memo



Project Name | Settlers Glen Iron-Enhanced Sand Filter

Date

1/6/2023 Rev. 1/9/2023

To / Contact info | BCWD Board of Managers

Cc / Contact info | Karen Kill, BCWD Administrator

From / Contact info | Ryan Fleming, PE

Regarding | Pump Harvest Pond Maintenance Contractor Recommendation

The purpose of this memorandum is to provide a recommendation for selecting a contractor to perform maintenance to return the Settlers Glen iron-enhanced sand filter pump harvest pond to the as-built conditions. The work (excavation and disposal of accumulated sediment) is described in Attachment A: Request for Quote Package.

Quote Summary

Based on direction the Board provided at the 8/10/2022 Board Meeting, the following language was included in the RFQ, "BCWD encourages participation by minority, women, and veteran-owned businesses as prime contractors, and encourages all prime contractors to make a significant commitment to use minority, women, veteran owned and other disadvantaged business entities as subcontractors and suppliers. If applicable, please list any information regarding how these categories of disadvantaged business entities are included in your submission".

The request for quote was sent to 89 contractors including 54 from the MN Disadvantaged Business Enterprise Program (DBE) database. The DBE is a program for business owners that are socially and economically disadvantaged. The database is keyword searchable and those that offer services that align with the nature of this work were contacted. The veteran owned business directory was also searched but yielded only two excavation contractors. EOR inquired with a local veteran contractor as well as the Veterans of Foreign Wars organization to find out about more comprehensive directories without success. We will continue to seek other avenues to locate veteran owned contractors in the future.

The request for quote package was distributed to contractors on 12/19/2022; seven contractors submitted quotes as summarized in Table 1.

Table 1. Summary of Quotes

COMPANY	DBE/Veteran Owned Response	TOTAL QUOTE	
Dimke Excavating, Inc.	Using MBE Trucking, DBE certified	\$39,471.25	
New Look Contracting, Inc.	Willing to consider WBE or MBE trucking if	\$44,521.00	
Rachel Contracting, LLC	selected Likely that selected trucking firm used is DBE listed	\$46,884.10	
Rock Leaf Water Environmental, LLC*	Woman-owned business	\$49,317.50	
Peterson Companies, Inc.	Does not apply to quoted work	\$54,895.00	
US SiteWork	Certified Small Business	\$67,643.00	
Shoreline Landscaping	Unknown, no response	\$88,258.00	
Engineer's Estimate**		\$32,000.00	

^{*}Rock Leaf Water Environmental was selected for a 2-year contract to conduct underground infrastructure maintenance in the BCWD.

^{**}Engineer's estimate was drafted prior to knowledge of arsenic and PAH concentrations above Soil Reference Values.

Recommendation

EOR recommends the Board consider award of the contract based on the quoted values and the DBE/Veteran owned status shown in Table 1.

Board Action

1.	Award the contract for the Settlers Glen Pump Harvest Pond Maintenance at a value of
	\$ from Account: 948-0000 and approval of the Administrator to enter into contract
	upon advice of Legal Counsel.

ATTACHMENT A (Memo_BCWD_IESF_Maint_ContractorRecc)

memo



12/19/2022

Project Name | Settlers Glen Pump Harvest Pond

To / Contact info | Prospective Contractor

Cc / Contact info | Karen Kill, BCWD Administrator

From / Contact info | Ryan Fleming, PE

Regarding | Pond Maintenance (Dredging)

Request:

Brown's Creek Watershed District (BCWD) is soliciting competitive quotes for dredging of an existing pump harvest & sediment settling pond located in the Settlers Glen Neighborhood in the City of Stillwater, MN. (Emmons & Olivier Resources is the BCWD engineer.)

The project is generally located near Morgan Avenue North, north of Boutwell Road North and west Neal Avenue North as shown in Figure 1. Work will take place on property owned by the City of Stillwater. Access is established within a cooperative agreement between the BCWD and city of Stillwater, attached hereto as Attachment 1. Laboratory analysis was conducted on sediment samples from the pond collected on November 2, 2022. A laboratory report is included in Attachment 2.

BCWD encourages participation by minority, women, and veteran-owned businesses as prime contractors, and encourages all prime contractors to make a significant commitment to use minority, women, veteran owned and other disadvantaged business entities as subcontractors and suppliers. If applicable, please list any information regarding how these categories apply in your submission.

Quotes must be submitted by email or hand-delivery to Emmons & Olivier Resources at the address below by 5:00 PM January 5, 2023. It is anticipated a contract for the work will be authorized at the BCWD Board meeting on January 11, 2023. The work must be completed by April 30, 2023. The form of the contract to be entered by the selected contractor and the Brown's Creek Watershed District is attached. Respondents must prepare a quote based upon the requirements of the proposed contract and attached site plans, designs and technical specifications. Respondents must furnish a LUMP SUM quote to procure & furnish materials to: mobilize, install erosion & sediment control devices, dewater the pond as necessary to carry out sediment removal, remove sediment in the pond to the specified elevation, dispose of sediment, restore all disturbed areas, and perform all associated work in accordance with the site plans and designs and technical specifications attached as Exhibit A to the form of contract attached hereto. To be selected for the work, a respondent must have prior experience conducting cleanout of stormwater-management facilities and disposing of sediment removed. The lump sum amount provided in response to this request must represent full payment for all costs associated with removal and disposal of all material, debris, and liquids located in the pond, including, but not limited to, materials, labor, permits, insurance, traffic control, disposal fees, flow diversion, dewatering, erosion & sediment control, and the required site restoration. The contractor will procure all licenses, permits and other rights and approvals required for the work including but not limited to city grading and right-of-way permitting. BCWD will obtain approval for the work under the Department of Natural Resources Work in Waters program, and related to the Wetland Conservation Act and the US Army Corps of Engineers.

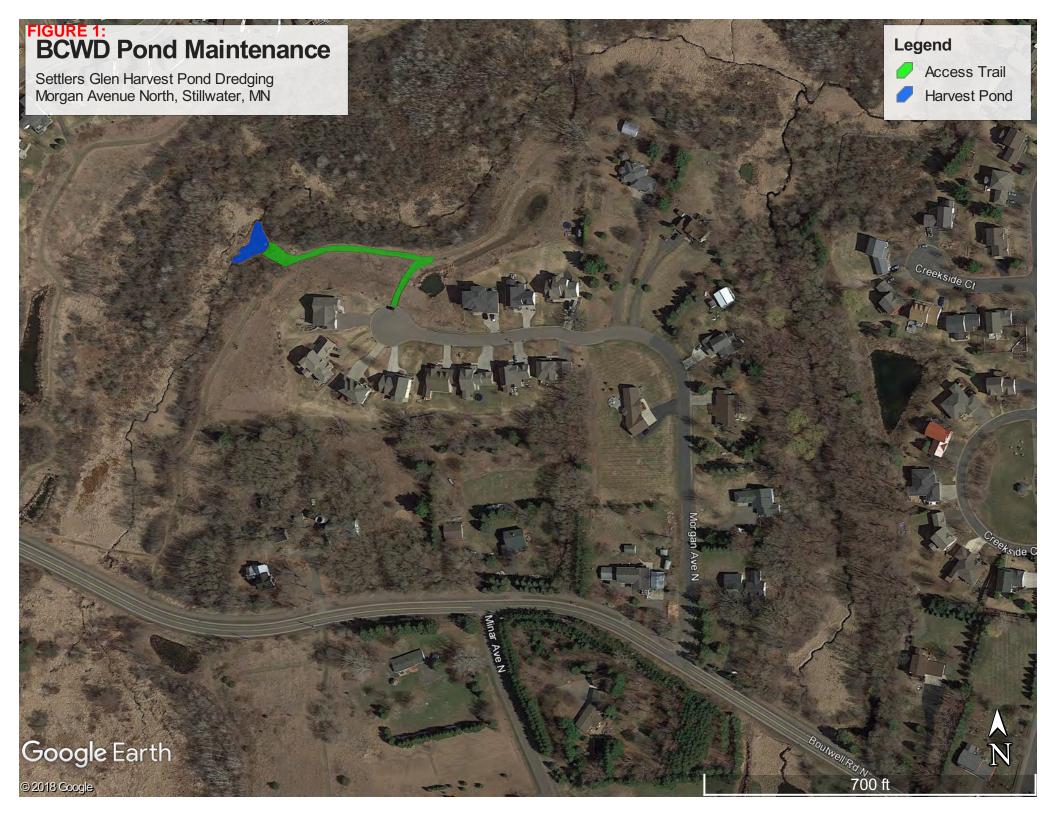
Unless a party receiving this RFQ package contacts the individual listed below and requests otherwise, the party's name and contact information (only) may be distributed to other interested parties.

If you have any questions regarding this RFQ, please contact Ryan Fleming, PE at 651.203.6034 or rfleming@eorinc.com.

I hereby certify that this request for quotations was prepared by me or under my direct supervision and that I am a duly registered certified engineer under the laws of the State of Minnesota.

Ryan Fleming, PE

Reg. no. 46211



Agreement between Brown's Creek Watershed District and

Settlers Glen Pump Harvest Pond Dredging

This contract is entered into by the Brown's Creek Watershed District, a public body with
powers set forth in Minnesota Statutes chapters 103B and 103D (BCWD), and
, a private corporation (CONTRACTOR). In consideration of the
terms and conditions set forth herein, including mutual consideration, the sufficiency of
which is hereby acknowledged, BCWD and CONTRACTOR agree as follows:

1. Scope of Work

CONTRACTOR will procure & furnish materials to: mobilize, install erosion & sediment control devices, dewater the pond as necessary to carry out sediment removal, remove sediment in the pond to the specified elevation, dispose of sediment in accordance with all applicable regulatory requirements, restore all disturbed areas, and perform all associated work in accordance with the site plans and designs and technical specifications attached hereto as Exhibit A (hereinafter, the Work) and the Contract Documents listed below. The Work will be completed in accordance with the Contract Documents, which consist of the following:

Change orders;

Notice to proceed;

This contract:

Addendums:

CONTRACTOR's complete quote form (Exhibit B); and

Exhibit A – Plans and Designs, and the technical specifications titled "Settlers Glen Pump Harvest Pond Dredging" (6 sheets, October 30, 2022); Division II and Division III sections of the 2020 MnDOT Specifications Manual.

In the event of apparent conflict between terms in Contract Documents, interpretive priority will be given to the first-listed document above. Exhibit A is incorporated into this contract and its terms, conditions and schedules are binding on CONTRACTOR as a term hereof. CONTRACTOR will furnish all materials, machinery, equipment, tools, labor and expertise needed to complete the Work. BCWD, at its discretion, in writing may at any time suspend work or amend the contract to delete any task or portion thereof. Authorized work by CONTRACTOR

on a task deleted or modified by BCWD will be compensated in accordance with the terms of this contract generally and paragraph 5 specifically.

2. <u>Independent Contractor</u>

CONTRACTOR is an independent contractor. CONTRACTOR will select the means, method and manner of performing the Work. Nothing herein constitutes CONTRACTOR as the agent, representative or employee of BCWD in any respect. Personnel performing the Work on behalf of CONTRACTOR will not be considered employees of BCWD and will not be entitled to any compensation, rights or benefits of any kind from BCWD.

3. Subcontract and Assignment

CONTRACTOR may not assign, subcontract or transfer any obligation or interest in this contract or any of the Work without the written consent of BCWD and pursuant to any conditions included in that consent. BCWD consent to any subcontracting does not relieve CONTRACTOR of its responsibility to BCWD to perform the Work or any part thereof, nor in any respect affect its warranty, insurance, indemnification, duty to defend or agreement to hold harmless with respect to the Work.

4. Warranty and Indemnification

CONTRACTOR will perform the Work with due care in a proper, workmanlike and good quality manner, and warrants that all materials and labor will be in strict conformity in every respect with the Contract Documents. CONTRACTOR warrants the completed Work, including all site stabilization measures and vegetation, for one year from the date the BCWD determines the Work to be complete. CONTRACTOR warrants that it has examined the site to the extent necessary to agree to the price of the Work and accepts any increased cost resulting from changes to the Work in response to foreseeable site conditions.

CONTRACTOR will defend, indemnify and hold harmless BCWD, its officers, board members, employees and agents from: (a) CONTRACTOR's negligent or otherwise wrongful act or omission, or breach of a specific contractual duty; or (b) a subcontractor's negligent or otherwise wrongful act or omission, or breach of a specific contractual duty owed by CONTRACTOR to BCWD. For any claim subject to indemnification under this paragraph by an employee of CONSULTANT or a subcontractor, the indemnification obligation is not limited by a limitation on the amount or type of damages, compensation or benefits payable by or for CONSULTANT or a subcontractor under workers' compensation acts, disability acts or other employee benefit acts.

BCWD will indemnify, defend and hold harmless CONTRACTOR, its officers, employees and agents, from any and all actions, costs, damages and liabilities of any nature to the degree they are the result of any action or inaction by BCWD that is the basis for BCWD's liability in law or equity.

5. <u>Compensation</u>

BCWD will compensate the CONTRACTOR on a progress-payments basis for completed work and will reimburse direct costs in accordance with Exhibit B. Invoices will be submitted monthly for work performed during the preceding month. BCWD will pay for undisputed work within 35 days of receipt of invoice. Direct costs not specified in Exhibit B will not be reimbursed except with prior written approval of BCWD administrator. In accordance with Minnesota Statutes section 471.425, subdivision 4a, CONTRACTOR will pay any subcontractor within 10 days of CONTRACTOR's receipt of payment from BCWD for undisputed services provided by the subcontractor. CONTRACTOR will pay interest of 1½ percent per month or any part of a month to a subcontractor on any undisputed amount not paid on time to the subcontractor. The minimum monthly interest penalty payment for an unpaid balance of \$100 or more is \$10. For an unpaid balance of less than \$100, CONTRACTOR will pay the actual penalty due to the subcontractor.

Total compensation due under this contract will not exceed \$______. "Total compensation" means all sums to be paid whatsoever, including but not limited to mobilization, incidental, administrative and overhead costs, subcontract costs and reimbursement of direct costs, whether specified in this contract or subsequently authorized by BCWD administrator.

BCWD will not make final payment until CONTRACTOR has provided proof of compliance with state income tax withholding requirements pursuant to Minnesota Statutes section 270C.66.

CONTRACTOR will maintain all records pertaining to fees or costs incurred in connection with the Work for six years from the date of completion of the Work. Any authorized BCWD representative or representative of the Minnesota State Auditor will have access to and the right to examine, audit or copy any such records during normal business hours.

6. <u>Compliance with Laws; Site Control</u>

CONTRACTOR will comply with the laws and requirements of all federal, state, local and other governmental units in connection with performing the Work, including but not limited to Minnesota Pollution Control Agency permitting and approval requirements for disposition of sediment from stormwater sediment

removal requirements (see https://www.pca.state.mn.us/water/wastewater-dredged-materials-management#projects). CONTRACTOR will procure all licenses, permits and other rights and approvals required for the Work, except that BCWD has procured the rights necessary to access the site for purposes of the maintenance via the route and to work within the limits shown in Exhibit A, and except that BCWD will secure approval of the Work under the state Department of Natural Resources work in waters program. CONTRACTOR will not access the site of the Work via a route different from that shown on or exceed the work-area limits shown on Exhibit A. CONTRACTOR will comply with all local requirements as to traffic, staging, site ingress and egress, work hours and site maintenance.

CONTRACTOR is responsible for site conditions relating to worker and public safety, cleanliness and environmental protection and in all other respects. CONTRACTOR will report to Gopher State One Call before any excavation in accordance with Minnesota Statutes chapter 216 as may be applicable to the Work and is responsible to identify and protect all structures and utilities, whether above or below ground, and for any damage or injury resulting from the failure to do so. CONTRACTOR will not injure or destroy any shrub or tree on site except as agreed to by BCWD in writing.

In its performance of the Work, CONTRACTOR will ensure that no person is excluded from full employment rights or participation in or the benefits of any program, service or activity on the ground of race, color, creed, religion, age, sex, disability, marital status, sexual orientation, public assistance status or national origin; and no person who is protected by applicable federal or state laws, rules or regulations against discrimination otherwise will be subjected to discrimination.

7. <u>Termination; Continuation of Obligations</u>

This contract is in force when fully executed by the parties and will remain in force until **August 1**, **2023**, unless earlier terminated as set forth herein. BCWD may suspend or terminate this contract with or without cause by a written termination notice stating specifically what prior authorized or additional tasks it requires CONTRACTOR to complete. If the contract is suspended or terminated for convenience, CONTRACTOR will be compensated for all authorized work completed, including reasonable costs for actions directed by BCWD to stabilize the site of the Work. If suspension or termination is for cause, CONTRACTOR will stabilize all disturbed work sites before vacating, without extra compensation. CONTRACTOR will be given a reasonable opportunity to cure before termination for cause.

It is understood and agreed that insurance obligations; warranties and obligations to defend, indemnify and hold harmless; and document-retention requirements survive the completion of the Work and the term of this contract.

8. Waiver

BCWD's failure to insist on CONTRACTOR's strict performance of any obligation, condition or provision of this contract, or to exercise any option, remedy or right herein, will not waive its rights in the future to do so. The waiver of either party on one or more occasion of any provision or obligation of this contract will not be construed as a waiver of any subsequent breach of the same provision or obligation, and the consent or approval by either party to or of any act by the other requiring consent or approval will not render unnecessary such party's consent or approval to any subsequent similar act by the other.

Notwithstanding any other term herein, the contract creates no rights in any third party, and BCWD waives no tort defense, immunity or liability limit with respect to CONTRACTOR or any third party.

9. Insurance

At all times during the term of this contract, CONTRACTOR will have and keep in force the following insurance coverages:

- A. General liability: \$1.5 million each occurrence and aggregate, covering completed operations and contractual liability on an occurrence basis.
- B. Automobile liability: combined single limit each occurrence coverage for bodily injury and property damage covering all vehicles on an occurrence basis, \$1.5 million.
- C. Workers' compensation: in accordance with legal requirements applicable to CONTRACTOR.

