

ANTON EMERYVILLE, LLC

1415 L Street, Suite 450, Sacramento, CA 95814
Office 916-400-2080

February 26, 2015

RECEIVED

By Alameda County Environmental Health at 9:16 am, Mar 13, 2015

Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Attention: Mr. Mark Detterman, Senior Hazardous Materials Specialist

Transmittal Letter
Environmental Considerations Associated with Geotechnical Investigation
6701 – 6707 Shellmound Street
Emeryville, California

Dear Mr. Detterman:

Submitted herewith for your review is *Environmental Considerations Associated with Geotechnical Investigation, 6701 – 6707 Shellmound Street, Emeryville, California* dated February 26, 2015, prepared by PES Environmental, Inc.

I declare, under penalty of perjury, that the information contained in the above-referenced report for the subject property are true and correct to the best of my knowledge.

Very truly yours,

ANTON EMERYVILLE, LLC



Rachel Green
Development Manager



February 26, 2015

1448.001.01.001

Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Attention: Mr. Mark Detterman

**Environmental Considerations Associated with Geotechnical Investigation
6701 – 6707 Shellmound Street
Emeryville, California**

Dear Mr. Detterman:

PES Environmental, Inc. (PES) has prepared this letter on behalf of Anton Emeryville, LLC (Anton) regarding the property located at 6701 – 6707 Shellmound Street, Emeryville, California (subject property or site). Anton is considering acquisition of the site and conducted a geotechnical investigation as part of their pre-acquisition due diligence. This letter provides an assessment of environmental considerations associated with the geotechnical investigation conducted at the site in January 2015 by EEI on behalf of Anton.

On January 7, 2015, EEI advanced five boreholes using a Cone Penetrometer Test (CPT) drill rig and two boreholes using a truck-mounted drill rig equipped with hollow-stem augers. A copy of the site plan with the drilling locations is attached. Copies of the boring logs and CPT soundings produced during the drilling are also attached.

Site Geology, Hydrogeology and Background Information

Based on the results of investigations performed on the subject property and in the vicinity, the site is underlain by imported fill material overlying deposits of native silts and clays known locally as Old Bay Mud. Beneath the Old Bay Mud deposits are deposits of stiffer sand, silts, and clays that likely represent alluvial deposits of the Temescal Formation (URS, 2005)¹. During the later part of the 1930s through the early to mid-1950s, the subject property and vicinity were filled in by non-native soils to create buildable land. The fill extends to the west of the site where the current I-80 and Ashby Avenue interchange exists. The fill material

¹ URS, 2005. Final Report, Geotechnical Characterization, 6701 Shellmound/Bay Street, Emeryville, California. October 7.

Mr. Mark Detterman
February 26, 2015
Page 2

generally consists of coarse-grained sands and gravels that contain varying amounts of fines, and fine-grained silts and clays. Debris fill² has been encountered throughout the site (PES, 2014)³.

Previous investigations have shown that the fill materials at the site and other similarly filled properties in the vicinity contain residual contamination with related impacts to shallow groundwater.

The fill material ranges from 10 to 19 feet thick. Fill material debris has been encountered throughout the site, but is generally most abundant on the western half of the site and at depths below approximately 8 to 10 feet bgs. Fine-grained soils have been encountered directly below the fill material. These soils generally consisted of very dark greenish gray to greenish gray clays and occasional silts that are soft to medium stiff. These soils represent Old Bay Mud deposits.

Groundwater was encountered at the site at approximately 11 to 13 feet below ground surface (bgs) in November 2013 (PES, 2014).

Geotechnical Investigation

EEI conducted their geotechnical investigation on January 7, 2015. A copy of the site plan with the boring locations and the boring logs and CPT soundings are attached.

During the geotechnical investigation conducted in January 2105, fill material was encountered in borings B-1 and B-2 at a depth of approximately 10 feet bgs. Old Bay Mud deposits were encountered beneath the fill material. Groundwater was encountered at approximately 10 feet bgs in borings B-1 and B-2. Soil cuttings were containerized in three 55-gallon drums and were stored temporarily on-site pending off-site disposal.

Prior to conducting the geotechnical investigation permits were obtained by EEI from Alameda County. Five CPT soundings (CPT-01A, -02A, -03, -04A, and -05a) were advanced to depths of approximately 13.5 to 50 feet bgs using a CPT hydraulic direct push drill rig. Upon completion of the logging, the CPT boreholes were tremie-grouted from the bottom of the borehole to the ground surface in accordance with the guidelines of Alameda County Health Services Division.

² Debris material includes brick, wood, concrete rubble, asphalt, metal debris, glass, fabric, and rubber.

³ PES, 2014. *Supplemental Subsurface Investigation Report, 6701, 6705, and 6707 Shellmound Street, Emeryville, California.* January 13.

Mr. Mark Detterman

February 26, 2015

Page 3

Boreholes B-1 and B-2 were drilled with a truck-mounted drill rig equipped with hollow-stem augers. The total depth of each borehole was 51.5 feet bgs. Soil samples were collected from relatively undisturbed soil beneath the lead auger using a Modified California Sampler or Standard Penetration Test sampler. Upon completion of the sampling, the boreholes were tremie-grouted from the bottom of the borehole to the ground surface in accordance with the guidelines of Alameda County Health Services Division.

