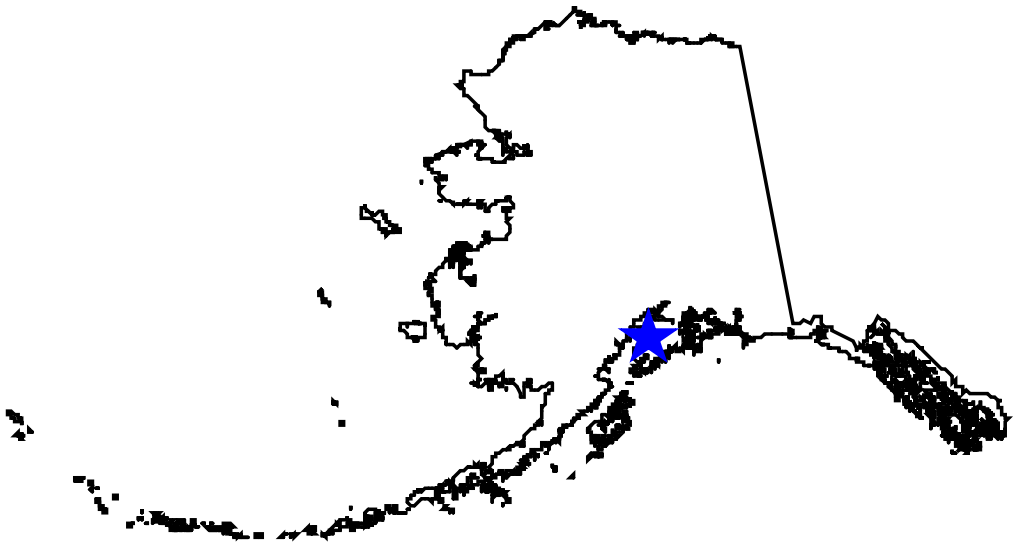
GEOTECHNICAL REPORT

STERLING HIGHWAY SAFETY CORRIDOR IMPROVEMENTS, MP 82.5-94

PROJECT NO. CFHWY00130

DECEMBER 2022



Prepared By
ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
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ALASKA
Department of Transportation
& Public Facilities

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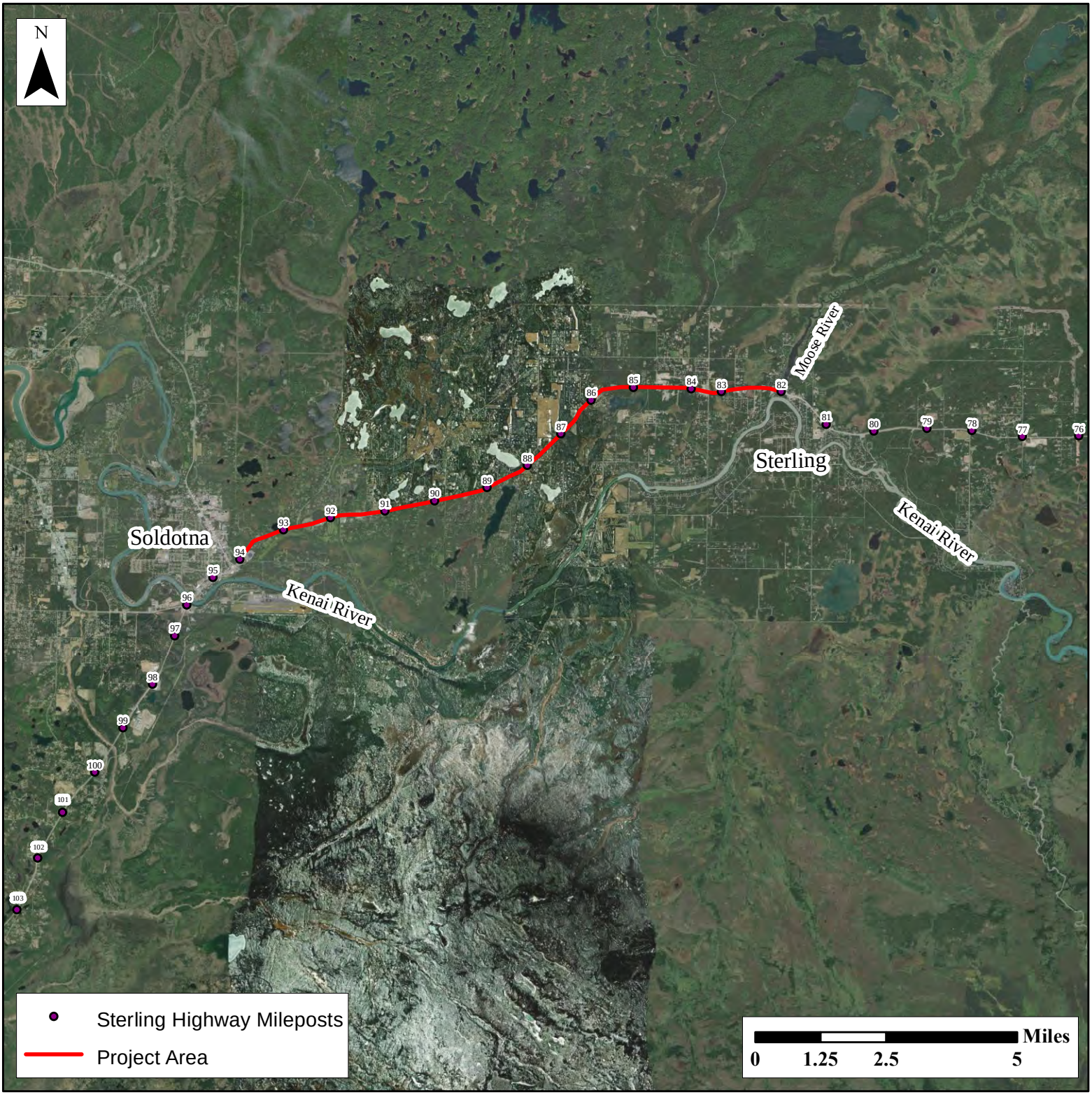


Alaska Department of Transportation & Public Facilities

Sterling Highway Safety Corridor Imp's
MP 82.5-94
Project No. CFHWY00130

FIGURE 1

Vicinity Map

Background Image: Esri 2020

INTRODUCTION

Project Scope and Location

The Alaska Department of Transportation and Public Facilities (DOT&PF) proposes to improve the safety of the Sterling Highway from Milepost (MP) 82.5 to MP 94 by widening the existing two-lane road to a divided four-lane road. The project will also install separated bike and pedestrian facilities, add turn lanes, and realign intersections throughout the corridor.

The Sterling Highway is located on the Kenai Peninsula, beginning at the Sterling Wye where it diverges from the Seward Highway at about MP 37 and continues roughly 140 miles to Homer. This project begins in Sterling and extends to the eastern edge of Soldotna (see Vicinity Map – Figure 1).

Historical Geotechnical Investigations

Central Region Materials (CRM) conducted a material site investigation for the Soldotna Urban Project under Project Numbers F-02101(13) and F-021-2(4) in 1970. The work generally consisted of drilling about 85 shallow test holes along the alignment and excavating about 12 shallow test pits at a material site off of Homestead Road.

DOWL performed a geotechnical investigation in 1980 and 1981 for the Sterling Highway Mile 84 to Soldotna Project (F-021-2(19)). DOWL drilled about 149 test holes in two phases for this project. The work was described by DOWL in a report labelled "Subsurface Investigation, Sterling Highway, Mile 84 to Soldotna" dated June 1981.

CRM conducted an investigation in 1989 of foundation soil conditions for the Sterling Highway Mile 82-94 Project. The report was labelled "Geotechnical Report, Sterling Hwy MP82 to 94" (#56375, May 1991). The work included material site investigation at 5 locations, a foundation investigation for Soldotna Creek, and centerline drilling.

Geotechnical Investigation Scope

In September and October 2022, DOT&PF Central Region Materials (CRM) Section performed a geotechnical investigation to characterize the subsurface conditions for the Sterling Highway Safety Corridor Improvements project.

A total of 70 test holes were drilled to depths ranging from 12 to 27 feet bgs. Twenty-three of these were through the shoulder of the existing highway, while the other 47 test holes were drilled in the ditch and adjacent to the existing road. The test hole locations are shown on the 2022 Test Hole Location Map included in Appendix A (Figures 3 through 13).

GEOLOGY AND CLIMATE

Regional Geology

This project is located on the glaciated plain of the Kenai Peninsula, east of Cook Inlet and west of the Kenai-Chugach Mountains physiographic province (Wahraftig, 1965). Repeated glacial advances from the surrounding mountains formed large lakes and muskeg areas and resulted in glacial tills, end moraines, lateral moraines, and glacial outwash deposits throughout the region (Coulter et al., 1965). Tertiary sedimentary rocks of the Kenai Group underlay the glacial deposits, but are not known to outcrop in the area. The Kenai Peninsula is characterized by high seismicity associated with the subduction of the Pacific Plate under the North American plate. The Aleutian Island chain and associated deep ocean Aleutian Trench are features within the subduction zone caused by the collision of these two plates. This area is generally considered to be free of permafrost (Ferrians, 1965).

Site Geology and Topography

The section of the Sterling Highway between Sterling and Soldotna is relatively low-relief, with lakes and ponds on both sides of the road. The surficial deposits within the project area are primarily interstratified units of sand and gravel with silt and peat lenses. These deposits reportedly include cobbles and larger glacial erratics throughout the area (Reger et al., 2007), although none were encountered during the geotechnical investigation. Subsurface conditions off the highway across the project corridor generally consist of a thin organic mat over sands and gravels with varying amounts of silt. Subsurface conditions for the highway generally consist of asphalt over constructed embankments from 3 to 30ft, over original ground.

Climate

This section of the Kenai Peninsula is within the Transitional Climatic Zone of Alaska with maritime and continental influences alternating seasonally. Monthly average maximum temperatures range from 20.9°F in January to 62.1°F in July, with an annual mean of 42.4°F. Precipitation increases in occurrence from April to its highest values in September with an annual average of 18.71 inches per year. Snowfall is highest from November to March with an annual average of 61.2 inches per year. The following table summarizes the available climate data for the weather station at Kenai Municipal Airport, Alaska.

Table 1: Kenai Muni AP (504546) – 05/01/1899 to 06/09/2016

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average Max. Temperature (F)	20.9	26.8	32.6	42.8	53.1	58.8	62.1	61.9	55.3	42.2	29.5	22.7	42.4
Average Min. Temperature (F)	4.0	8.2	12.9	26.3	35.4	42.9	47.5	45.9	39.0	27.7	14.1	7.2	25.9
Average Total Precipitation (in.)	0.99	0.96	0.80	0.74	0.89	1.21	1.89	2.61	3.33	2.44	1.50	1.34	18.71
Average Total SnowFall (in.)	9.5	10.3	8.6	3.5	0.3	0.0	0.0	0.0	0.1	4.8	10.3	13.8	61.2

(Western Region Climate Center – http://www.wrcc.dri.edu)

INVESTIGATION PROCEDURES

Field Methods

The 2022 geotechnical investigation consisted of drilling 52 test holes using a CME 75 truck-mounted drill rig and 18 holes using a Geoprobe 8040DT track-mounted drill rig. The drill rigs were operated by GeoTek Alaska, Inc. of Anchorage, Alaska. CRM field staff supervised the drilling operations and sampled and logged subsurface conditions.

Soil Sampling

CRM field staff examined and visually classified soil samples in the field following the Unified Soil Classification System (USCS) Visual Manual Method (ASTM D2488). The field classifications, sample intervals, and other pertinent information were recorded in field books. This data was later entered into gINT software (a geotechnical software that stores field and lab data, soils data, and generates report quality test hole logs).

Soil sampling methods consisted of the following:

- Grab samples collected from auger cuttings while drilling down to the pre-planned sample interval at 2.5 feet bgs, or collected from test hole sidewalls.
- Standard Penetration Tests (SPT) (ASTM-1586) were conducted using a 1.4 inch internal diameter split barrel sampler driven by a 140 pound hammer to collect soil samples and estimate uncorrected N values. The number of blows required to drive the sampler through undisturbed soil were recorded for each 6-inch increment for 24 inch intervals.

Laboratory Testing

In addition to the visual classification by the CRM field staff, selected samples were tested by the CRM Laboratory to verify the field soil classification. If needed, the field classifications were corrected to reflect laboratory results per the USCS Laboratory Classification Method (ASTM D2487) and these corrections are reflected in the Test Hole Logs (Appendix B). Lab results are summarized in the Preconstruction Sample Summary Reports (Appendix C).

All lab testing followed specifications indicated in the DOT&PF Geotechnical Procedures Manual, AASHTO, or ASTM as appropriate. Testing for this project included the following methods and specifications:

- Soils Classification, Unified Soils Classification System (ASTM D2487).
- Atterberg Limits: Liquid Limit, Plastic Limit, and Plasticity Index (AASHTO T89/T90).
- Sieve Analysis (AASHTO T27, T11, or T88 or ASTM C136 and C117).
- Organic Content (Alaska Test Method ATM 203).
- Moisture Content (AASHTO T255/T265 or ASTM D2216).

GENERAL SITE CONDITIONS

Tables 2-8 summarize the soil layers observed in test holes drilled in 2022. Tables 2-8 also indicate whether groundwater was observed while drilling. For detailed information of soil conditions please refer to the Test Hole Logs in Appendix B. See also the Test Hole Location Maps in Appendix A (Figures 2-13) for the locations of test holes. A Photo Log has been included in Appendix D.

Table 2: Geotechnical Summary of Subsurface Conditions in On-Road Test Holes, MP 82.5 to 88

Test Hole	Depth Below Surface	Material Type	Groundwater (feet bgs)
TH22-01	6 in	Asphalt	N/A
	6 in to 3 ft	Gravel with Silt and Sand (GP-GM) P200 = 6%, MC = 2.7 to 5.2%	
	3 ft	Geotextile Fabric (Stabilization)	
	3 to 7 ft	Silty Sand with Gravel (SM) P200 = 14%, MC = 3.2 to 6.4%	
	7 to 12 ft	Sand with Silt and Gravel (SP-SM) P200 = 8%, MC = 3.4%	

Table 2: Geotechnical Summary of Subsurface Conditions in On-Road Test Holes, MP 82.5 to 88 (cont.)

Test Hole	Depth Below Surface	Material Type	Groundwater (feet bgs)
TH22-02	5.5 in	Asphalt	2
	5.5 in to 2 ft	Sand with Gravel (SP) MC = 2.2%	
	2 to 6 ft	Sand with Silt (SP-SM) P200 = 7%, MC = 9.2 to 12.1%	
	6 to 10.5 ft	Silt (ML) P200 = 89%, MC = 2.6 to 79.9%	
	10.5 to 12 ft	Sand with Silt and Gravel (SP-SM) P200 = 8%	
TH22-03	5.5 in	Asphalt	2
	5.5 in to 6 ft	Sand with Silt and Gravel (SP-SM) P200 = 8%, MC = 2.9 to 8.0%	
	6 to 13.5 ft	Clay (CL) P200 = 90%, MC = 29.4%, PI = 19, LL = 40	
	13.5 to 17 ft	Gravel with Silt and Sand (GP-GM) P200 = 7%, MC = 2.0%	
TH22-05	4.5 in	Asphalt	N/A
	4.5 in to 2.5 ft	Sand with Gravel (SP) MC = 2.4%	
	2.5 to 4 ft	Sand with Silt (SP-SM) P200 = 11%, MC = 4.2%	
	4 to 7 ft	Silty Sand with Gravel (SM) MC = 5.3%	
	7 to 12 ft	Silty Sand (SM) P200 = 47%, MC = 12.7%	
TH22-06	4.5 in	Asphalt	N/A
	4.5 in to 7.5 ft	Sand with Silt and Gravel (SP-SM) P200 = 5%, MC = 2.6 to 3.0%	
	7.5 ft	Geotextile Fabric (Stabilization)	
	7.5 to 12 ft	Silty Sand (SM) P200 = 14%, MC = 5.8 to 13.8%	

Table 2: Geotechnical Summary of Subsurface Conditions in On-Road Test Holes, MP 82.5 to 88 (cont.)

Test Hole	Depth Below Surface	Material Type	Groundwater (feet bgs)
TH22-07	6.5 in	Asphalt	N/A
	6.5 in to 2 ft	Sand with Gravel (SP) MC = 5.8%	
	2 to 3.5 ft	Silty Sand (SM) P200 = 13%, MC = 7.2%	
	3.5 to 12 ft	Sand with Silt and Gravel (SP-SM) P200 = 7%, MC = 2.6%	
TH22-08	7 in	Asphalt	N/A
	7 in to 2 ft	Gravel with Silt and Sand (GP-GM) P200 = 5%, MC = 2.3%	
	2 to 12 ft	Sand with Silt and Gravel (SP-SM) P200 = 5 to 9%, MC = 1.4 to 2.5%	
TH22-09	5.5 in	Asphalt	N/A
	5.5 in to 5 ft	Gravel with Silt and Sand (GP-GM) P200 = 5%, MC = 2.0%	
	5 to 12 ft	Sand with Silt and Gravel (SP-SM) P200 = 8%, MC = 3.7 to 5.2%	
TH22-11	5.5 in	Asphalt	N/A
	5.5 in to 3 ft	Sand with Silt and Gravel (SP-SM) P200 = 6%, MC = 8.1%	
	3 to 12 ft	Clayey Sand with Gravel (SC) P200 = 35 to 40%, MC = 7.3 to 8.8%, PI = 4, LL = 16	

Table 3: Geotechnical Summary of Subsurface Conditions in On-Road Test Holes, MP 82.5 to 88

Test Hole	Depth Below Surface	Material Type	Groundwater (feet bgs)
TH22-14	6 in	Asphalt	N/A
	6 in to 3 ft	Gravel with Silt and Sand (GP-GM) P200 = 5%, MC = 3.2%	
	3 to 12 ft	Silty Sand with Gravel (SM) P200 = 15 to 19%, MC = 4.7 to 7.0%	

Table 3: Geotechnical Summary of Subsurface Conditions in On-Road Test Holes, MP 82.5 to 88 (cont.)

Test Hole	Depth Below Surface	Material Type	Groundwater (feet bgs)
TH22-15	6 in	Asphalt	6
	6 in to 3.5 ft	Sand with Silt and Gravel (SP-SM) P200 = 5%, MC = 2.9%	
	3.5 to 7 ft	Silty Sand (SM) P200 = 37%, MC = 11.2%	
	7 to 12 ft	Silt (ML) P200 = 92%, MC = 21.8 to 22.6%	
TH22-16	7 in	Asphalt	N/A
	7 in to 3 ft	Gravel with Silt and Sand (GP-GM) P200 = 7%, MC = 2.0 to 2.8%	
	3 ft	Geotextile Fabric (Stabilization)	
	3 to 7 ft	Sandy Silt (ML) P200 = 58%, MC = 14.6%	
	7 to 12 ft	Sand (SP) P200 = 4%, MC = 4.2 to 4.5%	
TH22-17	5.5 in	Asphalt	N/A
	5.5 in to 4 ft	Sand with Silt and Gravel (SP-SM) P200 = 7%, MC = 2.6%	
	20 to 22 ft	Sandy Silt (ML) P200 = 39 to 45%, MC = 11.1 to 11.8%	
TH22-18	5.5 in	Asphalt	N/A
	5.5 in to 3 ft	Sand with Silt and Gravel (SP-SM) P200 = 6%, MC = 4.7%	
	3 ft	Geotextile Fabric (Stabilization)	
	3 to 7 ft	Silty Sand (SM) P200 = 30%, MC = 7.3%	
	7 to 12 ft	Silt with Sand (ML) P200 = 80%, MC = 19.9 to 22.3%	
TH22-20	5.5 in	Asphalt	N/A
	5.5 in to 2 ft	Gravel with Silt and Sand (GP-GM) P200 = 7%, MC = 2.5%	
	2 to 10 ft	Silty Sand (SM) P200 = 24 to 36%, MC = 4.1 to 6.8%	
	10 to 12 ft	Sandy Silt (ML) MC = 9.2%	

Table 3: Geotechnical Summary of Subsurface Conditions in On-Road Test Holes, MP 82.5 to 88 (cont.)

Test Hole	Depth Below Surface	Material Type	Groundwater (feet bgs)
TH22-21	5.5 in	Asphalt	N/A
	5.5 in to 3 ft	Sand with Silt and Gravel (SP-SM) P200 = 6%, MC = 3.6%	
	3 to 9 ft	Silty Sand (SM) P200 = 27 to 37%, MC = 7.4 to 8.7%	
	9 to 12 ft	Sand with Silt and Gravel (SP-SM) P200 = 10%, MC = 2.9%	
TH22-27	6.5 in	Asphalt	N/A
	6.5 in to 5 ft	Gravel with Silt and Sand (GP-GM) P200 = 9%, MC = 2.9%	
	5 to 12 ft	Sandy Silt (ML) P200 = 47%, MC = 10.3 to 11.1%	
TH22-28	5.5 in	Asphalt	N/A
	5.5 in to 3 ft	Gravel with Silt and Sand (GP-GM) P200 = 6%, MC = 2.8%	
	3 to 9 ft	Sandy Silt (ML) P200 = 67%, MC = 12.5 to 21.7%	
	9 to 12 ft	Sand with Silt (SP-SM) P200 = 9%, MC = 5.1%	
TH22-30	6 in	Asphalt	N/A
	6 in to 2 ft	Gravel with Silt and Sand (GP-GM) P200 = 5%, MC = 2.2%	
	2 to 3 ft	Silty Sand (SM) P200 = 14%, MC = 11.0%	
	3 to 5 ft	Silty Sand with Gravel (SM) P200 = 13%, MC = 4.6%	
	5 to 8.5 ft	Sandy Silt (ML) P200 = 62%, MC = 33.2%	
	8.5 to 12 ft	Sand with Silt and Gravel (SP-SM) P200 = 8%, MC = 5.1%	

Table 4: Geotechnical Summary of Subsurface Conditions in Test Holes for MP 84.6 Side Road

Test Hole	Depth Below Surface	Material Type	Groundwater (feet bgs)
TH22-04	5.5 in	Asphalt	N/A
	5.5 in to 3.5 ft	Sand with Silt and Gravel (SP-SM) P200 = 5%, MC = 3.0 to 4.1%	
	3.5 to 6 ft	Silty Sand with Gravel (SM) P200 = 23%, MC = 7.2%	
	6 to 9 ft	Silty Sand (SM) P200 = 23%, MC = 10.1%	
	9 to 12 ft	Gravel with Silt and Sand (GP-GM) P200 = 8%	
TH22-68	0 to 22 ft	Sand with Silt and Gravel (SP-SM) P200 = 5 to 8%, MC = 2.2 to 2.8%	N/A

Table 5: Geotechnical Summary of Subsurface Conditions in Test Holes for MP 91.38 Dip

Test Hole	Depth Below Surface	Material Type	Groundwater (feet bgs)
TH22-23	5.5 in	Asphalt	N/A
	5.5 in to 3 ft	Sand with Gravel (SP) P200 = 5%, MC = 12.2%	
	3 ft	Geotextile Fabric (Stabilization)	
	3 to 7.5 ft	Clayey Sand (SC) P200 = 41%, MC = 9.3 to 11.1%, PI = 4, LL = 16	
	7.5 to 12 ft	Sandy Silt (ML) P200 = 53%, MC = 13.8%	
TH22-24	5.5 in	Asphalt	4.5
	5.5 in to 14 ft	Sand with Silt and Gravel (SP-SM) P200 = 5 to 8%, MC = 2.6 to 18.7%	
	14 to 25.5 ft	Highly Organic Peat (PT) MC = 266.7 to 399.3%, Org. = 64.3%	
	25.5 to 27 ft	Organic Silt (OL/ML) MC = 53.1%, Org. = 10.8%	

Table 5: Geotechnical Summary of Subsurface Conditions in Test Holes for MP 91.38 Dip (cont.)

Test Hole	Depth Below Surface	Material Type	Groundwater (feet bgs)
TH22-25	6 in	Asphalt	4.5
	6 in to 2 ft	Gravel with Silt and Sand (GP-GM) P200 = 6%, MC = 2.3%	
	2 to 7 ft	Sand with Silt (SP-SM) P200 = 8 to 10%, MC = 6.3 to 10.3%	
	7 to 9 ft	Organic Silt (OL/ML) MC = 8.2%, Org. = 7.5%	
	9 to 16 ft	Slightly Organic Silt (ML) MC = 20%, Org. = 2.4%	
	16 to 17 ft	Silty Sand (SM)	

Table 6: Geotechnical Summary of Subsurface Conditions in Off-Road Test Holes, MP 83.5 to 86

Test Hole	Depth Below Surface	Material Type	Groundwater (feet bgs)
TH22-32	0 to 5 ft	Sand with Gravel (SPG) P200 = 0%, MC = 3.4%	14
	5 ft	Geotextile Fabric (Stabilization)	
	5 to 7 ft	Sand with Silt (SP-SM) P200 = 8%, MC = 6.1%	
	7 to 15 ft	Gravel with Silt and Sand (GP-GM) P200 = 8%, MC = 4.0%	
	15 to 22 ft	Sand with Silt and Gravel (SP-SM) P200 = 7%, MC = 4.1%	
TH22-36	0 to 4 ft	Sand with Silt and Gravel (SP-SM) P200 = 6%, MC = 15.6%	2
	4 to 9 ft	Silt (ML) P200 = 91%, MC = 35.0%	
	9 to 20 ft	Gravel with Silt and Sand (GP-GM) P200 = 10%, MC = 6.0%	
	20 to 22 ft	Sand with Silt and Gravel (SP-SM) P200 = 6%	

Table 6: Geotechnical Summary of Subsurface Conditions in Off-Road Test Holes, MP 83.5 to 86 (cont.)

Test Hole	Depth Below Surface	Material Type	Groundwater (feet bgs)
TH22-37	0 to 2.5 ft	Sand with Gravel (SPG)	N/A
	2.5 to 10.5 ft	Clay (CL) P200 = 90 to 93%, MC = 24.1 to 34.5%, PI = 23, LL = 45	
	10.5 to 19 ft	Sand with Silt and Gravel (SP-SM) P200 = 6%, MC = 4.7 to 7.5%	
	19 to 22 ft	Sand with Gravel (SPG) MC = 3.5%	
TH22-38	0 to 7.5 ft	Gravel with Silt and Sand (GP-GM) P200 = 6 to 9%, MC = 1.8 to 2.7%	N/A
	7.5 to 10 ft	Sand with Silt and Gravel (SP-SM) P200 = 6%, MC = 2.5%	
	10 to 15 ft	Gravel with Silt and Sand (GP-GM) P200 = 8%, MC = 1.6%	
	15 to 19 ft	Sand with Silt and Gravel (SP-SM) P200 = 8%	
	19 to 22 ft	Silty Sand (SM) P200 = 22%	
TH22-50	0 to 7.5 ft	Silty Sand with Gravel (SM) P200 = 28%, MC = 6.8 to 16.2%	N/A
	7.5 to 15 ft	Gravel with Silt and Sand (GP-GM) P200 = 11%, MC = 4.5%	
	15 to 20.5 ft	Sand with Silt and Gravel (SP-SM) P200 = 7%, MC = 2.5%	
TH22-53	0 to 4 ft	Silty Sand with Gravel (SM) P200 = 16%, MC = 6.3%	6.5
	4 to 7 ft	Slightly Organic Silty Sand (SM) P200 = 39%, MC = 20.1%, Org. = 3.0%	
	7 to 13 ft	Organic Silt (OL/ML) P200 = 71%, MC = 14.9 to 31.8%, Org. = 11.3%	
	13 to 20 ft	Sand with Silt (SP-SM) P200 = 8%	
	20 to 21.5 ft	Gravel with Silt and Sand (GP-GM) P200 = 9%	

Table 6: Geotechnical Summary of Subsurface Conditions in Off-Road Test Holes, MP 83.5 to 86 (cont.)

Test Hole	Depth Below Surface	Material Type	Groundwater (feet bgs)
TH22-66	0 to 7.5 ft	Silty Sand with Gravel (SM) P200 = 27%, MC = 8.2 to 10.6%	N/A
	7.5 to 15 ft	Silty Sand (SM) P200 = 19%, MC = 10.8 to 11.0%	
	15 to 20 ft	Sand with Gravel (SP) P200 = 4%, MC = 3. 4%	
	20 to 22 ft	Sandy Silt (ML) P200 = 51%	
TH22-67	0 to 5 ft	Slightly Organic Sandy Silt (ML) P200 = 72%, MC = 28.5%, Org. = 3.2%	N/A
	5 to 7.5 ft	Slightly Organic Silty Sand with Gravel (SM) P200 = 37%, MC = 25.9%, Org. = 4.4%	
	7.5 to 10 ft	Sandy Silt (ML) P200 = 56%, MC = 18.1%	
	10 to 15 ft	Silty Sand (SM) P200 = 26%, MC = 11.7%	
	15 to 20 ft	Sand with Silt (SP-SM) P200 = 5%	
	20 to 22 ft	Silty Sand (SM) MC = 15.3%	
TH22-69	0 to 3 ft	Sand (SP) MC = 5.1%	N/A
	3 to 5 ft	Silt (ML)	
	5 to 10 ft	Sand with Silt and Gravel (SP-SM) P200 = 7%, MC = 6.3 to 7.1%	
	10 to 15 ft	Sand (SP) P200 = 3%, MC = 6.9%	
	15 to 22 ft	Sand with Silt and Gravel (SP-SM) P200 = 6%, MC = 2.7%	
TH22-70	0 to 10 ft	Slightly Organic Sandy Silt (ML) P200 = 67%, MC = 17.8 to 30.0%, Org. = 2.9 to 3.7%	N/A
	10 to 12 ft	Organic Sandy Silt (OL/MLS) P200 = 51%, MC = 33.0%, Org. = 10.4%	
	12 to 18 ft	Gravel with Silt and Sand (GP-GM) P200 = 5%, MC = 2.7%	
	18 to 22 ft	Sand (SP) P200 = 4%, MC = 5.2%	

Table 7: Geotechnical Summary of Subsurface Conditions in Off-Road Test Holes, MP 86 to 89

Test Hole	Depth Below Surface	Material Type	Groundwater (feet bgs)
TH22-10	0 to 22 ft	Sand with Silt (SP-SM) P200 = 7 to 8%, MC = 4.9 to 10.9%	N/A
TH22-12	0 to 4 ft	Silty Sand (SM) P200 = 45%, MC = 15.2%	N/A
	4 to 22 ft	Gravel with Silt and Sand (GP-GM) P200 = 6 to 8%, MC = 2.1 to 2.7%	
TH22-13	0 to 5 ft	Silty Sand with Gravel (SM) P200 = 24%, MC = 11.1%	10.5
	5 ft	Geotextile Fabric (Stabilization)	
	5 to 7.5 ft	Silty Sand with Gravel (SM) P200 = 28%, MC = 7.5%	
	7.5 ft	Geotextile Fabric (Stabilization)	
	7.5 to 22 ft	Silty Sand with Gravel (SM) P200 = 39 to 42%, MC = 7.7 to 10.3%	
TH22-31	0 to 5 ft	Sand with Silt and Gravel (SP-SM) P200 = 5%, MC = 3.4%	N/A
	5 to 20 ft	Sand (SP) P200 = 3%, MC = 4.1 to 14.3%	
	20 to 22 ft	Silty Sand (SM) P200 = 16%, MC = 11.2%	
TH22-33	0 to 4 ft	Silty Sand with Gravel (SM) P200 = 22%, MC = 7.3%	N/A
	4 to 5.5 ft	Silty Sand (SM) MC = 8.0%	
	5.5 to 14 ft	Silt with Sand (ML) P200 = 82%, MC = 19.8 to 21.8%	
	14 to 19 ft	Sand with Silt and Gravel (SP-SM) P200 = 9%	
	20 to 22 ft	Clay (CL) MC = 11.2%, PI = 7, LL = 22	
TH22-47	0 to 4 ft	Sand with Silt and Gravel (SP-SM) P200 = 10%, MC = 3.8%	N/A
	4 to 7 ft	Silty Sand with Gravel (SM) P200 = 16%, MC = 14.8%	
	7 to 13 ft	Sand with Gravel (SP) P200 = 4%, MC = 3.2 to 11.6%	
	13 to 21 ft	Gravel with Silt and Sand (GP-GM) P200 = 7%, MC = 2.7%	

Table 7: Geotechnical Summary of Subsurface Conditions in Off-Road Test Holes, MP 86 to 89

Test Hole	Depth Below Surface	Material Type	Groundwater (feet bgs)
TH22-48	0 to 5 ft	Sand with Silt and Gravel (SP-SM) P200 = 6%, MC = 3.1%	N/A
	5 to 22 ft	Sand (SP) P200 = 2%, MC = 3.4 to 3.5%	
TH22-49	0 to 22 ft	Sand (SP) P200 = 3 to 4%, MC = 2.0 to 4.2%	N/A
TH22-64	0 to 7.5 ft	Sandy Silt (ML) P200 = 52 to 64%, MC = 19.8 to 20.1%	N/A
	7.5 to 22 ft	Sand (SP) P200 = 4 to 5%, MC = 3.8 to 9.4%	
TH22-65	0 to 15 ft	Silty Sand with Gravel (SM) P200 = 21%, MC = 6.9 to 7.7%	N/A
	15 to 22 ft	Silty Sand (SM) P200 = 34%, MC = 7.8 to 14.0%	

Table 8: Geotechnical Summary of Subsurface Conditions in Off-Road Test Holes, MP 89 to 91

Test Hole	Depth Below Surface	Material Type	Groundwater (feet bgs)
TH22-19	0 to 3.5 ft	Sand with Silt (SP-SM) P200 = 11%, MC = 8.2%	N/A
	3.5 to 7.5 ft	Silty Sand (SM) P200 = 19%, MC = 7.7%	
	7.5 to 15 ft	Silt with Sand (ML) P200 = 55%, MC = 16.5%	
	15 to 22 ft	Silty Sand (SM) P200 = 47%, MC = 10.6%	
TH22-34	0 to 15 ft	Sand with Silt (SP-SM) P200 = 6%, MC = 3.7 to 14.2%	N/A
	15 to 22 ft	Sand (SP) P200 = 3%	
TH22-35	10 to 22 ft	Silty Sand (SM) P200 = 13 to 48%, MC = 6.6 to 11.8%	N/A
TH22-39	0 to 18 ft	Sandy Silt (ML) P200 = 50 to 57%, MC = 9.6 to 16.2%	N/A
	18 to 22 ft	Silty Sand (SM)	

Table 8: Geotechnical Summary of Subsurface Conditions in Off-Road Test Holes, MP 89 to 91 (cont.)

