

Report of Additional Closure Activities

CSX Transportation - Powell Duffryn

32.91-Acre CSXT Parcel

Hutchinson Island

Savannah, Chatham County, Georgia

HSI Site No. 10101

Prepared CSX Real Property, Inc.

for: 500 Water Street, J180, Jacksonville, Florida 32202

Date: August 2, 2017

Prepared Amec Foster Wheeler Environment & Infrastructure, Inc.

by: 2677 Buford Highway, Atlanta, Georgia 30324

Project No.: 643005247

TABLE OF CONTENTS

		<u>Page</u>
1.0	INTRODUCTION	1
2.0	WELL ABANDONMENT	3
3.0	DEMOLITION OF GROUNDWATER SYSTEM BUILDING AND SLAB	4
4.0	REMOVAL OF PETROLEUM IMPACTED SOIL AROUND POWER POLES	5

LIST OF TABLES

Table 1 Well Abandonment Summary

LIST OF FIGURES

Figure 1 Abandoned Well locations

LIST OF APPENDICES

Appendix A Well Abandonment Logs

Appendix B Waste Manifests

GROUNDWATER SCIENTIST CERTIFICATION

I certify that I am a qualified groundwater scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding well abandonment. I further certify that this report was prepared in conjunction with others working under my direction.

Stephen R. Foley

Georgia Registration No. 1057

Doto

EN ROBERT

No. 0010

Date

1.0 INTRODUCTION

The qualifying property (subject property or CSXT parcel) is comprised of a 32.91-acre parcel located on Hutchinson Island in Savannah, Georgia (see Figure 1). The subject property is owned by CSX-Real Property, Inc. (CSX-RPI) and consists of vacant land in Chatham County Tax Parcel 1-0436-01-017. The subject property is a former bulk petroleum/chemical storage facility located on the southern side of Hutchinson Island, directly across the Savannah River from downtown Savannah, Georgia. The CSXT parcel is abutted on the north and west sides by a 45-acre property owned by the Savannah Economic Development Authority (SEDA). Hutchinson Island Ventures, LLC and Low Country Land, LLC own parcels along the eastern subject property boundary. Properties along the southern boundary are owned by the Georgia Department of Transportation and by Savannah Marine Services. The Savannah River also borders the subject property on its southeast corner. Spartan Hutchinson Island Investments, LLC owns a parcel adjacent to the west. The subject property is relatively flat with vegetation consisting mostly of tall grasses and scrub brush.

In a February 2016 meeting, EPD approved the closure of recovery wells and those monitoring wells on the CSXT property that were no longer actively monitored under the VRP. The recovery wells recommended to be abandoned on the Hutchinson Island property were utilized as part of the groundwater pump and treat system. The system had been out of service since 2011 and there were no plans to restart the system. The majority of the monitoring wells recommended for abandonment on the CSXT property had not been sampled since the site entered the VRP. The remaining monitoring wells were sampled initially under the VRP but were subsequently eliminated from the monitoring program as the results from those wells were consistently below background concentrations or compliant with applicable risk reduction standards (RRS). A total of 50 wells were abandoned in June 2016. The closure of these wells was documented in Amec Foster Wheeler's Well Abandonment Report, dated July 29, 2016.

In a letter to the Georgia Environmental Protection Division (EPD) dated August 16, 2016, Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler), on behalf of CSX Real Property, Inc., requested "no further action" with regard to groundwater monitoring on the subject property and approval to properly abandon any remaining wells. In a letter dated December 28, 2016, EPD agreed that no further groundwater monitoring was needed on the subject property, as reported concentrations of regulated substances in groundwater are less than site delineation

criteria. Therefore, the remaining wells on site could also be closed and the treatment system fully decommissioned.

Six monitoring wells (PDMW-32R, PDMW-33R2, PDMW-47, PDMW-48, PDMW-49, and PDMW-53) located on the adjacent parcel to the west, owned by Edgewater Resorts, Inc. were abandoned in January 2017. The closure of the wells on the Edgewater Resorts, Inc. property was documented in Amec Foster Wheeler's Well Abandonment Report, dated March 9, 2017.

