

PROJ #250258.01	ADDENDUM #2	DATE: 02/09/2026
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NOTICE: This Addendum No.2, issued in accordance with the Contract Documents, is hereby incorporated into the Contract Documents. This information supersedes and updates all conflicting information as follows:

**CLARIFICATIONS & RESPONSES TO QUESTIONS**

Q1: Article 5.02 (3) indicates Geotechnical Baseline and Geotechnical Data Report are included in the bid documents but are not. Please provide.

R1: Please find the attached Boring Locations and the associated Geotechnical Boring Logs for your review.

Other available results can be obtained from the Cherry Capital Airport website at: <https://tvcairport.com/cherry-capital-airports-environmental-commitment-pfas/>

Q2: Please provide the Tax Exemption number, inferred in Article 21.01.

R2: This number will be provided to the successful bidder.

Q3: The details do not identify the lineal feet of security fence required. Please clarify.

R3: The estimated length of the temporary fence is ±770-feet

Q4: Has the FAA approved the proposed AOA security fence construction shown in Sheet C2?

R4: The fencing plan has been approved. Once installed, the fence will be inspected for acceptance.

Q5: Please clarify whether the work will be completed in the AOA but not on the ramp.

R5: Work will be completed in the AOA but not on the ramp.

Q6: Please provide the process to obtain badges for workers proposed for work in the AOA, the costs and the time required to obtain badges.

R6: The cost for an AOA badge is \$30 per person, which covers the non-refundable background check and administrative processing fees. The process involves two separate appointments: an initial visit for fingerprinting and identity verification (requiring two forms of government ID), followed by a mandatory online security and safety training course that takes approximately 45 minutes to complete. Once the TSA background check clears, typically within 3 to 10 business days, you will return for a final appointment to have the physical badge issued. Total administrative time per employee should be estimated at roughly three hours, but the end-to-end processing timeline usually spans one to two weeks from the initial application.

Q7: Who will be responsible for securing the gate to the AOA?

R7: The Contractor is responsible for securing the gate at Judson Street during completion of the work.

Q8: Section 115-5.1, Payment for Construction Safety Fence, per lineal foot, is not shown on the bid form. Also, during the pre-bid meeting it was stated that after PFAS remediation is complete,

the fence will be turned over to the Terminal Expansion Contractor. Please clarify if the existing cost structure is to include the cost to rent the fence to the Terminal Expansion Contractor, and if so, how many months should be included. If this is the case, will a revised Bid Form be issued to include the additional rental?

R8: The chain-link fence will be provided, installed, and maintained for a period of two months under this contract. Provision and installation of the fence shall be included in the lump sum price for Bid Item #2. Maintenance and monthly rental charges shall be included in Bid Item #3.

The Owner will negotiate with the contractor, or fencing subcontractor if fencing isn't provided by the prime contractor, to transfer the rental and removal of the fence to appropriate contractor working on the terminal expansion. It is anticipated that this negotiation can be completed in the 90-day substantial completion window. If additional time is required, then a change order will be processed to account for additional fence rental and maintenance.

Q9: Will VSR samples be required prior to backfilling? If so, who will obtain and pay for the costs and what turn around time (and associated down time) will be incurred?

R9: Verification soil samples are required before backfilling begins to ensure the remediation goals are met within the excavation limits. According to Section 01025 and the technical provisions for excavation, the Engineer will collect these samples while the Owner covers the laboratory testing fees, but the Contractor must manage the workflow around a standard seventy-two-hour turnaround period. You should anticipate potential standby time while waiting for these results, as backfilling cannot proceed until the Engineer provides formal approval of the soil quality data.

Q10: In what Bid Item is the removal in Section 02070, 3.02 (A) to be included?

R10: The demolition and removal activities described are to be included in the lump sum price for Bid Item Number 2, which is designated as Safety and Security.

Q11: When is a Contract Award expected? Will the Owner issue a Notice of Intent to Award be issued, which will allow the winning bidder to obtain P&P Bonds?

R11: The contract award is anticipated at the February 24, 2026, NRAA board meeting. A notice will not be issued until the board has finalized the selection.

Q12: Please provide a copy of the drawing that was referenced during the pre-bid meeting.

R12: The updated drawings in Addendum No.1 have all the relevant information.

Q13: Please clarify what Bid Item shall include the costs of the proposed 4-foot construction fence referenced in the pre-bid meeting.

R13: Provision and installation shall be included in the lump sum price for Bid Item #2. Maintenance and monthly rental charges, if any, shall be included in Bid Item #3..

Q14: Please clarify whether all construction equipment and vehicles entering the AOA must have security "Cab Cards" issued by airport security and, if so, the cost and time required to obtain.

R14: Cab Cards, as issued under the International Registration Plan, are not required for this contract. All personnel entering the AOA must either be badged by the Cherry Capital Airport (See Q# 6) or be escorted by a badged individual, Escorted individuals must

be under the direct control (e.g. riding in the vehicle cab or within arms reach) of the badged escort.

Q15: For the "No Construction Vehicles" sign, what letter/background colors and grade of reflective sheeting are to be used?

R15: An orange background and black font with a reflectivity not less than 75cd/lx/m2 as specified in Table 2A-5 of the Michigan Manual on Uniform Traffic Control Devices.

Q16: Will the 4' orange fence or the signs require any additional lights or other indicators?

R16: Neither the orange fence nor the "No Construction Traffic" signs require lights or other indicators.

Q17: For the temporary fence are 8'x12' panels on supported stands acceptable? If panels can't be used, can you provide specifications for the temporary fence materials?

R17: Yes, 8'x12' panels on supported stands, with concrete ballast, are acceptable. Fencing mesh (fabric) shall be 9 gauge, 2" square mesh.

**CHANGES TO THE CONTRACT DOCUMENTS:**

1. Replace the first paragraph of Section C-111 with the following:

PFAS Soil Removal Action

Bids for the construction of the Project will be received at the Northwest Regional Airport Authority Administration Office located at 727 Fly Don't Drive, Traverse City, Michigan 49686 until **Monday, February 16, 2026, at 4:00 p.m.** local time. At that time the Bids received will be publicly opened and read.

In Section C-430, replace the bid due date of February 11, 2026, with February 16, 2026.

2. Revise the response to question 12 of Addendum #1 to read as follows:

Q12: Would driven fence posts be acceptable in lieu of 2' x 2' x 6' bin blocks?

R12: No, driven posts are **NOT** acceptable.

**ADDENDUM ACKNOWLEDGMENT:**

This Addendum No. 2 shall be attached to and shall become a part of the Contract Documents. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may result in the rejection of the Bid.

