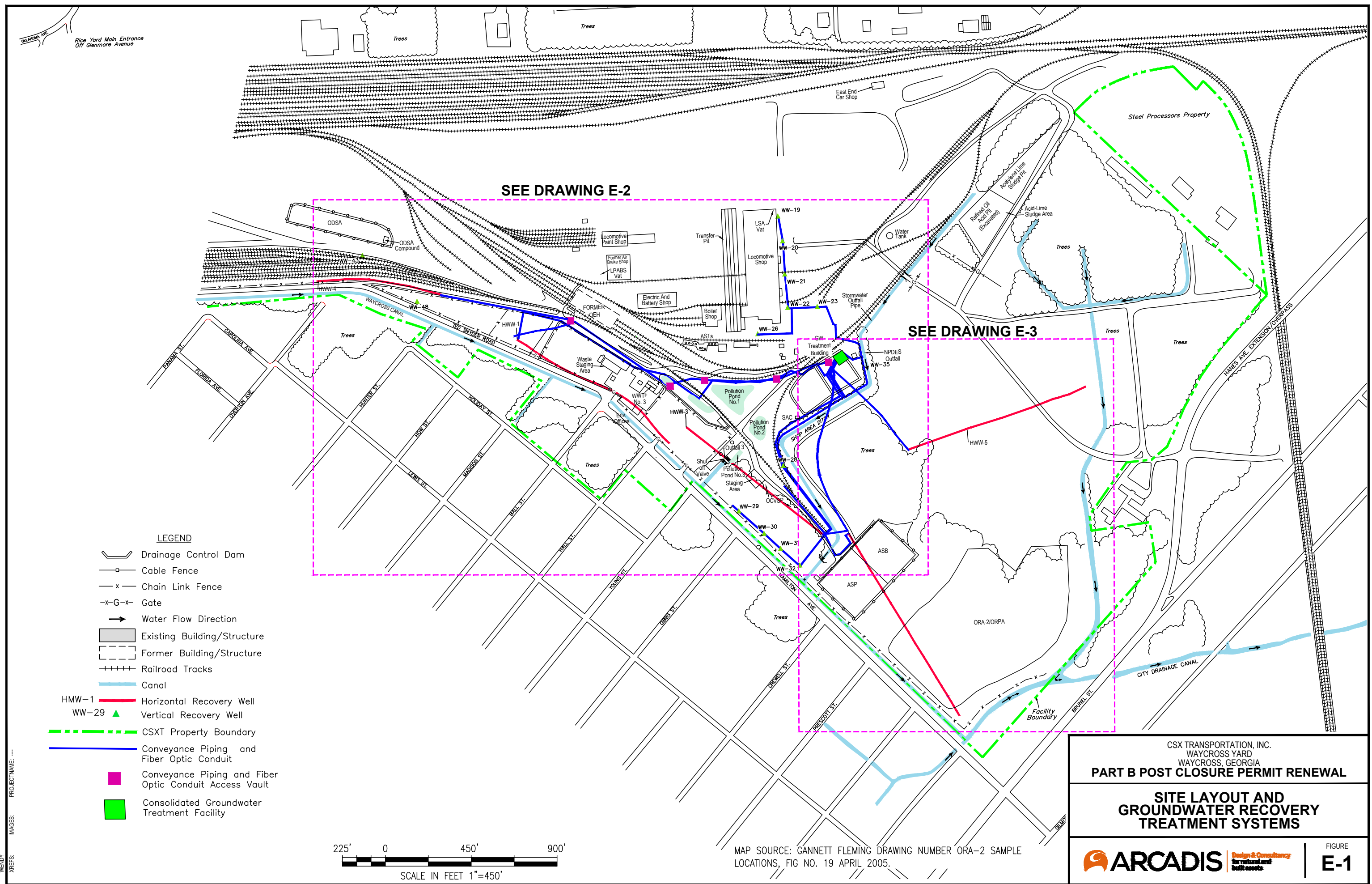


APPENDIX E

Groundwater Recovery and Treatment System Drawings



CITY (Read) DIV (GROUP/Read) DB (Read) LD (Or) PC (Or) PM (Read) TLM (Or) LVR (Or) ON (OFF-REF)
C:\Users\wvdm\OneDrive\ARCADIS\US\BIM\3D\Arcadis\ANA - CSX TRANSPORTATION\Project Files\CSX Waycross, GA\2020\02\2978\0000401\DWG\SC002385TFL E-1 E-3 PT B PCPR 2020.dwg LAYOUT: E-1 SAVED: 12/14/2020 3:41 PM ACADVER: 23.05 (LMS TECH) PAGES: 1 OF 1 PLOT: 12/14/2020 3:44 PM BY: BERNDIGEN, WENDY
XREFS: IMAGES: PROJECTNAME: ---



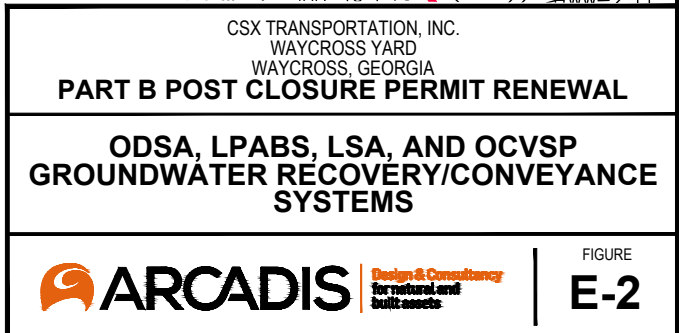
CSX TRANSPORTATION, INC.
WAYCROSS YARD
WAYCROSS, GEORGIA

PART B POST CLOSURE PERMIT RENEWAL

SITE LAYOUT AND
GROUNDWATER RECOVERY
TREATMENT SYSTEMS

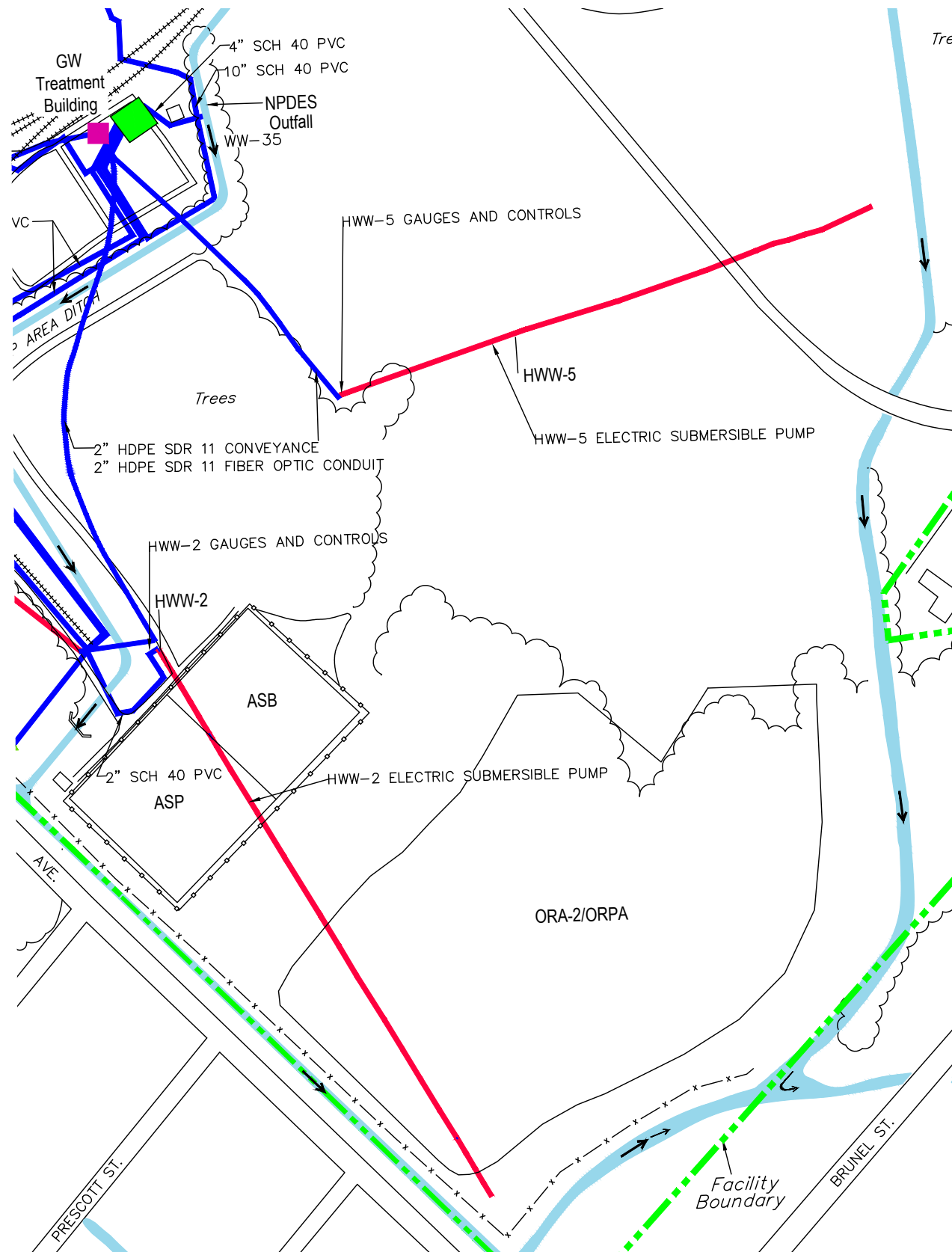
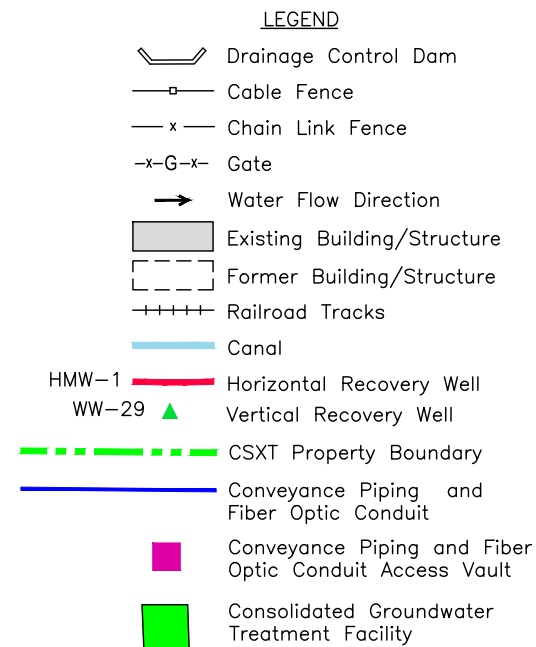
ARCADIS Design & Consultancy
for natural and
built assets

FIGURE
E-1

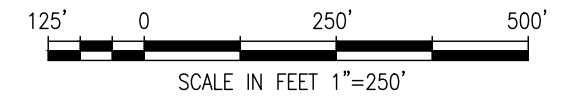


CITY(Read) DIV(CGROUP/Read) DB(Read) LD(Ord) PC(Ord) PM(Read) TM(Ord) LVR(Ord/Ord) OFF(REF)
C:\Users\wvdm\OneDrive\ARCADIS\US\BIM\360\Arcadis\ANA - CSX TRANSPORTATION\Project Files\CSX Waycross, GA\2020\02\27\78.000\040\1-DWG\SC002385TFL E1 E 3 PT B PCPR 2020.dwg LAYOUT: E-3 SAVED: 12/14/2020 3:41 PM ACADVER: 21.05 (LMS TECH) PAGES: 10 PLOT: 12/14/2020 3:45 PM BY: BERNDIGEN, WENDY

XREFS: PROJECTNAME: ---
IMAGES: ---



MAP SOURCE: GANNETT FLEMING DRAWING NUMBER ORA-2 SAMPLE LOCATIONS, FIG NO. 19 APRIL 2005.



CSX TRANSPORTATION, INC.
WAYCROSS YARD
WAYCROSS, GEORGIA

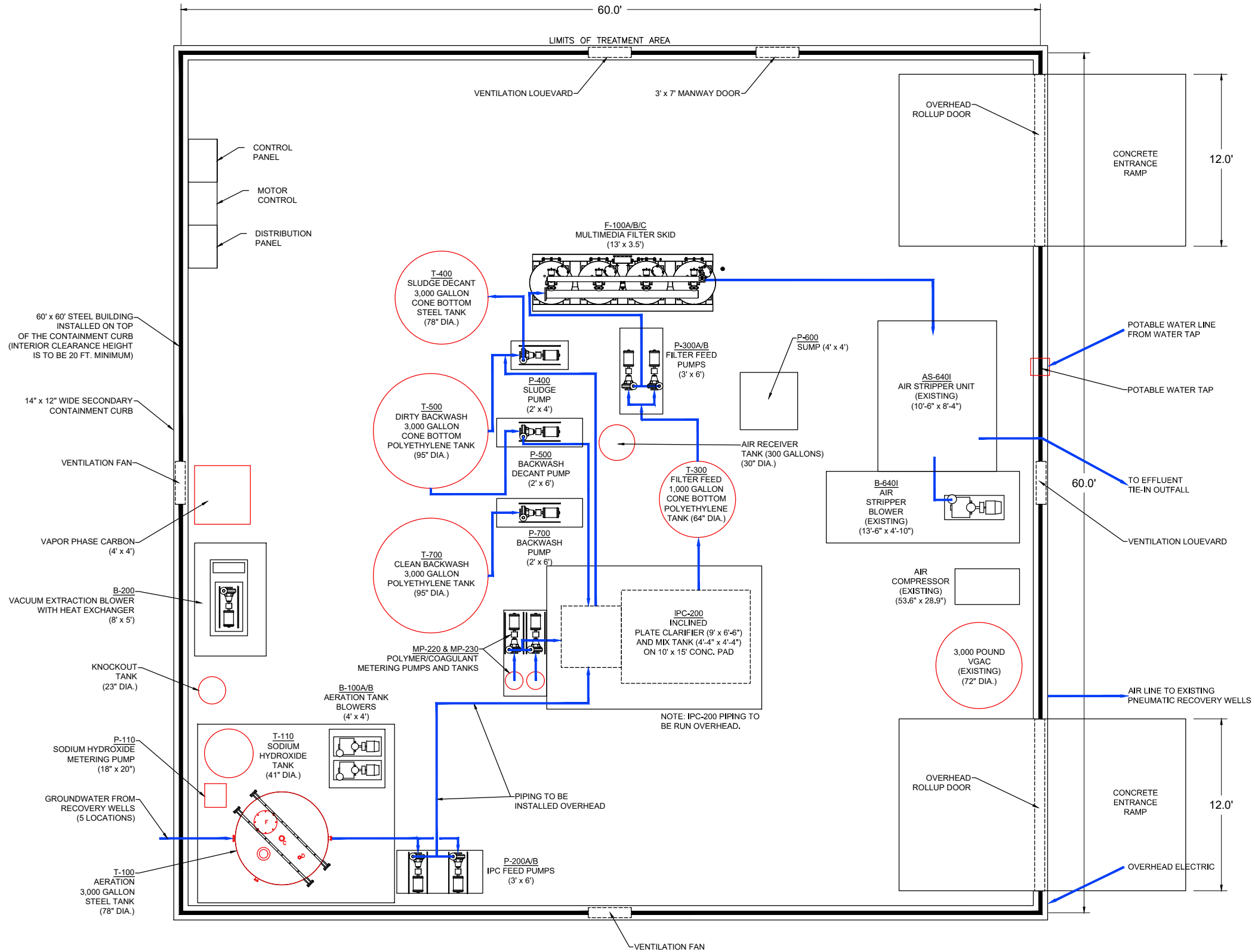
PART B POST CLOSURE PERMIT RENEWAL

ASB AND ALSA GROUNDWATER RECOVERY/CONVEYANCE SYSTEMS

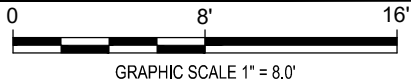
ARCADIS Design & Consulting for natural and built assets

FIGURE
E-3

CITY: BB, FL DIV/GRP: EN DB, BOLIVA LD, PIC, PM: TM, T HAYS LYRON="OFF=REF" C:\Users\boliva\OneDrive - ARCADIS\BIM 360 Docs\IANA - CSX TRANSPORTATION\CD\CSX Waycross, GA\2018\SC000239.005201-DWG\SC000239.0052-P-Treat Layout.dwg LAYOUT: CD-D6_PRE-TREAT SYS LAYOUT-BLDG SAVED: 1/24/2019 1:19 PM ACADVER: 21.05 (LMS TECH) PAGES: 1 OF 1 PLOTSTYLETABLE: ACS-BW_ANALYTICAL.ctb PLOTTED: 1/24/2019 1:21 PM BY: OLIVIA BRIAN



NOTES:
1. FACILITY LIGHTING NOT SHOWN, LIGHTING IS TO BE INCLUDED WITH THE FACILITY.



THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING:

USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

THIS DRAWING IS THE PROPERTY OF THE ARCADIS ENTITY IDENTIFIED IN THE TITLE BLOCK AND MAY NOT BE REPRODUCED OR ALTERED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF SAME.

Project Mgr.
(MGR)
Designed by
T.H.
Drawn by
B.O.
Checked by
B.O.



ARCADIS U.S., INC.

CSX TRANSPORTATION INC., WAYCROSS RAILYARD • WAYCROSS, WARE COUNTY, GEORGIA
CONSTRUCTION DRAWINGS - PRE-TREATMENT SYSTEM BUILDING

PRELIMINARY TREATMENT SYSTEM LAYOUT

GENERAL

Professional Engineer's
ALAN EVANS, PE

P.E.'s Number
041406

State
GA

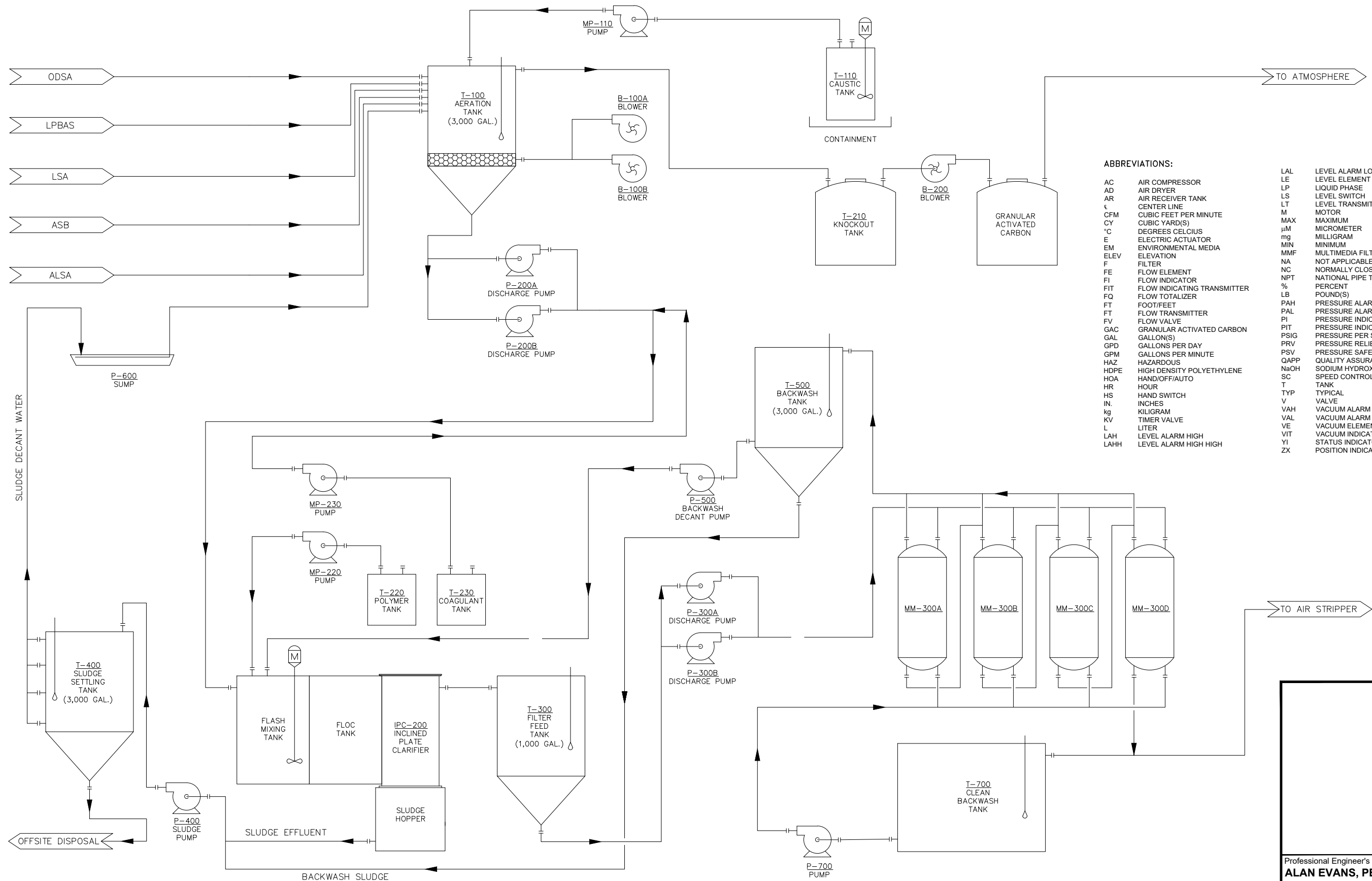
Date Signed

ARCADIS Project No.
SC000239.0052.00005

Date
JANUARY 2019

ARCADIS
10 PATEWOOD DR.
SUITE 375
GREENVILLE, SC
TEL. 864.987.3905

E-5



ABBREVIATIONS:			
AC	AIR COMPRESSOR	LAL	LEVEL ALARM LOW
AD	AIR DRYER	LE	LEVEL ELEMENT
AR	AIR RECEIVER TANK	LP	LIQUID PHASE
CL	CENTER LINE	LS	LEVEL SWITCH
CFM	CUBIC FEET PER MINUTE	LT	LEVEL TRANSMITTER
CY	CUBIC YARD(S)	M	MOTOR
°C	DEGREES CELCIUS	MAX	MAXIMUM
E	ELECTRIC ACTUATOR	μM	MICROMETER
EM	ENVIRONMENTAL MEDIA	mg	MILLIGRAM
ELEV	ELEVATION	MIN	MINIMUM
F	FILTER	MMF	MULTIMEDIA FILTER
FE	FLOW ELEMENT	NA	NOT APPLICABLE
FI	FLOW INDICATOR	NC	NORMALLY CLOSED
FIT	FLOW INDICATING TRANSMITTER	NPT	NATIONAL PIPE THREAD
FQ	FLOW TOTALIZER	%	PERCENT
FT	FOOT/FEET	LB	POUND(S)
FT	FLOW TRANSMITTER	PAH	PRESSURE ALARM HIGH
FV	FLOW VALVE	PAL	PRESSURE ALARM LOW
GAC	GRANULAR ACTIVATED CARBON	PI	PRESSURE INDICATOR
GAL	GALLON(S)	PIT	PRESSURE INDICATING TRANSMITTER
GPD	GALLONS PER DAY	PSIG	PRESSURE PER SQUARE INCH GAUGE
GPM	GALLONS PER MINUTE	PRV	PRESSURE RELIEF VALVE
HAZ	HAZARDOUS	PSV	PRESSURE SAFETY VALVE
HDPE	HIGH DENSITY POLYETHYLENE	QAPP	QUALITY ASSURANCE PROJECT PLAN
HOA	HAND/OFF/AUTO	NaOH	SODIUM HYDROXIDE
HR	HOURLY	SC	SPEED CONTROL
HS	HAND SWITCH	T	TANK
IN.	INCHES	TYP	TYPICAL
kg	KILIGRAM	V	VALVE
KV	TIMER VALVE	VAH	VACUUM ALARM HIGH
L	LITER	VAL	VACUUM ALARM LOW
LAH	LEVEL ALARM HIGH	VE	VACUUM ELEMENT
LAHH	LEVEL ALARM HIGH HIGH	VIT	VACUUM INDICATING TRANSMITTER
		YI	STATUS INDICATOR
		ZX	POSITION INDICATOR

Professional Engineer's
ALAN EVANS, PE

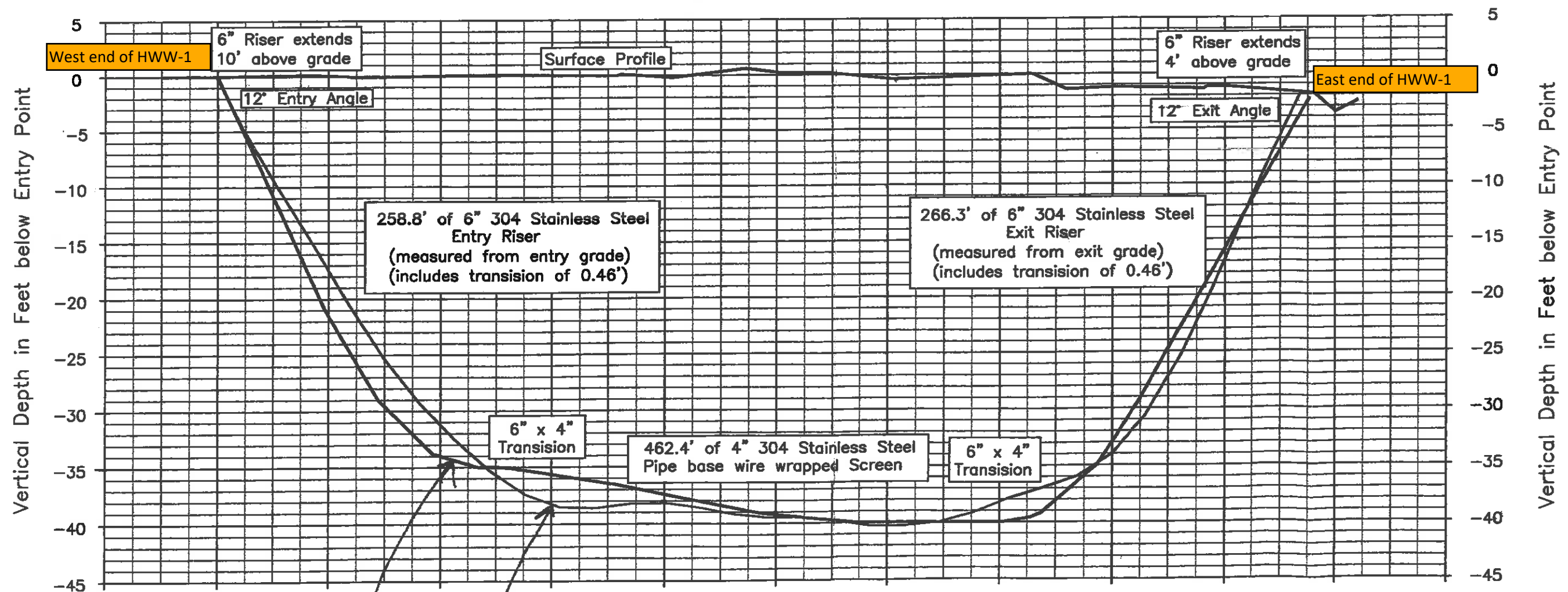
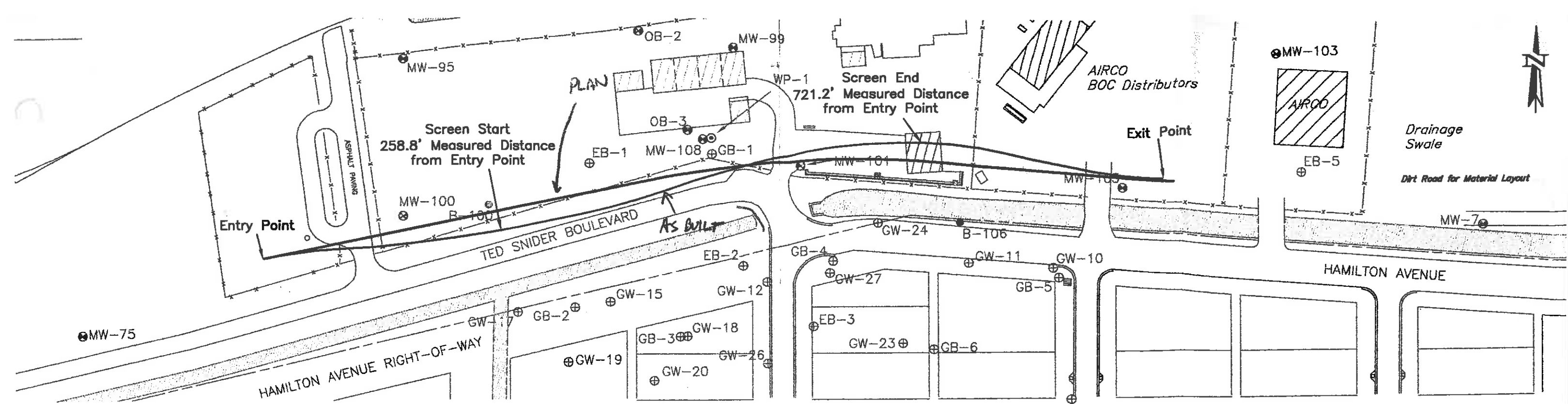
P.E.'s Number 041406	State GA	Date Signed
-------------------------	-------------	-------------

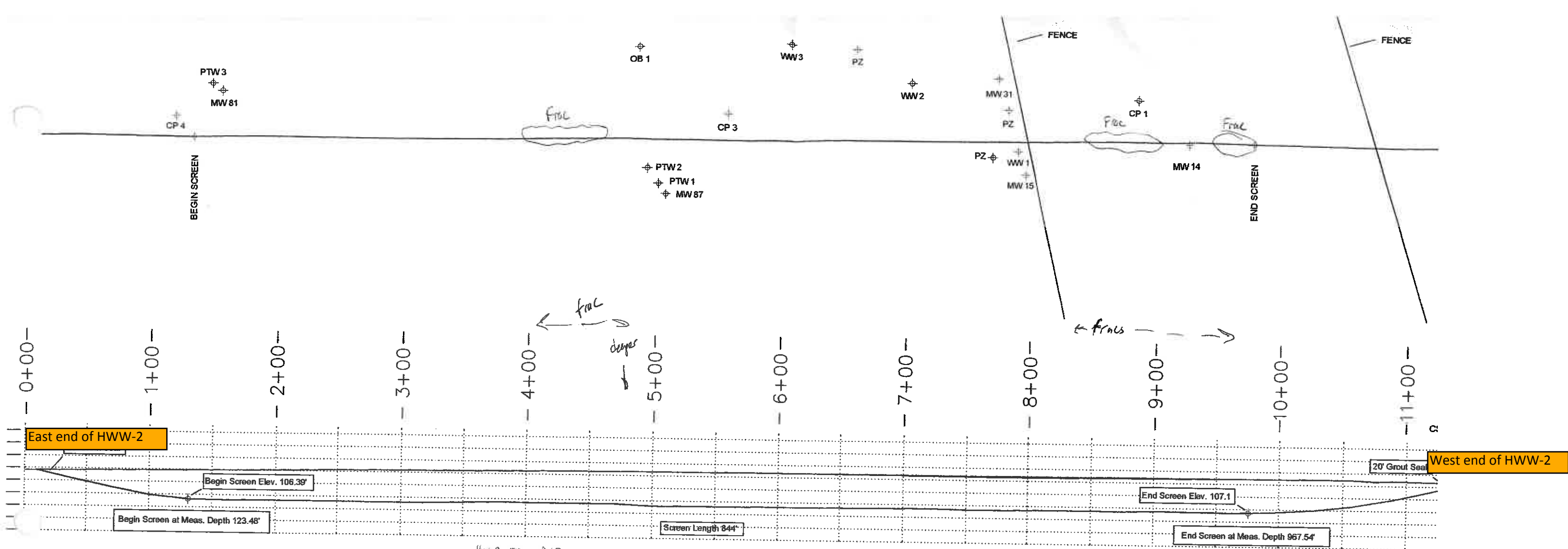
ARCADIS Project No.
SC000239.0052.00005

Date
AUGUST 2018

ARCADIS
10 PATEWOOD DR.
SUITE 375
GREENVILLE, SC
TEL. 864.987.3905

E-4





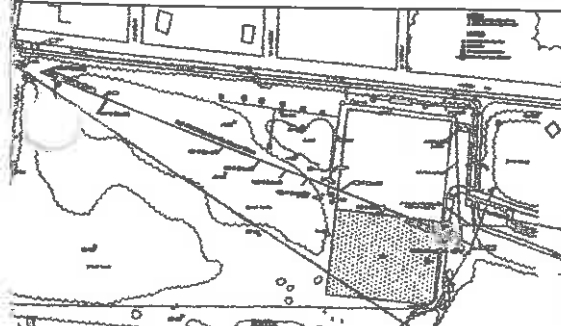
Horizontal Dist. Created by Computer
Tru Track Drill Path

STRING	ELEVATION	STATION	(-L +R)	STRING	ELEVATION	STATION	(-L +R)	STRING	ELEVATION	STATION	(-L +R)	STRING	ELEVATION	STATION	(-L +R)
0	128.22	9.40	4.50	11	106.74	345.75	3.80	22	106.67	886.92	1.04	33	109.74	1026.24	.47
1	121.99	37.76	4.41	12	107.38	376.85	3.59	23	106.99	717.92	1.03	34	113.26	1056.65	.78
2	115.52	68.19	4.79	13	107.33	407.85	3.01	24	106.47	748.82	1.22	35	119.00	1087.63	.78
3	109.54	99.27	5.10	14	107.21	439.05	2.40	25	106.59	779.51	.77	36	125.72	1118.22	.47
4	106.53	129.20	5.36	15	107.20	470.14	1.80	26	107.03	810.51	.65	37	132.81	1146.5	.50
5	106.01	158.97	4.65	16	105.80	501.13	2.23	27	107.00	841.51	-.02	38	133.25	1151.02	.50
6	106.18	189.87	4.40	17	105.94	532.13	2.29	28	106.86	872.01	-.30				
7	106.29	221.47	4.37	18	106.12	563.03	2.20	29	107.35	902.71	-.45				
8	106.24	252.16	4.03	19	106.35	594.52	2.14	30	107.13	933.71	-.43				
9	105.94	283.96	4.13	20	106.35	625.52	1.59	31	107.09	964.21	.03				
10	106.11	314.76	4.02	21	106.63	655.92	1.20	32	107.93	995.50	.09				

eleventh leveler.

