



The OS Group, LLC
 444 21st Street South
 LA CROSSE, WI 54601-5028
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 John.Storlie@theosgrp.com
 www.theosgrp.com

Change Order #5

ADDRESS

Stephen Matty, City Attorney
 City of La Crosse
 400 La Crosse St
 La Crosse, WI 54601
 United States

ESTIMATE #	DATE
1312	08/06/2021

OSG PROJECT NO.
1901155

PROJ. NAME
LSE PFAS Site Investigation

ACTIVITY	ACTIVITY	QTY	RATE	AMOUNT
Consulting	Additional site investigation per draft Additional Site Investigation Work Plan (attached)	1	104,600.00	104,600.00

TOTAL

\$104,600.00

Change Order #5 to Proj #1901155. Existing project rates, terms & conditions apply. T&M, not to exceed.

Accepted By

Accepted Date

X _____

_____, 2021

Printed Name: _____

Title: _____



444 21st Street South · La Crosse, Wisconsin · 54601

August 13, 2021

David Rozeboom
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
Eau Claire Regional Office
1300 W. Clairemont Ave.
Eau Claire, WI 54701

**RE: Workplan and Schedule for Additional Site Investigation
La Crosse Airport PFAS Investigation
2850 Airport Dr, French Island, La Crosse, WI
WDNR BRRTS Activity # 02-32-587347**

Dear Mr. Rozeboom:

Coulee Environmental Solutions™, a division of The OS Group, LLC, (OSG) herein provides a workplan and schedule for additional site investigation for the above referenced La Crosse Airport PFAS Investigation.

Background

Please refer to the April 7, 2021, Interim Site Investigation Report for the results of prior investigation activities. The site is located at the La Crosse Regional Airport (LSE or the airport) on French Island in the Mississippi/Black River complex, in La Crosse County, WI. See Figure 1: Site Location Map.

Recent Activities

The following site investigation activities have been conducted at the airport since the April 7 Interim Site Investigation Report.

- **Water Level Measurements:** On June 18, water levels were measured in the monitoring wells & piezometers constructed as part of the site investigation. The resulting potentiometric surfaces and flow directions, depicted in Figure 2, were similar to those based on water levels observed in November 2020 and March 2021.
- **Private Well Sampling:** On June 22, 2021, a potable water sample was collected from the private well at 2222 Bainbridge Street, located in "Private Well Sampling Area 2." The sample was submitted to Pace Analytical Services, LLC, for PFAS analysis by WI-36 method. The lab results

were received on July 21, 2021 and conveyed to the property owners and occupant. The PFAS concentrations were below the Department's proposed enforcement standards and hazard index guidance, similar to levels in nearby wells. The lab report, letters to owners and occupant, and EQUIS file were submitted to the Department on July 23, 2021.

In addition, it is important to inform the Department of the results of resampling at one private well at 3313 Lakeshore Drive, outside the City's investigation area. The well was sampled by OSG at the request of the owner on March 3, 2021. An anomalously high PFOS detection of 250 ng/L was observed in the March 3, 2021 sample (results received March 26, 2021). The private well was resampled twice (April 8 and May 6, 2021), and PFOS was detected at 6.6 ng/L and 6.7 ng/L in those follow-up samples, both below the proposed enforcement standards and hazard index guidance.

Scope of Work

OSG proposes the following scope of work:

Equipment and Supply Blanks

1. Equipment and supply blank samples will be prepared for equipment and supplies that will come into contact with samples. Blanks will be prepared with laboratory-provided PFAS-free water. The blank samples will be analyzed for PFAS by WI-33 method. As possible, equipment and supply blank samples will analyzed prior to field investigation activities.