CONTRACTOR will not commence work until it has filed with BCWD a certificate of insurance clearly evidencing the required coverage and naming BCWD as an additional insured with primary coverage for general liability on a noncontributory basis, along with a copy of the additional-insured endorsement. The certificate will name BCWD as a holder and will state that BCWD will receive written notice before cancellation, nonrenewal or a change in the limit of any described policy under the same terms as CONTRACTOR.

10. Records

All documents and information obtained or generated by CONTRACTOR or a subcontractor in performing the Work, including hard and electronic copy, software, and in any other forms in which the materials are contained, documented or memorialized, are the property of BCWD.

BCWD may immediately inspect, copy or take possession of any such materials on written request to CONTRACTOR. CONTRACTOR may maintain a copy of any such materials at its expense.

Any document or information supplied to CONTRACTOR by BCWD or deriving from BCWD is given and accepted without representation or warranty including but not limited to a warranty of fitness, merchantability, accuracy or completeness. Absent BCWD written approval, CONTRACTOR will not use any such document or information other than for performance of the Work. CONTRACTOR will not disclose to any third party proprietary material so denominated by BCWD.

11. <u>Data Practices; Confidentiality</u>

If CONTRACTOR receives a request for data pursuant to the Data Practices Act, Minnesota Statutes chapter 13 (DPA), that may encompass data (as that term is defined in the DPA) CONTRACTOR possesses or has created as a result of this contract, CONTRACTOR will inform BCWD immediately and transmit a copy of the request. If the request is addressed to BCWD, CONTRACTOR will not provide any information or documents, but will direct the inquiry to BCWD. If the request is addressed to CONTRACTOR, CONTRACTOR will be responsible to determine whether it is legally required to respond to the request and otherwise what its legal obligations are, but will notify and consult with BCWD and its legal counsel before replying. Nothing in the preceding sentence supersedes CONTRACTOR's obligations under this contract with respect to protection of BCWD data, property rights in data or confidentiality. Nothing in this section constitutes a determination that CONTRACTOR is performing a governmental function within the meaning of Minnesota Statutes section 13.05, subdivision 11, or otherwise expands the applicability of the DPA beyond its scope under governing law.

CONTRACTOR agrees that it will not disclose and will hold in confidence any and all proprietary materials owned or possessed by BCWD and so denominated by BCWD. CONTRACTOR will not use any such materials for any purpose other than performance of the Work without BCWD written consent. This restriction does not apply to materials already possessed by CONTRACTOR or that CONTRACTOR received on a non-confidential basis from BCWD or another party.

12. BCWD Property

All property furnished to or for the use of CONTRACTOR or a subcontractor by BCWD and not fully used in the performance of the Work, including but not limited to equipment, supplies, materials and data, both hard copy and electronic, will remain the property of BCWD and returned to BCWD at the conclusion of the performance of the Work, or sooner if requested by BCWD. CONTRACTOR further agrees that any proprietary materials are the exclusive property of BCWD and will assert no right, title or interest in the materials. CONTRACTOR will not disseminate, transfer or dispose of any proprietary materials to any other person or entity unless specifically authorized in writing by BCWD. Any property including but not limited to materials supplied to CONTRACTOR by BCWD or deriving from BCWD is supplied to and accepted by CONTRACTOR as without representation or warranty including but not limited to a warranty of fitness, merchantability, accuracy or completeness. However, CONTRACTOR's warranty under paragraph 4, above, does not extend to materials provided to CONTRACTOR by BCWD or any portion of the Work that is inaccurate or incomplete as the result of CONTRACTOR's reliance on those materials.

13. Notices

Any written communication to BCWD required under this contract will be directed to:

Karen Kill 455 Hayward Avenue North Oakdale, Minnesota 55128 651-330-8220 x26

Written communication to CONTRACTOR:

Owner Name: Company Name: Street Address:

City: State: Zip:

Phone Number:

14. Choice of Law, Venue and Jurisdiction

This contract will be construed under and governed by the laws of the State of Minnesota.

15. Completion of Work

The Work must be certified by the CONTRACTOR as substantially complete for the purposes intended on or before April 30, 2023, and all complete and ready for final payment by June 1, 2023.

16. Whole Contract

The entire contract between the parties is contained herein and this contract supersedes all oral contracts and negotiations relating to the subject matter hereof. BCWD may amend this contract by means of a proper work change directive clearly denominated as such. Any other amendment must be signed by both parties.

IN WITNESS WHEREOF, intending to be legally bound, the parties hereto execute and deliver this contract.

[CONTRACTOR]	
	Date:
Its	
BROWN'S CREEK WATERSHED DISTRICT	
	Date:
By Karen Kill	
Its administrator	
Approved as to form and execution	
Counsel Brown's Creek Watershed I	District

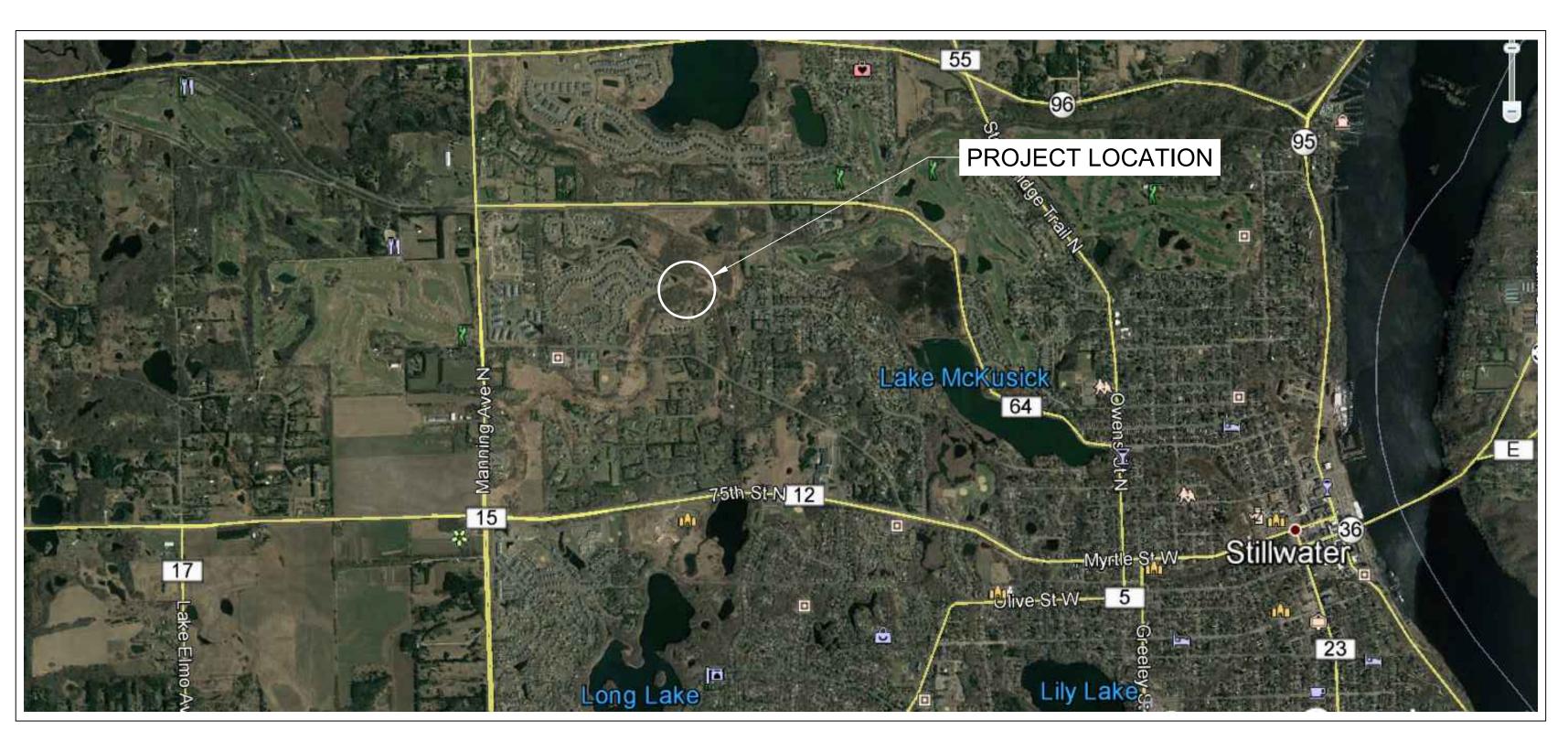
EXHIBIT A Site Plans, Design and Specifications

EXHIBIT B Contractor's Completed Quote Form

BROWN'S CREEK WATERSHED DISTRICT

SETTLERS GLEN PUMP HARVEST POND DREDGING

WASHINGTON, MINNESOTA



Sheet List Table			
Sheet Number	Sheet Title		
01	TITLE SHEET		
02	SEQ & NOTES		
03	EXISTING CONDITIONS		
04	PROPOSED GRADING		
05	EROSION CONTROL & RESTORATION		
06	DETAIL SHEETS		

* THIS PLAN SET CONTAINS 06 PLAN SHEETS

EXISTING UTILITIES

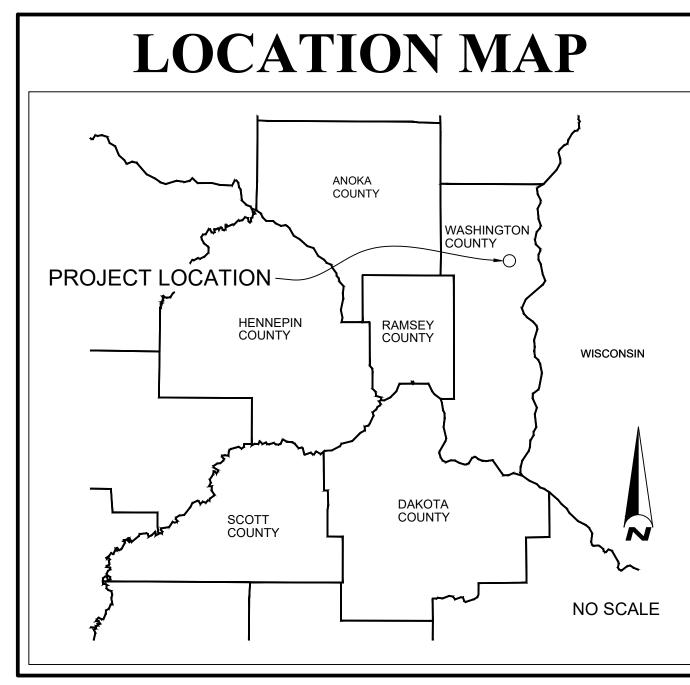
THE LOCATION OF UNDERGROUND FACILITIES AND/OR STRUCTURES AS SHOWN ON THE PLANS ARE BASED ON AVAILABLE RECORD AT THE TIME THE PLANS WERE PREPARED AND ARE NOT GUARANTEED TO BE COMPLETE OR CORRECT. THE SUBSURFACE UTILITY INFORMATION SHOWN IS UTILITY QUALITY LEVEL D, AS DETERMINED USING THE GUIDELINES OF "CI/ASCE 38-02 STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA." THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION TO DETERMINE THE EXACT LOCATION OF ALL FACILITIES AND TO PROVIDE ADEQUATE PROTECTION OF SAID UTILITIES DURING THE COURSE OF WORK.

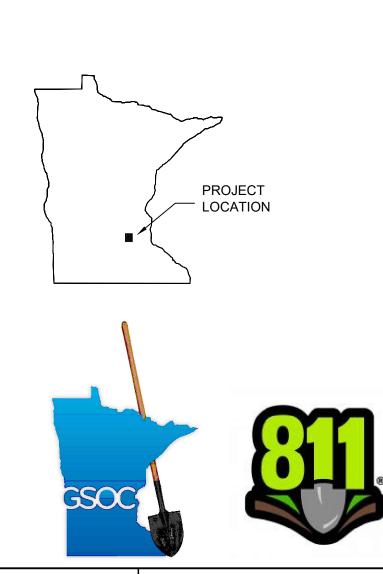
CONSTRUCTION NOTE

CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO MAINTAIN OPERATION OF EXISTING UTILITIES THROUGHOUT THE DURATION OF THE PROJECT. IN THE EVENT THAT AN INTERRUPTION OF SERVICE IS UNAVOIDABLE IN ORDER TO COMPLETE THE WORK, CONTRACTOR SHALL PROVIDE ADEQUATE NOTIFICATION TO ALL AFFECTED BUSINESSES A MINIMUM OF 3 WORKING DAYS IN ADVANCE OF ANY INTERRUPTION.

GOPHER STATE ONE-CALL

IT IS THE LAW THAT ANYONE EXCAVATING AT ANY SITE MUST NOTIFY GOPHER STATE ONE CALL (GSOC) SO THAT UNDERGROUND ELECTRIC, NATURAL GAS, TELEPHONE OR OTHER UTILITY LINES CAN BE MARKED ON OR NEAR YOUR PROPERTY BEFORE ANY DIGGING BEGINS. A 48-HOUR NOTICE, NOT INCLUDING WEEKENDS, IS REQUIRED. CALLS CAN BE MADE TO GSOC AT 1-800-252-1166 OR (651)454-0002, MONDAY THROUGH FRIDAY (EXCEPT HOLIDAYS) FROM 7 A.M. TO 5 P.M.





STATE PROJECT NO. ----

CLIENT

BROWN'S CREEK WATERSHED DISTRICT 455 HAYWARD AVE N OAKDALE, MN 55128

ENGINEER

EMMONS & OLIVIER RESOURCES, INC. 1919 UNIVERSITY AVE W SUITE 300 ST PAUL, MINNESOTA 55104 TELEPHONE: (651) 770-8448 FAX: (651) 770-2552 EORINC.COM

REVISION DATE

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

RYAN FLEMING DATE: 10-30-2022 LICENSE # 46211

SUBMISSION DATE: 10-30-2022 DESIGN BY DRAWN BY EOR PROJECT NO.

00041-0339

Emmons & Olivier Resources, Inc. 1919 UNIV. AVE W #300 w a t e r ST. PAUL, MN 55104 e c o | o g y TELE: 651.770.8448

community www.eor.com

BROWN'S CREEK WATERSHED DISTRICT 455 HAYWARD AVE N OAKDALE, MN 55128

SETTLERS GLEN PUMP HARVEST POND DREDGING STILLWATER, WASHINGTON, MINNESOTA

CITY PROJECT NO. ---

TITLE SHEET

SHEET 01 OF 06 SHEETS

EXHIBIT A

Item	MnDOT Reference #	Unit	Estimate
Mobilization	2021.501	LS	1.00
Muck Excavation (EV) (Including Disposal)	2105.507	CY	215.00
Stabilized Construction Exit (Install, Maintain & Removal)	2573.501	LS	1.00
Storm Drain Inlet Protection (Install, Maintain & Removal)	2573.501	LS	1.00
Sediment Control Log (Install, Maintain & Removal)	2573.503	LF	390.00
Sediment Filter log	2573.503	EA	1.00
Turf Establishment	2575.501	LS	1.00

GRADING & EROSION CONTROL NOTES

- 1. CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL (1-800-252-1166 OR 651-454-0002) BY AT LEAST TWO (2) BUSINESS DAYS PRIOR TO EXCAVATION/ CONSTRUCTION, FOR UTILITY LOCATIONS.
- 2. CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO START OF SITE GRADING. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES OR VARIATIONS.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HORIZONTAL AND VERTICAL CONTROL.
- 4. INSTALL EROSION CONTROL AND TREE PROTECTION MEASURES BEFORE BEGINNING SITE GRADING ACTIVITIES. MAINTAIN EROSION CONTROLS THROUGHOUT THE GRADING PROCESS AND REMOVE UPON APPROVAL BY PROJECT ENGINEER.
- ALL EXPOSED SOIL AREAS WITHIN 100 FEET OF A WATER OF THE STATE OR ANY STORMWATER CONVEYANCE SYSTEM WHICH IS CONNECTED TO A WATER OF THE STATE MUST BE STABILIZED WITHIN 24 HOURS.
- SEE PROPOSED GRADING, DRAINAGE, AND EROSION CONTROL PLAN FOR ADDITIONAL REQUIREMENTS.
- ALL CONSTRUCTION ENTRANCES SHALL BE SURFACED WITH CRUSHED ROCK ACROSS FULL WIDTH FROM ENTRANCE POINT TO 50 FEET INTO THE CONSTRUCTION ZONE. SEE DETAIL. ALTERNATIVE DEVICES MAY BE USED AFTER APPROVAL BY ENGINEER.
- INLET PROTECTION IS TO BE USED DURING CONSTRUCTION. SEE MN/DOT SPECIFICATIONS.
- . ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH CITY, COUNTY, STATE AND BCWD PERMITS.
- 10. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES, INCLUDING THE REMOVAL OF ACCUMULATED SILT IN FRONT OF SILT FENCES OR OTHER DEVICES DURING THE DURATION OF THE CONSTRUCTION.
- 11. CONTRACTOR SHALL PROVIDE ADDITIONAL TEMPORARY EROSION CONTROL MEASURES AS REQUIRED FOR CONSTRUCTION.
- 12. REMOVE ALL EROSION CONTROL MEASURES AT DIRECTION OF ENGINEER.
- 13. THE CONTRACTOR SHALL REMOVE ALL SOILS AND SEDIMENT TRACKED ONTO EXISTING STREETS AND PAVED AREAS WITHIN 24 HOURS OF NOTICE AND, ON A DAILY BASIS AND MORE OFTEN IF DEEMED NECESSARY BY CITY AND PROJECT ENGINEER.
- 14. IF BLOWING DUST BECOMES A NUISANCE, THE CONTRACTOR SHALL APPLY WATER FROM A TANK TRUCK OR OTHER MEANS APPROPRIATE TO ALL CONSTRUCTION AREAS.
- 15. INSPECT EROSION CONTROL DEVICES AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. IMMEDIATELY REPAIR FAILED OR FAILING EROSION CONTROL DEVICES.
- 16. SEDIMENT REMOVAL SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT.
- 17. ANY SEDIMENT REMAINING IN PLACE AFTER THE EROSION CONTROL DEVICE IS NO LONGER REQUIRED SHALL BE GRADED TO CONFORM WITH THE EXISTING GRADE, PREPARED, AND SEEDED WITH THE APPROPRIATE SEED MIX AND MULCH OR EROSION CONTROL REVEGETATIVE BLNAKET AS DIRECTED BY THE ENGINEER.
- 18. SUITABLE GRADING MATERIAL SHALL CONSIST OF ALL SOIL ENCOUNTERED ON THE SITE WITH EXCEPTION OF TOPSOIL, DEBRIS, ORGANIC MATERIAL AND OTHER UNSTABLE MATERIAL. STOCKPILE TOPSOIL AND GRANULAR FILL AT LOCATIONS DIRECTED BY OWNER.
- 19. FINAL GRADING TOLERANCES ARE ±0.1 FEET OF PLAN GRADES.
- 20. ALL EXCESS MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OFF THE CONSTRUCTION SITE.
- 21. CONTRACTOR IS RESPONSIBLE FOR GRADING AND SLOPING THE FINISHED GROUND SURFACE TO PROVIDE SMOOTH & UNIFORM SLOPES, WHICH PROVIDE POSITIVE DRAINAGE AND PREVENT PONDING IN LOWER AREAS. CONTACT ENGINEER IF FIELD ADJUSTMENTS TO GRADING PLANS ARE REQUIRED.
- 22. TURF RESTORATION IS TO BE SEEDED AND BLANKETED IN ACCORDANCE WITH THE RESTORATION PLAN.
- 23. THE PROJECT IS LOCATED IN WHAT THE OWNER CONSIDERS AN ENVIRONMENTALLY SENSITIVE AREA. DISTURBANCE IS TO BE MINIMIZED TO THE EXTENT POSSIBLE. RESTORATION OF ANY DISTURBED AREA OUTSIDE OF THE CONSTRUCTION LIMITS IS TO BE CONSIDERED INCIDENTAL TO THE PROJECT.

