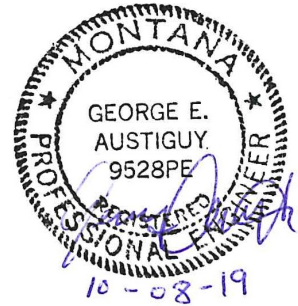


ADDENDUM NO. 2

TO: ALL BIDDERS OF RECORD  
PROJECT: Selway Creek Fish Barrier Project  
FWP PROJECT #: 20-03  
DATE: 10/08/19  
FROM: George Austiguy, Pioneer Technical Services



**Acknowledge receipt of this addendum by inserting its number and date in the Proposal Form and on the Bid Envelope. Failure to do so may subject bidder to disqualification.**

This Addendum forms a part of the Contract Documents. Clarification and/or modifications are as follows:

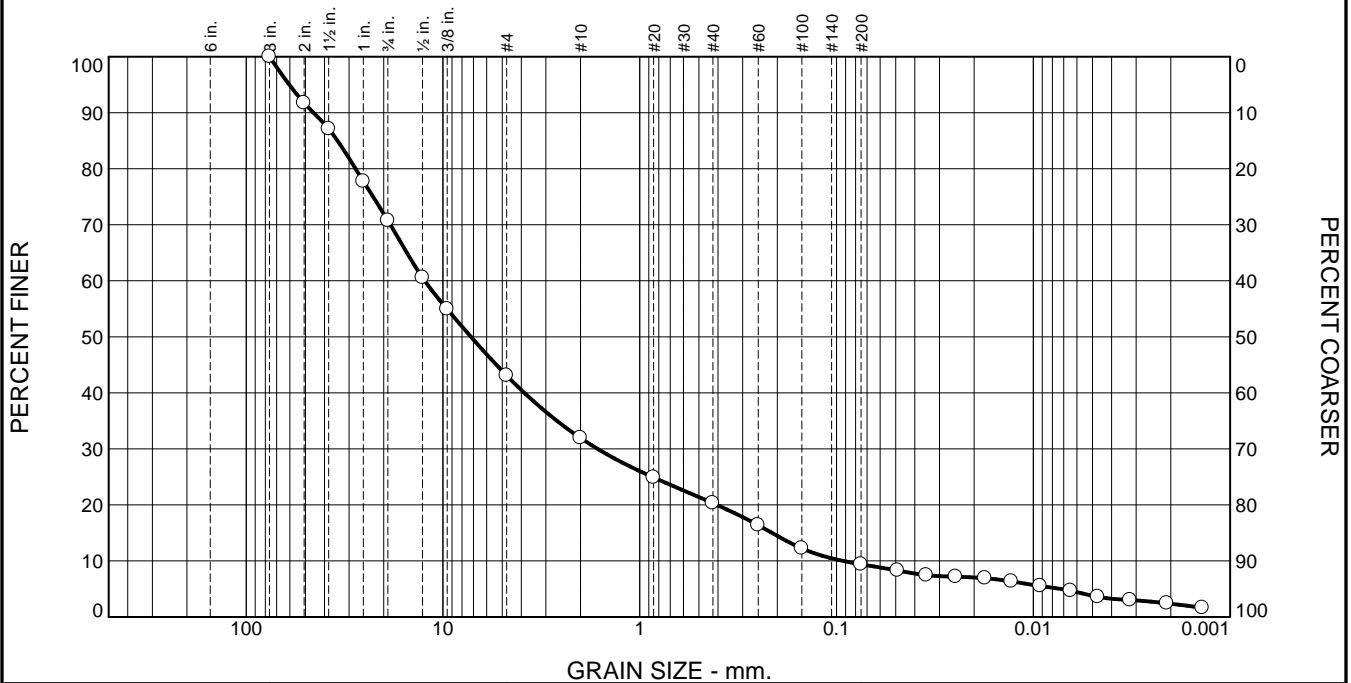
**Add the following to Appendix B**

**USFS Borrow Site Particle Size Distribution Reports for BS-3 (Attached)**

END OF ADDENDUM NO.2

## Particle Size Distribution Reports for Borrow Site BS-3

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	29.3	27.6	11.2	11.6	10.9	5.6	3.8

TEST RESULTS			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
3"	100.0		
2"	91.7		
1 1/2"	87.1		
1"	77.8		
3/4"	70.7		
1/2"	60.5		
3/8"	55.0		
#4	43.1		
#10	31.9		
#20	24.9		
#40	20.3		
#60	16.4		
#100	12.2		
#200	9.4		
0.0489 mm.	8.3		
0.0349 mm.	7.5		
0.0248 mm.	7.2		
0.0176 mm.	6.9		
0.0129 mm.	6.3		
0.0092 mm.	5.5		
0.0065 mm.	4.7		
0.0047 mm.	3.6		
0.0032 mm.	3.0		
0.0021 mm.	2.4		
0.0014 mm.	1.6		

\* (no specification provided)

**Material Description**

well-graded gravel with silt and sand

**Atterberg Limits (ASTM D 4318)**

PL= 17                      LL= 18                      PI= 1

**Classification**

USCS (D 2487)= GW-GM    AASHTO (M 145)= A-1-a

**Coefficients**

D<sub>90</sub>= 45.4866              D<sub>85</sub>= 34.3285              D<sub>60</sub>= 12.3895  
D<sub>50</sub>= 7.2055                D<sub>30</sub>= 1.6376                D<sub>15</sub>= 0.2127  
D<sub>10</sub>= 0.0928                C<sub>u</sub>= 133.57                 C<sub>c</sub>= 2.33