Test Hole	Depth Below Surface	Material Type	Groundwater (feet bgs)
TH22-42	0 to 4 ft	Sand with Silt and Gravel (SP-SM) P200 = 8%, MC = 3.6%	N/A
	4 to 10 ft	Silty Sand with Gravel (SM) P200 = 38%, MC = 11.2%	
	10 to 22 ft	Sandy Silt (ML) P200 = 59%, MC = 6.2%	
TH22-43	0 to 3 ft	Sand with Gravel (SP) MC = 3.1%	N/A
	3 to 7 ft	Silty Sand with Gravel (SM) P200 = 35%, MC = 9.1%	
	7 to 14 ft	Silty Sand (SM) P200 = 19%, MC = 10.8 to 12.5%	
	14 to 22 ft	Silty Sand with Gravel (SM) P200 = 31%, MC = 9.5%	
TH22-44	0 to 2.5 ft	Sand with Gravel (SP)	N/A
	2.5 to 4 ft	Sandy Silt (ML) MC = 12.1%	
	4 to 19 ft	Silty Sand (SM) P200 = 20 to 21%, MC = 6.4 to 8.7%	
	19 to 22 ft	Sandy Silt (ML) MC = 8.8%	
TH22-45	0 to 5 ft	Sand with Silt (SP-SM) P200 = 13%	N/A
	5 to 7 ft	Silty Sand (SM) P200 = 36%, MC = 11.1%	
	7 to 13 ft	Silty Sand (SM) P200 = 23%, MC = 14.2%	
	13 to 22 ft	Slightly Organic Silt with Sand (ML) MC = 11.6 to 26.2%, Org. = 4.0%	
TH22-46	0 to 6 ft	Silty Sand with Gravel (SM) P200 = 16 to 20%, MC = 5.2 to 8.5%	N/A
	6 to 10 ft	Sand with Silt and Gravel (SP-SM) P200 = 10%, MC = 5.1%	
	10 to 22 ft	Silty Sand with Gravel (SM) P200 = 24%, MC = 12.3%	

Table 8: Geotechnical Summary of Subsurface Conditions in Off-Road Test Holes, MP 89 to 91 (cont.)

Test Hole	Depth Below Surface	Material Type	Groundwater (feet bgs)
TH22-62	0 to 5 ft	Silty Sand (SM) P200 = 37%, MC = 10.6%	N/A
	5 to 15 ft	Silty Sand with Gravel (SM) P200 = 28 to 32%, MC = 5.3 to 10.5%	
	15 to 20.5 ft	Sandy Silt (ML) P200 = 54%, MC = 13.1%	
	20.5 to 22 ft	Organic Silt (OL) MC = 98.4%, Org. = 35.1%	
	22 to 27 ft	Sandy Silt (ML) P200 = 57%, MC = 17.3%	
TH22-63	0 to 6.5 ft	Sand (SP) P200 = 3%, MC = 4.2 to 4.4%	N/A
	6.5 to 8.5 ft	Silty Sand (SM) P200 = 28%, MC = 12.1%	
	8.5 to 22 ft	Sand (SP) P200 = 4%, MC = 3.4 to 4.5%	

Table 9: Geotechnical Summary of Subsurface Conditions in Off-Road Test Holes, MP 91 to 92.5

Test Hole	Depth Below Surface	Material Type	Groundwater (feet bgs)
TH22-22	0 to 3 ft	Sand with Gravel (SP) MC = 4.8%	N/A
	3 to 7 ft	Silty Sand (SM) P200 = 26%, MC = 8.2%	
	7 to 13 ft	Sand with Silt and Gravel (SP-SM) P200 = 7%, MC = 3.6 to 3.9%	
	13 to 22 ft	Silt with Sand (ML) P200 = 50%, MC = 13.8%	
TH22-40	0 to 4 ft	Silty Sand (SM) P200 = 25%, MC = 10.3%	N/A
	4 to 22 ft	Sand with Silt and Gravel (SP-SM) P200 = 7 to 11%, MC = 2.6 to 3.4%	
TH22-41	0 to 5 ft	Slightly Organic Silty Sand (SM) P200 = 47%, MC = 23.1%, Org. = 3.5%	N/A
	5 to 7 ft	Organic Silty Sand (SM) MC = 40.7%, Org. = 6.5%	
	7 to 22 ft	Silty Sand (SM) P200 = 44%, MC = 10.1 to 14.9%	

Table 9: Geotechnical Summary of Subsurface Conditions in Off-Road Test Holes, MP 91 to 92.5 (cont.)

Test Hole	Depth Below Surface	Material Type	Groundwater (feet bgs)
TH22-51	0 to 2.5 ft	Sand with Silt (SP-SM)	N/A
	2.5 to 7.5 ft	Silty Sand with Gravel (SM) P200 = 42%, MC = 9.3 to 16.0%	
	7.5 to 22 ft	Sandy Silt (ML) P200 = 63 to 79%, MC = 11.5%	
TH22-54	0 to 6 ft	Sand with Silt (SP-SM) P200 = 6%, MC = 16.6 to 17.4%	N/A
	6 ft	Geotextile Fabric	
	6 to 15 ft	Sandy Silt (ML) P200 = 60%, MC = 15.2 to 17.2%	
	15 to 22 ft	Silt with Sand (ML) P200 = 75%, MC = 16.1%	
TH22-60	0 to 7.5 ft	Silty Sand with Gravel (SM) P200 = 35%, MC = 11.3%	N/A
	7.5 to 10 ft	Silty Sand (SM) P200 = 43%, MC = 10.5%	
	10 to 20 ft	Silt (ML) P200 = 82%, MC = 17.1%	
	20 to 22 ft	Sandy Silt (ML) P200 =66%	
TH22-61	0 to 7.5 ft	Sandy Silt (ML) P200 =52%, MC = 12.3 to 15.8%	N/A
	7.5 to 15 ft	Silty Sand with Gravel (SM) P200 = 39%, MC = 10.4 to 10.9%	
	15 to 22 ft	Sandy Silt (ML) P200 = 60%, MC = 14.7%	

Table 10: Geotechnical Summary of Subsurface Conditions in Off-Road Test Holes, MP 92.5 to 94

Test Hole	Depth Below Surface	Material Type	Groundwater (feet bgs)
TH22-26	0 to 7 ft	Sandy Silt with Gravel (ML) P200 = 45%, MC = 8.3 to 10.9%	N/A
	7 to 13 ft	Silty Sand with Gravel (SM) P200 = 17%, MC = 6.6%	
	13 to 19 ft	Sand with Silt and Gravel (SP-SM) P200 = 9%, MC = 5.8%	
	19 to 22 ft	Sand with Gravel (SP)	

Table 10: Geotechnical Summary of Subsurface Conditions in Off-Road Test Holes, MP 92.5 to 94 (cont.)

Test Hole	Depth Below Surface	Material Type	Groundwater (feet bgs)
TH22-29	0 to 5 ft	Sand with Silt and Gravel (SP-SM) P200 = 7%, MC = 4.1%	N/A
	5 to 7.5 ft	Sandy Silt (ML) P200 = 50%, MC = 20.0%	
	7.5 to 12 ft	Silty Sand (SM) P200 = 41%, MC = 10.0 to 13.1%	
TH22-52	0 to 1.5 ft	Sand with Silt and Gravel (SP-SM)	N/A
	1.5 to 2.5 ft	Organic Silt (OL/ML)	
	2.5 to 14 ft	Slightly Organic Silt with Sand (ML) P200 = 63%, MC = 13.3 to 16.1%, Org. = 2.0 to 2.1%	
	14 to 19 ft	Silt with Sand (ML) P200 = 82%	
	19 to 22 ft	Silty Sand (SM) P200 = 39%	
TH22-55	0 to 3 ft	Sand with Gravel (SP) MC = 7.1%	N/A
	3 to 20 ft	Silty Sand with Gravel (SM) P200 = 21 to 30%, MC = 2.4 to 8.9%	
	20 to 22 ft	Silty Sand (SM) P200 = 20%, MC = 7.6%	
TH22-56	0 to 5 ft	Silty Sand (SM) P200 = 23%, MC = 6.1%	N/A
	5 to 7.5 ft	Silty Sand with Gravel (SM) P200 = 26%, MC = 6.0%	
	7.5 to 10 ft	Sandy Silt (ML) P200 = 53%	
	10 to 11.5 ft	Silty Sand (SM) P200 = 22%, MC = 8.6%	
	11.5 to 22 ft	Sandy Silt (ML) P200 = 69%, MC = 17.6%	
TH22-57	0 to 5 ft	Slightly Organic Silty Sand with Gravel (SM) P200 = 37%, MC = 10.2%, Org. = 2.1%	7.5
	5 to 7.5 ft	Organic Silty Sand with Gravel (SM) MC = 19.5%, Org. = 5.8%	
	7.5 to 22 ft	Sandy Silt (ML) P200 = 49 to 52%, MC = 14.2 to 21.3%	

Table 10: Geotechnical Summary of Subsurface Conditions in Off-Road Test Holes, MP 92.5 to 94 (cont.)

Test Hole	Depth Below Surface	Material Type	Groundwater (feet bgs)
TH22-58	0 to 5 ft	Sandy Silt (ML) P200 =70%, MC = 22.1%	N/A
	5 to 7.5 ft	Silty Sand (SM) P200 = 18%, MC = 9.1%	
	7.5 to 15 ft	Sandy Silt (ML) P200 =48%, MC = 12.7 to 17.7%	
	15 to 22 ft	Silt (ML) P200 = 84%	
TH22-59	0 to 10 ft	Silt (ML) P200 = 88%, MC = 25.3 to 34.7%	N/A
	10 to 15.5 ft	Sandy Silt (ML) P200 =50%, MC = 13.8%	
	15.5 to 22 ft	Sand with Silt (SP-SM) P200 = 8%, MC = 6.9%	

REFERENCES

Coulter, H.W., et al.., *"Map Showing Extent of Glaciations in Alaska"*, U.S. Geological Survey Miscellaneous Geologic Investigations Map I-415. 1965.

DOWL, *"Geotechnical Data Report: Sterling Highway MP58-MP79 Skilak Lake Road to Sterling Rehabilitation and Passing Lanes,"* Project No. Z54990. March 2016.

DOWL, *"Subsurface Investigation – Sterling Highway Mile 84 to Soldotna,"* Work Order No. D12352. June 1981.

Ferrians, OJ., Jr., *"Permafrost Map of Alaska"*, U.S. Geological Survey Miscellaneous Geologic Investigations Map I-445. 1965.

Reger, R.D., Sturmann, A.G., Berg, E.E., Burns, P.A.C. ADGGS. *"A Guide to the Late Quaternary History of Northern and Western Kenai Peninsula, Alaska.*" 2007.

R&M Consultants, Inc., *"Geotechnical Data Report: Sterling Highway MP 45-60 Sunrise to Skilak Lake Road Reconstruction – Stage 1A (MP 56-58),"* Project No. Z53014. September 2020.

Staff. State of Alaska DOT&PF. *"Alaska Geotechnical Procedures Manual"*. May 2007.

Staff. State of Alaska DOT&PF. *"Centerline Soils and Material Site Investigation: Soldotna Urban,"* Project Nos. F-021-1(13) & F-021-2(4). August 1970.

Staff. State of Alaska DOT&PF. *"Geotechnical Report – Soldotna: Funny River Road Improvements,"* Project No. 53750. April 2015.

Staff. State of Alaska DOT&PF. *"Geotechnical Report – Sterling Highway (Mile 82-94),"* Project No IR-OA3(3)/56375. May 1991.

Wahrhaftig, Clyde, *Physiographic Divisions of Alaska*, United States Geological Survey, Professional Paper 482. 1965.

Western Regional Climate Center. *Monthly climate summary for Kenai Muni AP, Alaska.* http://www.wrcc.dri.edu/. Accessed 2022.

APPENDIX A

2022 TEST HOLE LOCATION MAP

Miles
0 0.1 0.2

N

82.5

82

Sterling

Off-Road Test Holes

On-Road Test Holes

Mileposts

State of Alaska
Department of Transportation
and Public Facilities
Sterling Hwy Safety Corridor Improvements - MP 82.5 to 94

FIGURE 2

2022 Test Hole Location Map

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community. Imagery Date Unknown

Miles
0 0.1 0.2

N

TH22-37
TH22-03
84
TH22-70
TH22-02
TH22-36
83.5
TH22-01
83

Off-Road Test Holes
On-Road Test Holes
Mileposts

State of Alaska
Department of Transportation
and Public Facilities
Sterling Hwy Safety Corridor Improvements - MP 82.5 to 94

FIGURE 3

2022 Test Hole Location Map

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community. Imagery Date Unknown

Miles
0 0.1 0.2

N

TH22-53
TH22-05
TH22-50
TH22-04
TH22-32
TH22-69
TH22-37
TH22-68
85
84.5
84

Off-Road Test Holes
On-Road Test Holes
Mileposts

State of Alaska
Department of Transportation
and Public Facilities
Sterling Hwy Safety Corridor
Improvements - MP 82.5 to 94

FIGURE 4

2022 Test Hole Location Map

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community. Imagery Date Unknown

Miles
0 0.1 0.2

N

TH22-06
TH22-67
85.5
TH22-66
TH22-38
TH22-07
86
TH22-53
85
TH22-05
TH22-50

Off-Road Test Holes
On-Road Test Holes
Mileposts

State of Alaska
Department of Transportation
and Public Facilities
Sterling Hwy Safety Corridor
Improvements - MP 82.5 to 94

FIGURE 5

2022 Test Hole Location Map

Source: Esri, Maxar, Earthstar Geographics, and the
GIS User Community. Imagery Date Unknown

Miles
0 0.1 0.2

N

TH22-38
TH22-07
86
TH22-49
TH22-31
86.5
TH22-08
TH22-48
TH22-10
TH22-09
87

Off-Road Test Holes
On-Road Test Holes
Mileposts

State of Alaska
Department of Transportation
and Public Facilities
Sterling Hwy Safety Corridor Improvements - MP 82.5 to 94

FIGURE 6

2022 Test Hole Location Map

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community. Imagery Date Unknown

Miles
0 0.1 0.2

N

TH22-09
TH22-10
87
TH22-11
87.5
TH22-13
TH22-65
TH22-14
88

Off-Road Test Holes
On-Road Test Holes
Mileposts

State of Alaska
Department of Transportation
and Public Facilities
Sterling Hwy Safety Corridor Improvements - MP 82.5 to 94

FIGURE 7

2022 Test Hole Location Map

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community. Imagery Date Unknown

Miles
0 0.1 0.2

N

TH22-65
TH22-14
88
TH22-47
TH22-12
TH22-15
TH22-33
88.5
TH22-64
TH22-16
89
TH22-34

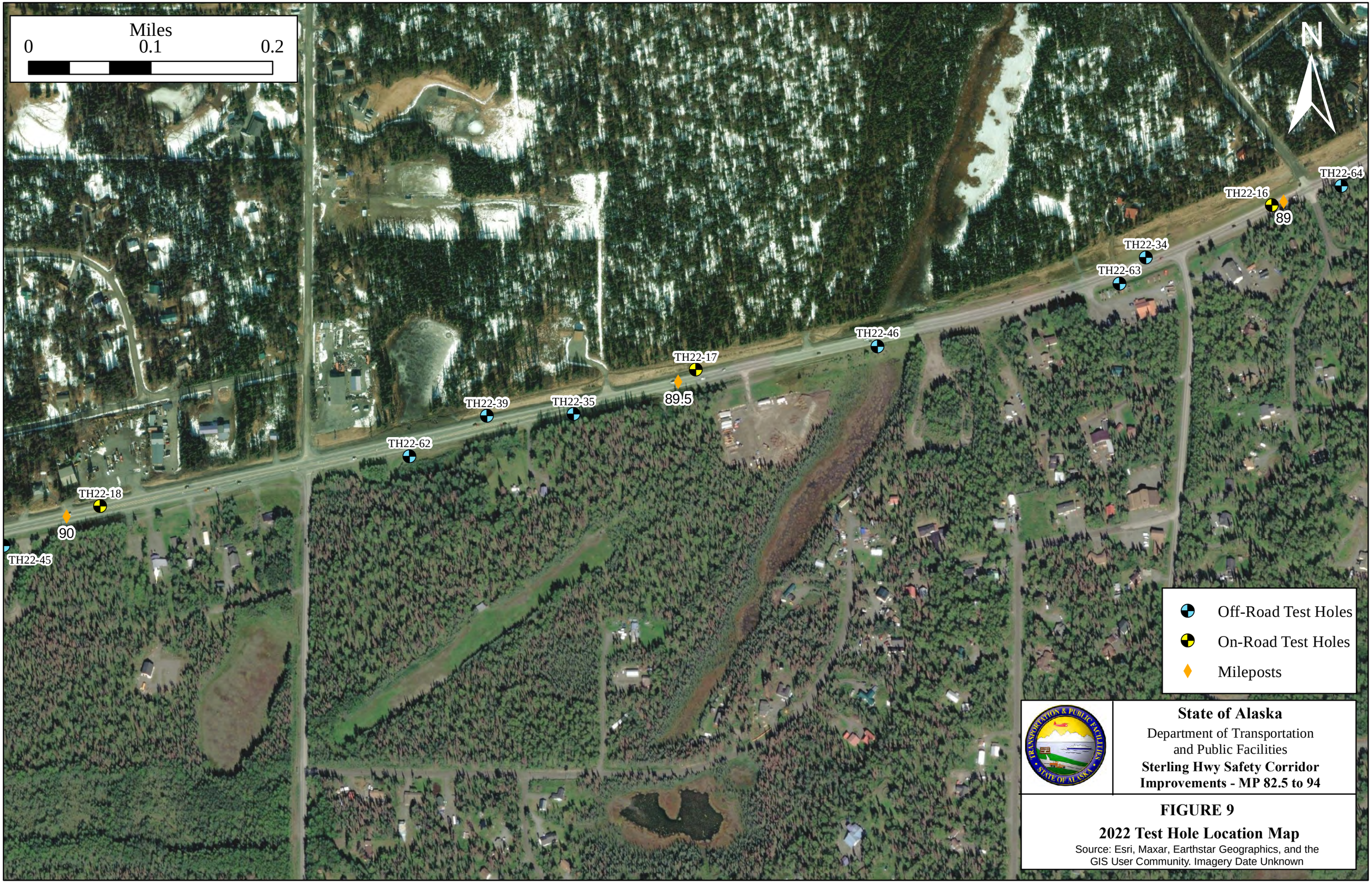
Off-Road Test Holes
On-Road Test Holes
Mileposts

State of Alaska
Department of Transportation
and Public Facilities
Sterling Hwy Safety Corridor
Improvements - MP 82.5 to 94

FIGURE 8

2022 Test Hole Location Map

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community. Imagery Date Unknown



State of Alaska
Department of Transportation
and Public Facilities
Sterling Hwy Safety Corridor Improvements - MP 82.5 to 94

FIGURE 9

2022 Test Hole Location Map

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community. Imagery Date Unknown

State of Alaska
Department of Transportation
and Public Facilities
Sterling Hwy Safety Corridor Improvements - MP 82.5 to 94

FIGURE 10

2022 Test Hole Location Map

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community. Imagery Date Unknown

Miles
0 0.1 0.2

N

MP ~91.4 Dip

TH22-25
TH22-24
TH22-23
TH22-54
TH22-41
TH22-22
TH22-21
91
TH22-61
TH22-51
TH22-27
TH22-60
92

Off-Road Test Holes
On-Road Test Holes
Mileposts

State of Alaska
Department of Transportation
and Public Facilities
Sterling Hwy Safety Corridor
Improvements - MP 82.5 to 94

FIGURE 11

Proposed 2022 Test Hole Location Map

Source: Esri, Maxar, Earthstar Geographics, and the
GIS User Community. Imagery Date Unknown

Miles
0 0.1 0.2

N

TH22-27
TH22-51
92
TH22-60
TH22-30
92.5
TH22-40
TH22-55
TH22-26
TH22-59
TH22-28
93

Off-Road Test Holes
On-Road Test Holes
Mileposts

State of Alaska
Department of Transportation
and Public Facilities
Sterling Hwy Safety Corridor Improvements - MP 82.5 to 94

FIGURE 12

2022 Test Hole Location Map

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community. Imagery Date Unknown

Miles
0 0.1 0.2

N

TH22-28
93
TH22-52
93.5
TH22-58
TH22-57
TH22-29
TH22-56
94
Soldotna

Off-Road Test Holes
On-Road Test Holes
Mileposts

State of Alaska
Department of Transportation
and Public Facilities
Sterling Hwy Safety Corridor
Improvements - MP 82.5 to 94

FIGURE 13

2022 Test Hole Location Map

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community. Imagery Date Unknown

APPENDIX B

2022 TEST HOLE LOGS

TEST HOLE LOG

HOLE # LEGEND

ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : TH/TP Year - Sequential Number
PROJECT : *TEST HOLE EXPLANATION*
NORTHING : *1000*, ***EASTING :*** *2000*

Station / Location: *Hole Location, Station or Coordinates*
Offset: *Offset Location if applicable*
Elevation: *Elevation*

Equipment Type:
Drilling Method: *Drilling Method*
Field Crew: *Driller, Helper*

Total Depth: *19.0 feet*
Date: *1/18/2005 -*
Geologist: *Geologist*

Ground Water Data		
Depth in (ft.)	15	15.5
Time	10:00	15:05
Date	1/1/04	1/2/04
Symbol	▼	▽

Weather: This section is for weather notes

SUBSURFACE MATERIAL

SOIL GRAPHIC AND SOIL TYPE EXPLANATION All graphics are generic representations of soil type and do not match soils as seen in-situ. Graphics are combined for different classifications

GP **GRAVEL** (GP)
GW **GRAVEL** (GW)
SP **SAND** (SP)
SW **SAND** (SW)
ML **SILT** (ML)
MH **SILT** (MH)
CL **CLAY** (CL)
CH **CLAY** (CH)
PT **Peat** (PT) fibric (f), hemic (h), or sapric (s)
OL **ORGANICS** (OL)

TRANSITIONAL SOIL CHANGE
ICE or Frozen Soil Interval
Cobble or Boulder Location
BEDROCK

SAMPLE DATA EXPLANATION Standard Penetration Test Split Spoon Sample 1.4" ID x 2" OD with Uncorrected N-Value
Split Spoon Sample 2.0" ID x 2.5" OD
Split Spoon Sample 2.5" ID x 3" OD
Grab Sample
Auger Cuttings Grab Sample
Excavator Bucket Grab Sample
Rock Core
Shelby Tube thin wall 3" OD
Modified Shelby Tube (size)
No Recovery
Sample Not Tested or Retained
Field Weighted Sample
Undisturbed Sample
Vane Shear Test: Vane Radius =X", Vane Height = X", Vane Shear Undisturbed Torque=X, Vane Shear Remoulded Torque=X

Groundwater level while drilling
Groundwater level after drilling

LABORATORY TEST RESULTS EXPLANATION
1234 p200=(passing the #200 sieve)%, Sa=(retained between #200 - #4 sieve)%, Gr=(retained between #4 - 3" sieve)%, +3"=(retained between 3" -12" sieve)%, +12"=(>12" sieve)%, Moisture=(raw)%, Org=(organic content)%, PI=(Plastic Index, NP=nonplastic), LL=(Liquid Limit, NV=No Value), Degradation=#, LA Abrasion=#%, Max. Dry Dens=#pcf, Opt. Moisture=#%, Sodium Sulfate Soundness (coarse)=#%, Sodium Sulfate Soundness (fine)=#%, p0.0075µ=(from hydrometer smaller than 0.0075µ)%

BOH 19

Notes:
This section is for drilling notes and additional equipment descriptions

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic
0								
1							GP, GW	
2							SP, SW	
3							ML, MH	
4							CL, CH	
5							PT, OL	
6								
7								
8	SPT, SS, MC	Sample Number	1, 2, 3			5		
9	GRAB, AUGER							
10	EB							
11	CORE, ST							
12	MS							
13	NR, SNT							
14	FLD WT, UNDIST, VANE							
15								
16		1234	1, 2, 3, 4					
17	SPT					5		
18								
19								

A USCS LOG OF TEST HOLE FEB 13 2007 LOG LEGEND.GPJ 2006DATATEMPLATE.GDT 2/13/07

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

TEST HOLE LOG

HOLE # Organic Soils

ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER :
PROJECT : *TEST HOLE EXPLANATION*
LATITUDE : *1000* ***LONGITUDE :*** *2000*
Coordinate System:
Equipment_Type: *Drill Rig*
Drilling Method: *Drilling Method*
Field Crew: *Driller, Helper*

Station / Location: *datum=D_N. American_1983 (6269)*
Offset: *projection= NAD 1983*
Elevation: *Elevation*

Total Depth: *19.0 feet*
Date: *1/18/2005 -*
Geologist: *Geologist*

Ground Water Data		
Depth in (ft.)	13.9	14.5
Time	10:00	13:00
Date	1/1/04	1/2/04
Symbol	▼	▽

Weather: Observed weather conditions

Surface: Surface Vegetation: Observed vegetation conditions in TH vicinity.