**ATTACHMENTS:**

**Soil Boring Locations with Lab Results**  
**Environmental Soil Boring Logs**  
**VAP-2 Boring Log**  
**Sheet S1**

**END SECTION**

**DISTRIBUTION:**

All Plan Holders (via email)

P:\250258\CADD-Data\C3D\202263000302\_PS\_2022\_SB\_RESULTS.dwg Tab: A4 Runway 31\_SB\_RESULTS Saved by: djthomas 2/5/2026 3:45 PM Plotted by: Dan Thomas 2/5/2026 3:56 PM

A4-09-2'		RESULTS		A4-09-7.5'		RESULTS	
DATE	04/11/24	DATE	04/11/24	DATE	04/11/24	DATE	04/11/24
PFNA	1,500	PFNA	3,400	PFNA	<63	PFNA	<56
PFOA	110	PFOA	<67	PFOA	<63	PFOA	<56
PFHxA	<48	PFHxA	<67	PFHxA	<63	PFHxA	<56
PFOS	2,000	PFOS	3,500	PFOS	1,200	PFOS	1,400
PFHxS	<48	PFHxS	<67	PFHxS	<63	PFHxS	<56
PFBS	<48	PFBS	<67	PFBS	<63	PFBS	<56
HFPO-DA	<48	HFPO-DA	<67	HFPO-DA	<63	HFPO-DA	<56

A4-10-2'		RESULTS		A4-10-7.5'		RESULTS	
DATE	04/10/24	DATE	04/10/24	DATE	04/10/24	DATE	04/10/24
PFNA	1,200	PFNA	750	PFNA	980	PFNA	1,900
PFOA	690	PFOA	450	PFOA	270	PFOA	80
PFHxA	86	PFHxA	<61	PFHxA	<47	PFHxA	<66
PFOS	10,000	PFOS	450	PFOS	2,700	PFOS	780
PFHxS	220	PFHxS	150	PFHxS	94	PFHxS	<66
PFBS	<49	PFBS	<61	PFBS	<47	PFBS	<66
HFPO-DA	<49	HFPO-DA	<61	HFPO-DA	<47	HFPO-DA	<66

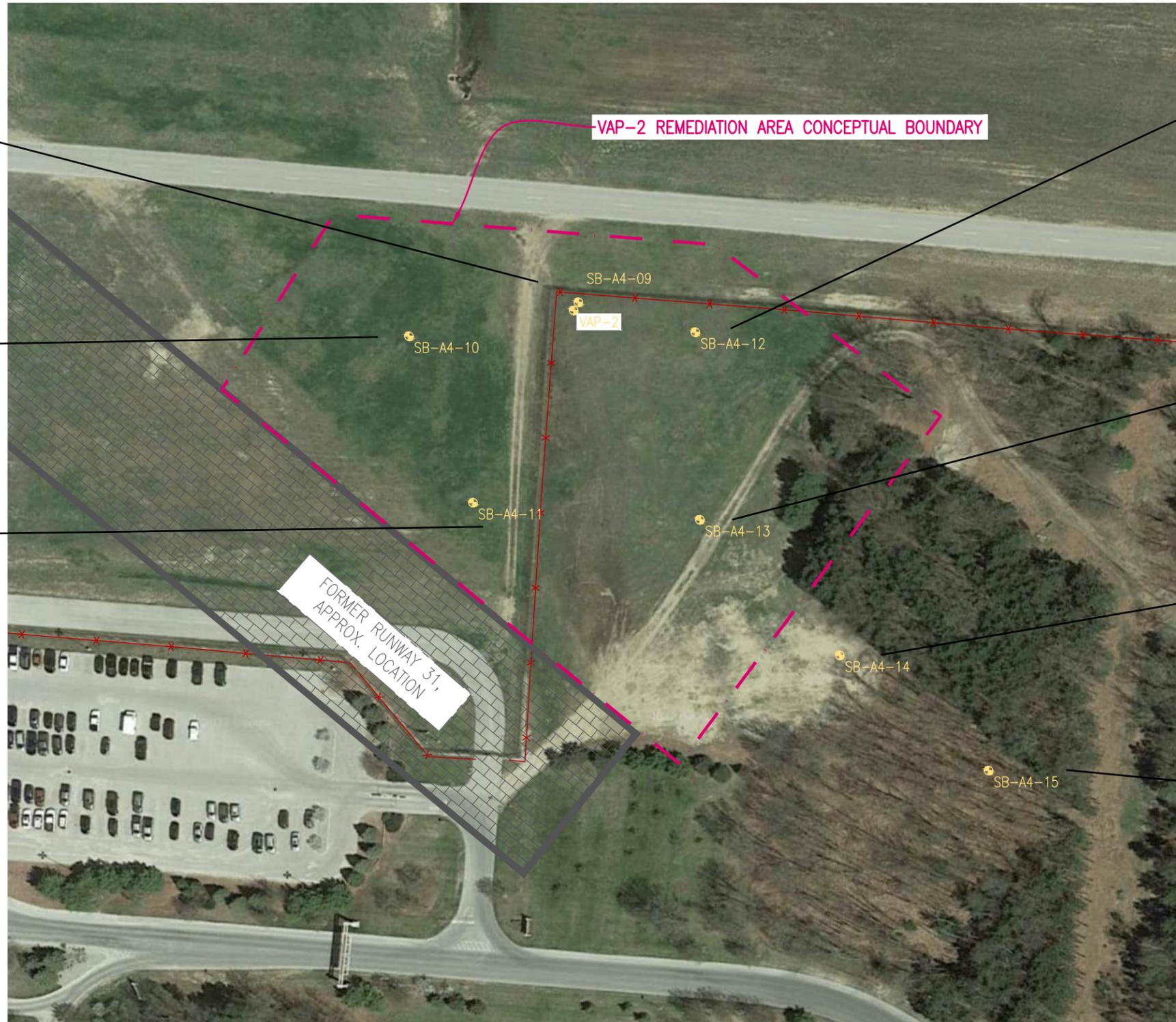
A4-11-2'		RESULTS		A4-11-7.5'		RESULTS	
DATE	04/10/24	DATE	04/10/24	DATE	04/10/24	DATE	04/10/24
PFNA	1,400	PFNA	91	PFNA	<52	PFNA	<72
PFOA	520	PFOA	200	PFOA	160	PFOA	<72
PFHxA	<60	PFHxA	<69	PFHxA	<52	PFHxA	<72
PFOS	2,500	PFOS	690	PFOS	950	PFOS	99
PFHxS	170	PFHxS	<69	PFHxS	<52	PFHxS	<72
PFBS	<60	PFBS	<69	PFBS	<52	PFBS	<72
HFPO-DA	<60	HFPO-DA	<69	HFPO-DA	<52	HFPO-DA	<72

