



# ALABAMA DEPARTMENT OF TRANSPORTATION

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## Bureau of Materials and Tests

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*Kay Ivey*  
Governor

*John R. Cooper*  
Transportation Director

November 13, 2017

### MEMORANDUM

TO: Whom It May Concern

From: **Ms. Kaye Chancellor Davis, P.E.**  
ALDOT State Geotechnical Engineer

Subject: **Historical Subsurface Information**  
I-10 Mobile River Bridge  
ALDOT PE Project No.: DPI-0030(005)  
Mobile, Mobile County, Alabama

The Alabama Department of Transportation (ALDOT) is pleased to provide historical information along the project alignment in support of the Mobile River Bridge project in Mobile and Baldwin Counties, Alabama. The attached **Table 1: Historical Record Index (HRI)** provides information pertaining to the specific historical project along with the related file folder where the specific information is located. In addition, plan view aerials are incorporated with identification numbers corresponding with the HRI.

The historical information contains the geotechnical reports and pile driving records, if applicable, for projects which have been previously constructed. Only soil laboratory test results, boring logs and boring location plans are provided for projects which have not been constructed.

Standard Penetration Test (SPT) borings were performed in general accordance with AASHTO T-206 guidelines, however deviations in the SPT sampling protocol occurred on some of the projects. On those borings where hollow stem auger drilling was used in sands below the water table, unbalanced hydraulic head within the hollow stem augers often resulted in sand flowing into the augers. When this occurred, the SPT sampler was jetted to the test depth and then driven the 18 inches to obtain the "N" value blow counts. The SPT sampling in such borings was not performed in accordance with AASHTO T-206 and the "N" values so obtained may have been influenced by the drilling procedure.

## **LIMITATIONS**

This Historical Subsurface Information has been collected for the exclusive use of the specific project discussed herein. The observations from field sample recovery, laboratory examination of samples and testing, and computed data analysis, which are presented in the reports, should be considered preliminary investigation and are subject to change upon the acquisition of additional data during the final investigation for the final design. Additional subsurface exploration including borings and laboratory testing for the purposes of evaluating cut slopes, embankment slopes, embankment settlements, retaining walls, and bridge foundation types and capacities will be required for final design and applicable to the specific final design layout. The Geotechnical Engineer of Record for the project must review the data submitted in this report and develop their own interpretation of the testing results as they apply to design.

**Attachments:**        *Table 1: Historical Record Index*

TABLE 1: HISTORICAL RECORD INDEX

MOBILE COUNTY

Folder Name	Identification Number	Description of Site	Documents Available	Project Number	Bin Number
R3	1001	Tensaw River	Bridge Foundation	F.I .-346(2)	8714
R3	1002	I-10 East Bound	Pile Driving Report	ITS-9601(401)	11931
	1003	Bay Bridge Rd Relocation from W of US-43 to Papermill Rd	Bridge Card and Pile Driving Record	ACNHF-7543 (13)	16435
R2	1004	I-10 West Tunnel Interchange	Bridge Card	I-10-1(16)26	10663 & 10664
R2	1005	I-10 Wallace Tunnel	Bridge Card	I-10-1(33)	10851
R3	1006	Bridge Replacement over Tensaw River	Bridge Foundation, Pile Driving Record & Bridge Card	BRF-7501(8)	16035
R3	1007	I-10 East Tunnel Interchange	Bridge Card and Pile Driving Record	I-10-1(34)27	10852, 10853, 10854, 10855, 11930
R3	1008	AUSTAL Pedestrian Tunnel	Boring Location Plan, Boring Logs and Lab Data	ST-049-000-007	N/A
R2	1009	I-10 Eastbound Water Street On-Ramp Closure and Texas Street Interchange	Soil Survey and Materials Report	ST-049-I10-004	N/A
R3	1010	I-10 EBR Bayway Signs	Boring Logs	IM-PE11 (905)	N/A
R1	1011	I-10 Texas Street	Boring Logs	I-IR-IDR-10-I(84)24	14757
R1	1012	I-10 Virginia Street	Boring Logs	I-IR-IDR-10-I(84)24	8961
R1	1013	I-10 Warren - Lawrence Street	Boring Logs	I-IR-IDR-10-I(84)24	9857
R1	1014	I-10 Tenn. Street and Illinois Central Gulf RR	Boring Logs	I-IR-IDR-10-I(84)24	
R1	1015	I-10 Broad Street	Boring Logs	I-IR-IDR-10-I(84)24	
R1	1016	Broad Street from I-10 to Baltimore Street	Boring Logs	ST-049-999-013	N/A
R2	1017	I-10 Interchange Modifications from Texas St. to West Tunnel Entrance	Boring Location Plan, Boring Logs and Soil Test Data Report with VW Groundwater Measurements	DPI-AL06(900)	N/A

BALDWIN COUNTY

Folder Name	Identification Number	Description of Site	Documents Available	Project Number	Bin Number
R6	2001	I-10 East Bound	Boring Logs	I-10-1 (35)28 PROP. A	11929
R6	2002	I-10 Spanish Fort to Loxley	Boring Logs	I-10-1(21)35	N/A
R6	2004	I-10 East Bound Ramp	Bridge Card	I-10-1(21) 35	9851
R6	2005	US-90	Foundation Report	I-10-1(18)54	10004
R6	2006	US-90 Northbound	Test Pile Records	S-635(5)'B'	10042
R6	2007	I-10 Spanish Fort to Loxley(Underpass Alabama 181)	Bridge Card, Foundation/Borings	I-10-1(21)35	9854
I-10 from SR-181 Eastward	2008	I-10 Spanish Fort to Loxley	Bridge Card, Foundation/Borings	I-10-1(21)	9855
I-10 from SR-181 Eastward	2009	I-10 Spanish Fort to Loxley(Underpass Alabama 181)	Bridge Card, Foundation/Borings	I-10-1(21)	9856
I-10 from SR-181 Eastward	2010	I-10 Spanish Fort to Loxley	Bridge Card, Foundation/Borings	I-10-1 (21)35 PROP. B	10170
I-10 from SR-181 Eastward	2011	I-10 Spanish Fort to Loxley	Bridge Card	I-10-1 (21)35 PROP. B	10171
I-10 from SR-181 Eastward	2012	I-10 Spanish Fort to Loxley	Foundation/Borings	I-10-1 (21)35 PROP. B	10172
I-10 from SR-181 Eastward	2013	I-10 Spanish Fort to Loxley	Bridge Card	I-10-1 (21)35 PROP. B	10173
I-10 from SR-181 Eastward	2014	over I-10 Spanish Fort to Loxley	Bridge Card	I-10-1(21)	10418
I-10 from SR-181 Eastward	2015	over I-10 Spanish Fort to Loxley	Bridge Card	I-10-1(21)	10419
I-10 from SR-181 Eastward	2016	I-10/SR-181 Interchange Modifications	Boring Logs for Soil Survey and Slope Study	IM-I010 (320)	N/A