Depth (Feet)	Sample Data: Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0									**USCS CLASSIFICATION AND SOIL GRAPHIC EXPLANATION FOR ORGANIC SOILS** 0.0
1							SP		**Slightly Organic Course Grained Soil** (SP) 2-5% Organics in course grained soil. Use the graphic for the specific coarse grained soil type (such as Gravel, Sand, Silty Gravel and Silty Sand etc). 1.0
2							OL/SP		**Organic Course Grained Soil** (OL/SP) 5-15% Organics in course grained soil. Use the graphic for the specific coarse grained soil type (such as Gravel, Sand, Silty Gravel and Silty Sand etc). 2.0
3							OL		**Highly Organic Course Grained Soil** (OL) 15-75% Organics in coarse grained soil. Use the graphic for Organic Soil (OL). 3.0
4							ML		**Slightly Organic Fine Grained Soil** (ML) 2-5% Organics in fine grained soil. Use the graphic for the specific fine grained soil type (such as Silt, Sandy Silt, etc). 4.0
5							OL/ML		**Organic Fine Grained Soil** (OL/ML) 5-15% Organics in fine grained soil. Use the graphic for the specific fine grained soil type (such as Silt, Sandy Silt, etc). 5.0
6							OL		**Highly Organic Fine Grained Soil** (OL) 15-75% Organics in fine grained soil. Use the graphic for Organic Soil (OL). 6.0
7							PT		**Peat** (PT) Fibric (f) Fiber content >67%, Hemic (h) Fiber Content 33-67%, or Sapric (s) Fiber Content <33% 7.0
8									
9									
10									
11									**SAMPLE DATA EXPLANATION** 10.5
12	ST								Shelby Tube thin wall 3" OD
	SPT								SPT Sample Interval and Recovery
13	VANE								Vane Shear Test: undisturbed torque/remolded torque
14									Groundwater level while drilling 13.9
									Groundwater level after drilling 14.5
15			1						**LABORATORY TEST RESULTS EXPLANATION** 15.0
16	SPT	FS1	2 3 4			5			FS1 p200=(passing the #200 sieve)%, Sa=(retained between #200 - #4 sieve)%, Gr=(retained between #4 - 3" sieve)%, +3"=(retained between 3" -12" sieve)%, +12"=(>12" sieve)%, Moisture=(raw)%, Org=(organic content)%, PI=(Plastic Index, NP=nonplastic), LL=(Liquid Limit, NV=No Value), Degradation=#, LA Abrasion=#%, Max. Dry Dens=#pcf, Opt. Moisture=#%, Sodium Sulfate Soundness (coarse)=#%, Sodium Sulfate Soundness (fine)=#%, p0.0075μ=(from hydrometer smaller than 0.0075μ)%
17									
18									
19							BOH 19		19.0 Notes: This section is for drilling notes and additional equipment descriptions

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

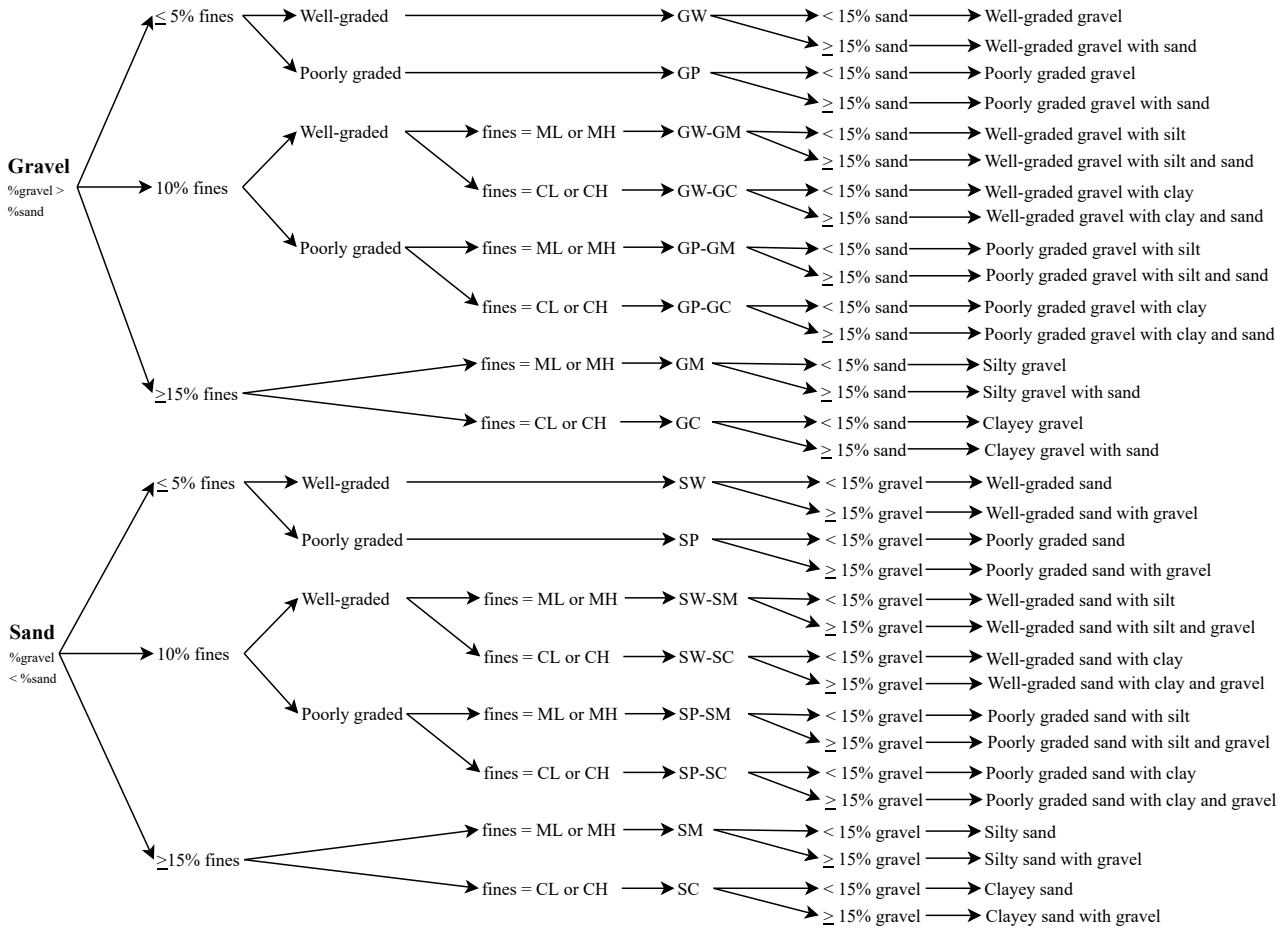
A USCS LOG OF TEST HOLE MARCH 14 2019 LOG LEGEND - EXPANDED TO ORGANIC SOILS V.II.GPJ 2006DATATEMPLATE.GDT 3/14/19

Field /Visual Classification of Soils

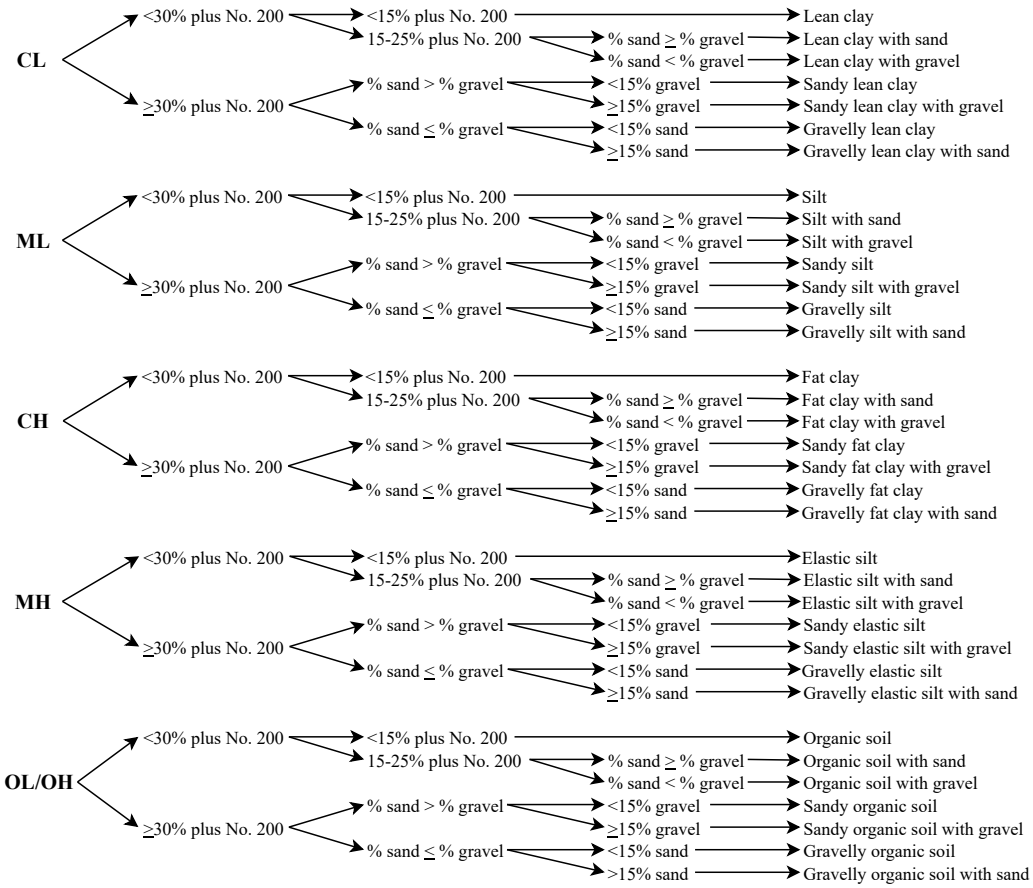
Source: Alaska Field Guide for Soil Classification (Oct. 2013)

After ASTM D2488 (Figures 1a, 1b, and 2)

Flow Chart for Identifying Coarse-Grained Soils



Flow Chart for Identifying Fine-Grained Soils



Laboratory Classification

of Soils for Engineering Purposes
Unified Soil Classification System
ASTM D2487

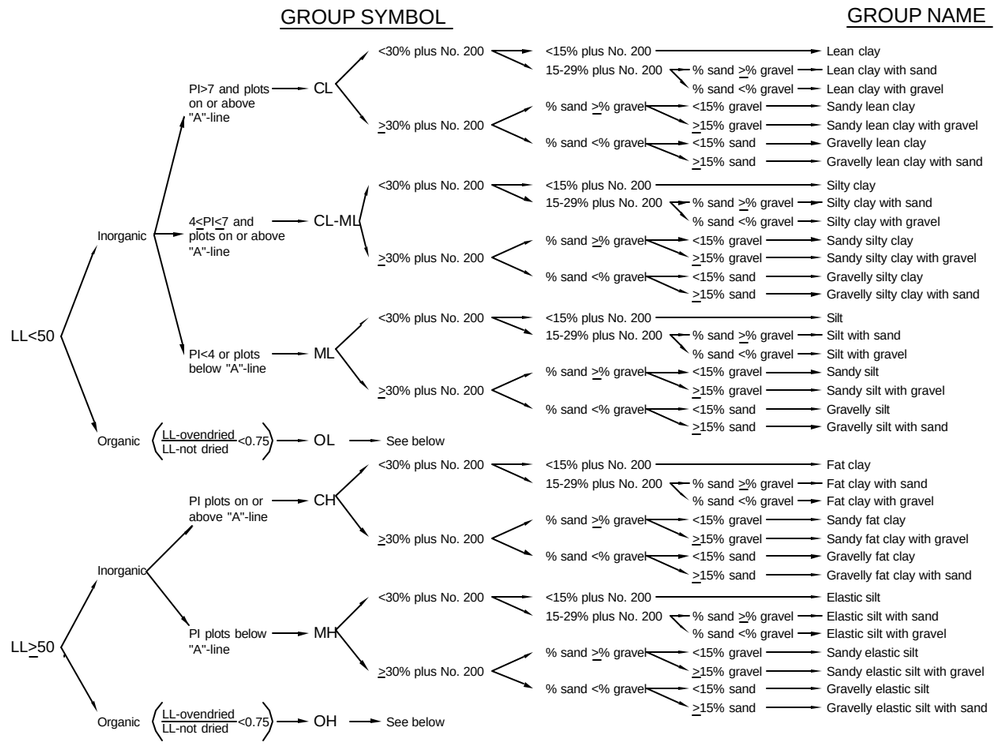


Figure 1: Flow Chart for Classifying Fine-Grained Soil (50% or More Passes No. 200 Sieve)

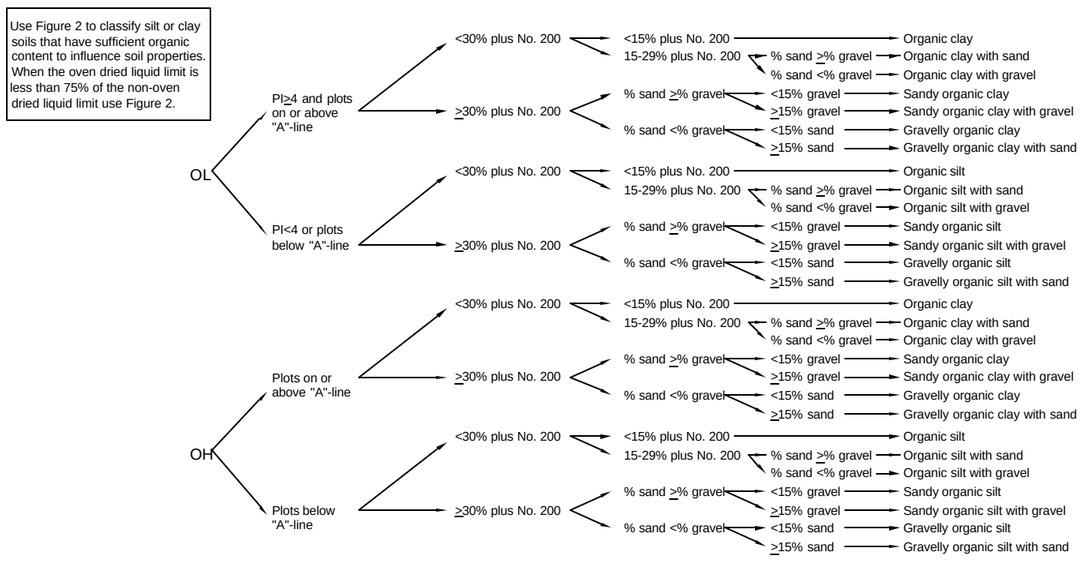
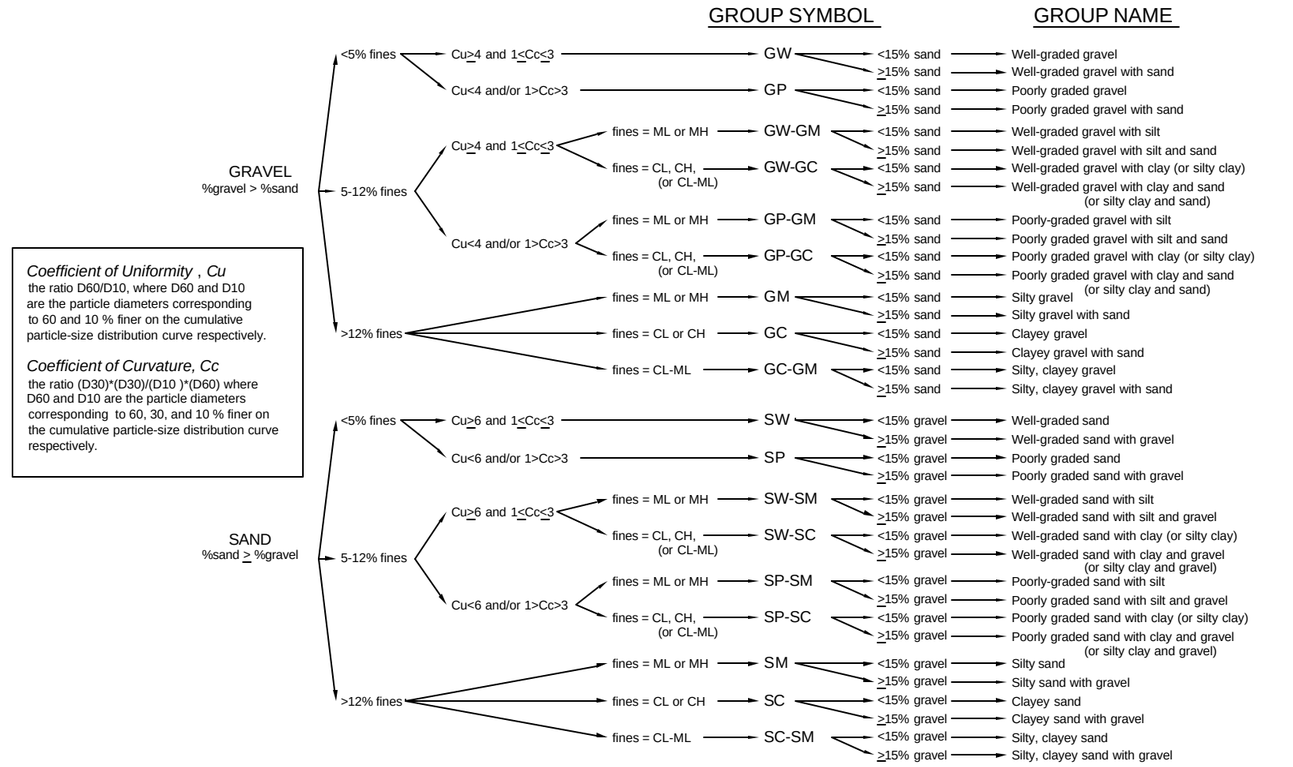


Figure 2: Flow Chart for Classifying Organic Fine-Grained Soil (50% or More Passes No. 200 Sieve)



Coefficient of Uniformity , Cu
the ratio D60/D10, where D60 and D10 are the particle diameters corresponding to 60 and 10 % finer on the cumulative particle-size distribution curve respectively.

Coefficient of Curvature, Cc
the ratio (D30)*(D30)/(D10)*(D60) where D60 and D10 are the particle diameters corresponding to 60, 30, and 10 % finer on the cumulative particle-size distribution curve respectively.

Figure 3: Flow Chart for Classifying Coarse-Grained Soil (More Than 50% Retained on No. 200 Sieve)

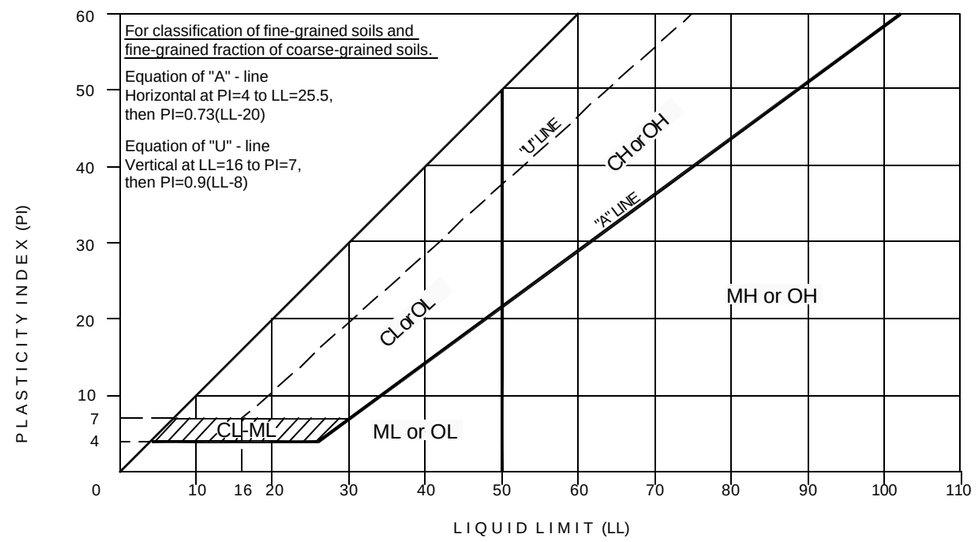
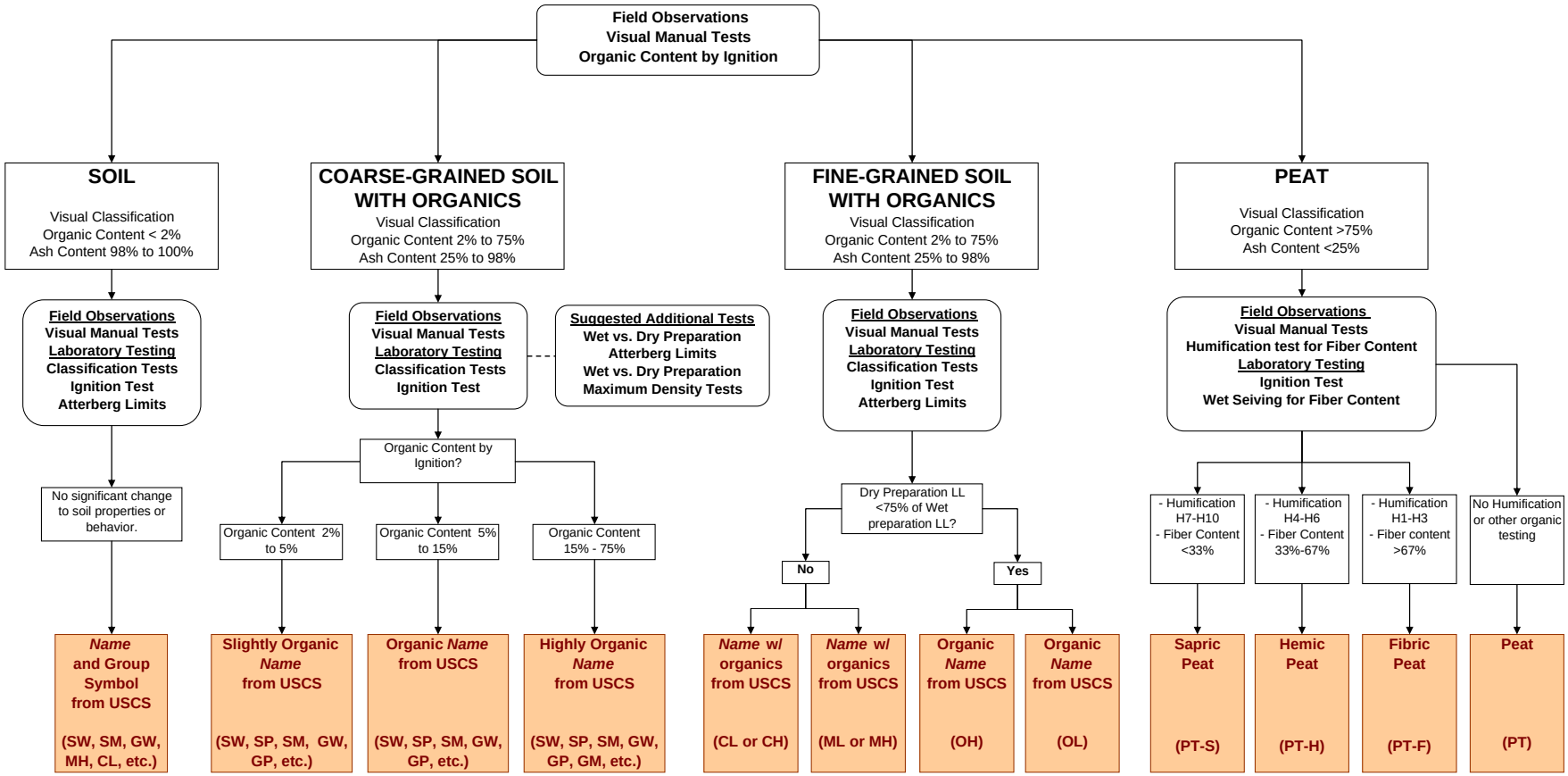


Figure 4: Plasticity Chart

H:\GEOLOGY Stw\Mat\USCS CHART\ASTM D2487-D2488 Chart.dwg 26 APRIL 2005 ASP

Peat and Organic Soil Classification System



Note: The naming convention above for Fine-Grained soils is dependent on performing wet and dry preparation of submitted samples to determine Liquid Limit (LL). If dry and wet preparation is not performed, Central Region Materials will deviate from the Fine-Grained naming convention above and substitute the Course-Grained naming convention (ie., 2-5% organic Content = Slightly organic, 5-15% Organic Content = Organic, 15-75% Organic Content = Highly Organic). March 2019.

TEST HOLE LOG

HOLE # TH22-01

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location: *See TH Location Map*
Offset:
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *12.0 feet*
Date: *9/12/2022 - 9/12/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Overcast

Surface: Asphalt

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0									6" Asphalt — 0.0
0.5	GRAB	FS01					GP-GM		**GRAVEL with Silt and Sand** (GP-GM) Brown, dry to moist FS01 FS01 & FS02 combined for gradation, p200=6%, Sa=42%, Gr=52%, Moisture=2.7%
1									
2	SPT	FS02	10						FS02 Moisture=5.2%
3	SPT	FS03	8				SM		Geotextile Fabric (Stabilization) — 3.0 / 3.1
4			13						**SILTY SAND with Gravel** (SM) Brown, dry to moist FS03 FS03 & FS04 combined for gradation, p200=14%, Sa=48%, Gr=38%, Moisture=6.4%
5			28						
6	SPT	FS04	6			40			FS04 Moisture=3.2%
7			19				SP-SM		**SAND with Silt and Gravel** (SP-SM) Brown, dry — 7.0
8			21						FS05 FS05 & FS06 combined for gradation, p200=8%, Sa=50%, Gr=42%, Moisture=3.4%
9	SPT	FS05	31						
10			6			41			
11	SPT	FS06	16						
12			25						
			32						
			14						
			20						
			28			48			
			21						BOH 12 — 12.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/20/22

TEST HOLE LOG

HOLE # TH22-02

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *12.0 feet*
Date: *9/12/2022 - 9/12/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)	2	
Time		
Date		
Symbol	▼	

Weather: Light Rain

Surface: Asphalt

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0									5.5" Asphalt — 0.0
0.5	GRAB	FS07					SP		**SAND with Gravel** (SP) Brown Grey, dry FS07 Moisture=2.2%
2							SP-SM		**SAND with Silt** (SP-SM) Light brown, moist to wet — 2.0
3	SPT	FS08	9 11 14 11			25			FS08 FS08 & FS09 combined for gradation, p200=7%, Sa=73%, Gr=20%, Moisture=9.2%
5									FS09 Moisture=12.1%
6	SPT	FS09 FS10	3 4 2 2				ML		**SILT** (ML) Brown, dry FS10 FS10 & FS11 combined for gradation, p200=89%, Sa=9%, Gr=2%, Moisture=79.9% — 6.0
8	SPT	FS11	2 2 4 9			6			
10	SPT	FS12	10						FS12 Moisture=2.6%
10.5	SPT	FS13	28 25 23				SP-SM		**SAND with Silt and Gravel** (SP-SM) Brown Grey, dry to moist FS13 p200=8%, Sa=59%, Gr=33% — 10.5
12								BOH 12	12.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

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TEST HOLE LOG

HOLE # TH22-03

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location: *See TH Location Map*
Offset:
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *17.0 feet*
Date: *9/12/2022 - 9/12/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)	2	
Time		
Date		
Symbol	▼	

Weather: Light Rain

Surface: Asphalt

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0									5.5" Asphalt — 0.0
0.5	GRAB	FS14					SP-SM		**SAND with Silt and Gravel** (SP-SM) Brown, moist to wet — 0.5 FS14 FS14, FS15 & FS16 combined for gradation, p200=8%, Sa=47%, Gr=45%, Moisture=2.9%
2									
3	SPT	FS15	10 13 11 8			24			FS15 Moisture=8.0%
5									
6	SPT	FS16	2 4 3 1				CL		**CLAY** (CL) Light brown, dry — 6.0
7									
8	SPT	FS17	2 2 3 5			5			FS17 FS17 & FS18 combined for gradation Atterberg limits, p200=90%, Sa=10%, Gr=0%, Moisture=29.4%, PI=19, LL=40
10									
11	SPT	FS18	2 3 4 5			7			
12									
13									
13.5							GP-GM		**GRAVEL with Silt and Sand** (GP-GM) Grey Brown, dry — 13.5
14									
15	SPT	FS19	13 25 35 38			60			FS19 p200=7%, Sa=46%, Gr=47%, Moisture=2.0%
17								BOH 17	17.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

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TEST HOLE LOG

HOLE # TH22-04

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location: *See TH Location Map*
Offset:
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *12.0 feet*
Date: *9/13/2022 - 9/13/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Light Rain

Surface: Asphalt

Depth (Feet)	Sample Data: Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0									5.5" Asphalt — 0.0
0.5	GRAB	FS20					SP-SM		**SAND with Silt and Gravel** (SP-SM) Brown, dry to moist FS20 FS20 & FS21 combined for gradation, p200=5%, Sa=46%, Gr=49%, Moisture=3.0%
3	SPT	FS21	9 20 16 19				SM		FS21 Moisture=4.1% **SILTY SAND with Gravel** (SM) Brown, dry to moist — 3.5
6	SPT	FS22	11 21 30 15				SM		FS22 p200=23%, Sa=49%, Gr=28%, Moisture=7.2% **SILTY SAND** (SM) Light brown, dry to moist — 6.0
9	SPT	FS23	4 9 18 31				GP-GM		FS23 p200=23%, Sa=74%, Gr=3%, Moisture=10.1% **GRAVEL with Silt and Sand** (GP-GM) Brown Grey, dry — 9.0
12	SPT	FS24	15 34 32 31			66		BOH 12	FS24 p200=8%, Sa=40%, Gr=52% — 12.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

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TEST HOLE LOG

HOLE # TH22-05

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *12.0 feet*
Date: *9/13/2022 - 9/13/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Light Rain

Surface: Asphalt

Depth (Feet)	Sample Data: Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0									4.5" Asphalt — 0.0
0.4	GRAB	FS25					SP		**SAND with Gravel** (SP) Brown, dry FS25 Moisture=2.4%
2.5	SPT	FS26	8 11 19 23				SP-SM		**SAND with Silt** (SP-SM) Light brown, dry to moist FS26 p200=11%, Sa=86%, Gr=3%, Moisture=4.2%
4.0	SPT	FS27	4 27 35 40			62	SM		**SILTY SAND with Gravel** (SM) Light brown, dry FS27 Moisture=5.3%
7.0	SPT	FS28	10 25 18 18			43	SM		**SILTY SAND** (SM) Light brown, dry to moist, Trace to slight org. FS28 Moisture=12.7%
12.0	SPT	FS29	3 5 7 9			12		BOH 12	FS29 FS28 & FS29 combined for gradation, p200=47%, Sa=50%, Gr=3%

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

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TEST HOLE LOG

HOLE # TH22-06

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location: *See TH Location Map*
Offset:
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *12.0 feet*
Date: *9/13/2022 - 9/13/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Light Rain

Surface: Asphalt

Depth (Feet)	Sample Data: Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0									4.5" Asphalt — 0.0
0.4	GRAB	FS31					SP-SM		**SAND with Silt and Gravel** (SP-SM) Grey Brown, dry to moist FS31 FS30 & FS31 combined for gradation, p200=5%, Sa=55%, Gr=40%, Moisture=3.0%
2.5	SPT	FS32	5, 17, 18, 21			35			FS32 Moisture=2.6%
5	SPT	FS33	8, 13, 16, 17			29			FS33 Moisture=2.8%
7.5									Geotextile Fabric (Stabilization) — 7.5
7.6	SPT	FS34	4, 23, 44, 53				SM		**SILTY SAND** (SM) Brown Light brown, dry to moist FS34 Moisture=5.8%
10	SPT	FS35	9, 33, 30, 37			63			FS35 FS34 & FS35 combined for gradation, p200=14%, Sa=74%, Gr=12%, Moisture=13.8%
12								BOH 12	12.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

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TEST HOLE LOG

HOLE # TH22-07

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *12.0 feet*
Date: *9/13/2022 - 9/13/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Overcast

Surface: Asphalt

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0									6.5" Asphalt — 0.0
0.5	GRAB	FS36					SP		**SAND with Gravel** (SP) Brown, dry FS36 Moisture=5.8% — 0.5
2							SM		**SILTY SAND** (SM) Grey Light brown, dry to moist — 2.0
3	SPT	FS37	15 25 23 41						FS37 p200=13%, Sa=85%, Gr=2%, Moisture=7.2%
3.5							SP-SM		**SAND with Silt and Gravel** (SP-SM) Grey Light brown, dry — 3.5
5	SPT	FS38	9 18 20 28			38			FS38 Moisture=2.6%
8	SPT	FS39	4 13 16 16			29			FS39 FS38, FS39 & FS40 combined for gradation, p200=7%, Sa=47%, Gr=46%
10	SPT	FS40	7 25 38 37			63			FS40 Moisture=2.6%
12								BOH 12	12.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

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TEST HOLE LOG

HOLE # TH22-08

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location: *See TH Location Map*
Offset:
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *12.0 feet*
Date: *9/13/2022 - 9/13/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Rain

Surface: Asphalt

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0									7" Asphalt — 0.0
1	GRAB	FS41					GP-GM		**GRAVEL with Silt and Sand** (GP-GM) Brown, dry FS41 p200=5%, Sa=46%, Gr=49%, Moisture=2.3% — 0.6
2							SP-SM		**SAND with Silt and Gravel** (SP-SM) Grey Light brown, dry — 2.0
3	SPT	FS42	7 10 18 17			28			FS42 FS42 & FS43 combined for gradation, p200=9%, Sa=59%, Gr=32%, Moisture=2.5%
4									
5									FS43 Moisture=2.2%
6	SPT	FS43	4 10 14 19			24			
7									
8	SPT	FS44	9 10 13 14			23			FS44 FS44 & FS45 combined for gradation, p200=5%, Sa=48%, Gr=47%, Moisture=1.4%
9									
10									FS45 Moisture=1.8%
11	SPT	FS45	7 14 15 20			29			
12								BOH 12	12.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

Sheet Number 1 of 1

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/8/22

TEST HOLE LOG

HOLE # TH22-09

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *12.0 feet*
Date: *9/14/2022 - 9/14/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Overcast