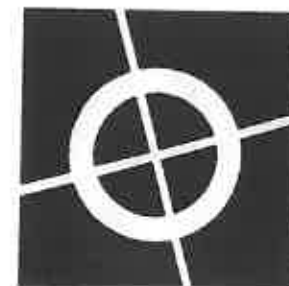
134.
 107.
 27


low was taken from original drill plan and does not reflect as built values.



Scale 1" = 70' Horizontal & Vertical

- _____ TOPOGRAPHY
- _____ 4" STAINLESS STEEL SCREEN
- _____ 4" STAINLESS STEEL PIPE





Gannett
 ENGINEERS AND PL

HWW -
 As Built Drawn

CSX Transp
 Waycross, Ge

Drawn By: _____ Checked By: _____

Well Completion Data Form

Report Completion Date: 1/15/2015

For ☒ New Construction ☐ Under Repair/Modification ☐ Completed ☐ Abandoned Wells

Property Owner Information			
Property Owner Name: CSX Transportation		Phone:	Email:
Company / Farm / Municipality / Water System Name: CSX Rice Yard			
Address: 601 Haines Ave.		Waycross	GA 31501
(No. and Street)		(City)	(State) (Zip)
Well Contractor Information			
Onsite Well Driller Name: Roy Rushing		License No.	Phone: 407.426.9806
Well Contractor Company Name: Trenchless Crossings, Inc			
Address: 6363 Edgewater Dr.		Orlando	FL 32810
(No. and Street)		(City)	(State) (Zip)
Drilling under direction of Professional Geologist or Engineer Name: Jeff Beckner		License No. 744	
Well Information			
<input type="checkbox"/> Public Drinking <input type="checkbox"/> Municipal <input type="checkbox"/> Industrial <input type="checkbox"/> Agricultural / Irrigation Well <input type="checkbox"/> Bore/core hole <input checked="" type="checkbox"/> Dewatering <input type="checkbox"/> Individual Drinking <input type="checkbox"/> Geothermal <input type="checkbox"/> Test / Monitoring <input type="checkbox"/> Injection <input type="checkbox"/> Other Well Type:			
Well Application or Permit Number: NA		Facility or Public Water System ID: CSX Rice Yard Well Number: HW-3	
<input type="checkbox"/> Permit/Concurrence Letter On-site			
County where well is located: Ware		Latitude: 593791.344 Longitude: 435116.689 Elevation: 132	
Well Construction Description			
Well Drilling Information			
Total depth of well: 27 ft. BLS		<input type="checkbox"/> Rotary <input type="checkbox"/> Percussion <input type="checkbox"/> Bored	
Static water level: 5 ft. BLS Date SWL measured:		<input type="checkbox"/> Jetted <input type="checkbox"/> Auger <input type="checkbox"/> Cable Tool	
Date Drilled: 12-9-2014-12-12-2014 Drilling Start Time: 8 am		<input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Hand-Driven <input type="checkbox"/> Hydraulic Pt.	
		<input checked="" type="checkbox"/> Drilling Fluid Used Type Fluid: bentonite drilling mud	
Drill Hole Diameter			
Size 10 in., from 0 ft. to 900 ft.		Grouting (<input checked="" type="checkbox"/> as applicable)	
Size _____ in., from _____ ft. to _____ ft.		Method: <input type="checkbox"/> Casing <input checked="" type="checkbox"/> Tremie <input type="checkbox"/> Packer <input type="checkbox"/> Halliburton <input type="checkbox"/> Under Pressure	
Size _____ in., from _____ ft. to _____ ft.		Type: <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> Other: _____	
		<input checked="" type="checkbox"/> Present From 0 ft. to 50 ft. From 0 ft. to 50 ft.	
Casing Record (<input checked="" type="checkbox"/> as applicable)			
Primary: <input type="checkbox"/> Black Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Stainless <input type="checkbox"/> PVC-NSF Rated		Permanent Pump Data (<input checked="" type="checkbox"/> as applicable)	
<input type="checkbox"/> PVC <input type="checkbox"/> Not Cased <input checked="" type="checkbox"/> Other: 6 inch FRE		Pump Type: Grundfos	
Secondary: <input type="checkbox"/> Telescope <input type="checkbox"/> Liner <input type="checkbox"/> Surface Casing		Pump Diameter: 4 in Outlet size: 1.25"	
Wall Thickness 0.83" in.		Motor HP: 0.75 Motor RPM: _____	
Weight per foot 7.40 SDR _____		Pump Capacity: 12 GPM Total Dynamic Head: _____ ft.	
Size: _____ in., from _____ ft. to _____ ft.		Pump Set at: 27 ft. Pump Disinfected: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Size: _____ in., from _____ ft. to _____ ft.		Meter Installed: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Meter Size & Rating: _____	
Size: _____ in., from _____ ft. to _____ ft.		Casing Vent: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Sample Tap: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Size: _____ in., from _____ ft. to _____ ft.		Air Line: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Depth _____ ft. Diameter _____ in.	
		Chemigation check valve installed: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Well Screen and Filter Pack (if installed)			
Type material FRE		Test Pump Data (<input checked="" type="checkbox"/> as applicable)	
Size: 6" in., from 180 ft. to 780 ft.		Date Tested: _____ Static water level: _____ ft. BLS	
Size: _____ in., from _____ ft. to _____ ft.		Test Pump Rated: _____ GPM _____ HP	
Size: _____ in., from _____ ft. to _____ ft.		Total Continuous Hours Tested: _____	
Size: _____ in., from _____ ft. to _____ ft.		Water Level Stabilized: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Type Filter (Gravel) Pack natural Disinfected: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Hours before Stabilization: _____ Sustained Yield: _____ GPM	
Filter Pack from _____ ft. to _____ ft.		Total Drawdown: _____ ft. Specific Capacity: _____ GPM/ft.	
Filter Pack from _____ ft. to _____ ft.		Pumping Water Level: _____ ft.	
Filter Pack to Formation Ratio: _____ Uniformity Coeff: _____		Number of Minutes to Recover: _____	
		Well Developed: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Well Disinfected: <input type="checkbox"/> Yes <input type="checkbox"/> No	

Protection from Pollutants (☒ If done)**Construction Techniques (☑ if done)**

- | | | |
|--|--|---|
| <input type="checkbox"/> Upgradient from pollutant sources | <input checked="" type="checkbox"/> Drill cuttings, materials removed | <input type="checkbox"/> Well disinfected |
| <input type="checkbox"/> >10 ft. sewer line <input type="checkbox"/> > 50 ft. septic tank | <input checked="" type="checkbox"/> Casing, liner pipe joints watertight | <input type="checkbox"/> Sanitary seal |
| <input type="checkbox"/> >150 ft. seep pit <input type="checkbox"/> > 100 ft. septic drain field | <input checked="" type="checkbox"/> Grouted to 10 ft. (Individual) 20-50 ft. (Irrigation, Nonpublic) | |
| <input type="checkbox"/> > 100 ft. animal enclosure <input type="checkbox"/> protected from runoff | <input checked="" type="checkbox"/> Concrete Curbed/Pad > 4 in. thick, extend > 2 ft., sloped | |
| <input type="checkbox"/> casing > 2 ft. above floodplain or highest known flood | <input type="checkbox"/> Gravel/Filter pack washed, disinfected | |
| <input type="checkbox"/> Water-bearing formations sealed if likely to be polluted | <input checked="" type="checkbox"/> Casing material new or meets national standards | |
| <input type="checkbox"/> Health Dept. notified <input type="checkbox"/> Health Dept. variance | <input checked="" type="checkbox"/> Well screen – optimal development, low head loss & clog | |
| | <input checked="" type="checkbox"/> Drilling equipment steam cleaned | |

[illegible]

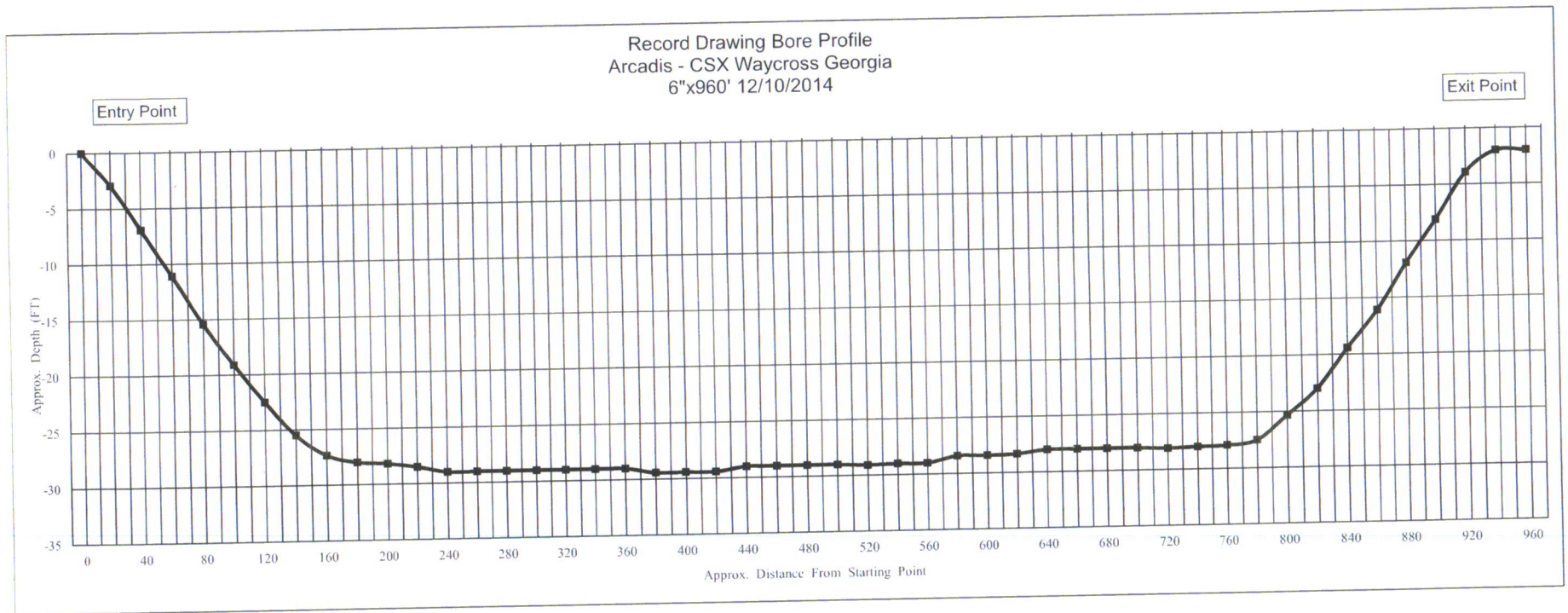
This well was drilled and constructed (or plugged/abandoned, if applicable) in accordance with the Georgia Water Well Standards Act, O.C.G.A. 12-5-120 *et seq.*, Georgia Groundwater Use Act, O.C.G.A. 12-5-90 *et seq.* and 12-5-105 *et seq.*, Georgia Safe Drinking Water Act, O.C.G.A. 12-5-170 *et seq.*, and applicable Georgia Department of Natural Resources' rules, regulations and guidance documents.

I certify that the information on this form (Pages 1 and 2) is correct and true to the best of my knowledge.

1/15/15
Date

1/15/15
Date

Trenchless Crossings, Inc.
Horizontal Directional Drilling For
Infrastructure and Environmental Applications



The above information is correct based on electronic information received during the pilot bore.

6363 Edgewater Dr., Orlando, FL 32810 * Phone (407) 426-9806 / Fax (407) 426-9834



BORE DOCUMENTATION

Job#: 1379 Bore Size: _____ Bore Length: 940'
 Job Location: Waycross GA Material Size: 6"
 Client: Arcadia Angle of Entry: -22
 Client Contact: _____ Rig Used: 9014
 Date: 12-16-14 Length of Rods: 20'

ROD #	ANGLE	DEPTH	DISTANCE OUT	COMMENTS
1	-22	2'11"		
2	-20	6'11"		
3	-22	11'		
4	-24	15'5"		
5	-20	19'		
6	-15	22'6"		
7	-13	25'6"		
8	-7	27'4"		screen
9	-2	28'		
10	0	28'2"		
11	0	28'6"		
12	0	29'		FENCE
13	0	29'		
14	0	29'		
15	0	29'		Edge of Water
16	0	29'		
17	+1	29'		End of Water
18	+3	29'		Fence
19	+5	29'5"		
20	+5	29'5"		
21	+2	29'5"		
22	+3	29'		concrete pad
23	+2	29'		
24	0	29'		

Client Acceptance of Piping Material Installed and Bore Length and Depth

Name: _____

Date: _____



BORE DOCUMENTATION

Job#: 1379 Bore Size: _____ Bore Length: 940'
 Job Location: Waycross G.A Material Size: (1) 6"
 Client: Arcadia Angle of Entry: -22
 Client Contact: _____ Rig Used: 9014
 Date: 12-10-14 Length of Rods: 20'

ROD #	ANGLE	DEPTH	DISTANCE OUT	COMMENTS
25	0	29'		
26	0	29'		end of concrete pad
27	0	29'		concrete pad
28	0	29'		
29	0	28'5"		
30	0	28'5"		
31	0	28'4"		
32	0	28'		
33	-1	28'		
34	-2	28'		
35	-3	28'		
36	0	28'1"		
37	0	28'		
38	0	27'11"		
39	+2	27'6"		end of screen
40	+8	25'4"		
41	+14	23'		
42	+18	19'5"		
43	+20	16'1"		
44	+20	11'11"		
45	+16	8'1"		
46	+19	3'11"		
47	+19	2'		
48		pit		

Client Acceptance of Piping Material Installed and Bore Length and Depth

Name: _____

Date: _____

Well Completion Data Form

Report Completion Date: 10/16/2017

For ☒ New Construction ☐ Under Repair/Modification ☐ Completed ☐ Abandoned Wells

Property Owner Information

Property Owner Name: CSX Transportation	Phone:	Email:
Company / Farm / Municipality / Water System Name: CSX Rice Yard		
Address: 601 Haines Ave.	Waycross	GA 31501
(No. and Street)	(City)	(State) (Zip)

Well Contractor Information

Onsite Well Driller Name: James Doesburg	License No. 620	Phone: (253) 405-0364
Well Contractor Company Name: Directed Technologies Drilling		
Address: 100 Rolling Ridge Drive	Bellefonte	PA 16823
(No. and Street)	(City)	(State) (Zip)
Drilling under direction of Professional Geologist or Engineer Name: Jeff Beckner		License No. 744

Well Information

<input type="checkbox"/> Public Drinking <input type="checkbox"/> Municipal <input type="checkbox"/> Industrial <input type="checkbox"/> Agricultural / Irrigation Well <input type="checkbox"/> Bore/core hole <input checked="" type="checkbox"/> Dewatering <input type="checkbox"/> Individual Drinking <input type="checkbox"/> Geothermal <input type="checkbox"/> Test / Monitoring <input type="checkbox"/> Injection <input type="checkbox"/> Other Well Type:	
Well Application or Permit Number: N/A	Facility or Public Water System ID: CSX Rice Yard Well Number: HWW-4
<input type="checkbox"/> Permit/Concurrence Letter On-site	
County where well is located: Ware	Latitude: 31.19545 N Longitude: 82.3706 W Elevation: 138

Well Construction Description

Well Drilling Information

Total depth of well: 23 ft. BLS	<input type="checkbox"/> Rotary <input type="checkbox"/> Percussion <input type="checkbox"/> Bored
Static water level: 5 ft. BLS Date SWL measured: 9/29/2017	<input type="checkbox"/> Jetted <input type="checkbox"/> Auger <input type="checkbox"/> Cable Tool
Date Drilled: 9/18/2017 - 9/21/2017	<input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Hand-Driven <input type="checkbox"/> Hydraulic Pt.
Drilling Start Time: 3 pm	<input checked="" type="checkbox"/> Drilling Fluid Used Type Fluid: biodegradable polymer

Drill Hole Diameter

Size 10 in., from 0 ft. to 700.5 ft.	Grouting (✓ as applicable) Method: <input type="checkbox"/> Casing <input checked="" type="checkbox"/> Tremie <input type="checkbox"/> Packer <input type="checkbox"/> Halliburton <input type="checkbox"/> Under Pressure Type: <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> Other: <input checked="" type="checkbox"/> Present From 10 ft. to ~45 ft. From ~660 ft. to 690 ft.
Size in., from ft. to ft.	
Size in., from ft. to ft.	