Groundwater and Soil

2. Install monitoring wells at three (3) locations, as depicted in Figure 3, attached, and subject to field verification and negotiation of access agreements. Monitoring wells will be 2-in diameter, screened with 15-foot screens intersecting the water table. Monitoring well construction will follow the requirements of ch. NR141, Wisconsin Administrative Code.
3. Install piezometers at two (2) locations nested with two of the above monitoring wells, as depicted in Figure 3, attached, and subject to field verification and negotiation of access agreements. Piezometers will be 2-in diameter, screened with 5-foot screens set at 30 feet below the water table. Piezometer construction will follow the requirements of ch. NR141, Wisconsin Administrative Code.
4. At each monitoring well / piezometer nest location continuous soil samples will be collected to the full drilling depth by hydraulic push probe (Geoprobe®). One sample from the top 4 feet below ground surface from each probe will be submitted to an analytical laboratory for PFAS analysis by WI-33 method.
5. Containerize drill cuttings investigative waste in 55-gallon, DOT-rated drums for off-site disposal.
6. Survey top of casing elevations and horizontal locations of monitoring wells and piezometers.

7. Configure each monitoring well and piezometer with a dedicated submersible pump.
8. Develop monitoring wells and piezometers per the requirements of ch. NR141, Wisconsin Administrative Code.
9. Sample the full expanded network of monitoring wells and piezometers for PFAS analysis by WI-33 method. Two (2) duplicate and two (2) field blank samples will be prepared and analyzed. Field blanks will be prepared with laboratory-provided PFAS-free water.
10. Containerize decontamination, development and purge water investigative waste for GAC pre-treatment and disposal via sanitary sewer.
11. Conduct four (4) quarterly water level measurements (one during groundwater sampling and 3 additional quarters) from the monitoring well and piezometer network using a PFAS-free water level indicator.

Surface Water and Sediments

12. Collect six (6) surface water samples from the Black River, at the locations depicted in Figure 3, attached. One (1) duplicate and one (1) field blank samples will be prepared and analyzed. Field blanks will be prepared with laboratory-provided PFAS-free water. Surface water samples will be submitted to a certified laboratory for PFAS analysis by WI-33 method.
13. Collect five (5) sediment samples from the Black River, at the locations depicted in Figure 3. Mid-stream samples will be collected via bottom grab dredge sampler. Near-shore samples may be collected with hand auger, spade, trowel, or bottom grab dredge sampler as conditions permit. Sediment samples will be homogenized and submitted to a certified laboratory for PFAS analysis by WI-33 method.
14. Geolocate sample locations by Trimble GPS.

Schedule

The proposed schedule for key tasks in the above scope of work is outlined below:

Surface water and sediment sampling	Mid to late August 2021
Soil sampling and monitoring well/piezometer construction	September 2021
Monitoring well/piezometer development	Late September / early October 2021
Monitoring well/piezometer sampling	Mid to late October
Quarterly water level measurements	January, April and July 2022

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Standard of Care

In performing this scope of work, OSG will exercise that degree of care and skill ordinarily exercised under similar circumstances, such as scope, schedule and budget, by firms in the environmental consulting profession performing substantially similar services and practicing at the same time in the same or similar locality.

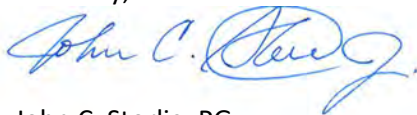
Certification

I, John C. Storlie, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Closing

If you have any question, please do not hesitate to call me.