The drummed soil cuttings were transported off-site for disposal on January 29, 2015, as non-RCRA hazardous waste under Uniform Hazardous Waste Manifest to U.S. Ecology, Nevada Operations in Beatty, Nevada. A copy of the waste disposal documentation is attached.

Assessment of Environmental Considerations

The geotechnical investigation was conducted under permit issued by Alameda County. Five CPT soundings were drilled to depths ranging from approximately 13.5 to 50 feet bgs using a CPT hydraulic direct push drill rig. CPT soundings are advanced using dual-cylinders and the outer cylinder acts as a casing to keep the borehole sealed thereby minimizing the potential for vertical communication of fluids or soil. Upon completion of the logging, the CPT boreholes were sealed from the bottom of the borehole to the ground surface as required by the permit.

Boreholes B-1 and B-2 were drilled with a truck-mounted drill rig equipped with hollow-stem augers. The total depth of each borehole was 51.5 feet bgs. During the drilling and soil sampling the hollow-stem augers were not removed from the borehole and therefore functioned as a casing which materially reduced the potential for vertical migration of fluids and soil. Upon completion of the sampling, the boreholes were sealed from the bottom of the borehole to the ground surface as required by the permit.

Based on the lithology in the boring logs, it appears the borings were terminated in the Old Bay Mud deposits and vertical conduits were not created through deeper units such as the Temescal formation. The entire geotechnical investigation was conducted in one day and the boreholes were sealed with auger flights or outer casing of the CPT rods; therefore, each boring was conducted over a short period of time and the augers and casing acted as a mechanism to minimize the potential for vertical migration of fluids or soil.

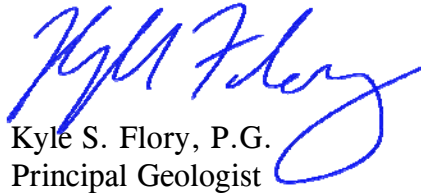
Based on our review of the geotechnical investigation work scope and the manner in which the work was conducted, our assessment concludes that impact to the environment as a result of the geotechnical investigation is minimal and further evaluation is not required and none is recommended at this time.

Should you require additional information or have questions concerning this letter please contact me at (415) 899-1600.

Mr. Mark Detterman
February 26, 2015
Page 4

Very truly yours,

PES ENVIRONMENTAL, INC.


Kyle S. Flory, P.G.
Principal Geologist



Attachment: Site Plan – Geotechnical Borehole Locations
 Boring Logs
 Waste Disposal Documentation

cc: Rachel Green – Anton

ATTACHMENTS





BOREHOLE LOG

Number:

B-1

Client:

Anton Development Co.

Sheet:

1 of 2

Location:

6701 Shellmound Street
Emeryville, California

Date Started:

1/7/2015

Date Finished:

1/7/2015

EEI Rep:

MH

Project No.:

ANT-72035.4

Drill Rig/Sampling Method:

Truck Mounted / 8" Hollow Stem Auger 140 lbs Auto Hammer

Borehole Diameter:

8-inch

SAMPLE LOG

BOREHOLE LOG

Bulk	Sample Type	Blows Per 6"	Dry Unit Wt. (pcf)	Moisture (%)	Depth In Feet	USCS Symbol	Graphic Log	Geologic Description (Soil Type, Color, Grain, Minor Soil Component, Moisture, Density, Odor, Etc.)
					1			8" A/C over 4" BASE
	MC	13 23 20			2	SC		FILL CLAYEY-SAND, dark brown to black, abundant gravels, moist, dense; trace debris
	MC	4 1 1		3				
	MC	3 3 4		4				
	MC	6 7 10		5				
					6	CL		CLAY, dark brown to dark grayish brown, some sand, moist to very moist, soft
	MC	3 3 4		7				
	MC	6 7 10		8				
					9	SP		BAY MUD DEPOSITS @ 9.5' SAND, gray, fine to medium grained with trace silt, poorly graded, moist to wet, medium dense
	MC	6 7 10		10				
	SPT	2 2 2		11				
	SPT	2 2 2		12				
	SPT	2 2 2		13				
	SPT	2 2 2		14				
					15	CL		@ 16' SAND becomes loose
	MC	5 6 9		16				
	MC	5 6 9		17				
	MC	5 6 9		18				
					19	CL		@ 20' No recovery with modified Cal Sampler; retrieved sample with SPT
	MC	5 6 9		20				
	MC	5 6 9		21				
	MC	5 6 9		22				
	MC	5 6 9		23				
	MC	5 6 9		24				
					25	CL		@ 21' CLAY, gray and light orange brown mottled, some sand, moist, stiff
	SPT	5 5 11		25				
	SPT	5 5 11		26				
	SPT	5 5 11		27				
	SPT	5 5 11		28				
	SPT	5 5 11		29				
					30	CL		@ 26' CLAY, light brown, light gray and orange mottled, very moist, very stiff
	MC	8 9 16		30				
	MC	8 9 16		31				@ 30' CLAY, grayish brown with iron staining, wet, very stiff

BOREHOLE LOG ANT-72035.4.GPJ EEI.GDT 1/8/15



BOREHOLE LOG

Number:

B-1

Client:

Anton Development Co.