Surface: Asphalt

Depth (Feet)	Sample Data: Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0									5.5" Asphalt — 0.0
0.5	GRAB	FS46					GP-GM		**GRAVEL with Silt and Sand** (GP-GM) Grey Light brown, dry FS46 FS46 & FS47 combined for gradation, p200=5%, Sa=47%, Gr=48%, Moisture=2.0%
3	SPT	FS47	10 20 32 47			52			
5									5.0
6	SPT	FS48	12 20 28 35			48	SP-SM		**SAND with Silt and Gravel** (SP-SM) Grey Light brown, dry FS48 FS48, FS49 & FS50 combined for gradation, p200=8%, Sa=84%, Gr=8%, Moisture=3.7%
8	SPT	FS49	6 21 30 29			51			
10	SPT	FS50	5 17 38 46			55			FS50 Moisture=5.2%
12								BOH 12	12.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-10

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *22.0 feet*
Date: *9/14/2022 - 9/14/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Overcast

Surface: Grass

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SP-SM		**SAND with Silt** (SP-SM) Grey Light brown, dry to moist 0.0
3	SPT	FS51	6, 13, 17, 25			30			FS51 FS51 & FS52 combined for gradation, p200=7%, Sa=80%, Gr=13%, Moisture=4.9%
6	SPT	FS52	5, 14, 19, 26			33			
8	SPT	FS53	9, 20, 23, 31			43			FS53 FS53 & FS54 combined for gradation, p200=8%, Sa=79%, Gr=13%, Moisture=10.9%
11	SPT	FS54	12, 28, 29, 38			57			
16	SPT	FS55	12, 19, 26, 28			45			FS55 FS55 & FS56 combined for gradation, p200=8%, Sa=78%, Gr=14%, Moisture=6.0%
21	SPT	FS56	9, 17, 21, 25			38			
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-11

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *12.0 feet*
Date: *9/14/2022 - 9/14/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Light Rain

Surface: Asphalt

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0									5.5" Asphalt 0.0
0.5	GRAB	FS57					SP-SM		**SAND with Silt and Gravel** (SP-SM) Brown, dry FS57 FS57 & FS58 combined for gradation, p200=6%, Sa=52%, Gr=42%
1									
2									
3	SPT	FS58	17						FS58 Moisture=8.1% 3.0
3	SPT	FS59	10				SC		**CLAYEY SAND with Gravel** (SC) Light brown, dry FS59 FS59 & FS60 combined for gradation and Atterberg limits, p200=35%, Sa=47%, Gr=18%, Moisture=8.2%, PI=4, LL=16
4			12						
4			15						
5									
5			3						FS60 Moisture=8.8%
6	SPT	FS60	12			23			
6			11						
7			13						
7									
8			12						FS61 FS60 & FS61 combined for gradation, p200=40%, Sa=42%, Gr=18%
8	SPT	FS61	21						
9			21			42			
9			40						
10									
10			9						FS62 Moisture=7.3%
11	SPT	FS62	15						
11			23			38			
12			24						
12								BOH 12	12.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-12

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location: *See TH Location Map*
Offset:
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *22.0 feet*
Date: *9/14/2022 - 9/14/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Overcast

Surface: Grass

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SM		**SILTY SAND** (SM) Light brown, dry to moist — 0.0
3	SPT	FS63	1 6 8 13						FS63 p200=45%, Sa=42%, Gr=13%, Moisture=15.2%
4							GP-GM		**GRAVEL with Silt and Sand** (GP-GM) Grey Light brown, dry — 4.0
6	SPT	FS64	4 13 15 13			28			FS64 Moisture=2.7%
8	SPT	FS65	10 15 15 19			30			FS65 FS64, FS65, & FS66 combined for gradation, p200=8%, Sa=42%, Gr=50%
11	SPT	FS66	20 25 15 19			40			FS66 Moisture=2.1%
16	SPT	FS67	8 17 26 25			43			FS67 FS67 & FS68 combined for gradation, p200=6%, Sa=44%, Gr=50%
21	SPT	FS68	13 23 24 25			47			FS68 Moisture=2.1%
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

Sheet Number 1 of 1

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/20/22

TEST HOLE LOG

HOLE # TH22-13

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location: *See TH Location Map*
Offset:
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *22.0 feet*
Date: *9/14/2022 - 9/14/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)	10.5	
Time		
Date		
Symbol	▼	

Weather: Overcast

Surface: Grass/Gravel

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SM		**SILTY SAND with Gravel** (SM) Grey Light brown, dry to moist 0.0
3	SPT	FS69	2 6 13 14			19			FS69 p200=24%, Sa=56%, Gr=20%, Moisture=11.1%
5									5.0
5			3				SM		Double Layer of Geotextile Fabric (Stabilization) 5.1
6	SPT	FS70	20 15 20			35			**SILTY SAND with Gravel** (SM) Grey Light brown, dry to moist FS70 p200=28%, Sa=48%, Gr=24%, Moisture=7.5%
7									7.5
8	SPT	FS71	3 9 21 15				SM		Apparent Second Layer of Geotextile Fabric (Stabilization) 7.6 **SILTY SAND with Gravel** (SM) Grey Light brown, dry to moist FS71 Moisture=10.3%
10									FS72 FS71 & FS72 combined for gradation, p200=42%, Sa=40%, Gr=18%, Moisture=10.0%
11	SPT	FS72	5 11 12 14			23			
15	SPT	FS73	11 45 55R						FS73 FS73 & FS74 combined for gradation, p200=39%, Sa=39%, Gr=22%
20	SPT	FS74	15 50 50R						FS74 Moisture=7.7%
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/20/22

TEST HOLE LOG

HOLE # TH22-14

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *12.0 feet*
Date: *9/15/2022 - 9/15/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Light Rain

Surface: Asphalt

Depth (Feet)	Sample Data: Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0									6" Asphalt — 0.0
0.5	GRAB	FS75					GP-GM		**GRAVEL with Silt and Sand** (GP-GM) Brown Light brown, dry FS75 FS75 & FS76 combined for gradation, p200=5%, Sa=41%, Gr=54%, Moisture=1.7%
2									FS76 Moisture=3.2%
3	SPT	FS76	12						3.0
3	SPT	FS77	14				SM		**SILTY SAND with Gravel** (SM) Light brown, dry FS77 Moisture=4.7%
4			26						
4			41						
5									FS78 FS77 & FS78 combined for gradation, p200=15%, Sa=50%, Gr=35%,
6	SPT	FS78	4						
6			28						
6			37			65			
7			35R						
8			11						FS79 FS79 & FS80 combined for gradation, p200=19%, Sa=68%, Gr=13%, Moisture=7.0%
8	SPT	FS79	36						
9			41			77			
9			52						
10									
11			8						
11	SPT	FS80	31						
11			35			66			
12			42						12.0
								BOH 12	

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-15

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *12.0 feet*
Date: *9/15/2022 - 9/15/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)	6	
Time		
Date		
Symbol	▼	

Weather: Overcast

Surface: Asphalt

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0									6" Asphalt — 0.0
0.5	GRAB	FS81					SP-SM		**SAND with Silt and Gravel** (SP-SM) Brown Light brown, dry FS81 FS81 & FS82 combined for gradation, p200=5%, Sa=47%, Gr=48%
2									FS82 Moisture=2.9%
3	SPT	FS82	11 13 13 16						
3.5							SM		**SILTY SAND** (SM) Light brown, dry to moist
5									FS83 p200=37%, Sa=54%, Gr=9%, Moisture=11.2%
6	SPT	FS83	14 15 15 13			30			
7							ML		**SILT** (ML) Light brown, dry to moist — 7.0
8	SPT	FS84	5 5 6 6			11			FS84 FS84 & FS85 combined for gradation, p200=92%, Sa=8%, Gr=0%, Moisture=21.8%
10									FS85 Moisture=22.6%
11	SPT	FS85	3 5 6 8			11			
12								BOH 12	12.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-16

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *12.0 feet*
Date: *9/15/2022 - 9/15/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Rain

Surface: Asphalt

Depth (Feet)	Sample Data: Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0									7" Asphalt — 0.0
0.6	GRAB	FS86					GP-GM		**GRAVEL with Silt and Sand** (GP-GM) Brown Light brown, dry FS86 FS86 & FS87 combined for gradation, p200=7%, Sa=45%, Gr=48%, Moisture=2.0%
2									FS87 Moisture=2.8%
3.0									Geotextile Fabric (Stabilization) — 3.0
3.1	SPT	FS87	6, 9, 11, 9				ML		**SANDY SILT** (ML) Light brown, dry
5									FS88 p200=58%, Sa=40%, Gr=2%, Moisture=14.6%
6	SPT	FS88	6, 5, 7, 12			12			
7.0							SP		**SAND** (SP) Light brown, dry — 7.0
8									FS89 FS89 & FS90 combined for gradation, p200=4%, Sa=95%, Gr=1%, Moisture=4.5%
9	SPT	FS89	6, 8, 10, 9			18			
10									FS90 Moisture=4.2%
11	SPT	FS90	4, 8, 10, 12			18			
12.0								BOH 12	

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-17

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *12.0 feet*
Date: *9/15/2022 - 9/15/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Rain

Surface: Asphalt

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0									5.5" Asphalt — 0.0
0.5	GRAB	FS91					SP-SM		**SAND with Silt and Gravel** (SP-SM) Light brown Grey, dry — 0.5
1									FS91 FS91 & FS92 combined for gradation, p200=7%, Sa=43%, Gr=50%
2									
3	SPT	FS92	12 35 45 45						FS92 Moisture=2.6%
4							SM		**SANDY SILT** (ML) Light brown, dry — 4.0
5									FS93 p200=39%, Sa=61%, Gr=0%, Moisture=11.1%
6	SPT	FS93	6 17 17 15			34			
7									
8	SPT	FS94	6 10 15 23			25			FS94 FS94 & FS95 combined for gradation, p200=45%, Sa=50%, Gr=5%
9									
10									FS95 Moisture=11.8%
11	SPT	FS95	7 15 12 16			27			
12								BOH 12	12.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

Sheet Number 1 of 1

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-18

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *12.0 feet*
Date: *9/15/2022 - 9/15/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Rain

Surface: Asphalt

Depth (Feet)	Sample Data: Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0									5.5" Asphalt — 0.0
0.5	GRAB	FS96					SP-SM		**SAND with Silt and Gravel** (SP-SM) Brown Light brown, dry — 0.5
1									FS96 FS96 & FS97 combined for gradation, p200=6%, Sa=51%, Gr=43%
2									
3	SPT	FS97	10						FS97 Moisture=4.7% — 3.0
3.1	SPT	FS98	16 16 20				SM		Geotextile Fabric (Stabilization) — 3.1
4									**SILTY SAND** (SM) Light brown, dry
5			9						FS99 FS98 & FS99 combined for gradation, p200=30%, Sa=49%, Gr=21%, Moisture=7.3%
6	SPT	FS99	15 14 10			29			
7							ML		**SILT with Sand** (ML) Light brown, dry — 7.0
8			7						FS100 FS100 & FS101 combined for gradation, p200=80%, Sa=19%, Gr=1%, Moisture=22.3%
9	SPT	FS100	5 7 9			12			
10			4						FS101 Moisture=19.9%
11	SPT	FS101	6 8 9			14			
12								BOH 12	12.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-19

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *22.0 feet*
Date: *9/16/2022 - 9/16/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Overcast

Surface: Grass/Gravel

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SP-SM		**SAND with Silt** (SP-SM) Grey Light brown, dry to moist — 0.0
3	SPT	FS102	4, 10, 8, 14						FS102 p200=11%, Sa=85%, Gr=4%, Moisture=8.2%
4							SM		**SILTY SAND** (SM) Light brown, dry — 3.5
6	SPT	FS103	10, 15, 14, 11			29			FS103 p200=19%, Sa=78%, Gr=3%, Moisture=7.7%
8	SPT	FS104	2, 2, 2, 4			4	ML		**SILT with Sand** (ML) Light brown, dry FS104 FS104 & FS105 combined for gradation, p200=55%, Sa=39%, Gr=6%, Moisture=16.5% — 7.5
11	SPT	FS105	2, 3, 5, 10			8			
15							SM		**SILTY SAND** (SM) Light brown, dry FS106 FS106 & FS107 combined for gradation, p200=47%, Sa=51%, Gr=2%, Moisture=10.6% — 15.0
16	SPT	FS106	27, 32, 23, 25			55			
21	SPT	FS107	11, 16, 14, 16			30			
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-20

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *12.0 feet*
Date: *9/16/2022 - 9/16/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Overcast

Surface: Asphalt

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0									5.5" Asphalt — 0.0
0.5	GRAB	FS108					GP-GM		**GRAVEL with Silt and Sand** (GP-GM) Brown, dry to moist — 0.5 FS108 p200=7%, Sa=34%, Gr=59%, Moisture=2.5%
2							SM		**SILTY SAND** (SM) Light brown, dry — 2.0
3	SPT	FS109	12 21 15 12			36			FS109 FS109 & FS110 combined for gradation, p200=24%, Sa=73%, Gr=3%, Moisture=4.1%
5									FS110 Moisture=6.8%
6	SPT	FS110	7 10 15 16			25			
7									
8	SPT	FS111	4 11 50R						FS111 FS111 & FS112 combined for gradation, p200=36%, Sa=57%, Gr=7%, Moisture=4.5%
9									
10							ML		**SANDY SILT** (ML) Light brown, dry FS112 Moisture=9.2% — 10.0
11	SPT	FS112	6 26 27 32			53			
12								BOH 12	12.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-21

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *12.0 feet*
Date: *9/16/2022 - 9/16/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Rain

Surface: Asphalt

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0									5.5" Asphalt — 0.0
0.5	GRAB	FS113					SP-SM		**SAND with Silt and Gravel** (SP-SM) Brown Light brown, dry — 0.5
1									FS113 FS113 & FS114 combined for gradation, p200=6%, Sa=48%, Gr=46%
2									
3	SPT	FS114	8						FS114 Moisture=3.6%
3	SPT	FS115	19				SM		**SILTY SAND** (SM) Light brown Grey, dry to moist FS115 FS115 & FS116 combined — 3.0
4			15						for gradation, p200=27%, Sa=63%, Gr=10%, Moisture=7.7%
5			20						
5			13						FS116 Moisture=8.7%
6	SPT	FS116	11			25			
7			14						
7			24						
8			13						FS117 p200=37%, Sa=58%, Gr=5%, Moisture=7.4%
8	SPT	FS117	21						
9			21						
9			32				SP-SM		**SAND with Silt and Gravel** (SP-SM) Brown Grey, dry — 9.0
10			18						FS118 p200=10%, Sa=56%, Gr=34%, Moisture=2.9%
11	SPT	FS118	47			88			
11			41						
12			37						
12								BOH 12	12.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-22

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *22.0 feet*
Date: *9/16/2022 - 9/16/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Rain

Surface: Grass/Gravel

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SP		**SAND with Gravel** (SP) Light brown Grey, dry to moist — 0.0
1									
2									
3	SPT	FS119	2 5 7 9	X	■		SM		FS119 Moisture=4.8% 3.0 **SILTY SAND** (SM) Light brown, dry to moist
4									
5									FS120 p200=26%, Sa=61%, Gr=13%, Moisture=8.2%
6	SPT	FS120	11 19 16 19	X	■	35			
7									7.0
8	SPT	FS121	12 36 35R	X	■		SP-SM		**SAND with Silt and Gravel** (SP-SM) Light brown Grey, dry to moist FS121 FS121 & FS122 combined for gradation, p200=7%, Sa=47%, Gr=46%, Moisture=3.9%
9									
10									FS122 Moisture=3.6%
11	SPT	FS122	22 40 39 44	X	■	79			
12									
13							ML		13.0 **SILT with Sand** (ML) Light brown, dry
14									
15									FS123 FS123 & FS124 combined for gradation, p200=50%, Sa=42%, Gr=8%, Moisture=13.8%
16	SPT	FS123	6 12 16 15	X	■	28			
17									
18									
19									
20									
21	SPT	FS124	4 5 7 12	X	■	12			
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-23

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location: *See TH Location Map*
Offset:
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *12.0 feet*
Date: *9/17/2022 - 9/17/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Clear

Surface: Asphalt

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0									5.5" Asphalt — 0.0
0.5	GRAB	FS125					SP		**SAND with Gravel** (SP) Brown, dry — 0.5 FS125 FS125 & FS126 combined for gradation, p200=5%, Sa=49%, Gr=46%
1									
2									
3	SPT	FS126	4						FS126 Moisture=12.2%
3									Geotextile Fabric (Stabilization) — 3.0
3.1	SPT	FS127	8 7 11				SC		**CLAYEY SAND** (SC) Light brown, dry to moist — 3.1 FS127 FS127 & FS128 combined for gradation and Atterburg limits, p200=41%, Sa=51%, Gr=8%, Moisture=11.1%, PI=4, LL=16
4									
5									
6	SPT	FS128	4 11 7 9			18			FS128 Moisture=9.3%
7									
7.5									**SANDY SILT** (ML) Light brown, dry to moist FS129 FS129 & FS130 combined for gradation, p200=53%, Sa=37%, Gr=10% — 7.5
8	SPT	FS129	2 4 5 12			9	ML		
9									
10									
11	SPT	FS130	2 7 12 12			19			FS130 Moisture=13.8%
12								BOH 12	Notes: Near dip at MP 91.38 — 12.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/20/22

TEST HOLE LOG

HOLE # TH22-24

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location: *See TH Location Map*
Offset:
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *27.5 feet*
Date: *9/17/2022 - 9/17/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)	4.5	
Time		
Date		
Symbol	▼	

Weather: Clear

Surface: Asphalt

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0									5.5" Asphalt — 0.0
0.5							SP-SM		**SAND with Silt and Gravel** (SP-SM) Light brown Grey, moist to wet
3	SPT	FS131	12 25 19 25			44			FS131 p200=8%, Sa=53%, Gr=39%, Moisture=2.6%
6	SPT	FS132	7 11 18 23			29			FS132 FS132 & FS133 combined for gradation, p200=8%, Sa=74%, Gr=18%, Moisture=9.8%
8	SPT	FS133	3 13 9 8			22			FS133 Moisture=18.7%
11	SPT	FS134	3 4 5 5			9			FS134 p200=5%, Sa=87%, Gr=8%, Moisture=18.2%
14							PT		**Highly Organic Peat** (PT) Brown Red, moist — 14.0
16	SPT	FS135	0 0 1 1			1			FS135 Moisture=266.7%, Org=64.3%
21	SPT	FS136	0 0 2 2			2			FS136 Moisture=399.3%

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/20/22

STATE OF ALASKA DOT&PF
Central Region Materials

TEST HOLE LOG

HOLE # TH22-24

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location: *See TH Location Map*
Offset:
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *27.5 feet*
Date: *9/17/2022 - 9/17/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)	4.5	
Time		
Date		
Symbol	▼	

Weather: Clear

Surface: Asphalt

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
23									**Highly Organic Peat** (PT) Brown Red, moist (cont.)
24									
25									
25.5									
26	SPT	FS137	0 0 2 6	X	■	2	OL/ML		**ORGANIC SILT** (OL/ML) Brown Grey, dry FS137 Moisture=53.1%, Org=10.8%
27									
27.5								BOH 27.5	Notes: Dip at MP 91.83

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/20/22

TEST HOLE LOG

HOLE # TH22-25

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location: *See TH Location Map*
Offset:
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *17.0 feet*
Date: *9/17/2022 - 9/17/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)	4.5	
Time		
Date		
Symbol	▼	

Weather: Clear

Surface: Asphalt

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0									6" Asphalt — 0.0
0.5	GRAB	FS138					GP-GM		**GRAVEL with Silt and Sand** (GP-GM) Brown, dry FS138 p200=6%, Sa=43%, Gr=51%, Moisture=2.3% — 0.5
2							SP-SM		**SAND with Silt** (SP-SM) Light brown Grey, dry to moist — 2.0
3	SPT	FS139	6 18 27 30			45			FS139 p200=10%, Sa=77%, Gr=13%, Moisture=6.3%
5	SPT	FS140	6 7 12 12			19			FS140 p200=8%, Sa=87%, Gr=5%, Moisture=10.3%
7							OL/ML		**ORGANIC SILT** (OL/ML) Brown Red, moist — 7.0
8	SPT	FS141	4 3 3 4						FS141 Moisture=8.2%, Org=7.5%
9							ML		**Slightly Organic SILT** (ML) Light brown, dry to moist — 9.0
11	SPT	FS142	0 1 3 7			4			FS142 Moisture=20.0%, Org=2.4%
15	SPT	FS143	4 11 14 17						
16							SM		**SILTY SAND** (SM) Light brown, moist — 16.0
17								BOH 17	17.0

Notes:
Near dip at MP 91.83

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/20/22

TEST HOLE LOG

HOLE # TH22-26

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *22.0 feet*
Date: *9/17/2022 - 9/17/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Clear

Surface: Grass

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							ML		**SANDY SILT with Gravel** (ML) Light brown, dry — 0.0
1									
2									
3	SPT	FS144	4 7 11 15	X	■	18			FS144 FS144 & FS145 combined for gradation, p200=45%, Sa=34%, Gr=21%, Moisture=10.9%
4									
5			7		■				FS145 Moisture=8.3%
6	SPT	FS145	14 11 16	X		25			
7							SM		**SILTY SAND with Gravel** (SM) Light brown, dry — 7.0
8			19		■				FS146 p200=17%, Sa=62%, Gr=21%, Moisture=6.6%
9	SPT	FS146	25 25 22	X		50			
10									No Recovery
11	SPT		3 9 15 18	X		24			
12									
13							SP-SM		**SAND with Silt and Gravel** (SP-SM) Light brown Grey, dry to moist — 13.0
14									
15			6		■				FS147 FS147 & FS148 combined for gradation, p200=9%, Sa=70%, Gr=21%, Moisture=5.8%
16	SPT	FS147	10 18 23	X		28			
17									
18									
19							SP		**SAND with Gravel** (SP) Light brown Grey, dry to moist — 19.0
20			10		■				
21	SPT	FS148	23 37 15R	X		60			
22								BOH 22	— 22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-27

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *12.0 feet*
Date: *9/19/2022 - 9/19/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Overcast

Surface: Asphalt

Depth (Feet)	Sample Data: Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0									6.5" Asphalt — 0.0
0.5	GRAB	FS149					GP-GM		**GRAVEL with Silt and Sand** (GP-GM) Brown, dry FS149 FS149 & FS150 combined for gradation, p200=9%, Sa=44%, Gr=47% — 0.5
1									
2									
3	SPT	FS150	8 10 10 12			20			FS150 Moisture=2.9%
4									
5							ML		**SANDY SILT** (ML) Light brown, dry FS151 FS151 & FS152 combined for gradation, p200=47%, Sa=43%, Gr=10%, Moisture=11.1% — 5.0
6	SPT	FS151	8 10 6 7			16			
7									
8	SPT		5 15 16 24			31			No Recovery
9									
10									
11	SPT	FS152	8 10 7 14			17			FS152 Moisture=10.3%
12								BOH 12	12.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-28

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *12.0 feet*
Date: *9/19/2022 - 9/19/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Overcast

Surface: Asphalt

Depth (Feet)	Sample Data: Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0									5.5" Asphalt — 0.0
0.5	GRAB	FS153					GP-GM		**GRAVEL with Silt and Sand** (GP-GM) Brown Light brown, dry — 0.5
1									FS153 FS153 & FS154 combined for gradation, p200=6%, Sa=40%, Gr=54%
2									
3	SPT	FS154	11						FS154 Moisture=2.8%
3	SPT	FS155	10				ML		**SANDY SILT** (ML) Light brown, dry FS155 Moisture=21.7% — 3.0
4			6						
5			6						
6	SPT	FS156	4 5 6 16			11			FS156 FS155, FS156 & FS157 combined for gradation, p200=67%, Sa=29%, Gr=4%
7									
8	SPT	FS157	5 6 11						FS157 Moisture=12.5%
9			15				SP-SM		**SAND with Silt** (SP-SM) Light brown, dry — 9.0
10									FS158 p200=9%, Sa=90%, Gr=1%, Moisture=5.1%
11	SPT	FS158	5 7 7 9			14			
12								BOH 12	12.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-29

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *12.0 feet*
Date: *9/19/2022 - 9/19/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Light Rain

Surface: Grass/Gravel

Depth (Feet)	Sample Data: Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SP-SM		**SAND with Silt and Gravel** (SP-SM) Light brown Grey, dry to moist — 0.0
3	SPT	FS159	6, 13, 14, 10			27			FS159 p200=7%, Sa=48%, Gr=45%, Moisture=4.1%
5							ML		**SANDY SILT** (ML) Light brown, dry to moist FS160 p200=50%, Sa=40%, Gr=10%, Moisture=20.0% — 5.0
6	SPT	FS160	6, 8, 9, 4			17			
7.5							SM		**SILTY SAND** (SM) Light brown, dry to moist FS161 FS161 & FS162 combined for gradation, p200=41%, Sa=51%, Gr=8%, Moisture=10.0% — 7.5
8	SPT	FS161	2, 5, 10, 9			15			
10	SPT	FS162	5, 11, 8, 20			19			FS162 Moisture=13.1%
12								BOH 12	12.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-30

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location: *See TH Location Map*
Offset:
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *12.0 feet*
Date: *9/19/2022 - 9/19/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Light Rain

Surface: Asphalt

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0									6" Asphalt — 0.0
0.5	GRAB	FS163					GP-GM		**GRAVEL with Silt and Sand** (GP-GM) Brown, dry FS163 p200=5%, Sa=44%, Gr=51%, Moisture=2.2% — 0.5
2							SM		**SILTY SAND** (SM) Light brown Grey, dry — 2.0
3	SPT	FS164	6						FS164 p200=14%, Sa=82%, Gr=4%, Moisture=11.0%
3	SPT	FS165	16 28 34				SM		**SILTY SAND with Gravel** (SM) Brown, dry FS165 p200=13%, Sa=55%, Gr=32%, Moisture=4.6% — 3.0
5							ML		**SANDY SILT** (ML) Brown Light brown, dry to moist FS166 FS166 & FS167 combined for gradation, p200=62%, Sa=25%, Gr=13% — 5.0
6	SPT	FS166	10 16 16 10			32			
8	SPT	FS167	4 1 2 6						FS167 Moisture=33.2%
8.5							SP-SM		**SAND with Silt and Gravel** (SP-SM) Light brown, dry to moist — 8.5
11	SPT	FS168	5 11 14 39			25			FS168 p200=8%, Sa=74%, Gr=18%, Moisture=5.1%
12								BOH 12	— 12.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/20/22

TEST HOLE LOG

HOLE # TH22-31

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *22.0 feet*
Date: *9/20/2022 - 9/20/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Light Rain

Surface: Gravel/Grass

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SP-SM		**SAND with Silt and Gravel** (SP-SM) Light brown Grey, dry to moist 0.0
3	SPT	FS169	5 11 17 19			28			FS169 FS169 & FS170 combined for gradation, p200=5%, Sa=77%, Gr=18%, Moisture=3.4%
5							SP		**SAND** (SP) Light brown Grey, dry to moist FS170 Moisture=4.1% 5.0
6	SPT	FS170	5 22 16 16			38			
8	SPT	FS171	5 8 11 12			19			FS171 FS171 & FS172 combined for gradation, p200=3%, Sa=94%, Gr=3%, Moisture=4.8%
11	SPT	FS172	4 6 11 14			17			FS172 Moisture=5.4%
16	SPT	FS173	6 11 12 16			23			FS173 p200=3%, Sa=96%, Gr=1%, Moisture=14.3%
20							SM		**SILTY SAND** (SM) Light brown Grey, dry to moist FS174 p200=16%, Sa=84%, Gr=0%, Moisture=11.2% 20.0
21	SPT	FS174	5 12 15 18			27			
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-32

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location: *See TH Location Map*
Offset:
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *22.0 feet*
Date: *9/20/2022 - 9/20/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)	14	
Time		
Date		
Symbol	▼	

Weather: Light Rain

Surface: Gravel/Grass

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SP		**SAND with Gravel** (SP) Light brown Grey, dry to moist 0.0
3	SPT	FS175	5, 19, 10, 15			29			FS175 p200=0%, Sa=58%, Gr=42%, Moisture=3.4%
5									5.0
5			2				SP		Geotextile Fabric (Stabilization) 5.1
6	SPT	FS176	8, 12, 13						**SAND with Silt** (SP) Light brown Grey, dry to moist FS176 p200=8%, Sa=85%, Gr=7%, Moisture=6.1%
7							GP-GM		7.0
8	SPT	FS177	11, 50R						**GRAVEL with Silt and Sand** (GP-GM) Light brown Grey, dry to moist FS177 FS177 & FS178 combined for gradation, p200=8%, Sa=40%, Gr=52%, Moisture=4.0%
11	SPT	FS178	41, 33, 41, 46			74			
15							SP-SM		15.0 **SAND with Silt and Gravel** (SP-SM) Light brown Grey, dry to moist FS179 FS179 & FS180 combined for gradation, p200=7%, Sa=49%, Gr=44%, Moisture=4.1%
16	SPT	FS179	12, 17, 23, 23			40			
21	SPT	FS180	8, 24, 28, 25			52			
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/8/22

TEST HOLE LOG

HOLE # TH22-33

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location: *See TH Location Map*
Offset:
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *22.0 feet*
Date: *9/20/2022 - 9/20/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Overcast

Surface: Gravel/Grass

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SM		**SILTY SAND with Gravel** (SM) Brown, dry to moist — 0.0
3	SPT	FS181	8 16 14 11						FS181 p200=22%, Sa=50%, Gr=28%, Moisture=7.3%
4							SM		**SILTY SAND** (SM) Light brown Grey, dry to moist — 4.0
5									FS182 Moisture=8.0%
6	SPT	FS182	4 9 9 12				ML		**SILT with Sand** (ML) Light brown, dry to moist — 5.5
8	SPT	FS183	1 3 7 5			10			FS183 FS183 & FS184 combined for gradation, p200=82%, Sa=17%, Gr=1%, Moisture=19.8%
10	SPT	FS184	3 4 5 5			9			FS184 Moisture=21.8%
14							SP-SM		**SAND with Silt and Gravel** (SP-SM) Light brown Grey, dry — 14.0
15	SPT	FS185	27 35R						FS185 p200=9%, Sa=48%, Gr=43%
19							CL		**CLAY** (CL) Light brown, dry to moist — 19.0
20	SPT	FS186	4 13 19 32			32			FS186 Moisture=11.2%, PI=7, LL=22
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/8/22

TEST HOLE LOG

HOLE # TH22-34

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *22.0 feet*
Date: *9/20/2022 - 9/20/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Overcast

Surface: Gravel/Grass

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SP-SM		**SAND with Silt** (SP-SM) Light brown Grey, dry to moist 0.0
3	SPT	FS187	5 12 18 15			30			FS187 FS187 & FS188 combined for gradation, p200=6%, Sa=84%, Gr=10%, Moisture=6.1%
5									
6	SPT	FS188	2 6 9 12			15			FS188 Moisture=14.2%
8	SPT	FS189	3 6 7 8			13			FS189 FS189 & FS190 combined for gradation, p200=6%, Sa=90%, Gr=4%, Moisture=3.7%
10	SPT	FS190	3 7 8 10			15			FS190 Moisture=5.7%
15							SP		**SAND** (SP) Light brown Grey, dry to moist FS191 FS191 & FS192 combined for gradation, p200=3%, Sa=92%, Gr=5% 15.0
16	SPT	FS191	4 8 11 12			19			
20	SPT	FS192	5 12 16 23			28			
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-35