Sincerely,



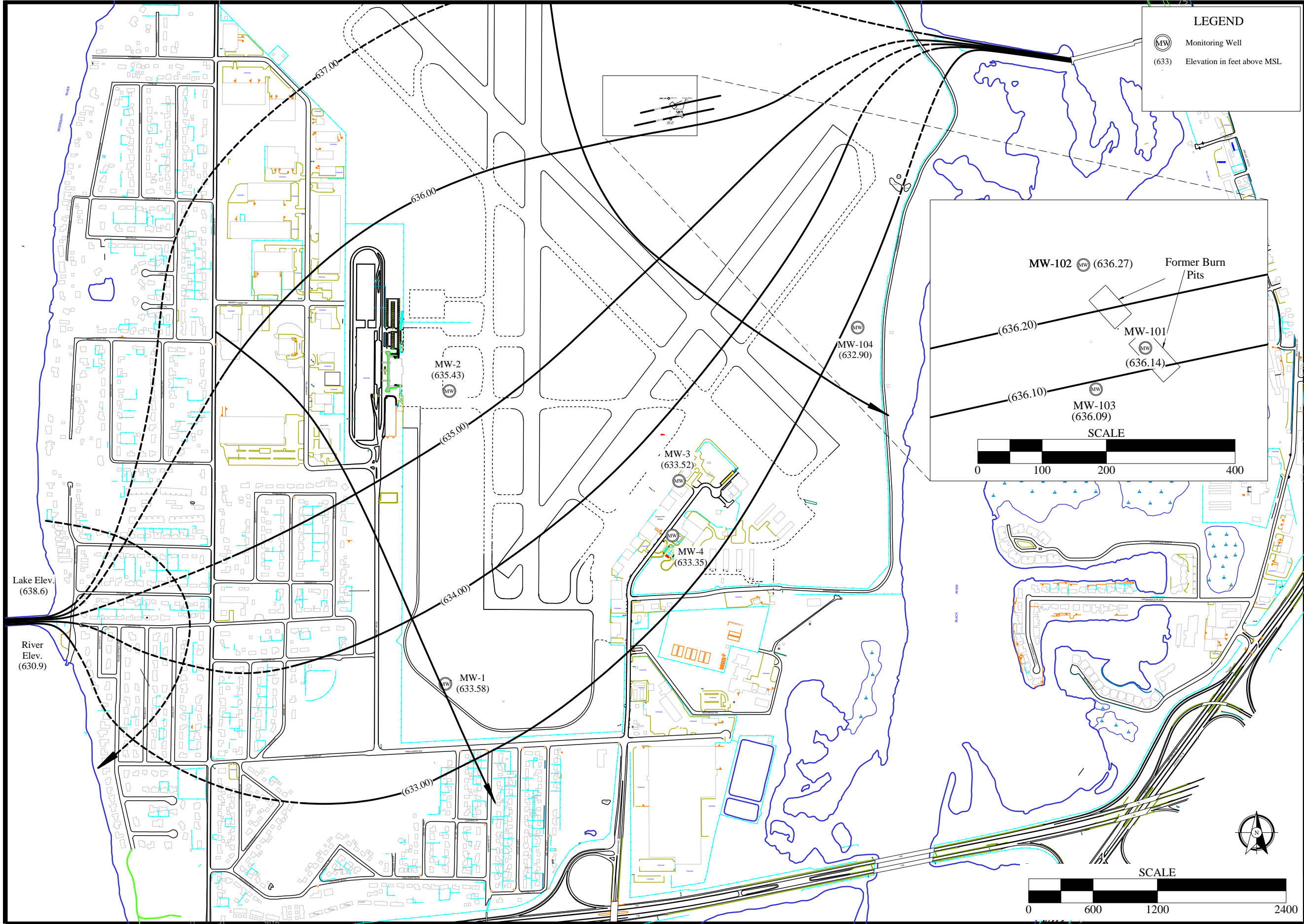
John C. Storlie, PG
Principal Hydrogeologist & Managing Member
Coulee Environmental Solutions™
A division of The OS Group, LLC
444 21st Street South
La Crosse, Wisconsin 54601
608.433.9389 – Direct
E-Mail Address: John.Storlie@theOSgrp.com

Attachments:

Figure 1: Site Location Map

Figure 2: Water Table Potentiometric Surface Map – June 18, 2021

Figure 3: Proposed Sampling Locations



Water Table Potentiometric Surface Map - June 18, 2021
 La Crosse Airport PFAS Investigation
 La Crosse, WI

Project No:	1901155
Drawing No:	
Scale:	
Drawn By:	SJO
Date Drawn:	07/06/21
Checked By:	JCS
Last Modified:	07/06/21
Sheet:	1 of 1
Fig:	2

Figure 3:
Proposed
Sampling
Locations



Legend

- Existing Monitoring Well
- Existing Piezometer
- Proposed Monitoring Well
- Proposed Piezometer Nest
- ▲ Proposed SW and/or Sediment Sample