Sheet:

2 of 2

Location:

6701 Shellmound Street
Emeryville, California

Date Started:

1/7/2015

Date Finished:

1/7/2015

EEI Rep:

MH

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8-inch

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BOREHOLE LOG

Bulk	Sample Type	Blows Per 6"	Dry Unit Wt. (pcf)	Moisture (%)	Depth In Feet	USCS Symbol	Graphic Log	Geologic Description (SoilType, Color, Grain, Minor Soil Component, Moisture, Density, Odor, Etc.)
	SPT	6 7 10			33 34 35 36 37 38 39	CL		@ 35' CLAY, gray, wet, very stiff; some decayed organics
	MC	9 15 30			40 41 42 43 44	SC		@ 40' CLAYEY-SAND, brown, medium to coarse grained, wet, dense
	SPT	9 10 10			45 46 47 48 49	CH		@ 45' CLAY, light gray, some coarse grained sand and shells, wet, very stiff
	MC	10 12 23			50 51			@ 50' CLAY becomes orange and grayish brown mottled, wet, very stiff
					52 53 54 55 56 57 58 59 60 61 62 63			<p>Total depth: 51.5-feet Groundwater encountered at approximately 10-feet MC=Modified California Sampler SPT=Standard Penetration Test</p> <p>Backfilled with 18ft³ of grout on 1/7/2014</p>

BOREHOLE LOG ANT-72035.4.GPJ EEI.GDT 1/8/15



BOREHOLE LOG

Number:

B-2

Client:

Anton Development Co.

Sheet:

1 of 2

Location:

6701 Shellmound Street
Emeryville, California

Date Started:

1/7/2015

Date Finished:

1/7/2015

EEI Rep:

MH

Project No.:

ANT-72035.4

Drill Rig/Sampling Method:

Truck Mounted / 8" Hollow Stem Auger 140 lbs Auto Hammer

Borehole Diameter:

8-inch

SAMPLE LOG

BOREHOLE LOG

Bulk	Sample Type	Blows Per 6"	Dry Unit Wt. (pcf)	Moisture (%)	Depth In Feet	USCS Symbol	Graphic Log	Geologic Description (SoilType, Color, Grain, Minor Soil Component, Moisture, Density, Odor, Etc.)
					1			FILL SILTY-SAND, dark brown to black, some clay and gravels, slightly moist, dense
	MC	17 28 26			2			
	MC	19 14 20			3			
	MC	22 23 29			4			
	MC	6 9 9			5	SW-SM		@ 5' Becomes medium dense
					6			
					7			
					8			
					9			@ 9' Becomes dense, wet
	MC	6 9 9			10			BAY MUD DEPOSITS @ 10' SAND, black, fine to coarse, some silt, poorly graded, medium dense, wet
					11			
					12	SP		
					13			
	SPT	4 5 9			14			
					15			@ 15' CLAYEY-SAND, gray, some clay, medium dense, saturated
					16			
					17			
	MC	9 12 16			18	SC-SM		
					19			
					20			
					21			@ 21' CLAY, gray, orange brown and black mottled, slightly moist, very stiff
					22			
					23	CL		
					24			
	SPT	4 5 5			25			
					26			@ 26' CLAY, grayish-brown, some fine sand, moist, stiff
					27			
					28	CL		
					29			
	MC	9 14 20			30			@ 30' CLAY, orange and grayish-brown mottled, moist, very stiff
					31	CL		

BOREHOLE LOG ANT-72035.4.GPJ EEI.GDT 1/8/15



BOREHOLE LOG

Number:

B-2

Client:

Anton Development Co.

Sheet:

2 of 2

Location:

6701 Shellmound Street
Emeryville, California

Date Started:

1/7/2015

Date Finished:

1/7/2015

EEI Rep:

MH

Project No.:

ANT-72035.4

Drill Rig/Sampling Method:

Truck Mounted / 8" Hollow Stem Auger 140 lbs Auto Hammer

Borehole Diameter:

8-inch

SAMPLE LOG

BOREHOLE LOG

Bulk	Sample Type	Blows Per 6"	Dry Unit Wt. (pcf)	Moisture (%)	Depth In Feet	USCS Symbol	Graphic Log	Geologic Description (SoilType, Color, Grain, Minor Soil Component, Moisture, Density, Odor, Etc.)
					33			@ 30' CLAY, orange and grayish-brown mottled, moist, very stiff
					34	CL		
	SPT	11 15 26			35			@ 35' SAND, gray and brown, fine to medium grained, poorly-graded, some silt, wet, dense
					36			
					37	SP		
					38			
	MC	13 29 50-5"			40			@ 40' CLAY, dark gray, very moist, hard
					41			
					42	CL		
					43			
	SPT	12 15 19			45			@ 45' CLAY, blue-gray with trace iron staining, moist, hard
					46			
					47	CL		
					48			
	MC	6 12 20			49			@ 49' CLAY, gray and orange brown mottled, some coarse sand and shell fragments, moist, very stiff
					50	CH		
					51			
					52			
					53			
					54			
					55			
					56			
					57			
					58			
					59			
					60			
					61			
					62			
					63			
<p>Total depth: 51.5-feet Groundwater encountered at approximately 10-feet MC=Modified California Sampler SPT=Standard Penetration Test</p> <p>Backfilled with 18ft³ of grout on 1/7/2014</p>								