Casing Record (✓ as applicable)

Primary: <input type="checkbox"/> Black Steel <input type="checkbox"/> Galvanized <input checked="" type="checkbox"/> Stainless <input type="checkbox"/> PVC-NSF Rated	Pump Type: Grundfos
<input type="checkbox"/> PVC <input type="checkbox"/> Not Cased <input checked="" type="checkbox"/> Other: HDPE SDR11	Pump Diameter: 4 inch Outlet size: 1.25"
Secondary: <input type="checkbox"/> Telescope <input type="checkbox"/> Liner <input type="checkbox"/> Surface Casing	Motor HP: 0.75 Motor RPM:
Wall Thickness 0.280 in.	Pump Capacity: 12 GPM Total Dynamic Head: 175 ft.
Weight per foot 18.97 SDR 11	Pump Set at: 23 ft. Pump Disinfected: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Size: 6 in., from 0 ft. to 170.5 ft.	Meter Installed: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Meter Size & Rating:
Size: 6 in., from 520.5 ft. to 700.5 ft.	Casing Vent: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Sample Tap: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Size: in., from ft. to ft.	Air Line: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Depth ft. Diameter in.
Size: in., from ft. to ft.	Chemigation check valve installed: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Well Screen and Filter Pack (if installed)

Type material Stainless steel wire-wrap screen	Test Pump Data (✓ as applicable)
Size: 4 in., from 170.5 ft. to 520.5 ft.	Date Tested: Static water level: ft. BLS
Size: in., from ft. to ft.	Test Pump Rated: GPM HP
Size: in., from ft. to ft.	Total Continuous Hours Tested:
Size: in., from ft. to ft.	Water Level Stabilized: <input type="checkbox"/> Yes <input type="checkbox"/> No
Size: in., from ft. to ft.	Hours before Stabilization: Sustained Yield: GPM
Type Filter (Gravel) Pack N/A Disinfected: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Total Drawdown: ft. Specific Capacity: GPM/ft.
Filter Pack from ft. to ft.	Pumping Water Level: ft.
Filter Pack from ft. to ft.	Number of Minutes to Recover:
Filter Pack to Formation Ratio: Uniformity Coeff:	Well Developed: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Well Disinfected: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Protection from Pollutants (☑ if done)☒ Drill cuttings, materials removed ☐ Well disinfected☒ Drill cuttings, materials removed☐ Well disinfected☒ Casing, liner pipe joints watertight ☐ Sanitary seal☒ Grouted to 10 ft. (Individual) 20-50 ft. (Irrigation, Nonpublic)☒ Concrete Curbed/Pad \geq 4 in. thick, extend \geq 2 ft., sloped☐ Gravel/Filter pack washed, disinfected☒ Casing material new or meets national standards☒ Well screen – optimal development, low head loss & clog☒ Drilling equipment steam cleaned[illegible]

This well was drilled and constructed (or plugged/abandoned, if applicable) in accordance with the Georgia Water Well Standards Act, O.C.G.A. 12-5-120 *et seq.*, Georgia Groundwater Use Act, O.C.G.A. 12-5-90 *et seq.* and 12-5-105 *et seq.*, Georgia Safe Drinking Water Act, O.C.G.A. 12-5-170 *et seq.*, and applicable Georgia Department of Natural Resources' rules, regulations and guidance documents.

I certify that the information on this form (Pages 1 and 2) is correct and true to the best of my knowledge.

Digitally signed by Jim Doesburg
DN: cn=Jim Doesburg, o, ou,
email=jim@horizontaldrill.com, c=US
Date: 2017.10.16 14:05:32 -04'00'

10/16/2017

License Number

Date _____

0744

11/17/17

License Number

Date _____

Client Name: Arcadis
 Job Name: CSX - Rice Yard
 Pipeline Name: N/A
 Location: Waycross, GA
 Drill Rig: 24x40
 Drill bit: 6.5" duckbill
 Well Screen: 4" Stainless
 Well Casing: 6" stainless and HDPE
 Length of Drill Rods: 10 ft
 Length of Borehole: 676 ft (Horizontal Distance)
 Length of Well: 700.0 ft
 Entry Casing Length: 170.5 ft
 Screen Length: 350.0 ft
 Exit Casing Length: 180 ft

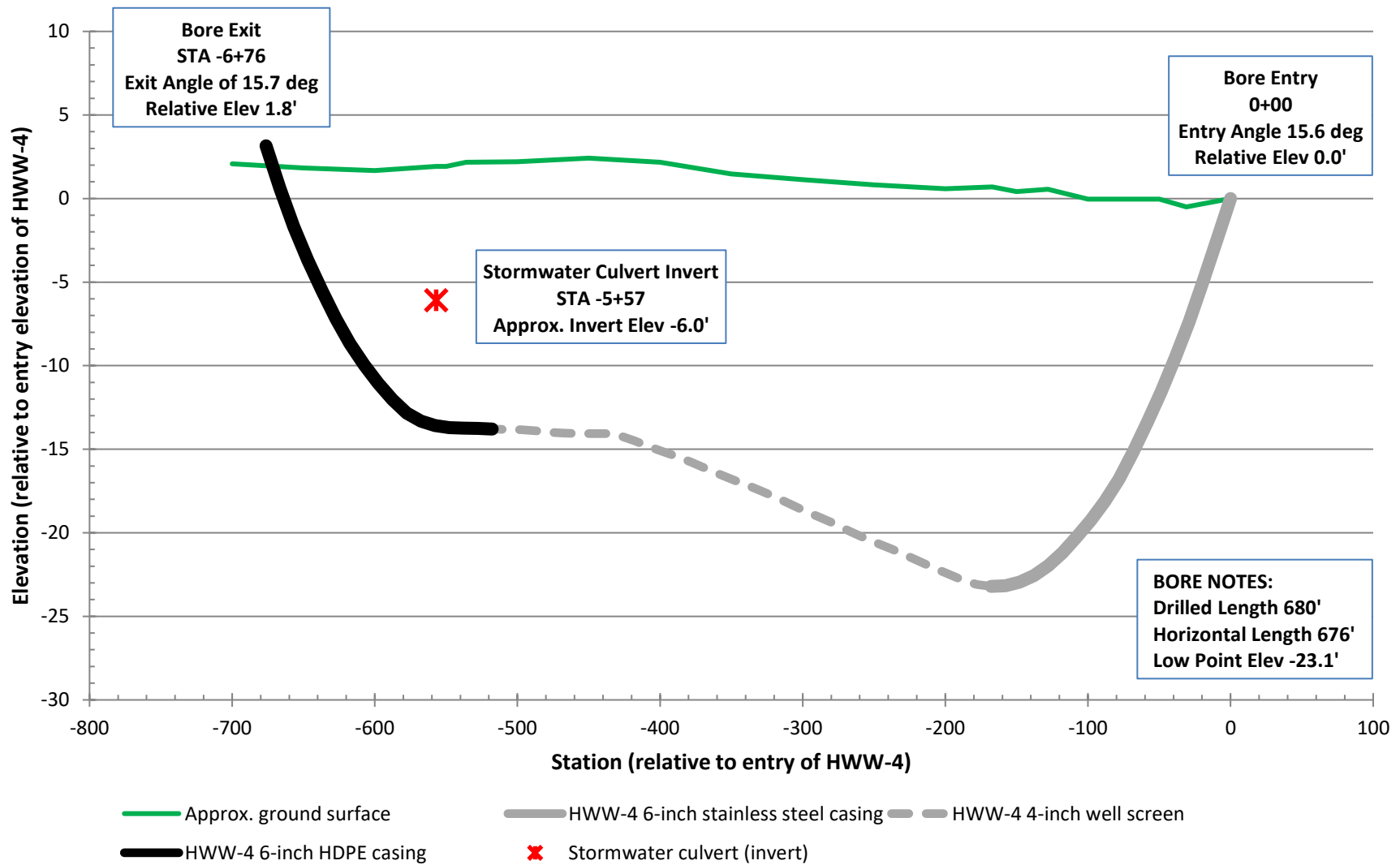
HWW-4



Rig Entry Angle	-15.6	degrees
Elevation at Point of Entry	0	ft
Station at Point of Entry	+	station
Horz distance from Transmitter to Point of Entry	0	ft
Height of Transmitter above Point of Entry	0	ft

Rod	Rod Distance from Vices (ft)	Station (#+###)	Description	Bore Elevation (ft amsl)	Percent Slope (%)	Vertical Angle (degrees)	Horizontal Distance (cumulative ft)	Station (ft)	Calculated Depth (ft below entry)	Bend Radius (ft)
Point of Entry	0	+	ENTRY AT 00+00	0.0	-27.9 %	-15.6	0.0	-274.6	0.0	NA
1	10	+10		-2.5	-24.0 %	-13.5	9.7	-264.9	2.5	273
2	20	+19		-5.0	-27.0 %	-15.1	19.4	-255.2	5.0	358
3	30	+29		-7.4	-22.4 %	-12.6	29.1	-245.5	7.4	229
4	40	+39		-9.5	-21.8 %	-12.3	38.8	-235.8	9.5	1910
5	50	+49		-11.6	-19.6 %	-11.1	48.6	-226.0	11.6	477
6	60	+58		-13.4	-18.2 %	-10.3	58.5	-216.1	13.4	716
7	70	+68		-15.2	-17.5 %	-9.9	68.3	-206.3	15.2	1432
8	80	+78		-16.8	-15.1 %	-8.6	78.2	-196.4	16.8	441
9	90	+88		-18.1	-12.1 %	-6.9	88.1	-186.5	18.1	337
10	100	+98		-19.3	-10.7 %	-6.1	98.0	-176.6	19.3	716
11	110	-1+08		-20.3	-9.6 %	-5.5	108.0	-166.6	20.3	955
12	120	-1+18		-21.2	-8.9 %	-5.1	117.9	-156.7	21.2	1432
13	130	-1+28		-22.0	-6.8 %	-3.9	127.9	-146.7	22.0	477
14	140	-1+38		-22.6	-4.9 %	-2.8	137.9	-136.7	22.6	521
15	150	-1+48		-23.0	-3.0 %	-1.7	147.9	-126.7	23.0	521
16	160	-1+58		-23.2	-1.2 %	-0.7	157.9	-116.7	23.2	573
17	170	-1+68		-23.2	0.3 %	0.2	167.9	-106.7	23.2	637
18	180	-1+78		-23.1	1.9 %	1.1	177.9	-96.7	23.1	637
19	190	-1+88		-22.8	3.5 %	2.0	187.9	-86.7	22.8	637
20	200	-1+98		-22.5	3.7 %	2.1	197.9	-76.7	22.5	5730
21	210	-2+08		-22.1	3.5 %	2.0	207.9	-66.7	22.1	5730
22	220	-2+18		-21.7	4.0 %	2.3	217.8	-56.8	21.7	1910
23	230	-2+28		-21.3	4.0 %	2.3	227.8	-46.8	21.3	Infinite
24	240	-2+38		-21.0	3.3 %	1.9	237.8	-36.8	21.0	1432
25	250	-2+48		-20.6	3.5 %	2.0	247.8	-26.8	20.6	5730
26	260	-2+58		-20.3	3.7 %	2.1	257.8	-16.8	20.3	5730
27	270	-2+68		-19.9	4.0 %	2.3	267.8	-6.8	19.9	2865
28	280	-2+78		-19.5	4.4 %	2.5	277.8	3.2	19.5	2865
29	290	-2+88		-19.1	3.3 %	1.9	287.8	13.2	19.1	955
30	300	-2+98		-18.7	3.7 %	2.1	297.8	23.2	18.7	2865
31	310	-3+08		-18.3	4.5 %	2.6	307.8	33.2	18.3	1146
32	320	-3+18		-17.9	3.5 %	2.0	317.8	43.2	17.9	955
33	330	-3+28		-17.6	3.8 %	2.2	327.8	53.2	17.6	2865
34	340	-3+38		-17.2	3.3 %	1.9	337.8	63.2	17.2	1910
35	350	-3+48		-16.9	3.5 %	2.0	347.8	73.2	16.9	5730
36	360	-3+58		-16.5	3.3 %	1.9	357.7	83.1	16.5	5730
37	370	-3+68		-16.2	3.8 %	2.2	367.7	93.1	16.2	1910
38	380	-3+78		-15.8	3.7 %	2.1	377.7	103.1	15.8	5730
39	390	-3+88		-15.4	3.1 %	1.8	387.7	113.1	15.4	1910
40	400	-3+98		-15.2	2.6 %	1.5	397.7	123.1	15.2	1910
41	410	-4+08		-14.8	3.5 %	2.0	407.7	133.1	14.8	1146
42	420	-4+18		-14.5	3.6 %	2.1	417.7	143.1	14.5	11459
43	430	-4+28		-14.2	2.3 %	1.3	427.7	153.1	14.2	764
44	440	-4+38		-14.1	0.3 %	0.2	437.7	163.1	14.1	521
45	450	-4+48		-14.1	-0.3 %	-0.2	447.7	173.1	14.1	1432
46	460	-4+58		-14.1	0.5 %	0.3	457.7	183.1	14.1	1146
47	470	-4+68		-14.0	0.0 %	0.0	467.7	193.1	14.0	1910
48	480	-4+78		-14.0	0.9 %	0.5	477.7	203.1	14.0	1146
49	490	-4+88		-13.9	1.0 %	0.6	487.7	213.1	13.9	5730
50	500	-4+98		-13.8	0.3 %	0.2	497.7	223.1	13.8	1432
51	510	-5+08		-13.8	0.0 %	0.0	507.7	233.1	13.8	2865
52	520	-5+18		-13.8	0.3 %	0.2	517.7	243.1	13.8	2865
53	530	-5+28		-13.7	0.5 %	0.3	527.7	253.1	13.7	5730
54	540	-5+38		-13.7	-0.2 %	-0.1	537.7	263.1	13.7	1432
55	550	-5+48		-13.7	0.5 %	0.3	547.7	273.1	13.7	1432
56	560	-5+58		-13.6	2.1 %	1.2	557.7	283.1	13.6	637
57	570	-5+68		-13.3	3.1 %	1.8	567.7	293.1	13.3	955
58	580	-5+78		-12.8	6.6 %	3.8	577.7	303.1	12.8	286
59	590	-5+88		-12.0	9.5 %	5.4	587.7	313.1	12.0	358
60	600	-5+98		-11.1	10.2 %	5.8	597.6	323.0	11.1	1432
61	610	-6+08		-9.9	12.1 %	6.9	607.5	332.9	9.9	521
62	620	-6+17		-8.7	13.7 %	7.8	617.5	342.9	8.7	637
63	630	-6+27		-7.2	16.4 %	9.3	627.4	352.8	7.2	382
64	640	-6+37		-5.5	18.0 %	10.2	637.2	362.6	5.5	637
65	650	-6+47		-3.7	18.7 %	10.6	647.0	372.4	3.7	1432
66	660	-6+57		-1.7	22.2 %	12.5	656.8	382.2	1.7	302
67	670	-6+67		0.6	24.7 %	13.9	666.6	392.0	-0.6	409
68	680	-6+76		3.2	28.1 %	15.7	676.2	401.6	-3.2	318