A4-12-2'		RESULTS		A4-12-7.5'		RESULTS	
DATE	04/11/24	DATE	04/11/24	DATE	04/11/24	DATE	04/11/24
PFNA	<63	PFNA	<56	PFNA	<63	PFNA	<56
PFOA	<63	PFOA	<56	PFOA	<63	PFOA	<56
PFHxA	<63	PFHxA	<56	PFHxA	<63	PFHxA	<56
PFOS	1,200	PFOS	1,400	PFOS	<63	PFOS	<56
PFHxS	<63	PFHxS	<56	PFHxS	<63	PFHxS	<56
PFBS	<63	PFBS	<56	PFBS	<63	PFBS	<56
HFPO-DA	<63	HFPO-DA	<56	HFPO-DA	<63	HFPO-DA	<56

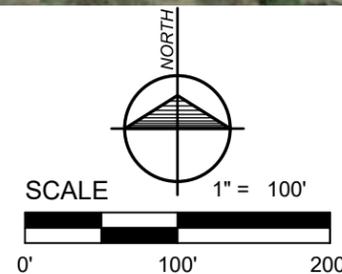
A4-13-2'		RESULTS		A4-13-7.5'		RESULTS	
DATE	04/11/24	DATE	04/11/24	DATE	04/11/24	DATE	04/11/24
PFNA	980	PFNA	1,900	PFNA	270	PFNA	80
PFOA	270	PFOA	<66	PFOA	<47	PFOA	<66
PFHxA	<47	PFHxA	<66	PFHxA	2,700	PFHxA	780
PFOS	2,700	PFOS	<66	PFOS	94	PFOS	<66
PFHxS	94	PFHxS	<66	PFHxS	<47	PFHxS	<66
PFBS	<47	PFBS	<66	PFBS	<47	PFBS	<66
HFPO-DA	<47	HFPO-DA	<66	HFPO-DA	<47	HFPO-DA	<66

A4-14-2'		RESULTS		A4-14-7.5'		RESULTS	
DATE	04/11/24	DATE	04/11/24	DATE	04/11/24	DATE	04/11/24
PFNA	<52	PFNA	<72	PFNA	<52	PFNA	<72
PFOA	160	PFOA	<72	PFOA	<52	PFOA	<72
PFHxA	<52	PFHxA	<72	PFHxA	950	PFHxA	99
PFOS	950	PFOS	<72	PFOS	<52	PFOS	<72
PFHxS	<52	PFHxS	<72	PFHxS	<52	PFHxS	<72
PFBS	<52	PFBS	<72	PFBS	<52	PFBS	<72
HFPO-DA	<52	HFPO-DA	<72	HFPO-DA	<52	HFPO-DA	<72

A4-15-2'		RESULTS		A4-15-7.5'		RESULTS	
DATE	04/11/24	DATE	04/11/24	DATE	04/11/24	DATE	04/11/24
PFNA	<51	PFNA	<80	PFNA	<51	PFNA	<80
PFOA	<51	PFOA	<80	PFOA	<51	PFOA	<80
PFHxA	<51	PFHxA	<80	PFHxA	<51	PFHxA	<80
PFOS	<51	PFOS	<80	PFOS	<51	PFOS	<80
PFHxS	<51	PFHxS	<80	PFHxS	<51	PFHxS	<80
PFBS	<51	PFBS	<80	PFBS	<51	PFBS	<80
HFPO-DA	<51	HFPO-DA	<80	HFPO-DA	<51	HFPO-DA	<80



Apr. 2024 SOIL SAMPLES COLLECTED FROM RANGE OF 2-7.5 FEET BELOW GRADE.  
SOIL SAMPLE RESULTS PRESENTED IN ng/Kg (PPT)



- LEGEND**
- SOIL SAMPLE LOCATION (2024)
  - PROPOSED SOIL SAMPLE LOCATION

PROPOSAL: 07/29/2025  
Date: 1"=100'  
Scale: DJT  
Drawn: AES  
Chk'd.: JES  
Rev.: 02/05/2026

**VAP-2 AREA REMOVAL ACTION  
TVC PFAS Remediation Grant  
NRAA / Cherry Capital Airport**

Location:  
CHERRY CAPITAL AIRPORT  
PART OF SEC. 13, T27N, R11W  
GARFIELD TOWNSHIP  
GRAND TRAVERSE COUNTY, MICHIGAN  
Sheet 1 of 1



**PROJECT:** Cherry Capital Airport- PFAS  
**PROJECT NO.:** 2022630003.03  
**PROJECT LOCATION:** Traverse City, Michigan  
**CLIENT:** Northwest Regional Airport Authority  
**DRILLING COMPANY:** Gosling Czubak Engineering  
**DRILLER:** T. Ackler/J.Rawlin **RIG:** NA

**LOG OF BORING:** SS-A1-11  
**LOGGED BY:** T. Ackler **DATE:** April 10, 2024  
**BOREHOLE DIAMETER (IN):** 3.5 in  
**DRILLING METHOD:** Hand Auger  
**TOTAL DEPTH (FT):** 8  
**GROUND ELEVATION (FT):** 615.28

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Graphic	Description (See Boring Log Key)	Depth (feet)	Ground Elevation (feet)	Soil Sample Type	Sample No.	GW Sample Type	Laboratory ID	TEST RESULTS		
								TOTAL PFAS (ppt)	PFOS CONC (ppt)	PFOA CONC (ppt)
	Sandy TOPSOIL - little gravel - dark brown	0								
	Silty fine to medium SAND (SM) - little gravel - brown	0.67								
		2	614		HA1		SS-A1-12-2	3,560	90	840
		4	612							
		6	610							
		8	608		HA2		SS-A1-12-8	2,484	<61	650
	Boring terminated at 8 ft.	10	606							
		12	604							

SS-A1-11 was hand augered to approximately 8-foot bgs. Upon completion the boring was backfilled with soil cuttings.

