
Lead	**<0.015**	mg/L	0.038	0.015	1	02/20/14 09:45	02/24/14 11:49	7439-92-1	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**<0.0035**	mg/kg	0.0071	0.0035	1	02/18/14 14:50	02/19/14 16:23	7439-97-6	2q
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<0.011**	mg/kg	0.021	0.011	1	02/19/14 09:27	02/19/14 15:40	83-32-9	
Acenaphthylene	**<0.0095**	mg/kg	0.021	0.0095	1	02/19/14 09:27	02/19/14 15:40	208-96-8	
Anthracene	**<0.011**	mg/kg	0.021	0.011	1	02/19/14 09:27	02/19/14 15:40	120-12-7	
Benzo(a)anthracene	**<0.0074**	mg/kg	0.021	0.0074	1	02/19/14 09:27	02/19/14 15:40	56-55-3	
Benzo(a)pyrene	**<0.0076**	mg/kg	0.021	0.0076	1	02/19/14 09:27	02/19/14 15:40	50-32-8	
Benzo(b)fluoranthene	**<0.011**	mg/kg	0.021	0.011	1	02/19/14 09:27	02/19/14 15:40	205-99-2	
Benzo(g,h,i)perylene	**<0.0081**	mg/kg	0.021	0.0081	1	02/19/14 09:27	02/19/14 15:40	191-24-2	
Benzo(k)fluoranthene	**<0.012**	mg/kg	0.021	0.012	1	02/19/14 09:27	02/19/14 15:40	207-08-9	
Chrysene	**<0.0098**	mg/kg	0.021	0.0098	1	02/19/14 09:27	02/19/14 15:40	218-01-9	
Dibenz(a,h)anthracene	**<0.0078**	mg/kg	0.021	0.0078	1	02/19/14 09:27	02/19/14 15:40	53-70-3	
Fluoranthene	**<0.011**	mg/kg	0.021	0.011	1	02/19/14 09:27	02/19/14 15:40	206-44-0	
Fluorene	**<0.011**	mg/kg	0.021	0.011	1	02/19/14 09:27	02/19/14 15:40	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0081**	mg/kg	0.021	0.0081	1	02/19/14 09:27	02/19/14 15:40	193-39-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

Sample: B8-S2 **Lab ID: 4092070006** Collected: 02/11/14 09:15 Received: 02/13/14 08:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
1-Methylnaphthalene	**<0.011**	mg/kg	0.021	0.011	1	02/19/14 09:27	02/19/14 15:40	90-12-0	
2-Methylnaphthalene	**<0.011**	mg/kg	0.021	0.011	1	02/19/14 09:27	02/19/14 15:40	91-57-6	
Naphthalene	**<0.011**	mg/kg	0.021	0.011	1	02/19/14 09:27	02/19/14 15:40	91-20-3	
Phenanthrene	**<0.011**	mg/kg	0.021	0.011	1	02/19/14 09:27	02/19/14 15:40	85-01-8	
Pyrene	**<0.011**	mg/kg	0.021	0.011	1	02/19/14 09:27	02/19/14 15:40	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%	40-130		1	02/19/14 09:27	02/19/14 15:40	321-60-8	
Terphenyl-d14 (S)	70	%	40-130		1	02/19/14 09:27	02/19/14 15:40	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.7**	%	0.10	0.10	1		02/13/14 14:25		
Total Organic Carbon	Analytical Method: EPA 9060 Modified								
Surrogates									
RPD%	**7.5**	%	0.10	0.10	1		02/20/14 13:09		
Total Organic Carbon	**863**	mg/kg	345	42.9	1		02/20/14 13:07	7440-44-0	
Total Organic Carbon	**800**	mg/kg	356	44.2	1		02/20/14 13:09	7440-44-0	
Mean Total Organic Carbon	**832**	mg/kg	350	43.6	1		02/20/14 13:09	7440-44-0	

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

Sample: B9-S1 **Lab ID: 4092070007** Collected: 02/11/14 09:45 Received: 02/13/14 08:40 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)	**<0.037**	mg/kg	0.075	0.037	1	02/14/14 10:52	02/17/14 17:53	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.037**	mg/kg	0.075	0.037	1	02/14/14 10:52	02/17/14 17:53	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.037**	mg/kg	0.075	0.037	1	02/14/14 10:52	02/17/14 17:53	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.037**	mg/kg	0.075	0.037	1	02/14/14 10:52	02/17/14 17:53	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.037**	mg/kg	0.075	0.037	1	02/14/14 10:52	02/17/14 17:53	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.037**	mg/kg	0.075	0.037	1	02/14/14 10:52	02/17/14 17:53	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.037**	mg/kg	0.075	0.037	1	02/14/14 10:52	02/17/14 17:53	11096-82-5	
PCB, Total	**<0.037**	mg/kg	0.075	0.037	1	02/14/14 10:52	02/17/14 17:53	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	72	%	40-130		1	02/14/14 10:52	02/17/14 17:53	877-09-8	
Decachlorobiphenyl (S)	78	%	48-130		1	02/14/14 10:52	02/17/14 17:53	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**7.3**	mg/kg	2.5	0.68	1	02/14/14 08:57	02/14/14 18:37	7440-38-2	
Barium	**72.6**	mg/kg	0.63	0.11	1	02/14/14 08:57	02/14/14 18:37	7440-39-3	
Cadmium	**0.51J**	mg/kg	0.63	0.064	1	02/14/14 08:57	02/14/14 18:37	7440-43-9	
Chromium	**22.6**	mg/kg	0.63	0.16	1	02/14/14 08:57	02/14/14 18:37	7440-47-3	
Iron	**16000**	mg/kg	12.6	3.4	1	02/14/14 08:57	02/14/14 18:37	7439-89-6	
Lead	**22.8**	mg/kg	1.3	0.37	1	02/14/14 08:57	02/14/14 18:37	7439-92-1	
Manganese	**527**	mg/kg	0.63	0.039	1	02/14/14 08:57	02/14/14 18:37	7439-96-5	
Selenium	**<0.75**	mg/kg	2.5	0.75	1	02/14/14 08:57	02/14/14 18:37	7782-49-2	
Silver	**<0.27**	mg/kg	1.3	0.27	1	02/14/14 08:57	02/14/14 18:37	7440-22-4	
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
	Leachate Method/Date: EPA 1311; 02/19/14 00:00								
Lead	**0.038**	mg/L	0.038	0.015	1	02/20/14 09:45	02/24/14 11:51	7439-92-1	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.029**	mg/kg	0.0080	0.0040	1	02/18/14 14:50	02/19/14 16:27	7439-97-6	2q
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<0.012**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 15:57	83-32-9	
Acenaphthylene	**<0.011**	mg/kg	0.025	0.011	1	02/19/14 09:27	02/19/14 15:57	208-96-8	
Anthracene	**<0.013**	mg/kg	0.025	0.013	1	02/19/14 09:27	02/19/14 15:57	120-12-7	
Benzo(a)anthracene	**0.039**	mg/kg	0.025	0.0086	1	02/19/14 09:27	02/19/14 15:57	56-55-3	
Benzo(a)pyrene	**0.048**	mg/kg	0.025	0.0089	1	02/19/14 09:27	02/19/14 15:57	50-32-8	
Benzo(b)fluoranthene	**0.063**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 15:57	205-99-2	
Benzo(g,h,i)perylene	**0.039**	mg/kg	0.025	0.0095	1	02/19/14 09:27	02/19/14 15:57	191-24-2	
Benzo(k)fluoranthene	**0.050**	mg/kg	0.025	0.014	1	02/19/14 09:27	02/19/14 15:57	207-08-9	
Chrysene	**0.069**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 15:57	218-01-9	
Dibenz(a,h)anthracene	**0.010J**	mg/kg	0.025	0.0091	1	02/19/14 09:27	02/19/14 15:57	53-70-3	
Fluoranthene	**0.13**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 15:57	206-44-0	
Fluorene	**<0.012**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 15:57	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.033**	mg/kg	0.025	0.0095	1	02/19/14 09:27	02/19/14 15:57	193-39-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

Sample: B9-S1 **Lab ID: 4092070007** Collected: 02/11/14 09:45 Received: 02/13/14 08:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
1-Methylnaphthalene	**<0.012**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 15:57	90-12-0	
2-Methylnaphthalene	**<0.012**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 15:57	91-57-6	
Naphthalene	**<0.012**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 15:57	91-20-3	
Phenanthrene	**0.051**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 15:57	85-01-8	
Pyrene	**0.11**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 15:57	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	63	%	40-130		1	02/19/14 09:27	02/19/14 15:57	321-60-8	
Terphenyl-d14 (S)	68	%	40-130		1	02/19/14 09:27	02/19/14 15:57	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**33.0**	%	0.10	0.10	1		02/13/14 14:25		
Total Organic Carbon	Analytical Method: EPA 9060 Modified								
Surrogates									
RPD%	**28.2**	%	0.10	0.10	1		02/20/14 13:15		
Total Organic Carbon	**18900**	mg/kg	7140	888	1		02/20/14 13:12	7440-44-0	
Total Organic Carbon	**25100**	mg/kg	6250	777	1		02/20/14 13:15	7440-44-0	
Mean Total Organic Carbon	**22000**	mg/kg	6700	833	1		02/20/14 13:15	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

Sample: B9-S2 **Lab ID: 4092070008** Collected: 02/11/14 10:00 Received: 02/13/14 08:40 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)	**<0.037**	mg/kg	0.074	0.037	1	02/14/14 10:52	02/17/14 18:10	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.037**	mg/kg	0.074	0.037	1	02/14/14 10:52	02/17/14 18:10	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.037**	mg/kg	0.074	0.037	1	02/14/14 10:52	02/17/14 18:10	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.037**	mg/kg	0.074	0.037	1	02/14/14 10:52	02/17/14 18:10	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.037**	mg/kg	0.074	0.037	1	02/14/14 10:52	02/17/14 18:10	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.037**	mg/kg	0.074	0.037	1	02/14/14 10:52	02/17/14 18:10	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.037**	mg/kg	0.074	0.037	1	02/14/14 10:52	02/17/14 18:10	11096-82-5	
PCB, Total	**<0.037**	mg/kg	0.074	0.037	1	02/14/14 10:52	02/17/14 18:10	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	74	%	40-130		1	02/14/14 10:52	02/17/14 18:10	877-09-8	
Decachlorobiphenyl (S)	84	%	48-130		1	02/14/14 10:52	02/17/14 18:10	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**9.4**	mg/kg	2.8	0.75	1	02/14/14 08:57	02/14/14 18:39	7440-38-2	
Barium	**128**	mg/kg	0.69	0.12	1	02/14/14 08:57	02/14/14 18:39	7440-39-3	
Cadmium	**0.50J**	mg/kg	0.69	0.070	1	02/14/14 08:57	02/14/14 18:39	7440-43-9	
Chromium	**18.1**	mg/kg	0.69	0.17	1	02/14/14 08:57	02/14/14 18:39	7440-47-3	
Iron	**14400**	mg/kg	13.8	3.7	1	02/14/14 08:57	02/14/14 18:39	7439-89-6	
Lead	**9.1**	mg/kg	1.4	0.41	1	02/14/14 08:57	02/14/14 18:39	7439-92-1	
Manganese	**495**	mg/kg	0.69	0.043	1	02/14/14 08:57	02/14/14 18:39	7439-96-5	
Selenium	**<0.82**	mg/kg	2.8	0.82	1	02/14/14 08:57	02/14/14 18:39	7782-49-2	
Silver	**<0.30**	mg/kg	1.4	0.30	1	02/14/14 08:57	02/14/14 18:39	7440-22-4	
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
	Leachate Method/Date: EPA 1311; 02/20/14 00:00								
Lead	**<0.015**	mg/L	0.038	0.015	1	02/21/14 08:30	02/24/14 12:18	7439-92-1	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.019**	mg/kg	0.0082	0.0041	1	02/18/14 14:50	02/19/14 16:29	7439-97-6	2q
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<0.012**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 16:14	83-32-9	
Acenaphthylene	**<0.011**	mg/kg	0.025	0.011	1	02/19/14 09:27	02/19/14 16:14	208-96-8	
Anthracene	**<0.013**	mg/kg	0.025	0.013	1	02/19/14 09:27	02/19/14 16:14	120-12-7	
Benzo(a)anthracene	**<0.0085**	mg/kg	0.025	0.0085	1	02/19/14 09:27	02/19/14 16:14	56-55-3	
Benzo(a)pyrene	**<0.0088**	mg/kg	0.025	0.0088	1	02/19/14 09:27	02/19/14 16:14	50-32-8	
Benzo(b)fluoranthene	**<0.012**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 16:14	205-99-2	
Benzo(g,h,i)perylene	**<0.0094**	mg/kg	0.025	0.0094	1	02/19/14 09:27	02/19/14 16:14	191-24-2	
Benzo(k)fluoranthene	**<0.014**	mg/kg	0.025	0.014	1	02/19/14 09:27	02/19/14 16:14	207-08-9	
Chrysene	**<0.011**	mg/kg	0.025	0.011	1	02/19/14 09:27	02/19/14 16:14	218-01-9	
Dibenz(a,h)anthracene	**<0.0090**	mg/kg	0.025	0.0090	1	02/19/14 09:27	02/19/14 16:14	53-70-3	
Fluoranthene	**<0.012**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 16:14	206-44-0	
Fluorene	**<0.012**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 16:14	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0093**	mg/kg	0.025	0.0093	1	02/19/14 09:27	02/19/14 16:14	193-39-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