HWW-4
HDD installing 6" casing and 4" screen
CSX Rice Yard - Waycross, GA
Prepared by Directed Technologies Drilling



Well Completion Data Form

Report Completion Date: 6-17-2019

For ☐ New Construction ☐ Under Repair/Modification ☐ Completed ☐ Abandoned Wells

Property Owner Information

Property Owner Name: CSX Transportation	Phone:	Email:
Company / Farm / Municipality / Water System Name:		
Address: 601 Haines Avenue	Waycross	GA 31501
(No. and Street)	(City)	(State) (Zip)

Well Contractor Information

Onsite Well Driller Name: Mike Sequino	License No.	Phone: 877-788-4479
Well Contractor Company Name: Directional Technologies, Inc.		
Address: 130 S. Geronimo Street, Suite 1	Miramar Beach	FL 32550
(No. and Street)	(City)	(State) (Zip)
Drilling under direction of Professional Geologist or Engineer Name: Jeff Beckner		License No. 744

Well Information

<input type="checkbox"/> Public Drinking <input type="checkbox"/> Municipal <input type="checkbox"/> Industrial <input type="checkbox"/> Agricultural / Irrigation Well <input type="checkbox"/> Bore/core hole <input checked="" type="checkbox"/> Dewatering <input type="checkbox"/> Individual Drinking <input type="checkbox"/> Geothermal <input type="checkbox"/> Test / Monitoring <input type="checkbox"/> Injection <input type="checkbox"/> Other Well Type:	
Well Application or Permit Number: N/A	Facility or Public Water System ID: CSX Rice Yard Well Number: HW-5
<input type="checkbox"/> Permit/Concurrence Letter On-site	
County where well is located: Ware	Latitude: 31.198479 N Longitude: 82.361893 W Elevation: 139

Well Construction Description

Well Drilling Information

Total depth of well: 45 ft. BLS	<input type="checkbox"/> Rotary	<input type="checkbox"/> Percussion	<input type="checkbox"/> Bored
Static water level: _____ ft. BLS Date SWL measured: _____	<input type="checkbox"/> Jetted	<input type="checkbox"/> Auger	<input type="checkbox"/> Cable Tool
Date Drilled: _____	<input checked="" type="checkbox"/> Horizontal	<input type="checkbox"/> Hand-Driven	<input type="checkbox"/> Hydraulic Pt.
Drilling Start Time: _____	<input checked="" type="checkbox"/> Drilling Fluid Used	Type Fluid: biodegradable polymer & bentonite	
Drill Hole Diameter			
Size 10 in., from 0 ft. to 1,020 ft.	Grouting (<input checked="" type="checkbox"/> as applicable)		
Size _____ in., from _____ ft. to _____ ft.	Method: <input type="checkbox"/> Casing <input checked="" type="checkbox"/> Tremie <input type="checkbox"/> Packer <input type="checkbox"/> Halliburton <input type="checkbox"/> Under Pressure		
Size _____ in., from _____ ft. to _____ ft.	Type: <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> Other: _____		
Size _____ in., from _____ ft. to _____ ft.	<input checked="" type="checkbox"/> Present From _____ ft. to _____ ft. From _____ ft. to _____ ft.		

Casing Record (☒ as applicable)

Primary: <input type="checkbox"/> Black Steel <input type="checkbox"/> Galvanized <input checked="" type="checkbox"/> Stainless <input type="checkbox"/> PVC-NSF Rated	Pump Type: Grundfos
<input type="checkbox"/> PVC <input type="checkbox"/> Not Cased <input type="checkbox"/> Other: _____	Pump Diameter: 4" Outlet size: 1.25"
Secondary: <input type="checkbox"/> Telescope <input type="checkbox"/> Liner <input type="checkbox"/> Surface Casing	Motor HP: 0.75 Motor RPM: _____
Wall Thickness _____ in.	Pump Capacity: 12 GPM Total Dynamic Head: _____ ft.
Weight per foot _____ SDR _____	Pump Set at: 45 ft. Pump Disinfected: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Size: 6 in., from 0 ft. to 260 ft.	Meter Installed: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Meter Size & Rating: _____
Size: 6 in., from 760 ft. to 1020 ft.	Casing Vent: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Sample Tap: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Size: _____ in., from _____ ft. to _____ ft.	Air Line: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Depth _____ ft. Diameter _____ in.
Size: _____ in., from _____ ft. to _____ ft.	Chemigation check valve installed: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Well Screen and Filter Pack (if installed)

Type material Stainless Steel - Pipe Base with Stainless Jacket	Test Pump Data (<input checked="" type="checkbox"/> as applicable)
Size: 4 in., from 260 ft. to 760 ft.	Date Tested: _____ Static water level: _____ ft. BLS
Size: _____ in., from _____ ft. to _____ ft.	Test Pump Rated: _____ GPM _____ HP
Size: _____ in., from _____ ft. to _____ ft.	Total Continuous Hours Tested: _____
Size: _____ in., from _____ ft. to _____ ft.	Water Level Stabilized: <input type="checkbox"/> Yes <input type="checkbox"/> No
Type Filter (Gravel) Pack N/A Disinfected: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Hours before Stabilization: _____ Sustained Yield: _____ GPM
Filter Pack from _____ ft. to _____ ft.	Total Drawdown: _____ ft. Specific Capacity: _____ GPM/ft.
Filter Pack from _____ ft. to _____ ft.	Pumping Water Level: _____ ft.
Filter Pack to Formation Ratio: _____ Uniformity Coeff: _____	Number of Minutes to Recover: _____
	Well Developed: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Well Disinfected: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



Protection from Pollutants (☑ if done)☒ Drill cuttings, materials removed ☐ Well disinfected

- | | | |
|--|--|---|
| <input type="checkbox"/> Upgradient from pollutant sources | <input checked="" type="checkbox"/> Drill cuttings, materials removed | <input type="checkbox"/> Well disinfected |
| <input type="checkbox"/> >10 ft. sewer line <input type="checkbox"/> > 50 ft. septic tank | <input checked="" type="checkbox"/> Casing, liner pipe joints watertight | <input type="checkbox"/> Sanitary seal |
| <input type="checkbox"/> >150 ft. seep pit <input type="checkbox"/> > 100 ft. septic drain field | <input checked="" type="checkbox"/> Grouted to 10 ft. (Individual) 20-50 ft. (Irrigation, Nonpublic) | |
| <input type="checkbox"/> > 100 ft. animal enclosure <input type="checkbox"/> protected from runoff | <input checked="" type="checkbox"/> Concrete Curbed/Pad > 4 in. thick, extend > 2 ft., sloped | |
| <input type="checkbox"/> casing > 2 ft. above floodplain or highest known flood | <input type="checkbox"/> Gravel/Filter pack washed, disinfected | |
| <input type="checkbox"/> Water-bearing formations sealed if likely to be polluted | <input checked="" type="checkbox"/> Casing material new or meets national standards | |
| <input type="checkbox"/> Health Dept. notified <input type="checkbox"/> Health Dept. variance | <input checked="" type="checkbox"/> Well screen – optimal development, low head loss & clog | |
| | <input checked="" type="checkbox"/> Drilling equipment steam cleaned | |

[illegible]

This well was drilled and constructed (or plugged/abandoned, if applicable) in accordance with the Georgia Water Well Standards Act, O.C.G.A. 12-5-120 *et seq.*, Georgia Groundwater Use Act, O.C.G.A. 12-5-90 *et seq.* and 12-5-105 *et seq.*, Georgia Safe Drinking Water Act, O.C.G.A. 12-5-170 *et seq.*, and applicable Georgia Department of Natural Resources' rules, regulations and guidance documents.

I certify that the information on this form (Pages 1 and 2) is correct and true to the best of my knowledge.

	72151596 (GA Bond Number)	6/17/2019
Signature of Licensed Well Contractor's Name	License Number	Date
	PG 744	6/17/19
Signature of Licensed Geologist/Engineer's Name	License Number	Date

As-Built Horizontal Well Diagram

Well: HWW-5

CSX / Arcadis - Rice Yard - Waycross, Georgia

Length (ft)

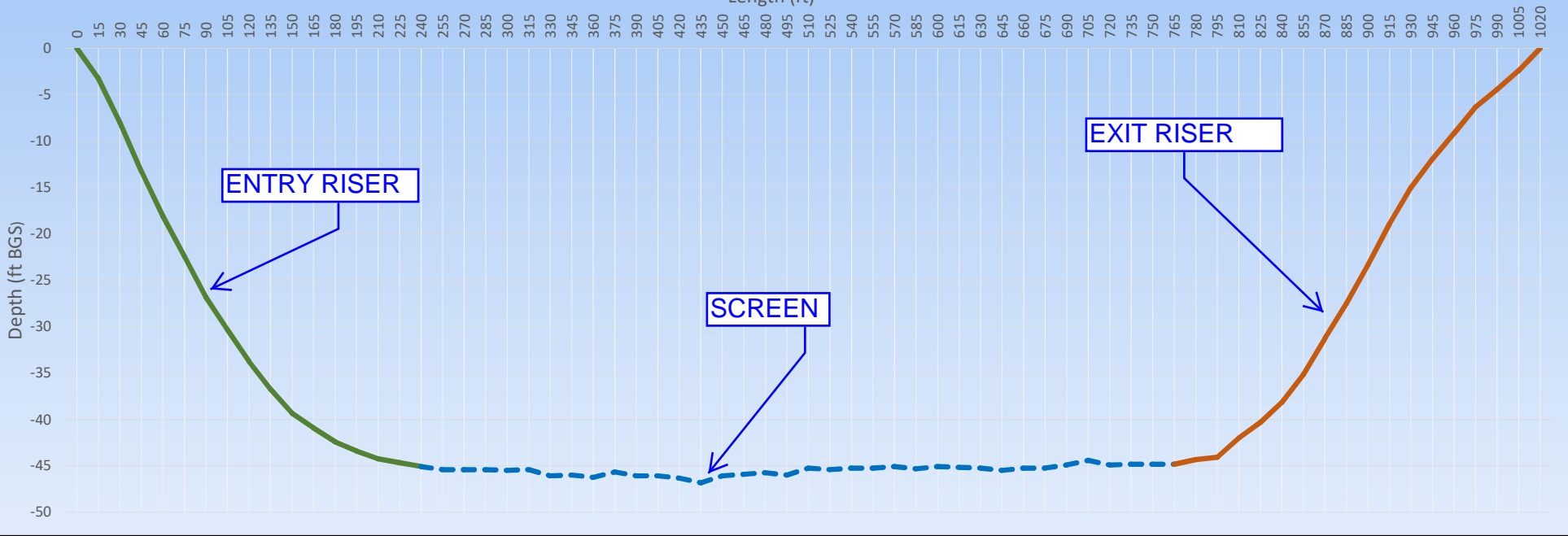


Table 1
As-Built Horizontal Well Navigation Data
Well: HWW-5
CSX / Arcadis - Rice Yard - Waycross, Georgia

Driller:	Brandon Geoffroy	Length of Borehole (Horizontal):	1,020 ft
Rig:	DW JT 100	Entry Riser Lenth:	260 ft
Rod Length:	15 ft	Screen Length:	500 ft
Well Screen Material:	4-inch Stainless Steel	Exit Riser Length:	260 ft

Rod #	Length of Borehole (ft)	Depth (ft BGS)	Pitch (percent)
Entry Riser - 6-inch stainless steel (0 ft to 260 ft)	0	0	-30
	1	15	-3.25
	2	30	-8.00
	3	45	-13.25
	4	60	-18.08
	5	75	-22.42
	6	90	-26.83
	7	105	-30.33
	8	120	-33.75
	9	135	-36.75
	10	150	-39.33
	11	165	-40.92
	12	180	-42.42
	13	195	-43.42
	14	210	-44.25
	15	225	-44.67
	16	240	-45.08
Screen Section - 4-inch stainless steel (260 ft to 760 ft)	17	255	-45.42
	18	270	-45.42
	19	285	-45.42
	20	300	-45.50
	21	315	-45.42
	22	330	-46.08
	23	345	-46.00
	24	360	-46.25
	25	375	-45.67
	26	390	-46.08
	27	405	-46.08
	28	420	-46.33
	29	435	-46.83
	30	450	-46.08
	31	465	-45.92
	32	480	-45.75
	33	495	-46.00
	34	510	-45.25
	35	525	-45.42
	36	540	-45.25
	37	555	-45.25
	38	570	-45.08
	39	585	-45.33
	40	600	-45.08
	41	615	-45.17
	42	630	-45.25

Table 1
As-Built Horizontal Well Navigation Data
Well: HWW-5
CSX / Arcadis - Rice Yard - Waycross, Georgia

Driller:		Brandon Geoffroy	Length of Borehole (Horizontal):	1,020 ft
Rig:		DW JT 100	Entry Riser Lenth:	260 ft
Rod Length:		15 ft	Screen Length:	500 ft
Well Screen Material:		4-inch Stainless Steel	Exit Riser Length:	260 ft
Rod #		Length of Borehole (ft)	Depth (ft BGS)	Pitch (percent)
Screen Section - 4-inch stainless steel (260 ft to 760 ft)	43	645	-45.50	-0.1
	44	660	-45.25	+0.5
	45	675	-45.25	+0.3
	46	690	-44.92	+0.2
	47	705	-44.42	-0.7
	48	720	-44.92	+0.4
	49	735	-44.83	+1.6
	50	750	-44.83	+0.7
51	765	-44.83	+1.8	
Exit Riser - 6-inch HDPE (760 ft to 1,020 ft)	52	780	-44.33	+2.6
	53	795	-44.08	+6.8
	54	810	-42.00	+8.4
	55	825	-40.33	+13
	56	840	-38.17	+17
	57	855	-35.17	+20
	58	870	-31.25	+24
	59	885	-27.50	+25
	60	900	-23.33	+26
	61	915	-18.92	+25
	62	930	-15.00	+22
	63	945	-11.92	+18
	64	960	-9.17	+16
	65	975	-6.33	+15
	66	990	-4.42	+14
	67	1005	-2.42	+14
	68	1020	0.00	+14



eder associates
environmental scientists and engineers
Locust Valley, NY; Ann Arbor, MI; Madison WI, Augusta, GA;
Jacksonville FL; Tampa, FL; Trenton, NJ; Stoneham, MA

BORING & WELL CONSTRUCTION LOG

Client/Project Number: CSXT\560-58

Project Name & Location: CSXT Waycross, Georgia

Logged By: G. Bonn

Approved By: C. Mattair

Contractor/Driller: GW Protection

Drilling Method & Rig: Hollow Stem Auger

Well Location: Adjacent to MW-63.

Purpose: Extraction Well

Sampler Type: Split Spoon, 2" diameter, 2' long

Water Level Measured (Date & Time):

Remarks: Well developed by swabbing with a surge block for 1 hr. and treating with barophos. Well was purged for 1 hr. with a centrifugal pump.