Soil Sample Results (ng/kg)



**PROJECT:** Cherry Capital Airport- PFAS  
**PROJECT NO.:** 2022630003.03  
**PROJECT LOCATION:** Traverse City, Michigan  
**CLIENT:** Northwest Regional Airport Authority  
**DRILLING COMPANY:** Gosling Czubak Engineering  
**DRILLER:** T. Ackler/J.Rawlin **RIG:** NA

**LOG OF BORING:** **SS-A1-12**  
**LOGGED BY:** T. Ackler **DATE:** April 10, 2024  
**BOREHOLE DIAMETER (IN):** 3.5 in  
**DRILLING METHOD:** Hand Auger  
**TOTAL DEPTH (FT):** 8  
**GROUND ELEVATION (FT):** 614.79

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Graphic	Description (See Boring Log Key)	Depth (feet)	Ground Elevation (feet)	Soil Sample Type	Sample No.	GW Sample Type	Laboratory ID	TEST RESULTS			
								TOTAL PFAS (ppt)	PFOS CONC (ppt)	PFOA CONC (ppt)	
	Sandy TOPSOIL - dark brown	0									
	Silty fine to medium SAND (SM) - little gravel - brown	0.5	614								
		2			HA1		SS-A1-12-2	1,140	140	<61	
			612								
		4									
			610								
		6									
			608								
		8				HA2		SS-A1-12-8	1,770	<45	170
		Boring terminated at 8 ft.		606							
			10								
				604							
		12									

SS-A1-12 was hand augered to approximately 8-foot bgs. Upon completion the boring was backfilled with soil cuttings.

Soil Sample Results (ng/kg)



**PROJECT:** Cherry Capital Airport- PFAS  
**PROJECT NO.:** 2022630003.03  
**PROJECT LOCATION:** Traverse City, Michigan  
**CLIENT:** Northwest Regional Airport Authority  
**DRILLING COMPANY:** Gosling Czubak Engineering  
**DRILLER:** T. Ackler/J.Rawlin **RIG:** NA

**LOG OF BORING:** SS-A1-13  
**LOGGED BY:** T. Ackler **DATE:** April 10, 2024  
**BOREHOLE DIAMETER (IN):** 3.5 in  
**DRILLING METHOD:** Hand Auger  
**TOTAL DEPTH (FT):** 4  
**GROUND ELEVATION (FT):** 604.63

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Graphic	Description (See Boring Log Key)	Depth (feet)	Ground Elevation (feet)	Soil Sample Type	Sample No.	GW Sample Type	Laboratory ID	TEST RESULTS		
								TOTAL PFAS (ppt)	PFOS CONC (ppt)	PFOA CONC (ppt)
  	Sandy TOPSOIL - dark brown	0	604							
	Silty fine to medium SAND (SM) - moist - brown	1								
		2	602	HA1	SS-A1-13-2	4,586	<51	<51		
	Silty fine to medium SAND (SM) - wet - brown	4	600	HA2	SS-A1-13-3.75	9,860	<67	<67		
	Boring terminated at 4 ft.									
		6	598							
		8	596							
		10	594							
		12								
			592							

SS-A1-13 was hand augered to approximately 4-feet bgs. Upon completion the boring was backfilled with soil cuttings.

Soil Sample Results (ng/kg)



**PROJECT:** Cherry Capital Airport- PFAS  
**PROJECT NO.:** 2022630003.03  
**PROJECT LOCATION:** Traverse City, Michigan  
**CLIENT:** Northwest Regional Airport Authority  
**DRILLING COMPANY:** Gosling Czubak Engineering  
**DRILLER:** T. Ackler/J.Rawlin **RIG:** NA

**LOG OF BORING:** SS-A1-14  
**LOGGED BY:** T. Ackler **DATE:** April 10, 2024  
**BOREHOLE DIAMETER (IN):** 3.5 in  
**DRILLING METHOD:** Hand Auger  
**TOTAL DEPTH (FT):** 8  
**GROUND ELEVATION (FT):** 613.75

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Graphic	Description (See Boring Log Key)	Depth (feet)	Ground Elevation (feet)	Soil Sample Type	Sample No.	GW Sample Type	Laboratory ID	TEST RESULTS		
								TOTAL PFAS (ppt)	PFOS CONC (ppt)	PFOA CONC (ppt)
	Sandy TOPSOIL - dark brown	0								
	Silty fine to medium SAND (SM) - brown	0.67								
		2	612		HA1		SS-A1-14-2	1,810	170	320
		4	610							
		6	608							
		8	606		HA2		SS-A1-14-8	137	<42	<42
	Boring terminated at 8 ft.									
		10	604							
		12	602							

SS-A1-14 was hand augered to approximately 8-foot bgs. Upon completion the boring was backfilled with soil cuttings.

Soil Sample Results (ng/kg)



**PROJECT:** Cherry Capital Airport- PFAS  
**PROJECT NO.:** 2022630003.03  
**PROJECT LOCATION:** Traverse City, Michigan  
**CLIENT:** Northwest Regional Airport Authority  
**DRILLING COMPANY:** Gosling Czubak Engineering  
**DRILLER:** T. Ackler/J.Rawlin **RIG:** NA

**LOG OF BORING:** SS-A4-04  
**LOGGED BY:** T. Ackler **DATE:** April 10, 2024  
**BOREHOLE DIAMETER (IN):** 3.5 in  
**DRILLING METHOD:** Hand Auger  
**TOTAL DEPTH (FT):** 2  
**GROUND ELEVATION (FT):** 612.64

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Graphic	Description (See Boring Log Key)	Depth (feet)	Ground Elevation (feet)	Soil Sample Type	Sample No.	GW Sample Type	Laboratory ID	TEST RESULTS		
								TOTAL PFAS (ppt)	PFOS CONC (ppt)	PFOA CONC (ppt)
	Sandy TOPSOIL - dark brown	0								
		-0.5	612							
	Silty fine to medium SAND (SM) - little gravel - moist - brown									
		-1.75			HA1		SS-A4-04-1.75	43,627	640	5,500
	Silty fine to medium SAND (SM) - wet - brown	2								
	Boring terminated at 2 ft.		610							
		4		608						
		6		606						
		8		604						
		10		602						
		12								
				600						

SS-A4-04 was hand augered to approximately 2-feet bgs. Upon completion the boring was backfilled with soil cuttings.

Soil Sample Results (ng/kg)



**PROJECT:** Cherry Capital Airport- PFAS  
**PROJECT NO.:** 2022630003.03  
**PROJECT LOCATION:** Traverse City, Michigan  
**CLIENT:** Northwest Regional Airport Authority  
**DRILLING COMPANY:** Gosling Czubak Engineering  
**DRILLER:** T. Ackler/J.Rawlin **RIG:** NA

**LOG OF BORING:** SS-A4-05  
**LOGGED BY:** T. Ackler **DATE:** April 10, 2024  
**BOREHOLE DIAMETER (IN):** 3.5 in  
**DRILLING METHOD:** Hand Auger  
**TOTAL DEPTH (FT):** 5.5  
**GROUND ELEVATION (FT):** 615.26

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Graphic	Description (See Boring Log Key)	Depth (feet)	Ground Elevation (feet)	Soil Sample Type	Sample No.	GW Sample Type	Laboratory ID	TEST RESULTS		
								TOTAL PFAS (ppt)	PFOS CONC (ppt)	PFOA CONC (ppt)
	Sandy TOPSOIL - dark brown	0								
	Silty fine to medium SAND (SM) - little gravel - dark brown	0.5								
	Silty fine to medium SAND (SM) - little gravel - moist - brown	1.5	614							
		2		HA1			SS-A4-05-2	22,180	<100	770
			612							
		4								
		5.25	610	HA2			SS-A4-05-5.25	8,546	86	450
	Silty fine to medium SAND (SM) - wet - brown	6								
	Boring terminated at 5.5 ft.		608							
		8								
			606							
		10								
			604							
		12								

SS-A4-05 was hand augered to approximately 5.5-feet bgs. Upon completion the boring was backfilled with soil cuttings.