Sample: B9-S2 **Lab ID: 4092070008** Collected: 02/11/14 10:00 Received: 02/13/14 08:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
1-Methylnaphthalene	**<0.012**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 16:14	90-12-0	
2-Methylnaphthalene	**<0.012**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 16:14	91-57-6	
Naphthalene	**<0.012**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 16:14	91-20-3	
Phenanthrene	**<0.012**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 16:14	85-01-8	
Pyrene	**<0.012**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 16:14	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64	%	40-130		1	02/19/14 09:27	02/19/14 16:14	321-60-8	
Terphenyl-d14 (S)	69	%	40-130		1	02/19/14 09:27	02/19/14 16:14	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**32.1**	%	0.10	0.10	1		02/13/14 14:25		
Total Organic Carbon	Analytical Method: EPA 9060 Modified								
Surrogates									
RPD%	**2.1**	%	0.10	0.10	1		02/20/14 13:22		
Total Organic Carbon	**6600**	mg/kg	2440	303	1		02/20/14 13:18	7440-44-0	
Total Organic Carbon	**6730**	mg/kg	2630	327	1		02/20/14 13:22	7440-44-0	
Mean Total Organic Carbon	**6660**	mg/kg	2540	315	1		02/20/14 13:22	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

Sample: B10-S1 **Lab ID: 4092070009** Collected: 02/11/14 10:30 Received: 02/13/14 08:40 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)	**<0.037**	mg/kg	0.074	0.037	1	02/14/14 10:52	02/17/14 18:28	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.037**	mg/kg	0.074	0.037	1	02/14/14 10:52	02/17/14 18:28	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.037**	mg/kg	0.074	0.037	1	02/14/14 10:52	02/17/14 18:28	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.037**	mg/kg	0.074	0.037	1	02/14/14 10:52	02/17/14 18:28	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.037**	mg/kg	0.074	0.037	1	02/14/14 10:52	02/17/14 18:28	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.037**	mg/kg	0.074	0.037	1	02/14/14 10:52	02/17/14 18:28	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.037**	mg/kg	0.074	0.037	1	02/14/14 10:52	02/17/14 18:28	11096-82-5	
PCB, Total	**<0.037**	mg/kg	0.074	0.037	1	02/14/14 10:52	02/17/14 18:28	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	75	%	40-130		1	02/14/14 10:52	02/17/14 18:28	877-09-8	
Decachlorobiphenyl (S)	85	%	48-130		1	02/14/14 10:52	02/17/14 18:28	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**7.7**	mg/kg	2.9	0.78	1	02/14/14 08:57	02/14/14 18:42	7440-38-2	
Barium	**101**	mg/kg	0.72	0.13	1	02/14/14 08:57	02/14/14 18:42	7440-39-3	
Cadmium	**0.50J**	mg/kg	0.72	0.074	1	02/14/14 08:57	02/14/14 18:42	7440-43-9	
Chromium	**20.0**	mg/kg	0.72	0.18	1	02/14/14 08:57	02/14/14 18:42	7440-47-3	
Iron	**14000**	mg/kg	14.5	3.9	1	02/14/14 08:57	02/14/14 18:42	7439-89-6	
Lead	**15.3**	mg/kg	1.4	0.42	1	02/14/14 08:57	02/14/14 18:42	7439-92-1	
Manganese	**354**	mg/kg	0.72	0.045	1	02/14/14 08:57	02/14/14 18:42	7439-96-5	
Selenium	**<0.86**	mg/kg	2.9	0.86	1	02/14/14 08:57	02/14/14 18:42	7782-49-2	
Silver	**<0.31**	mg/kg	1.4	0.31	1	02/14/14 08:57	02/14/14 18:42	7440-22-4	
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
	Leachate Method/Date: EPA 1311; 02/20/14 00:00								
Lead	**0.015J**	mg/L	0.038	0.015	1	02/21/14 08:30	02/24/14 12:29	7439-92-1	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.018**	mg/kg	0.0097	0.0049	1	02/18/14 14:50	02/19/14 16:31	7439-97-6	2q
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<0.012**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 16:32	83-32-9	
Acenaphthylene	**<0.011**	mg/kg	0.025	0.011	1	02/19/14 09:27	02/19/14 16:32	208-96-8	
Anthracene	**<0.013**	mg/kg	0.025	0.013	1	02/19/14 09:27	02/19/14 16:32	120-12-7	
Benzo(a)anthracene	**<0.0085**	mg/kg	0.025	0.0085	1	02/19/14 09:27	02/19/14 16:32	56-55-3	
Benzo(a)pyrene	**<0.0088**	mg/kg	0.025	0.0088	1	02/19/14 09:27	02/19/14 16:32	50-32-8	
Benzo(b)fluoranthene	**<0.012**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 16:32	205-99-2	
Benzo(g,h,i)perylene	**<0.0094**	mg/kg	0.025	0.0094	1	02/19/14 09:27	02/19/14 16:32	191-24-2	
Benzo(k)fluoranthene	**<0.014**	mg/kg	0.025	0.014	1	02/19/14 09:27	02/19/14 16:32	207-08-9	
Chrysene	**<0.011**	mg/kg	0.025	0.011	1	02/19/14 09:27	02/19/14 16:32	218-01-9	
Dibenz(a,h)anthracene	**<0.0090**	mg/kg	0.025	0.0090	1	02/19/14 09:27	02/19/14 16:32	53-70-3	
Fluoranthene	**0.019J**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 16:32	206-44-0	
Fluorene	**<0.012**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 16:32	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0094**	mg/kg	0.025	0.0094	1	02/19/14 09:27	02/19/14 16:32	193-39-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

Sample: B10-S1 **Lab ID: 4092070009** Collected: 02/11/14 10:30 Received: 02/13/14 08:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
1-Methylnaphthalene	**<0.012**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 16:32	90-12-0	
2-Methylnaphthalene	**<0.012**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 16:32	91-57-6	
Naphthalene	**0.015J**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 16:32	91-20-3	
Phenanthrene	**<0.012**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 16:32	85-01-8	
Pyrene	**0.016J**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 16:32	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	61	%	40-130		1	02/19/14 09:27	02/19/14 16:32	321-60-8	
Terphenyl-d14 (S)	65	%	40-130		1	02/19/14 09:27	02/19/14 16:32	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**32.3**	%	0.10	0.10	1		02/13/14 14:25		
Total Organic Carbon	Analytical Method: EPA 9060 Modified								
Surrogates									
RPD%	**24.3**	%	0.10	0.10	1		02/20/14 13:28		
Total Organic Carbon	**15100**	mg/kg	2080	259	1		02/20/14 13:25	7440-44-0	
Total Organic Carbon	**11800**	mg/kg	2270	283	1		02/20/14 13:28	7440-44-0	
Mean Total Organic Carbon	**13400**	mg/kg	2180	271	1		02/20/14 13:28	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

Sample: B10-S2 **Lab ID: 4092070010** Collected: 02/11/14 10:45 Received: 02/13/14 08:40 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)	**<0.038**	mg/kg	0.075	0.038	1	02/14/14 10:52	02/17/14 18:45	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.038**	mg/kg	0.075	0.038	1	02/14/14 10:52	02/17/14 18:45	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.038**	mg/kg	0.075	0.038	1	02/14/14 10:52	02/17/14 18:45	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.038**	mg/kg	0.075	0.038	1	02/14/14 10:52	02/17/14 18:45	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.038**	mg/kg	0.075	0.038	1	02/14/14 10:52	02/17/14 18:45	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.038**	mg/kg	0.075	0.038	1	02/14/14 10:52	02/17/14 18:45	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.038**	mg/kg	0.075	0.038	1	02/14/14 10:52	02/17/14 18:45	11096-82-5	
PCB, Total	**<0.038**	mg/kg	0.075	0.038	1	02/14/14 10:52	02/17/14 18:45	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	78	%	40-130		1	02/14/14 10:52	02/17/14 18:45	877-09-8	
Decachlorobiphenyl (S)	90	%	48-130		1	02/14/14 10:52	02/17/14 18:45	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**7.7**	mg/kg	2.6	0.70	1	02/14/14 08:57	02/14/14 18:44	7440-38-2	
Barium	**95.9**	mg/kg	0.64	0.11	1	02/14/14 08:57	02/14/14 18:44	7440-39-3	
Cadmium	**0.47J**	mg/kg	0.64	0.065	1	02/14/14 08:57	02/14/14 18:44	7440-43-9	
Chromium	**18.4**	mg/kg	0.64	0.16	1	02/14/14 08:57	02/14/14 18:44	7440-47-3	
Iron	**14500**	mg/kg	12.9	3.5	1	02/14/14 08:57	02/14/14 18:44	7439-89-6	
Lead	**8.4**	mg/kg	1.3	0.38	1	02/14/14 08:57	02/14/14 18:44	7439-92-1	
Manganese	**281**	mg/kg	0.64	0.040	1	02/14/14 08:57	02/14/14 18:44	7439-96-5	
Selenium	**<0.76**	mg/kg	2.6	0.76	1	02/14/14 08:57	02/14/14 18:44	7782-49-2	
Silver	**<0.27**	mg/kg	1.3	0.27	1	02/14/14 08:57	02/14/14 18:44	7440-22-4	
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
	Leachate Method/Date: EPA 1311; 02/20/14 00:00								
Lead	**<0.015**	mg/L	0.038	0.015	1	02/21/14 08:30	02/24/14 12:31	7439-92-1	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.015**	mg/kg	0.0094	0.0047	1	02/18/14 14:50	02/19/14 16:33	7439-97-6	2q
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<0.013**	mg/kg	0.025	0.013	1	02/19/14 09:27	02/19/14 16:49	83-32-9	
Acenaphthylene	**<0.011**	mg/kg	0.025	0.011	1	02/19/14 09:27	02/19/14 16:49	208-96-8	
Anthracene	**<0.013**	mg/kg	0.025	0.013	1	02/19/14 09:27	02/19/14 16:49	120-12-7	
Benzo(a)anthracene	**<0.0087**	mg/kg	0.025	0.0087	1	02/19/14 09:27	02/19/14 16:49	56-55-3	
Benzo(a)pyrene	**<0.0090**	mg/kg	0.025	0.0090	1	02/19/14 09:27	02/19/14 16:49	50-32-8	
Benzo(b)fluoranthene	**<0.013**	mg/kg	0.025	0.013	1	02/19/14 09:27	02/19/14 16:49	205-99-2	
Benzo(g,h,i)perylene	**<0.0095**	mg/kg	0.025	0.0095	1	02/19/14 09:27	02/19/14 16:49	191-24-2	
Benzo(k)fluoranthene	**<0.014**	mg/kg	0.025	0.014	1	02/19/14 09:27	02/19/14 16:49	207-08-9	
Chrysene	**<0.012**	mg/kg	0.025	0.012	1	02/19/14 09:27	02/19/14 16:49	218-01-9	
Dibenz(a,h)anthracene	**<0.0092**	mg/kg	0.025	0.0092	1	02/19/14 09:27	02/19/14 16:49	53-70-3	
Fluoranthene	**<0.013**	mg/kg	0.025	0.013	1	02/19/14 09:27	02/19/14 16:49	206-44-0	
Fluorene	**<0.013**	mg/kg	0.025	0.013	1	02/19/14 09:27	02/19/14 16:49	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0095**	mg/kg	0.025	0.0095	1	02/19/14 09:27	02/19/14 16:49	193-39-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

Sample: B10-S2 **Lab ID: 4092070010** Collected: 02/11/14 10:45 Received: 02/13/14 08:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
1-Methylnaphthalene	**<0.013**	mg/kg	0.025	0.013	1	02/19/14 09:27	02/19/14 16:49	90-12-0	
2-Methylnaphthalene	**<0.013**	mg/kg	0.025	0.013	1	02/19/14 09:27	02/19/14 16:49	91-57-6	
Naphthalene	**<0.013**	mg/kg	0.025	0.013	1	02/19/14 09:27	02/19/14 16:49	91-20-3	
Phenanthrene	**<0.013**	mg/kg	0.025	0.013	1	02/19/14 09:27	02/19/14 16:49	85-01-8	
Pyrene	**<0.013**	mg/kg	0.025	0.013	1	02/19/14 09:27	02/19/14 16:49	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	50	%	40-130		1	02/19/14 09:27	02/19/14 16:49	321-60-8	
Terphenyl-d14 (S)	50	%	40-130		1	02/19/14 09:27	02/19/14 16:49	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**33.5**	%	0.10	0.10	1		02/13/14 14:25		
Total Organic Carbon	Analytical Method: EPA 9060 Modified								
Surrogates									
RPD%	**5.9**	%	0.10	0.10	1		02/20/14 13:36		
Total Organic Carbon	**6770**	mg/kg	3030	377	1		02/20/14 13:31	7440-44-0	
Total Organic Carbon	**6380**	mg/kg	3120	389	1		02/20/14 13:36	7440-44-0	
Mean Total Organic Carbon	**6580**	mg/kg	3080	383	1		02/20/14 13:36	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