GENERAL SITE WORK NOTES

- 1. REFERENCE TO MN/DOT SPECIFICATIONS SHALL MEAN THE 2020 SPECIFICATIONS FOR CONSTRUCTION.
- ENGINEER WILL PROVIDE 1 BENCHMARK ON TOP OF INTAKE STRUCTURE LOCATED IN POND. ELEVATION OF CONTROL WILL BE PROVIDED TO CONTRACTOR.
- 3. SITE ACCESS IS ONLY OFF MORGAN COURT FROM MORGAN AVENUE N.
- 4. FOLLOW MN/DOT STD. SPECIFICATION 2575 FOR VEGETATION ESTABLISHMENT REQUIREMENTS.
- 5. INSTALL MN/DOT SEED MIX 130 AND TYPE 3 MULCH PER SPECIFICATION 3876 FOR TEMPORARY COVER OF GRADED AREAS INCLUDING TOPSOIL STOCKPILES.
- 6. TOPOGRAPHIC INFORMATION PER BOUNDARY AND TOPOGRAPHIC SURVEY BY ORIGINAL MFRA DESIGN AND EOR SUPPLEMENTAL SURVEY.
- 7. CONTRACTOR SHALL INSTALL, INSPECT, MAINTAIN AND REMOVE THE NECESSARY SIGNAGE FOR TRAFFIC CONTROL. ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MN MUTCD.

TRAIL ACCESS NOTES

1. CONTRACTOR SHALL COORDINATE TRAIL ACCESS AND PUBLIC CLOSURES, AS NEEDED, WITH THE CITY OF STILLWATER.

HARVEST POND BYPASS / DEWATERING NOTES

- 1. THE HARVEST POND IS CONSIDERED A PUBLIC WATER FOR WHICH TEMPORARY DRAWDOWN IS REGULATED UNDER MN STATUTE 103G.408. ANY DEWATERING SHALL ADHERE TO THE REQUIREMENTS OF THE CITY, DISTRICT, AND STATE.
- 2. MNDOT SECTIONS 2573 STORMWATER MANAGEMENT AND 3875 WATER TREATMENT APPLY.
- 3. IF DEWATERING IS NEEDED, THE CONTRACTOR MUST SUBMIT A PLAN FOR DEWATERING AND PUMPING THAT SPECIFIES HOW MUCH WATER THEY ANTICIPATE PUMPING, THE METHOD FOR DEWATERING, THE LOCATION OF DISCHARGE, AND PROVISIONS FOR MANAGING DISCHARGE OF TURBID OR SEDIMENT LADEN WATER.
- 4. DEWATERING WORK SHALL INCLUDE ALL WORK ITEMS NECESSARY TO COMPLETE REMOVAL OF POND WATER AS NECESSARY FOR THE WORK, INCLUDING BUT NOT LIMITED TO SEDIMENT CONTROL.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING SITE DISCHARGES, INCLUDING BUT NOT LIMITED TO PUMPING OF SEDIMENT LADEN WATER.
- 6. THE CONTRACTOR MAY DIVERT STREAM INFLOW TO THE HISTORIC CHANNEL ALIGNED ALONG THE WEST SIDE OF THE POND TO ALLOW THE STREAM TO BYPASS THE PUMP HARVEST POND. NOTE THAT USE OF THIS CHANNEL HAS NOT BEEN TESTED. MEANS OF DIVERSION TO BE REVIEWED BY THE PROJECT ENGINEER. DIVERSION OF FLOW IS INCIDENTAL TO DEWATERING (MNDOT 2573.601).
- 7. THE HARVEST PONDS PUMPING SYSTEM MAY BE UTILIZED, UPON REQUEST, TO DRAW THE POND DOWN TO AN ELEVATION OF APPROXIMATELY 872.9 FEET. PUMPED WATER WITH THE IN-PLACE SYSTEM MUST NOT BE SEDIMENT LADEN.

DATE

BY

REVISION

RYAN FLEMING

DATE: 10-30-2022

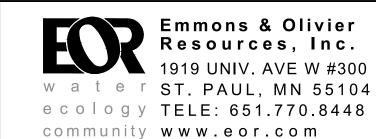
LICENSE# ----

RT SUBMISSION DATE: ND 10-30-2022 ER

DESIGN BY DRAWN BY RF BR

EOR PROJECT NO.