Soil Sample Results (ng/kg)



**PROJECT:** Cherry Capital Airport- PFAS  
**PROJECT NO.:** 2022630003.03  
**PROJECT LOCATION:** Traverse City, Michigan  
**CLIENT:** Northwest Regional Airport Authority  
**DRILLING COMPANY:** Gosling Czubak Engineering  
**DRILLER:** T. Ackler/J.Rawlin **RIG:** NA

**LOG OF BORING:** SS-A4-06  
**LOGGED BY:** T. Ackler **DATE:** April 10, 2024  
**BOREHOLE DIAMETER (IN):** 3.5 in  
**DRILLING METHOD:** Hand Auger  
**TOTAL DEPTH (FT):** 4  
**GROUND ELEVATION (FT):** 612.90

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Graphic	Description (See Boring Log Key)	Depth (feet)	Ground Elevation (feet)	Soil Sample Type	Sample No.	GW Sample Type	Laboratory ID	TEST RESULTS		
								TOTAL PFAS (ppt)	PFOS CONC (ppt)	PFOA CONC (ppt)
	Sandy TOPSOIL - dark brown	0								
	Silty fine to medium SAND (SM) - brown	0.5	612							
		2		HA1			SS-A4-06-2	1,735	210	130
			610							
	Silty fine to medium SAND (SM) - moist - brown			HA2			SS-A4-06-3.5	772	150	82
	Silty fine to medium SAND (SM) - wet - brown	4								
	Boring terminated at 4 ft.		608							
		6	606							
		8	604							
		10	602							
		12								

SS-A4-06 was hand augered to approximately 4-foot bgs. Upon completion the boring was backfilled with soil cuttings.

Soil Sample Results (ng/kg)



**PROJECT:** Cherry Capital Airport- PFAS  
**PROJECT NO.:** 2022630003.03  
**PROJECT LOCATION:** Traverse City, Michigan  
**CLIENT:** Northwest Regional Airport Authority  
**DRILLING COMPANY:** Gosling Czubak Engineering  
**DRILLER:** T. Ackler/J.Rawlin **RIG:** NA

**LOG OF BORING:** SS-A4-07  
**LOGGED BY:** T. Ackler **DATE:** April 10, 2024  
**BOREHOLE DIAMETER (IN):** 3.5 in  
**DRILLING METHOD:** Hand Auger  
**TOTAL DEPTH (FT):** 2  
**GROUND ELEVATION (FT):** 612.35

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Graphic	Description (See Boring Log Key)	Depth (feet)	Ground Elevation (feet)	Soil Sample Type	Sample No.	GW Sample Type	Laboratory ID	TEST RESULTS		
								TOTAL PFAS (ppt)	PFOS CONC (ppt)	PFOA CONC (ppt)
	Sandy TOPSOIL - dark brown	0	612							
	Silty fine to medium SAND (SM) - moist - brown	0.5								
	Silty fine to medium SAND (SM) - wet - brown	1.75			HA1		SS-A4-07-1.75	301	54	75
	Boring terminated at 2 ft.	2	610							
		4	608							
		6	606							
		8	604							
		10	602							
		12	600							

SS-A4-07 was hand augered to approximately 2-feet bgs. Upon completion the boring was backfilled with soil cuttings.

Soil Sample Results (ng/kg)



**PROJECT:** Cherry Capital Airport- PFAS  
**PROJECT NO.:** 2022630003.03  
**PROJECT LOCATION:** Traverse City, Michigan  
**CLIENT:** Northwest Regional Airport Authority  
**DRILLING COMPANY:** Gosling Czubak Engineering  
**DRILLER:** T. Ackler/J.Rawlin **RIG:** NA

**LOG OF BORING:** SS-A4-08  
**LOGGED BY:** T. Ackler **DATE:** April 10, 2024  
**BOREHOLE DIAMETER (IN):** 3.5 in  
**DRILLING METHOD:** Hand Auger  
**TOTAL DEPTH (FT):** 1  
**GROUND ELEVATION (FT):** 611.23

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Graphic	Description (See Boring Log Key)	Depth (feet)	Ground Elevation (feet)	Soil Sample Type	Sample No.	GW Sample Type	Laboratory ID	TEST RESULTS		
								TOTAL PFAS (ppt)	PFOS CONC (ppt)	PFOA CONC (ppt)
	Sandy muck - wet - dark brown/black	0	611.23		HA1		SS-A4-08-3in	7,520	1,800	620
	Boring terminated at 1 ft.	1	610							
		2								
			608							
		4								
			606							
		6								
			604							
		8								
			602							
		10								
			600							
		12								

SS-A4-08 was hand augered to approximately 1-foot bgs. Upon completion the boring was backfilled with soil cuttings.

Soil Sample Results (ng/kg)



**PROJECT:** Cherry Capital Airport- PFAS  
**PROJECT NO.:** 2022630003.03  
**PROJECT LOCATION:** Traverse City, Michigan  
**CLIENT:** Northwest Regional Airport Authority  
**DRILLING COMPANY:** Gosling Czubak Engineering  
**DRILLER:** T. Ackler/J.Rawlin **RIG:** NA

**LOG OF BORING:** **SS-A4-09**  
**LOGGED BY:** T. Ackler **DATE:** April 10, 2024  
**BOREHOLE DIAMETER (IN):** 3.5 in  
**DRILLING METHOD:** Hand Auger  
**TOTAL DEPTH (FT):** 8  
**GROUND ELEVATION (FT):** 614.03

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Graphic	Description (See Boring Log Key)	Depth (feet)	Ground Elevation (feet)	Soil Sample Type	Sample No.	GW Sample Type	Laboratory ID	TEST RESULTS		
								TOTAL PFAS (ppt)	PFOS CONC (ppt)	PFOA CONC (ppt)
	Sandy TOPSOIL - little gravel - dark brown	0	614							
	Silty fine to medium SAND (SM) - brown	0.5								
		2	612		HA1		SS-A4-09-2	3,785	2,000	110
		4	610							
		6	608							
	Silty fine to medium SAND (SM) - moist - brown									
		8	606		HA2		SS-A4-09-7.5	10,570	3,500	<67
	Silty fine to medium SAND (SM) - wet - brown									
	Boring terminated at 8 ft.									
		10	604							
		12	602							

SS-A4-09 was hand augered to approximately 8-foot bgs. Upon completion the boring was backfilled with soil cuttings.