QC Batch: MERP/4109 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 4092070001, 4092070002, 4092070003, 4092070004, 4092070005, 4092070006, 4092070007, 4092070008, 4092070009, 4092070010

METHOD BLANK: 932376 Matrix: Solid
Associated Lab Samples: 4092070001, 4092070002, 4092070003, 4092070004, 4092070005, 4092070006, 4092070007, 4092070008, 4092070009, 4092070010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.0033	0.0067	02/19/14 15:36	

LABORATORY CONTROL SAMPLE: 932377

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.17	0.17	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 932378 932379

Parameter	Units	4091982001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.016	.19	.2	0.21	0.22	103	105	85-115	3	20	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

QC Batch: MPRP/9841 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 4092070001, 4092070002, 4092070003, 4092070004, 4092070005, 4092070006, 4092070007, 4092070008, 4092070009, 4092070010

METHOD BLANK: 931331 Matrix: Solid
Associated Lab Samples: 4092070001, 4092070002, 4092070003, 4092070004, 4092070005, 4092070006, 4092070007, 4092070008, 4092070009, 4092070010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<0.54	2.0	02/14/14 17:47	
Barium	mg/kg	<0.087	0.50	02/14/14 17:47	
Cadmium	mg/kg	<0.051	0.50	02/14/14 17:47	
Chromium	mg/kg	<0.13	0.50	02/14/14 17:47	
Iron	mg/kg	<2.7	10.0	02/14/14 17:47	
Lead	mg/kg	<0.29	1.0	02/14/14 17:47	
Manganese	mg/kg	0.033J	0.50	02/14/14 17:47	
Selenium	mg/kg	<0.59	2.0	02/14/14 17:47	
Silver	mg/kg	<0.21	1.0	02/14/14 17:47	

LABORATORY CONTROL SAMPLE: 931332

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	49.2	98	80-120	
Barium	mg/kg	50	49.9	100	80-120	
Cadmium	mg/kg	50	50.3	101	80-120	
Chromium	mg/kg	50	50.2	100	80-120	
Iron	mg/kg	500	479	96	80-120	
Lead	mg/kg	50	50.9	102	80-120	
Manganese	mg/kg	50	48.2	96	80-120	
Selenium	mg/kg	50	49.9	100	80-120	
Silver	mg/kg	25	25.1	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 931333 931334

Parameter	Units	4092026001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	12.4	55.3	55.5	70.0	65.4	104	95	75-125	7	20	
Barium	mg/kg	139	55.3	55.5	203	244	114	189	75-125	19	20	M0
Cadmium	mg/kg	0.48J	55.3	55.5	56.2	55.4	101	99	75-125	1	20	
Chromium	mg/kg	37.5	55.3	55.5	77.1	84.4	72	84	75-125	9	20	M0
Iron	mg/kg	17900	553	555	23500	19300	1010	252	75-125	20	20	P6
Lead	mg/kg	38.8	55.3	55.5	86.0	85.5	86	84	75-125	1	20	
Manganese	mg/kg	399	55.3	55.5	402	470	7	128	75-125	15	20	P6
Selenium	mg/kg	<0.66	55.3	55.5	54.0	52.3	98	94	75-125	3	20	
Silver	mg/kg	<0.24	27.7	27.8	28.3	28.0	102	100	75-125	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: C7799-WING III WINGRA
Pace Project No.: 4092070

QC Batch: MPRP/9859 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET TCLP
Associated Lab Samples: 4092070001, 4092070002, 4092070003, 4092070004, 4092070005, 4092070006, 4092070007

METHOD BLANK: 933198 Matrix: Water
Associated Lab Samples: 4092070001, 4092070002, 4092070003, 4092070004, 4092070005, 4092070006, 4092070007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	<0.0030	0.0075	02/24/14 11:14	

METHOD BLANK: 931972 Matrix: Solid
Associated Lab Samples: 4092070001, 4092070002, 4092070003, 4092070004, 4092070005, 4092070006, 4092070007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	<0.015	0.038	02/24/14 11:21	

METHOD BLANK: 932739 Matrix: Solid
Associated Lab Samples: 4092070001, 4092070002, 4092070003, 4092070004, 4092070005, 4092070006, 4092070007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	<0.015	0.038	02/24/14 11:17	

METHOD BLANK: 932740 Matrix: Solid
Associated Lab Samples: 4092070001, 4092070002, 4092070003, 4092070004, 4092070005, 4092070006, 4092070007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	0.017J	0.038	02/24/14 11:19	

LABORATORY CONTROL SAMPLE: 933199

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	.5	0.51	102	80-120	

MATRIX SPIKE SAMPLE: 933200

Parameter	Units	4092048001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	<0.015	2.5	2.5	99	75-125	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(920)469-2436

QUALITY CONTROL DATA

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

MATRIX SPIKE SAMPLE: 933201

Parameter	Units	4092225001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	0.025J	2.5	2.5	99	75-125	

MATRIX SPIKE SAMPLE: 933203

Parameter	Units	4092143001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	<0.015	2.5	2.6	103	75-125	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

QC Batch: MPRP/9862 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET TCLP
Associated Lab Samples: 4092070008, 4092070009, 4092070010

METHOD BLANK: 933612 Matrix: Water
Associated Lab Samples: 4092070008, 4092070009, 4092070010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	<0.0030	0.0075	02/24/14 12:09	

METHOD BLANK: 933175 Matrix: Solid
Associated Lab Samples: 4092070008, 4092070009, 4092070010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	<0.015	0.038	02/24/14 12:11	

METHOD BLANK: 933176 Matrix: Solid
Associated Lab Samples: 4092070008, 4092070009, 4092070010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	<0.015	0.038	02/24/14 12:14	

LABORATORY CONTROL SAMPLE: 933613

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	.5	0.51	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 933614 933615

Parameter	Units	4092070008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/L	<0.015	2.5	2.5	2.5	2.5	100	100	75-125	0	20	

MATRIX SPIKE SAMPLE: 933616

Parameter	Units	4092267002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	0.021J	2.5	2.6	101	75-125	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

QC Batch: OEXT/21331 Analysis Method: EPA 8082
QC Batch Method: EPA 3541 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 4092070001, 4092070002, 4092070003, 4092070004, 4092070005, 4092070006, 4092070007, 4092070008, 4092070009, 4092070010

METHOD BLANK: 931395 Matrix: Solid
Associated Lab Samples: 4092070001, 4092070002, 4092070003, 4092070004, 4092070005, 4092070006, 4092070007, 4092070008, 4092070009, 4092070010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	<0.025	0.050	02/17/14 14:25	
PCB-1221 (Aroclor 1221)	mg/kg	<0.025	0.050	02/17/14 14:25	
PCB-1232 (Aroclor 1232)	mg/kg	<0.025	0.050	02/17/14 14:25	
PCB-1242 (Aroclor 1242)	mg/kg	<0.025	0.050	02/17/14 14:25	
PCB-1248 (Aroclor 1248)	mg/kg	<0.025	0.050	02/17/14 14:25	
PCB-1254 (Aroclor 1254)	mg/kg	<0.025	0.050	02/17/14 14:25	
PCB-1260 (Aroclor 1260)	mg/kg	<0.025	0.050	02/17/14 14:25	
Decachlorobiphenyl (S)	%	96	48-130	02/17/14 14:25	
Tetrachloro-m-xylene (S)	%	76	40-130	02/17/14 14:25	

LABORATORY CONTROL SAMPLE: 931396

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg		<0.025			
PCB-1221 (Aroclor 1221)	mg/kg		<0.025			
PCB-1232 (Aroclor 1232)	mg/kg		<0.025			
PCB-1242 (Aroclor 1242)	mg/kg		<0.025			
PCB-1248 (Aroclor 1248)	mg/kg		<0.025			
PCB-1254 (Aroclor 1254)	mg/kg		<0.025			
PCB-1260 (Aroclor 1260)	mg/kg	.5	0.38	76	70-130	
Decachlorobiphenyl (S)	%			99	48-130	
Tetrachloro-m-xylene (S)	%			77	40-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 931397 931398

Parameter	Units	4092070002 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)	mg/kg	<0.031			<0.031	<0.031					31	
PCB-1221 (Aroclor 1221)	mg/kg	<0.031			<0.031	<0.031					31	
PCB-1232 (Aroclor 1232)	mg/kg	<0.031			<0.031	<0.031					31	
PCB-1242 (Aroclor 1242)	mg/kg	<0.031			<0.031	<0.031					31	
PCB-1248 (Aroclor 1248)	mg/kg	<0.031			<0.031	<0.031					31	
PCB-1254 (Aroclor 1254)	mg/kg	<0.031			<0.031	<0.031					31	
PCB-1260 (Aroclor 1260)	mg/kg	<0.031	.62	.62	0.40	0.39	65	63	40-149	2	31	
Decachlorobiphenyl (S)	%						83	82	48-130			
Tetrachloro-m-xylene (S)	%						71	68	40-130			

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

QC Batch: OEXT/21381 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 4092070001, 4092070002, 4092070003, 4092070004, 4092070005, 4092070006, 4092070007, 4092070008, 4092070009, 4092070010

METHOD BLANK: 932671 Matrix: Solid
Associated Lab Samples: 4092070001, 4092070002, 4092070003, 4092070004, 4092070005, 4092070006, 4092070007, 4092070008, 4092070009, 4092070010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	<0.0083	0.017	02/19/14 10:46	
2-Methylnaphthalene	mg/kg	<0.0083	0.017	02/19/14 10:46	
Acenaphthene	mg/kg	<0.0083	0.017	02/19/14 10:46	
Acenaphthylene	mg/kg	<0.0075	0.017	02/19/14 10:46	
Anthracene	mg/kg	<0.0086	0.017	02/19/14 10:46	
Benzo(a)anthracene	mg/kg	<0.0058	0.017	02/19/14 10:46	
Benzo(a)pyrene	mg/kg	<0.0060	0.017	02/19/14 10:46	
Benzo(b)fluoranthene	mg/kg	<0.0083	0.017	02/19/14 10:46	
Benzo(g,h,i)perylene	mg/kg	<0.0063	0.017	02/19/14 10:46	
Benzo(k)fluoranthene	mg/kg	<0.0092	0.017	02/19/14 10:46	
Chrysene	mg/kg	<0.0077	0.017	02/19/14 10:46	
Dibenz(a,h)anthracene	mg/kg	<0.0061	0.017	02/19/14 10:46	
Fluoranthene	mg/kg	<0.0083	0.017	02/19/14 10:46	
Fluorene	mg/kg	<0.0083	0.017	02/19/14 10:46	
Indeno(1,2,3-cd)pyrene	mg/kg	<0.0063	0.017	02/19/14 10:46	
Naphthalene	mg/kg	<0.0083	0.017	02/19/14 10:46	
Phenanthrene	mg/kg	<0.0083	0.017	02/19/14 10:46	
Pyrene	mg/kg	<0.0083	0.017	02/19/14 10:46	
2-Fluorobiphenyl (S)	%	65	40-130	02/19/14 10:46	
Terphenyl-d14 (S)	%	74	40-130	02/19/14 10:46	

LABORATORY CONTROL SAMPLE: 932672

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	.33	0.23	70	47-130	
2-Methylnaphthalene	mg/kg	.33	0.23	69	48-130	
Acenaphthene	mg/kg	.33	0.22	65	55-130	
Acenaphthylene	mg/kg	.33	0.21	64	55-130	
Anthracene	mg/kg	.33	0.24	71	66-130	
Benzo(a)anthracene	mg/kg	.33	0.23	69	55-130	
Benzo(a)pyrene	mg/kg	.33	0.24	71	56-130	
Benzo(b)fluoranthene	mg/kg	.33	0.26	77	53-130	
Benzo(g,h,i)perylene	mg/kg	.33	0.21	63	51-130	
Benzo(k)fluoranthene	mg/kg	.33	0.23	70	52-130	
Chrysene	mg/kg	.33	0.24	72	58-130	
Dibenz(a,h)anthracene	mg/kg	.33	0.18	55	55-130	
Fluoranthene	mg/kg	.33	0.24	72	62-130	
Fluorene	mg/kg	.33	0.22	67	58-130	
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.20	60	54-130	
Naphthalene	mg/kg	.33	0.22	65	41-130	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

LABORATORY CONTROL SAMPLE: 932672

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	mg/kg	.33	0.24	71	60-130	
Pyrene	mg/kg	.33	0.25	74	51-130	
2-Fluorobiphenyl (S)	%			58	40-130	
Terphenyl-d14 (S)	%			65	40-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 932673 932674