00041-0339



BROWN'S CREEK
WATERSHED DISTRICT
455 HAYWARD AVE N
OAKDALE, MN 55128

SETTLERS GLEN PUMP HARVEST POND
DREDGING

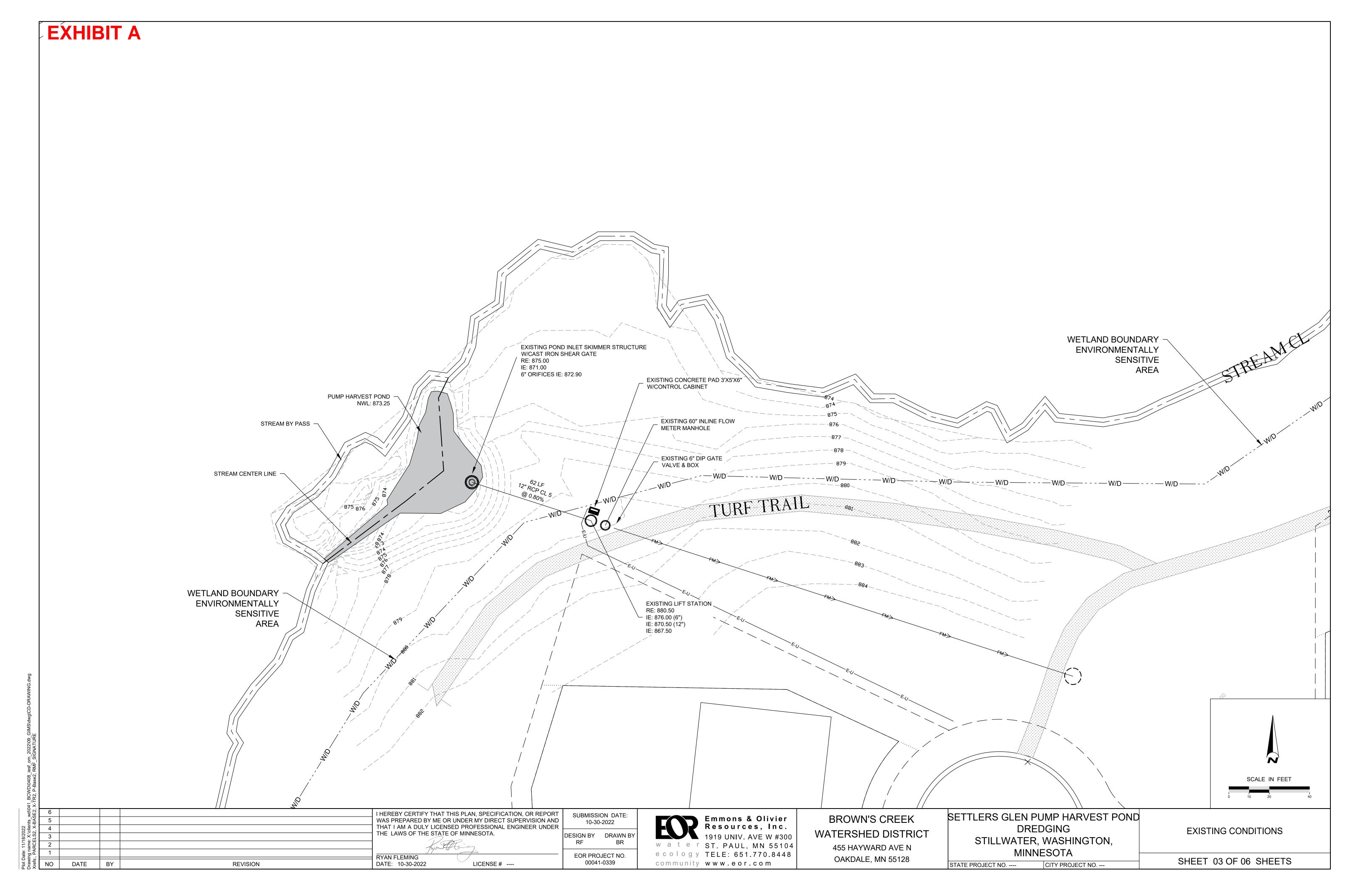
CITY PROJECT NO. ---

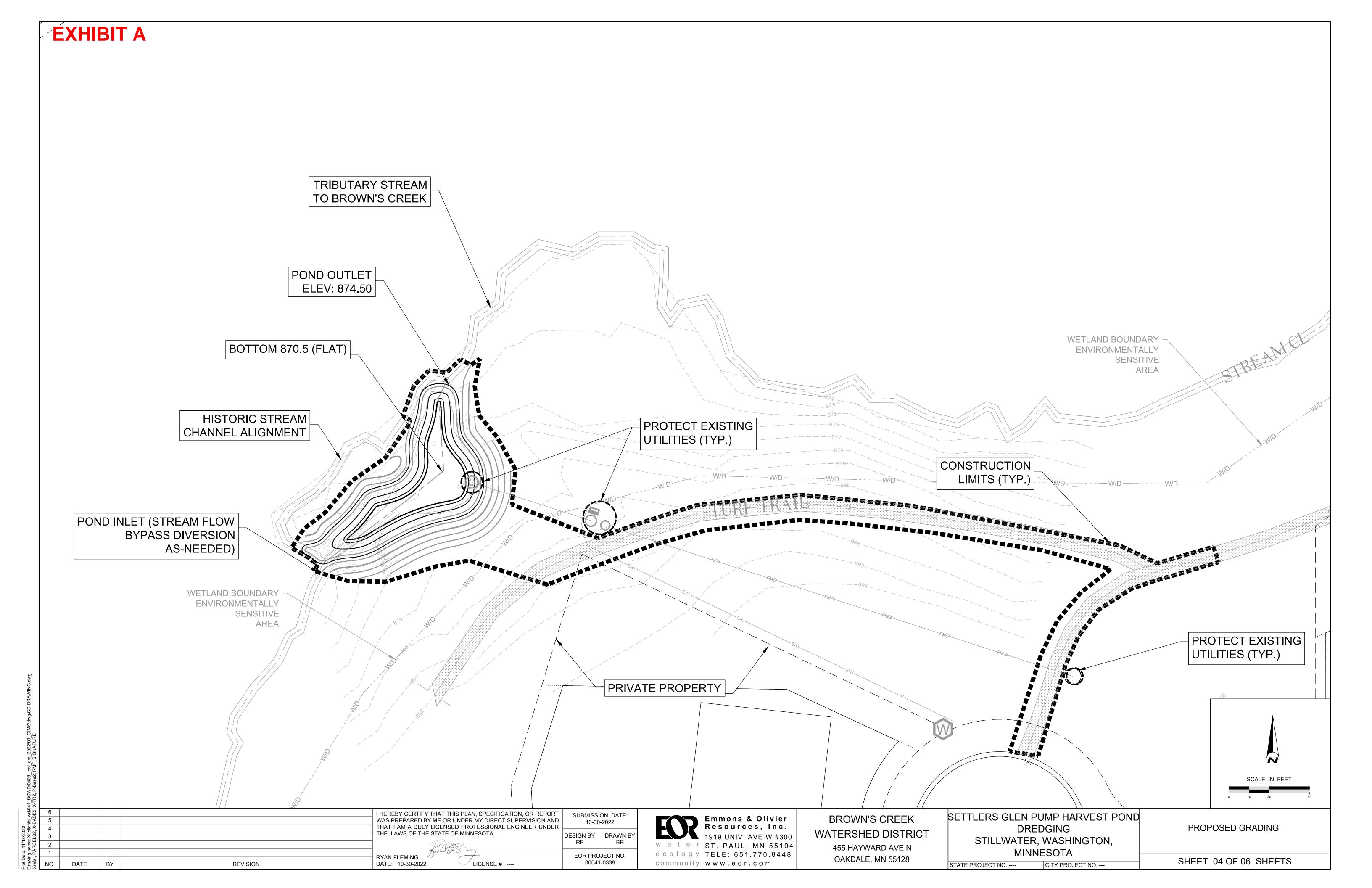
STILLWATER, WASHINGTON, MINNESOTA

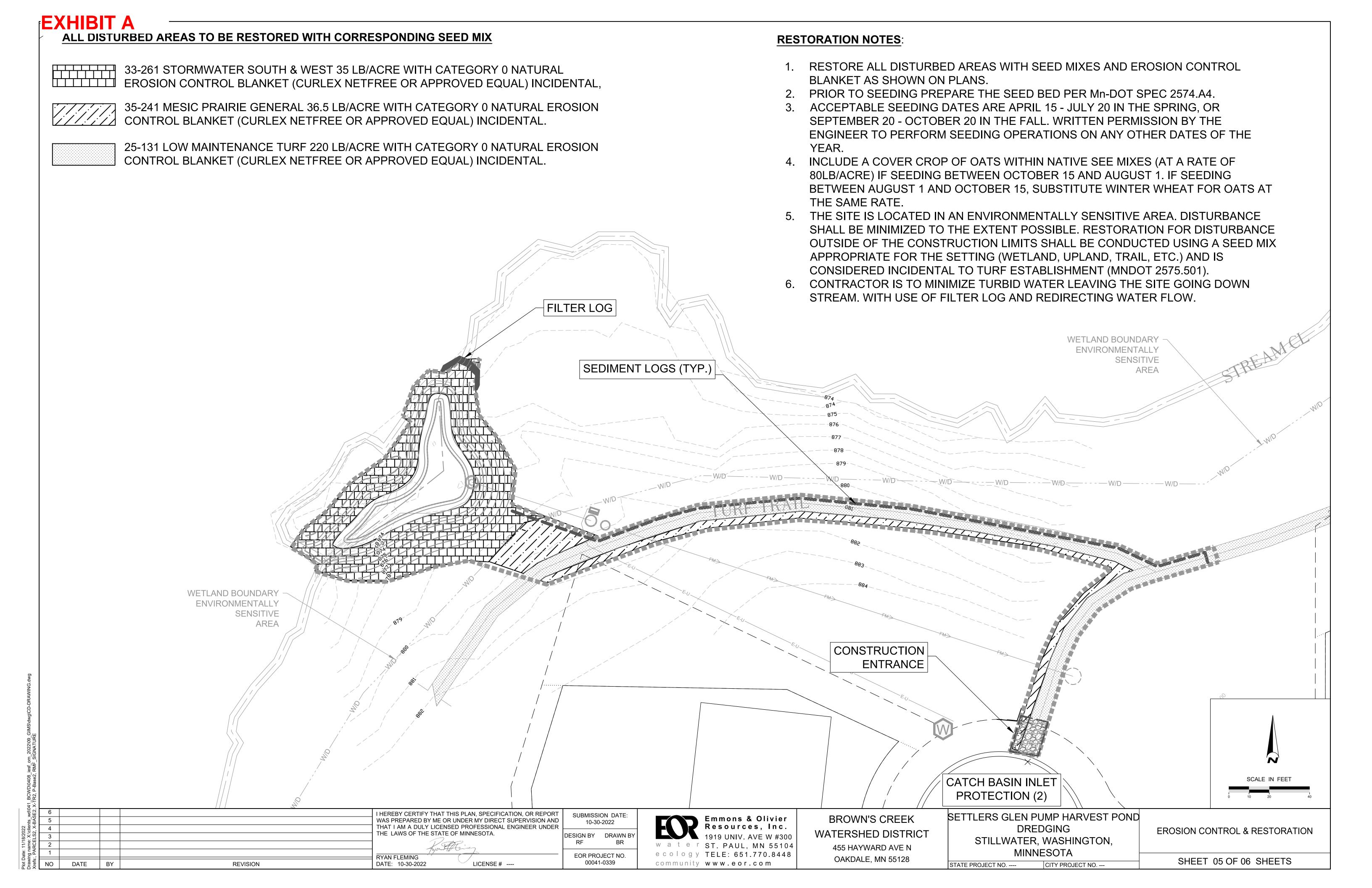
STATE PROJECT NO. ----

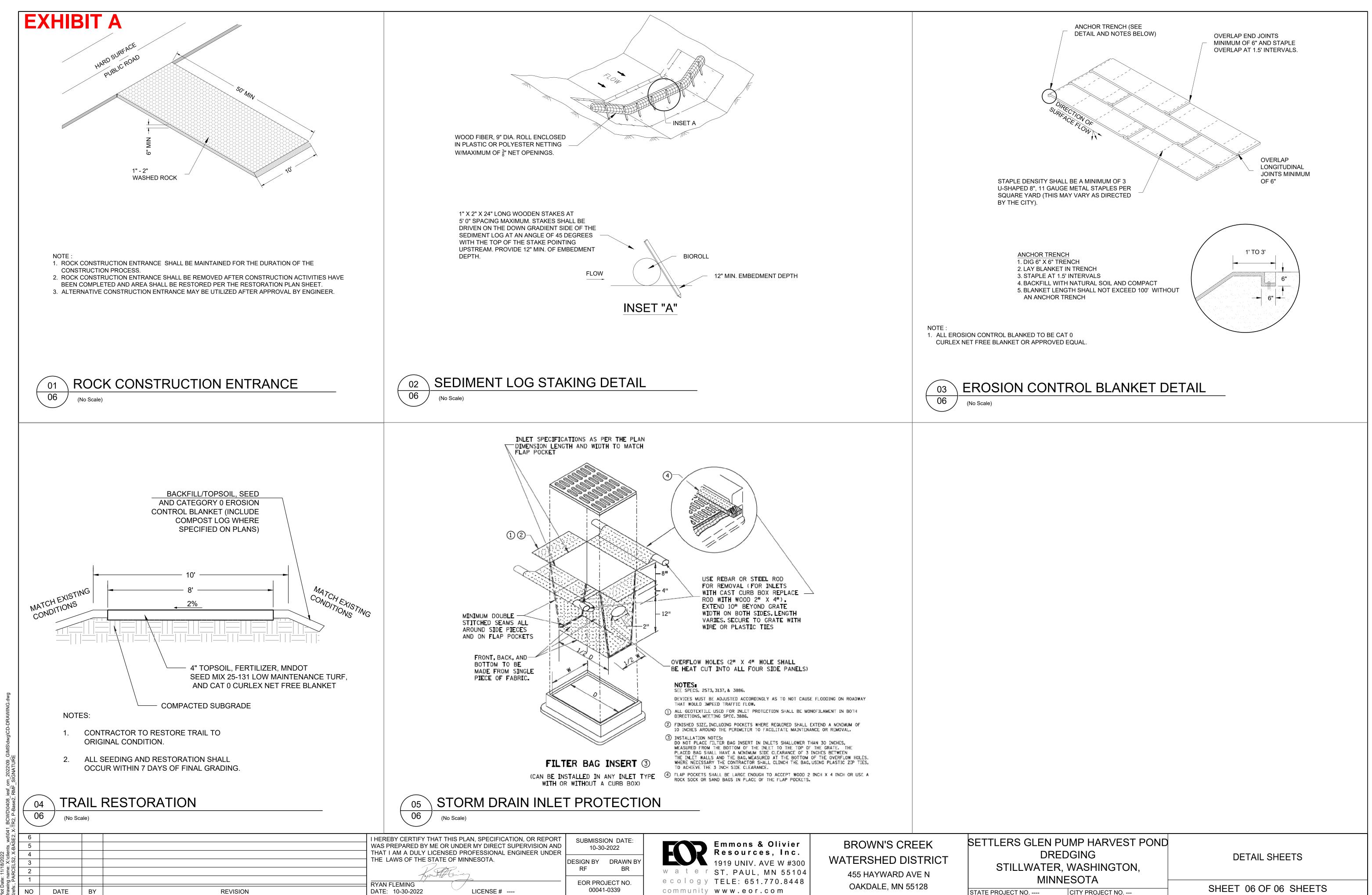
SEQ & NOTES

SHEET 02 OF 06 SHEETS









Plot Date: 11/18/2022

EXHIBIT B

QUOTE FORM FOR SETTLERS GLEN PUMP HARVEST POND DREDGING

QUOT	QUOTE FORM FOR SETTLERS GLEN PUMP HARVEST POND DREDGING						
Item No.	ltem	MNDOT Ref#	Unit	# Units	Unit Price	Total Price	
	Division 2: General / Grading						
1	Mobilization	2021.501	LS	1.00			
2	Muck Excavation (EV) (Including Disposal)	2105.507	CY	215.00			
Subtota							
Division 2: Miscellaneous Construction							
3	Stabilized Construction Exit (Install, Maintain & Removal)	2573.501	LS	1.00			
4	Storm Drain Inlet Protection(Install, Maintain & Removal)	2573.501	LS	1.00			
5	Sediment Control & Filter Log (Install, Maintain & Removal)	2573.503	LF	390.00			
6	Turf Establishment	2575.501	LS	1.00			
7	Dewatering and Pumping	2573.601	LS	1.00			
Subtota							

ATTACHMENT 1

COOPERATIVE AGREEMENT BETWEEN CITY OF STILLWATER AND BROWN'S CREEK WATERSHED DISTRICT FOR THE SETTLER'S GLEN IRON-SAND FILTRATION PROJECT

THIS AGREEMENT is made by and between the City of Stillwater (City), a Minnesota charter city and body corporate and politic, and the Brown's Creek Watershed District (BCWD), a watershed district with purposes and powers set forth in Minnesota Statutes chapters 103B and 103D (together, the Parties).

RECITALS

WHEREAS BCWD has authority under chapters 103B and 103D to design and implement programs and projects to improve water quality and protect water resources within the Brown's Creek watershed;

WHEREAS BCWD has an approved water-resources management plan pursuant to Minnesota Statutes chapter 103B, and in fulfillment of a goal of the plan, BCWD has completed a management plan for McKusick Lake in collaboration with the City of Stillwater and the Middle St. Croix Watershed Management Organization that calls for the removal of 148 pounds of phosphorous each year from the portion of the Brown's Creek watershed tributary to McKusick Lake;

WHEREAS on April 9, 2012, the BCWD Board of Managers ordered, in accordance with Minnesota Statutes section 103B.251, the construction of an iron-enhanced sand filter on an outlot dedicated to City on the plat for the Settler's Glen addition (the Outlot) and three properties owned by private parties (the Private Properties) to reduce phosphorus in McKusick Lake (the Project). The preliminary site plan for the Project is attached to and incorporated into this agreement as Exhibit A;

WHEREAS City supports the implementation of the McKusick Lake management plan and wishes to facilitate BCWD's construction, operation and maintenance of the Project;

WHEREAS City holds an easement for a trail on two of the Private Properties (the Trail Easement, attached to and incorporated into this agreement as Exhibit B) and maintains an unpaved trail thereon (the Trail), and City holds a drainage and utility easement over each of the Private Properties (the Drainage Easement, as shown in the plat attached to and incorporated into this agreement as Exhibit C) (together, the Easements) and the portions of the Project to be constructed on the Private Properties are entirely within the Drainage Easement, as shown in Exhibit A;

WHEREAS City has constructed and presently maintains stormwater-management ponds on the Outlot and Drainage Easement, as shown in Exhibit A (the Facilities); and

WHEREAS City and BCWD acknowledge that BCWD's ability to achieve Project objectives depends on the Parties' continued cooperation.

NOW, THEREFORE, IT IS AGREED by and between City and BCWD that they enter into this Cooperative Agreement to document their understanding as to the scope of the Project, affirm their commitments as to responsibility for tasks to be undertaken, grant and assign the property rights necessary, establish procedures for performing these tasks and fulfilling responsibilities, and facilitate communication and cooperation to ensure successful completion of the Project to improve water quality in McKusick Lake.

AGREEMENT

- 1. CITY'S RIGHTS AND COMMITMENTS AND GRANT AND ASSIGNMENT OF RIGHTS FOR ACCESS, CONSTRUCTION AND MAINTENANCE
 - A. City has the right to review and comment on the 90 percent-complete plans and specifications for the Project provided in accordance with paragraph 2A of this agreement and, within 30 days of receipt of the plans and specifications from BCWD, provide comments.
 - B. BCWD's construction of the Project will entail excavation, grading and filling; alteration of topography, vegetation, hydrology and stormwater treatment systems; construction of an upstream harvesting basin and pump lift station with associated intake unit; integration of an iron-sand filtration system into the Facilities; installation of an under-drain treated-discharge outlet; and trenching for installation of conduit under the Trail. After completion of construction, maintenance of the Project will entail assessment of the effectiveness and maintenance of the Project, and may involve reconstruction of the Project to restore its effectiveness. For these purposes, the City hereby:
 - i. grants to BCWD, its contractors, agents and assigns an easement to access and use the access, construction and maintenance areas of the Outlot, as delineated on Exhibit A;
 - ii. authorizes the BCWD, its contractors, agents and assignees to utilize City's rights under the Easements to access and use the access, construction and maintenance areas of the Easements, as delineated on Exhibit A. City's authorization hereunder is nonexclusive, except that BCWD, on reasonable notice to City, may temporarily restrict or preclude public access to the Trail Easement in the access, construction and maintenance areas to ensure safety while construction or maintenance activities are under way.
 - C. City will forbear from any activity that interferes with the BCWD's ability to exercise its rights or meet its obligations under this agreement, including but not limited to City transfer of ownership of the Outlot or vacation of the Easements. City will facilitate BCWD's reasonable exercise of its rights under this agreement with regard to access to and use of the Outlot and Easements. City will not take any action within the Outlot and Easements areas that could reasonably be expected to diminish the effectiveness or function of the Project for the purposes intended, and after notice of completion of construction of the Project from BCWD, City will maintain the Trail in a manner that

- avoids altering flow through the conduits constructed under the Trail as part of the Project.
- D. City, as owner of the Outlot and Easements, will cooperate with BCWD's and its contractor's efforts to obtain permits and approvals needed for the Project and will serve as a co-applicant for permits and approvals. City, in its regulatory capacity, will facilitate the proper and efficient processing of any permits and approvals needed for the Project.
- E. On completion of construction of the Project, City will retain ownership of the improved Facilities and will maintain the Facilities in coordination with BCWD's maintenance of the Project as provided in paragraph 2.C.iv of this agreement.
- F. City will cooperate with BCWD in all communications and outreach to property owners affected by the Project.

2. BCWD'S RIGHTS AND COMMITMENTS

- A. BCWD, at its sole expense, will prepare plans and specifications for the Project and submit the 90 percent-complete plans and specifications to City for review in accordance with paragraph 1A of this agreement. BCWD will ensure that plans and specifications and the Project, when constructed, are compatible with the Easements and this agreement.
- B. As between the Parties, BCWD will obtain all necessary permits, licenses and approvals, including approval of a wetland replacement plan as necessary, and will ensure that the Project is completed in accordance with applicable law and regulatory standards and criteria.
- C. BCWD will implement the Project as follows:
 - i. BCWD will prepare or have prepared on its behalf construction documents and will ensure that such documents provide for the restoration of the Outlot and Easements in accordance with the Easements and this agreement;
 - ii. BCWD will contract, in accordance with applicable law, for the construction of the Project. BCWD will require that the contractor for the Project name City as an additional insured for general liability and provide a certificate showing same prior to construction;
 - iii. BCWD, or the BCWD engineer on BCWD's behalf, will oversee the construction of the Project. BCWD may adjust the plans and specifications for the Project during construction, as long as the revised plans do not require BCWD to exceed the scope of the rights granted under this agreement;
 - iv. On completion of construction of the Project, BCWD will restore the access, construction and maintenances areas of the Outlot and Easements to a safe and functional condition, consistent with the Easements. In addition, on completion of construction of the Project and during the effective period of this agreement,

BCWD will operate and maintain the Project, contingent on City's facilitating reasonable access for such purposes as provided herein and in coordination with City's maintenance of the Facilities. On termination of this agreement, BCWD will ensure that the Project site is restored to a condition consistent with the use of the Outlot and Easements.

- D. Until completion of construction, if BCWD, in its judgment, should decide that the Project is infeasible, BCWD, at its option, may declare the agreement rescinded and annulled. If BCWD so declares, all obligations herein, performed or not, will be voided; BCWD will return the Outlot and Easements materially to their prior condition or to a condition agreed on by City and BCWD.
- **3.** Costs. BCWD will be responsible for all costs of design and construction of the Project and the costs of the production of publicity, education and outreach materials related to the Project. BCWD will be responsible for the costs and fees associated with complying with regulatory requirements applicable to the Project, including the costs of any wetland replacement required by law, except that City will assess no fee to BCWD for City permits required for the Project, if any. BCWD will be responsible for the costs of maintenance and, if necessary, reconstruction in whole or part of the Project. City is and will remain responsible for the cost of maintenance of the Facilities during the term of and after termination of this agreement. Each of the Parties will bear its own administrative costs of fulfilling its responsibilities and obligations under this agreement.
- **4. Publicity and Endorsement.** BCWD and City will collaborate on the development of educational and informational signage pertinent to the Project, and BCWD, at its cost, may develop, produce and distribute educational, outreach and publicity materials related to the Project, and may install, maintain, replace or remove signage on the Outlot related to the Project. All such signage and materials, whether produced by BCWD or City, will include acknowledgement of the Clean Water Legacy funding provided for the Project in accordance with Laws of Minnesota 2009, Chapter 172, Article 5, Section 10. For purposes of this paragraph, "publicity" includes notices, informational printed materials, press releases, research reports, signs and other public notices prepared by or on behalf of BCWD.
- **5. INDEPENDENT RELATIONSHIP; LIABILITY.** This agreement does not create a joint powers board or organization within the meaning of Minnesota Statutes section 471.59. Each party agrees that it will be responsible only for its own acts and the results thereof to the extent authorized by the law and will not be responsible for the acts or omissions of the other party and the results thereof. This agreement creates no right in and waives no immunity, defense or liability limitation with respect to any third party. As between the Parties, only contract remedies are available for a breach of this agreement.

City and BCWD enter this agreement solely for the purposes of construction and maintenance of the Project to improve water quality in Brown's Creek and McKusick Lake. BCWD does not have, has not had, and will not be deemed to have acquired by entry into or performance under this agreement, any form of interest or ownership in or to any portion of the Outlot or Easements. BCWD does not exercise, has not exercised, and will not by entry into or performance under this agreement be deemed to have exercised, any form of control over the use, operation or

management of any portion of the Outlot or Easements or property adjacent to the Project prior to the commencement of construction of the Project, so as to have rendered BCWD a potentially responsible party for any contamination under state or federal law.

- 7. TERM AND TERMINATION. This agreement becomes effective when fully executed. The agreement will remain in force for 10 years, and will renew automatically for an additional five-year term and renew again every five years on the anniversary of the first renewal unless terminated by mutual agreement of the Parties or otherwise in accordance with the terms of this agreement. Any responsibility or obligation that has come into being before expiration, specifically including obligations under sections 3 and 5 above, will survive expiration.
- **8. COMPLETE AGREEMENT.** This agreement, as it may be amended in writing, constitutes the entire agreement between the Parties. Any amendment to this agreement must be in writing and will not be effective until it has been executed and approved by the same parties who executed and approved the original agreement or their successors in office.
- **9. NOTICE; COORDINATION**. The Parties designate the following authorized representatives, each to serve as the liaison to the other party for purposes of coordinating inspection, construction oversight and maintenance of the Project as provided in this agreement. Any written communication required under this agreement will be addressed to the other party as follows, except that either party may change its address for notice by so notifying the other party in writing:

To City:

Director

Public Works/Engineering

City of Stillwater

Stillwater MN 55155-4025

To BCWD:

Administrator

Brown's Creek Watershed District 1380 West Frontage Road, Hwy 36

Stillwater, MN 55082

10. WAIVERS. The waiver by City or BCWD of any breach or failure to comply with any provision of this agreement by the other party will not be construed as nor will it constitute a continuing waiver of such provision or a waiver of any other breach of or failure to comply with any other provision of this agreement.

IN WITNESS WHEREOF, the parties have executed this Agreement, intending to be legally bound.

5

BROWN'S CREEK WATERSHED DISTRICT,

a political subdivision of the State of Minnesota

By Craig Leiser

Its President Dated: 3//

City of Stillwater -Brown's Creek Watershed District

APPROVED AS TO FORM AND EXECUTION

BCWD Counsel

CITY OF STILLWATER,

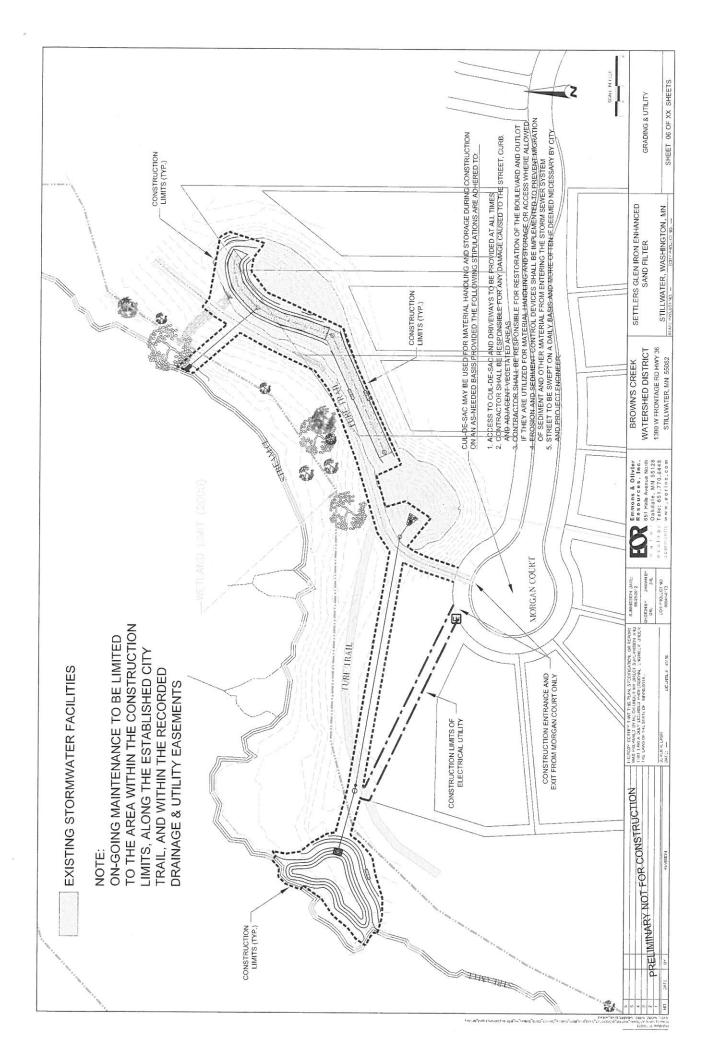
a home rule charter city

By Ken Harycki

Its Mayor Dated:

APPROVED AS TO FORM AND EXECUTION

6



WASHINGTON COUNTY, MINNESOTA,

WASHINGTON COUNTY, MINNESOTA,

MOLLY F, O'ROURKE, AUDITOR-TREASURER

BY PAULICIAN CHOO

DEPUTY

3480408

Office of the County Recorder Washington County, MN

Certified filed and/or recorded on: 2004/11/19 2:34:00 PM

3480408



DECLARATION FOR CREATION AND MAINTENANCE OF TRAIL EASEMENT

TESTEWART TITLE-JW 105707

This Declaration for Creation and Maintenance of Trail Easement (sometimes hereinafter referred to as "Declaration") is made effective this 18 day of November, 2004, between U.S. Home Corporation, a Delaware corporation (hereinafter referred to as "U.S. Home"), and the City of Stillwater, a Minnesota municipal corporation (hereinafter referred to as "City").