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location: *See TH Location Map*
Offset:
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *22.0 feet*
Date: *9/20/2022 - 9/20/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Overcast

Surface: Grass/Gravel

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SM		**SILTY SAND** (SM) Light brown, dry to moist 0.0
3	SPT		4 9 9 11			18			No Recovery
6	SPT	FS193	5 10 11 21			21			FS193 FS193 & FS194 combined for gradation, p200=48%, Sa=45%, Gr=7%, Moisture=11.8%
8	SPT	FS194	9 23 21 20			44			
11	SPT	FS195	10 20 22 28			42			FS195 p200=13%, Sa=86%, Gr=1%, Moisture=6.6%
16	SPT	FS196	7 15 17 16			32			FS196 FS196 & FS197 combined for gradation, p200=30%, Sa=70%, Gr=0%, Moisture=9.0%
21	SPT	FS197	5 9 10 15			19			
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/20/22

TEST HOLE LOG

HOLE # TH22-36

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *22.0 feet*
Date: *9/21/2022 - 9/21/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)	2	
Time		
Date		
Symbol	▼	

Weather: Partly Cloudy

Surface: Grass/Gravel

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SP-SM		**SAND with Silt and Gravel** (SP-SM) Light brown Grey, moist 0.0
3	SPT	FS198	5 7 7 5						FS198 p200=6%, Sa=75%, Gr=19%, Moisture=15.6%
4							ML		**SILT** (ML) Light brown, dry to moist 4.0
6	SPT	FS199	2 3 5 5			8			FS199 FS199 & FS200 combined for gradation, p200=91%, Sa=9%, Gr=0%
8	SPT	FS200	1 2 11 33						FS200 Moisture=35.0%
9							GP-GM		**GRAVEL with Silt and Sand** (GP-GM) Light brown Grey, dry to moist, ~6" piece of wood recovered at 10' 9.0
11	SPT	FS201	0 13 33 31			46			FS201 p200=10%, Sa=42%, Gr=48%, Moisture=6.0%
16	SPT		12 20 21 22			41			No Recovery
20							SP-SM		**SAND with Silt and Gravel** (SP-SM) Light brown Grey, dry to moist FS202 p200=6%, Sa=49%, Gr=45% 20.0
21	SPT	FS202	7 27 36 25			63			
22							BOH 22		22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-37

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *22.0 feet*
Date: *9/21/2022 - 9/21/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Partly Cloudy

Surface: Grass/Gravel

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SP		**SAND with Gravel** (SP) Brown, dry to moist — 0.0
2.5	SPT	FS203	3, 3, 4, 4			7	CL		**CLAY** (CL) Light brown, dry to moist FS203 FS203 & FS204 combined for gradation, p200=93%, Sa=7%, Gr=0%, Moisture=24.1% — 2.5
5	SPT	FS204	2, 2, 3, 4			5			
7.5	SPT	FS205	2, 4, 5, 8			9			FS205 FS205 & FS206 combined for gradation & Atterberg, p200=90%, Sa=9%, Gr=1%, Moisture=34.5%, PI=23, LL=45
10	SPT	FS206	1						
10.5	SPT	FS207	13, 14, 15				SP-SM		**SAND with Silt and Gravel** (SP-SM) Light brown Grey, dry to moist FS207 Moisture=7.5% — 10.5
15	SPT	FS208	9, 17, 22, 16			39			FS208 FS208 & FS209 combined for gradation, p200=6%, Sa=67%, Gr=27%, Moisture=4.7%
19							SP		**SAND with Gravel** (SP) Light brown Grey, dry to moist — 19.0
20	SPT	FS209	8, 18, 14, 18			32			FS209 Moisture=3.5%
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-38

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *22.0 feet*
Date: *9/21/2022 - 9/21/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Overcast

Surface: Gravel/Grass

Depth (Feet)	Sample Data: Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							GP-GM		**GRAVEL with Silt and Sand** (GP-GM) Light brown Grey, dry to moist 0.0
3	SPT	FS210	50 59 23 18			82			FS210 p200=9%, Sa=45%, Gr=46%, Moisture=2.7%
5	SPT	FS211	11 24 28 48			52			FS211 p200=6%, Sa=28%, Gr=66%, Moisture=1.8%
7.5							SP-SM		**SAND with Silt and Gravel** (SP-SM) Light brown Grey, dry to moist FS212 p200=6%, Sa=47%, Gr=47%, Moisture=2.5%
8	SPT	FS212	8 18 29 28			47			
10									10.0
10	SPT	FS213	13 28 41 44			69	GP-GM		**GRAVEL with Silt and Sand** (GP-GM) Light brown Grey, dry to moist FS213 p200=8%, Sa=41%, Gr=51%, Moisture=1.6%
15									15.0
15	SPT	FS214	9 32 35 28			67	SP-SM		**SAND with Silt and Gravel** (SP-SM) Light brown Grey, dry to moist FS214 p200=8%, Sa=54%, Gr=38%
19									19.0
19	SPT	FS215	12 13 12 16			25	SM		**SILTY SAND** (SM) Light brown Grey, dry to moist FS215 p200=22%, Sa=78%, Gr=0%
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-39

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Kyle - GeoTek AK*

Total Depth: *22.0 feet*
Date: *9/21/2022 - 9/21/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Partly Cloudy

Surface: Grass/Gravel

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							ML		**SANDY SILT** (ML) Light brown, dry to moist, Geotextile Fabric (Stabilization) seen in spin-up but not in samples — 0.0
1									
2									
3	SPT	FS216	3 6 7 4			13			FS216 p200=55%, Sa=43%, Gr=2%, Moisture=16.2%
4									
5									
6	SPT	FS217	2 7 6 7			13			FS217 FS217 & FS218 combined for gradation, p200=54%, Sa=41%, Gr=5%
7									
8	SPT	FS218	3 9 12 17			21			FS218 Moisture=11.1%
9									
10									
11	SPT	FS219	9 14 17 17			31			FS219 p200=50%, Sa=39%, Gr=11%, Moisture=9.6%
12									
13									
14									
15									
16	SPT	FS220	9 24 27 28			51			FS220 p200=57%, Sa=33%, Gr=10%
17									
18							SM		**SILTY SAND** (SM) Light brown, dry to moist — 18.0
19									
20									
21	SPT	FS221	11 15 22 27			37			
22								BOH 22	— 22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-40

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *Woody & John - GeoTek AK*

Total Depth: *22.0 feet*
Date: *9/26/2022 - 9/26/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Light Rain

Surface: Grass

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SM		**SILTY SAND** (SM) Light brown Grey, dry to moist — 0.0
3	SPT	FS222	6 10 15 19						FS222 p200=25%, Sa=66%, Gr=9%, Moisture=10.3%
4							SP-SM		**SAND with Silt and Gravel** (SP-SM) Light brown Grey, dry to moist — 4.0
5	SPT	FS223	12 31 35 50R			66			FS223 p200=11%, Sa=49%, Gr=40%, Moisture=2.6%
8	SPT	FS224	20 16 22 23			38			FS224 FS224 & FS225 combined for gradation, p200=7%, Sa=60%, Gr=33%, Moisture=3.4%
10	SPT	FS225	14 17 16 9			33			FS225 Moisture=3.1%
15	SPT	FS226	11 19 20 19			39			FS226 FS226 & FS227 combined for gradation, p200=6%, Sa=61%, Gr=33%
20	SPT	FS227	16 30 33 45			63			
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-41

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location: *See TH Location Map*
Offset:
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *Woody & John - GeoTek AK*

Total Depth: *22.0 feet*
Date: *9/27/2022 - 9/27/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Clear

Surface: Grass

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SM		**Slightly Organic SILTY SAND** (SM) Light brown Grey, dry 0.0
1									
2									
3	SPT	FS228	4 5 4 5			9			FS228 FS228 & FS229 combined for gradation, p200=47%, Sa=45%, Gr=8%, Moisture=23.1%, Org=3.5%
4									
5							SM		**Organic SILTY SAND** (SM) Light brown Grey, dry FS229 Moisture=35.0%, Org=6.5% 5.0
6	SPT	FS229	2 4 4 4			8			
7							SM		**SILTY SAND** (SM) Light brown, dry to moist 7.0
8	SPT	FS230	4 3 4 4			7			FS230 FS230 & FS231 combined for gradation, p200=44%, Sa=43%, Gr=13%, Moisture=13.1%
9									
10									FS231 Moisture=10.1%
11	SPT	FS231	11 12 13 17			25			
12									
13									
14									
15									No Recovery
16	SPT		8 15 11 12			26			
17									
18									
19									
20									FS232 Moisture=14.9%, Org=1.1%
21	SPT	FS232	16 10 13 16			23			
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

Sheet Number 1 of 1

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/20/22

TEST HOLE LOG

HOLE # TH22-42

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *Woody & John - GeoTek AK*

Total Depth: *22.0 feet*
Date: *9/27/2022 - 9/27/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Clear

Surface: Gravel

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SP-SM		**SAND with Silt and Gravel** (SP-SM) Light brown, dry to moist — 0.0
1									
2									
3	SPT	FS233	5 6 9 6						FS233 p200=8%, Sa=53%, Gr=39%, Moisture=3.6%
4							SM		**SILTY SAND with Gravel** (SM) Light brown, dry — 4.0
5									
6	SPT	FS234	6 11 10 7			21			FS234 FS234 & FS235 combined for gradation, p200=38%, Sa=38%, Gr=24%
7									
8	SPT	FS235	7 8 11 12			19			FS235 Moisture=11.2%
9									
10							ML		**SANDY SILT** (ML) Light brown, dry FS236 p200=59%, Sa=39%, Gr=2% — 10.0
11	SPT	FS236	11 12 19 21			31			
12									
13									
14									
15	SPT	FS237	9 16 18 20			34			FS237 Moisture=6.2%
16									
17									
18									
19									
20	SPT	FS238	10 10 10 10			20			
21									
22								BOH 22	— 22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-43

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *Woody & John - GeoTek AK*

Total Depth: *22.0 feet*
Date: *9/27/2022 - 9/27/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Partly Cloudy

Surface: Gravel

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SP		**SAND with Gravel** (SP) Light brown Grey, dry to moist — 0.0
1									
2									
3	SPT	FS239	11, 15, 13, 16				SM		FS239 Moisture=3.1% — 3.0 **SILTY SAND with Gravel** (SM) Light brown, dry
4									
5									FS240 p200=35%, Sa=46%, Gr=19%, Moisture=9.1%
6	SPT	FS240	13, 10, 12, 13			22			
7							SM		7.0 **SILTY SAND** (SM) Light brown Grey, dry to moist
8	SPT	FS241	8, 17, 18, 13			35			FS241 FS241 & FS242 combined for gradation, p200=19%, Sa=76%, Gr=5%, Moisture=10.8%
9									
10									FS242 Moisture=12.5%
11	SPT	FS242	7, 8, 9, 10			17			
12									
13									
14							SM		14.0 **SILTY SAND with Gravel** (SM) Light brown Grey, dry
15									
16	SPT	FS243	10, 25, 24, 23			49			FS243 FS243 & FS244 combined for gradation, p200=31%, Sa=46%, Gr=23%, Moisture=9.5%
17									
18									
19									
20									
21	SPT	FS244	11, 11, 13, 17			24			
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-44

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *Woody & John - GeoTek AK*

Total Depth: *22.0 feet*
Date: *9/27/2022 - 9/27/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Partly Cloudy

Surface: Gravel

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SP		**SAND with Gravel** (SP) Light brown, dry — 0.0
2.5	SPT	FS245	8, 10, 8, 8				ML		**SANDY SILT** (ML) Light brown, dry FS245 Moisture=12.1% — 2.5
4							SM		**SILTY SAND** (SM) Light brown, dry — 4.0
6	SPT	FS246	7, 8, 6, 6			14			FS246 FS246 & FS247 combined for gradation, p200=20%, Sa=80%, Gr=0%, Moisture=11.3%
8	SPT	FS247	5, 6, 7, 10			13			FS247 Moisture=8.7%
11	SPT	FS248	8, 12, 12, 13			24			FS248 FS248 & FS249 combined for gradation, p200=21%, Sa=79%, Gr=0%
16	SPT	FS249	11, 16, 17, 18			33			FS249 Moisture=6.4%
19							ML		**SANDY SILT** (ML) Light brown, dry — 19.0
21	SPT	FS250	12, 24, 24, 25			48			FS250 Moisture=8.8%
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-45

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *Woody & John - GeoTek AK*

Total Depth: *22.0 feet*
Date: *9/28/2022 - 9/28/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Overcast

Surface: Gravel

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SP-SM		**SAND with Silt** (SP-SM) Light brown Grey, dry to moist — 0.0
1									
2									
3	SPT	FS251	2 3 2 4			5			FS251 p200=13%, Sa=83%, Gr=4%
4									
5							SM		**SILTY SAND** (SM) Brown, dry FS252 p200=36%, Sa=58%, Gr=6%, Moisture=11.1% — 5.0
6	SPT	FS252	4 8 9 8			17			
7							SM		**SILTY SAND** (SM) Brown, dry to moist — 7.0
8			6						FS253 FS253 & FS254 combined for gradation, p200=23%, Sa=67%, Gr=10%
9	SPT	FS253	5 5 4			10			
10									
11	SPT	FS254	3 6 3 6			9			FS254 Moisture=14.2%
12									
13							ML		**Slightly Organic SILT with Sand** (ML) Brown, dry to moist — 13.0
14									
15									FS255 Moisture=26.2%, Org=4.0%
16	SPT	FS255	8 8 5 5			13			
17									
18									
19									
20			9						FS256 Moisture=11.6%
21	SPT	FS256	9 12 15			21			
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-46

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location: *See TH Location Map*
Offset:
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *Woody & John - GeoTek AK*

Total Depth: *22.0 feet*
Date: *9/28/2022 - 9/28/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Overcast

Surface: Gravel

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SM		**SILTY SAND with Gravel** (SM) Brown Grey, dry to moist 0.0
3	SPT	FS257	5 11 13 12			24			FS257 p200=16%, Sa=62%, Gr=22%, Moisture=5.2%
5	SPT	FS258	5 12 34 39				SP-SM		FS258 p200=20%, Sa=61%, Gr=19%, Moisture=8.5%
6									**SAND with Silt and Gravel** (SP-SM) Light brown Grey, dry to moist 6.0
8	SPT	FS259	11 12 21 16			33			FS259 p200=10%, Sa=70%, Gr=20%, Moisture=5.1%
10							SM		**SILTY SAND with Gravel** (SM) Light brown Grey, dry to moist FS260 FS260 & FS261 combined for gradation, p200=24%, Sa=49%, Gr=27% 10.0
11	SPT	FS260	11 14 11 11			25			
15	SPT	FS261	8 10 8 9			18			FS261 Moisture=12.3%
20	SPT		13 15 12 12			27			No Recovery
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/8/22

TEST HOLE LOG

HOLE # TH22-47

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location: *See TH Location Map*
Offset:
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *Woody & John - GeoTek AK*

Total Depth: *21.0 feet*
Date: *9/28/2022 - 9/28/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Overcast

Surface: Gravel

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SP-SM		**SAND with Silt and Gravel** (SP-SM) Brown Grey, dry to moist — 0.0
3	SPT	FS262	15, 22, 19, 14						FS262 p200=10%, Sa=59%, Gr=31%, Moisture=3.8%
4							SM		**SILTY SAND with Gravel** (SM) Grey Brown, dry to moist — 4.0
6	SPT	FS263	15, 23, 14, 22			37			FS263 p200=16%, Sa=49%, Gr=35%, Moisture=14.8%
7							SP		**SAND with Gravel** (SP) Light brown Grey, dry to moist — 7.0
8	SPT	FS264	11, 7, 12, 10			19			FS264 FS264 & FS265 combined for gradation, p200=4%, Sa=70%, Gr=26%
10	SPT	FS265	6						FS265 Moisture=3.2%
11	SPT	FS266	6, 8, 9			14			FS266 Moisture=11.6%
13							GP-GM		**GRAVEL with Silt and Sand** (GP-GM) Grey Light brown, dry to moist — 13.0
16	SPT	FS267	13, 35, 31, 21			66			FS267 p200=7%, Sa=38%, Gr=55%, Moisture=2.7%
20	SPT		13, 50R						No Recovery
21								BOH 21	21.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/8/22

TEST HOLE LOG

HOLE # TH22-48

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location: *See TH Location Map*
Offset:
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *Woody & John - GeoTek AK*

Total Depth: *22.0 feet*
Date: *9/28/2022 - 9/28/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Partly Cloudy

Surface: Gravel

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SP-SM		**SAND with Silt and Gravel** (SP-SM) Grey Light brown, dry to moist 0.0
3	SPT	FS268	8 12 18 18			30			FS268 p200=6%, Sa=67%, Gr=27%, Moisture=3.1%
5							SP		5.0
6	SPT	FS269	7 13 16 14			29			**SAND** (SP) Grey Light brown, dry to moist FS269 FS269, FS270 & FS271 combined for gradation, p200=2%, Sa=87%, Gr=11%, Moisture=3.4%
8	SPT	FS270	19 15 11 14			26			
11	SPT	FS271	7 9 12 14			21			
15									No Recovery
16	SPT		7 10 13 24			23			
20									FS272 Moisture=3.5%
21	SPT	FS272	10 11 12 15			23			
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

Sheet Number 1 of 1

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/20/22

TEST HOLE LOG

HOLE # TH22-49

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *Woody & John - GeoTek AK*

Total Depth: *22.0 feet*
Date: *9/29/2022 - 9/29/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Rain

Surface: Gravel

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SP		**SAND** (SP) Grey Light brown, dry to moist 0.0
3	SPT	FS273	9 6 7 8			13			FS273 FS273, FS274 & FS275 combined for gradation, p200=3%, Sa=97%, Gr=0%, Moisture=4.2%
6	SPT	FS274	5 7 9 10			16			
8	SPT	FS275	6 8 8 9			16			FS275 Moisture=3.5%
11	SPT	FS276	5 10 11 11			21			FS276 FS276 & FS277 combined for gradation, p200=4%, Sa=91%, Gr=5%
16	SPT	FS277	7 11 12 11			23			FS277 Moisture=2.0%
21	SPT	FS278	6 10 13 16			23			
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-50

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *Woody & John - GeoTek AK*

Total Depth: *20.5 feet*
Date: *9/29/2022 - 9/29/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Partly Cloudy

Surface: Gravel

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SM		**SILTY SAND with Gravel** (SM) Light brown, dry to moist 0.0
3	SPT	FS279	4 7 8 8			15			FS279 FS279 & FS280 combined for gradation, p200=28%, Sa=53%, Gr=19%, Moisture=6.8%
6	SPT	FS280	5 4 10 11			14			FS280 Moisture=16.2%
7.5									
8	SPT	FS281	20 28 36 23			64	GP-GM		**GRAVEL with Silt and Sand** (GP-GM) Grey Light brown, dry to moist FS281 p200=11%, Sa=32%, Gr=57%, Moisture=4.5%
11	SPT		28 21 20 15			41			No Recovery
15							SP-SM		**SAND with Silt and Gravel** (SP-SM) Grey Light brown, dry to moist FS282 p200=7%, Sa=47%, Gr=46%, Moisture=2.5% 15.0
16	SPT	FS282	21 20 19 23			39			
20	SPT		50R					BOH 20.5	No Recovery 20.5

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-51

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *Woody & John - GeoTek AK*

Total Depth: *22.0 feet*
Date: *9/29/2022 - 9/29/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Partly Cloudy

Surface: Grass

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SP-SM		**SAND with Silt** (SP-SM) Grey Light brown, dry to moist 0.0
3	SPT	FS283	6 8 14 8			22	SM		**SILTY SAND with Gravel** (SM) Light brown, dry to moist FS283 FS283 & FS284 combined for gradation, p200=42%, Sa=33%, Gr=25%, Moisture=9.3% 2.5
5	SPT	FS284	4 5 7 9			12			FS284 Moisture=16.0%
7									7.5
8	SPT	FS285	4 2 4 4			6	ML		**SANDY SILT** (ML) Light brown, dry to moist FS285 p200=79%, Sa=20%, Gr=1%
10	SPT		2 7 7 7			14			No Recovery
15	SPT	FS286	25 14 13 14			27			FS286 FS286 & FS287 combined for gradation, p200=63%, Sa=33%, Gr=4%, Moisture=11.5%
20	SPT	FS287	5 8 11 13			19			
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-52

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location: *See TH Location Map*
Offset:
Elevation:

Equipment_Type: *CME 75 Truck*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *Woody & John - GeoTek AK*

Total Depth: *22.0 feet*
Date: *9/29/2022 - 9/29/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Rain

Surface: Grass

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SP-SM		**SAND with Silt and Gravel** (SP-SM) dry to moist — 0.0
1									
2							OL/ML		**ORGANIC SILT** (OL/ML) dry to moist — 1.5
3	SPT	FS288	3 4 5 7			9	ML		**Slightly Organic SANDY SILT** (ML) Light brown, dry to moist FS288 FS288 & FS289 combined for gradation, p200=63%, Sa=24%, Gr=13%, Moisture=16.1%, Org=2.0% — 2.5
4									
5	SPT	FS289	4 7 7 8			14			FS289 Moisture=13.3%, Org=2.1%
6									
7									
8	SPT		12 8 8 8			16			No Recovery
9									
10									
11	SPT		6 12 13 14			25			No Recovery
12									
13									
14							ML		**SILT with Sand** (ML) Light brown, dry to moist — 14.0
15									
16	SPT	FS290	4 4 5 8			9			FS290 p200=82%, Sa=15%, Gr=3%
17									
18									
19							SM		**SILTY SAND** (SM) Light brown, dry to moist — 19.0
20									
21	SPT	FS291	9 11 13 15			24			FS291 p200=39%, Sa=61%, Gr=0%
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/20/22

TEST HOLE LOG

HOLE # TH22-53

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location: *See TH Location Map*
Offset:
Elevation:

Equipment_Type: *Geoprobe 8040DT*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Ryder - GeoTek AK*

Total Depth: *21.5 feet*
Date: *9/30/2022 - 9/30/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)	6.5	
Time		
Date		
Symbol	▼	

Weather: Partly Cloudy

Surface: Grass

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SM		**SILTY SAND with Gravel** (SM) Light brown Grey, dry to moist — 0.0
3	SPT	FS292	7, 11, 12, 10						FS292 p200=16%, Sa=58%, Gr=26%, Moisture=6.3%
4							SM		**Slightly Organic SILTY SAND** (SM) Brown Light brown, dry to moist — 4.0
6	SPT	FS293	5, 4, 5, 5			9			FS293 p200=39%, Sa=54%, Gr=7%, Moisture=20.1%, Org=3.0%
7							OL/ML		**Organic SILT** (OL/ML) Light brown Dark brown, dry — 7.0
8	SPT	FS294	2, 4, 8, 12			12			FS294 Moisture=31.8%, Org=11.3%
11	SPT	FS295	5, 8, 6, 10			14			FS295 p200=71%, Sa=29%, Gr=0%, Moisture=14.9%
13							SP-SM		**SAND with Silt** (SP-SM) Grey Light brown, dry — 13.0
16	SPT	FS296	13, 16, 19, 24			35			FS296 p200=8%, Sa=78%, Gr=14%
20							GP-GM		**GRAVEL with Silt and Sand** (GP-GM) Grey Light brown, dry FS297 p200=9%, Sa=45%, Gr=46% — 20.0
21	SPT	FS297	19, 42, 50R						21.5
								BOH 21.5	

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/8/22

TEST HOLE LOG

HOLE # TH22-54

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location: *See TH Location Map*
Offset:
Elevation:

Equipment_Type: *Geoprobe 8040DT*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Ryder - GeoTek AK*

Total Depth: *22.0 feet*
Date: *9/30/2022 - 9/30/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Partly Cloudy

Surface: Gravel/Grass

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SP-SM		**SAND with Silt** (SP-SM) Grey Brown, moist 0.0
3	SPT	FS298	4 7 8 7			15			FS298 FS298 & FS299 combined for gradation, p200=6%, Sa=89%, Gr=5%, Moisture=16.6%
5			3						FS299 Moisture=17.4%
6	SPT	FS299 FS300	3 6 10				ML		6.0 Geotextile Fabric 6.1 **SANDY SILT** (ML) Light brown Grey, dry to moist, FS300 Moisture=15.2%
8	SPT	FS301	4 6 10 14			16			FS301 FS301 & FS302 combined for gradation, p200=60%, Sa=36%, Gr=4%
10									FS302 Moisture=17.2%
11	SPT	FS302	3 6 11 11			17			
15							ML		15.0 **SILT with Sand** (ML) Light brown Grey, dry to moist FS303 FS303 & FS304 combined for gradation, p200=75%, Sa=24%, Gr=1%
16	SPT	FS303	5 7 10 13			17			
20									FS304 Moisture=16.1%
21	SPT	FS304	4 8 9 12			17			
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/13/22

TEST HOLE LOG

HOLE # TH22-55

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *Geoprobe 8040DT*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Ryder - GeoTek AK*

Total Depth: *22.0 feet*
Date: *10/1/2022 - 10/1/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Clear

Surface: Grass

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SP		**SAND with Gravel** (SP) Light brown Grey, dry to moist 0.0
3	SPT	FS305	8 9 11 9				SM		FS305 Moisture=7.1% 3.0 **SILTY SAND with Gravel** (SM) Light brown, dry to moist
6	SPT	FS306	7 9 15 25			24			FS306 FS306 & FS307 combined for gradation, p200=30%, Sa=43%, Gr=27%, Moisture=8.9%
9	SPT	FS307	11 11 25 38			36			
11	SPT	FS308	26 34 26 19			60			FS308 p200=21%, Sa=55%, Gr=24%, Moisture=2.4%
16	SPT	FS309	8 15 13 29			28			FS309 p200=30%, Sa=51%, Gr=19%
21	SPT	FS310	9 19 17 20			36	SM		**SILTY SAND** (SM) Light brown, dry to moist FS310 p200=20%, Sa=68%, Gr=12%, Moisture=7.6% 20.0
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-56

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *Geoprobe 8040DT*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Ryder - GeoTek AK*

Total Depth: *22.0 feet*
Date: *10/1/2022 - 10/1/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Clear

Surface: Grass

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SM		**SILTY SAND** (SM) 0.0
1									
2									
3	SPT	FS311	2 2 2 5			4			FS311 p200=23%, Sa=73%, Gr=4%, Moisture=6.1%
4									
5							SM		**SILTY SAND with Gravel** (SM) FS312 p200=26%, Sa=54%, Gr=20%, Moisture=6.0% 5.0
6	SPT	FS312	7 14 12 12			26			
7									7.5
8	SPT	FS313	7 12 12 13			24	ML		**SANDY SILT** (ML) FS313 p200=53%, Sa=42%, Gr=5%
9									
10							SM		**SILTY SAND** (SM) FS314 p200=22%, Sa=78%, Gr=0%, Moisture=8.6% 10.0
11	SPT	FS314	5 12 13 14						
12							ML		**SANDY SILT** (ML) 11.5
13									
14									
15									FS315 FS315 & FS316 combined for gradation, p200=69%, Sa=23%, Gr=8%, Moisture=17.6%
16	SPT	FS315	6 13 16 20			29			
17									
18									
19									
20									
21	SPT	FS316	25 25 23 28			48			
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-57

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *Geoprobe 8040DT*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Ryder - GeoTek AK*

Total Depth: *22.0 feet*
Date: *10/1/2022 - 10/1/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)	7.5	
Time		
Date		
Symbol	▼	

Weather: Clear

Surface: Grass

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SM		**Slightly Organic SILTY SAND with Gravel** (SM) Grey Brown, dry to moist 0.0
3	SPT	FS317	7 9 9 6			18			FS317 FS317 & FS318 combined for gradation, p200=37%, Sa=43%, Gr=20%, Moisture=10.2%, Org=2.1%
5									5.0
6	SPT	FS318	5 4 8 9			12	SM		**Organic SILTY SAND with Gravel** (SM) Grey Brown, dry to moist FS318 Moisture=19.5%, Org=5.8%
7									7.5
8	SPT	FS319	1 2 4 20			6	ML		**SANDY SILT** (ML) Light brown, moist FS319 p200=49%, Sa=41%, Gr=10%, Moisture=21.3%
10	SPT		22 30R						No Recovery
15	SPT	FS320	4 3 7 11			10			FS320 p200=52%, Sa=41%, Gr=7%
20	SPT	FS321	3 6 10 11			16			FS321 Moisture=14.2%
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-58

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location: *See TH Location Map*
Offset:
Elevation:

Equipment_Type: *Geoprobe 8040DT*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Ryder - GeoTek AK*

Total Depth: *22.0 feet*
Date: *10/1/2022 - 10/1/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Clear

Surface: Grass

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							ML		**SANDY SILT** (ML) Grey Light brown, dry to moist — 0.0
1									
2									
3	SPT	FS322	4 4 5 6			9			FS322 p200=70%, Sa=30%, Gr=0%, Moisture=22.1%
4									
5							SM		**SILTY SAND** (SM) Grey Light brown, dry FS323 p200=18%, Sa=82%, Gr=0%, Moisture=9.1% — 5.0
6	SPT	FS323	4 8 11 11			19			
7									— 7.5
8	SPT	FS324	1 7 9 9			16	ML		**SANDY SILT** (ML) Grey Light brown, dry to moist FS324 FS324 & FS325 combined for gradation, p200=48%, Sa=45%, Gr=7%, Moisture=17.7%
9									
10									FS325 Moisture=12.7%
11	SPT	FS325	5 8 9 11			17			
12									
13									
14									
15							ML		**SILT** (ML) Grey Light brown, dry to moist FS326 FS326 & FS327 combined for gradation, p200=84%, Sa=10%, Gr=6% — 15.0
16	SPT	FS326	4 6 8 9			14			
17									
18									
19									
20									
21	SPT	FS327	5 5 7 9			12			
22								BOH 22	— 22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/8/22

TEST HOLE LOG

HOLE # TH22-59

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *Geoprobe 8040DT*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Ryder - GeoTek AK*

Total Depth: *22.0 feet*
Date: *10/2/2022 - 10/2/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Rain

Surface: Grass

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							ML		**SILT** (ML) Light brown, dry to moist 0.0
3	SPT	FS328	1 1 1 2			2			FS328 FS328 & FS329 combined for gradation, p200=88%, Sa=12%, Gr=0%, Moisture=34.7%, Org=1.6%
6	SPT	FS329	1 1 3 6			4			FS329 Moisture=33.6%
8	SPT	FS330	5 7 7 9			14			FS330 Moisture=25.3%
10									10.0
11	SPT	FS331	6 12 15 11			27	ML		**SANDY SILT** (ML) Light brown, dry to moist FS331 p200=50%, Sa=40%, Gr=10%, Moisture=13.8%
15									15.5
16	SPT	FS332	10 10 12 15				SP-SM		**SAND with Silt** (SP-SM) Light brown Grey, dry to moist FS332 & FS333 combined for gradation, p200=8%, Sa=91%, Gr=1%, Moisture=6.9%
21	SPT	FS333	8 16 14 20			30			
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-60