Parameter	Units	4092152003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	mg/kg	<9.6 ug/kg	.38	.38	0.27	0.29	71	75	42-130	6	32	
2-Methylnaphthalene	mg/kg	<9.6 ug/kg	.38	.38	0.27	0.27	70	72	34-130	2	35	
Acenaphthene	mg/kg	<9.6 ug/kg	.38	.38	0.26	0.26	67	69	31-130	2	35	
Acenaphthylene	mg/kg	<8.6 ug/kg	.38	.38	0.26	0.26	68	69	32-130	1	25	
Anthracene	mg/kg	<9.9 ug/kg	.38	.38	0.28	0.28	72	74	39-131	2	38	
Benzo(a)anthracene	mg/kg	<6.6 ug/kg	.38	.38	0.26	0.27	69	70	29-130	2	30	
Benzo(a)pyrene	mg/kg	<6.8 ug/kg	.38	.38	0.28	0.28	73	74	35-130	1	33	
Benzo(b)fluoranthene	mg/kg	<9.6 ug/kg	.38	.38	0.28	0.29	72	77	21-142	6	44	
Benzo(g,h,i)perylene	mg/kg	<7.3 ug/kg	.38	.38	0.28	0.29	74	75	12-134	2	33	
Benzo(k)fluoranthene	mg/kg	<10.6 ug/kg	.38	.38	0.28	0.28	74	72	35-130	3	37	
Chrysene	mg/kg	<8.8 ug/kg	.38	.38	0.27	0.27	70	71	37-130	2	38	
Dibenz(a,h)anthracene	mg/kg	<7.0 ug/kg	.38	.38	0.27	0.27	71	71	23-130	1	27	
Fluoranthene	mg/kg	<9.6 ug/kg	.38	.38	0.28	0.28	73	74	29-137	2	50	
Fluorene	mg/kg	<9.6 ug/kg	.38	.38	0.26	0.27	68	70	32-130	2	32	
Indeno(1,2,3-cd)pyrene	mg/kg	<7.3 ug/kg	.38	.38	0.28	0.28	72	73	17-134	1	28	
Naphthalene	mg/kg	<9.6 ug/kg	.38	.38	0.26	0.27	68	70	24-130	2	40	
Phenanthrene	mg/kg	<9.6 ug/kg	.38	.38	0.28	0.28	72	73	27-135	2	46	
Pyrene	mg/kg	<9.6 ug/kg	.38	.38	0.28	0.29	74	75	24-130	1	49	
2-Fluorobiphenyl (S)	%						60	60	40-130			
Terphenyl-d14 (S)	%						64	65	40-130			

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

QC Batch: PMST/9432 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 4092070001, 4092070002, 4092070003, 4092070004, 4092070005, 4092070006, 4092070007, 4092070008, 4092070009, 4092070010

SAMPLE DUPLICATE: 931238

Parameter	Units	4092059001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.6	7.5	1	10	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(920)469-2436

QUALITY CONTROL DATA

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

QC Batch: WETA/21935 Analysis Method: EPA 9060 Modified
QC Batch Method: EPA 9060 Modified Analysis Description: 9060 TOC Average
Associated Lab Samples: 4092070001, 4092070002, 4092070003, 4092070004, 4092070005, 4092070006, 4092070007, 4092070008, 4092070009, 4092070010

METHOD BLANK: 933089 Matrix: Solid
Associated Lab Samples: 4092070001, 4092070002, 4092070003, 4092070004, 4092070005, 4092070006, 4092070007, 4092070008, 4092070009, 4092070010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/kg	<31.1	250	02/20/14 09:27	

LABORATORY CONTROL SAMPLE: 933090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/kg	1000	1040	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 933091 933092

Parameter	Units	4092070001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mean Total Organic Carbon	mg/kg	54400	45000	45000	101000	95400	104	91	50-150	6	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 933093 933094

Parameter	Units	4092070002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mean Total Organic Carbon	mg/kg	1030	745	754	1660	1750	84	95	50-150	5	30	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

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.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: WETA/21935

[WB]	Results reported on dry weight basis per cited method.

Batch: WETA/21936

[WB]	Results reported on dry weight basis per cited method.

ANALYTE QUALIFIERS

1q	Analyte was detected in the associated leach blank at a concentration of 0.017 mg/L.
2q	Negative detection value obtained for Method Blank (-0.0034 mg/kg).
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4092070001	**B6-S1**	EPA 3541	OEXT/21331	EPA 8082	GCSV/10888
4092070002	**B6-S2**	EPA 3541	OEXT/21331	EPA 8082	GCSV/10888
4092070003	**B7-S1**	EPA 3541	OEXT/21331	EPA 8082	GCSV/10888
4092070004	**B7-S2**	EPA 3541	OEXT/21331	EPA 8082	GCSV/10888
4092070005	**B8-S1**	EPA 3541	OEXT/21331	EPA 8082	GCSV/10888
4092070006	**B8-S2**	EPA 3541	OEXT/21331	EPA 8082	GCSV/10888
4092070007	**B9-S1**	EPA 3541	OEXT/21331	EPA 8082	GCSV/10888
4092070008	**B9-S2**	EPA 3541	OEXT/21331	EPA 8082	GCSV/10888
4092070009	**B10-S1**	EPA 3541	OEXT/21331	EPA 8082	GCSV/10888
4092070010	**B10-S2**	EPA 3541	OEXT/21331	EPA 8082	GCSV/10888
4092070001	**B6-S1**	EPA 3050	MPRP/9841	EPA 6010	ICP/8655
4092070002	**B6-S2**	EPA 3050	MPRP/9841	EPA 6010	ICP/8655
4092070003	**B7-S1**	EPA 3050	MPRP/9841	EPA 6010	ICP/8655
4092070004	**B7-S2**	EPA 3050	MPRP/9841	EPA 6010	ICP/8655
4092070005	**B8-S1**	EPA 3050	MPRP/9841	EPA 6010	ICP/8655
4092070006	**B8-S2**	EPA 3050	MPRP/9841	EPA 6010	ICP/8655
4092070007	**B9-S1**	EPA 3050	MPRP/9841	EPA 6010	ICP/8655
4092070008	**B9-S2**	EPA 3050	MPRP/9841	EPA 6010	ICP/8655
4092070009	**B10-S1**	EPA 3050	MPRP/9841	EPA 6010	ICP/8655
4092070010	**B10-S2**	EPA 3050	MPRP/9841	EPA 6010	ICP/8655
4092070001	**B6-S1**	EPA 3010	MPRP/9859	EPA 6010	ICP/8673
4092070002	**B6-S2**	EPA 3010	MPRP/9859	EPA 6010	ICP/8673
4092070003	**B7-S1**	EPA 3010	MPRP/9859	EPA 6010	ICP/8673
4092070004	**B7-S2**	EPA 3010	MPRP/9859	EPA 6010	ICP/8673
4092070005	**B8-S1**	EPA 3010	MPRP/9859	EPA 6010	ICP/8673
4092070006	**B8-S2**	EPA 3010	MPRP/9859	EPA 6010	ICP/8673
4092070007	**B9-S1**	EPA 3010	MPRP/9859	EPA 6010	ICP/8673
4092070008	**B9-S2**	EPA 3010	MPRP/9862	EPA 6010	ICP/8675
4092070009	**B10-S1**	EPA 3010	MPRP/9862	EPA 6010	ICP/8675
4092070010	**B10-S2**	EPA 3010	MPRP/9862	EPA 6010	ICP/8675
4092070001	**B6-S1**	EPA 7471	MERP/4109	EPA 7471	MERC/5332
4092070002	**B6-S2**	EPA 7471	MERP/4109	EPA 7471	MERC/5332
4092070003	**B7-S1**	EPA 7471	MERP/4109	EPA 7471	MERC/5332
4092070004	**B7-S2**	EPA 7471	MERP/4109	EPA 7471	MERC/5332
4092070005	**B8-S1**	EPA 7471	MERP/4109	EPA 7471	MERC/5332
4092070006	**B8-S2**	EPA 7471	MERP/4109	EPA 7471	MERC/5332
4092070007	**B9-S1**	EPA 7471	MERP/4109	EPA 7471	MERC/5332
4092070008	**B9-S2**	EPA 7471	MERP/4109	EPA 7471	MERC/5332
4092070009	**B10-S1**	EPA 7471	MERP/4109	EPA 7471	MERC/5332
4092070010	**B10-S2**	EPA 7471	MERP/4109	EPA 7471	MERC/5332
4092070001	**B6-S1**	EPA 3546	OEXT/21381	EPA 8270 by SIM	MSSV/6496
4092070002	**B6-S2**	EPA 3546	OEXT/21381	EPA 8270 by SIM	MSSV/6496
4092070003	**B7-S1**	EPA 3546	OEXT/21381	EPA 8270 by SIM	MSSV/6496
4092070004	**B7-S2**	EPA 3546	OEXT/21381	EPA 8270 by SIM	MSSV/6496
4092070005	**B8-S1**	EPA 3546	OEXT/21381	EPA 8270 by SIM	MSSV/6496
4092070006	**B8-S2**	EPA 3546	OEXT/21381	EPA 8270 by SIM	MSSV/6496

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: C7799-WING III WINGRA
Pace Project No.: 4092070

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4092070007	**B9-S1**	EPA 3546	OEXT/21381	EPA 8270 by SIM	MSSV/6496
4092070008	**B9-S2**	EPA 3546	OEXT/21381	EPA 8270 by SIM	MSSV/6496
4092070009	**B10-S1**	EPA 3546	OEXT/21381	EPA 8270 by SIM	MSSV/6496
4092070010	**B10-S2**	EPA 3546	OEXT/21381	EPA 8270 by SIM	MSSV/6496
4092070001	**B6-S1**	ASTM D2974-87	PMST/9432		
4092070002	**B6-S2**	ASTM D2974-87	PMST/9432		
4092070003	**B7-S1**	ASTM D2974-87	PMST/9432		
4092070004	**B7-S2**	ASTM D2974-87	PMST/9432		
4092070005	**B8-S1**	ASTM D2974-87	PMST/9432		
4092070006	**B8-S2**	ASTM D2974-87	PMST/9432		
4092070007	**B9-S1**	ASTM D2974-87	PMST/9432		
4092070008	**B9-S2**	ASTM D2974-87	PMST/9432		
4092070009	**B10-S1**	ASTM D2974-87	PMST/9432		
4092070010	**B10-S2**	ASTM D2974-87	PMST/9432		
4092070001	**B6-S1**	EPA 9060 Modified	WETA/21935		
4092070001	**B6-S1**	EPA 9060 Modified	WETA/21936		
4092070002	**B6-S2**	EPA 9060 Modified	WETA/21935		
4092070002	**B6-S2**	EPA 9060 Modified	WETA/21936		
4092070003	**B7-S1**	EPA 9060 Modified	WETA/21935		
4092070003	**B7-S1**	EPA 9060 Modified	WETA/21936		
4092070004	**B7-S2**	EPA 9060 Modified	WETA/21935		
4092070004	**B7-S2**	EPA 9060 Modified	WETA/21936		
4092070005	**B8-S1**	EPA 9060 Modified	WETA/21935		
4092070005	**B8-S1**	EPA 9060 Modified	WETA/21936		
4092070006	**B8-S2**	EPA 9060 Modified	WETA/21935		
4092070006	**B8-S2**	EPA 9060 Modified	WETA/21936		
4092070007	**B9-S1**	EPA 9060 Modified	WETA/21935		
4092070007	**B9-S1**	EPA 9060 Modified	WETA/21936		
4092070008	**B9-S2**	EPA 9060 Modified	WETA/21935		
4092070008	**B9-S2**	EPA 9060 Modified	WETA/21936		
4092070009	**B10-S1**	EPA 9060 Modified	WETA/21935		
4092070009	**B10-S1**	EPA 9060 Modified	WETA/21936		
4092070010	**B10-S2**	EPA 9060 Modified	WETA/21935		
4092070010	**B10-S2**	EPA 9060 Modified	WETA/21936		

REPORT OF LABORATORY ANALYSIS

MN: 612-607-1700 WI: 920-469-2436

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

mH
4092070

Company Name:	IVERTECH LLC
Branch/Location:	MADISON
Project Contact:	DENNIS IVERSON
Phone:	608-273-3751
Project Number:	C 7799-WING III
Project Name:	WINGRA
Project State:	WI
Sampled By (Print):	ERIC FAIR
Sampled By (Sign):	Eric Fair
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 #:	MADISON
Mail To Contact:	DENNIS IVERSON
Mail To Company:	IVERTECH LLC
Mail To Address:	2880 JONATHAN CIRCLE MADISON, WI 53714
Invoice To Contact:	SAME
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, Sl = Sludge
W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

FILTERED? (YES/NO)
PRESERVATION (CODE)*

Analyses Requested

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	PCB	PAH	TOC	RCRA METALS	TOTAL FE	TOTAL MN	TCLP Pb	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	B6-S1	2/11/14	7:30A	S	X	X	X	X	X	X	X			
002	B6-S2	↓	7:45A	↓	X	X	X	X	X	X	X		3-4oz ag^A, 1-4oz p^A	
003	B7-S1	↓	8:15A	↓	X	X	X	X	X	X	X		↓	↓
004	B7-S2	↓	8:30A	↓	X	X	X	X	X	X	X		↓	↓
005	B8-S1	↓	9:00A	↓	X	X	X	X	X	X	X		↓	↓
006	B8-S2	↓	9:15A	↓	X	X	X	X	X	X	X		↓	↓
007	B9-S1	↓	9:45A	↓	X	X	X	X	X	X	X		↓	↓
008	B9-S2	↓	10:00A	↓	X	X	X	X	X	X	X		↓	↓
009	B10-S1	↓	10:30A	↓	X	X	X	X	X	X	X		↓	↓
010	B10-S2	↓	10:45A	↓	X	X	X	X	X	X	X		↓	↓