WHEREAS, U.S. Home is the owner of certain real property located in Washington County, Minnesota, legally described on Exhibit A attached hereto and incorporated herein (hereinafter referred to as the "Burdened Property"); and

WHEREAS, U.S. Home and City desire, as of this date, to create the trail easement as hereinafter set forth.

NOW, THEREFORE, the undersigned, U.S. Home Corporation, a Delaware corporation, hereby declares that the Burdened Property shall be held, sold and conveyed subject to the following easements, covenants, conditions, agreements and restrictions which are for the purpose of providing and maintaining certain trail facilities upon the Burdened Property for the benefit of the Benefited Parties. The easement which is hereby created shall run with the land, shall be binding upon and run with the land affected, and shall be binding upon all parties having any right, title or interest in the Burdened Property so described, or any part thereof, their heirs, successors and assigns.

DEFINITIONS

- 1. <u>Burdened Owner.</u> One or more persons or entities holding a fee simple interest in the Burdened Property described on Exhibit A. As of the date of this Declaration, U.S. Home Corporation, a Delaware corporation, is the owner of the Burdened Property.
 - 2. <u>Benefited Parties.</u> The city and members of the public at large.
- 3. <u>Trail Easement Area.</u> The real property legally described on Exhibit B and graphically depicted on Exhibit C, both attached hereto and incorporated herein.

4. <u>Trail Easement.</u> The right to construct, reconstruct, maintain and repair the trail facilities over and across the Trail Easement Area for the purposes of pedestrian traffic, specifically excluding motor vehicle traffic and/or parking, except as granted below.

COVENANTS FOR CONSTRUCTION, RECONSTRUCTION, MAINTENANCE AND REPAIR

- 1. <u>Construction by U.S. Home.</u> U.S. Home agrees to construct the trail facilities as necessary to utilize the Trail Easement and as are required by City upon the Trail Easement Area.
- 2. <u>Construction and Repair by City.</u> Subject to the initial construction of trail facilities within the Trail Easement Area by U.S. Home, the city shall be responsible for the construction, reconstruction, maintenance and repair of the trail facilities located within the Trail Easement Area. In furtherance thereof and notwithstanding anything contained herein to the contrary, the City, its employees and/or agents shall have the right to enter into the Trail Easement Area with motorized vehicles.



EASEMENT

- 1. <u>Trail Easement.</u> The Burdened Property shall be subject to and burdened by the right of Benefited Parties to pass over and utilize the trail facilities as may be established by U.S. Home upon the Trail Easement Area. No motor vehicle traffic and/or parking rights are hereby granted, except to the extent necessary to comply with the Construction and Repair covenants above.
- 2. <u>Interference with Easement.</u> No obstruction which would prevent, restrict or otherwise inhibit the passage of pedestrians or maintenance equipment over any portion of the Trail Easement Area shall be erected, condoned or permitted to endure by the Burdened Owner, nor shall any other conduct, passive or affirmative, be permitted which would in any manner restrict the easement rights granted pursuant hereto.

MISCELLANEOUS

- 1. Restriction. The Burdened Owner, its successors or assigns, shall not grant any easement for the purpose set forth in this Declaration for the benefit of any other real property or other person or entity upon the Trail Easement Area.
- 2. <u>Effect.</u> The easements, covenants, conditions, restrictions and other provisions herein contained shall be perpetually binding and enforceable upon the Burdened Property herein described, its respective owners, heirs, successors and assigns forever and shall attach to and run with the land.
- 3. <u>Severability.</u> Invalidation of any one or more of the provisions herein contained shall not in any way affect the validity of the others, which shall remain in full force and effect.

IN WITNESS WHEREOF, the undersigned have caused this instrument to be executed as of the date and year first above written.

U.S. HOME CORPORATION, a Delaware corporation

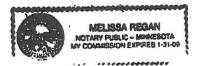
CITY OF STILLWATER, a Minnesota municipal corporation

John J. Liberacki
Its: Vice President

Its: Main.

STATE OF MINNESOTA)
ss
COUNTY OF HENNEPIN)

The foregoing was acknowledged before me this VIII day of November, 2004, by John J. Liberacki, Vice President of U.S. Home Corporation, a corporation under the laws of Delaware, on behalf of the corporation.



Meh Dou W. Rogen Notary Public

STATE OF MINNESOTA)

WASHINGTON) ss:

COUNTY OF HEREE)

The foregoing was acknowledged before me this May of Mountain 2004, by Goy & Hernste, the Mayor of the City of Stillwater, a municipal corporation under the laws of Minnesota, on behalf of the corporation.

Jugan J. Oblin Notary Public

THIS DOCUMENT WAS DRAFTED BY: Brett A. Perry, Esq. Messerli & Kramer P.A. 1800 Fifth Street Towers 150 South Fifth Street Minneapolis, MN 55402 (612) 672-3600

SUSAN L. O'BRIEN-MOORE
NOTARY PUBLIC
My Commission Expires 1-31-2005

EXHIBIT A

Burdened Property Legal Description

Lots 1 through 2, inclusive, Block 1; All in Settlers Glen 5th Addition, Washington County, Minnesota.

EXHIBIT B

Trail Easement Area Legal Description

An easement for trail purposes over, under and across the following described property:

Lots 1 and 2, Block 1, Settlers Glen 5th Addition, according to the recorded plat thereof, Washington County, Minnesota.

Said easement lies northwesterly of the following described line:

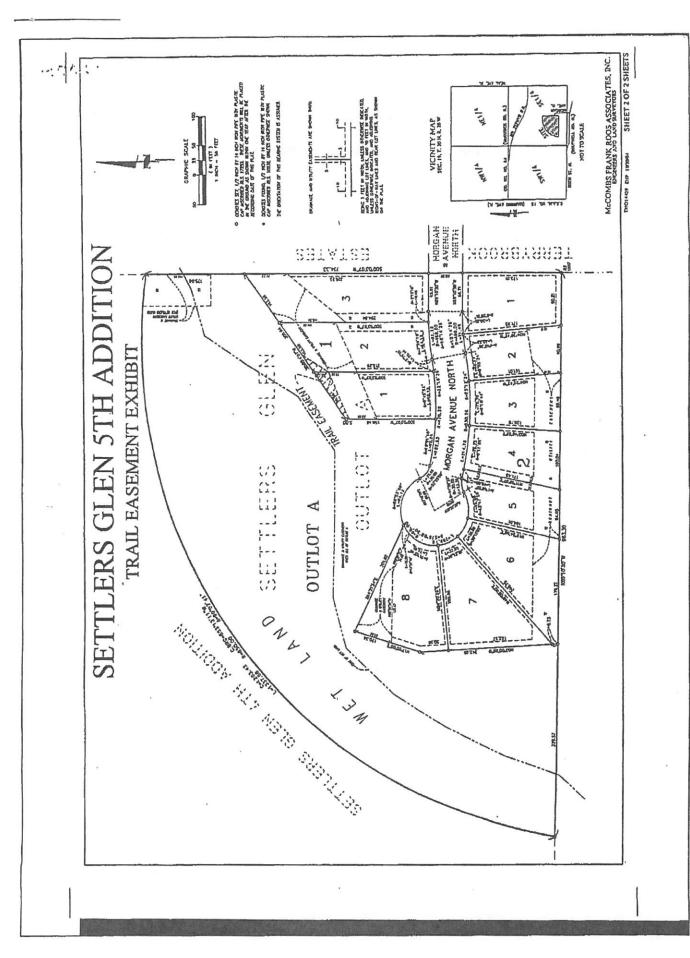
Beginning on a point on the west line of said Lot 1 distant 5 feet south of the northwest corner thereof; thence northeasterly to a point on the east line of said Lot 1 distant 26 feet south of the northeast corner of said Lot 1; thence northeasterly to a point on the northerly line of said Lot 2 distant 36 feet northeasterly of said northeast corner of said Lot 1 and said line there terminating.

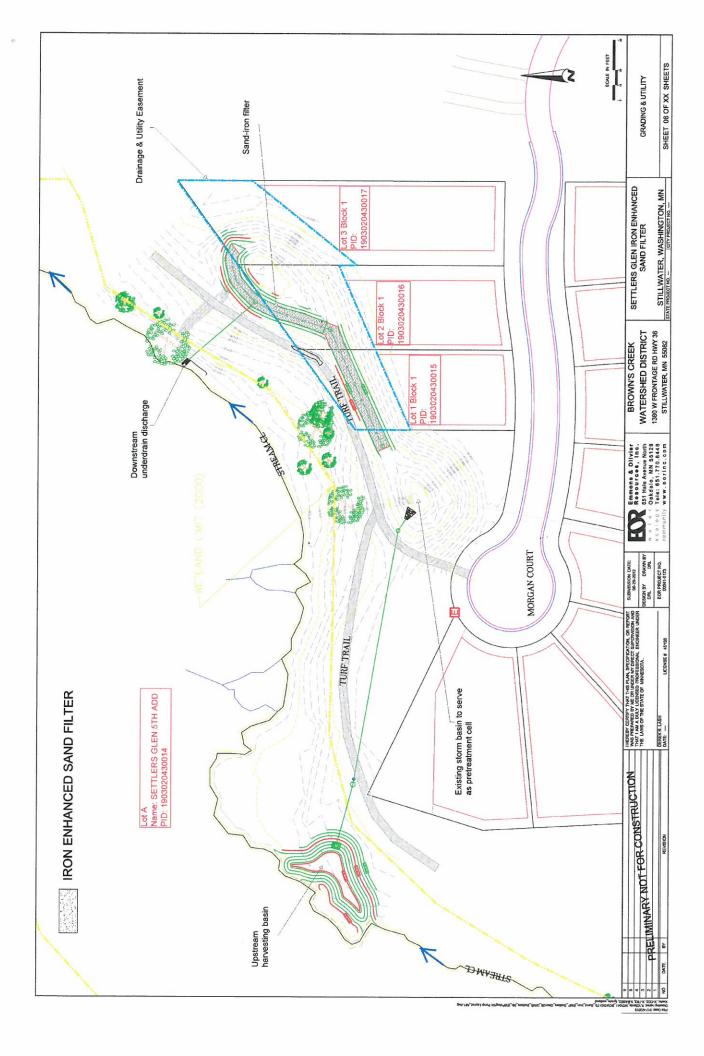
EXHIBIT C

Trail Easement Area Graphic Depiction

588645.1

10 1 to 1 to





memo



Project Name | Settlers Glen Iron-Enhanced Sand Filter

To / Contact info | Karen Kill, BCWD Administrator

Cc / Contact info | Ryan Fleming, PE

From / Contact info | Stu Grubb, PG; Matt Hegland, GIT

Regarding | Sediment analysis and disposal options

Background

Sediment removed from stormwater ponds must be analyzed to determine suitable disposal options. EOR collected and analyzed soils samples from the settling pond in accordance with the procedures shown in the MPCA guidance document "Managing Stormwater Sediment Best Management Practices Guidance" (May 2017).

Fieldwork and Lab Analyses

Brian Rucker collected the samples on November 2, 2022. Sample 1 was collected at the inlet to the filter and Sample 2 was collected at the outlet from the filter. Samples were collected with a PVC suction sampler.

Sediment samples were delivered to Pace Analytical Labs for analysis of PAH's (extended list), copper, and arsenic. Lab reports and analytical results are attached.

Results and Discussion

Laboratory analytical results are shown in Table 1. The results were compared to residential and industrial soil reference values (SRV's) published by MPCA. The arsenic concentrations of both samples were above the SRV's, and the PAH Equivalents were well above the SRV for Sample 2. Because the concentrations exceed the residential SRV's for one or more analyte, the sediment is a regulated solid waste. The MPCA guidance states the material should be sent to a Municipal Solid Waste facility, or a landfill with a liner and leachate collection system.

Phosphorous was analyzed to determine the quantity of phosphorous removed by the sediment basin. Phosphorus is not considered hazardous to human health, so no SRV has been established.

Table 1 - Analytical Concentrations and Residential Soil Reference Values (SRV)

Analyte	Sample 1 (Upstream)	Sample 2 (Downstream)	SRV
Arsenic (mg/kg)	16.9	16.2	9
Copper (mg/kg)	17.1	17.9	100
PAH (BAP Equivalents)	0.842	7.596	2
Phosphorous (mg/kg)	2630	2520	Not applicable





November 07, 2022

Brian Rucker Emmons & Oliver Recources 1919 University Ave W Suite 300 Saint Paul, MN 55128

RE: Project: Sediment

Pace Project No.: 10631212

Dear Brian Rucker:

Enclosed are the analytical results for sample(s) received by the laboratory on October 26, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services Duluth, MN
- Pace Analytical Services Minneapolis

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

Sincerely,

Yeng Ozawa yeng.ozawa@pacelabs.com (612)607-1700

Project Manager

Young On

Enclosures

cc: Accounting, Emmons & Oliver Resources Beth Clubb, Emmons & Olivier Resources





CERTIFICATIONS

Project: Sediment
Pace Project No.: 10631212

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

A2LA Certification #: 2926.01*

1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air

Lab

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009*

Alaska DW Certification #: MN00064 Arizona Certification #: AZ0014* Arkansas DW Certification #: MN00064 Arkansas WW Certification #: 88-0680 California Certification #: 2929 Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Tribal Water Systems+Wyoming DW

Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062

Louisiana DW Certification #: MN00064 Maine Certification #: MN00064* Maryland Certification #: 322 Michigan Certification #: 9909

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086*

Minnesota Certification #: 027-053-137*

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240* Mississippi Certification #: MN00064 Missouri Certification #: 10100 Montana Certification #: CERT0092 Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*

North Carolina DW Certification #: 27700 North Carolina WW Certification #: 530 North Dakota Certification (A2LA) #: R-036 North Dakota Certification (MN) #: R-036

Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*

Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563*
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*

Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

*Please Note: Applicable air certifications are denoted with

an asterisk (*).

Pace Analytical Services, LLC - Duluth MN

4730 Oneota Street, Duluth, MN 55807 Minnesota Certification #: 027-137-152

Minnesota Dept of Ag Approval: via Minnesota 027-137-

152

Minnesota Petrofund Registration #: 1240 Montana Certification #: CERT0102 Nevada Certification #: MN00037 North Dakota Certification #: R-105 Wisconsin Certification #: 999446800 Wisconsin Dept of Ag Certification: 480341





SAMPLE SUMMARY

Project: Sediment
Pace Project No.: 10631212

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10631212001	Sample 1-(Upstream)	Solid	10/26/22 10:30	10/26/22 12:00
10631212002	Sample 2-(Downstream)	Solid	10/26/22 10:31	10/26/22 12:00



SAMPLE ANALYTE COUNT

Project: Sediment
Pace Project No.: 10631212

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10631212001	Sample 1-(Upstream)	EPA 365.1	DS3	1	PASI-DU
		EPA 6010D	IP	2	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	SP2	18	PASI-M
		EPA 8270E by SIM	KJ3	39	PASI-M
10631212002	Sample 2-(Downstream)	EPA 365.1	DS3	1	PASI-DU
		EPA 6010D	IP	2	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	SP2	18	PASI-M
		EPA 8270E by SIM	KJ3	39	PASI-M

PASI-DU = Pace Analytical Services - Duluth, MN PASI-M = Pace Analytical Services - Minneapolis