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *Geoprobe 8040DT*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Ryder - GeoTek AK*

Total Depth: *22.0 feet*
Date: *10/2/2022 - 10/2/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Rain

Surface: Grass

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SM		**SILTY SAND with Gravel** (SM) Light brown, dry to moist 0.0
3	SPT	FS334	4 6 8 10			14			FS334 p200=35%, Sa=42%, Gr=23%, Moisture=11.3%
6	SPT		9 10 12 18			22			No Recovery
7.5									
8	SPT	FS335	9 6 8 9			14	SM		**SILTY SAND** (SM) Light brown, dry to moist FS335 p200=43%, Sa=49%, Gr=8%, Moisture=10.5%
10									10.0
11	SPT	FS336	3 9 6 10			15	ML		**SILT** (ML) Light brown, dry to moist FS336 p200=82%, Sa=17%, Gr=1%
16	SPT	FS337	3 6 9 9			15			FS337 Moisture=17.1%
20									20.0
21	SPT	FS338	4 8 12 14			20	ML		**SANDY SILT** (ML) Light brown, dry to moist FS338 FS337 & FS338 combined for gradation, p200=66%, Sa=31%, Gr=3%
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-61

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *Geoprobe 8040DT*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Ryder - GeoTek AK*

Total Depth: *22.0 feet*
Date: *10/2/2022 - 10/2/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Rain

Surface: Grass

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							ML		**SANDY SILT** (ML) Light brown, dry to moist 0.0
3	SPT	FS339	2 4 5 7			9			FS339 FS339 & FS340 combined for gradation, p200=52%, Sa=37%, Gr=11%, Moisture=15.8%
6	SPT	FS340	3 3 7 8			10			FS340 Moisture=12.3%
7.5									
8	SPT	FS341	4 4 5 10			9	SM		**SILTY SAND with Gravel** (SM) Light brown, dry to moist FS341 FS341 & FS342 combined for gradation, p200=39%, Sa=44%, Gr=17%, Moisture=10.4%
11	SPT	FS342	3 5 8 7			13			FS342 Moisture=10.9%
15									15.0
16	SPT	FS343	3 8 9 12			17	ML		**SANDY SILT** (ML) Light brown, dry to moist FS343 p200=60%, Sa=30%, Gr=10%, Moisture=14.7%
21	SPT	FS344	8 17 13 15			30			
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-62

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *Geoprobe 8040DT*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Ryder - GeoTek AK*

Total Depth: *27.0 feet*
Date: *10/2/2022 - 10/2/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Rain

Surface: Grass

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SM		**SILTY SAND** (SM) Light brown, dry to moist 0.0
3	SPT	FS345	3 3 6 6			9			FS345 p200=37%, Sa=52%, Gr=11%, Moisture=10.6%
5									5.0
6	SPT	FS346	6 8 10 12			18	SM		**SILTY SAND with Gravel** (SM) Light brown, dry to moist FS346 FS346 & FS347 combined for gradation, p200=32%, Sa=47%, Gr=21%, Moisture=5.3%
8	SPT	FS347	2 4 8 9			12			FS347 Moisture=10.5%
10	SPT	FS348	10 18 17 15			35			FS348 p200=28%, Sa=50%, Gr=22%, Moisture=7.1%
15									15.0
16	SPT	FS349	4 3 7 11			10	ML		**SANDY SILT** (ML) Grey, dry to moist FS349 p200=54%, Sa=43%, Gr=3%, Moisture=13.1%
20									20.5
21	SPT	FS350	2 6 8 9				OL		**ORGANIC SILT** (OL) Brown, moist to wet FS350 Moisture=98.4%, Org=35.1%
22									22.0
23							ML		**SANDY SILT** (ML) Grey, dry to moist

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-62

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *Geoprobe 8040DT*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Ryder - GeoTek AK*

Total Depth: *27.0 feet*
Date: *10/2/2022 - 10/2/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Rain

Surface: Grass

Depth (Feet)	Sample Data: Sample Type	Sample Data: Number	Sample Data: Blow Count	Sample Data: Sample	Sample Data: Recovery	Sample Data: N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
23									**SANDY SILT** (ML) Grey, dry to moist (cont.)
24									
25			2						FS351 p200=57%, Sa=41%, Gr=2%, Moisture=17.3%, Org=1.5%
26	SPT	FS351	3 8			11			
27			9					BOH 27	27.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-63

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *Geoprobe 8040DT*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Ryder - GeoTek AK*

Total Depth: *22.0 feet*
Date: *10/3/2022 - 10/3/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Partly Cloudy

Surface: Grass

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SP		**SAND** (SP) Grey Light brown, dry to moist — 0.0
3	SPT	FS352	3 6 7 8			13			FS352 FS352 & FS353 combined for gradation, p200=3%, Sa=95%, Gr=2%, Moisture=4.4%
6	SPT	FS353	4 8 6 8						FS353 Moisture=4.2%
6.5							SM		**SILTY SAND** (SM) Grey Light brown, dry to moist
8	SPT	FS354	4 6 8 12						FS354 p200=28%, Sa=72%, Gr=0%, Moisture=12.1%
8.5							SP		**SAND** (SP) Grey Light brown, dry to moist
11	SPT	FS355	5 8 10 10			18			FS355 FS355, FS356 & FS357 combined for gradation, p200=4%, Sa=93%, Gr=3%, Moisture=3.4%
16	SPT	FS356	6 9 13 15			22			FS356 Moisture=4.5%
21	SPT	FS357	7 8 9 10			17			
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-64

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *Geoprobe 8040DT*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Ryder - GeoTek AK*

Total Depth: *22.0 feet*
Date: *10/3/2022 - 10/3/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Partly Cloudy

Surface: Grass

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							ML		**SANDY SILT** (ML) Light brown, dry to moist — 0.0
3	SPT	FS358	1 2 2 4			4			FS358 p200=52%, Sa=48%, Gr=0%, Moisture=19.8%
6	SPT	FS359	2 3 5 6			8			FS359 p200=64%, Sa=34%, Gr=2%, Moisture=20.1%
8	SPT	FS360	6 6 7 10			13	SP		**SAND** (SP) Grey Brown, dry to moist FS360 FS360 & FS361 combined for gradation, p200=5%, Sa=95%, Gr=0%, Moisture=6.1% — 7.5
11	SPT	FS361	6 10 11 15			21			FS361 Moisture=9.4%
16	SPT	FS362	6 9 10 12			19			FS362 FS362 & FS363 combined for gradation, p200=4%, Sa=94%, Gr=2%, Moisture=3.8%
21	SPT	FS363	8 11 15 13			26			BOH 22 — 22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-65

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *Geoprobe 8040DT*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Ryder - GeoTek AK*

Total Depth: *22.0 feet*
Date: *10/3/2022 - 10/3/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)	16	
Time		
Date		
Symbol	▼	

Weather: Partly Cloudy

Surface: Grass

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							ML		**SILTY SAND with Gravel** (ML) Light brown, dry to moist, No Recovery 0.0
2	GRAB	FS366	8						FS366 FS366 & FS367 combined for gradation, p200=21%, Sa=54%, Gr=25%, Moisture=6.9%
3	SPT		8						SPT - No Recovery
4			4			12			
4			2						
5	GRAB	FS367							FS367 Moisture=7.7%
5			1						SPT - No Recovery
6	SPT		0			0			
6			0						
7			0						
8			0						No Recovery
8	SPT		0			1			
9			1						
9			1						
10			2						No Recovery
11	SPT		2			4			
11			2						
12			4						
15			6				SM		**SILTY SAND** (SM) Light brown Grey, dry to moist FS364 FS364 & FS365 combined for gradation, p200=34%, Sa=53%, Gr=13%, Moisture=14.0% 15.0
16	SPT	FS364	2			3			
16			1						
17			2						
20			17						FS365 Moisture=7.8%
21	SPT	FS365	27			52			
21			25						
22			30						
								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-66

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *Geoprobe 8040DT*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Ryder - GeoTek AK*

Total Depth: *22.0 feet*
Date: *10/3/2022 - 10/3/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Partly Cloudy

Surface: Grass

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SM		**SILTY SAND with Gravel** (SM) Light brown, dry to moist 0.0
3	SPT	FS368	5 9 7 6			16			FS368 FS368 & FS369 combined for gradation, p200=27%, Sa=48%, Gr=25%, Moisture=8.2%
6	SPT	FS369	5 7 4 6			11			FS369 Moisture=10.6%
7.5									
8	SPT	FS370	2 4 5 8			9	SM		**SILTY SAND** (SM) Light brown, dry to moist FS370 FS370 & FS371 combined for gradation, p200=19%, Sa=78%, Gr=3%, Moisture=11.0%
11	SPT	FS371	5 6 7 14			13			FS371 Moisture=10.8%
15									15.0
16	SPT	FS372	10 10 10 16			20	SP		**SAND with Gravel** (SP) Grey Light brown, dry to moist FS372 p200=4%, Sa=60%, Gr=36%, Moisture=3.4%
20									20.0
21	SPT	FS373	9 9 12 17			21	ML		**SANDY SILT** (ML) Light brown Grey, dry to moist FS373 p200=51%, Sa=46%, Gr=3%
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-67

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *Geoprobe 8040DT*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Ryder - GeoTek AK*

Total Depth: *22.0 feet*
Date: *10/4/2022 - 10/4/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Partly Cloudy

Surface: Grass

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							ML		**Slightly Organic SANDY SILT** (ML) Light brown, dry to moist 0.0
3	SPT	FS374	1 0 1 1			1			FS374 p200=72%, Sa=27%, Gr=1%, Moisture=28.5%, Org=3.2%
5							SM		5.0
6	SPT	FS375	0 3 5 3			8			**Slightly Organic SILTY SAND with Gravel** (SM) Brown, dry to moist FS375 p200=37%, Sa=44%, Gr=19%, Moisture=25.9%, Org=4.4%
7									7.5
8	SPT	FS376	2 2 2 4			4	ML		**SANDY SILT** (ML) Brown, dry to moist FS376 p200=56%, Sa=44%, Gr=0%, Moisture=18.1%, Org=1.5%
10							SM		10.0
11	SPT	FS377	5 6 8 9			14			**SILTY SAND** (SM) Light brown Grey, dry to moist FS377 p200=26%, Sa=74%, Gr=0%, Moisture=11.7%
15							SP-SM		15.0
16	SPT	FS378	5 9 8 11			17			**SAND with Silt** (SP-SM) Light brown Grey, dry to moist FS378 p200=5%, Sa=95%, Gr=0%
20							SM		20.0
21	SPT	FS379	5 6 7 10			13			**SILTY SAND** (SM) Light brown Grey, dry to moist FS379 Moisture=15.3%
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-68

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *Geoprobe 8040DT*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Ryder - GeoTek AK*

Total Depth: *22.0 feet*
Date: *10/4/2022 - 10/4/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Partly Cloudy

Surface: Moss

Depth (Feet)	Sample Data: Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SP-SM		**SAND with Silt and Gravel** (SP-SM) Grey Light brown, dry to moist 0.0
3	SPT	FS380	12 16 17 23			33			FS380 FS380, FS381 & FS382 combined for gradation, p200=8%, Sa=57%, Gr=35%, Moisture=2.8%
6	SPT	FS381	13 22 15 18			37			
8	SPT	FS382	7 12 15 18			27			FS382 Moisture=2.5%
11	SPT		9 29 32 25			61			No Recovery
16	SPT	FS383	14 16 17 21			33			FS383 FS383 & FS384 combined for gradation, p200=5%, Sa=51%, Gr=44%
21	SPT	FS384	9 10 15 12			25			FS384 Moisture=2.2%
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-69

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *Geoprobe 8040DT*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Ryder - GeoTek AK*

Total Depth: *22.0 feet*
Date: *10/4/2022 - 10/4/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Partly Cloudy

Surface: Grass

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							SP		**SAND** (SP) Light brown Grey, dry to moist 0.0
3	SPT	FS385	2, 3, 4, 3				ML		FS385 Moisture=5.1%, Org=0.7% **SILT** (ML) Light brown, dry to moist 3.0
5	SPT	FS386	2, 8, 15, 13			23	SP-SM		**SAND with Silt and Gravel** (SP-SM) Light brown Grey, dry to moist FS386 FS386 & FS387 combined for gradation, p200=7%, Sa=71%, Gr=22%, Moisture=6.3% 5.0
8	SPT	FS387	6, 9, 11, 12			20			FS387 Moisture=7.1%
10	SPT	FS388	3, 6, 6, 7			12	SP		**SAND** (SP) Grey Light brown, dry to moist FS388 p200=3%, Sa=95%, Gr=2%, Moisture=6.9% 10.0
15	SPT	FS389	7, 13, 22, 23			35	SP-SM		**SAND with Silt and Gravel** (SP-SM) Grey Light brown, dry to moist FS389 FS389 & FS390 combined for gradation, p200=6%, Sa=66%, Gr=28% 15.0
20	SPT	FS390	8, 12, 14, 14			26			FS390 Moisture=2.7%
22								BOH 22	22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

TEST HOLE LOG

HOLE # TH22-70

STATE OF ALASKA DOT&PF
Central Region Materials

PROJECT NUMBER : *CFHWY00130*
PROJECT : *Sterling Highway Safety Corridor Improvements, MP 82.5-94*

Station / Location:
Offset: See TH Location Map
Elevation:

Equipment_Type: *Geoprobe 8040DT*
Drilling Method: *Hollow-Stem Auger*
Field Crew: *James & Ryder - GeoTek AK*

Total Depth: *22.0 feet*
Date: *10/4/2022 - 10/4/2022*
Geologist: *F. Plumlee*

Ground Water Data		
Depth in (ft.)		
Time		
Date		
Symbol		

Weather: Partly Cloudy

Surface: Grass

Depth (Feet)	Sample Type	Number	Blow Count	Sample	Recovery	N-Value	USCS Classification Frozen Zone	Soil Graphic	SUBSURFACE MATERIAL
0							ML		**Slightly Organic SANDY SILT** (ML) Light brown 0.0
3	SPT	FS391	2 2 2 1			4			FS391 Moisture=23.2%, Org=2.9%
5	SPT		0 0						SPT - No Recovery
6	GRAB	FS392	0 0			0			FS392 FS392 & FS393 combined for gradation, p200=67%, Sa=29%, Gr=4%, Moisture=30.0%, Org=3.7%
8	SPT	FS393	7 9 9 9			18			FS393 Moisture=17.8%, Org=2.9%
10							OL/MLS		**ORGANIC SILT** (OL/MLS) Light brown Grey FS394 p200=51%, Sa=44%, Gr=5%, Moisture=33%, Org=10.4% 10.0
11	SPT	FS394	5 6 7 9			13			
12							GP-GM		**GRAVEL with Silt and Sand** (GP-GM) Grey Light brown 12.0
15	SPT	FS395	24 18 27 29			45			FS395 p200=5%, Sa=46%, Gr=49%, Moisture=2.7%
18							SP		**SAND** (SP) Light brown Grey 18.0
20	SPT	FS396	8 12 12 13			24			FS396 p200=4%, Sa=93%, Gr=3%, Moisture=5.2%
22							BOH 22		22.0

☒ CME Auto Hammer ☐ Cathead Rope Method ☒ 140 lb. hammer with 30 in. drop ☐ 340 lb. hammer with 30 in. drop

A USCS LOG OF TEST HOLE STERLING HWY SAFETY CORRIDOR IMPS MP 82.5-94 DRAFT GINT LOGS_IFM.GPJ 2006DATATEMPLATE.GDT 12/1/22