BOREHOLE LOG ANT-72035.4.GPJ EEI.GDT 1/8/15



EEI

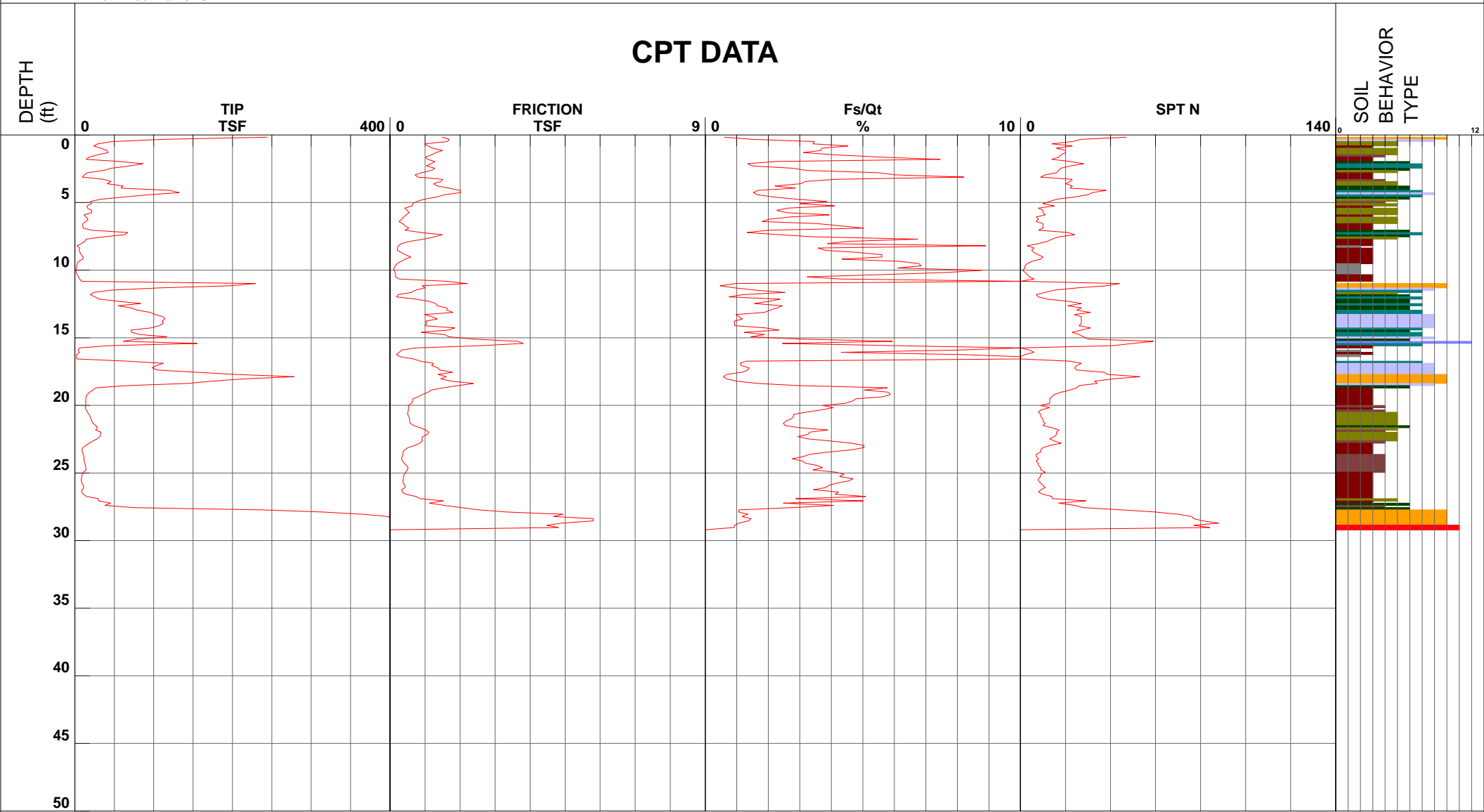
Project Emeryville
 Job Number ANT-72035-4
 Hole Number CPT-01A
 EST GW Depth During Test

Operator CB-BH
 Cone Number DDG1268
 Date and Time 1/7/2015 10:47:58 AM

Filename SDF(082).cpt
 GPS
 Maximum Depth 29.36 ft

Net Area Ratio .8

CPT DATA



- 1 - sensitive fine grained
- 2 - organic material
- 3 - clay
- 4 - silty clay to clay
- 5 - clayey silt to silty clay
- 6 - sandy silt to clayey silt
- 7 - silty sand to sandy silt
- 8 - sand to silty sand
- 9 - sand
- 10 - gravelly sand to sand
- 11 - very stiff fine grained (*)
- 12 - sand to clayey sand (*)