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed: NORMAL

Transmit Prelim Rush Results by (complete what you want):

Email #1:	DLIVERSON@CHARTER.NET
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Dennis Iverson	2/11/14 5PM		
Walker	2-13-14 0840	Susan Kuhl Pace	2-13-14 0840

PACE Project No. 4092070

Receipt Temp = ROT °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Project # **WO# : 4092070**

4092070

Client Name: Ivertech

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: Waldco

Tracking #: 500131-1

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 N/A **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Person examining contents:
Date: 2-13-14
Initials: SM

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.
Sample Labels match COC:	☐Yes ☒No ☐N/A	12. 005 - ID Match only
-Includes date/time/ID/Analysis Matrix: S		
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 / 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 Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: MAT for DM **Date:** 2.13.14

SECTION E: BIDDERS ACKNOWLEDGEMENT

WINGRA CREEK PARKWAY, PHASE 3
CONTRACT NO. 6832

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 - 2014 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

WINGRA CREEK PARKWAY, PHASE 3
CONTRACT NO. 6832

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)

WINGRA CREEK PARKWAY, PHASE 3
CONTRACT NO. 6832

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

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 _____ (a corporation of the State of _____) (individual), (partnership), hereinafter referred to as the "Principal") and _____, a corporation of the State of _____ (hereinafter referred to as the "Surety") and licensed to do business in the State of Wisconsin, 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:

WINGRA CREEK PARKWAY, PHASE 3
CONTRACT NO. 6832

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	Date
By:	
Name of Surety	
By:	
	Date

This certifies that I have been duly licensed as an agent for the above company in Wisconsin under License 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 Fourteen 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:

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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.

Evidence of Compliance by Agent and Subcontractor. Each agent and subcontractor shall file with the Contractor, upon completion of their portion of the work on the contract an affidavit stating that all the provisions of Sec. 66.0903(3), Wis. Stats., have been fully complied with and 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 shall be kept and the name, address and telephone number of the person who shall 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.

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.)

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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:

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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 License No. _____ for the year 20_____, 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

PREVAILING WAGE RATE DETERMINATION
Issued by the State of Wisconsin
Department of Workforce Development
Pursuant to s. 66.0903, Wis. Stats.
Issued On: 01/06/2014
Amended On: 02/28/2014

DETERMINATION NUMBER:	201400001
EXPIRATION DATE:	Prime Contracts MUST Be Awarded or Negotiated On Or Before 12/31/2014. If NOT, You MUST Reapply.
PROJECT NAME:	ALL PUBLIC WORKS PROJECTS UNDER SEC 66.0903, STATS - CITY OF MADISON
PROJECT LOCATION:	MADISON CITY, DANE COUNTY, WI
CONTRACTING AGENCY:	CITY OF MADISON-ENGINEERING

CLASSIFICATION:	Contractors are responsible for correctly classifying their workers. Either call the Department of Workforce Development (DWD) with trade or classification questions or consult DWD's Dictionary of Occupational Classifications & Work Descriptions on the DWD website at: dwd.wisconsin.gov/er/prevailing_wage_rate/Dictionary/dictionary_main.htm.
OVERTIME:	Time and one-half must be paid for all hours worked: - over 10 hours per day on prevailing wage projects - over 40 hours per calendar week - Saturday and Sunday - on all of the following holidays: January 1; the last Monday in May; July 4; the 1st Monday in September; the 4th Thursday in November; December 25; - The day before if January 1, July 4 or December 25 falls on a Saturday; - The day following if January 1, July 4 or December 25 falls on a Sunday. Apply the time and one-half overtime calculation to whichever is higher between the Hourly Basic Rate listed on this project determination or the employee's regular hourly rate of pay. Add any applicable Premium or DOT Premium to the Hourly Basic Rate before calculating overtime. A DOT Premium (discussed below) may supersede this time and one-half requirement.
FUTURE INCREASE:	When a specific trade or occupation requires a future increase, you MUST add the full hourly increase to the "TOTAL" on the effective date(s) indicated for the specific trade or occupation.
PREMIUM PAY:	If indicated for a specific trade or occupation, the full amount of such pay MUST be added to the "HOURLY BASIC RATE OF PAY" indicated for such trade or occupation, whevenever such pay is applicable.
DOT PREMIUM:	This premium only applies to highway and bridge projects owned by the Wisconsin Department of Transportation and to the project type heading "Airport Pavement or State Highway Construction." DO NOT apply the premium calculation under any other project type on this determination.
APPRENTICES:	Pay apprentices a percentage of the applicable journeyperson's hourly basic rate of pay and hourly fringe benefit contributions specified in this determination. Obtain the appropriate percentage from each apprentice's contract or indenture.
SUBJOURNEY:	Subjourney wage rates may be available for some of the trades or occupations indicated below with the exception of laborers, truck drivers and heavy equipment operators. Any employer interested in using a subjourney classification on this project MUST complete Form ERD-10880 and request the applicable wage rate from the Department of Workforce Development PRIOR to using the subjourney worker on this project.

This document **MUST BE POSTED** by the **CONTRACTING AGENCY** in at least one conspicuous and easily accessible place **on the site of the project** . A local governmental unit may post this document at the place normally used to post public notices if there is no common site on the project. This document **MUST** remain posted during the entire time any worker is employed on the project and **MUST** be physically incorporated into the specifications and all contracts and subcontracts. If you have any questions, please write to the Equal Rights Division, Labor Standards Bureau, P.O. Box 8928, Madison, Wisconsin 53708 or call (608) 266-6861.

The following statutory provisions apply to local governmental unit projects of public works and are set forth below pursuant to the requirements of s. 66.0903(8), Stats.

s. 66.0903 (1) (f) & s. 103.49 (1) (c) "PREVAILING HOURS OF LABOR" for any trade or occupation in any area means 10 hours per day and 40 hours per week and may not include any hours worked on a Saturday or Sunday or on any of the following holidays:

1. January 1.
2. The last Monday in May.
3. July 4.
4. The first Monday in September.
5. The 4th Thursday in November.
6. December 25.
7. The day before if January 1, July 4 or December 25 falls on a Saturday.
8. The day following if January 1, July 4 or December 25 falls on a Sunday.

s. 66.0903 (10) RECORDS; INSPECTION; ENFORCEMENT.
(a) Each contractor, subcontractor, or contractor's or subcontractor's agent performing work on a project of public works that is subject to this section shall keep full and accurate records clearly indicating the name and trade or occupation of every person performing the work described in sub. (4) and an accurate record of the number of hours worked by each of those persons and the actual wages paid for the hours worked.

s. 66.0903 (11) LIABILITY AND PENALTIES.
(a) 1. Any contractor, subcontractor, or contractor's or subcontractor's agent who fails to pay the prevailing wage rate determined by the department under sub. (3) or who pays less than 1.5 times the hourly basic rate of pay for all hours worked in excess of the prevailing hours of labor is liable to any affected employee in the amount of his or her unpaid wages or his or her unpaid overtime compensation and in an additional amount as liquidated damages as provided under subd. 2., 3., whichever is applicable.
2. If the department determines upon inspection under sub. (10) (b) or (c) that a contractor, subcontractor, or contractor's or subcontractor's agent has failed to pay the prevailing wage rate determined by the department under sub. (3) or has paid less than 1.5 times the hourly basic rate of pay for all hours worked in excess of the prevailing hours of labor, the department shall order the contractor to pay to any affected employee the amount of his or her unpaid wages or his or her unpaid overtime compensation and an additional amount equal to 100 percent of the amount of those unpaid wages or that unpaid overtime compensation as liquidated damages within a period specified by the department in the order.
3. In addition to or in lieu of recovering the liability specified in subd. 1. as provided in subd. 2., any employee for and in behalf of that employee and other employees similarly situated may commence an action to recover that liability in any court of competent jurisdiction. If the court finds that a contractor, subcontractor, or contractor's or subcontractor's agent has failed to pay the prevailing wage rate determined by the department under sub. (3) or has paid less than 1.5 times the hourly basic rate of pay for all hours worked in excess of the prevailing hours of labor, the court shall order the contractor, subcontractor, or agent to pay to any affected employee the amount of his or her unpaid wages or his or her unpaid overtime compensation and an additional amount equal to 100 percent of the amount of those unpaid wages or that unpaid overtime compensation as liquidated damages.
5. No employee may be a party plaintiff to an action under subd. 3. unless the employee consents in writing to become a party and the consent is filed in the court in which the action is brought. Notwithstanding s. 814.04 (1), the court shall, in addition to any judgment awarded to the plaintiff, allow reasonable attorney fees and costs to be paid by the defendant.

BUILDING OR HEAVY CONSTRUCTION

Includes sheltered enclosures with walk-in access for the purpose of housing persons, employees, machinery, equipment or supplies and non-sheltered work such as canals, dams, dikes, reservoirs, storage tanks, etc. A sheltered enclosure need not be "habitable" in order to be considered a building. The installation of machinery and/or equipment, both above and below grade level, does not change a project's character as a building. On-site grading, utility work and landscaping are included within this definition. Residential buildings of four (4) stories or less, agricultural buildings, parking lots and driveways are NOT included within this definition.

SKILLED TRADES

Fringe Benefits Must Be Paid On All Hours Worked

CODE	TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
101	Acoustic Ceiling Tile Installer	30.48	15.90	46.38
102	Boilermaker Future Increase(s): Add $1.50/hr on 1/01/2015; Add $1.50/hr. on 01/01/2016	32.05	28.04	60.09
103	Bricklayer, Blocklayer or Stonemason Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	32.01	17.35	49.36
104	Cabinet Installer	30.48	15.90	46.38
105	Carpenter	30.48	15.90	46.38
106	Carpet Layer or Soft Floor Coverer	30.48	15.90	46.38
107	Cement Finisher	31.58	16.13	47.71
108	Drywall Taper or Finisher	24.80	16.60	41.40
109	Electrician Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	34.07	19.25	53.32
110	Elevator Constructor	42.86	23.84	66.70
111	Fence Erector	24.72	0.00	24.72
112	Fire Sprinkler Fitter	36.07	18.73	54.80
113	Glazier	38.03	13.42	51.45
114	Heat or Frost Insulator	33.68	24.31	57.99
115	Insulator (Batt or Blown)	15.00	9.50	24.50
116	Ironworker	31.25	19.46	50.71
117	Lather	30.48	15.90	46.38

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
118	Line Constructor (Electrical)	38.25	17.31	55.56
119	Marble Finisher	26.89	19.18	46.07
120	Marble Mason	32.01	17.35	49.36
121	Metal Building Erector	22.00	10.00	32.00
122	Millwright	32.11	15.95	48.06
123	Overhead Door Installer	20.95	4.94	25.89
124	Painter	24.50	16.60	41.10
125	Pavement Marking Operator	30.00	0.00	30.00
126	Piledriver	30.98	15.90	46.88
127	Pipeline Fuser or Welder (Gas or Utility)	30.79	19.74	50.53
129	Plasterer	31.03	17.71	48.74
130	Plumber Future Increase(s): Add $1/hr on 6/1/2014.	36.42	16.87	53.29
132	Refrigeration Mechanic	41.60	16.71	58.31
133	Roofer or Waterproofer	29.40	6.25	35.65
134	Sheet Metal Worker	34.45	22.57	57.02
135	Steamfitter Future Increase(s): Add $1.70/hr on 6/1/2014.	42.95	17.81	60.76
137	Teledata Technician or Installer Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year’s Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	22.25	12.24	34.49
138	Temperature Control Installer	32.94	18.80	51.74
139	Terrazzo Finisher	26.89	19.18	46.07
140	Terrazzo Mechanic	30.20	18.42	48.62
141	Tile Finisher	23.85	17.18	41.03
142	Tile Setter	29.81	17.18	46.99
143	Tuckpointer, Caulker or Cleaner	35.25	13.15	48.40
144	Underwater Diver (Except on Great Lakes)	34.48	15.90	50.38
146	Well Driller or Pump Installer	25.32	15.65	40.97
147	Siding Installer	25.92	18.04	43.96

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	29.16	14.34	43.50
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	30.60	14.86	45.46
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	26.78	13.63	40.41
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	24.86	12.97	37.83
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	12.70	34.45

TRUCK DRIVERS

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
201	Single Axle or Two Axle	32.39	18.46	50.85
203	Three or More Axle	18.00	22.88	40.88
204	Articulated, Euclid, Dumptor, Off Road Material Hauler	32.89	18.96	51.85
205	Pavement Marking Vehicle	18.00	22.88	40.88
207	Truck Mechanic	18.00	22.88	40.88