Project: Sediment
Pace Project No.: 10631212

Date: 11/07/2022 10:17 AM

Sample: Sample 4 (Unetroom)	Lab ID: 400	21212001	Collected: 10/26/22	10.00	Received: 10	1/26/22 12:00	Matrix. Calid	
Sample: Sample 1-(Upstream)	Lab ID: 1063						Matrix: Solid	
Results reported on a "dry weight"	basis and are adj	usted for p	ercent moisture, sai	npie s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
865.1 Phos, Total Solids DU	Analytical Meth	nod: EPA 36	5.1 Preparation Meth	nod: SI	И 4500-Р В			
	Pace Analytica		•					
Discouring the same	•		· ·	_	44/00/00 45 40	44/00/00 40 05	7700 44 0	Do
Phosphorus	2630	mg/kg	38.0	5	11/02/22 15:10	11/03/22 16:25	7723-14-0	P6
6010D MET ICP	Analytical Meth	nod: EPA 60	10D Preparation Met	thod: E	PA 3050B			
	Pace Analytica	l Services -	Minneapolis					
Arsenic	16.9	mg/kg	2.8	1	11/02/22 16:58	11/03/22 13:39	7440-38-2	
Copper	17.1	mg/kg	1.4	1		11/03/22 13:39		
Dry Weight / %M by ASTM D2974	Analytical Meth							
	Pace Analytica	l Services -	Minneapolis					
Percent Moisture	66.4	%	0.10	1		10/31/22 15:20)	N2
8270E MSSV PAH by SIM	Analytical Meth	nod: EPA 82	70E by SIM Prepara	tion Me	ethod: EPA 3546			
	Pace Analytica							
	•		'			/ /		
Acenaphthene	ND	ug/kg	29.7	1		10/28/22 20:56		
Acenaphthylene	ND	ug/kg	29.7	1		10/28/22 20:56		
Anthracene	35.0	ug/kg	29.7	1		10/28/22 20:56		
Benzo(a)anthracene	108	ug/kg	29.7	1		10/28/22 20:56		
Benzo(a)pyrene	117	ug/kg	29.7	1		10/28/22 20:56		
Benzo(b)fluoranthene	162	ug/kg	29.7	1		10/28/22 20:56		
Benzo(g,h,i)perylene	89.4	ug/kg	29.7	1		10/28/22 20:56		
Benzo(k)fluoranthene	66.9	ug/kg	29.7 29.7	1 1		10/28/22 20:56 10/28/22 20:56		
Chrysene	120	ug/kg	29.7 29.7	1		10/28/22 20:56		
Dibenz(a,h)anthracene Fluoranthene	ND 236	ug/kg	29.7 29.7	1		10/28/22 20:56		
Fluorene	ND	ug/kg ug/kg	29.7	1		10/28/22 20:56		
Indeno(1,2,3-cd)pyrene	95.7	ug/kg	29.7	1		10/28/22 20:56		
Naphthalene	ND	ug/kg ug/kg	29.7	1		10/28/22 20:56		
Phenanthrene	103	ug/kg ug/kg	29.7	1		10/28/22 20:56		
Pyrene	174	ug/kg	29.7	1		10/28/22 20:56		
Surrogates		ug/itg	20.7	•	10/21/22 00:00	10/20/22 20:00	120 00 0	
2-Fluorobiphenyl (S)	77	%.	59-125	1	10/27/22 09:53	10/28/22 20:56	321-60-8	
o-Terphenyl-d14 (S)	82	%.	65-125	1	10/27/22 09:53	10/28/22 20:56	1718-51-0	
3270E MSSV CPAH by SIM	Analytical Meth	nod: EPA 82	270E by SIM Prepara	tion Me	ethod: EPA 35500	2		
	Pace Analytica					-		
Acenaphthene	ND	ug/kg	29.6	1	10/28/22 12:48	11/01/22 01:55	83-32-9	
Acenaphthylene	35.9	ug/kg	29.6	1		11/01/22 01:55		
Anthracene	ND	ug/kg	29.6	1		11/01/22 01:55		
Benzo(a)anthracene	176	ug/kg	29.6	1		11/01/22 01:55		
Benzo(a)pyrene	233	ug/kg	29.6	1		11/01/22 01:55		
Benzo(e)pyrene	146	ug/kg	29.6	1		11/01/22 01:55		
Benzo(g,h,i)perylene	138	ug/kg	29.6	1		11/01/22 01:55		
Benzofluoranthenes (Total)	393	ug/kg	88.7	1	10/28/22 12:48	11/01/22 01:55		N2
Carbazole	ND	ug/kg	29.6	1		11/01/22 01:55		



Project: Sediment
Pace Project No.: 10631212

Date: 11/07/2022 10:17 AM

Sample: Sample 1-(Upstream)	Lab ID: 106		Collected: 10/26/2				Matrix: Solid	
Results reported on a "dry weight"	' basis and are adj	usted for p	ercent moisture, sa	imple si	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8270E MSSV CPAH by SIM	Analytical Meth	nod: EPA 82	270E by SIM Prepara	ation Me	thod: EPA 3550C	;		
	Pace Analytica	l Services -	Minneapolis					
2-Chloronaphthalene	ND	ug/kg	29.6	1	10/28/22 12:48	11/01/22 01:55	91-58-7	
Chrysene	209	ug/kg	29.6	1	10/28/22 12:48	11/01/22 01:55	218-01-9	
Dibenz(a,h)acridine	ND	ug/kg	29.6	1	10/28/22 12:48	11/01/22 01:55	226-36-8	
Dibenz(a,h)anthracene	33.0	ug/kg	29.6	1	10/28/22 12:48	11/01/22 01:55	53-70-3	
Dibenz(a,j)acridine	ND	ug/kg	29.6	1	10/28/22 12:48	11/01/22 01:55	224-42-0	
Dibenzo(a,e)pyrene	78.9	ug/kg	29.6	1	10/28/22 12:48	11/01/22 01:55	192-65-4	
Dibenzo(a,h)pyrene	43.8	ug/kg	29.6	1	10/28/22 12:48	11/01/22 01:55	189-64-0	
Dibenzo(a,i)pyrene	ND	ug/kg	29.6	1	10/28/22 12:48	11/01/22 01:55	189-55-9	
Dibenzo(a,I)pyrene	ND	ug/kg	29.6	1	10/28/22 12:48	11/01/22 01:55	191-30-0	
7H-Dibenzo(c,g)carbazole	ND	ug/kg	29.6	1	10/28/22 12:48	11/01/22 01:55	194-59-2	
Dibenzofuran	ND	ug/kg	29.6	1	10/28/22 12:48	11/01/22 01:55	132-64-9	
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	29.6	1	10/28/22 12:48	11/01/22 01:55	57-97-6	
Fluoranthene	365	ug/kg	29.6	1	10/28/22 12:48	11/01/22 01:55	206-44-0	
Fluorene	ND	ug/kg	29.6	1	10/28/22 12:48	11/01/22 01:55	86-73-7	
ndeno(1,2,3-cd)pyrene	143	ug/kg	29.6	1	10/28/22 12:48	11/01/22 01:55	193-39-5	
3-Methylcholanthrene	ND	ug/kg	29.6	1	10/28/22 12:48	11/01/22 01:55	56-49-5	
5-Methylchrysene	ND	ug/kg	29.6	1	10/28/22 12:48	11/01/22 01:55	3697-24-3	
1-Methylnaphthalene	ND	ug/kg	29.6	1	10/28/22 12:48	11/01/22 01:55	90-12-0	
2-Methylnaphthalene	ND	ug/kg	29.6	1	10/28/22 12:48	11/01/22 01:55	91-57-6	
Naphthalene	ND	ug/kg	29.6	1	10/28/22 12:48	11/01/22 01:55	91-20-3	
5-Nitroacenaphthene	ND	ug/kg	29.6	1	10/28/22 12:48	11/01/22 01:55	602-87-9	
6-Nitrochrysene	ND	ug/kg	29.6	1	10/28/22 12:48	11/01/22 01:55	7496-02-8	
2-Nitrofluorene	ND	ug/kg	29.6	1	10/28/22 12:48	11/01/22 01:55	607-57-8	N2
1-Nitropyrene	ND	ug/kg	29.6	1	10/28/22 12:48	11/01/22 01:55	5522-43-0	N2
4-Nitropyrene	ND	ug/kg	29.6	1	10/28/22 12:48			N2
Perylene	54.8	ug/kg	29.6	1	10/28/22 12:48	11/01/22 01:55	198-55-0	
Phenanthrene	120	ug/kg	29.6	1	10/28/22 12:48	11/01/22 01:55	85-01-8	
Pyrene	331	ug/kg	29.6	1	10/28/22 12:48	11/01/22 01:55	129-00-0	
Surrogates		5 5			-			
2-Fluorobiphenyl (S)	44	%.	43-125	1	10/28/22 12:48	11/01/22 01:55	321-60-8	
p-Terphenyl-d14 (S)	42	%.	40-125	1	10/28/22 12:48	11/01/22 01:55	1718-51-0	



Project: Sediment
Pace Project No.: 10631212

Date: 11/07/2022 10:17 AM

Pace Project No.: 10631212			0 11			100100 1000		
Sample: Sample 2-(Downstream)	Lab ID: 1063		Collected: 10/26/22				Matrix: Solid	
Results reported on a "dry weight"	basis and are adj	usted for p	ercent moisture, san	nple si	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
365.1 Phos, Total Solids DU	Analytical Meth	nod: EPA 36	5.1 Preparation Meth	od: SN	1 4500-P B			
	Pace Analytica							
The earlier is	•		•	E	11/02/22 15:10	11/02/22 16:20	7700 14 0	
Phosphorus	2520	mg/kg	47.2	5	11/02/22 15:10	11/03/22 16:29	7723-14-0	
6010D MET ICP	Analytical Meth	nod: EPA 60	10D Preparation Meth	hod: E	PA 3050B			
	Pace Analytica	l Services -	Minneapolis					
Arsenic	16.2	mg/kg	3.8	1	11/02/22 16:58	11/03/22 13:50	7440-38-2	
Copper	17.9	mg/kg	1.9	1		11/03/22 13:50		
Dry Weight / %M by ASTM D2974	Analytical Meth							
	Pace Analytica	l Services -	Minneapolis					
Percent Moisture	74.6	%	0.10	1		10/31/22 15:21		N2
3270E MSSV PAH by SIM	Analytical Meth	od: EPA 82	70E by SIM Preparati	ion Me	thod: EPA 3546			
2102 moot 17m1 by 0m	Pace Analytica							
	•		·					
Acenaphthene	ND	ug/kg	55.5	1		10/28/22 21:19		
Acenaphthylene	ND	ug/kg	55.5	1		10/28/22 21:19		
Anthracene	ND	ug/kg	55.5	1		10/28/22 21:19	-	
Benzo(a)anthracene	ND	ug/kg	55.5	1		10/28/22 21:19		
Benzo(a)pyrene	ND	ug/kg	55.5	1		10/28/22 21:19		
Benzo(b)fluoranthene	65.7	ug/kg	55.5	1		10/28/22 21:19		
Benzo(g,h,i)perylene	ND	ug/kg	55.5	1		10/28/22 21:19		
Benzo(k)fluoranthene	ND	ug/kg	55.5	1		10/28/22 21:19		
Chrysene	ND	ug/kg	55.5	1		10/28/22 21:19		
Dibenz(a,h)anthracene	ND	ug/kg	55.5	1		10/28/22 21:19		
Fluoranthene Fluorene	161 ND	ug/kg	55.5 55.5	1 1		10/28/22 21:19 10/28/22 21:19		
ndeno(1,2,3-cd)pyrene	ND ND	ug/kg ug/kg	55.5 55.5	1		10/28/22 21:19		
Naphthalene	ND ND	ug/kg ug/kg	55.5 55.5	1		10/28/22 21:19		
Phenanthrene	121	ug/kg ug/kg	55.5 55.5	1		10/28/22 21:19		
Pyrene	103	ug/kg ug/kg	55.5 55.5	1		10/28/22 21:19		
Surrogates	103	ug/kg	55.5	•	10/21/22 05.55	10/20/22 21.10	125 00 0	
2-Fluorobiphenyl (S)	77	%.	59-125	1	10/27/22 09:53	10/28/22 21:19	321-60-8	
o-Terphenyl-d14 (S)	79	%.	65-125	1	10/27/22 09:53	10/28/22 21:19	1718-51-0	
2270E MSSV CDALL by SIM	Applytical Moth	od: EDA 92	70E by SIM Preparati	ion Mo	thad: EDA 35500			
3270E MSSV CPAH by SIM	Pace Analytica			IOIT IVIE	1110d. LFA 3330C	,		
	•		·					
Acenaphthene	ND	ug/kg	39.0	1		11/04/22 15:05		
Acenaphthylene	ND	ug/kg	39.0	1		11/04/22 15:05		
Anthracene	ND	ug/kg	39.0	1		11/04/22 15:05		
Benzo(a)anthracene	123	ug/kg	39.0	1		11/04/22 15:05		
Benzo(a)pyrene	141	ug/kg	39.0	1		11/04/22 15:05		
Benzo(e)pyrene	92.6	ug/kg	39.0	1		11/04/22 15:05		
Benzo(g,h,i)perylene	91.1	ug/kg	39.0	1		11/04/22 15:05		NO
Benzofluoranthenes (Total)	245	ug/kg	117	1		11/04/22 15:05		N2
Carbazole	ND	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	80-74-8	

REPORT OF LABORATORY ANALYSIS

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Project: Sediment
Pace Project No.: 10631212

Date: 11/07/2022 10:17 AM

Sample: Sample 2-(Downstream)	Lab ID: 106		Collected: 10/26/2				latrix: Solid	
Results reported on a "dry weight" _	_	_		-	_			_
Parameters	Results —	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3270E MSSV CPAH by SIM	Analytical Meth	nod: EPA 82	70E by SIM Prepara	ation Me	ethod: EPA 35500	,		
•	Pace Analytica	l Services -	Minneapolis					
2-Chloronaphthalene	ND	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	91-58-7	
Chrysene	137	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	218-01-9	
Dibenz(a,h)acridine	ND	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	226-36-8	
Dibenz(a,h)anthracene	ND	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	53-70-3	
Dibenz(a,j)acridine	ND	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	224-42-0	
Dibenzo(a,e)pyrene	296	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	192-65-4	
Dibenzo(a,h)pyrene	417	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	189-64-0	
Dibenzo(a,i)pyrene	211	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	189-55-9	
Dibenzo(a,l)pyrene	83.1	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	191-30-0	
'H-Dibenzo(c,g)carbazole	ND	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	194-59-2	
Dibenzofuran	ND	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	132-64-9	
7,12-Dimethylbenz(a)anthracene	ND	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	57-97-6	
Fluoranthene	269	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	206-44-0	
Fluorene	ND	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	86-73-7	
ndeno(1,2,3-cd)pyrene	93.5	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	193-39-5	
3-Methylcholanthrene	ND	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	56-49-5	
5-Methylchrysene	ND	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	3697-24-3	
I-Methylnaphthalene	ND	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	90-12-0	
2-Methylnaphthalene	ND	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	91-57-6	
Naphthalene	ND	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	91-20-3	
5-Nitroacenaphthene	ND	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	602-87-9	
6-Nitrochrysene	ND	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	7496-02-8	v1
2-Nitrofluorene	ND	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	607-57-8	N2
I-Nitropyrene	ND	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	5522-43-0	N2,v1
I-Nitropyrene	ND	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	57835-92-4	N2,v1
Perylene	ND	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	198-55-0	
Phenanthrene	126	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	85-01-8	
Pyrene	234	ug/kg	39.0	1	10/28/22 12:48	11/04/22 15:05	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	45	%.	43-125	1	10/28/22 12:48	11/04/22 15:05	321-60-8	
o-Terphenyl-d14 (S)	42	%.	40-125	1	10/28/22 12:48	11/04/22 15:05	1718-51-0	



Sediment Project: Pace Project No.: 10631212

QC Batch: 850971 Analysis Method:

EPA 365.1

QC Batch Method: SM 4500-P B Analysis Description:

3651 Phos, Total Solids DU

Laboratory:

Pace Analytical Services - Duluth, MN

Associated Lab Samples: 10631212001, 10631212002

METHOD BLANK:

Matrix: Solid

Associated Lab Samples:

10631212001, 10631212002

Units

Units

Blank

Result

Parameter

Reporting

Qualifiers Limit Analyzed

Phosphorus ND 2.5 11/03/22 15:13 mg/kg

LABORATORY CONTROL SAMPLE:

Parameter

4500183

Spike Conc.

LCS Result

LCS % Rec

MSD

1700

% Rec Limits

Qualifiers

Phosphorus 25 26.9 108 80-120 mg/kg

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

4500184

1340

10631027003 Parameter Units Result

mg/kg

Units

mg/kg

MSD MS Spike Spike Conc. Conc.