Soil Sample Results (ng/kg)



**PROJECT:** Cherry Capital Airport- PFAS  
**PROJECT NO.:** 2022630003.03  
**PROJECT LOCATION:** Traverse City, Michigan  
**CLIENT:** Northwest Regional Airport Authority  
**DRILLING COMPANY:** Gosling Czubak Engineering  
**DRILLER:** T. Ackler/J.Rawlin **RIG:** NA

**LOG OF BORING:** SS-A4-10  
**LOGGED BY:** T. Ackler **DATE:** April 10, 2024  
**BOREHOLE DIAMETER (IN):** 3.5 in  
**DRILLING METHOD:** Hand Auger  
**TOTAL DEPTH (FT):** 8  
**GROUND ELEVATION (FT):** 614.42

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Graphic	Description (See Boring Log Key)	Depth (feet)	Ground Elevation (feet)	Soil Sample Type	Sample No.	GW Sample Type	Laboratory ID	TEST RESULTS		
								TOTAL PFAS (ppt)	PFOS CONC (ppt)	PFOA CONC (ppt)
	Silty fine SAND (SM) - heavy gravel - dark brown	0					SS-A4-10-2	32,107	10,000	690
		614								
	2		HA1							
	612									
	4									
	610									
	6									
	608									
	Silty fine to medium SAND (SM) - moist - light brown			HA2						
	Silty fine to medium SAND (SM) - wet - light brown	8								
	Boring terminated at 8 ft.	606								
	10									
	604									
12										
602										

SS-A4-10 was hand augered to approximately 8-foot bgs. Upon completion the boring was backfilled with soil cuttings.

Soil Sample Results (ng/kg)



**PROJECT:** Cherry Capital Airport- PFAS  
**PROJECT NO.:** 2022630003.03  
**PROJECT LOCATION:** Traverse City, Michigan  
**CLIENT:** Northwest Regional Airport Authority  
**DRILLING COMPANY:** Gosling Czubak Engineering  
**DRILLER:** T. Ackler/J.Rawlin **RIG:** NA

**LOG OF BORING:** **SS-A4-11**  
**LOGGED BY:** T. Ackler **DATE:** April 10, 2024  
**BOREHOLE DIAMETER (IN):** 3.5 in  
**DRILLING METHOD:** Hand Auger  
**TOTAL DEPTH (FT):** 8  
**GROUND ELEVATION (FT):** 614.56

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Graphic	Description (See Boring Log Key)	Depth (feet)	Ground Elevation (feet)	Soil Sample Type	Sample No.	GW Sample Type	Laboratory ID	TEST RESULTS		
								TOTAL PFAS (ppt)	PFOS CONC (ppt)	PFOA CONC (ppt)
	Sandy TOPSOIL - dark brown	0								
	Silty fine to medium SAND (SM) - light brown		614							
			2		HA1	SS-A4-11-2	4,685	2,500	520	
			612							
			4							
			610							
			6							
	Silty fine to medium SAND (SM) - moist - light brown		608							
			8		HA2	SS-A4-11-7.5	981	690	200	
	Silty fine to medium SAND (SM) - wet - light brown									
		Boring terminated at 8 ft.		606						
			10							
		604								
		12								
		602								

SS-A4-11 was hand augered to approximately 8-feet bgs. Upon completion the boring was backfilled with soil cuttings.

Soil Sample Results (ng/kg)



**PROJECT:** Cherry Capital Airport- PFAS  
**PROJECT NO.:** 2022630003.03  
**PROJECT LOCATION:** Traverse City, Michigan  
**CLIENT:** Northwest Regional Airport Authority  
**DRILLING COMPANY:** Gosling Czubak Engineering  
**DRILLER:** T. Ackler/J.Rawlin **RIG:** NA

**LOG OF BORING:** SS-A4-12  
**LOGGED BY:** T. Ackler **DATE:** April 10, 2024  
**BOREHOLE DIAMETER (IN):** 3.5 in  
**DRILLING METHOD:** Hand Auger  
**TOTAL DEPTH (FT):** 8  
**GROUND ELEVATION (FT):** 614.79

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Graphic	Description (See Boring Log Key)	Depth (feet)	Ground Elevation (feet)	Soil Sample Type	Sample No.	GW Sample Type	Laboratory ID	TEST RESULTS		
								TOTAL PFAS (ppt)	PFOS CONC (ppt)	PFOA CONC (ppt)
	Sandy TOPSOIL - little gravel - dark brown	0								
	Silty fine to medium SAND (SM) - brown	0.5	614							
		2		HA1		SS-A4-12-2	2,360	1,200	<63	
			612							
		4								
			610							
		6								
	Silty fine to medium SAND (SM) - moist - brown		608							
	Silty fine to medium SAND (SM) - wet - brown	8		HA2		SS-A4-12-7.5	1,550	1,400	<56	
	Boring terminated at 8 ft.		606							
		10								
			604							
		12								

SS-A4-12 was hand augered to approximately 8-foot bgs. Upon completion the boring was backfilled with soil cuttings.

Soil Sample Results (ng/kg)



**PROJECT:** Cherry Capital Airport- PFAS  
**PROJECT NO.:** 2022630003.03  
**PROJECT LOCATION:** Traverse City, Michigan  
**CLIENT:** Northwest Regional Airport Authority  
**DRILLING COMPANY:** Gosling Czubak Engineering  
**DRILLER:** T. Ackler/J.Rawlin **RIG:** NA

**LOG OF BORING:** **SS-A4-13**  
**LOGGED BY:** T. Ackler **DATE:** April 10, 2024  
**BOREHOLE DIAMETER (IN):** 3.5 in  
**DRILLING METHOD:** Hand Auger  
**TOTAL DEPTH (FT):** 8  
**GROUND ELEVATION (FT):** 613.90

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Graphic	Description (See Boring Log Key)	Depth (feet)	Ground Elevation (feet)	Soil Sample Type	Sample No.	GW Sample Type	Laboratory ID	TEST RESULTS		
								TOTAL PFAS (ppt)	PFOS CONC (ppt)	PFOA CONC (ppt)
	Sandy TOPSOIL - little gravel - dark brown	0								
	Silty fine to medium SAND (SM) - brown	0.5								
		2	612		HA1		SS-A4-13-2	4,164	2,700	270
		4	610							
		6	608							
	Silty fine to medium SAND (SM) - moist - brown									
		8	606		HA2		SS-A4-13-7.5	2,760	780	80
	Silty fine to medium SAND (SM) - wet - brown									
	Boring terminated at 8 ft.									
		10	604							
		12	602							

SS-A4-13 was hand augered to approximately 8-foot bgs. Upon completion the boring was backfilled with soil cuttings.