Date(s): 04/02/96 - 04/02/96

Well ID: WW-19

Surface Elevation: 136.50'

Datum: Mean Sea Level

Total Borehole Depth: 35.00'

Well Completion Depth: 35.00'

Depth to Water:

Borehole Dia.: 10.00in

Conductor Casing:
type:

dia: .00in fm: .00' to: .00'

Solid Pipe
type: PVC

dia: 4.00in fm: .5' to: 20.00'

Screens:

type: Wire-wrap size: .020in dia: 4.00in fm: 20.00' to: 30.00'

Annular Fill:

type: Grout fm: 1.00' to: 16.00'

type: Bentonite fm: 16.00' to: 18.00'

type: Sand Filter fm: 18.00' to: 35.00'

type: fm: to:

type: fm: to:

Elevation (ft)	Depth (ft)	Sample ID/ Interval	Vapor	Moisture	Recovery	Blow Count	Graphic Log	USCS Code	Material Description	Well Construction
									Trace = 0-10% Little = 10-20% Some = 20-30% And = 35-50% D - dry, M - moist, S - saturated	MP. EL. 136.00
				M				GW/GC	0-2' Limestone gravel and sand fill. Dark brown, homogeneous.	
								SC	2-4' VF-F sand with 20% silty clay. Brown, homogeneous, soft.	
									4.5-6' VF-F sand with 30% silty clay. Gray, orange, mottled, homogeneous with a few 3-in. dia. iron concretions, no odor.	
130	5	4-6		M		2367				
								SC/CL	9.5-10.8' VF-M sand with 40% silty clay. Red, yellow, white, homogeneous, becomes laminated at 10.8', grain size decreasing with depth, semi-dense, no odor.	
	10	9-11		M		611910		CL	10.8-11' Silty clay with 30% VF-F sand. Light gray, white, weakly laminated, semi-dense.	
								SC	14.4-14.8' F-C sand with 25% silty clay. Red, homogeneous, semi-dense, abrupt contact at 14.8'.	
120	15	14-16		M		3223			14.8-16' VF-F sand with 35% silty clay. Pink, weak interlayered bedding, soft.	
									19.2-21' VF-VC sand with a trace of granular sand and 20% silty clay. Pink, homogeneous, soft.	
	20	19-21		S		32234				
								CL	24.6-24.8' F-C sand with 30% silty clay. Red, weakly bedded, semi-dense.	
									24.8-26' Silty clay with 30% F-C sand. Pink, gray, contains a few thin beds of sand, semi-dense, no odor.	
110	25	24-26		M		4479			28.2-29' VF-M sand with 20% silty clay. Orange, yellow, weak interlayered bedding, semi-dense.	
								SC	29-29.7' Silty clay with 10% VF-C sand. Gray, homogeneous, semi-dense.	
								CL	29.7-30' F-C sand with 20% silty clay. Gray, weakly bedded, semi-dense.	
	28-30			S		351010		SC		



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BORING & WELL CONSTRUCTION LOG

Date(s): 04/02/96 - 04/02/96

Well ID: **WW-19**

Client/Project Number: CSXT\560-58

Surface Elevation: 136.50'

Datum: Mean Sea Level

Project Name & Location: CSXT Waycross, Georgia

Total Borehole Depth: 35.00'

Well Completion Depth: 35.00'

Logged By: G. Bonn

Approved By: C. Mattair

Depth to Water:

Borehole Dia.: 10.00in

Contractor/Driller: GW Protection

Conductor Casing:

type: dia: .00in fm: .00' to: .00'

Drilling Method & Rig: Hollow Stem Auger

Solid Pipe

type: PVC dia: 4.00in fm: .5' to: 20.00'

Well Location: Adjacent to MW-63.

Purpose: Extraction Well

Screens:

type: Wire-wrap size: .020in dia: 4.00in fm: 20.00' to: 30.00'

Sampler Type: Split Spoon, 2" diameter, 2' long

Annular Fill:

type: Grout fm: 1.00' to: 16.00'

type: Bentonite fm: 16.00' to: 18.00'

type: Sand Filter fm: 18.00' to: 35.00'

type: fm: to:

type: fm: to:

Water Level Measured (Date & Time):

Remarks: Well developed by swabbing with a surge block for 1 hr. and treating with baraphos. Well was purged for 1 hr. with a centrifugal pump.

Elevation (ft)	Depth (ft)	Sample ID/ Interval	Vapor	Moisture	Recovery	Blow Count	Graphic Log	USCS Code	Material Description Trace = 0-10% Little = 10-20% Some = 20-30% And = 35-50% D - dry, M - moist, S - saturated	Well Construction
		32-34				5 10 14			32.8-34' F-VC sand with 35% silty clay. Gray, orange, homogeneous, very dense.	
	35									
100										
	40									
	45									
90										
	50									
	55									
80										



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BORING & WELL CONSTRUCTION LOG

Client/Project Number: CSXT\560-58

Date(s): 04/02/96 - 04/02/96

Well ID: WW-20

Project Name & Location: CSXT Waycross, Georgia

Surface Elevation: 139.00'

Datum: Mean Sea Level

Total Borehole Depth: 37.00'

Well Completion Depth: 37.00'

Logged By: T. Fuller

Approved By: C. Mattair

Depth to Water:

Borehole Dia.: 10.00in

Contractor/Driller: GW Protection

Conductor Casing:

type: dia: .00in fm: .00' to: .00'

Drilling Method & Rig: Hollow Stem Auger

Solid Pipe

type: PVC dia: 4.00in fm: .5' to: 22.00'

Well Location: 30'southwest of MW-59.

Purpose: Extraction Well

Screens:

type: Wire-wrap size: .020in dia: 4.00in fm: 22.00' to: 32.00'

Sampler Type: Split Spoon, 2" diameter, 2' long.

Annular Fill:

type: Grout fm: 1.00' to: 18.00'

type: Bentonite fm: 18.00' to: 20.00'

type: Sand Filter fm: 20.00' to: 37.00'

type: fm: to:

type: fm: to:

Water Level Measured (Date & Time):

Remarks: Well developed by swabbing with a surge block for 1 hour and treating with baraphos. Well was purged for 1 hr. with a centrifugal pump.

Elevation (ft)	Depth (ft)	Sample ID/Interval	Vapor	Moisture	Recovery	Blow Count	Graphic Log	USCS Code	Material Description Trace = 0-10% Little = 10-20% Some = 20-30% And = 35-50% D - dry, M - moist, S - saturated	Well Construction MP. EL. 138.50
								GP	0-2' Granite balast fill. Dark brown, block.	
				D				SP/SC	2-4' F-M sand with 10% silty clay. Tan, brown.	
	5	4-6		M		4		SC	5.6-6' Fine sand with 25% silty clay. Rust orange, tan, firm.	
130	10	9-11		D		4 6 10 12		SC/CL	9-11' Fine sand with 45% silty clay. Orange, mottled, homogeneous.	
	15	14-16		M		6 8 10		SC	14-16' VF-F sand with 30% silty clay. Light gray, orange, pink, mottled, homogeneous, firm.	
120	20	19-21		S		4 3 6 7			19-20' Same as 14-16'.	
									20-21' VF-F sand with 15% silty clay. Light gray, soft.	
	22	22-24		S		2 3 5			22-24' F-M sand with 10% silty clay. Light gray, tan, cream, white, grain size increases with depth.	
25	24	24-26		S		1 1 1		SW/SC	24-26' F-C sand with 10% silty clay. Light gray, orange, weakly laminated, clay content increasing with depth.	
	26	26-28		S		2 2 4 5 3 4 4		SC	26-27' F-M sand with 20% silty clay. Light gray, cream, soft.	
									27-28' M-C sand with some pea gravel and clay. Light gray, cream.	
									28-29' VF-F sand with a little silty clay. Light gray, soft.	
110	28	28-30		S					29-30' F-C sand with a little pea gravel and silty clay. Light gray, soft.	



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BORING & WELL CONSTRUCTION LOG

Client/Project Number: CSXT\560-58		Surface Elevation: 139.00'	Datum: Mean Sea Level
Project Name & Location: CSXT Waycross, Georgia		Total Borehole Depth: 37.00'	Well Completion Depth: 37.00'
Logged By: T. Fuller	Approved By: C. Mattair	Depth to Water:	Borehole Dia.: 10.00in
Contractor/Driller: GW Protection		Conductor Casing: type: dia: .00in fm: .00' to: .00'	
Drilling Method & Rig: Hollow Stem Auger		Solid Pipe type: PVC dia: 4.00in fm: .5' to: 22.00'	
Well Location: 30'southwest of MW-59.		Screens: type: Wire-wrap size: .020in dia: 4.00in fm: 22.00' to: 32.00'	
Purpose: Extraction Well		Annular Fill: type: Grout fm: 1.00' to: 18.00' type: Bentonite fm: 18.00' to: 20.00' type: Sand Filter fm: 20.00' to: 37.00' type: fm: to: type: fm: to:	
Sampler Type: Split Spoon, 2" diameter, 2' long.			
Water Level Measured (Date & Time):			
Remarks: Well developed by swabbing with a surge block for 1 hour and treating with barophos. Well was purged for 1 hr. with a centrifugal pump.			

Elevation (ft)	Depth (ft)	Sample ID/ Interval	Vapor	Moisture	Recovery	Blow Count	Graphic Log	USCS Code	Material Description Trace = 0-10% Little = 10-20% Some = 20-30% And = 35-50% D - dry, M - moist, S - saturated	Well Construction
		30-32		S		5		CL	30-31.5' F-C sand with 20% silty clay. Light gray, orange, clay lenses in sand.	
		32-34		D		9			31.5-32' Silty clay. Light gray.	
	35								32-34' Silty clay with 20% sand. Light gray, green, hard.	
	40									
	45									
	50									
	55									
	60									
	65									
	70									
	75									
	80									



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BORING & WELL CONSTRUCTION LOG

Date(s): 04/02/96 - 04/03/96

Well ID: WW-21

Client/Project Number: CSXT\560-58

Surface Elevation: 139.00'

Datum: Mean Sea Level

Project Name & Location: CSXT Waycross, Georgia

Total Borehole Depth: 38.00'

Well Completion Depth: 38.00'

Logged By: G. Bonn

Approved By: C. Mattair

Depth to Water:

Borehole Dia.: 10.00in

Contractor/Driller: GW Protection

Conductor Casing:

type: dia: .00in fm: .00' to: .00'

Drilling Method & Rig: Hollow Stern Auger

Solid Pipe

type: PVC dia: 4.00in fm: .5' to: 23.00'

Well Location: 100' south of MW-67.

Purpose: Extraction Well

Screens:

type: Wire-wrap size: .020in dia: 4.00in fm: 23.00' to: 33.00'

Sampler Type: Split Spoon, 2" diameter, 2' long.

Water Level Measured (Date & Time):

Annular Fill:

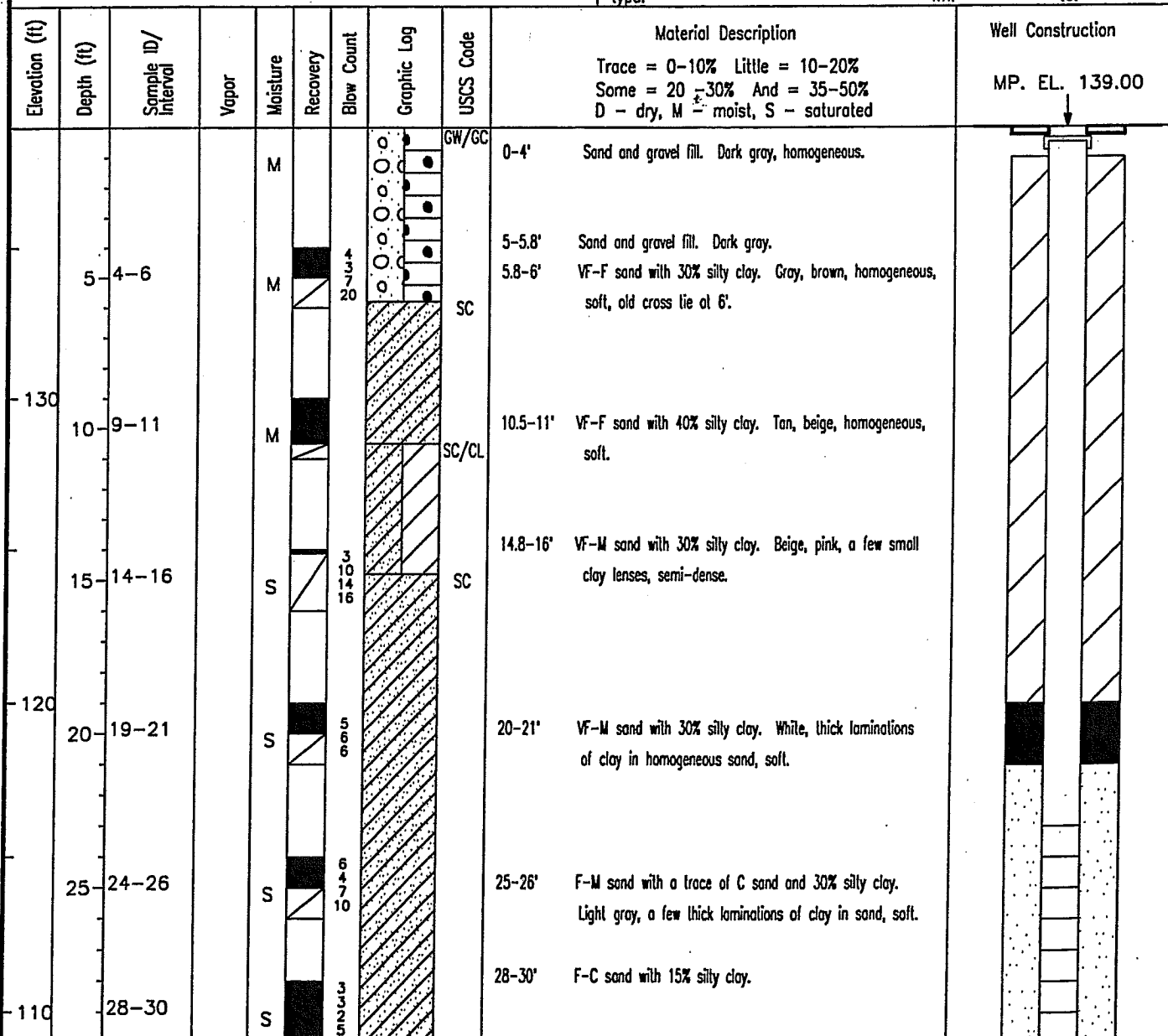
type: Grout fm: 1.00' to: 19.00'

type: Bentonite fm: 19.00' to: 21.00'

type: Sand Filter fm: 21.00' to: 38.00'

type: fm: to:

Remarks: Well developed by swabbing with a surge block for 1 hr. and treating with barophos. Well was purged for 1 hr. with a centrifugal pump.





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BORING & WELL CONSTRUCTION LOG

Date(s): 04/02/96 - 04/03/96

Well ID: WW-21

Client/Project Number: CSXT\560-58

Surface Elevation: 139.00'

Datum: Mean Sea Level

Project Name & Location: CSXT Waycross, Georgia

Total Borehole Depth: 38.00'

Well Completion Depth: 38.00'

Logged By: G. Bonn

Approved By: C. Mattair

Depth to Water:

Borehole Dia.: 10.00in

Contractor/Driller: GW Protection

Conductor Casing:
type:

dia: .00in fm: .00' to: .00'

Drilling Method & Rig: Hollow Stem Auger

Solid Pipe
type: PVC

dia: 4.00in fm: .5' to: 23.00'

Well Location: 100' south of MW-67.

Purpose: Extraction Well

Screens:

type: Wire-wrap size: .020in dia: 4.00in fm: 23.00' to: 33.00'

Sampler Type: Split Spoon, 2" diameter, 2' long.

Water Level Measured (Date & Time):

Annular Fill:

type: Grout fm: 1.00' to: 19.00'

type: Bentonite fm: 19.00' to: 21.00'

type: Sand Filter fm: 21.00' to: 38.00'

type: fm: to:

Remarks: Well developed by swabbing with a surge block for
1 hr. and treating with baraphos. Well was
purged for 1 hr. with a centrifugal pump.