Cone Size 10cm squared

S*Soil behavior type and SPT based on data from UBC-1983



EEI

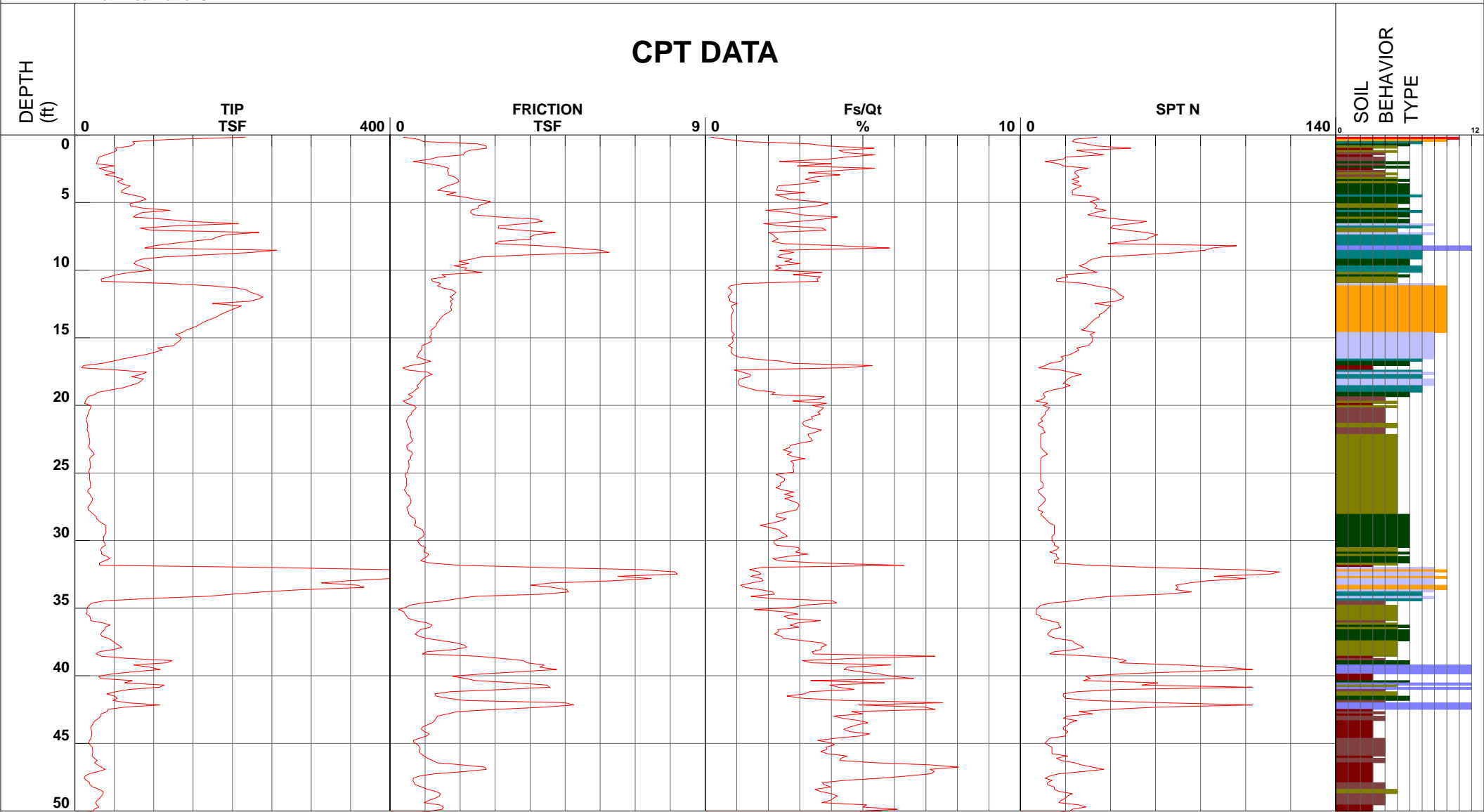
Project Emeryville
 Job Number ANT-72035-4
 Hole Number CPT-02A
 EST GW Depth During Test

Operator CB-BH
 Cone Number DDG1268
 Date and Time 1/7/2015 8:16:14 AM

Filename SDF(074).cpt
 GPS
 Maximum Depth 50.69 ft

Net Area Ratio .8

CPT DATA



- | | | | |
|------------------------------|---------------------------------|--------------------------------|------------------------------------|
| ■ 1 - sensitive fine grained | ■ 4 - silty clay to clay | ■ 7 - silty sand to sandy silt | ■ 10 - gravelly sand to sand |
| ■ 2 - organic material | ■ 5 - clayey silt to silty clay | ■ 8 - sand to silty sand | ■ 11 - very stiff fine grained (*) |
| ■ 3 - clay | ■ 6 - sandy silt to clayey silt | ■ 9 - sand | ■ 12 - sand to clayey sand (*) |