APPENDIX C

PRECONSTRUCTION SAMPLE SUMMARY REPORTS

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		0.5-1'	2.5-3'	0.5-3'	3-6'	3-3.5'	5-6
Test Site ID		TH22-01	TH22-01	TH22-01	TH22-01	TH22-01	TH22-01
Field No.		FS-01	FS-02	FS-01 & FS-02	FS-03 & FS-04	FS-03	FS-04
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/12/2022	9/12/2022	9/12/2022	9/12/2022	9/12/2022	9/12/2022
Lab No.		2022A-3172	2022A-3173	2022A-3174	2022A-3175	2022A-3176	2022A-3177
Percent Passing Sieve Size	3"						
	2"						
	1"			99	100		
	3/4"			92	95		
	1/2"			74	84		
	3/8"			65	78		
	#4			48	62		
	#10			36	50		
	#40			17	29		
	#100			8	18		
	#200			5.7	14.4		
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		2.7 /	5.2 /	/	/	6.4 /	3.2 /
% Grvl / Snd / Fines		/ /	/ /	52 / 42 / 6	38 / 48 / 14	/ /	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		7.5-8'	7.5-11'	0.5-1.0'	2.5-3.5'	5-6'	2.5-6'
Test Site ID		TH22-01	TH22-01	TH22-02	TH22-02	TH22-02	TH22-02
Field No.		FS-05	FS-05 & FS-06	FS-07	FS-08	FS-09	FS-08 & FS-09
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/12/2022	9/12/2022	9/12/2022	9/12/2022	9/12/2022	9/12/2022
Lab No.		2022A-3178	2022A-3179	2022A-3180	2022A-3181	2022A-3182	2022A-3183
Percent Passing Sieve Size	3"						
	2"						
	1"		97				100
	3/4"		89				99
	1/2"		76				98
	3/8"		70				95
	#4		58				80
	#10		45				65
	#40		23				26
	#100		10				9
	#200		7.7				6.9
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		3.4 /	/	2.2 /	9.2 /	12.1 /	/
% Grvl / Snd / Fines		/ /	42 / 50 / 8	/ /	/ /	/ /	20 / 73 / 7
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		6-9'	6-6.5'	10-10.5'	10.5-11'	0.5-1'	2.5-3'
Test Site ID		TH22-02	TH22-02	TH22-02	TH22-02	TH22-03	TH22-03
Field No.		FS-10 & FS-11	FS-10	FS-12	FS-13	FS-14	FS-15
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/12/2022	9/12/2022	9/12/2022	9/12/2022	9/12/2022	9/12/2022
Lab No.		2022A-3184	2022A-3185	2022A-3186	2022A-3187	2022A-3188	2022A-3189
Percent Passing Sieve Size	3"						
	2"						
	1"				93		
	3/4"				88		
	1/2"	100			80		
	3/8"	100			76		
	#4	98			67		
	#10	97			58		
	#40	94			39		
	#100	91			12		
	#200	88.8			8.2		
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		/	79.9 /	2.6 /	/	2.9 /	8 /
% Grvl / Snd / Fines		2 / 9 / 89	/ /	/ /	33 / 59 / 8	/ /	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		0.5-6'	7.5-9.5'	7.5-12'	15-16'	0.5-1'	2.5-3'
Test Site ID		TH22-03	TH22-03	TH22-03	TH22-03	TH22-04	TH22-04
Field No.		FS-14, FS-15 & FS-16	FS-17	FS-17 & FS-18	FS-19	FS-20	FS-21
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/12/2022	9/12/2022	9/12/2022	9/12/2022	9/13/2022	9/13/2022
Lab No.		2022A-3190	2022A-3191	2022A-3192	2022A-3193	2022A-3194	2022A-3195
Percent Passing Sieve Size	3"						
	2"						
	1"	96			90		
	3/4"	91			83		
	1/2"	80		100	71		
	3/8"	73		100	64		
	#4	55		100	53		
	#10	42		100	42		
	#40	22		98	22		
	#100	10		93	10		
	#200	7.8		90.4	7.4		
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	40 / 21 / 19	/ /	/ /	/ /
Sample Prep				Dry			
Nat Moist / Organic		/	29.4 /	/	2 /	3 /	4.1 /
% Grvl / Snd / Fines		45 / 47 / 8	/ /	0 / 10 / 90	47 / 46 / 7	/ /	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		0.5-3'	5-6'	7.5-9'	10-11'	0.5-1'	2.5-3.5'
Test Site ID		TH22-04	TH22-04	TH22-04	TH22-04	TH22-05	TH22-05
Field No.		FS-20 & FS-21	FS-22	FS-23	FS-24	FS-25	FS-26
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/13/2022	9/13/2022	9/13/2022	9/13/2022	9/13/2022	9/13/2022
Lab No.		2022A-3196	2022A-3197	2022A-3198	2022A-3199	2022A-3200	2022A-3201
Percent Passing Sieve Size	3"						
	2"						
	1"	97	100		97		100
	3/4"	90	97	100	84		98
	1/2"	74	89	100	72		98
	3/8"	66	82	99	66		98
	#4	51	72	97	48		97
	#10	39	63	95	34		96
	#40	17	30	78	16		80
	#100	7	26	29	10		19
	#200	5.2	22.8	22.7	7.6		11.2
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		/	7.2 /	10.1 /	/	2.4 /	4.2 /
% Grvl / Snd / Fines		49 / 46 / 5	28 / 49 / 23	3 / 74 / 23	52 / 40 / 8	/ /	3 / 86 / 11
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		5-5.5'	7.5-9'	7.5-11.5'	0.5-3.5'	0.5-1'	2.5-3.5'
Test Site ID		TH22-05	TH22-05	TH22-05	TH22-06	TH22-06	TH22-06
Field No.		FS-27	FS-28	FS-28 & FS-29	FS-31 & FS-32	FS-31	FS-32
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/13/2022	9/13/2022	9/13/2022	9/13/2022	9/13/2022	9/13/2022
Lab No.		2022A-3202	2022A-3203	2022A-3204	2022A-3205	2022A-3206	2022A-3207
Percent Passing Sieve Size	3"						
	2"						
	1"				97		
	3/4"			100	91		
	1/2"			100	80		
	3/8"			99	73		
	#4			97	60		
	#10			94	46		
	#40			82	22		
	#100			57	8		
	#200			47.4	5.4		
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		5.3 /	12.7 /	/	/	3 /	2.6 /
% Grvl / Snd / Fines		/ /	/ /	3 / 50 / 47	40 / 55 / 5	/ /	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		5-6'	7.5-8.5'	10-11.5'	7.5-11.5'	0.5'-1'	2.5-3.5'
Test Site ID		TH22-06	TH22-06	TH22-06	TH22-06	TH22-07	TH22-07
Field No.		FS-33	FS-34	FS-35	FS-34 & FS-35	FS-36	FS-37
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/13/2022	9/13/2022	9/13/2022	9/13/2022	9/13/2022	9/13/2022
Lab No.		2022A-3208	2022A-3209	2022A-3210	2022A-3211	2022A-3212	2022A-3213
Percent Passing Sieve Size	3"						
	2"						
	1"				100		
	3/4"				98		
	1/2"				97		100
	3/8"				94		99
	#4				88		98
	#10				81		95
	#40				55		83
	#100				22		25
	#200				13.9		13.4
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		2.8 /	5.8 /	13.8 /	/	5.8 /	7.2 /
% Grvl / Snd / Fines		/ /	/ /	/ /	12 / 74 / 14	/ /	2 / 85 / 13
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		5-6'	10-11	5-11'	0.5-1'	2.5-3.5'	5-6'
Test Site ID		TH22-07	TH22-07	TH22-07	TH22-08	TH22-08	TH22-08
Field No.		FS-38	FS-40	FS-38, FS-39 & FS-40	FS-41	FS-42	FS-43
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/13/2022	9/13/2022	9/13/2022	9/13/2022	9/13/2022	9/13/2022
Lab No.		2022A-3214	2022A-3215	2022A-3216	2022A-3217	2022A-3218	2022A-3219
Percent Passing Sieve Size	3"						
	2"				100		
	1"			97	93		
	3/4"			91	91		
	1/2"			80	76		
	3/8"			71	68		
	#4			54	51		
	#10			37	37		
	#40			20	15		
	#100			10	7		
	#200			7	5.2		
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		2.6 /	2.6 /	/	2.3 /	2.5 /	2.2 /
% Grvl / Snd / Fines		/ /	/ /	46 / 47 / 7	49 / 46 / 5	/ /	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		2.5-6'	7.5-10.5'	7.5-8.5'	7.5-10.5'	0.5-1'	0.5-4'
Test Site ID		TH22-08	TH22-08	TH22-08	TH22-08	TH22-09	TH22-09
Field No.		FS-42 & FS-43	FS-44 & FS-45	FS-44	FS-45	FS-46	FS-46 & FS-47
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/13/2022	9/13/2022	9/13/2022	9/13/2022	9/14/2022	9/14/2022
Lab No.		2022A-3220	2022A-3221	2022A-3222	2022A-3223	2022A-3224	2022A-3225
Percent Passing Sieve Size	3"						100
	2"						92
	1"	100	92				90
	3/4"	98	84				82
	1/2"	89	76				71
	3/8"	84	70				64
	#4	68	53				52
	#10	55	40				42
	#40	27	17				21
	#100	11	6				7
	#200	8.6	4.9				5
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		/	/	1.4 /	1.8 /	2 /	/
% Grvl / Snd / Fines		32 / 59 / 9	47 / 48 / 5	/ /	/ /	/ /	48 / 47 / 5
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		5-6.5'	10-11.5'	5-11.5'	2.5-6.5'	2.5-3.5'	7.5-9'
Test Site ID		TH22-09	TH22-09	TH22-09	TH22-10	TH22-10	TH22-10
Field No.		FS-48	FS-50	FS-48, FS-49 & FS-50	FS-51 & FS-52	FS-51	FS-53
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/14/2022	9/14/2022	9/14/2022	9/14/2022	9/14/2022	9/14/2022
Lab No.		2022A-3226	2022A-3227	2022A-3228	2022A-3229	2022A-3230	2022A-3231
Percent Passing Sieve Size	3"						
	2"						
	1"			100	99		
	3/4"			99	97		
	1/2"			96	93		
	3/8"			95	92		
	#4			92	87		
	#10			88	83		
	#40			59	55		
	#100			13	12		
	#200			7.9	7		
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		3.7 /	5.2 /	/	/	4.9 /	10.9 /
% Grvl / Snd / Fines		/ /	/ /	8 / 84 / 8	13 / 80 / 7	/ /	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		7.5-11.5'	15-16.5'	15-21'	0.5-3'	2.5-3'	3-3.5'
Test Site ID		TH22-10	TH22-10	TH22-10	TH22-11	TH22-11	TH22-11
Field No.		FS-53 & FS-54	FS-55	FS-55 & FS-56	FS-57 & FS-58	FS-58	FS-59
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/14/2022	9/14/2022	9/14/2022	9/14/2022	9/14/2022	9/14/2022
Lab No.		2022A-3232	2022A-3233	2022A-3234	2022A-3235	2022A-3236	2022A-3237
Percent Passing Sieve Size	3"						
	2"						
	1"	100		98	98		
	3/4"	98		95	94		
	1/2"	94		92	83		
	3/8"	92		91	75		
	#4	87		86	58		
	#10	81		80	46		
	#40	52		41	25		
	#100	12		11	8		
	#200	8.2		7.8	6		
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		/	6 /	/	/	8.1 /	8.2 /
% Grvl / Snd / Fines		13 / 79 / 8	/ /	14 / 78 / 8	42 / 52 / 6	/ /	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		5-6'	3-6'	7.5-11'	10-11'	2.5-3.5'	5-6'
Test Site ID		TH22-11	TH22-11	TH22-11	TH22-11	TH22-12	TH22-12
Field No.		FS-60	FS-59 & FS-60	FS-61 & FS-62	FS-62	FS-63	FS-64
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/14/2022	9/14/2022	9/14/2022	9/14/2022	9/14/2022	9/14/2022
Lab No.		2022A-3238	2022A-3239	2022A-3240	2022A-3241	2022A-3242	2022A-3243
Percent Passing Sieve Size	3"						
	2"						
	1"		100	96			
	3/4"		96	94		100	
	1/2"		91	90		97	
	3/8"		88	88		94	
	#4		82	82		87	
	#10		76	77		81	
	#40		66	69		69	
	#100		46	45		53	
	#200		35.4	39.5		45.2	
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	16 / 12 / 4	/ /	/ /	/ /	/ /
Sample Prep			Dry				
Nat Moist / Organic		8.8 /	/	/	7.3 /	15.2 /	2.7 /
% Grvl / Snd / Fines		/ /	18 / 47 / 35	18 / 42 / 40	/ /	13 / 42 / 45	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		10-10.5'	5-10.5'	15-21'	20-21'	2.5-3.5'	5-6'
Test Site ID		TH22-12	TH22-12	TH22-12	TH22-12	TH22-13	TH22-13
Field No.		FS-66	FS-64, FS-65 & FS-66	FS-67 & FS-68	FS-68	FS-69	FS-70
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/14/2022	9/14/2022	9/14/2022	9/14/2022	9/14/2022	9/14/2022
Lab No.		2022A-3244	2022A-3245	2022A-3246	2022A-3247	2022A-3248	2022A-3249
Percent Passing Sieve Size	3"						
	2"						
	1"		95	95		97	88
	3/4"		81	87		97	88
	1/2"		71	79		87	88
	3/8"		65	70		86	85
	#4		50	50		80	76
	#10		38	33		76	67
	#40		16	20		64	54
	#100		9	8		31	35
	#200		8	5.9		23.8	28.4
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		2.1 /	/	/	2.1 /	11.1 /	7.5 /
% Grvl / Snd / Fines		/ /	50 / 42 / 8	50 / 44 / 6	/ /	20 / 56 / 24	24 / 48 / 28
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		7.5-9'	10-11'	7.5-11'	15-20.5'	20-20.5'	0.5-1'
Test Site ID		TH22-13	TH22-13	TH22-13	TH22-13	TH22-13	TH22-14
Field No.		FS-71	FS-72	FS-71 & FS-72	FS-73 & FS-74	FS-74	FS-75
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/14/2022	9/14/2022	9/14/2022	9/14/2022	9/14/2022	9/15/2022
Lab No.		2022A-3250	2022A-3251	2022A-3252	2022A-3253	2022A-3254	2022A-3255
Percent Passing Sieve Size	3"						
	2"						
	1"			98	97		
	3/4"			97	92		
	1/2"			90	86		
	3/8"			87	84		
	#4			82	78		
	#10			77	72		
	#40			68	63		
	#100			51	47		
	#200			41.5	38.5		
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		10.3 /	10 /	/	/	7.7 /	1.7 /
% Grvl / Snd / Fines		/ /	/ /	18 / 40 / 42	22 / 39 / 39	/ /	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		2.5-3'	0.5-3'	3-6'	3-3.5'	7.5-9'	7.5-11.5'
Test Site ID		TH22-14	TH22-14	TH22-14	TH22-14	TH22-14	TH22-14
Field No.		FS-76	FS-75 & FS-76	FS-77 & FS-78	FS-77	FS-79	FS-79 & FS-80
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/15/2022	9/15/2022	9/15/2022	9/15/2022	9/15/2022	9/15/2022
Lab No.		2022A-3256	2022A-3257	2022A-3258	2022A-3259	2022A-3260	2022A-3261
Percent Passing Sieve Size	3"						
	2"		100				
	1"		93	93			100
	3/4"		86	86			99
	1/2"		68	80			95
	3/8"		59	76			93
	#4		46	65			87
	#10		37	55			82
	#40		19	37			55
	#100		6	20			25
	#200		4.7	15.4			19.4
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		3.2 /	/	/	4.7 /	7 /	/
% Grvl / Snd / Fines		/ /	54 / 41 / 5	35 / 50 / 15	/ /	/ /	13 / 68 / 19
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		2.5-3.5'	0.5-3.5'	5-6'	7.5-11'	7.5-8.5'	10-11'
Test Site ID		TH22-15	TH22-15	TH22-15	TH22-15	TH22-15	TH22-15
Field No.		FS-82	FS-81 & FS-82	FS-83	FS-84 & FS-85	FS-84	FS-85
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/15/2022	9/15/2022	9/15/2022	9/15/2022	9/15/2022	9/15/2022
Lab No.		2022A-3263	2022A-3264	2022A-3265	2022A-3266	2022A-3267	2022A-3268
Percent Passing Sieve Size	3"						
	2"						
	1"		100	93			
	3/4"		96	93			
	1/2"		80	93			
	3/8"		71	93	100		
	#4		52	91	100		
	#10		41	88	100		
	#40		20	81	98		
	#100		7	51	96		
	#200		5.1	37.1	92.3		
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		2.9 /	/	11.2 /	/	21.8 /	22.6 /
% Grvl / Snd / Fines		/ /	48 / 47 / 5	9 / 54 / 37	0 / 8 / 92	/ /	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		0.6-1'	2.5-3'	0.6-3'	5-6'	7.5-11.5'	7.5-8.5'
Test Site ID		TH22-15	TH22-16	TH22-16	TH22-16	TH22-16	TH22-16
Field No.		FS-86	FS-87	FS-86 & FS-87	FS-88	FS-89 & FS-90	FS-89
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/15/2022	9/15/2022	9/15/2022	9/15/2022	9/15/2022	9/15/2022
Lab No.		2022A-3269	2022A-3270	2022A-3271	2022A-3272	2022A-3273	2022A-3274
Percent Passing Sieve Size	3"						
	2"			100			
	1"			96			
	3/4"			94			
	1/2"			82	100	100	
	3/8"			71	99	100	
	#4			52	98	99	
	#10			37	94	99	
	#40			18	86	81	
	#100			9	65	9	
	#200			6.8	57.5	4.1	
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		2 /	2.8 /	/	14.6 /	/	4.5 /
% Grvl / Snd / Fines		/ /	/ /	48 / 45 / 7	2 / 40 / 58	1 / 95 / 4	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		7.5-11.5'	2.5-4'	0.5-4'	5-6.5'	10-12'	5-8.5'
Test Site ID		TH22-16	TH22-17	TH22-17	TH22-17	TH22-17	TH22-17
Field No.		FS-90	FS-92	FS-91 & FS-92	FS-93	FS-95	FS-94 & FS-95
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/15/2022	9/15/2022	9/15/2022	9/15/2022	9/15/2022	9/15/2022
Lab No.		2022A-3275	2022A-3276	2022A-3277	2022A-3278	2022A-3279	2022A-3280
Percent Passing Sieve Size	3"						
	2"						
	1"			99			
	3/4"			94			100
	1/2"			75			99
	3/8"			67	100		98
	#4			50	100		95
	#10			36	99		91
	#40			18	95		80
	#100			9	68		57
	#200			7.1	39.1		45.3
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		4.2 /	2.6 /	/	11.1 /	11.8 /	/
% Grvl / Snd / Fines		/ /	/ /	50 / 43 / 7	0 / 61 / 39	/ /	5 / 50 / 45
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		0.5-3'	2.5-3'	5-6'	3-6'	7.5-11.5'	7.5-8.5'
Test Site ID		TH22-18	TH22-18	TH22-18	TH22-18	TH22-18	TH22-18
Field No.		FS-96 & FS-97	FS-97	FS-99	FS-98 & FS-99	FS-100 & FS-101	FS-100
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/15/2022	9/15/2022	9/15/2022	9/15/2022	9/15/2022	9/15/2022
Lab No.		2022A-3281	2022A-3282	2022A-3283	2022A-3284	2022A-3285	2022A-3286
Percent Passing Sieve Size	3"						
	2"						
	1"	95			100		
	3/4"	91			90		
	1/2"	80			87		
	3/8"	74			84		
	#4	57			79	99	
	#10	43			75	99	
	#40	20			62	95	
	#100	8			36	85	
	#200	5.6			29.8	80	
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		/	4.7 /	7.3 /	/	/	22.3 /
% Grvl / Snd / Fines		43 / 51 / 6	/ /	/ /	21 / 49 / 30	1 / 19 / 80	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		10-11.5'	2.5-3.5'	5-6'	7.5-9.'	7.5-11.5'	15-21.5'
Test Site ID		TH22-18	TH22-19	TH22-19	TH22-19	TH22-19	TH22-19
Field No.		FS-101	FS-102	FS-103	FS-104	FS-104 & FS-105	FS-106 & FS-107
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/15/2022	9/16/2022	9/16/2022	9/16/2022	9/16/2022	9/16/2022
Lab No.		2022A-3287	2022A-3288	2022A-3289	2022A-3290	2022A-3291	2022A-3292
Percent Passing Sieve Size	3"						
	2"						
	1"			100		98	
	3/4"			98		97	100
	1/2"		100	97		96	99
	3/8"		98	97		96	99
	#4		96	97		94	98
	#10		93	96		92	97
	#40		74	86		85	92
	#100		16	31		63	67
	#200		11.3	18.5		54.6	47.4
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		19.9 /	8.2 /	7.7 /	16.5 /	/	/
% Grvl / Snd / Fines		/ /	4 / 85 / 11	3 / 78 / 19	/ /	6 / 39 / 55	2 / 51 / 47
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		15-16.5'	0.5-1'	2.5-4'	5-6.5'	2.5-6.5'	7.5-11.5'
Test Site ID		TH22-19	TH22-20	TH22-20	TH22-20	TH22-20	TH22-20
Field No.		FS-106	FS-108	FS-109	FS-110	FS-109 & FS-110	FS-111 & FS-112
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/16/2022	9/16/2022	9/16/2022	9/16/2022	9/16/2022	9/16/2022
Lab No.		2022A-3293	2022A-3294	2022A-3295	2022A-3296	2022A-3297	2022A-3298
Percent Passing Sieve Size	3"						
	2"						
	1"		99				100
	3/4"		95			100	98
	1/2"		73			100	97
	3/8"		62			99	96
	#4		41			97	93
	#10		30			94	89
	#40		15			81	82
	#100		9			37	50
	#200		6.6			24	36.2
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		10.6 /	2.5 /	4.1 /	6.8 /	/	/
% Grvl / Snd / Fines		/ /	59 / 34 / 7	/ /	/ /	3 / 73 / 24	7 / 57 / 36
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		7.5-8.5'	10-11.5'	2.5-3'	0.5-3'	3-6'	3-3.5'
Test Site ID		TH22-20	TH22-20	TH22-21	TH22-21	TH22-21	TH22-21
Field No.		FS-111	FS-112	FS-114	FS-113 & FS-114	FS-115 & FS-116	FS-115
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/16/2022	9/16/2022	9/16/2022	9/16/2022	9/16/2022	9/16/2022
Lab No.		2022A-3299	2022A-3300	2022A-3301	2022A-3302	2022A-3303	2022A-3304
Percent Passing Sieve Size	3"						
	2"						
	1"				100		
	3/4"				95	100	
	1/2"				81	96	
	3/8"				73	93	
	#4				54	90	
	#10				41	86	
	#40				20	75	
	#100				8	40	
	#200				5.9	27.2	
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		4.5 /	9.2 /	3.6 /	/	/	7.7 /
% Grvl / Snd / Fines		/ /	/ /	/ /	46 / 48 / 6	10 / 63 / 27	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		5-6'	7.5-9'	10-11'	2.5-3'	5-6'	7.5-8'
Test Site ID		TH22-21	TH22-21	TH22-21	TH22-22	TH22-22	TH22-22
Field No.		FS-116	FS-117	FS-118	FS-119	FS-120	FS-121
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/16/2022	9/16/2022	9/16/2022	9/16/2022	9/16/2022	9/16/2022
Lab No.		2022A-3305	2022A-3306	2022A-3307	2022A-3308	2022A-3309	2022A-3310
Percent Passing Sieve Size	3"						
	2"						
	1"						
	3/4"		100	100		100	
	1/2"		98	91		95	
	3/8"		98	84		92	
	#4		95	66		87	
	#10		91	48		82	
	#40		74	22		65	
	#100		46	13		35	
	#200		36.5	9.7		25.6	
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		8.7 /	7.4 /	2.9 /	4.8 /	8.2 /	3.9 /
% Grvl / Snd / Fines		/ /	5 / 58 / 37	34 / 56 / 10	/ /	13 / 61 / 26	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		10-11	7.5-11'	15-21'	15-16.5'	0.5-3'	0.5-3'
Test Site ID		TH22-22	TH22-22	TH22-22	TH22-22	TH22-23	TH22-23
Field No.		FS-122	FS-121 & FS-122	FS-123 & FS-124	FS-123	FS-126	FS-125 & FS-126
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/16/2022	9/16/2022	9/16/2022	9/16/2022	9/17/2022	9/17/2022
Lab No.		2022A-3311	2022A-3312	2022A-3313	2022A-3314	2022A-3315	2022A-3316
Percent Passing Sieve Size	3"						
	2"						
	1"		100	100			100
	3/4"		88	99			96
	1/2"		79	97			83
	3/8"		72	96			74
	#4		54	92			54
	#10		42	89			41
	#40		17	80			21
	#100		10	61			7
	#200		7.2	50			4.5
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		3.6 /	/	/	13.8 /	12.2 /	/
% Grvl / Snd / Fines		/ /	46 / 47 / 7	8 / 42 / 50	/ /	/ /	46 / 49 / 5
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		3-6'	3-3.5'	5-6'	10-11	7.5-11'	2.5-3.5'
Test Site ID		TH22-23	TH22-23	TH22-23	TH22-23	TH22-23	TH22-24
Field No.		FS-127 & FS-128	FS-127	FS-128	FS-130	FS-129 & FS-130	FS-131
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/17/2022	9/17/2022	9/17/2022	9/17/2022	9/17/2022	9/17/2022
Lab No.		2022A-3317	2022A-3318	2022A-3319	2022A-3320	2022A-3321	2022A-3322
Percent Passing Sieve Size	3"						
	2"						
	1"					100	100
	3/4"	100				98	89
	1/2"	99				94	86
	3/8"	98				93	80
	#4	92				90	61
	#10	87				86	43
	#40	73				77	21
	#100	50				61	11
	#200	40.9				53.3	7.9
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		16 / 12 / 4	/ /	/ /	/ /	/ /	/ /
Sample Prep		Dry					
Nat Moist / Organic		/	11.1 /	9.3 /	13.8 /	/	2.6 /
% Grvl / Snd / Fines		8 / 51 / 41	/ /	/ /	/ /	10 / 37 / 53	39 / 53 / 8
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		5-6'	7.5-8.5'	5-8.5'	10-11'	15-16'	20-22'
Test Site ID		TH22-24	TH22-24	TH22-24	TH22-24	TH22-24	TH22-24
Field No.		FS-132	FS-133	FS-132 & FS-133	FS-134	FS-135	FS-136
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/17/2022	9/17/2022	9/17/2022	9/17/2022	9/17/2022	9/17/2022
Lab No.		2022A-3323	2022A-3324	2022A-3325	2022A-3326	2022A-3327	2022A-3328
Percent Passing Sieve Size	3"						
	2"						
	1"			100			
	3/4"			96	100		
	1/2"			92	99		
	3/8"			90	97		
	#4			82	92		
	#10			75	88		
	#40			48	60		
	#100			13	11		
	#200			7.8	4.9		
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		9.8 /	18.7 /	/	18.2 /	266.7 / 64.3	399.3 /
% Grvl / Snd / Fines		/ /	/ /	18 / 74 / 8	8 / 87 / 5	/ /	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		25.5-26.5'	0.5-1'	2.5-3.5'	5-6'	7.5-8.5'	10-11'
Test Site ID		TH22-24	TH22-25	TH22-25	TH22-25	TH22-25	TH22-25
Field No.		FS-137	FS-138	FS-139	FS-140	FS-141	FS-142
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/17/2022	9/17/2022	9/17/2022	9/17/2022	9/17/2022	9/17/2022
Lab No.		2022A-3329	2022A-3330	2022A-3331	2022A-3332	2022A-3333	2022A-3334
Percent Passing Sieve Size	3"						
	2"						
	1"		99				
	3/4"		93	100	100		
	1/2"		77	95	99		
	3/8"		70	93	97		
	#4		49	87	95		
	#10		35	82	90		
	#40		18	58	63		
	#100		8	17	16		
	#200		5.9	9.7	8.3		
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		53.1 / 10.8	2.3 /	6.3 /	10.3 /	8.2 / 7.5	20 / 2.4
% Grvl / Snd / Fines		/ /	51 / 43 / 6	13 / 77 / 10	5 / 87 / 8	/ /	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		2.5-3.5'	5-6'	2.5-6'	7.5-8.5'	15-16'	15-21'
Test Site ID		TH22-26	TH22-26	TH22-26	TH22-26	TH22-26	TH22-26
Field No.		FS-144	FS-145	FS-144 & FS-145	FS-146	FS-147	FS-147 & FS-148
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/17/2022	9/17/2022	9/17/2022	9/17/2022	9/17/2022	9/17/2022
Lab No.		2022A-3335	2022A-3336	2022A-3337	2022A-3338	2022A-3339	2022A-3340
Percent Passing Sieve Size	3"						
	2"						
	1"			100	100		100
	3/4"			97	95		98
	1/2"			90	93		91
	3/8"			86	89		86
	#4			79	79		79
	#10			71	69		70
	#40			59	47		45
	#100			50	23		9
	#200			44.8	17.3		8.7
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		10.9 /	8.3 /	/	6.6 /	5.8 /	/
% Grvl / Snd / Fines		/ /	/ /	21 / 34 / 45	21 / 62 / 17	/ /	21 / 70 / 9
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		0.6-1'	2.5-3'	5-6'	10-11'	5-11'	0.5-3'
Test Site ID		TH22-27	TH22-27	TH22-27	TH22-27	TH22-27	TH22-28
Field No.		FS-149 & FS-150	FS-150	FS-151	FS-152	FS-151 & FS-152	FS-153 & FS-154
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022
Lab No.		2022A-3341	2022A-3342	2022A-3343	2022A-3344	2022A-3345	2022A-3346
Percent Passing Sieve Size	3"						
	2"						
	1"	96				100	92
	3/4"	93				96	83
	1/2"	79				95	71
	3/8"	70				93	64
	#4	53				90	46
	#10	44				86	36
	#40	26				75	17
	#100	12				54	9
	#200	9				47.2	6.4
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		/	2.9 /	11.1 /	10.3 /	/	/
% Grvl / Snd / Fines		47 / 44 / 9	/ /	/ /	/ /	10 / 43 / 47	54 / 40 / 6
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		2.5-3'	3-3.5'	7.5-9'	3-9'	10-11'	2.5-3.5'
Test Site ID		TH22-28	TH22-28	TH22-28	TH22-28	TH22-28	TH22-29
Field No.		FS-154	FS-155	FS-157	FS-155, FS-156 & FS-157	FS-158	FS-159
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022
Lab No.		2022A-3347	2022A-3348	2022A-3349	2022A-3350	2022A-3351	2022A-3352
Percent Passing Sieve Size	3"						
	2"						
	1"						100
	3/4"				100	100	89
	1/2"				100	99	80
	3/8"				99	99	74
	#4				96	99	55
	#10				93	99	40
	#40				85	95	19
	#100				73	22	9
	#200				66.5	8.8	6.9
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		2.8 /	21.7 /	12.5 /	/	5.1 /	4.1 /
% Grvl / Snd / Fines		/ /	/ /	/ /	4 / 29 / 67	1 / 90 / 9	45 / 48 / 7
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		5-6'	7.5-8.5'	10-11.5'	7.5-11.5'	0.5-1'	2.5-3'
Test Site ID		TH22-29	TH22-29	TH22-29	TH22-29	TH22-30	TH22-30
Field No.		FS-160	FS-161	FS-162	FS-161 & FS-162	FS-163	FS-164
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022
Lab No.		2022A-3353	2022A-3357	2022A-3358	2022A-3359	2022A-3360	2022A-3361
Percent Passing Sieve Size	3"						
	2"						
	1"	100			100	98	
	3/4"	97			97	93	
	1/2"	96			96	78	100
	3/8"	95			95	69	98
	#4	90			92	49	96
	#10	84			89	36	94
	#40	73			75	16	82
	#100	59			48	6	30
	#200	50.4			40.6	4.9	14.2
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		20 /	10 /	13.1 /	/	2.2 /	11 /
% Grvl / Snd / Fines		10 / 40 / 50	/ /	/ /	8 / 51 / 41	51 / 44 / 5	4 / 82 / 14
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		3-3.5'	7.5-8.5'	5-8.5'	10-11'	2.5-3.5'	5-6'
Test Site ID		TH22-30	TH22-30	TH22-30	TH22-30	TH22-31	TH22-31
Field No.		FS-165	FS-167	FS-166 & FS-167	FS-168	FS-169	FS-170
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/20/2022	9/20/2022
Lab No.		2022A-3362	2022A-3363	2022A-3364	2022A-3365	2022A-3366	2022A-3367
Percent Passing Sieve Size	3"						
	2"						
	1"			100	100		
	3/4"	100		96	96		
	1/2"	91		92	90		
	3/8"	84		90	89		
	#4	68		87	82		
	#10	52		84	77		
	#40	32		78	58		
	#100	17		68	13		
	#200	13.3		62.1	7.9		
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		4.6 /	33.2 /	/	5.1 /	3.4 /	4.1 /
% Grvl / Snd / Fines		32 / 55 / 13	/ /	13 / 25 / 62	18 / 74 / 8	/ /	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		2.5-6'	7.5-11'	7.5-8.5'	10-11'	15-16'	20-21.5'
Test Site ID		TH22-31	TH22-31	TH22-31	TH22-31	TH22-31	TH22-31
Field No.		FS-169 & FS-170	FS-171 & FS-172	FS-171	FS-172	FS-173	FS-174
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/20/2022	9/20/2022	9/20/2022	9/20/2022	9/20/2022	9/20/2022
Lab No.		2022A-3368	2022A-3369	2022A-3370	2022A-3371	2022A-3372	2022A-3373
Percent Passing Sieve Size	3"						
	2"						
	1"	100					
	3/4"	95	100				
	1/2"	91	99				
	3/8"	88	99				
	#4	82	97			99	
	#10	77	96			98	100
	#40	40	51			59	99
	#100	7	5			4	57
	#200	5.1	3.3			2.7	15.9
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		/	/	4.8 /	5.4 /	14.3 /	11.2 /
% Grvl / Snd / Fines		18 / 77 / 5	3 / 94 / 3	/ /	/ /	1 / 96 / 3	0 / 84 / 16
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		2.5-3'	5-5.5'	7.5-8'	7.5-10.5'	15-21'	15-16'
Test Site ID		TH22-32	TH22-32	TH22-32	TH22-32	TH22-32	TH22-32
Field No.		FS-175	FS-176	FS-177	FS-177 & FS-178	FS-179 & FS-180	FS-179
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/20/2022	9/20/2022	9/20/2022	9/20/2022	9/20/2022	9/20/2022
Lab No.		2022A-3374	2022A-3375	2022A-3376	2022A-3377	2022A-3378	2022A-3379
Percent Passing Sieve Size	3"						
	2"						
	1"	100			100	100	
	3/4"	79			85	90	
	1/2"	75	100		66	78	
	3/8"	70	98		61	71	
	#4	58	93		48	56	
	#10	48	83		37	42	
	#40	21	53		23	23	
	#100	3	11		11	9	
	#200	0.4	7.6		8.4	6.6	
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		3.4 /	6.1 /	4 /	/	/	4.1 /
% Grvl / Snd / Fines		42 / 58 / 0	7 / 85 / 8	/ /	52 / 40 / 8	44 / 49 / 7	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		2.5-3.5'	5-5.5'	7.5-8.5'	7.5-11'	7.5-11'	15-15.5'
Test Site ID		TH22-33	TH22-33	TH22-33	TH22-33	TH22-33	TH22-33
Field No.		FS-181	FS-182	FS-183	FS-184	FS-183 & FS-184	FS-185
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/20/2022	9/20/2022	9/20/2022	9/20/2022	9/20/2022	9/20/2022
Lab No.		2022A-3380	2022A-3381	2022A-3382	2022A-3383	2022A-3384	2022A-3385
Percent Passing Sieve Size	3"						
	2"						
	1"	100					100
	3/4"	91					92
	1/2"	83					82
	3/8"	80					73
	#4	72				99	57
	#10	66				98	46
	#40	52				95	31
	#100	29				86	13
	#200	21.8				82	9.4
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		7.3 /	8 /	19.8 /	21.8 /	/	/
% Grvl / Snd / Fines		28 / 50 / 22	/ /	/ /	/ /	1 / 17 / 82	43 / 48 / 9
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		20-22'	2.5-3.5'	5-6'	2.5-6'	7.5-11'	7.5-8.5'
Test Site ID		TH22-33	TH22-34	TH22-34	TH22-34	TH22-34	TH22-34
Field No.		FS-186	FS-187	FS-188	FS-187 & FS-188	FS-189 & FS-190	FS-189
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/20/2022	9/20/2022	9/20/2022	9/20/2022	9/20/2022	9/20/2022
Lab No.		2022A-3386	2022A-3387	2022A-3388	2022A-3389	2022A-3390	2022A-3391
Percent Passing Sieve Size	3"						
	2"						
	1"				100		
	3/4"				95	100	
	1/2"				93	98	
	3/8"				93	97	
	#4				90	96	
	#10				88	95	
	#40				66	66	
	#100				10	11	
	#200				6.1	5.5	
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		22 / 15 / 7	/ /	/ /	/ /	/ /	/ /
Sample Prep		Dry					
Nat Moist / Organic		11.2 /	6.1 /	14.2 /	/	/	3.7 /
% Grvl / Snd / Fines		/ /	/ /	/ /	10 / 84 / 6	4 / 90 / 6	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		10-11'	15-21'	5-9'	5-7'	10-11.5'	15-16.5'
Test Site ID		TH22-34	TH22-34	TH22-35	TH22-35	TH22-35	TH22-35
Field No.		FS-190	FS-191 & FS-192	FS-193 & FS-194	FS-193	FS-195	FS-196
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/20/2022	9/20/2022	9/20/2022	9/20/2022	9/20/2022	9/20/2022
Lab No.		2022A-3392	2022A-3393	2022A-3394	2022A-3395	2022A-3396	2022A-3397
Percent Passing Sieve Size	3"						
	2"						
	1"		100	98			
	3/4"		99			100	
	1/2"		99	96		99	
	3/8"		98	95		99	
	#4		95	93		99	
	#10		92	90		99	
	#40		50	86		99	
	#100		6	66		37	
	#200		3.2	47.6		13.4	
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		5.7 /	/	/	11.8 /	6.6 /	9 /
% Grvl / Snd / Fines		/ /	5 / 92 / 3	7 / 45 / 48	/ /	1 / 86 / 13	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		15-21.5'	2.5-3'	7.5-9'	5-9'	10-11'	20-21'
Test Site ID		TH22-35	TH22-36	TH22-36	TH22-36	TH22-36	TH22-36
Field No.		FS-196 & FS-197	FS-198	FS-200	FS-199 & FS-200	FS-201	FS-202
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/20/2022	9/21/2022	9/21/2022	9/21/2022	9/21/2022	9/21/2022
Lab No.		2022A-3398	2022A-3399	2022A-3400	2022A-3401	2022A-3402	2022A-3403
Percent Passing Sieve Size	3"						
	2"						
	1"					78	100
	3/4"		100			73	92
	1/2"		94			69	78
	3/8"		88		100	62	72
	#4	100	81		100	52	55
	#10	100	74		99	42	41
	#40	99	41		97	25	18
	#100	60	8		93	13	8
	#200	30.1	5.8		90.8	9.6	5.6
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		/	15.6 /	35 /	/	6 /	/
% Grvl / Snd / Fines		0 / 70 / 30	19 / 75 / 6	/ /	0 / 9 / 91	48 / 42 / 10	45 / 49 / 6
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		2.5-3.5'	2.5-7'	7.5-9.5	7.5-10.5'	10.5-11.5'	15-16'
Test Site ID		TH22-37	TH22-37	TH22-37	TH22-37	TH22-37	TH22-37
Field No.		FS-203	FS-203 & FS-204	FS-205	FS-205 & FS-206	FS-207	FS-208
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/21/2022	9/21/2022	9/21/2022	9/21/2022	9/21/2022	9/21/2022
Lab No.		2022A-3404	2022A-3405	2022A-3406	2022A-3407	2022A-3408	2022A-3409
Percent Passing Sieve Size	3"						
	2"						
	1"						
	3/4"						
	1/2"		100				
	3/8"		100		100		
	#4		100		99		
	#10		99		98		
	#40		98		95		
	#100		95		91		
	#200		92.9		89.5		
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	45 / 22 / 23	/ /	/ /
Sample Prep					Dry		
Nat Moist / Organic		24.1 /	/	34.5 /	/	7.5 /	4.7 /
% Grvl / Snd / Fines		/ /	0 / 7 / 93	/ /	1 / 9 / 90	/ /	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		15-21'	20-21'	2.5-3'	5-5.5'	7.5-8.5'	10-10.5'
Test Site ID		TH22-37	TH22-37	TH22-38	TH22-38	TH22-38	TH22-38
Field No.		FS-208 & FS-209	FS-209	FS-210	FS-211	FS-212	FS-213
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/21/2022	9/21/2022	9/21/2022	9/21/2022	9/21/2022	9/21/2022
Lab No.		2022A-3410	2022A-3411	2022A-3412	2022A-3413	2022A-3414	2022A-3415
Percent Passing Sieve Size	3"						
	2"						
	1"	98		100	82	97	93
	3/4"	96		80	65	91	83
	1/2"	91		73	49	79	70
	3/8"	85		67	45	71	63
	#4	73		54	34	53	49
	#10	62		43	24	41	38
	#40	37		24	13	18	20
	#100	9		12	7	8	11
	#200	6		8.8	5.5	6	8.2
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		/	3.5 /	2.7 /	1.8 /	2.5 /	1.6 /
% Grvl / Snd / Fines		27 / 67 / 6	/ /	46 / 45 / 9	66 / 28 / 6	47 / 47 / 6	51 / 41 / 8
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		15-15.5'	20-21'	2.5-3.5'	7.5-9'	7.5-9'	10-11'
Test Site ID		TH22-38	TH22-38	TH22-39	TH22-39	TH22-39	TH22-39
Field No.		FS-214	FS-215	FS-216	FS-218	FS-217 & FS-218	FS-219
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/21/2022	9/21/2022	9/21/2022	9/21/2022	9/21/2022	9/21/2022
Lab No.		2022A-3416	2022A-3417	2022A-3418	2022A-3419	2022A-3420	2022A-3421
Percent Passing Sieve Size	3"						
	2"						
	1"	90					
	3/4"	84				100	100
	1/2"	79				99	96
	3/8"	73	100	100		97	94
	#4	62	100	98		95	89
	#10	53	99	96		92	85
	#40	23	98	91		85	77
	#100	10	67	71		66	60
	#200	7.5	21.9	54.6		54.3	50.2
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		/	/	16.2 /	11.1 /	/	9.6 /
% Grvl / Snd / Fines		38 / 54 / 8	0 / 78 / 22	2 / 43 / 55	/ /	5 / 41 / 54	11 / 39 / 50
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		15-17'	2.5-3.5'	5-6'	7.5-8.5'	10-10.5'	7.5-10.5'
Test Site ID		TH22-39	TH22-40	TH22-40	TH22-40	TH22-40	TH22-40
Field No.		FS-220	FS-222	FS-223	FS-224	FS-225	FS-224 & FS-225
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/21/2022	9/26/2022	9/26/2022	9/26/2022	9/26/2022	9/26/2022
Lab No.		2022A-3422	2022A-3423	2022A-3424	2022A-3425	2022A-3426	2022A-3427
Percent Passing Sieve Size	3"						
	2"						
	1"	100		91			95
	3/4"	98	100	87			93
	1/2"	95	97	75			85
	3/8"	94	95	71			80
	#4	90	91	60			67
	#10	86	86	49			52
	#40	80	68	26			25
	#100	65	31	15			10
	#200	56.5	24.6	10.8			6.6
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		/	10.3 /	2.6 /	3.4 /	3.1 /	/
% Grvl / Snd / Fines		10 / 33 / 57	9 / 66 / 25	40 / 49 / 11	/ /	/ /	33 / 60 / 7
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		15-21'	2.5-4'	5-6'	2.5-6'	7.5-12'	7.5-8.5'
Test Site ID		TH22-40	TH22-41	TH22-41	TH22-41	TH22-41	TH22-41
Field No.		FS-226 & FS-227	FS-228	FS-229	FS-228 & FS-229	FS-230 & FS-231	FS-230
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/26/2022	9/27/2022	9/27/2022	9/27/2022	9/27/2022	9/27/2022
Lab No.		2022A-3428	2022A-3429	2022A-3430	2022A-3431	2022A-3432	2022A-3433
Percent Passing Sieve Size	3"						
	2"						
	1"	95				100	
	3/4"	90			100	98	
	1/2"	84			98	95	
	3/8"	80			96	93	
	#4	67			92	87	
	#10	56			88	82	
	#40	38			77	73	
	#100	10			58	54	
	#200	6.2			46.6	43.8	
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		/	23.1 / 3.5	35 / 6.5	/	/	13.1 /
% Grvl / Snd / Fines		33 / 61 / 6	/ /	/ /	8 / 45 / 47	13 / 43 / 44	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		10-12'	20-22'	2.5-3'	7.5-9'	5-9'	10-17'
Test Site ID		TH22-41	TH22-41	TH22-42	TH22-42	TH22-42	TH22-42
Field No.		FS-231	FS-232	FS-233	FS-235	FS-234 & FS-235	FS-236 & FS-237
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/27/2022	9/27/2022	9/27/2022	9/27/2022	9/27/2022	9/27/2022
Lab No.		2022A-3434	2022A-3435	2022A-3436	2022A-3437	2022A-3438	2022A-3439
Percent Passing Sieve Size	3"						
	2"						
	1"					100	
	3/4"			100		98	
	1/2"			93		95	100
	3/8"			80		91	100
	#4			61		76	98
	#10			46		74	98
	#40			20		67	97
	#100			11		50	82
	#200			8.1		37.6	58.5
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		10.1 /	14.9 / 1.1	3.6 /	11.2 /	/	/
% Grvl / Snd / Fines		/ /	/ /	39 / 53 / 8	/ /	24 / 38 / 38	2 / 39 / 59
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		15-17'	2.5-3'	5-6.5'	7.5-9'	10-11.5'	7.5-11.5'
Test Site ID		TH22-42	TH22-43	TH22-43	TH22-43	TH22-43	TH22-43
Field No.		FS-237	FS-239	FS-240	FS-241	FS-242	FS-241 & FS-242
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/27/2022	9/27/2022	9/27/2022	9/27/2022	9/27/2022	9/27/2022
Lab No.		2022A-3440	2022A-3441	2022A-3442	2022A-3455	2022A-3456	2022A-3457
Percent Passing Sieve Size	3"						
	2"						
	1"			100			
	3/4"			93			100
	1/2"			89			99
	3/8"			86			98
	#4			81			95
	#10			76			93
	#40			66			81
	#100			45			35
	#200			35			19
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		6.2 /	3.1 /	9.1 /	10.8 /	12.5 /	/
% Grvl / Snd / Fines		/ /	/ /	19 / 46 / 35	/ /	/ /	5 / 76 / 19
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		15-21'	15-17'	2.5-3'	5-6.5'	7.5-9'	5-9'
Test Site ID		TH22-43	TH22-43	TH22-44	TH22-44	TH22-44	TH22-44
Field No.		FS-243 & FS-244	FS-243	FS-245	FS-246	FS-247	FS-246 & FS-247
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/27/2022	9/27/2022	9/27/2022	9/27/2022	9/27/2022	9/27/2022
Lab No.		2022A-3458	2022A-3459	2022A-3460	2022A-3461	2022A-3462	2022A-3463
Percent Passing Sieve Size	3"						
	2"						
	1"	100					
	3/4"	99					
	1/2"	93					
	3/8"	89					100
	#4	77					100
	#10	75					
	#40	66					98
	#100	43					60
	#200	30.8					19.6
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		/	9.5 /	12.1 /	11.3 /	8.7 /	/
% Grvl / Snd / Fines		23 / 46 / 31	/ /	/ /	/ /	/ /	0 / 80 / 20
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		10-17'	15-17'	20-22'	2.5-3.5'	5-6'	10-11
Test Site ID		TH22-44	TH22-44	TH22-44	TH22-45	TH22-45	TH22-45
Field No.		FS-248 & FS-249	FS-249	FS-250	FS-251	FS-252	FS-254
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/27/2022	9/27/2022	9/27/2022	9/28/2022	9/28/2022	9/28/2022
Lab No.		2022A-3464	2022A-3465	2022A-3466	2022A-3467	2022A-3468	2022A-3469
Percent Passing Sieve Size	3"						
	2"						
	1"						
	3/4"					100	
	1/2"	100			100	99	
	3/8"	100			99	97	
	#4	100			96	94	
	#10	99			92	91	
	#40	98			64	76	
	#100	63			18	44	
	#200	20.8			13.4	35.6	
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		/	6.4 /	8.8 /	/	11.1 /	14.2 /
% Grvl / Snd / Fines		0 / 79 / 21	/ /	/ /	4 / 83 / 13	6 / 58 / 36	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		7.5-11'	15-17'	20-22'	2.5-3.5'	5-6'	7.5-8.5'
Test Site ID		TH22-45	TH22-45	TH22-45	TH22-46	TH22-46	TH22-46
Field No.		FS-253 & FS-254	FS-255	FS-256	FS-257	FS-258	FS-259
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/28/2022	9/28/2022	9/28/2022	9/28/2022	9/28/2022	9/28/2022
Lab No.		2022A-3470	2022A-3471	2022A-3472	2022A-3473	2022A-3474	2022A-3475
Percent Passing Sieve Size	3"						
	2"						
	1"	100			100	100	100
	3/4"	99			97	97	97
	1/2"	98			91	92	93
	3/8"	96			88	89	88
	#4	90			78	81	80
	#10	88			68	74	71
	#40	69			49	57	45
	#100	30			21	28	15
	#200	22.5			15.8	20.2	10.4
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		/	26.2 / 4	11.6 /	5.2 /	8.5 /	5.1 /
% Grvl / Snd / Fines		10 / 67 / 23	/ /	/ /	22 / 62 / 16	19 / 61 / 20	20 / 70 / 10
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		15-17'	10-17'	2.5-3.5'	5-6'	10-10.5'	7.5-10.5'
Test Site ID		TH22-46	TH22-46	TH22-47	TH22-47	TH22-47	TH22-47
Field No.		FS-261	FS-260 & FS-261	FS-262	FS-263	FS-265	FS-264 & FS-265
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/28/2022	9/28/2022	9/28/2022	9/28/2022	9/28/2022	9/28/2022
Lab No.		2022A-3476	2022A-3477	2022A-3478	2022A-3479	2022A-3480	2022A-3481
Percent Passing Sieve Size	3"						
	2"						
	1"		100	100	100		100
	3/4"		98	95	93		98
	1/2"		91	87	89		92
	3/8"		85	81	80		87
	#4		73	69	65		74
	#10		68	54	52		59
	#40		55	32	35		15
	#100		25	15	21		5
	#200		24.1	10.2	16.1		3.5
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		12.3 /	/	3.8 /	14.8 /	3.2 /	/
% Grvl / Snd / Fines		/ /	27 / 49 / 24	31 / 59 / 10	35 / 49 / 16	/ /	26 / 70 / 4
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		10.5-11'	15-15.5'	2.5-3.5'	5-6'	5-11.5'	20-21.5'
Test Site ID		TH22-47	TH22-47	TH22-48	TH22-48	TH22-48	TH22-48
Field No.		FS-266	FS-267	FS-268	FS-269	FS-269, FS-270 & FS-271	FS-272
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/28/2022	9/28/2022	9/28/2022	9/28/2022	9/28/2022	9/28/2022
Lab No.		2022A-3482	2022A-3483	2022A-3484	2022A-3485	2022A-3486	2022A-3487
Percent Passing Sieve Size	3"						
	2"						
	1"		100	100		100	
	3/4"		60	98		99	
	1/2"		60	90		96	
	3/8"		57	83		94	
	#4		45	73		89	
	#10		36	60		84	
	#40		20	25		51	
	#100		10	8		7	
	#200		7.1	5.8		1.5	
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		11.6 /	2.7 /	3.1 /	3.4 /	/	3.5 /
% Grvl / Snd / Fines		/ /	55 / 38 / 7	27 / 67 / 6	/ /	11 / 87 / 2	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		2.5-4'	7.5-9'	2.5-9'	10-16'	15-16'	2.5-4
Test Site ID		TH22-49	TH22-49	TH22-49	TH22-49	TH22-49	TH22-50
Field No.		FS-273	FS-275	FS-273, FS-274 & FS-275	FS-276 & FS-277	FS-277	FS-279
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/29/2022	9/29/2022	9/29/2022	9/29/2022	9/29/2022	9/29/2022
Lab No.		2022A-3488	2022A-3489	2022A-3490	2022A-3491	2022A-3492	2022A-3493
Percent Passing Sieve Size	3"						
	2"						
	1"						
	3/4"				100		
	1/2"				100		
	3/8"			100	99		
	#4			100	95		
	#10			99	89		
	#40			79	62		
	#100			7	8		
	#200			3.3	3.5		
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		4.2 /	3.5 /	/	/	2 /	6.8 /
% Grvl / Snd / Fines		/ /	/ /	0 / 97 / 3	5 / 91 / 4	/ /	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		5-6.5'	2.5-6.5'	7.5-8.5'	15-15.5'	2.5-3'	5-5.5'
Test Site ID		TH22-50	TH22-50	TH22-50	TH22-50	TH22-51	TH22-51
Field No.		FS-280	FS-279 & FS-280	FS-281	FS-282	FS-283	FS-284
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/29/2022	9/29/2022	9/29/2022	9/29/2022	9/29/2022	9/29/2022
Lab No.		2022A-3494	2022A-3495	2022A-3496	2022A-3497	2022A-3498	2022A-3499
Percent Passing Sieve Size	3"						
	2"						
	1"		99	100	100		
	3/4"		97	75	91		
	1/2"		90	58	79		
	3/8"		87	53	71		
	#4		81	43	54		
	#10		80	34	39		
	#40		75	22	24		
	#100		45	14	10		
	#200		27.8	11.1	6.8		
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		16.2 /	/	4.5 /	2.5 /	9.3 /	16 /
% Grvl / Snd / Fines		/ /	19 / 53 / 28	57 / 32 / 11	46 / 47 / 7	/ /	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		2.5-5.5'	7.5-9'	15-16'	15-21.5'	2.5-3.5'	5-6'
Test Site ID		TH22-51	TH22-51	TH22-51	TH22-51	TH22-52	TH22-52
Field No.		FS-283 & FS-284	FS-285	FS-286	FS-286 & FS-287	FS-288	FS-289
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/29/2022	9/29/2022	9/29/2022	9/29/2022	9/29/2022	9/29/2022
Lab No.		2022A-3500	2022A-3501	2022A-3502	2022A-3503	2022A-3504	2022A-3505
Percent Passing Sieve Size	3"						
	2"						
	1"	100					
	3/4"	89			100		
	1/2"	86	100		99		
	3/8"	82	100		98		
	#4	75	99		96		
	#10	68	99		94		
	#40	57	95		88		
	#100	48	87		72		
	#200	42	79.4		63		
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		/	/	11.5 /	/	16.1 / 2	13.3 / 2.1
% Grvl / Snd / Fines		25 / 33 / 42	1 / 20 / 79	/ /	4 / 33 / 63	/ /	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		2.5-6'	15-17'	20-21'	2.5-3.5'	5-6.5'	7.5-9'
Test Site ID		TH22-52	TH22-52	TH22-52	TH22-53	TH22-53	TH22-53
Field No.		FS-288 & FS-289	FS-290	FS-291	FS-292	FS-293	FS-294
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/29/2022	9/29/2022	9/29/2022	9/30/2022	9/30/2022	9/30/2022
Lab No.		2022A-3506	2022A-3507	2022A-3508	2022A-3509	2022A-3510	2022A-3511
Percent Passing Sieve Size	3"						
	2"						
	1"		100		100	100	
	3/4"	100	98		94	96	
	1/2"	96	98		87	96	
	3/8"	92	97		82	94	
	#4	87	97		74	93	
	#10	84	96	100	68	92	
	#40	79	93	98	42	86	
	#100	70	86	48	20	51	
	#200	63.3	81.6	38.5	16.1	38.9	
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		/	/	/	6.3 /	20.1 / 3	31.8 / 11.3
% Grvl / Snd / Fines		13 / 24 / 63	3 / 15 / 82	0 / 61 / 39	26 / 58 / 16	7 / 54 / 39	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		10-11.5'	15-16.5'	20-20.5'	2.5-4'	5-6'	6-6.5'
Test Site ID		TH22-53	TH22-53	TH22-53	TH22-54	TH22-54	TH22-54
Field No.		FS-295	FS-296	FS-297	FS-298	FS-299	FS-300
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/30/2022	9/30/2022	9/30/2022	9/30/2022	9/30/2022	9/30/2022
Lab No.		2022A-3512	2022A-3513	2022A-3514	2022A-3515	2022A-3516	2022A-3517
Percent Passing Sieve Size	3"						
	2"						
	1"		100	100			
	3/4"		98	85			
	1/2"		95	74			
	3/8"		92	67			
	#4		86	54			
	#10	100	79	40			
	#40	91	40	19			
	#100	79	10	11			
	#200	70.5	7.7	8.5			
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		14.9 /	/	/	16.6 /	17.4 /	15.2 /
% Grvl / Snd / Fines		0 / 29 / 71	14 / 78 / 8	46 / 45 / 9	/ /	/ /	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		2.5-6'	7.5-11'	10-11'	20-22'	15-22'	2.5-3'
Test Site ID		TH22-54	TH22-54	TH22-54	TH22-54	TH22-54	TH22-55
Field No.		FS-298 & FS-299	FS-301 & FS-302	FS-302	FS-304	FS-303 & FS-304	FS-305
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		9/30/2022	9/30/2022	9/30/2022	9/30/2022	9/30/2022	10/1/2022
Lab No.		2022A-3518	2022A-3519	2022A-3520	2022A-3521	2022A-3522	2022A-3523
Percent Passing Sieve Size	3"						
	2"						
	1"	100	100				
	3/4"	99	99				
	1/2"	96	99			100	
	3/8"	96	98			100	
	#4	95	96			99	
	#10	93	94			98	
	#40	75	88			95	
	#100	13	72			85	
	#200	5.9	59.6			75.1	
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		/	/	17.2 /	16.1 /	/	7.1 /
% Grvl / Snd / Fines		5 / 89 / 6	4 / 36 / 60	/ /	/ /	1 / 24 / 75	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		5-6'	5-8.5'	10-11'	15-16.5'	20-21.5'	2.5-3.5'
Test Site ID		TH22-55	TH22-55	TH22-55	TH22-55	TH22-55	TH22-56
Field No.		FS-306	FS-306 & FS-307	FS-308	FS-309	FS-310	FS-311
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		10/1/2022	10/1/2022	10/1/2022	10/1/2022	10/1/2022	10/1/2022
Lab No.		2022A-3524	2022A-3525	2022A-3526	2022A-3527	2022A-3528	2022A-3529
Percent Passing Sieve Size	3"						
	2"						
	1"		100	100	100		
	3/4"		90	98	94	100	100
	1/2"		83	90	91	96	98
	3/8"		81	86	89	94	98
	#4		73	76	81	88	96
	#10		67	66	75	82	94
	#40		55	49	63	65	80
	#100		39	28	39	26	34
	#200		30.1	20.8	29.9	19.8	23
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		8.9 /	/	2.4 /	/	7.6 /	6.1 /
% Grvl / Snd / Fines		/ /	27 / 43 / 30	24 / 55 / 21	19 / 51 / 30	12 / 68 / 20	4 / 73 / 23
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		5-6'	7.5-9'	10-11.5'	15-17'	15-21.5'	2.5-5.5'
Test Site ID		TH22-56	TH22-56	TH22-56	TH22-56	TH22-56	TH22-57
Field No.		FS-312	FS-313	FS-314	FS-315	FS-315 & FS-316	FS-317 & FS-318
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		10/1/2022	10/1/2022	10/1/2022	10/1/2022	10/1/2022	10/1/2022
Lab No.		2022A-3530	2022A-3531	2022A-3532	2022A-3533	2022A-3534	2022A-3535
Percent Passing Sieve Size	3"						
	2"						
	1"	100				100	100
	3/4"	90	100			95	88
	1/2"	88	98			94	85
	3/8"	86	97			93	85
	#4	80	95	100		92	80
	#10	76	94	99		90	74
	#40	66	90	88		86	63
	#100	44	67	32		77	47
	#200	26.3	52.7	21.7		69.4	36.7
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		6 /	/	8.6 /	17.6 /	/	/
% Grvl / Snd / Fines		20 / 54 / 26	5 / 42 / 53	0 / 78 / 22	/ /	8 / 23 / 69	20 / 43 / 37
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		2.5-4'	5-5.5'	7.5-9'	15-17'	20-22'	2.5-4'
Test Site ID		TH22-57	TH22-57	TH22-57	TH22-57	TH22-57	TH22-58
Field No.		FS-317	FS-318	FS-319	FS-320	FS-321	FS-322
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		10/1/2022	10/1/2022	10/1/2022	10/1/2022	10/1/2022	10/1/2022
Lab No.		2022A-3536	2022A-3537	2022A-3538	2022A-3539	2022A-3550	2022A-3551
Percent Passing Sieve Size	3"						
	2"						
	1"			100			
	3/4"			94	100		
	1/2"			92	96		
	3/8"			92	96		
	#4			90	93		
	#10			86	91		
	#40			77	84		100
	#100			61	65		97
	#200			48.5	52		69.7
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		10.2 / 2.1	19.5 / 5.8	21.3 /	/	14.2 /	22.1 /
% Grvl / Snd / Fines		/ /	/ /	10 / 41 / 49	7 / 41 / 52	/ /	0 / 30 / 70
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		5-7'	7.5-9'	10-11.5'	7.5-11.5'	15-22'	2.5-4.5'
Test Site ID		TH22-58	TH22-58	TH22-58	TH22-58	TH22-58	TH22-59
Field No.		FS-323	FS-324	FS-325	FS-324 & FS-325	FS-326 & FS-327	FS-328
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		10/1/2022	10/1/2022	10/1/2022	10/1/2022	10/1/2022	10/2/2022
Lab No.		2022A-3552	2022A-3553	2022A-3554	2022A-3555	2022A-3556	2022A-3557
Percent Passing Sieve Size	3"						
	2"						
	1"						
	3/4"				100	100	
	1/2"				98	100	
	3/8"				96	99	
	#4				93	94	
	#10				93	93	
	#40	100			93	91	
	#100	65			84	87	
	#200	17.7			48.3	84.3	
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		9.1 /	17.7 /	12.7 /	/	/	34.7 / 1.6
% Grvl / Snd / Fines		0 / 82 / 18	/ /	/ /	7 / 45 / 48	6 / 10 / 84	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		5-7'	2.5-7'	7.5-9.5'	10-12	15.5-16.5'	15.5-21.5'
Test Site ID		TH22-59	TH22-59	TH22-59	TH22-59	TH22-59	TH22-59
Field No.		FS-329	FS-328 & FS-329	FS-330	FS-331	FS-332	FS-332 & FS-333
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		10/2/2022	10/2/2022	10/2/2022	10/2/2022	10/2/2022	10/2/2022
Lab No.		2022A-3558	2022A-3559	2022A-3560	2022A-3561	2022A-3562	2022A-3563
Percent Passing Sieve Size	3"						
	2"						
	1"				100		
	3/4"				96		100
	1/2"				95		100
	3/8"				94		99
	#4				90		99
	#10		100		83		99
	#40		96		71		88
	#100		91		58		19
	#200		87.8		50.4		8.3
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		33.6 /	/	25.3 /	13.8 /	6.9 /	/
% Grvl / Snd / Fines		/ /	0 / 12 / 88	/ /	10 / 40 / 50	/ /	1 / 91 / 8
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		2.5-3.5'	7.5-9	10-11.5'	15-22'	15-17'	2.5-7'
Test Site ID		TH22-60	TH22-60	TH22-60	TH22-60	TH22-60	TH22-61
Field No.		FS-334	FS-335	FS-336	FS-338 & FS-339	FS-337	FS-339 & FS-340
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		10/2/2022	10/2/2022	10/2/2022	10/2/2022	10/2/2022	10/2/2022
Lab No.		2022A-3564	2022A-3565	2022A-3566	2022A-3567	2022A-3569	2022A-3568
Percent Passing Sieve Size	3"						
	2"						
	1"	100	100				98
	3/4"	93	98		100		97
	1/2"	88	97	100	99		96
	3/8"	85	96	100	98		95
	#4	77	92	99	97		89
	#10	69	89	99	95		86
	#40	54	80	97	89		78
	#100	41	56	91	74		61
	#200	35	42.8	82	66		51.7
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		11.3 /	10.5 /	/	/	17.1 /	/
% Grvl / Snd / Fines		23 / 42 / 35	8 / 49 / 43	1 / 17 / 82	3 / 31 / 66	/ /	11 / 37 / 52
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		2.5-3.5'	5-7'	7.5-9'	10-11.5'	7.5-11.5'	15-22'
Test Site ID		TH22-61	TH22-61	TH22-61	TH22-61	TH22-61	TH22-61
Field No.		FS-339	FS-340	FS-341	FS-342	FS-341 & FS-342	FS-343 & FS-344
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		10/2/2022	10/2/2022	10/2/2022	10/2/2022	10/2/2022	10/2/2022
Lab No.		2022A-3570	2022A-3571	2022A-3572	2022A-3573	2022A-3574	2022A-3575
Percent Passing Sieve Size	3"						
	2"						
	1"					100	100
	3/4"					99	99
	1/2"					92	97
	3/8"					90	96
	#4					83	90
	#10					78	88
	#40					66	82
	#100					49	70
	#200					38.6	60
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		15.8 /	12.3 /	10.4 /	10.9 /	/	/
% Grvl / Snd / Fines		/ /	/ /	/ /	/ /	17 / 44 / 39	10 / 30 / 60
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		15-17'	2.5-3.5'	5-6'	7.5-8.5'	5-8.5'	10-11.5'
Test Site ID		TH22-61	TH22-62	TH22-62	TH22-62	TH22-62	TH22-62
Field No.		FS-343	FS-345	FS-346	FS-347	FS-346 & FS-347	FS-348
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		10/2/2022	10/2/2022	10/2/2022	10/2/2022	10/2/2022	10/2/2022
Lab No.		2022A-3576	2022A-3577	2022A-3578	2022A-3579	2022A-3580	2022A-3581
Percent Passing Sieve Size	3"						
	2"						
	1"		100				100
	3/4"		98			100	93
	1/2"		97			93	88
	3/8"		94			89	86
	#4		89			79	78
	#10		84			71	70
	#40		70			57	56
	#100		46			39	36
	#200		37			31.6	28.2
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		14.7 /	10.6 /	5.3 /	10.5 /	/	7.1 /
% Grvl / Snd / Fines		/ /	11 / 52 / 37	/ /	/ /	21 / 47 / 32	22 / 50 / 28
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		15-16.5'	20.5-22'	25-27'	2.5-3.5'	5-6	2.5-6'
Test Site ID		TH22-62	TH22-62	TH22-62	TH22-63	TH22-63	TH22-63
Field No.		FS-349	FS-350	FS-351	FS-352	FS-353	FS-352 & FS-353
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		10/2/2022	10/2/2022	10/2/2022	10/3/2022	10/3/2022	10/3/2022
Lab No.		2022A-3582	2022A-3583	2022A-3584	2022A-3585	2022A-3586	2022A-3587
Percent Passing Sieve Size	3"						
	2"						
	1"						100
	3/4"	100		100			99
	1/2"	99		99			
	3/8"	98		99			99
	#4	97		98			98
	#10	94		96			97
	#40	88		89			61
	#100	66		57			5
	#200	54.1		56.5			2.7
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		13.1 /	98.4 / 35.1	17.3 / 1.2	4.4 /	4.2 /	/
% Grvl / Snd / Fines		3 / 43 / 54	/ /	2 / 41 / 57	/ /	/ /	2 / 95 / 3
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		7.5-8.5'	10-11.5'	15-16'	10-21.5'	2.5-4'	5-7'
Test Site ID		TH22-63	TH22-63	TH22-63	TH22-63	TH22-64	TH22-64
Field No.		FS-354	FS-355	FS-356	FS-355, FS-356 & FS-357	FS-358	FS-359
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		10/3/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022
Lab No.		2022A-3588	2022A-3589	2022A-3590	2022A-3591	2022A-3592	2022A-3593
Percent Passing Sieve Size	3"						
	2"						
	1"						
	3/4"				100		
	1/2"				99	100	100
	3/8"				98	100	99
	#4	100			97	100	98
	#10	99			95	99	97
	#40	87			61	92	92
	#100	42			10	66	75
	#200	28.4			3.7	52.4	64.3
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		12.1 /	3.4 /	4.5 /	/	19.8 /	20.1 /
% Grvl / Snd / Fines		0 / 72 / 28	/ /	/ /	3 / 93 / 4	0 / 48 / 52	2 / 34 / 64
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		7.5-9'	10-11.5'	7.5-11.5'	15-21.5'	15-16.5'	15-16.5'
Test Site ID		TH22-64	TH22-64	TH22-64	TH22-64	TH22-64	TH22-65
Field No.		FS-360	FS-361	FS-360 & FS-361	FS-362 & FS-363	FS-362	FS-364
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		10/3/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022
Lab No.		2022A-3594	2022A-3595	2022A-3596	2022A-3597	2022A-3598	2022A-3599
Percent Passing Sieve Size	3"						
	2"						
	1"				100		
	3/4"				99		
	1/2"				99		
	3/8"			100	98		
	#4			100	98		
	#10			99	96		
	#40			85	73		
	#100			11	9		
	#200			5.3	4		
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		6.1 /	9.4 /	/	/	3.8 /	14 /
% Grvl / Snd / Fines		/ /	/ /	0 / 95 / 5	2 / 94 / 4	/ /	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		20-21.5'	2-3'	4.5-5'	15-21.5'	2-5'	2.5-3.5'
Test Site ID		TH22-65	TH22-65	TH22-65	TH22-65	TH22-65	TH22-66
Field No.		FS-365	FS-366	FS-367	FS-364 & FS-365	FS-366 & FS-367	FS-368
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		10/3/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022
Lab No.		2022A-3600	2022A-3601	2022A-3602	2022A-3603	2022A-3604	2022A-3605
Percent Passing Sieve Size	3"						
	2"						
	1"				100	99	
	3/4"				98	95	
	1/2"				94	89	
	3/8"				91	85	
	#4				87	75	
	#10				81	63	
	#40				70	45	
	#100				46	28	
	#200				34.3	20.9	
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		7.8 /	6.9 /	7.7 /	/	/	8.2 /
% Grvl / Snd / Fines		/ /	/ /	/ /	13 / 53 / 34	25 / 54 / 21	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		5-6'	2.5-6'	7.5-11.5'	7.5-9.5'	10-11.5'	15-16'
Test Site ID		TH22-66	TH22-66	TH22-66	TH22-66	TH22-66	TH22-66
Field No.		FS-369	FS-368 & FS-369	FS-370 & FS-371	FS-370	FS-371	FS-372
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		10/3/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022	10/3/2022
Lab No.		2022A-3606	2022A-3607	2022A-3608	2022A-3609	2022A-3610	2022A-3611
Percent Passing Sieve Size	3"						
	2"						
	1"		100	98			
	3/4"		96	98			100
	1/2"		90	98			84
	3/8"		85	98			79
	#4		75	97			64
	#10		67	94			52
	#40		51	85			22
	#100		34	38			6
	#200		27	19.1			3.8
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		10.6 /	/	/	11 /	10.8 /	3.4 /
% Grvl / Snd / Fines		/ /	25 / 48 / 27	3 / 78 / 19	/ /	/ /	36 / 60 / 4
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		20-21'	2.5-4'	5-6'	7.5-9'	10-12'	15-16.5
Test Site ID		TH22-66	TH22-67	TH22-67	TH22-67	TH22-67	TH22-67
Field No.		FS-373	FS-374	FS-375	FS-376	FS-377	FS-378
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		10/3/2022	10/4/2022	10/4/2022	10/4/2022	10/4/2022	10/4/2022
Lab No.		2022A-3612	2022A-3613	2022A-3614	2022A-3615	2022A-3616	2022A-3617
Percent Passing Sieve Size	3"						
	2"						
	1"			100			
	3/4"	100		92			
	1/2"	98	100	89	100		
	3/8"	97	100	84	100		
	#4	97	99	81	100		100
	#10	96	99	77	96		100
	#40	90	94	64	73	99	92
	#100	72	81	44	64	57	15
	#200	51.4	71.5	37.1	55.5	26.3	5.3
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		/	28.5 / 3.2	25.9 / 4.4	18.1 / 1.5	11.7 /	/
% Grvl / Snd / Fines		3 / 46 / 51	1 / 27 / 72	19 / 44 / 37	0 / 44 / 56	0 / 74 / 26	0 / 95 / 5
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		20-21.5'	2.5-3.5'	7.5-8.5'	2.5-8.5'	15-21'	20-21'
Test Site ID		TH22-67	TH22-68	TH22-68	TH22-68	TH22-68	TH22-68
Field No.		FS-379	FS-380	FS-382	FS-380, FS-381 & FS-382	FS-383 & FS-384	FS-384
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		10/4/2022	10/4/2022	10/4/2022	10/4/2022	10/4/2022	10/4/2022
Lab No.		2022A-3618	2022A-3619	2022A-3620	2022A-3621	2022A-3622	2022A-3623
Percent Passing Sieve Size	3"						
	2"						
	1"				96	100	
	3/4"				92	84	
	1/2"				83	76	
	3/8"				78	71	
	#4				65	56	
	#10				52	40	
	#40				25	18	
	#100				11	7	
	#200				8.3	5.3	
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		15.3 /	2.8 /	2.5 /	/	/	2.2 /
% Grvl / Snd / Fines		/ /	/ /	/ /	35 / 57 / 8	44 / 51 / 5	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		2.5-3'	5-6'	7.5-8.5'	5-8.5'	10-11.5'	20-21'
Test Site ID		TH22-69	TH22-69	TH22-69	TH22-69	TH22-69	TH22-69
Field No.		FS-385	FS-386	FS-387	FS-386 & FS-387	FS-388	FS-390
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		10/4/2022	10/4/2022	10/4/2022	10/4/2022	10/4/2022	10/4/2022
Lab No.		2022A-3624	2022A-3625	2022A-3626	2022A-3627	2022A-3628	2022A-3629
Percent Passing Sieve Size	3"						
	2"						
	1"				100		
	3/4"				90	100	
	1/2"				87	99	
	3/8"				85	99	
	#4				78	98	
	#10				71	97	
	#40				39	49	
	#100				9	5	
	#200				6.9	3.3	
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		5.1 / 0.7	6.3 /	7.1 /	/	6.9 /	2.7 /
% Grvl / Snd / Fines		/ /	/ /	/ /	22 / 71 / 7	2 / 95 / 3	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		15-21'	2.5-3.5'	6-7'	7.5-9'	6-9'	10-11.5'
Test Site ID		TH22-69	TH22-70	TH22-70	TH22-70	TH22-70	TH22-70
Field No.		FS-389 & FS-390	FS-391	FS-392	FS-393	FS-392 & FS-393	FS-394
Submitted By		F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee	F. Plumlee
Date Sampled		10/4/2022	10/4/2022	10/4/2022	10/4/2022	10/4/2022	10/4/2022
Lab No.		2022A-3630	2022A-3631	2022A-3632	2022A-3633	2022A-3634	2022A-3635
Percent Passing Sieve Size	3"						
	2"						
	1"	100					
	3/4"	93					100
	1/2"	89				100	97
	3/8"	83				100	96
	#4	72				96	95
	#10	59				95	93
	#40	22				86	79
	#100	8				77	63
	#200	6				67.3	50.6
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		/	23.2 / 2.9	30 / 3.7	17.8 / 2.9	/	33 / 10.4
% Grvl / Snd / Fines		28 / 66 / 6	/ /	/ /	/ /	4 / 29 / 67	5 / 44 / 51
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