Elevation (ft)	Depth (ft)	Sample ID/ Interval	Vapor	Moisture	Recovery	Blow Count	Graphic Log	USCS Code	Material Description	Well Construction
									Trace = 0-10% Little = 10-20% Some = 20-30% And = 35-50% D - dry, M - moist, S - saturated	
	32-34			S		6 3 4		CL		
	35									
	40									
	45									
	50									
	55									
	60									
	65									
	70									
	75									
	80									



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BORING & WELL CONSTRUCTION LOG

Client/Project Number: CSXT\560-58		Surface Elevation: 138.00'	Datum: Mean Sea Level
Project Name & Location: CSXT Waycross, Georgia		Total Borehole Depth: 44.00'	Well Completion Depth: 44.00'
Logged By: T. Fuller	Approved By: C. Mattair	Depth to Water:	Borehole Dia.: 10.00in
Contractor/Driller: GW Protection		Conductor Casing: type: dia: .00in fm: .00' to: .00'	
Drilling Method & Rig: Hollow Stem Auger		Solid Pipe type: PVC dia: 4.00in fm: .5' to: 29.00'	
Well Location: 240' west of MW-54		Screens: type: Wire-wrap size: .020in dia: 4.00in fm: 29.00' to: 39.00'	
Purpose: Extraction Well		Annular Fill: type: Grout fm: 1.00' to: 25.00'	
Sampler Type: Split Spoon, 2" diameter, 2' long.		type: Bentonite fm: 25.00' to: 27.00'	
Water Level Measured (Date & Time):		type: Sand Filter fm: 27.00' to: 44.00'	
Remarks: Well developed by swabbing with a surge block for 1 hr. and treating with baraphos. Well was purged for 1 hr. with a centrifugal pump.		type: fm: to:	

Elevation (ft)	Depth (ft)	Sample ID/Interval	Vapor	Moisture	Recovery	Blow Count	Graphic Log	USCS Code	Material Description Trace = 0-10% Little = 10-20% Some = 20-30% And = 35-50% D - dry, M ⁺ - moist, S - saturated	Well Construction MP. EL. 137.50
138	0-4			D		1		GP	0-4' Granite balast and F-C sand fill. Dark brown, black,	
130	5-6			D		10		SP/SC	5-6' VF-F sand with 10% silty clay. Dark brown, black, contains slag fragments up to 1-in. dia., soft.	
120	10-11			S		13		SC	10-11' VF-F sand with 20% silty clay. Gray, tan.	
	14-16			M		10		SC/CL	14-16' VF-F sand with 40% silty clay. Light gray, firm.	
	19-21			M		6		SC	19-21' VF-F sand with 30% silty clay. Light gray, cream, interlayered and lenticular bedding, soft, 1-in. thick clay lens at 20'.	
	22-24			M		12			22-24' F-M sand with 25% silty clay. Light gray, soft, 3-in. thick clay lens present.	
	24-26			S		6			24-26' F-M sand with 25% silty clay. Light gray, soft.	
	26-28			S		10			26-28' Same as 24-26'	
110	28-30			M		20		GP	28-30' Phosphonite. Black, homogeneous, porous, fossiliferous limestone replaced with phosphate, very hard, trace of pyrite.	

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BORING & WELL CONSTRUCTION LOG

Date(s): 04/03/96 - 04/03/96

Well ID: WW-22

Client/Project Number: CSXT\560-58

Surface Elevation: 138.00'

Datum: Mean Sea Level

Project Name & Location: CSXT Waycross, Georgia

Total Borehole Depth: 44.00'

Well Completion Depth: 44.00'

Logged By: T. Fuller

Approved By: C. Mattair

Depth to Water:

Borehole Dia.: 10.00in

Contractor/Driller: GW Protection

Conductor Casing:

type: dia: .00in fm: .00' to: .00'

Drilling Method & Rig: Hollow Stem Auger

Solid Pipe

type: PVC dia: 4.00in fm: .5' to: 29.00'

Well Location: 240' west of MW-54

Purpose: Extraction Well

Screens:

type: Wire-wrap size: .020in dia: 4.00in fm: 29.00' to: 39.00'

Sampler Type: Split Spoon, 2" diameter, 2' long.

Annular Fill:

type: Grout **fm:** 1.00' **to:** 25.00'

Water Level Measured (Date & Time):

type: Bentonite

type: Sand Filter	fm: 27.00'	to: 44.00'
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Remarks: Well developed by swabbing with a surge block for 1 hr. and treating with baraphos. Well was purged for 1 hr. with a centrifugal pump.

type:

type: fm: to:

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405</
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BORING & WELL CONSTRUCTION LOG

Client/Project Number: CSXT\560-58		Surface Elevation: 138.00'	Datum: Mean Sea Level
Project Name & Location: CSXT Waycross, Georgia		Total Borehole Depth: 35.00'	Well Completion Depth: 35.00'
Logged By: T. Fuller	Approved By: C. Mattair	Depth to Water:	Borehole Dia.: 10.00in
Contractor/Driller: GW Protection		Conductor Casing: type: dia: .00in fm: .00' to: .00'	
Drilling Method & Rig: Hollow Stem Auger		Solid Pipe type: PVC dia: 4.00in fm: .5' to: 20.00'	
Well Location: 300' south of MW-39.		Screens: type: Wire-wrap size: .020in dia: 4.00in fm: 20.00' to: 30.00'	
Purpose: Extraction Well		Annular Fill: type: Grout fm: 1.00' to: 16.00'	
Sampler Type: Split Spoon, 2" diameter, 2' long.		type: Bentonite fm: 16.00' to: 18.00'	
Water Level Measured (Date & Time):		type: Sand Filter fm: 18.00' to: 35.00'	
Remarks: Well developed by swabbing with a surge block for 1 hr. and treating with baraphos. Well was purged for 1 hr. with a centrifugal pump.		type: fm: to:	

Elevation (ft)	Depth (ft)	Sample ID/Interval	Vapor	Moisture	Recovery	Blow Count	Graphic Log	USCS Code	Material Description	Well Construction
									Trace = 0-10% Little = 10-20% Some = 20-30% And = 35-50% D - dry, M - moist, S - saturated	MP. EL. 137.50
				D				GP/GC	0-4' F-M sand with slag fragments, limestone fill, and clay.	
	5	4-6		D		4 5 4		SP/SC	5-6' F-M sand with 10% silty clay. Dark brown, black, orange, homogeneous, soil.	
130	10	9-11		S		13 7 5			10.5-11' F-M sand with 10% silty clay. Gray, tan, homogeneous, soil.	
	15	14-16		D		4 5 7 10		SC/CL	14-16' F sand with 40% silty clay. Orange, light gray, interlayered bedding, firm, 2-in. thick organic hardpan at 14.5'.	
120	20	19-21		S		4 4 4 10		SC	19-21' F sand with 20% silty clay. Light gray, interlayered bedding, soft, 1-in. thick dark brown hardpan at 19.5'.	
	25	24-26		S		5 5 4 4		SW/SC	25-26' F-C sand with 10% silty clay. Light gray, grain size increasing with depth, soft, 2-in. thick beds of hardpan and clay at 25'.	
	26	26-28		S		3 2 2 3		SC	26-27' VF-F sand with 15% silty clay. Light gray, coarsens with depth.	
				S		6 3 3 5		CL	27-28' Silty clay with 40% F-C sand. Light gray.	
110								SC	28-29' VF-F sand with 15% silty clay. Light gray, soft.	
		28-30		M					29-30' VF-F sand with 40% silty clay. Light gray, interlayered with thin beds of clay and sand.	

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BORING & WELL CONSTRUCTION LOG

Date(s): 04/03/96 - 04/03/96

Well ID: WW-23

Client/Project Number: CSXT\560-58

Surface Elevation: 138.00'

Datum: Mean Sea Level

Project Name & Location: CSXT Waycross, Georgia

Total Borehole Depth: 35.00'

Well Completion Depth: 35.00'

Logged By: T. Fuller

Approved By: C. Mattair

Depth to Water:

Borehole Dia.: 10.00in

Contractor/Driller: GW Protection

Conductor Casing:

dia: .00in fm: .00' to: .00'

Drilling Method & Rig: Hollow Stem Auger

Solid Pipe

type: PVC dia: 4.00in fm: .5' to: 20.00'

Well Location: 300' south of MW-39.

Purpose: Extraction Well

Screens:

type: Wire-wrap size: .020in dia: 4.00in fm: 20.00' to: 30.00'

Sampler Type: Split Spoon, 2" diameter, 2' long.

Water Level Measured (Date & Time):

Annular Fill:

type: Grout	fm: 1.00'	to: 16.00'
-------------	-----------	------------

type: Bentonite	fm: 16.00'	to: 18.00'
-----------------	------------	------------

type: Sand Filter

type: fm: to:

type: fm: to:

Remarks: Well developed by swabbing with a surge block for 1 hr. and treating with baraphos. Well was purged for 1 hr. with a centrifugal pump.

[illegible]



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BORING & WELL CONSTRUCTION LOG

Client/Project Number: CSXT\560-58		Surface Elevation: 138.00'		Datum: Mean Sea Level	
Project Name & Location: CSXT Waycross, Georgia		Total Borehole Depth: 42.00'		Well Completion Depth: 42.00'	
Logged By: T. Fuller	Approved By: C. Mattair	Depth to Water:		Borehole Dia.: 10.00in	
Contractor/Driller: GW Protection		Conductor Casing: type: dia: .00in fm: .00' to: .00'			
Drilling Method & Rig: Hollow Stem Auger		Solid Pipe type: PVC dia: 4.00in fm: .5' to: 27.00'			
Well Location: 195' east of MW-62.		Screens: type: Wire-wrap size: .020in dia: 4.00in fm: 27.00' to: 37.00'			
Purpose: Extraction Well		Annular Fill: type: Grout fm: 1.00' to: 23.00'			
Sampler Type: Split Spoon, 2" diameter, 2' long.		type: Bentonite fm: 23.00' to: 25.00'			
Water Level Measured (Date & Time):		type: Sand Filter fm: 25.00' to: 42.00'			
Remarks: Well developed by swabbing with a surge block for 1 hr. and treating with baraphos. Well was purged for 1 hr. with a centrifugal pump.		type: fm: to:			
		type: fm: to:			

Elevation (ft)	Depth (ft)	Sample ID/ Interval	Vapor	Moisture	Recovery	Blow Count	Graphic Log	USCS Code	Material Description Trace = 0-10% Little = 10-20% Some = 20-30% And = 35-50% D - dry, M = moist, S - saturated	Well Construction MP. EL. 137.50
				D				GP/GW	0-4' F sand with brick, concrete, and metal debris. Dark brown.	
	5	4-6		D				SC	5.5-6' F sand with 25% silty clay. Dark brown, black, contains some metal and concrete fragments.	
130	10	9-11		M				SC/CL	9-11' F sand with 15% silty clay. Dark brown, gray, green, orange, mottled, firm.	
	15	14-16		D				SC	14-14.2' F sand with some silty clay. Light gray. 14.2-16' Silty clay with 25% F sand. gray, firm.	
120								SC	17-18' Black silty sand with product odor on auger.	
	20	19-21		M				SP/SC	19-20' F-M sand with 10% silty clay. Light gray,	
								SC/CL	20-21' F-M sand with 45% silty clay. Light gray, interlayered thin beds of sand and clay.	
								SC	22-24' F-M sand with 20% silty clay. Light gray, interlayered thin beds of sand and clay, soft.	
	25	24-26		S					24-26' Same as 22-24'.	
									26-26.3' M sand with 10% silty clay. Light gray, soft.	
									26.3-28' F-M sand with 40% silty clay. Light gray, orange, interlayered.	
									28-29' Same as 26.3-28'.	
110									29-30' M-C sand with 15% silty clay. Light gray, very soft.	



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BORING & WELL CONSTRUCTION LOG

Date(s): 04/03/96 - 04/03/96

Well ID: WW-26

Client/Project Number: CSXT\560-58

Surface Elevation: 138.00'

Datum: Mean Sea Level

Project Name & Location: CSXT Waycross, Georgia

Total Borehole Depth: 42.00'

Well Completion Depth: 42.00'

Logged By: T. Fuller

Approved By: C. Mattair

Depth to Water:

Borehole Dia.: 10.00in

Contractor/Driller: GW Protection

Conductor Casing:

type: dia: .00in fm: .00' to: .00'

Drilling Method & Rig: Hollow Stem Auger

Solid Pipe

type: PVC dia: 4.00in fm: .5' to: 27.00'

Well Location: 195' east of MW-62.

Purpose: Extraction Well

Screens:

type: Wire-wrap size: .020in dia: 4.00in fm: 27.00' to: 37.00'

Sampler Type: Split Spoon, 2" diameter, 2' long.

Water Level Measured (Date & Time):

Annular Fill:

type: Grout fm: 1.00' to: 23.00'

type: Bentonite fm: 23.00' to: 25.00'

type: Sand Filter fm: 25.00' to: 42.00'

type: fm: to:

Remarks: Well developed by swabbing with a surge block for 1 hr. and treating with baraphos. Well was purged for 1 hr. with a centrifugal pump.

Elevation (ft)	Depth (ft)	Sample ID/Interval	Vapor	Moisture	Recovery	Blow Count	Graphic Log	USCS Code	Material Description	Well Construction
									Trace = 0-10% Little = 10-20% Some = 20-30% And = 35-50% D - dry, M - moist, S - saturated	
	32-34			S		6		SP/SC	32-34' F-M sand with 15% silty clay. Light gray, tan, soft.	
	35	34-36		M		6		CL	34-35' F-M sand with 10% silty clay. Tan, orange, soft.	
		36-38		M		6		SP/SC	35-36' Silty clay with 40% F-M sand. Light gray, orange, soft.	
				M		6		CL	36-37' M sand with 10% silty clay. Tan, soft.	
				M		6			37-38' Silty clay with 30% F-M sand. Light gray, firm.	
						6			38-40' Same as 37-38'. Trace of mica.	



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BORING & WELL CONSTRUCTION LOG

Client/Project Number: CSXT\560-58		Date(s): 04/05/96 - 04/05/96	Well ID: WW-28
Project Name & Location: CSXT Waycross, Georgia		Surface Elevation: 134.00'	Datum: Mean Sea Level
Logged By: T. Fuller		Approved By: C. Mattair	Total Borehole Depth: 30.00'
Contractor/Driller: GW Protection		Depth to Water:	Well Completion Depth: 30.00'
Drilling Method & Rig: Hollow Stem Auger		Conductor Casing: type: dia: .00in fm: .00' to: .00'	Borehole Dia.: 10.00in
Well Location: 190° northeast of MW-45.		Solid Pipe type: PVC dia: 4.00in fm: .5' to: 15.00'	
Purpose: Extraction Well		Screens: type: Wire-wrap size: .020in dia: 4.00in fm: 15.00' to: 25.00'	
Sampler Type: Split Spoon, 2" diameter, 2' long.		Annular Fill: type: Grout fm: 1.00' to: 11.00'	
Water Level Measured (Date & Time):		type: Bentonite fm: 11.00' to: 13.00'	
Remarks: Well developed by swabbing with a surge block for 1 hr. and treating with barophos. Well was purged for 1 hr. with a centrifugal pump.		type: Sand Filter fm: 13.00' to: 30.00'	
		type: fm: to:	

Elevation (ft)	Depth (ft)	Sample ID/Interval	Vapor	Moisture	Recovery	Blow Count	Graphic Log	USCS Code	Material Description Trace = 0-10% Little = 10-20% Some = 20-30% And = 35-50% D - dry, M = moist, S - saturated	Well Construction MP. EL. 133.50
130	0-2			D				SC	0-4' VF-F sand with 15% silty clay. Light gray, light brown, soft.	
	5	4-6		M		3 8			4-6' VF-F sand with 20% silty clay. Light brown, rust, firm.	
	10	9-11		M		2 4 6 7		SC/CL	9-11' VF-F sand with 40% silty clay. Light tan, interlayered thin beds of sand and clay, firm.	
120	15	14-16		S		2 6 8		SC	14-16' VF-F sand with 30% silty clay. Light tan, light brown, a few thick clay laminations in sand, soft.	
	20	19-21		S		4 5 8			19.5-21' F-C sand with 20% silty clay. Light tan, orange, red, a few thick laminations of clay from 19-20', grain size increasing with depth, very soft.	
	22	22-24		S		3 3 4			22.5-23' F-M sand with 30% clay. Orange, light gray, clay lens present, soft.	
110	25	24-26		D		6 4 3 8 5 6 7		CL	23-24' F-M sand with 40% silty clay. Gray, blue, interlayered, soft. 24-26' Silty clay with 20% F-M sand. Gray, blue, 3-in. thick sand lens at 25', hard.	
	26	26-28		D					26-28' silty clay with 15% sand. Gray, green, hard.	



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BORING & WELL CONSTRUCTION LOG

Date(s): 04/04/96 - 04/04/96

Well ID: WW-29

Client/Project Number: CSXT\560-58

Surface Elevation: 130.00'

Datum: Mean Sea Level

Project Name & Location: CSXT Waycross, Georgia

Total Borehole Depth: 30.00'

Well Completion Depth: 30.00'

Logged By: T. Fuller

Approved By: C. Mattair

Depth to Water:

Borehole Dia.: 10.00in

Contractor/Driller: GW Protection

Conductor Casing:
type:

dia: .00in fm: .00' to: .00'

Drilling Method & Rig: Hollow Stem Auger

Solid Pipe
type: PVC

dia: 4.00in fm: .5' to: 15.00'

Well Location: 40' northeast of MW-68

Purpose: Extraction Well

Screens:

type: Wire-wrap size: .020in dia: 4.00in fm: 15.00' to: 25.00'

Sampler Type: Split Spoon, 2" diameter, 2' long.