The VRP CSR documented that a small amount of petroleum-impacted soil remained on site in the area surrounding four utility poles in the eastern portion of the site. This material was located within a five-foot radius surrounding each of the four utility poles and had been allowed to remain in place during the 2008 soil remediation to maintain the integrity of the power lines. In order to avoid the requirement to document the presence of this material on the Environmental Covenant to be prepared for the subject property, CSX engaged Amec Foster Wheeler to excavate and properly dispose of this soil in conjunction with the decommissioning of the groundwater treatment system and the proper abandonment of all remaining wells.

This report summarizes the activities associated with the well abandonment, the decommissioning of the remediation system and the removal of the remaining petroleum impacted soil.

2.0 WELL ABANDONMENT

Well abandonment activities were performed at the CSXT Hutchinson Island, SEDA, and Hutchinson Island Ventures, LLC properties from June 26 to 28, 2017 and included the abandonment of 16 monitoring wells and 12 piezometers. Eleven of the monitoring wells and all 12 piezometers were located on the CSXT Hutchinson Island property, four monitoring wells were located on the SEDA property to the north, and one monitoring well was located on the Hutchinson Island Ventures, LLC property to the east. A summary of the abandoned wells and well construction details is provided in Table 1 and the well locations are illustrated on Figure 1. The wells were abandoned in place by tremie-grouting the well casing from the bottom upward, as the wells were reported to have been properly grouted during installation and the casing integrity was reported to be intact.

Well abandonment activities were performed in accordance with the Georgia Water Well Standards Act (O.C.G.A. § 12-5-120 through 138), Georgia Geologic Survey Circular 13 (Grouting and Plugging of Domestic Water Wells in Georgia) (Georgia Geologic Survey, 1988), and USEPA Region 4 SESD Field Branches Quality System and Technical Procedures. Amec Foster Wheeler directed and documented the abandonment activities that were conducted by GeoLab Drilling, Inc. Concrete well pad/vaults and any above ground well covers were removed and disposed of in roll-off dumpsters provided by Waste Management along with other construction debris associated with the decommissioning of the remediation system. The wells were plugged and abandoned by placing a tremie pipe at the bottom of the wells and filling the casing with a Wyo-Ben, Inc. grout-well DF slurry. The tremie pipe was retracted slowly as grout filled the well and casing. Pumping continued until undiluted grout was visible at the surface. The grout was then allowed to set overnight, and the casings were topped off as needed. The upper portion of the well casing was cut-off below grade and the area graded level with the existing ground surface.

Abandonment-derived materials, including concrete debris, surface completions, buried pipe, buried conduit, etc., were classified as construction and demolition waste and were placed in roll-off dumpsters for disposal by Waste Management.

Abandonment activities were conducted under the direction of an Amec Foster Wheeler professional geologist registered in Georgia. A record for each abandoned well is provided in Appendix A.

3.0 DEMOLITION OF GROUNDWATER SYSTEM BUILDING AND SLAB

Between June 19 and 22, 2017, Amec Foster Wheeler completed the dismantling and demolition of the groundwater treatment system building and associated equipment and piping. Prior to demolition, Amec Foster Wheeler coordinated with Georgia Power Company to de-energize and disconnect the power supply to the remediation building. The groundwater system electronics controls equipment were removed and disposed. The empty building and concrete slab were then demolished using a backhoe and all debris was loaded into two roll-off boxes for transportation to the SuperiorLlandfill located in Savannah, Georgia. A total of approximately 20 tons of demolition debris was, including the well abandonment debris, and disposed of at the Superior Landfill. Waste Manifests are included in Appendix B.