PRECONSTRUCTION SAMPLE SUMMARY

Project No. 130 Project Name Sterling Hwy Safety Corridor Imp MP 82.5-94

Station							
Offset (feet)							
Depth (feet)		15-16'	20-21.5'				
Test Site ID		TH22-70	TH22-70				
Field No.		FS-395	FS-396				
Submitted By		F. Plumlee	F. Plumlee				
Date Sampled		10/4/2022	10/4/2022				
Lab No.		2022A-3636	2022A-3637				
Percent Passing Sieve Size	3"						
	2"						
	1"	100					
	3/4"	83					
	1/2"	75	100				
	3/8"	66	100				
	#4	51	97				
	#10	37	91				
	#40	15	43				
	#100	7	9				
	#200	5.3	3.6				
	.02mm						
	.002mm						
FSV Class							
AASHTO / DOTTSD		/	/	/	/	/	/
Unified Class							
USCSD Class							
Atterburg LL/PL/PI		/ /	/ /	/ /	/ /	/ /	/ /
Sample Prep							
Nat Moist / Organic		2.7 /	5.2 /	/	/	/	/
% Grvl / Snd / Fines		49 / 46 / 5	3 / 93 / 4	/ /	/ /	/ /	/ /
Opt Mois/Max Dry Den		/	/	/	/	/	/
SpG Bulk Coarse/Fine		/	/	/	/	/	/
SpG SSD Coarse/Fine		/	/	/	/	/	/
SpG App Coarse/Fine		/	/	/	/	/	/
Absorption Coarse/Fine		/	/	/	/	/	/
Degradation Value							
LA / LA Low / Nordic		/ /	/ /	/ /	/ /	/ /	/ /
Sulfate Soundness C/F		/	/	/	/	/	/
Comment:							

Gradation tests based on minus 3" material.

APPENDIX D

PHOTO LOG

TH22-01

TH22-07

TH22-13

TH22-24

TH22-24

TH22-28

TH22-41

TH22-57

TH22-64

TH22-69