1370

MS Result

1770

4500185

MS Result % Rec

MSD % Rec

110

% Rec Max **RPD** Limits

RPD Qual 80-120 10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

4500186

MS MSD Spike MSD

MS

113

MSD % Rec

Max

Qual

Parameter Phosphorus

Date: 11/07/2022 10:17 AM

Phosphorus

10631212001 Result 2630

221

Spike Conc. Conc. 301 289

MS Result Result 3050

4500187

% Rec 144 3030

% Rec Limits 134

RPD RPD 80-120 0 10 P6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Sediment Project: Pace Project No.: 10631212

QC Batch: 849768 QC Batch Method: **EPA 3050B** Analysis Method: EPA 6010D Analysis Description: 6010D Solids

Laboratory:

Pace Analytical Services - Minneapolis

Associated Lab Samples: 10631212001, 10631212002

METHOD BLANK: Matrix: Solid

Associated Lab Samples: 10631212001, 10631212002

> Blank Reporting Limit Qualifiers Parameter Units Result Analyzed ND 0.92 11/03/22 13:35 mg/kg

Arsenic Copper ND 0.46 11/03/22 13:35 mg/kg

LABORATORY CONTROL SAMPLE: 4494239

Date: 11/07/2022 10:17 AM

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Arsenic 49.7 45.9 92 80-120 mg/kg Copper 49.7 49.1 99 80-120 mg/kg

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4494240 4494241 MS MSD 10631212001 Spike Spike MS MSD MS MSD % Rec Max RPD Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits **RPD** Qual Arsenic mg/kg 16.9 139 147 130 136 81 81 75-125 5 20 Copper 17.1 139 147 149 156 95 95 75-125 5 20 mg/kg

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Sediment
Pace Project No.: 10631212

QC Batch: 850300

QC Batch Method: ASTM D2974

Analysis Method: ASTM D2974

Analysis Description: Dry Weight / %M by ASTM D2974

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10631212001, 10631212002

SAMPLE DUPLICATE: 4497118

 Parameter
 Units
 10631212001 Result
 Dup Result
 Max RPD
 RPD
 Qualifiers

 Percent Moisture
 %
 66.4
 63.9
 4
 30 N2

SAMPLE DUPLICATE: 4497772

Date: 11/07/2022 10:17 AM

		10631503001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Percent Moisture	%	32.2	32.1		3	0 N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Sediment
Pace Project No.: 10631212

Date: 11/07/2022 10:17 AM

QC Batch: 849669 Analysis Method: EPA 8270E by SIM

QC Batch Method: EPA 3546 Analysis Description: 8270E Solid PAH by SIM MSSV

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10631212001, 10631212002

METHOD BLANK: 4493725 Matrix: Solid

Associated Lab Samples: 10631212001, 10631212002

	•	Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	ND	10.0	10/28/22 11:01	
Acenaphthylene	ug/kg	ND	10.0	10/28/22 11:01	
Anthracene	ug/kg	ND	10.0	10/28/22 11:01	
Benzo(a)anthracene	ug/kg	ND	10.0	10/28/22 11:01	
Benzo(a)pyrene	ug/kg	ND	10.0	10/28/22 11:01	
Benzo(b)fluoranthene	ug/kg	ND	10.0	10/28/22 11:01	
Benzo(g,h,i)perylene	ug/kg	ND	10.0	10/28/22 11:01	
Benzo(k)fluoranthene	ug/kg	ND	10.0	10/28/22 11:01	
Chrysene	ug/kg	ND	10.0	10/28/22 11:01	
Dibenz(a,h)anthracene	ug/kg	ND	10.0	10/28/22 11:01	
Fluoranthene	ug/kg	ND	10.0	10/28/22 11:01	
Fluorene	ug/kg	ND	10.0	10/28/22 11:01	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	10.0	10/28/22 11:01	
Naphthalene	ug/kg	ND	10.0	10/28/22 11:01	
Phenanthrene	ug/kg	ND	10.0	10/28/22 11:01	
Pyrene	ug/kg	ND	10.0	10/28/22 11:01	
2-Fluorobiphenyl (S)	%.	70	59-125	10/28/22 11:01	
p-Terphenyl-d14 (S)	%.	82	65-125	10/28/22 11:01	

LABORATORY CONTROL SAMP	LE: 4493726					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Acenaphthene	ug/kg	100	90.0	90	60-125	
Acenaphthylene	ug/kg	100	87.9	88	59-125	
Anthracene	ug/kg	100	91.6	92	62-125	
Benzo(a)anthracene	ug/kg	100	87.4	87	64-125	
Benzo(a)pyrene	ug/kg	100	86.2	86	64-125	
Benzo(b)fluoranthene	ug/kg	100	90.1	90	65-125	
Benzo(g,h,i)perylene	ug/kg	100	102	102	66-125	
Benzo(k)fluoranthene	ug/kg	100	92.5	92	66-125	
Chrysene	ug/kg	100	84.5	85	66-125	
Dibenz(a,h)anthracene	ug/kg	100	103	103	67-125	
Fluoranthene	ug/kg	100	83.5	84	65-125	
Fluorene	ug/kg	100	91.5	92	60-125	
Indeno(1,2,3-cd)pyrene	ug/kg	100	102	102	64-125	
Naphthalene	ug/kg	100	75.3	75	48-125	
Phenanthrene	ug/kg	100	83.9	84	62-125	
Pyrene	ug/kg	100	87.0	87	68-125	
2-Fluorobiphenyl (S)	%.			74	59-125	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Sediment
Pace Project No.: 10631212

Date: 11/07/2022 10:17 AM

LABORATORY CONTROL SAMPLE: 4493726

Spike LCS LCS % Rec

Parameter Units Conc. Result % Rec Limits Qualifiers

p-Terphenyl-d14 (S) %. 78 65-125

MATRIX SPIKE & MATRIX S	SPIKE DUPLIC	CATE: 4493	727 MS	MSD	4493728							
	1	0631245001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qua
Acenaphthene	ug/kg	ND	102	102	85.3	74.2	84	73	70-125	14	30	
Acenaphthylene	ug/kg	ND	102	102	83.9	73.2	82	72	30-150	14	30	
Anthracene	ug/kg	ND	102	102	99.3	87.7	98	86	67-125	12	30	
Benzo(a)anthracene	ug/kg	ND	102	102	99.0	88.3	97	86	64-125	11	30	
Benzo(a)pyrene	ug/kg	ND	102	102	102	90.7	100	89	40-137	11	30	
Benzo(b)fluoranthene	ug/kg	ND	102	102	105	94.3	104	92	30-150	11	30	
Benzo(g,h,i)perylene	ug/kg	ND	102	102	119	107	117	104	69-125	11	30	
Benzo(k)fluoranthene	ug/kg	ND	102	102	110	98.0	108	96	48-133	11	30	
Chrysene	ug/kg	ND	102	102	97.7	93.9	96	92	62-125	4	30	
Dibenz(a,h)anthracene	ug/kg	ND	102	102	119	105	117	103	57-125	13	30	
Fluoranthene	ug/kg	ND	102	102	99.8	90.9	98	89	60-125	9	30	
Fluorene	ug/kg	ND	102	102	91.1	80.8	90	79	53-125	12	30	
ndeno(1,2,3-cd)pyrene	ug/kg	ND	102	102	118	106	116	104	49-130	10	30	
Naphthalene	ug/kg	ND	102	102	79.8	65.5	78	64	46-125	20	30	
Phenanthrene	ug/kg	ND	102	102	84.8	73.7	83	72	61-125	14	30	
Pyrene	ug/kg	ND	102	102	97.0	87.2	95	85	58-125	11	30	
2-Fluorobiphenyl (S)	%.						71	60	59-125			
o-Terphenyl-d14 (S)	%.						88	77	65-125			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Sediment
Pace Project No.: 10631212

Date: 11/07/2022 10:17 AM

QC Batch: 850008 Analysis Method: EPA 8270E by SIM

QC Batch Method: EPA 3550C Analysis Description: 8270E CPAH by SIM MSSV

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10631212001, 10631212002

METHOD BLANK: 4495364 Matrix: Solid

Associated Lab Samples: 10631212001, 10631212002

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	10.0	11/01/22 00:55	
1-Nitropyrene	ug/kg	ND	10.0	11/01/22 00:55	N2
2-Chloronaphthalene	ug/kg	ND	10.0	11/01/22 00:55	
2-Methylnaphthalene	ug/kg	ND	10.0	11/01/22 00:55	
2-Nitrofluorene	ug/kg	ND	10.0	11/01/22 00:55	N2
3-Methylcholanthrene	ug/kg	ND	10.0	11/01/22 00:55	
4-Nitropyrene	ug/kg	ND	10.0	11/01/22 00:55	N2
5-Methylchrysene	ug/kg	ND	10.0	11/01/22 00:55	
5-Nitroacenaphthene	ug/kg	ND	10.0	11/01/22 00:55	
6-Nitrochrysene	ug/kg	ND	10.0	11/01/22 00:55	
7,12-Dimethylbenz(a)anthracene	ug/kg	ND	10.0	11/01/22 00:55	
7H-Dibenzo(c,g)carbazole	ug/kg	ND	10.0	11/01/22 00:55	
Acenaphthene	ug/kg	ND	10.0	11/01/22 00:55	
Acenaphthylene	ug/kg	ND	10.0	11/01/22 00:55	
Anthracene	ug/kg	ND	10.0	11/01/22 00:55	
Benzo(a)anthracene	ug/kg	ND	10.0	11/01/22 00:55	
Benzo(a)pyrene	ug/kg	ND	10.0	11/01/22 00:55	
Benzo(e)pyrene	ug/kg	ND	10.0	11/01/22 00:55	
Benzo(g,h,i)perylene	ug/kg	ND	10.0	11/01/22 00:55	
Benzofluoranthenes (Total)	ug/kg	ND	30.0	11/01/22 00:55	N2
Carbazole	ug/kg	ND	10.0	11/01/22 00:55	
Chrysene	ug/kg	ND	10.0	11/01/22 00:55	
Dibenz(a,h)acridine	ug/kg	ND	10.0	11/01/22 00:55	
Dibenz(a,h)anthracene	ug/kg	ND	10.0	11/01/22 00:55	
Dibenz(a,j)acridine	ug/kg	ND	10.0	11/01/22 00:55	
Dibenzo(a,e)pyrene	ug/kg	ND	10.0	11/01/22 00:55	
Dibenzo(a,h)pyrene	ug/kg	ND	10.0	11/01/22 00:55	
Dibenzo(a,i)pyrene	ug/kg	ND	10.0	11/01/22 00:55	
Dibenzo(a,I)pyrene	ug/kg	ND	10.0	11/01/22 00:55	
Dibenzofuran	ug/kg	ND	10.0	11/01/22 00:55	
Fluoranthene	ug/kg	ND	10.0	11/01/22 00:55	
Fluorene	ug/kg	ND	10.0	11/01/22 00:55	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	10.0	11/01/22 00:55	
Naphthalene	ug/kg	ND	10.0	11/01/22 00:55	
Perylene	ug/kg	ND	10.0	11/01/22 00:55	
Phenanthrene	ug/kg	ND	10.0	11/01/22 00:55	
Pyrene	ug/kg	ND	10.0	11/01/22 00:55	
2-Fluorobiphenyl (S)	%.	70	43-125	11/01/22 00:55	
p-Terphenyl-d14 (S)	%.	94	40-125	11/01/22 00:55	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Sediment
Pace Project No.: 10631212

1-Methylnaphthalene

Date: 11/07/2022 10:17 AM

ug/kg

76.7

127

LABORATORY CONTROL SAMPLE:	4495365								
5 .	11.2	Spike	LCS	LCS	% Rec	0 ""			
Parameter	Units	Conc	Result	% Rec	Limits	Qualifiers	_		
1-Methylnaphthalene	ug/kg	100	75.9	76	52-125	;			
1-Nitropyrene	ug/kg	100	83.0	83	30-131	N2			
2-Chloronaphthalene	ug/kg	100	82.6	83	54-125	;			
2-Methylnaphthalene	ug/kg	100	76.7	77	52-125	;			
2-Nitrofluorene	ug/kg	100	94.0	94	60-132	: N2			
3-Methylcholanthrene	ug/kg	100	86.5	86	30-131				
4-Nitropyrene	ug/kg	100	87.1	87	42-135	N2			
5-Methylchrysene	ug/kg	100	88.2	88	63-125	i			
5-Nitroacenaphthene	ug/kg	100	77.5	77	60-128	1			
6-Nitrochrysene	ug/kg	100	98.3	98	30-143	1			
7,12-Dimethylbenz(a)anthracene	ug/kg	100	108	108	30-125	;			
7H-Dibenzo(c,g)carbazole	ug/kg	100	90.8	91	69-125	i			
Acenaphthene	ug/kg	100	79.7	80	59-125	;			
Acenaphthylene	ug/kg	100	79.3	79	56-125				
Anthracene	ug/kg	100	86.2	86	62-125	i			
Benzo(a)anthracene	ug/kg	100	84.5	85	60-125	;			
Benzo(a)pyrene	ug/kg	100	96.7	97	67-125	,			
Benzo(e)pyrene	ug/kg	100	99.9	100	64-125	;			
Benzo(g,h,i)perylene	ug/kg	100	94.7	95	39-129				
Benzofluoranthenes (Total)	ug/kg	300	313	104	67-125	N2			
Carbazole	ug/kg	100	84.3	84	66-125	;			
Chrysene	ug/kg	100	90.0	90	60-125				
Dibenz(a,h)acridine	ug/kg	100	90.9	91	66-125	;			
Dibenz(a,h)anthracene	ug/kg	100	93.9	94	66-125				
Dibenz(a,j)acridine	ug/kg	100	82.6	83	30-133				
Dibenzo(a,e)pyrene	ug/kg	100	85.4	85	57-125				
Dibenzo(a,h)pyrene	ug/kg	100	96.7	97	59-126	;			
Dibenzo(a,i)pyrene	ug/kg	100	84.2	84	45-125				
Dibenzo(a,l)pyrene	ug/kg	100	71.0	71	30-125				
Dibenzofuran	ug/kg	100	82.7	83	61-125				
Fluoranthene	ug/kg	100	80.7	81	66-125				
Fluorene	ug/kg	100	83.0	83	63-125				
Indeno(1,2,3-cd)pyrene	ug/kg	100	90.2	90	67-125				
Naphthalene	ug/kg	100	74.3	74	50-125				
Perylene	ug/kg	100	94.3	94	69-125				
Phenanthrene	ug/kg	100	85.0	85	67-125				
Pyrene	ug/kg	100	100	100	62-125				
2-Fluorobiphenyl (S)	%.			84	43-125				
p-Terphenyl-d14 (S)	%.			103	40-125				
MATRIX SPIKE & MATRIX SPIKE DUI	PLICATE: 4495	266	449536	:7					
WATER SPIRE & WATER SPIRE DU	I LIUMIE. 4495		449536 SD	''					
	10631442001		oike MS	MSD	MS MS	D % Rec		Max	
	10031442001	ohive oh	ING INIO	IVIOL	1419 1419	/0 IVEC		iviax	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

228

235

119

124

37-125

3 30

128



Project: Sediment
Pace Project No.: 10631212

Date: 11/07/2022 10:17 AM

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 4495			4495367							
		10001110001	MS	MSD		1400		1400	0/ D			
Parameter	Units	10631442001 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qua
Farameter		— Result	Conc.				% Kec	% Kec				
1-Nitropyrene	ug/kg	<16.5	127	128	151	139	118	109	30-131	8		N2
2-Chloronaphthalene	ug/kg	<10.2	127	128	118	136	93	106	48-125	14		
2-Methylnaphthalene	ug/kg	43.6J	127	128	172	182	101	108	40-125	5		
2-Nitrofluorene	ug/kg	<6.8	127	128	1400	1570	1100	1230	30-150	11		M1, N
3-Methylcholanthrene	ug/kg	<9.0	127	128	270	276	212	216	30-131	2	30	M1
4-Nitropyrene	ug/kg	<15.4	127	128	ND	ND	0	0	30-135		30	M1, N
5-Methylchrysene	ug/kg	1220	127	128	1720	1680	392	359	30-150	2	30	M1
5-Nitroacenaphthene	ug/kg	<21.6	127	128	185	255	145	199	30-150	32	30	M1,R
6-Nitrochrysene	ug/kg	<14.3	127	128	ND	ND	0	0	30-143		30	M1
7,12-	ug/kg	347	127	128	630	718	222	291	30-145	13	30	M1
Dimethylbenz(a)anthracene										_		
7H-Dibenzo(c,g)carbazole	ug/kg	242	127	128	469	501	179	203	30-125	6		M1
Acenaphthene	ug/kg	367	127	128	586	728	172	282	30-139	22		M1
Acenaphthylene	ug/kg	70.6	127	128	230	258	125	147	30-125	11		M1
Anthracene	ug/kg	1200	127	128	1540	2240	264	813	30-150	37		M1,F
Benzo(a)anthracene	ug/kg	5790	127	128	6480	7810	540	1580	30-150	19		M1
Benzo(a)pyrene	ug/kg	6960	127	128	8490	9130	1200	1700	30-150	7		M1
Benzo(e)pyrene	ug/kg	7490	127	128	8190	8630	549	891	30-150	5		M1
Benzo(g,h,i)perylene	ug/kg	7440	127	128	8120	8770	535	1030	30-150	8		M1
Benzofluoranthenes (Total)	ug/kg	14200	382	384	16800	17000	678	747	30-150	2		M1,N
Carbazole	ug/kg	846	127	128	1330	1490	381	503	30-150	11		M1
Chrysene	ug/kg	8920	127	128	10300	10700	1070	1420	30-150	4	30	M1
Dibenz(a,h)acridine	ug/kg	<3.9	127	128	676	736	531	576	30-125	8	30	M1
Dibenz(a,h)anthracene	ug/kg	1290	127	128	1840	1970	432	527	30-146	6		M1
Dibenz(a,j)acridine	ug/kg	<14.5	127	128	284	322	223	252	30-133	13		M1
Dibenzo(a,e)pyrene	ug/kg	2530	127	128	3620	3790	858	989	30-125	5	30	M1
Dibenzo(a,h)pyrene	ug/kg	1400	127	128	1980	2020	457	489	30-126	2		M1
Dibenzo(a,i)pyrene	ug/kg	333	127	128	363	341	24	6	30-125	6	30	M1
Dibenzo(a,I)pyrene	ug/kg	177	127	128	360	367	144	149	30-125	2	30	M1
Dibenzofuran	ug/kg	69.1	127	128	202	230	104	126	43-125	13	30	M1
Fluoranthene	ug/kg	13100	127	128	14000	16100	691	2370	30-150	14	30	M1
Fluorene	ug/kg	575	127	128	814	1090	188	405	30-147	29	30	M1
ndeno(1,2,3-cd)pyrene	ug/kg	6110	127	128	6920	7110	635	784	30-150	3	30	M1
Naphthalene	ug/kg	15.3J	127	128	126	133	87	92	37-125	5	30	
Perylene	ug/kg	1540	127	128	2150	2330	482	618	30-150	8	30	M1
Phenanthrene	ug/kg	10600	127	128	10100	12600	-366	1570	30-150	22	30	M1
Pyrene	ug/kg	17800	127	128	16900	18900	-687	911	30-150	11	30	M1
2-Fluorobiphenyl (S)	%.						99	109	43-125			P3
p-Terphenyl-d14 (S)	%.						107	108	40-125			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: Sediment
Pace Project No.: 10631212

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

Date: 11/07/2022 10:17 AM

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
P3	Sample extract could not be concentrated to the routine final volume, resulting in elevated reporting limits.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
R1	RPD value was outside control limits.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Sediment
Pace Project No.: 10631212

Date: 11/07/2022 10:17 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch	
10631212001	Sample 1-(Upstream)	SM 4500-P B	850971	EPA 365.1	851064	
10631212002	Sample 2-(Downstream)	SM 4500-P B	850971	EPA 365.1	851064	
10631212001	Sample 1-(Upstream)	EPA 3050B	849768	EPA 6010D	851188	
10631212002	Sample 2-(Downstream)	EPA 3050B	849768	EPA 6010D	851188	
10631212001	Sample 1-(Upstream)	ASTM D2974	850300			
10631212002	Sample 2-(Downstream)	ASTM D2974	850300			
10631212001	Sample 1-(Upstream)	EPA 3546	849669	EPA 8270E by SIM	849951	
10631212002	Sample 2-(Downstream)	EPA 3546	849669	EPA 8270E by SIM	849951	
10631212001	Sample 1-(Upstream)	EPA 3550C	850008	EPA 8270E by SIM	850506	
10631212002	Sample 2-(Downstream)	EPA 3550C	850008	EPA 8270E by SIM	850506	