4.0 REMOVAL OF PETROLEUM IMPACTED SOIL AROUND POWER POLES

During previous soil remediation activities conducted at the site, four power poles were located within an area of shallow petroleum-impacted soil excavation. In order to maintain the integrity of the utility poles/lines at that time, an area of soil ten feet in diameter was allowed to remain in place around each of the four poles. However, as part of site closure activities prior to the potential sale of the property, CSX requested that the remaining impacted soil be removed and properly disposed.

On June 19, 2017, Amec Foster Wheeler excavated the soil from each of the four areas surrounding the utility poles. The excavations extended at least 5 feet from each pole and were extended to the water table, which occurred at a depth of approximately two feet below ground surface. The soil was loaded into two roll-off boxes provided by Waste Management and the excavations were backfilled with clean fill soil to match the existing grade. The soil was characterized via Toxicity Characteristic Leaching Procedure (TCLP) testing for VOCs, SVOCs, pesticides, herbicides and RCRA metals. Results documented that the soil was non-hazardous and approval was obtained from Waste Management to dispose of the soil as non-hazardous waste at the Waste Management Superior Subtitle D landfill. On July 10, 2017, the material was transported off site for disposal at the Superior Subtitle D Landfill. A total of approximately 30 tons of soil was disposed of at the Superior Landfill. Waste manifests are included in Appendix B.