LABORERS

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
301	General Laborer Premium Increase(s): Add $1.00/hr for certified welder; Add $.25/hr for mason tender	24.21	14.63	38.84
302	Asbestos Abatement Worker	24.36	14.44	38.80
303	Landscaper	21.01	9.37	30.38
310	Gas or Utility Pipeline Laborer (Other Than Sewer and Water)	21.01	13.63	34.64
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased) Premium Increase(s): DOT PREMIUMS: Pay two times the hourly basic rate on New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	18.33	13.65	31.98
314	Railroad Track Laborer	23.46	3.30	26.76
315	Final Construction Clean-Up Worker	16.00	0.00	16.00

HEAVY EQUIPMENT OPERATORS
SITE PREPARATION, UTILITY OR LANDSCAPING WORK ONLY

Fringe Benefits Must Be Paid On All Hours Worked

CODE	TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
501	Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Asphalt Milling Machine; Boring Machine (Directional, Horizontal or Vertical); Backhoe (Track Type) Having a Mfgr's Rated Capacity of 130,000 Lbs. or Over; Backhoe (Track Type) Having a Mfgr's Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Bulldozer or Endloader (Over 40 hp); Compactor (Self-Propelled 85 Ft Total Drum Width & Over, or Tractor Mounted, Towed & Light Equipment); Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Crane, Shovel, Dragline, Clamshells; Forklift (Machinery Moving or Steel Erection, 25 Ft & Over); Gradall (Cruz-Aire Type); Grader or Motor Patrol; Master Mechanic; Mechanic or Welder; Robotic Tool Carrier (With or Without Attachments); Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Tractor or Truck Mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane (10 Tons or Under); Tractor (Scraper, Dozer, Pusher, Loader); Trencher (Wheel Type or Chain Type Having Over 8 Inch Bucket).	33.42	18.96	52.38
502	Backfiller; Broom or Sweeper; Bulldozer or Endloader (Under 40 hp); Environmental Burner; Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Jeep Digger; Screed (Milling Machine); Skid Rig; Straddle Carrier or Travel Lift; Stump Chipper; Trencher (Wheel Type or Chain Type Having 8 Inch Bucket & Under).	32.89	18.96	51.85
503	Air Compressor (&/or 400 CFM or Over); Augers (Vertical & Horizontal); Compactor (Self-Propelled 84 Ft Total Drum Width & Under, or Tractor Mounted, Towed & Light Equipment); Crusher, Screening or Wash Plant; Farm or Industrial Type Tractor; Forklift; Generator (&/or 150 KW or Over); Greaser; High Pressure Utility Locating Machine (Daylighting Machine); Mulcher; Oiler; Post Hole Digger or Driver; Pump (3 Inch or Over) or Well Points; Refrigeration Plant or Freeze Machine; Rock, Stone Breaker; Skid Steer Loader (With or Without Attachments); Vibratory Hammer or Extractor, Power Pack.	30.82	18.96	49.78
504	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	38.80	20.17	58.97
505	Work Performed on the Great Lakes Including Crane or Backhoe Operator; Assistant Hydraulic Dredge Engineer; Hydraulic Dredge Leverman or Diver's Tender; Mechanic or Welder; 70 Ton & Over Tug Operator. Premium Increase(s): Add $.50/hr for Friction Crane, Lattice Boom or Crane Certification (CCO).	41.65	21.71	63.36
506	Work Performed on the Great Lakes Including Deck Equipment Operator or Machineryman (Maintains Cranes Over 50 Tons or Backhoes 115,000 Lbs. or More); Tug, Launch or Loader, Dozer or Like Equipment When Operated on a Barge, Breakwater Wall, Slip, Dock or Scow, Deck Machinery.	37.10	21.57	58.67

507	Work Performed on the Great Lakes Including Deck Equipment Operator, Machineryman or Fireman (Operates 4 Units or More or Maintains Cranes 50 Tons or Under or Backhoes 115,000 Lbs. or Under); Deck Hand, Deck Engineer or Assistant Tug Operator; Off Road Trucks - Great Lakes ONLY.	34.50	20.04	54.54

HEAVY EQUIPMENT OPERATORS
EXCLUDING SITE PREPARATION, UTILITY, PAVING LANDSCAPING WORK

Fringe Benefits Must Be Paid On All Hours Worked

CODE	TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
508	Boring Machine (Directional); Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self-Erecting Tower Crane With a Lifting Capacity of Over 4,000 Lbs., Crane With Boom Dollies; Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 176 Ft or Over; Master Mechanic. Premium Increase(s): Add $.50/hr for >200 Ton / Add $1/hr at 300 Ton / Add $1.50/hr at 400 Ton / Add $2/hr at 500 Ton & Over.	35.62	18.96	54.58
509	Backhoe (Track Type) Having a Mfgr's Rated Capacity of 130,000 Lbs. or Over; Boring Machine (Horizontal or Vertical); Caisson Rig; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With A Lifting Capacity Of 4,000 Lbs. & Under; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Pile Driver; Versi Lifts, Tri-Lifts & Gantrys (20,000 Lbs. & Over).	36.35	6.95	43.30
510	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump (Over 46 Meter), Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Concrete Spreader & Distributor; Dredge (NOT Performing Work on the Great Lakes); Forklift (Machinery Moving or Steel Erection, 25 Ft & Over); Gradall (Cruz-Aire Type); Hydro-Blaster (10,000 PSI or Over); Milling Machine; Skid Rig; Traveling Crane (Bridge Type).	33.42	18.96	52.38
511	Air, Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Bulldozer or Endloader (Over 40 hp); Compactor (Self-Propelled 85 Ft Total Drum Width & Over, or Tractor Mounted, Towed & Light Equipment); Concrete Pump (46 Meter & Under), Concrete Conveyor (Rotec or Bidwell Type); Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Environmental Burner; Gantrys (Under 20,000 Lbs.); Grader or Motor Patrol; High Pressure Utility Locating Machine (Daylighting Machine); Manhoist; Material or Stack Hoist; Mechanic or Welder; Railroad Track Rail Leveling Machine, Tie Placer, Extractor, Tamper, Stone Leveler or Rehabilitation Equipment; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yd or More Capacity; Screed (Milling Machine); Sideboom; Straddle Carrier or Travel Lift; Tining or Curing Machine; Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane (10 Tons or Under); Trencher (Wheel Type or Chain Type Having Over 8-Inch Bucket).	32.89	18.96	51.85

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
512	Backfiller; Broom or Sweeper; Bulldozer or Endloader (Under 40 hp); Compactor (Self-Propelled 84 Ft Total Drum Width & Under, or Tractor Mounted, Towed & Light Equipment); Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Conveyor System; Concrete Finishing Machine (Road Type); Fireman (Pile Driver & Derrick NOT Performing Work on the Great Lakes); Grout Pump; Hoist (Tugger, Automatic); Industrial Locomotives; Jeep Digger; Lift Slab Machine; Mulcher; Roller (Rubber Tire, 5 Ton or Under); Screw or Gypsum Pumps; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Stump Chipper; Trencher (Wheel Type or Chain Type Having 8-Inch Bucket & Under); Winches & A-Frames.	30.82	18.96	49.78
513	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Boatmen (NOT Performing Work on the Great Lakes); Boiler (Temporary Heat); Crusher, Screening or Wash Plant; Elevator; Farm or Industrial Type Tractor; Fireman (Asphalt Plant NOT Performing Work on the Great Lakes); Forklift; Generator (&/or 150 KW or Over); Greaser; Heaters (Mechanical); Loading Machine (Conveyor); Oiler; Post Hole Digger or Driver; Prestress Machine; Pump (3 Inch or Over) or Well Points; Refrigeration Plant or Freeze Machine; Robotic Tool Carrier (With or Without Attachments); Rock, Stone Breaker; Skid Steer Loader (With or Without Attachments); Vibratory Hammer or Extractor, Power Pack.	24.19	17.89	42.08
514	Gas or Utility Pipeline, Except Sewer & Water (Primary Equipment).	36.34	21.14	57.48
515	Gas or Utility Pipeline, Except Sewer & Water (Secondary Equipment). Future Increase(s): Add $1.60/hr on 06/01/2014; Add $1.65/hr on 06/01/2015.	32.32	18.55	50.87
516	Fiber Optic Cable Equipment Future Increase(s): Add $1.75/hr on 02/01/2014.	27.89	17.20	45.09

SEWER, WATER OR TUNNEL CONSTRUCTION

Includes those projects that primarily involve public sewer or water distribution, transmission or collection systems and related tunnel work (excluding buildings).

SKILLED TRADES

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
103	Bricklayer, Blocklayer or Stonemason Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	35.10	18.40	53.50
105	Carpenter Future Increase(s): Add $1.25/hr on 6/2/2014. Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	33.68	19.81	53.49
107	Cement Finisher Future Increase(s): Add $1.87 on 6/1/14; Add $1.87 on 6/1/15; Add $1.75 on 6/1/16. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add $1.40/hr when the Wisconsin Department of Transportation or responsible governing agency requires that work be performed at night under artificial illumination with traffic control and the work is completed after sunset and before sunrise.	33.51	16.13	49.64
109	Electrician Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	32.82	22.61	55.43
111	Fence Erector	24.72	0.00	24.72
116	Ironworker	31.25	19.46	50.71
118	Line Constructor (Electrical)	38.25	17.31	55.56
125	Pavement Marking Operator	16.00	7.35	23.35
126	Piledriver	30.98	15.90	46.88
130	Plumber	33.75	14.07	47.82
135	Steamfitter	42.45	16.71	59.16
137	Teledata Technician or Installer	21.89	11.85	33.74

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
143	Tuckpointer, Caulker or Cleaner	35.25	13.15	48.40
144	Underwater Diver (Except on Great Lakes)	38.80	20.17	58.97
146	Well Driller or Pump Installer	25.32	15.65	40.97
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	29.16	14.34	43.50
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	30.60	14.86	45.46
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	26.78	13.63	40.41
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	24.86	12.97	37.83
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	12.70	34.45

TRUCK DRIVERS

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
201	Single Axle or Two Axle	30.00	15.00	45.00
203	Three or More Axle	16.00	7.35	23.35
204	Articulated, Euclid, Dumptor, Off Road Material Hauler	32.89	18.96	51.85
205	Pavement Marking Vehicle	16.00	7.35	23.35
207	Truck Mechanic	16.00	7.35	23.35

LABORERS

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
301	General Laborer Premium Increase(s): Add $.20 for blaster, bracer, manhole builder, caulker, bottomman and power tool; Add $.55 for pipelayer; Add $1.00 for tunnel work 0-15 lbs. compressed air; Add $2.00 for over 15-30 lbs. compressed air; Add $3.00 for over 30 lbs. compressed air.	25.60	14.62	40.22
303	Landscaper	25.28	11.46	36.74
304	Flagperson or Traffic Control Person	24.70	10.72	35.42
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	18.31	12.67	30.98
314	Railroad Track Laborer	23.46	3.30	26.76

HEAVY EQUIPMENT OPERATORS
SEWER, WATER OR TUNNEL WORK

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
521	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 176 Ft or Over; Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self-Erecting Tower Crane With a Lifting Capacity Of Over 4,000 Lbs., Crane With Boom Dollies; Master Mechanic; Pile Driver. Premium Increase(s): Add $.25/hr for all >45 Ton lifting capacity cranes	34.62	18.96	53.58
522	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Boring Machine (Directional); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump (Over 46 Meter), Concrete Conveyor (Rotec or Bidwell Type); Concrete Spreader & Distributor; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With a Lifting Capacity of 4,000 Lbs. & Under; Dredge (NOT Performing Work on the Great Lakes); Milling Machine; Skid Rig; Telehandler; Traveling Crane (Bridge Type).	33.42	18.96	52.38
523	Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Boring Machine (Horizontal or Vertical); Bulldozer or Endloader (Over 40 hp); Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Concrete Pump (46 Meter & Under), Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Gradall (Cruz-Aire Type); Grader or Motor Patrol; Hydro-Blaster (10,000 PSI or Over); Manhoist; Material or Stack Hoist; Mechanic or Welder; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yd or More Capacity; Screed (Milling Machine); Sideboom; Straddle Carrier or Travel Lift; Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane (10 Tons or Under); Trencher (Wheel Type or Chain Type Having Over 8-Inch Bucket).	32.89	18.96	51.85

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
524	Backfiller; Broom or Sweeper; Bulldozer or Endloader (Under 40 hp); Compactor (Self-Propelled 85 Ft Total Drum Width & Over, or Tractor Mounted, Towed & Light Equipment); Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Conveyor System; Concrete Finishing Machine (Road Type); Environmental Burner; Fireman (Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Hoist (Tugger, Automatic); Grout Pump; Jeep Digger; Lift Slab Machine; Mulcher; Power Subgrader; Pump (3 Inch or Over) or Well Points; Robotic Tool Carrier (With or Without Attachments); Roller (Rubber Tire, 5 Ton or Under); Screw or Gypsum Pumps; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Stump Chipper; Tining or Curing Machine; Trencher (Wheel Type or Chain Type Having 8-Inch Bucket & Under); Winches & A-Frames. Future Increase(s): Add $1.05/hr on 6/2/2014; Add $1.55/hr on 6/1/2015. Premium Increase(s): Add $.25/hr for operating tower crane.	35.11	19.45	54.56
525	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Compactor (Self-Propelled 84 Ft Total Drum Width & Under, or Tractor Mounted, Towed & Light Equipment); Crusher, Screening or Wash Plant; Farm or Industrial Type Tractor; Fireman (Asphalt Plant NOT Performing Work on the Great Lakes); Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Loading Machine (Conveyor); Post Hole Digger or Driver; Refrigeration Plant or Freeze Machine; Rock, Stone Breaker; Skid Steer Loader (With or Without Attachments); Vibratory Hammer or Extractor, Power Pack.	30.19	20.94	51.13
526	Boiler (Temporary Heat); Forklift; Greaser; Oiler.	24.19	17.89	42.08
527	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	38.80	20.17	58.97
528	Work Performed on the Great Lakes Including 70 Ton & Over Tug Operator; Assistant Hydraulic Dredge Engineer; Crane or Backhoe Operator; Hydraulic Dredge Leverman or Diver's Tender; Mechanic or Welder.	38.80	20.17	58.97
529	Work Performed on the Great Lakes Including Deck Equipment Operator or Machineryman (Maintains Cranes Over 50 Tons or Backhoes 115,000 Lbs. or More); Tug, Launch or Loader, Dozer or Like Equipment When Operated on a Barge, Breakwater Wall, Slip, Dock or Scow, Deck Machinery.	34.50	20.04	54.54
530	Work Performed on the Great Lakes Including Deck Equipment Operator; Machineryman or Fireman (Operates 4 Units or More or Maintains Cranes 50 Tons or Under or Backhoes 115,000 Lbs. or Under), Deck Hand, Deck Engineer or Assistant Tug Operator; Off Road Trucks - Great Lakes ONLY.	34.50	20.04	54.54

AIRPORT PAVEMENT OR STATE HIGHWAY CONSTRUCTION

Includes all airport projects (excluding buildings) and all projects awarded by the Wisconsin Department of Transportation (excluding buildings).