531212			kao roject wianager.	cid, (4) sodium hydroxide, (5) zinc acetate,	(e) mernano), (7) socium bisultate, (8) socium tinosultate, (9) nexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other	Lab Profile/Line:	Č.S			Ice Y N ptable Y N	Z Z K K	resent Y N e Y N	Sulfide Present Lead Acetate Strips:	LAB USE ONLY:	Lab Sample # / Comments:							Lab Sample Temperature Info:	Them ID#: (Y)N NA Them ID#: (A)D NA	Cooler 1 Therm Corr. Factor: Cooler 1 Corrected Temps: /d	Comments:		Trip Blank Received: Y N NA HCL MeOH TSP Other	Non Conformance(s): Page:
MO#: 10631212				sulfuric acid, (3) hydrochloric a	odium thiosulfate, (9) hexane, (v Jnpreserved, (0) Other	jej																hours): Y N N/A	2855440	t Courier Pace Courier	MEJLU	Table #: Acctnum:	Template: Prelogin:	P <u>R</u> .
LAB USE ONLY- Affix		ALL SI	Container Preservative 1940	vative Types: (1) nitric acid, (2)	anoi, (7) sodium bisuirate, (8) s onium hydroxide, (D) TSP, (U) L	Analyses																SHORT HOLDS PRESENT (<72 hours): Y	lab Tracking#: 28E	Samples received via: FEDEX UPS Client]	00:7/M/m/s	Date/Time: /	Date/Time:
CHAIN-OF-CUSTODY Analytical Request Document	Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields					Time Zone Collected:	[]PT[]MT[]CT []ET	Compliance Monitoring? [] Yes [] No	DW PWS ID #: DW Location Code:	stely	[] Yes [] No	Field Filtered (if applicable): [] Yes	V), Wastewater (WW),	apor (v), Other (OT)	Composite End Res # of Ctns Date Time							Wet Blue Dry None St	<u>9</u>	Y N NA	Received by/Company: (Signature)	- Me	Received by/Company: (Signature)	Received by/Company: (Signature)
JSTODY Analytica	ly is a LEGAL DOCUMENT -	Billing Information:		Email To:	Site Collection Info/Address:	State: County/City:	_	0				Fi Same Day	r (DW), Ground Water (GV	issue (15), bloassay (b), va	Collected (or Composite Start) Date Time						2000	Type of Ice Used: M	Packing Material Used.	Radchem sample(s) screened (<500 cpm):	Date/Time: Re			Date/Time:
	Face Analytical*	Company:	Address: 1919 un.vers.+1, Auc is Su. 16 3000	Reco	1	Customer Project Name/Number:	1	Phone: Site/Facility ID #: Email: (会パーアリン・9 4 らく	Collected By (print): Purchase Order #:	Collected By (signature): Turnaround Date Required:		Sample Disposal: [] Dispose as appropriate [] Return	* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P) Soil/Soild (St.) Oil (OL) Wine (MP) Air (AR) Tissue (TS) Ringscav (R) Vannt (V) Other (OT)	riodact (r), soil/soila (st), Oil (Ot), Wipe (WF), All (AN),	Customer Sample ID Matrix * Grab	X	7					Customer Remarks / Special Conditions / Possible Hazards:		(py (Signature)		-	Rakinquished by/Company: (Signature)

DC#_Title: ENV-FRM-MIN4-0150 v10_Sample Condition Upon Receipt (SCUR)

Effective Date:

Sample Condition Upon Receipt Client Name:	ı	Project #:	W	MO#:10631212					
LUFT	_		_	: Y01 Due Date: 11/09/22					
Courier: FedEx UPS USPS Client Pace SpeeDee Commercial				IENT: EOR					
Tracking Number:	See Ex ENV-FRM-I	cceptions MIN4-0142							
Custody Seal on Cooler/Box Present? Yes X No	Seals Intact?	Yes X	No	Biological Tissue Frozen? Yes No N/A					
Packing Material: Bubble Wrap Bubble Bags	None		Other						
Thermometer: T1 (0461) T2 (1336) T3 (04 T6 (0235) T7 (0042) T8 (07			(0178)	Type of Ice: Wet Blue Dry X None Melted					
Did Samples Originate in West Virginia? Yes 📈 No			All Con	ntainer Temps Taken? Yes No X N/A					
Temp should be above freezing to 6 °C Cooler temp Read w/	Temp Blank:	14.6°C		Average Corrected Temp					
Correction Factor: TRUE Cooler Temp Corrected w,	/temp blank:	14.6 °c		(no temp blank only): °C See Exceptions ENV-FRM-MIN4-0142 1 Container					
USDA Regulated Soil: (X) N/A, water sample other:))		Date/Initials of Person Examining Contents: UM 10/140/12					
Did samples originate in a quarantine zone within the United St GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check ma	aps)? Ye	es No		Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No					
			VIIN4-0	154) and include with SCUR/COC paperwork.					
Location (Check one): Duluth Minner Chain of Custody Present and Filled Out?	1 11	Virginia No		COMMENTS 1.					
Chain of Custody Relinquished?	X Yes X Yes	No		2.					
Sampler Name and/or Signature on COC?	X Yes	No	N/A	3.					
Samples Arrived within Hold Time?	X Yes	No	3 , , .	4. If fecal: <8 hrs >8 hr, <24 No					
Short Hold Time Analysis (<72 hr)?	Yes	X No		5. Fecal Coliform HPC Total Coliform/E.coli					
				BOD/cBOD Hex Chrom Turbidity Nitrate Nitrite Orthophos Other					
Rush Turn Around Time Requested?	Yes	X No		6.					
Sufficient Sample Volume? Correct Containers Used?	X Yes X Yes	No No	N/A	7.					
-Pace Containers Used?	Yes	H _{No} -	j 14/A	^{o.}					
Containers Intact?	Yes	No		9.					
Field Filtered Volume Received for Dissolved Tests?	Yes		N/A	10. Is sediment visible in the dissolved container? Yes No					
Is sufficient information available to reconcile the samples to th		No		11. If no, write ID/Date/Time of container below:					
COC? Matrix: Water Soil Oil Other				See Exceptions ENV-FRM-MIN4-0142					
All containers needing acid/base preservation have been checked?	Yes	□ No X	N/A	12. Sample #					
All containers needing preservation are found to be in compliance with EPA recommendation?	Yes	□No 区	N/A	☐ NaOH ☐ HNO3 ☐ H2SO4 ☐ Zinc Acetate					
(HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)									
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxins/PFAS	Yes	□ No 区	N/A	Positive for Residual Yes See Exceptions Chlorine? No ENV-FRM-MIN4-0142					
*If adding preservative to a container, it must be added to				pH Paper Lot #					
associated field and equipment blanksverify with PM first.)				Residual Chlorine 0-6 Roll 0-6 Strip 0-14 Strip					
Headspace in Methyl Mercury Container?	Yes			13.					
Extra labels present on soil VOA or WIDRO containers? Headspace in VOA Vials (greater than 6mm)?	Yes Yes		N/A N/A	14. See Exceptions					
3 Trip Blanks Present?	Yes		N/A N/A	ENV-FRM-MIN4-0142					
Trip Blank Custody Seals Present?	Yes		N/A	Pace Trip Blank Lot # (if purchased):					
CLIENT NOTIFICATION/RESOLUTION Person Contacted: Brian Rucker				Field Data Required? Yes No					
reison contacted.	irm dates/ti	mes/reques		sts. Tests on Quote all confirmed is needed. Also no					
Project Manager Review: <u>Uena Ozawa</u>	53.00/11		-55 10	Date: 10/27/2022 OOT Sa					
NOTE: Whenever there is a discrepancy affecting North Carolina compliance samples	, a copy of this for	m will be sent to th	e North C						
emp, incorrect containers).	. ,,			abeled By: Line:					

1	Pace
1	ANALYTICAL SERVICES

DC#_Title: ENV-FRM-MIN4-0142 v02_Sample Condition Upon Receipt (SCUR) Exception Form

Effective Date: 09/22/2022

		Work	order#:							
Read Temp	No Temp Corrected		Average ten	n p		ified of Out indicate wh If no, i	o was cor			□ No me.
If anything	is OVER	6.0° C,	you <u>MU</u>	<u>IST</u> dod	cument of	ultiple Coole	***************************************		2020/03/04/05/05/05/05/05/05/05/05/05/05/05/05/05/	
Trackin	g Number		Temperatur	re	Out of Te	mp Sample / (Ups) rea	ÎD`	Container Type らん	Co	# of ntainers
					Samph. 2.	(Danne) (C	an)	6N		1
					Description of Co.					
Sample ID	Type Of Preserve	pH Upon Receipt	oH Adjustme Date Adjusted	nt Log for Time Adjusted	Preserved Sa Amount Added I (mL)	mples Lot # Added	pH After	In Comp	ter	Initials
Sample ID	Of	pH Upon	Date	Time	Amount Added	Lot#	Francis - 6 (606) 6 (66) 6 (6)	Aft	ter	Initials
Sample ID	Of	pH Upon	Date	Time	Amount Added	Lot#	Francis - 6 (606) 6 (66) 6 (6)	Aft Addit Yes Yes	ter tion?	Initials
Sample ID	Of	pH Upon	Date	Time	Amount Added	Lot#	Francis - 6 (606) 6 (66) 6 (6)	Aft Addit Yes Yes Yes	ter tion?	Initials
Sample ID	Of	pH Upon	Date	Time	Amount Added	Lot#	Francis - 6 (606) 6 (66) 6 (6)	Aft Addit Yes Yes Yes Yes	ter tion? No	Initials
Sample ID	Of	pH Upon	Date	Time	Amount Added	Lot#	Francis - 6 (606) 6 (66) 6 (6)	Afti Addit Yes Yes Yes Yes Yes	ter tion?	Initials
Sample ID	Of	pH Upon	Date	Time	Amount Added	Lot#	Francis - 6 (606) 6 (66) 6 (6)	Aft Addit Yes Yes Yes Yes Yes Yes Yes Yes	ter tion? No No No No No No	Initials
Sample ID	Of	pH Upon	Date	Time	Amount Added	Lot#	Francis - 6 (606) 6 (66) 6 (6)	Afti Addit Yes Yes Yes Yes Yes	ter tion? No No No No No	Initials

1700 Elm Street SE Minneapolis, MN 55414 Phone: 612-607-1700 Fax: 612-607-6444



Quote Prepared for:

EOR

1919 University Ave WSuite 300

St. Paul, MN 55104

Stu Grubb

(651) 351-1614

grubbss@aol.com

Pace® Contact Information

Account Executive

Jeff Smith

Project Manager

jeff.smith@pacelabs.com

Project Information

Quote Name

00125007 - EOR_sediment analysis_101822

Created Date

10/18/2022

Quote Number

00125007

Expiration Date

12/30/2022

Standard TAT:

10 Business Days

Report Level

П

Project Location

MN

Minimum Laboratory Fee

\$200

Quote Details

Quantity	Method	Matrix	Product	Line Item Description	Sales Price	Sub-Total	Total-Price
2.00	EPA 6010B (ICP)	Solid Only	Arsenic (As)-Each addt'l metal		\$20.00	\$40.00	\$40.00
2.00	EPA 6010B/ 200.7 (ICP)	Solid Only	Copper (Cu)-Each addt'l metal		\$20.00	\$40.00	\$40.00
2.00	EPA 8270SIM	Solid Only	Polynuclear Aromatic Hydrocarbons (PAH) (low level) (soil)		\$135.00	\$270.00	\$270.00
2.00	EPA 8270SIM (cPAH)	Solid Only	Polynuclear Aromatic Hydrocarbons (cPAH) (low level) (soil)		\$230.00	\$460.00	\$460.00
2.00	EPA 365.2	Solid Only	Phosphorus, Total (soil)		\$30.00	\$60.00	\$60.00
2.00	SM 2540G	Solid Only	Percent (%) Moisture/Dry Weight		\$5.00	\$10.00	\$10.00
1.00			Environmental Impact Fee (Per Invoice)		\$20.00	\$20.00	\$20.00
2.00	N/A		Sample Disposal	per sample	\$5.00	\$10.00	\$10.00

Grand-Total Estimated Economic Price Adjustment

Grand Total with Surcharge

\$910.00

\$78.26

\$988.26

Intra-Regional Chain of Custody

> W0#: 10631212 Due Date: 11/09/22 Page 23 of 24

CLIENT: EOR

Cooler Temper	4	ω	2	1 Cs	Transfers Rele		5	4	ω	2 Sample 2-(Downstream)	1 Sample 1-(Upstream)	Item Sample ID	Report To: Yeng Ozawa	Pace Analytical Minnesota 1700 Elm Street Minneapolis, MN 55414 Phone (612)607-1700	Received at:	**CINCIDGI. IOOOIAIA
Cooler Temperature on Receipt		į	The state of	CSM/Porce	Released By					nstream)	ream)			linnesota 55414 1700		
. <i>1.9</i> °C			idzītz							PS 10	PS 10	Sample C Type D				VOLCEL ING
_	-		22 1445	102722 10:30	Date/Time	•				10/26/2022 10:31	10/26/2022 10:30 10631212001	Collect Date/Time		Pace Analytical Du 4730 Oneota St. Duluth, MN 55807 Phone (218) 727-6	Send To Lab:	**CINCIDE INDIES OFULLEIL
Custody Seal (Y) or			ase) 330	Received By					10631212002	10631212001	Lab ID		Pace Analytical Duluth 4730 Oneota St. Duluth, MN 55807 Phone (218) 727-6380	b:	=
Y) or N			7	Told I	Ву					Solid 1	Solid 1	Matrix	.			
Rec			10,	idetle									JGFU Preserved Containers			_
Received on Ic			127/22 1445	2 1105	Date/Time					×	×		ntainers EPA 365.1			OWITER Necel
d on Ice প or			5													ved Date:
Z															Requested Analysis	Received Date: 10/20/2022
Sampl						Comments						***************************************			Analysis	Due Da
Samples Intact(小) or						ents										Due Date. III OIL
Y) or N												LAB USE ONLY				!

^{***}In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

DC#_Title: ENV-FRM-MIN4-0150 v10_Sample Condition Upon Receipt (SCUR)

Effective Date:

Sample Condition Upon Receipt Client Name: Pace		Project	MC)#:10631212
Courier: ☐ FedEx ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial		Exception	100	
Tracking Number:	_ ENV-FRM-			
Custody Seal on Cooler/Box Present? Yes No S	eals Intact?	Yes	□ No	Biological Tissue Frozen? Yes No
Packing Material: X Bubble Wrap Subble Bags	☐ None	9	Othe	r Temp Blank? 🔀 Yes 🔲 No
Thermometer: T1 (0461) T2 (1336) T3 (045) T6 (0235) T7 (0042) T8 (077)				Type of Ice: Wet Blue Dry None Melted
Did Samples Originate in West Virginia? Yes 🗓 No			Were All Co	ntainer Temps Taken? Yes No X N/A
Temp should be above freezing to 6 °C Cooler temp Read w/T	emp Blank	1.8	°C	Average Corrected Temp
Correction Factor: +O, Cooler Temp Corrected w/1	emp blank	1,9	°c	(no temp blank only): °C See Exceptions ENV-FRM-MIN4-0142 1 Contain
USDA Regulated Soil: (XN/A, water sample/other:		_)		Date/Initials of Person Examining Contents: 10/27/22
Did samples originate in a quarantine zone within the United Stat GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map			No	Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?
				154) and include with SCUR/COC paperwork.
Location (Check one): Duluth Minnea		_ Virgini	а	COMMENTS
Chain of Custody Present and Filled Out?	Yes	No	· · ·	1.
Chain of Custody Relinquished?	Yes	No		2.
Sampler Name and/or Signature on COC?	Yes	No	N/A	
Samples Arrived within Hold Time?	Yes	No No		4. If fecal:
Short Hold Time Analysis (<72 hr)?	Yes	∠ No		5. Fecal Coliform HPC Total Coliform/E.coli BOD/cBOD Hex Chrom Turbidity Nitra Nitrite Orthophos Other
Rush Turn Around Time Requested?	Yes	No		6.
Sufficient Sample Volume?	Yes	No		7
Correct Containers Used?	∠ Yes	∐ No	N/A	8.
-Pace Containers Used?	Yes	No		
Containers Intact?	Yes	No		9.
Field Filtered Volume Received for Dissolved Tests?	Yes	No	N/A	10. Is sediment visible in the dissolved container? Yes I
Is sufficient information available to reconcile the samples to the COC? Matrix: Water Soil Oil Other	∠ Yes	No		11. If no, write ID/Date/Time of container below: See Exceptic ENV-FRM-MIN4-0
All containers needing acid/base preservation have been	Yes	No	N/A	12. Sample #
checked? All containers needing preservation are found to be in compliance with EPA recommendation?	☐ Yes	☐ No	⊠ N/A	NaOH HNO3 H2SO4 Zinc Acetate
(HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)				
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015	Yes	∐ No	N/A	Positive for Residual Yes See Exception
(water) and Dioxins/PFAS				Chlorine? No ENV-FRM-MIN4-C
(*If adding preservative to a container, it must be added to associated field and equipment blanksverify with PM first.)				Residual Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Headspace in Methyl Mercury Container?	Yes	☐ No	N/A	13.
Extra labels present on soil VOA or WIDRO containers?	Yes	No	N/A	14. See Exception
Headspace in VOA Vials (greater than 6mm)?	Yes	☐ No	☑ N/A	ENV-FRM-MIN4-C
3 Trip Blanks Present?	Yes	No		
Trip Blank Custody Seals Present?	Yes	No	✓ N/A	Pace Trip Blank Lot # (if purchased):
CLIENT NOTIFICATION/RESOLUTION				Field Data Required? Yes N
Person Contacted:				Date/Time:
Comments/Resolution:				Date: 10/28/2022
Project Manager Review: <u>Veng Ozawa</u>	***			
NOTE: Whenever there is a discrepancy affecting North Carolina compliance samples, incorrect containers).	a copy of this fe	orm will be se	ent to the North (Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of te