Cone Size 10cm squared

S*Soil behavior type and SPT based on data from UBC-1983



EEI

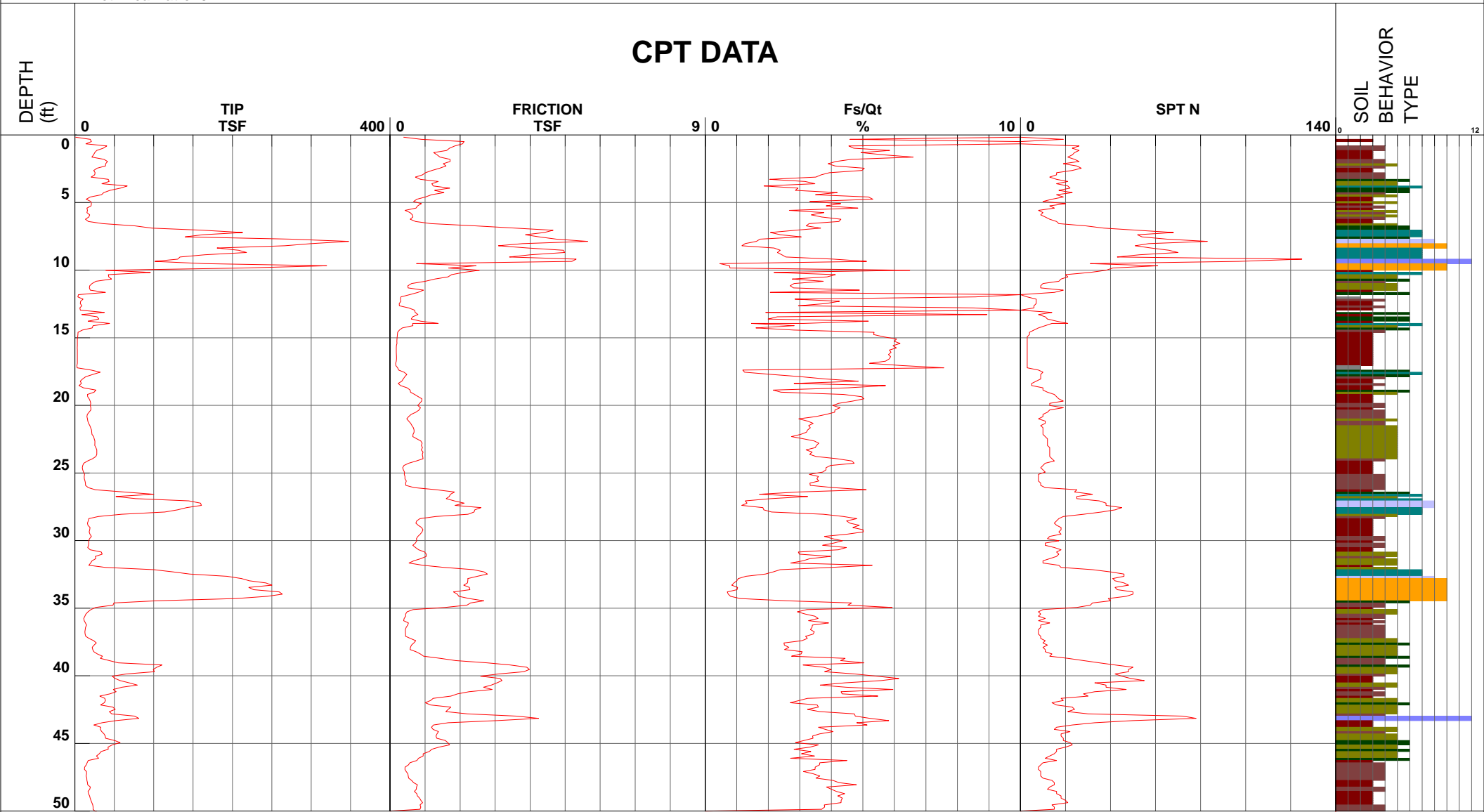
Project Emeryville
 Job Number ANT-72035-4
 Hole Number CPT-03
 EST GW Depth During Test

Operator CB-BH
 Cone Number DDG1268
 Date and Time 1/7/2015 9:03:05 AM

Filename SDF(076).cpt
 GPS
 Maximum Depth 50.20 ft

Net Area Ratio .8

CPT DATA



- | | | | |
|------------------------------|---------------------------------|--------------------------------|------------------------------------|
| ■ 1 - sensitive fine grained | ■ 4 - silty clay to clay | ■ 7 - silty sand to sandy silt | ■ 10 - gravelly sand to sand |
| ■ 2 - organic material | ■ 5 - clayey silt to silty clay | ■ 8 - sand to silty sand | ■ 11 - very stiff fine grained (*) |
| ■ 3 - clay | ■ 6 - sandy silt to clayey silt | ■ 9 - sand | ■ 12 - sand to clayey sand (*) |