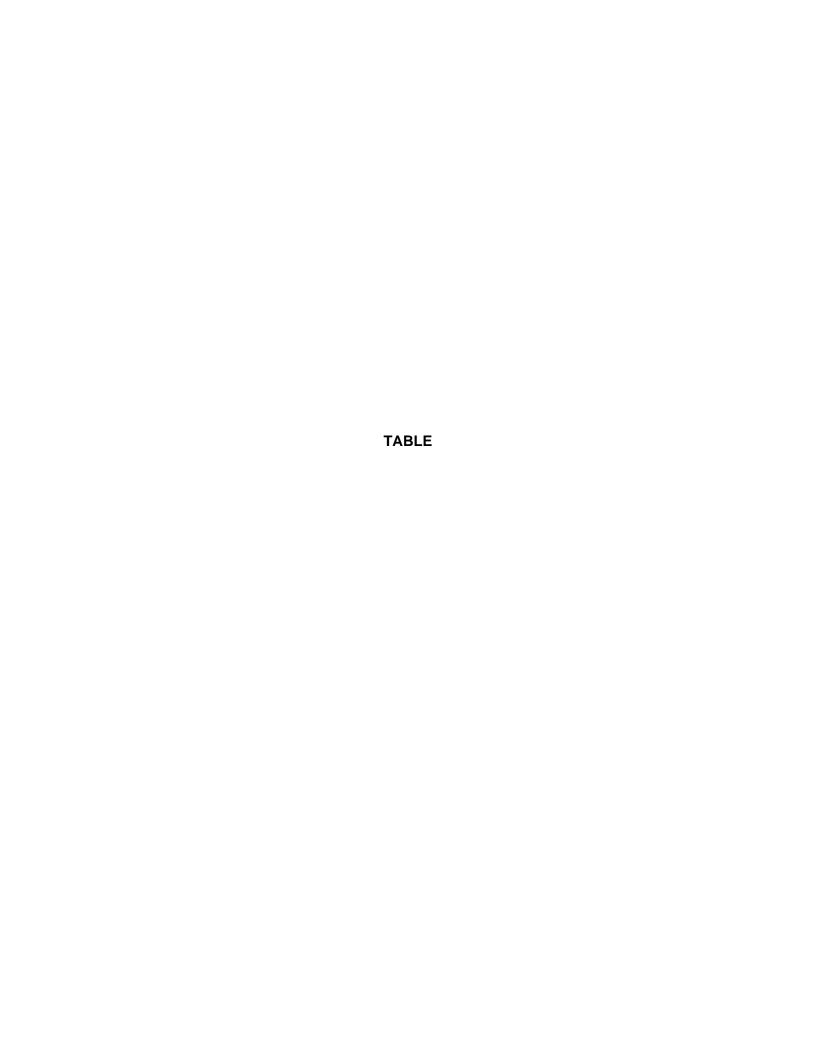


Table 1
Well Abandonment Details

Well ID	Well Diameter (inches)	Ground Surface Elevation (ft above msl)	Top of Casing Elevation (ft above msl)	Well Depth (ft bgs)	Top of Screen Depth (ft bgs)	Bottom of Screen Depth (ft bgs)	June 2017 Depth to Water (ft below TOC)
MW-3R	2	4.21	5.90	10.0	2.0	10.0	1.74
PDMW-1T	2	5.21	7.71	8.0	3.0	8.0	2.7
PDMW-8R	2	6.43	9.08	9.0	1.0	9.0	3.93
PDMW-10R	2	7.03	9.44	9.0	1.0	9.0	4.40
PDMW-13P	2	5.59	8.09	8.0	3.0	8.0	3.13
PDMW-19P	2	6.77	9.27	8.0	3.0	8.0	4.45
PDMW-23R	2	7.36	10.07	8.0	1.0	8.0	5.11
PDMW-26T	2	4.77	7.27	8.0	3.0	8.0	1.99
PDMW-45R	1	6.03	8.59	20.0	10.0	20.0	3.99
PDMW-46	2	6.34	9.82	10.0	5.0	10.0	5.13
PDMW-50	2	5.00	7.80	7.0	2.0	7.0	3.67
PDMW-51	2	4.26	7.46	7.0	2.0	7.0	4.22
PDMW-52	2	4.97	7.73	7.0	2.0	7.0	4.03
TMW-1	2	5.13	8.45	7.0	2.0	7.0	3.32
TMW-4R	2	6.47	9.24	9.0	1.0	9.0	4.85
EW-1	4	6.68	8.45	12.0	2.0	12.0	3.53
PZ-100	1	na	na	6.7	1.7	6.7	3.86
PZ-101	1	na	na	6.6	1.6	6.6	4.52
PZ-103	1	na	na	5.8	0.8	5.8	3.93
PZ-104	1	na	na	5.7	0.7	5.7	4.02
PZ-105	1	na	na	6.8	1.8	6.8	3.87
PZ-106	1	na	na	5.9	0.9	5.9	3.1
PZ-107	1	na	na	7.7	2.2	7.7	3.05
PZ-108	1	na	na	7.5	2.5	7.5	3.52
PZ-111	1	na	na	7.5	2.5	7.5	3.84
PZ-112	1	na	na	7.5	2.5	7.5	4.42
PZ-113	1	na	na	7.5	2.5	7.5	4.24
PZ-114	1	na	na	7.4	2.4	7.4	4.87