SKILLED TRADES

Fringe Benefits Must Be Paid On All Hours Worked

CODE	TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
103	Bricklayer, Blocklayer or Stonemason	32.01	17.35	49.36
105	Carpenter	30.48	15.90	46.38
107	Cement Finisher Future Increase(s): Add $1.87 on 6/1/14; Add $1.87 on 6/1/15; Add $1.75 on 6/1/16. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add $1.40/hr when the Wisconsin Department of Transportation or responsible governing agency requires that work be performed at night under artificial illumination with traffic control and the work is completed after sunset and before sunrise.	33.51	16.13	49.64
109	Electrician Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year’s Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	34.07	19.25	53.32
111	Fence Erector	24.72	0.00	24.72
116	Ironworker	31.25	19.46	50.71
118	Line Constructor (Electrical)	38.25	17.31	55.56
124	Painter	21.87	11.37	33.24
125	Pavement Marking Operator	30.00	0.00	30.00
126	Piledriver	30.98	15.90	46.88
133	Roofer or Waterproofer	29.40	6.25	35.65
137	Teledata Technician or Installer	21.89	11.85	33.74
143	Tuckpointer, Caulker or Cleaner	35.25	13.15	48.40
144	Underwater Diver (Except on Great Lakes)	34.48	15.90	50.38
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	34.43	15.24	49.67
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	35.50	15.89	51.39

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	26.78	13.63	40.41
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	24.86	12.97	37.83
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	12.70	34.45

TRUCK DRIVERS

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
201	Single Axle or Two Axle	34.22	19.90	54.12
203	Three or More Axle Future Increase(s): Add $1.30/hr on 6/1/2014. Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	24.52	17.77	42.29
204	Articulated, Euclid, Dumptor, Off Road Material Hauler Future Increase(s): Add $1.75/hr on 6/1/14); Add $1.25/hr on 6/1/15); Add $1.30/hr on 6/1/16); Add $1.25/hr on 6/1/17. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add $1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm.	29.27	20.40	49.67
205	Pavement Marking Vehicle	23.31	17.13	40.44
206	Shadow or Pilot Vehicle	34.22	19.90	54.12
207	Truck Mechanic	23.31	17.13	40.44

LABORERS

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
301	General Laborer Future Increase(s): Add $1.60/hr on 6/1/2014. Premium Increase(s): Add $.10/hr for topman, air tool operator, vibrator or tamper operator (mechanical hand operated), chain saw operator and demolition burning torch laborer; Add $.15/hr for bituminous worker (raker and luteman), formsetter (curb, sidewalk and pavement) and strike off man; Add $.20/hr for blaster and powderman; Add $.25/hr for bottomman; Add $.35/hr for line and grade specialist; Add $.45/hr for pipelayer. / DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add $1.25/hr for work on projects involving temporary traffic control setup, for lane and shoulder closures, when work under artificial illumination conditions is necessary as required by the project provisions (including prep time prior to and/or cleanup after such time period).	29.32	14.63	43.95
302	Asbestos Abatement Worker	24.36	14.44	38.80
303	Landscaper Future Increase(s): Add $1.60/hr on 6/1/14. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add $1.25/hr for work on projects involving temporary traffic control setup, for lane and shoulder closures, when work under artificial illumination conditions is necessary as required by the project provisions (including prep time prior to and/or cleanup after such time period).	29.32	14.63	43.95
304	Flagperson or Traffic Control Person Future Increase(s): Add $1.60/hr on 6/1/2014. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year’s Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add $1.25/hr when the Wisconsin Department of Transportation or responsible governing agency requires that work be performed at night under artificial illumination with traffic control and the work is completed after sunset and before sunrise.	25.67	14.63	40.30
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	18.31	12.67	30.98
314	Railroad Track Laborer	23.46	3.30	26.76

HEAVY EQUIPMENT OPERATORS
AIRPORT PAVEMENT OR STATE HIGHWAY CONSTRUCTION

Fringe Benefits Must Be Paid On All Hours Worked

CODE	TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
531	Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 176 Ft or Over; Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self-Erecting Tower Crane With a Lifting Capacity Of Over 4,000 Lbs., Crane With Boom Dollies; Traveling Crane (Bridge Type). Future Increase(s): Add $1.75/hr on 6/1/2014); Add $1.25/hr on 6/1/2015); Add $1.30/hr on 6/1/2016); Add $1.25/hr on 6/1/2017. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add $1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm.	36.72	20.40	57.12
532	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With A Lifting Capacity Of 4,000 Lbs., & Under; Dredge (NOT Performing Work on the Great Lakes); Licensed Boat Pilot (NOT Performing Work on the Great Lakes); Pile Driver. Future Increase(s): Add $1.75/hr on 6/1/2014); Add $1.25/hr on 6/1/2015); Add $1.30/hr on 6/1/2016); Add $1.25/hr on 6/1/2017. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add $1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm.	36.22	20.40	56.62

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
533	Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Asphalt Heater, Planer & Scarifier; Asphalt Milling Machine; Asphalt Screed; Automatic Subgrader (Concrete); Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Bituminous (Asphalt) Plant & Paver, Screed; Boatmen (NOT Performing Work on the Great Lakes); Boring Machine (Directional, Horizontal or Vertical); Bridge (Bidwell) Paver; Bulldozer or Endloader; Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, VIbratory/Sonic, Manual or Remote); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Conveyor System; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump, Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Concrete Spreader & Distributor; Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Crane WIth a Lifting Capacity of 25 Tons or Under; Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Gradall (Cruz-Aire Type); Grader or Motor Patrol; Grout Pump; Hydro-Blaster (10,000 PSI or Over); Loading Machine (Conveyor); Material or Stack Hoist; Mechanic or Welder; Milling Machine; Post Hole Digger or Driver; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Shoulder Widener; Sideboom; Skid Rig; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Straddle Carrier or Travel Lift; Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Trencher (Wheel Type or Chain Type); Tube Finisher; Tugger (NOT Performing Work on the Great Lakes); Winches & A-Frames. Future Increase(s): Add $1.75/hr on 6/1/2014); Add $1.25/hr on 6/1/2015); Add $1.30/hr on 6/1/2016); Add $1.25/hr on 6/1/2017. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add $1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm.	35.72	20.40	56.12

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
534	Belting, Burlap, Texturing Machine; Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed & Light Equipment); Concrete Finishing Machine (Road Type); Environmental Burner; Farm or Industrial Type Tractor; Fireman (Asphalt Plant, Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forklift; Greaser; Hoist (Tugger, Automatic); Jeep Digger; Joint Sawer (Multiple Blade); Launch (NOT Performing Work on the Great Lakes); Lift Slab Machine; Mechanical Float; Mulcher; Power Subgrader; Robotic Tool Carrier (With or Without Attachments); Roller (Rubber Tire, 5 Ton or Under); Self Propelled Chip Spreader; Shouldering Machine; Skid Steer Loader (With or WIthout Attachments); Telehandler; Tining or Curing Machine. Future Increase(s): Add $1.75/hr on 6/1/2014); Add $1.25/hr on 6/1/2015); Add $1.30/hr on 6/1/2016); Add $1.25/hr on 6/1/2017. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add $1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm.	35.46	20.40	55.86
535	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Automatic Belt Conveyor & Surge Bin; Boiler (Temporary Heat); Concrete Proportioning Plant; Crusher, Screening or Wash Plant; Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Mudjack; Oiler; Prestress Machine; Pug Mill; Pump (3 Inch or Over) or Well Points; Rock, Stone Breaker; Screed (Milling Machine); Stump Chipper; Tank Car Heaters; Vibratory Hammer or Extractor, Power Pack. Future Increase(s): Add $1.75/hr on 6/1/2014); Add $1.25/hr on 6/1/2015); Add $1.30/hr on 6/1/2016); Add $1.25/hr on 6/1/2017. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add $1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm.	35.17	20.40	55.57
536	Fiber Optic Cable Equipment.	26.69	16.65	43.34
537	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	38.80	20.17	58.97
538	Work Performed on the Great Lakes Including 70 Ton & Over Tug Operator; Assistant Hydraulic Dredge Engineer; Crane or Backhoe Operator; Hydraulic Dredge Leverman or Diver's Tender; Mechanic or Welder.	38.80	20.17	58.97

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
539	Work Performed on the Great Lakes Including Deck Equipment Operator or Machineryman (Maintains Cranes Over 50 Tons or Backhoes 115,000 Lbs. or More); Tug, Launch or Loader, Dozer or Like Equipment When Operated on a Barge, Breakwater Wall, Slip, Dock or Scow, Deck Machinery.	34.50	20.04	54.54
540	Work Performed on the Great Lakes Including Deck Equipment Operator, Machineryman or Fireman (Operates 4 Units or More or Maintains Cranes 50 Tons or Under or Backhoes 115,000 Lbs. or Under); Deck Hand, Deck Engineer or Assistant Tug Operator; Off Road Trucks-Great Lakes ONLY.	34.50	20.04	54.54

LOCAL STREET OR MISCELLANEOUS PAVING CONSTRUCTION

Includes roads, streets, alleys, trails, bridges, paths, racetracks, parking lots and driveways (except residential or agricultural), public sidewalks or other similar projects (excluding projects awarded by the Wisconsin Department of Transportation).

SKILLED TRADES

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
103	Bricklayer, Blocklayer or Stonemason	32.01	17.35	49.36
105	Carpenter	32.93	19.93	52.86
107	Cement Finisher	31.48	15.68	47.16
109	Electrician	31.27	22.81	54.08
111	Fence Erector	24.72	0.00	24.72
116	Ironworker	31.25	19.46	50.71
118	Line Constructor (Electrical)	38.25	17.31	55.56
124	Painter	24.50	16.60	41.10
125	Pavement Marking Operator	30.00	0.00	30.00
126	Piledriver	30.98	15.90	46.88
133	Roofer or Waterproofer	29.40	6.25	35.65
137	Teledata Technician or Installer	21.89	11.85	33.74
143	Tuckpointer, Caulker or Cleaner	35.25	13.15	48.40
144	Underwater Diver (Except on Great Lakes)	38.80	20.17	58.97
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	34.43	15.24	49.67
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	30.60	14.86	45.46
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	26.78	13.63	40.41
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	24.86	12.97	37.83
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	12.70	34.45

TRUCK DRIVERS

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
201	Single Axle or Two Axle	30.00	15.00	45.00

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
203	Three or More Axle	17.00	0.00	17.00
204	Articulated, Euclid, Dumptor, Off Road Material Hauler	32.89	18.96	51.85
205	Pavement Marking Vehicle	17.00	0.00	17.00
206	Shadow or Pilot Vehicle	30.00	15.00	45.00
207	Truck Mechanic	17.00	0.00	17.00

LABORERS

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
301	General Laborer	28.07	13.25	41.32
303	Landscaper Future Increase(s): Add $1.60/hr on 6/1/14. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add $1.25/hr for work on projects involving temporary traffic control setup, for lane and shoulder closures, when work under artificial illumination conditions is necessary as required by the project provisions (including prep time prior to and/or cleanup after such time period).	29.04	14.63	43.67
304	Flagperson or Traffic Control Person	24.70	10.72	35.42
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	18.31	12.67	30.98
314	Railroad Track Laborer	23.46	3.30	26.76