Cone Size 10cm squared

S*Soil behavior type and SPT based on data from UBC-1983



EEI

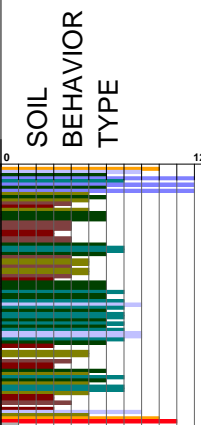
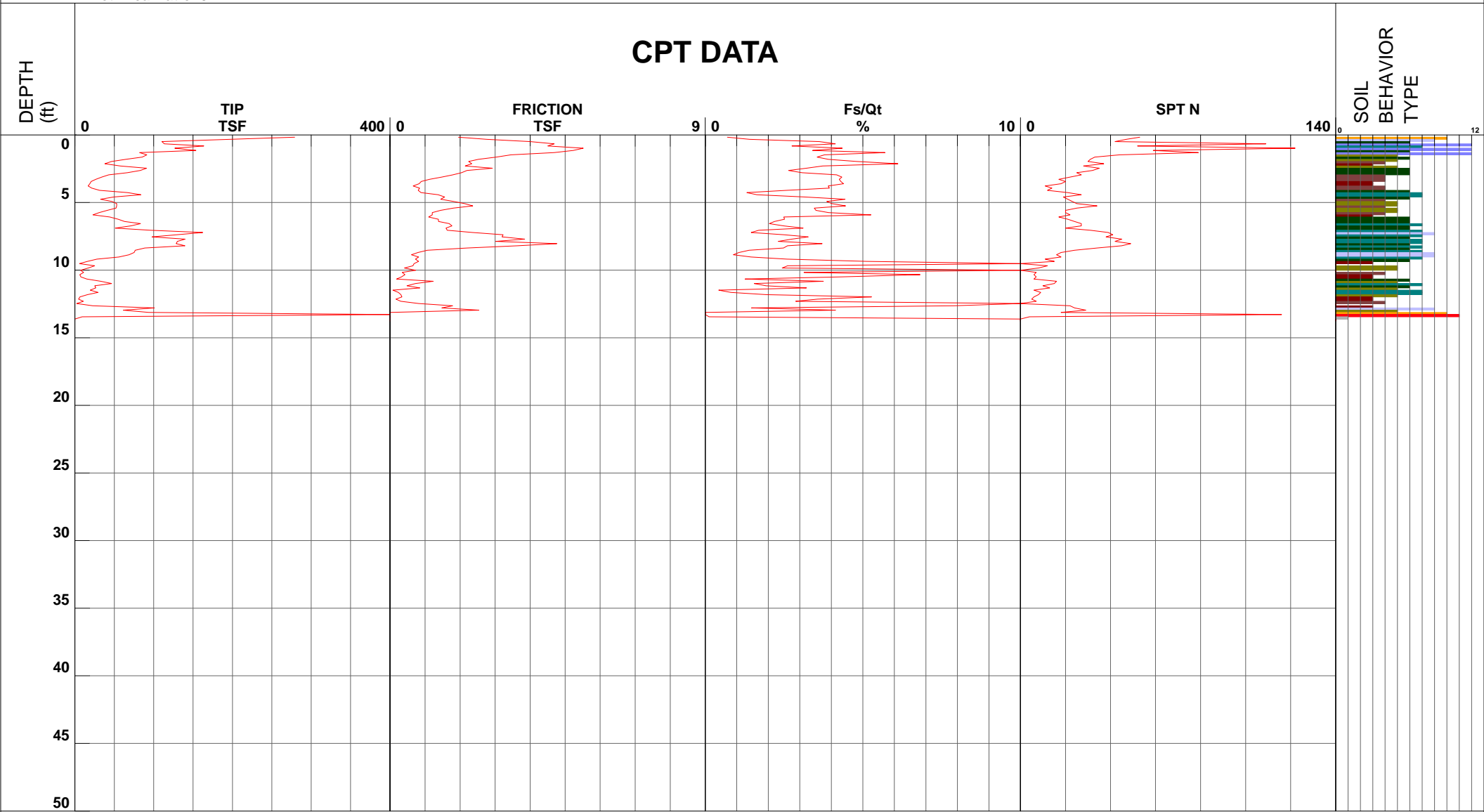
Project Emeryville
 Job Number ANT-72035-4
 Hole Number CPT-04A
 EST GW Depth During Test _____

Operator CB-BH
 Cone Number DDG1268
 Date and Time 1/7/2015 9:48:10 AM

Filename SDF(078).cpt
 GPS _____
 Maximum Depth 13.78 ft

Net Area Ratio .8

CPT DATA



- 1 - sensitive fine grained
- 2 - organic material
- 3 - clay
- 4 - silty clay to clay
- 5 - clayey silt to silty clay
- 6 - sandy silt to clayey silt
- 7 - silty sand to sandy silt
- 8 - sand to silty sand
- 9 - sand
- 10 - gravelly sand to sand
- 11 - very stiff fine grained (*)
- 12 - sand to clayey sand (*)