Remarks

Date Received: 10/4/19              Date Tested: 10/4/19

Tested By: TS

Checked By: LPS

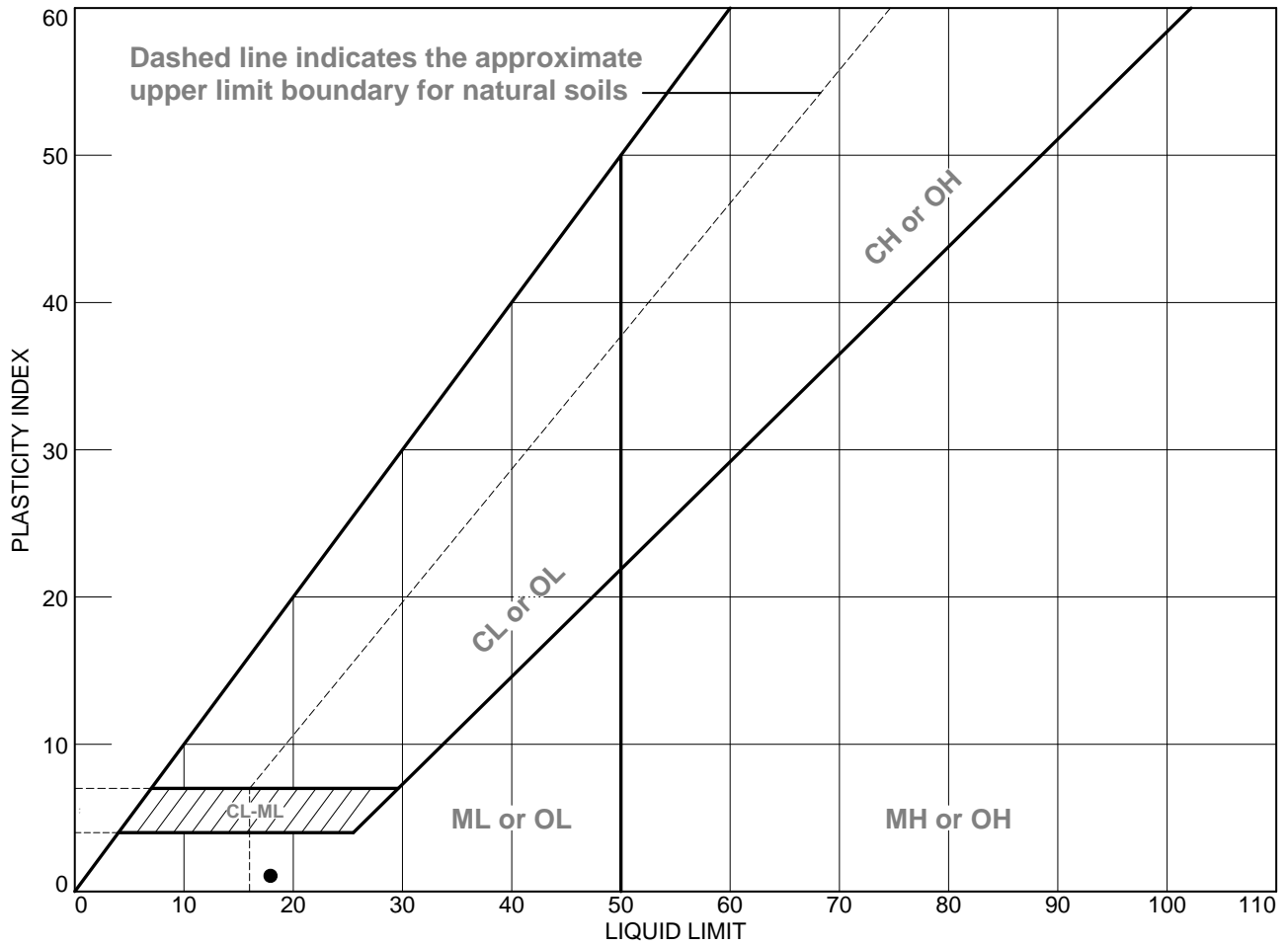
Title: Senior Technician

Source of Sample: BS-3              Depth: Stockpile  
Sample Number: G19896 (BS-3)

Date Sampled: 10/3/19

<p style="text-align: center;"><b>Pioneer Technical Services, Inc.</b></p> <p style="text-align: center;">106 Pronghorn Trail, Suite A - Bozeman, MT 59718</p> <p style="text-align: center;">Ph. 406-388-8578 - Fax 406-388-8579</p>	<p>Client: MTFWP</p> <p>Project: Selway Creek Fish Barrier</p> <p>Project No: _____</p> <p style="text-align: right;">Figure _____</p>
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# LIQUID AND PLASTIC LIMITS TEST REPORT



## SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	BS-3	G19896 (BS-3)	Stockpile		17	18	1	GW-GM

**Pioneer Technical Services, Inc.**

106 Pronghorn Trail, Suite A - Bozeman, MT 59718

Ph. 406-388-8578 - Fax 406-388-8579

**Client:** MTFWP

**Project:** Selway Creek Fish Barrier

**Project No.:**

**Figure**

**Tested By:** TS **Checked By:** LPS