HEAVY EQUIPMENT OPERATORS
CONCRETE PAVEMENT OR BRIDGE WORK

Fringe Benefits Must Be Paid On All Hours Worked

CODE	TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
541	Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self-Erecting Tower Crane With a Lifting Capacity Of Over 4,000 Lbs., Crane With Boom Dollies; Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 176 Ft or Over; Master Mechanic. Future Increase(s): Add $1.75/hr on 6/1/2014); Add $1.25/hr on 6/1/2015); Add $1.30/hr on 6/1/2016); Add $1.25/hr on 6/1/2017. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add $1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm.	36.72	20.40	57.12
542	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With a Lifting Capacity of 4,000 Lbs. & Under; Crane, Tower Crane Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Dredge (NOT Performing Work on the Great Lakes); Licensed Boat Pilot (NOT Performing Work on the Great Lakes); Pile Driver. Future Increase(s): Add $1.75/hr on 6/1/2014); Add $1.25/hr on 6/1/2015); Add $1.30/hr on 6/1/2016); Add $1.25/hr on 6/1/2017. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add $1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm.	36.22	20.40	56.62

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
543	Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Automatic Subgrader (Concrete); Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Boring Machine (Directional, Horizontal or Vertical); Bridge (Bidwell) Paver; Bulldozer or Endloader; Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Conveyor System; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump, Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Concrete Spreader & Distributor; Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Crane With a Lifting Capacity of 25 Tons or Under; Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Gradall (Cruz-Aire Type); Grader or Motor Patrol; Grout Pump; Hydro-Blaster (10,000 PSI or Over); Loading Machine (Conveyor); Manhoist; Material or Stack Hoist; Mechanic or Welder; Milling Machine; Post Hole Digger or Driver; Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Shoulder Widener; Sideboom; Skid Rig; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Straddle Carrier or Travel Lift; Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Trencher (Wheel Type or Chain Type); Tube Finisher; Tugger (NOT Performing Work on the Great Lakes); Winches & A-Frames. Future Increase(s): Add $1.75/hr on 6/1/2014); Add $1.25/hr on 6/1/2015); Add $1.30/hr on 6/1/2016); Add $1.25/hr on 6/1/2017. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add $1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm.	35.72	20.40	56.12
544	Backfiller; Belting, Burlap, Texturing Machine; Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed & Light Equipment); Concrete Finishing Machine (Road Type); Environmental Burner; Farm or Industrial Type Tractor; Fireman (Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forklift; Greaser; Jeep Digger; Joint Sawer (Multiple Blade); Launch (NOT Performing Work on the Great Lakes); Lift Slab Machine; Mechanical Float; Mulcher; Power Subgrader; Robotic Tool Carrier (WIth or Without Attachments); Self Propelled Chip Spreader; Shouldering Machine; Skid Steer Loader (With or Without Attachments); Telehandler; Tining or Curing Machine.	33.96	19.79	53.75
545	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Automatic Belt Conveyor & Surge Bin; Boiler (Temporary Heat); Concrete Proportioning Plant; Crusher, Screening or Wash Plant; Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Mudjack; Oiler; Prestress Machine; Pug Mill; Pump (3 Inch or Over) or Well Points; Rock, Stone Breaker; Screed (Milling Machine); Stump Chipper; Tank Car Heaters; Vibratory Hammer or Extractor, Power Pack.	30.32	18.46	48.78
546	Fiber Optic Cable Equipment.	26.69	16.65	43.34

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
547	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	38.80	20.17	58.97
548	Work Performed on the Great Lakes Including 70 Ton & Over Tug Operator; Assistant Hydraulic Dredge Engineer; Crane or Backhoe Operator; Hydraulic Dredge Leverman or Diver's Tender; Mechanic or Welder.	38.80	20.17	58.97
549	Work Performed on the Great Lakes Including Deck Equipment Operator or Machineryman (Maintains Cranes Over 50 Tons or Backhoes 115,000 Lbs. or more); Tug, Launch or Loader, Dozer or Like Equipment When Operated on a Barge, Breakwater Wall, Slip, Dock or Scow, Deck Machinery.	34.50	20.04	54.54
550	Work Performed on the Great Lakes Including Deck Equipment Operator; Machineryman or Fireman (Operates 4 Units or More or Maintains Cranes 50 Tons or Under or Backhoes 115,000 Lbs. or Under); Deck Hand, Deck Engineer or Assistant Tug Operator; Off Road Trucks - Great Lakes ONLY.	34.50	20.04	54.54

HEAVY EQUIPMENT OPERATORS
ASPHALT PAVEMENT OR OTHER WORK

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
551	Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self Erecting Tower Crane With a Lifting Capacity of Over 4,000 Lbs., Crane With Boom Dollies; Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads and/or Jib Lengths Measuring 176 Ft or Over; Master Mechanic.	35.12	18.46	53.58
552	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With a Lifting Capacity Of 4,000 Lbs. & Under; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Dredge (NOT Performing Work on the Great Lakes); Licensed Boat Pilot (NOT Performing Work on the Great Lakes); Pile Driver. Future Increase(s): Add $1.75/hr on 6/1/2014); Add $1.25/hr on 6/1/2015); Add $1.30/hr on 6/1/2016); Add $1.25/hr on 6/1/2017. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add $1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm.	36.22	20.40	56.62

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
553	Air, Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Asphalt Heater, Planer & Scarifier; Asphalt Milling Machine; Asphalt Screed; Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Bituminous (Asphalt) Plant & Paver, Screed; Boring Machine (Directional, Horizontal or Vertical); Bulldozer or Endloader; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Conveyor System; Concrete Laser/Screed; Concrete Slipform Placer Curb & Gutter Machine; Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Crane With a Lifting Capacity of 25 Tons or Under; Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Gradall (Cruz-Aire Type); Grader or Motor Patrol; Hydro-Blaster (10,000 PSI or Over); Loading Machine (Conveyor); Manhoist; Material or Stack Hoist; Mechanic or Welder; Milling Machine; Post Hole Digger or Driver; Railroad Track Rail Leveling Machine, Tie Placer, Extractor, Tamper, Stone Leveler or Rehabilitation Equipment; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Shoulder Widener; Sideboom; Skid Rig; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Trencher (Wheel Type or Chain Type); Tube Finisher; Tugger (NOT Performing Work on the Great Lakes); Winches & A-Frames.	32.89	18.96	51.85
554	Backfiller; Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed & Light Equipment); Concrete Finishing Machine (Road Type); Environmental Burner; Farm or Industrial Type Tractor; Fireman (Asphalt Plant, Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forklift; Greaser; Hoist (Tugger, Automatic); Jeep Digger; Joint Sawer (Multiple Blade); Launch (NOT Performing Work on the Great Lakes); Lift Slab Machine; Mechanical Float; Mulcher; Power Subgrader; Robotic Tool Carrier (With or Without Attachments); Roller (Rubber Tire, 5 Ton or Under); Self-Propelled Chip Spreader; Shouldering Machine; Skid Steer Loader (With or Without Attachments); Telehandler.	33.67	19.48	53.15
555	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Automatic Belt Conveyor & Surge Bin; Boiler (Temporary Heat); Crusher, Screening or Wash Plant; Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Mudjack; Oiler; Prestress Machine; Pug Mill; Pump (3 Inch or Over) or Well Points; Rock, Stone Breaker; Screed (Milling Machine); Stump Chipper; Tank Car Heaters; Vibratory Hammer or Extractor, Power Pack. Future Increase(s): Add $1.75/hr on 6/1/2014); Add $1.25/hr on 6/1/2015); Add $1.30/hr on 6/1/2016); Add $1.25/hr on 6/1/2017. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add $1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm.	35.17	20.40	55.57
556	Fiber Optic Cable Equipment.	26.69	16.65	43.34

RESIDENTIAL OR AGRICULTURAL CONSTRUCTION

Includes single family houses or apartment buildings of no more than four (4) stories in height and all buildings, structures or facilities that are primarily used for agricultural or farming purposes, excluding commercial buildings. For classification purposes, the exterior height of a residential building, in terms of stories, is the primary consideration. All incidental items such as site work, driveways, parking lots, private sidewalks, private septic systems or sewer and water laterals connected to a public system and swimming pools are included within this definition. Residential buildings of five (5) stories and above are NOT included within this definition.

SKILLED TRADES

Fringe Benefits Must Be Paid On All Hours Worked

CODE	TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
101	Acoustic Ceiling Tile Installer Future Increase(s): Add $1.25/hr on 6/2/2014.	33.68	19.81	53.49
102	Boilermaker	26.00	4.73	30.73
103	Bricklayer, Blocklayer or Stonemason	32.01	13.26	45.27
104	Cabinet Installer	22.00	1.05	23.05
105	Carpenter	30.48	3.24	33.72
106	Carpet Layer or Soft Floor Coverer	23.68	3.20	26.88
107	Cement Finisher	20.93	5.94	26.87
108	Drywall Taper or Finisher	22.50	0.88	23.38
109	Electrician	27.50	7.47	34.97
110	Elevator Constructor	42.86	23.84	66.70
111	Fence Erector	18.52	4.89	23.41
112	Fire Sprinkler Fitter	52.82	5.54	58.36
113	Glazier	38.03	13.42	51.45
114	Heat or Frost Insulator	30.00	0.00	30.00
115	Insulator (Batt or Blown)	19.00	14.33	33.33
116	Ironworker	31.25	19.46	50.71
117	Lather	30.48	3.24	33.72
119	Marble Finisher	26.89	19.18	46.07
120	Marble Mason	32.01	13.26	45.27
121	Metal Building Erector	17.00	3.82	20.82
123	Overhead Door Installer	12.00	0.00	12.00
124	Painter	20.00	4.22	24.22

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
125	Pavement Marking Operator	30.00	0.00	30.00
129	Plasterer	25.00	0.00	25.00
130	Plumber	30.00	10.62	40.62
132	Refrigeration Mechanic	19.75	8.56	28.31
133	Roofer or Waterproofer	17.00	3.72	20.72
134	Sheet Metal Worker	21.03	3.40	24.43
135	Steamfitter	31.72	16.10	47.82
137	Teledata Technician or Installer	24.75	8.09	32.84
138	Temperature Control Installer	22.50	0.70	23.20
139	Terrazzo Finisher	26.89	19.18	46.07
140	Terrazzo Mechanic	30.20	18.42	48.62
141	Tile Finisher	23.77	16.50	40.27
142	Tile Setter	21.00	0.00	21.00
143	Tuckpointer, Caulker or Cleaner	32.50	0.02	32.52
146	Well Driller or Pump Installer	27.60	5.80	33.40
147	Siding Installer	20.18	0.00	20.18

TRUCK DRIVERS

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
201	Single Axle or Two Axle	28.05	4.16	32.21
203	Three or More Axle	18.00	2.37	20.37
205	Pavement Marking Vehicle	18.00	2.37	20.37
207	Truck Mechanic	19.00	1.85	20.85

LABORERS

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
301	General Laborer	18.14	10.16	28.30
302	Asbestos Abatement Worker	17.00	3.86	20.86

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
303	Landscaper	30.00	0.00	30.00
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	18.31	12.67	30.98
315	Final Construction Clean-Up Worker	16.00	0.00	16.00

HEAVY EQUIPMENT OPERATORS
RESIDENTIAL OR AGRICULTURAL CONSTRUCTION

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
557	Asphalt Heater, Planer & Scarifier; Asphalt Milling Machine; Asphalt Screed; Backhoe (Track Type); Backhoe (Mini, 15,000 Lbs. & Under); Bituminous (Asphalt) Plant & Paver, Screed; Boring Machine (Directional, Horizontal or Vertical); Bulldozer or Endloader; Concrete Breaker (Large, Auto, VIbratory/Sonic, Manual or Remote); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Conveyor System; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump, Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Concrete Spreader & DIstributor; Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Crane With a Lifting Capacity of 25 Tons or Under; Crane, Shovel, Dragline, Clamshells; Forestry Equipment, TImbco, Tree Shear, Tub Grinder, Processor; Grader or Motor Patrol; Grout Pump; Hydro-Blaster (10,000 PSI or Over); Loading Machine (Conveyor); Manhoist; Material or Stack Hoist; Mechanic or Welder; Milling Machine; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Shoulder Widener; Skid Rig; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane (10 Tons or Under); Trencher (Wheel Type or Chain Type); WInches & A-Frames.	29.70	20.08	49.78
558	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Backfiller; Belting, Burlap, Texturing Machine; Boiler (Temporary Heat); Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed & LIght Equipment); Concrete Finishing Machine (Road Type); Farm or Industrial Type Tractor; Forklift; Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Jeep Digger; Lift Slab Machine; Mulcher; Oiler; Post Hole Digger or Driver; Power Subgrader; Pump (3 Inch or Over) or Well Points; Robotic Tool Carrier (With or Without Attachments); Rock, Stone Breaker; Roller (Rubber Tire, 5 Tons or Under); Screed (Milling Machine); Self Propelled Chip Spreader; Shouldering Machine; Skid Steer Loader (With or Without Attachments); Stump Chipper; Telehandler; Vibratory Hammer or Extractor, Power Pack.	29.70	16.00	45.70

********** END OF RATES **********