Cone Size 10cm squared

S*Soil behavior type and SPT based on data from UBC-1983



EEI

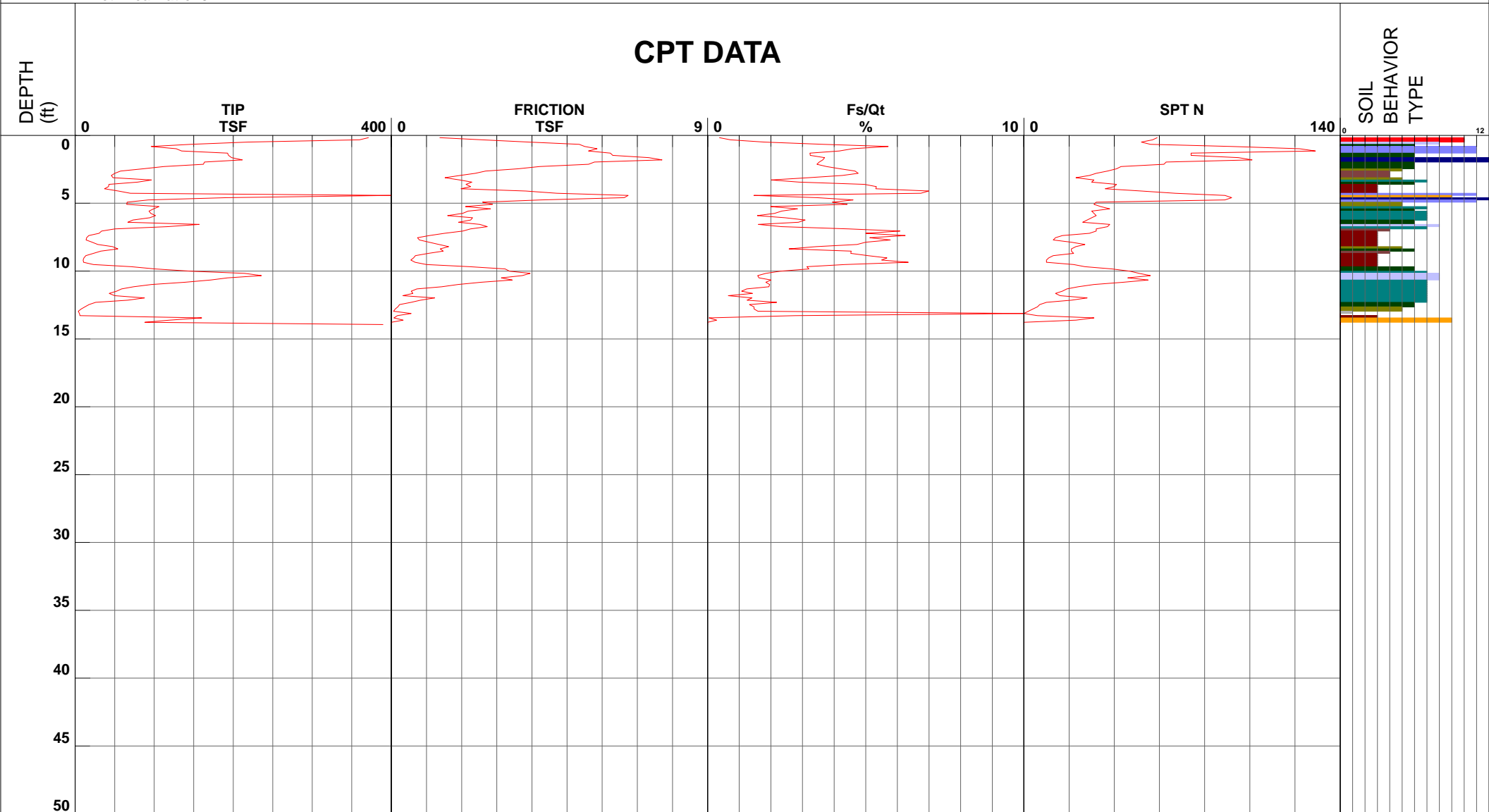
Project Emeryville
 Job Number ANT-72035-4
 Hole Number CPT-05A
 EST GW Depth During Test

Operator CB-BH
 Cone Number DDG1268
 Date and Time 1/7/2015 10:14:24 AM
 10.00 ft

Filename SDF(080).cpt
 GPS
 Maximum Depth 13.94 ft

Net Area Ratio .8

CPT DATA


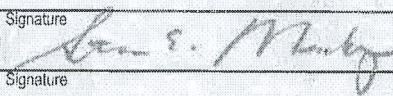
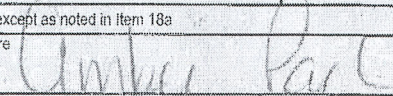


SOIL
BEHAVIOR
TYPE

- 1 - sensitive fine grained
- 4 - silty clay to clay
- 7 - silty sand to sandy silt
- 10 - gravelly sand to sand
- 2 - organic material
- 5 - clayey silt to silty clay
- 8 - sand to silty sand
- 11 - very stiff fine grained (*)
- 3 - clay
- 6 - sandy silt to clayey silt
- 9 - sand
- 12 - sand to clayey sand (*)

Cone Size 10cm squared

S*Soil behavior type and SPT based on data from UBC-1983

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number CAC002801384 CAC002801384 <i>JP</i>	2. Page 1 of 1	3. Emergency Response Phone (849) 279-1884	4. Manifest Tracking Number 007630018 FLE	
5. Generator's Name and Mailing Address Anton Emeryville, LLC 1415 L Street, Suite 400 Sacramento, CA 95814 Generator's Phone: (916) 444-9887				Generator's Site Address (if different than mailing address) Anton/Shellmound Street 6701 Shellmound Street Emeryville, CA 94608		
6. Transporter 1 Company Name BELSHIRE				U.S. EPA ID Number CAR000183013		
7. Transporter 2 Company Name				U.S. EPA ID Number		
8. Designated Facility Name and Site Address U.S. Ecology, Nevada Operations Highway 95, 11 miles S. of Beatty Beatty, NV 89003 Facility's Phone: (775) 553-2203				U.S. EPA ID Number NVT330010000		
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
1	Non-RCRA Hazardous Waste, Solid	003	DM	2100	F	611
2						
3						
4						
14. Special Handling Instructions and Additional Information ERG #171 WEAR ALL APPROPRIATE PPE: 251362 9b.1. Soil impacted with metals and TPH PERSONAL PROTECTIVE CLOTHING. 070128300-11096						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offeror's Printed/Typed Name LARRY MOOTHART ON BEHALF OF GENERATOR				Signature 		Month Day Year 01 29 15
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name STEVEN E. MENDOZA				Signature 		Month Day Year 01 29 15
Transporter 2 Printed/Typed Name				Signature		Month Day Year
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____						
18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1.	2.	3.	4.			
H132						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Amber Park				Signature 		Month Day Year 12 4 15