Water Level Measured (Date & Time):

Annular Fill:

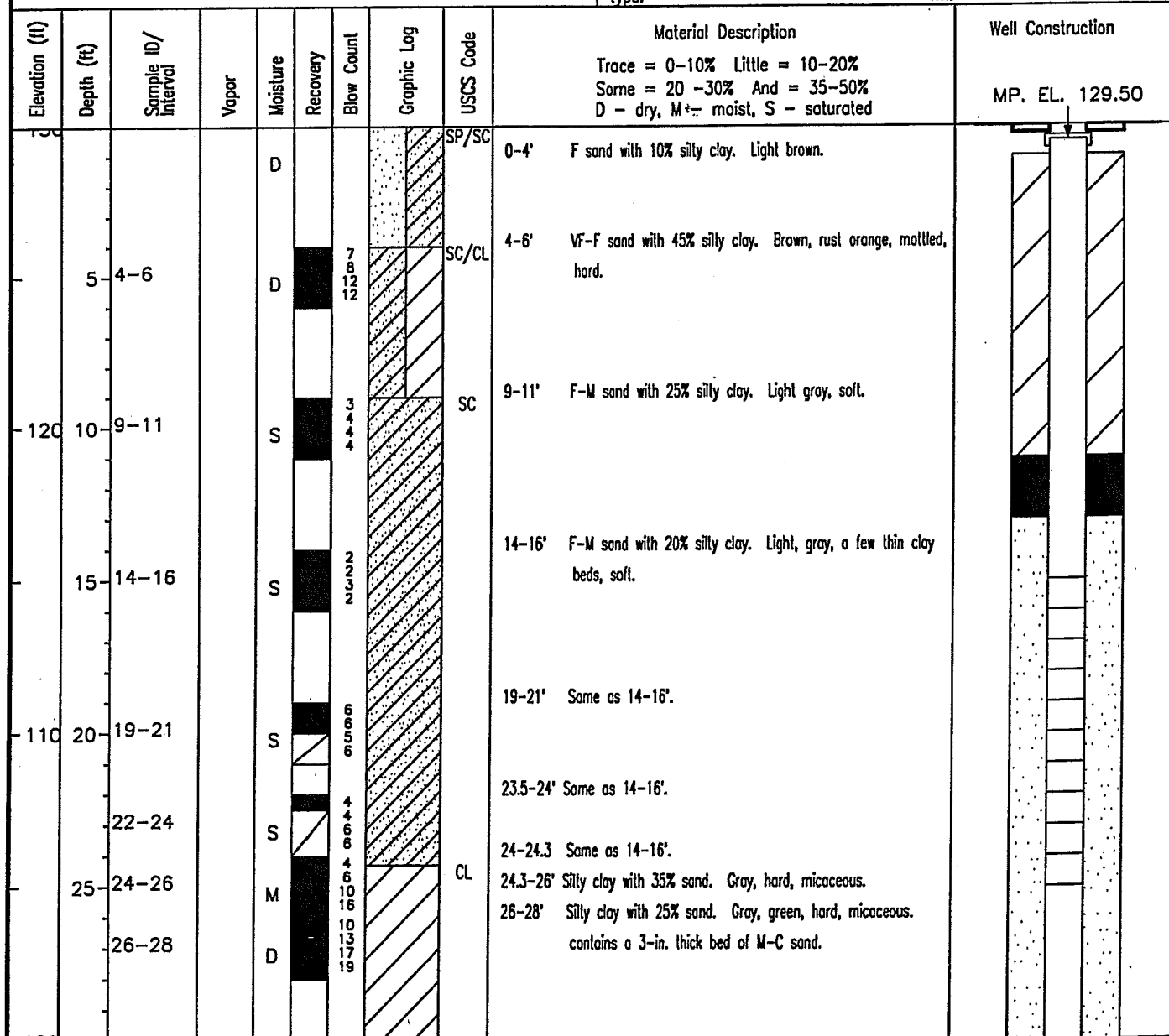
type: Grout fm: 1.00' to: 11.00'

type: Bentonite fm: 11.00' to: 13.00'

type: Sand Filter fm: 13.00' to: 30.00'

type: fm: to:

Remarks: Well developed by swabbing with a surge block for 1 hr. and treating with baraphos. Well was purged for 1.25 hrs. with a centrifugal pump.





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BORING & WELL CONSTRUCTION LOG

Client/Project Number: CSXT\560-58	Date(s): 04/04/96 - 04/04/96	Well ID: WW-30
Project Name & Location: CSXT Waycross, Georgia	Surface Elevation: 129.50'	Datum: Mean Sea Level
Logged By: T. Fuller	Approved By: C. Maltair	Total Borehole Depth: 32.00'
Contractor/Driller: GW Protection	Depth to Water:	Well Completion Depth: 32.00'
Drilling Method & Rig: Hollow Stem Auger	Conductor Casing: type: dia: .00in fm: .00' to: .00'	Borehole Dia.: 10.00in
Well Location: 25' northeast of MW-69.	Solid Pipe type: PVC dia: 4.00in fm: .5' to: 17.00'	
Purpose: Extraction Well	Screens: type: Wire-wrap size: .020in dia: 4.00in fm: 17.00' to: 27.00'	
Sampler Type: Split Spoon, 2" diameter, 2' length.	Annular Fill: type: Grout fm: 1.00' to: 13.00'	
Water Level Measured (Date & Time):	type: Bentonite fm: 13.00' to: 15.00'	
Remarks: Well developed by swabbing with a surge block for 1 hr. and treating with baraphos. Well was purged for 1 hr. with a centrifugal pump.	type: Sand Filter fm: 15.00' to: 32.00'	
	type: fm: to:	
	type: fm: to:	

Elevation (ft)	Depth (ft)	Sample ID/ Interval	Vapor	Moisture	Recovery	Blow Count	Graphic Log	USCS Code	Material Description Trace = 0-10% Little = 10-20% Some = 20-30% And = 35-50% D - dry, M - moist, S - saturated	Well Construction MP. EL. 129.00
				D				SC	0-4' VF-F sand with 15% silty clay. Light brown,	
	5	4-6		M		14 14 15 17		SC/CL	4-6' VF-F sand with 45% silty clay. Brown, rust, orange, mottled, hard.	
	10	9-11		S		5 5 4 4		SC	9-11' F sand with 15% silty clay. Brown, light gray, soft.	
	15	14-16		S		6 6 6 6		SP/SC	15-16' F sand with 10% silty clay. Light tan, hard.	
	20	19-21		S		3 3 2 3		SC	19-21' F sand with 20% silty clay. Light tan, orange, interlayered thin beds of clay and sand, soft.	
	22-24			S		3 4 4 4			22-22.5 Some as 19-21'. 22.5-24' F-C sand with 30% silty clay. Orange, gray, grain size and clay decreasing with depth, grades to sandy clay at 23.8', firm.	
	25	24-26		D		3 4 5 4		CL	24-25' Some as 22-24'	
	26-28			D		3 5 6 8			25-26' Silty clay with 20% F-C sand. Gray, green, hard.	
	28-30			D		14 16 16 20		SC	26-28' Some as 25-26'. 28-29' Some as 25-26'. 29-30' Sand with 35% silty clay. Gray, semi-firm.	
									30-32' Silty clay with 25% sand. Gray, green, hard.	



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BORING & WELL CONSTRUCTION LOG

Client/Project Number: CSXT\560-58		Date(s): 04/04/96 - 04/04/96		Well ID: WW-30	
Project Name & Location: CSXT Waycross, Georgia		Surface Elevation: 129.50'		Datum: Mean Sea Level	
Logged By: T. Fuller		Approved By: C. Mattair		Total Borehole Depth: 32.00'	
Contractor/Driller: GW Protection		Depth to Water:		Well Completion Depth: 32.00'	
Drilling Method & Rig: Hollow Stem Auger		Conductor Casing: type: dia: .00in fm: .00' to: .00'		Borehole Dia.: 10.00in	
Well Location: 25' northeast of MW-69.		Solid Pipe type: PVC dia: 4.00in fm: .5' to: 17.00'			
Purpose: Extraction Well		Screens: type: Wire-wrap size: .020in dia: 4.00in fm: 17.00' to: 27.00'			
Sampler Type: Split Spoon, 2" diameter, 2' length.		Annular Fill: type: Grout fm: 1.00' to: 13.00'			
Water Level Measured (Date & Time):		type: Bentonite fm: 13.00' to: 15.00'			
Remarks: Well developed by swabbing with a surge block for 1 hr. and treating with baraphos. Well was purged for 1 hr. with a centrifugal pump.		type: Sand Filter fm: 15.00' to: 32.00'			
		type: fm: to:			
		type: fm: to:			

Elevation (ft)	Depth (ft)	Sample ID/ Interval	Vapor	Moisture	Recovery	Blow Count	Graphic Log	USCS Code	Material Description	Well Construction
		30-32		D		15 15 18 24		CL	Trace = 0-10% Little = 10-20% Some = 20 -30% And = 35-50% D - dry, M ± moist, S - saturated	
	35									
90	40									
	45									
80	50									
	55									
70										



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BORING & WELL CONSTRUCTION LOG

Client/Project Number: CSXT\560-58		Date(s): 04/04/96 - 04/04/96	Well ID: WW-31
Project Name & Location: CSXT Waycross, Georgia		Surface Elevation: 129.00'	Datum: Mean Sea Level
Logged By: G. Bonn		Approved By: C. Mattair	
Contractor/Driller: GW Protection		Conductor Casing: type: dia: .00in fm: .00' to: .00'	
Drilling Method & Rig: Hollow Stem Auger		Solid Pipe type: PVC dia: 4.00in fm: .5' to: 16.00'	
Well Location: 60' northwest of MW-70.		Screens: type: Wire-wrap size: .020in dia: 4.00in fm: 16.00' to: 26.00'	
Purpose: Extraction Well		Annular Fill: type: Grout fm: 1.00' to: 12.00'	
Sampler Type: Split Spoon, 2" diameter, 2' long.		type: Bentonite fm: 12.00' to: 14.00'	
Water Level Measured (Date & Time):		type: Sand Filter fm: 14.00' to: 31.00'	
Remarks: Well developed by swabbing with a surge block for 1 hr. and treating with baraphos. Well was purged for 1 hr. with a centrifugal pump.		type: fm: to:	

Elevation (ft)	Depth (ft)	Sample ID/ Interval	Vapor	Moisture	Recovery	Blow Count	Graphic Log	USCS Code	Material Description Trace = 0-10% Little = 10-20% Some = 20-30% And = 35-50% D - dry, M ± moist, S - saturated	Well Construction MP. EL. 128.50
				D				SC	0-4' VF-F sand with a little silty clay. Light brown.	
	5	4-6		D		10 15 12 19		SC/CL	4-6' VF-F sand with 40% silty clay. Brown, light gray, mottled, firm.	
120	10	9-11		M		5 4 4 3		SC	9.5-11' VF-F sand with 20% silty clay. Light brown, tan, soft.	
	15	14-16		S		3 2 2 3			14.5-16' F-C sand with 20% silty clay. Tan, interlayered thin beds of sand and clay, soft.	
110	20	19-21		S		6 2 4 4			19-21' F-C sand with 25% silty clay. Tan, orange, interlayered thin beds of clay and sand, very soft.	
	22	22-24		M		6 4 4 4		CL	22-23' M-VC sand with 30% silty clay. Orange, firm, clay increases with depth, soft.	
	25	24-26		D		4 2 3 5			23-24' Silty clay with 40% sand. Gray, blue, firm.	
	26	26-28		D		3 4 4 8			24-26' Silty clay with 30% sand. Gray, green, contains a few thin beds of M sand, firm.	
100	28	28-30		D		4 5 9 12			26-28' Silty clay with 30% sand. Gray, green, firm.	
									28-30' Same as 26-28'.	



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BORING & WELL CONSTRUCTION LOG

Client/Project Number: CSXT\560-58		Date(s): 04/04/96 - 04/04/96	Well ID: WW-31
Project Name & Location: CSXT Waycross, Georgia		Surface Elevation: 129.00'	Datum: Mean Sea Level
Logged By: G. Bonn		Total Borehole Depth: 31.00'	Well Completion Depth: 31.00'
Approved By: C. Mattair		Depth to Water:	Borehole Dia.: 10.00in
Contractor/Driller: GW Protection		Conductor Casing: type: dia: .00in fm: .00' to: .00'	
Drilling Method & Rig: Hollow Stem Auger		Solid Pipe type: PVC dia: 4.00in fm: .5' to: 16.00'	
Well Location: 60' northwest of MW-70.		Screens: type: Wire-wrap size: .020in dia: 4.00in fm: 16.00' to: 26.00'	
Purpose: Extraction Well		Annular Fill: type: Grout fm: 1.00' to: 12.00'	
Sampler Type: Split Spoon, 2" diameter, 2' long.		type: Bentonite fm: 12.00' to: 14.00'	
Water Level Measured (Date & Time):		type: Sand Filter fm: 14.00' to: 31.00'	
Remarks: Well developed by swabbing with a surge block for 1 hr. and treating with baraphos. Well was purged for 1 hr. with a centrifugal pump.		type: fm: to:	

Elevation (ft)	Depth (ft)	Sample ID/ Interval	Vapor	Moisture	Recovery	Blow Count	Graphic Log	USCS Code	Material Description Trace = 0-10% Little = 10-20% Some = 20 -30% And = 35-50% D - dry, M = moist, S - saturated	Well Construction
90	35									
40										
45										
80	50									
55										
70										



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BORING & WELL CONSTRUCTION LOG

Client/Project Number: CSXT\560-58	Date(s): 04/05/96 - 04/05/96	Well ID: WW-32
Project Name & Location: CSXT Waycross, Georgia	Surface Elevation: 131.00'	Datum: Mean Sea Level
Logged By: T. Fuller	Total Borehole Depth: 30.00'	Well Completion Depth: 30.00'
Approved By: C. Mattair	Depth to Water:	Borehole Dia.: 10.00in
Contractor/Driller: GW Protection	Conductor Casing: type: dia: .00in fm: .00' to: .00'	
Drilling Method & Rig: Hollow Stem Auger	Solid Pipe type: PVC dia: 4.00in fm: .5' to: 15.00'	
Well Location: 110' northeast of MW-70.	Screens: type: Wire-wrap size: .020in dia: 4.00in fm: 15.00' to: 25.00'	
Purpose: Extraction Well	Annular Fill: type: Grout fm: 1.00' to: 11.00'	
Sampler Type: Split Spoon, 2" diameter, 2' long.	type: Bentonite fm: 11.00' to: 13.00'	
Water Level Measured (Date & Time):	type: Sand Filter fm: 13.00' to: 30.00'	
Remarks: Well developed by swabbing with a surg block for 1 hr. and treating with boraphos. Well was purged for 1.5 hrs. with a centrifugal pump.	type: fm: to:	

Elevation (ft)	Depth (ft)	Sample ID/ Interval	Vapor	Moisture	Recovery	Blow Count	Graphic Log	USCS Code	Material Description Trace = 0-10% Little = 10-20% Some = 20-30% And = 35-50% D - dry, M ± moist, S - saturated	Well Construction MP. EL. 130.50
130				D				SC	0-4' VF-F sand with 15% silty clay. Light brown.	
	5	4-6		D		5 9 11 11		SC/CL	4-6' VF-F sand with 40% silty clay. Brown, light gray, mottled, hard.	
	10	9-11		M		3 4 4 4		SC	9-11' F sand with 15% silty clay. Light tan, interlayered with a few thin beds of clay, soft.	
120				S		2 2 2 2			14-16' Same as 9-11' with clay laminations at 15.5-16'.	
	15	14-16		S		2 2 2 2				
	20	19-21		S		4 2 2 3			19-21' F-VC sand with 15% silty clay. Tan, orange, red, laminated, grain size increases with depth, very soft.	
110				M		3 3 3 3			22-24' F-C sand with 35% silty clay. Light tan, orange, interlayered thin beds of sand and clay, soft to firm.	
	22	22-24		M		3 3 3 3			24-24.5' Same as 22-24'.	
	25	24-26		M		5 5 5 5			24.5-26' F sand with 30% silty clay. Light gray, soft.	
	26	26-28		D		5 7 9 10		CL	26-28' Silty clay with 25% sand. Gray, green, hard.	
	28	28-30		D		5 5 12 12			28-30' Same as 26-28'.	