Soil Sample Results (ng/kg)



**PROJECT:** Cherry Capital Airport- PFAS  
**PROJECT NO.:** 2022630003.03  
**PROJECT LOCATION:** Traverse City, Michigan  
**CLIENT:** Northwest Regional Airport Authority  
**DRILLING COMPANY:** Gosling Czubak Engineering  
**DRILLER:** T. Ackler/J.Rawlin **RIG:** NA

**LOG OF BORING:** SS-A4-14  
**LOGGED BY:** T. Ackler **DATE:** April 10, 2024  
**BOREHOLE DIAMETER (IN):** 3.5 in  
**DRILLING METHOD:** Hand Auger  
**TOTAL DEPTH (FT):** 8  
**GROUND ELEVATION (FT):** 614.12

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Graphic	Description (See Boring Log Key)	Depth (feet)	Ground Elevation (feet)	Soil Sample Type	Sample No.	GW Sample Type	Laboratory ID	TEST RESULTS		
								TOTAL PFAS (ppt)	PFOS CONC (ppt)	PFOA CONC (ppt)
	Sandy TOPSOIL - dark brown	0	614							
	Silty fine to medium SAND (SM) - brown	0.5								
	Silty clayey SAND (ML) - brown/gray (mottled)	0.83								
	Silty fine to medium SAND (SM) - brown	2	612		HA1		SS-A4-14-2	1,667	950	160
		4	610							
		6	608							
	Silty fine to medium SAND (SM) - moist - brown									
	Silty fine to medium SAND (SM) - wet - brown	8	606		HA2		SS-A4-14-7.5	99	99	<72
	Boring terminated at 8 ft.									
		10	604							
		12	602							

SS-A4-14 was hand augered to approximately 8-foot bgs. Upon completion the boring was backfilled with soil cuttings.

Soil Sample Results (ng/kg)



**PROJECT:** Cherry Capital Airport- PFAS  
**PROJECT NO.:** 2022630003.03  
**PROJECT LOCATION:** Traverse City, Michigan  
**CLIENT:** Northwest Regional Airport Authority  
**DRILLING COMPANY:** Gosling Czubak Engineering  
**DRILLER:** T. Ackler/J.Rawlin **RIG:** NA

**LOG OF BORING:** SS-A4-15  
**LOGGED BY:** T. Ackler **DATE:** April 10, 2024  
**BOREHOLE DIAMETER (IN):** 3.5 in  
**DRILLING METHOD:** Hand Auger  
**TOTAL DEPTH (FT):** 8  
**GROUND ELEVATION (FT):** 613.49

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Graphic	Description (See Boring Log Key)	Depth (feet)	Ground Elevation (feet)	Soil Sample Type	Sample No.	GW Sample Type	Laboratory ID	TEST RESULTS		
								TOTAL PFAS (ppt)	PFOS CONC (ppt)	PFOA CONC (ppt)
	Sandy TOPSOIL - organics (tree root) - dark brown	0								
	Silty fine to medium SAND (SM) - brown	0.5								
		612								
		2		HA1			SS-A4-15-2	170	<51	<51
		610								
		4								
		608								
		6								
	Silty fine to medium SAND (SM) - moist - brown									
		606		HA2			SS-A4-15-7.5	0	<80	<80
	Silty fine to medium SAND (SM) - wet - brown	8								
	Boring terminated at 8 ft.									
		604								
		10								
		602								
		12								

SS-A4-15 was hand augered to approximately 8-foot bgs. Upon completion the boring was backfilled with soil cuttings.

Soil Sample Results (ng/kg)



**PROJECT:** 23\*0537 PFAS Vertical Aquifer Profiles  
**PROJECT NO.:** 2022630003.04  
**PROJECT LOCATION:** 727 Fly Don't Dr, Traverse City, MI  
**CLIENT:** Northwest Regional Airport Authority  
**DRILLING COMPANY:** Shepler Well Drilling  
**DRILLER:** C. Shepler **RIG:** Geoprobe 7822 DT

**LOG OF BORING:** **VAP-2**  
**LOGGED BY:** M. Korndorfer **DATE:** 12-19-22  
**BOREHOLE DIAMETER (IN):** +/- 3 in  
**DRILLING METHOD:** Dual Tube Macro-Core  
**STATIC WATER LEVEL (FT):** 7 ft  
**GROUND ELEVATION (FT):** 614.02 **TOTAL DEPTH (FT):** 50

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Graphic	Description (See Boring Log Key)	Depth (feet)	Ground Elevation (feet)	Soil Sample Type	Sample No.	GW Sample Type	Laboratory ID	TEST RESULTS		
								TOTAL PFAS (ppt)	PFOS CONC (ppt)	PFOA CONC (ppt)
	TOPSOIL - sandy - dark brown	0								
	Fine to medium SAND (SP) - little silt - brown	0.5			HA-1					
	Fine to medium SAND (SP) - little silt - trace coarse sand - occasional gravel seams - light brown - wet below 7-ft bgs	2.5	610							
		5			DT1	VAP-VAP002-010	4,209	350	560	
			605							
		10			DT2					
			600							
		15			DT3	VAP-VAP002-020	40	7.2	17	
			595							
		20			DT4					
			590							
		25			DT5	VAP-VAP002-030	11	2.7	4.4	
			585							
		30								

VAP was installed using 1-inch, Sch 80 PVC casing with a 5-ft, 10-slot screen. The screen was installed from 45-50 ft bgs for VAP sampling via low-flow. Sampling occurred every 10-ft until dry. The well was then removed and borehole was backfilled using bentonite chips and filter sand.



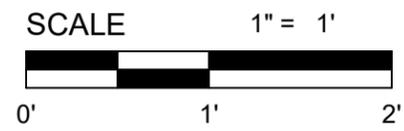
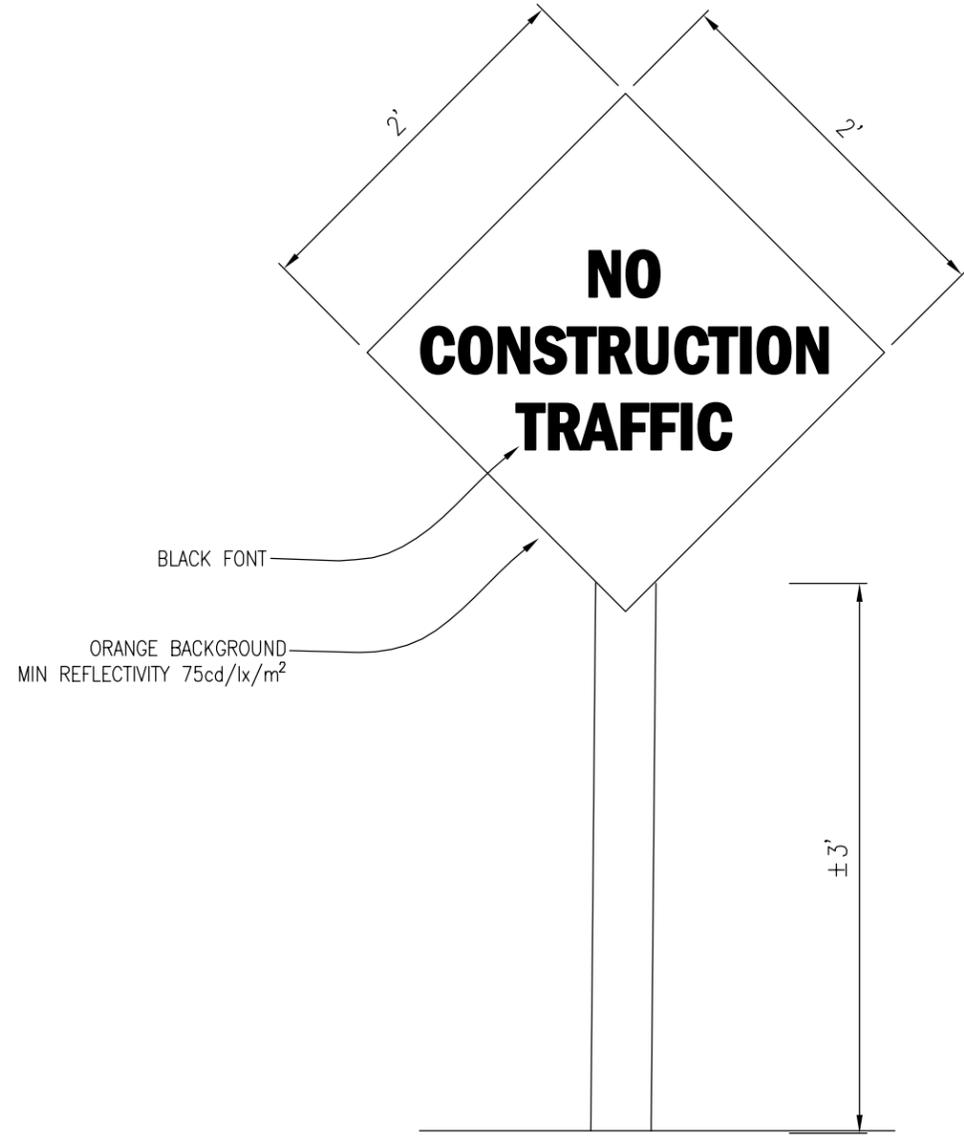
**PROJECT:** 23\*0537 PFAS Vertical Aquifer Profiles  
**PROJECT NO.:** 2022630003.04  
**PROJECT LOCATION:** 727 Fly Don't Dr, Traverse City, MI  
**CLIENT:** Northwest Regional Airport Authority  
**DRILLING COMPANY:** Shepler Well Drilling  
**DRILLER:** C. Shepler **RIG:** Geoprobe 7822 DT

**LOG OF BORING: VAP-2**  
**LOGGED BY:** M. Korndorfer **DATE:** 12-19-22  
**BOREHOLE DIAMETER (IN):** +/- 3 in  
**DRILLING METHOD:** Dual Tube Macro-Core  
**STATIC WATER LEVEL (FT):** 7 ft   
**GROUND ELEVATION (FT):** 614.02 **TOTAL DEPTH (FT):** 50

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Graphic	Description (See Boring Log Key)	Depth (feet)	Ground Elevation (feet)	Soil Sample Type	Sample No.	GW Sample Type	Laboratory ID	TEST RESULTS		
								TOTAL PFAS (ppt)	PFOS CONC (ppt)	PFOA CONC (ppt)
			580		DT6					
		35								
					DT7	VAP-VAP002-040	6	2.8	ND	
			575							
		40								
					DT8					
			570							
		45								
			DT9	VAP-VAP002-050	0	ND	ND			
			565							
		50								
	Boring terminated at 50 ft.									
			560							
		55								
			555							
		60								

VAP was installed using 1-inch, Sch 80 PVC casing with a 5-ft, 10-slot screen. The screen was installed from 45-50 ft bgs for VAP sampling via low-flow. Sampling occurred every 10-ft until dry. The well was then removed and borehole was backfilled using bentonite chips and filter sand.



MATERIAL COMPOSITION & THICKNESS: SIGN SUBSTRATE SHALL BE FABRICATED FROM HIGH-GRADE 5052-H38 ALUMINUM ALLOY WITH A NOMINAL THICKNESS OF 0.075" (14 GAUGE). ALL EDGES MUST BE DE-BURRED AND CORNERS RADIUSED TO 1" MINIMUM TO ENSURE SAFETY AND DURABILITY, OR AS APPROVED BY THE ENGINEER.

DIMENSIONAL STANDARDS: STANDARD SIGN DIMENSIONS ARE ESTABLISHED AT 2' x 2' (24" x 24") AS SHOWN IN THE DETAIL. MINOR DEVIATIONS IN HEIGHT OR WIDTH TO ACCOMMODATE SPECIFIC SITE AND SUPPLIER CONSTRAINTS ARE PERMISSIBLE, PROVIDED THEY MAINTAIN THE INTENDED VISUAL IMPACT.

REGULATORY COMPLIANCE: ALL SIGNAGE DESIGNATED TO BE PLACED ON OR NEAR ROADWAYS ADJACENT TO OR WITHIN THE PROJECT SHALL BE IN CONFORMANCE WITH THE MOST RECENT EDITION OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD) AND MDOT STANDARDS AND REQUIREMENTS

Location:  
 PART OF SECTION 12,  
 T 27 N, R 11 W,  
 GARFIELD TOWNSHIP,  
 GRAND TRAVERSE COUNTY, MICHIGAN  
 Sheet S1

**Specification - Prohibited Vehicle Access  
 PFAS Soil Removal Action  
 Northwest Regional Airport Authority**

Job #:	250258.01
Date:	02/03/2026
Scale:	1" = 1'
Drawn:	DJT
Chk'd.:	AES
Rev.:	02/09/2026



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 CONSTRUCTION SERVICES | DRILLING | LANDSCAPE ARCHITECTURE