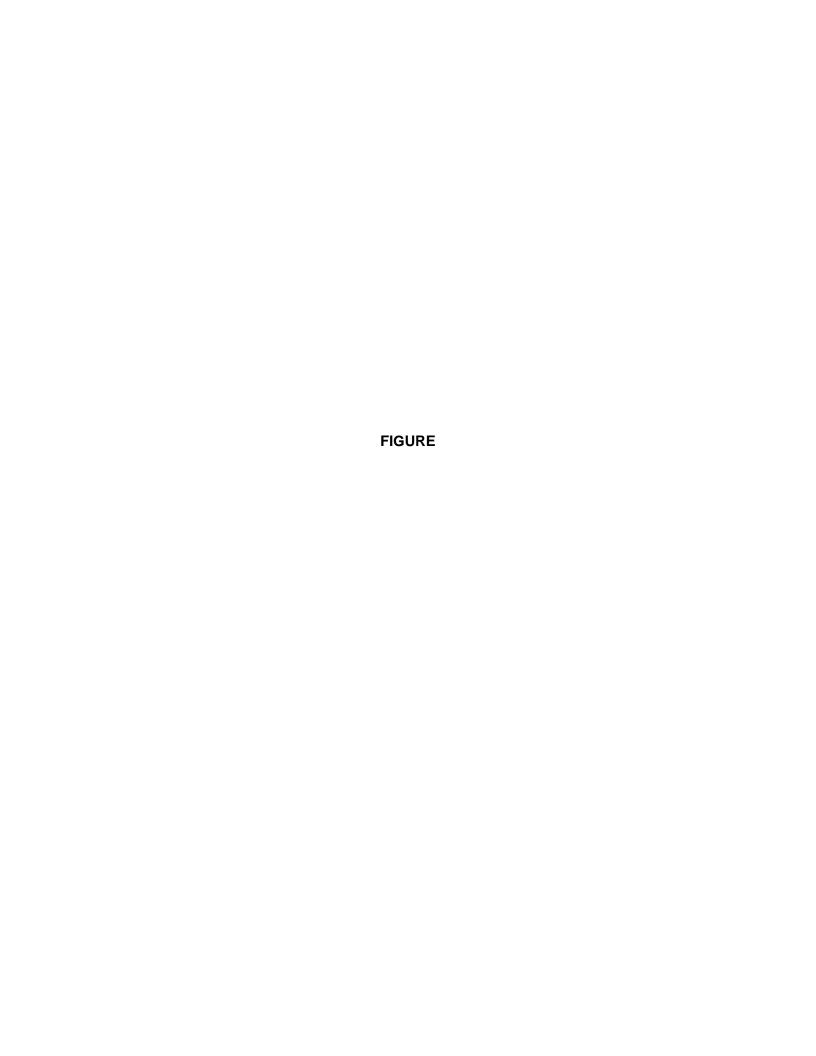
Notes:

bgs = below ground surface

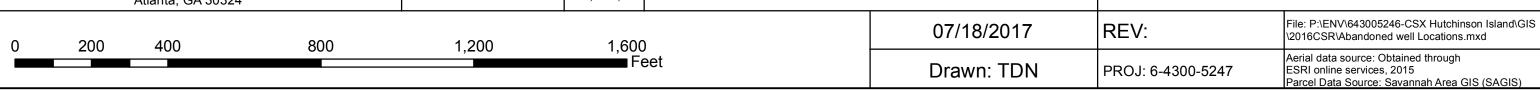
msl = mean sea level

ft = feet

na = not available







APPENDIX A WELL ABANDONMENT LOGS



CSX Hutchinson Island

Name of Property:

WELL NO.: EW-1

PROJECT NAME:

CSX Hutchinson Island

PROJECT NO:

6-4300-5247.03.****

FINISH DATE:

6/27/2017

Address of Property:	Hutchinson Island, Sa	avannah, Georgia			
Original Purpose of Well Installation:		Groundwater Monitoring			
Total Depth of Well (measur	red from Top of Riser):	13.98 ft. (measured on 6/26/2017)			
Top of Riser Height (above/l	pelow ground surface):	1.77 ft.			
Well Diameter (nominal) and	d Material Type:	4-inch PVC			
Screen Length:		10 ft.			
Depth to Water/Date (measu	ured from Top of Riser):	4.24 (measured on 6/26/2017)			
Description of Well Abandor	nment Method:	Tremie Grout well to the surface with Wyo-Ben, Inc. Grout-Well DF bentonite grout slurry.			
Calculated Well Volume:		Approx. 9.1 gallons			
Type and Volume of Materia	als Used to Plug Well	Approx. 10 gallons of slurry			
Riser and/or Screen Length	Removed or Left in Place:	Casing left in place and cut below grade.			
Drilling Contractor: Ge	eoLab	Driller's Name: Edward Wayman			
Additional Notes:					
Grout Mixture Used:					
50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry					
Amec Foster Wheeler Field Representative:					



WELL NO.: MW-3R

PROJECT NAME:

CSX Hutchinson Island

PROJECT NO:

6-4300-5247.03.****

FINISH DATE:

6/26/2017

Name of Property:	Savannah Econor	mic Development Authority
Address of Property: Hutchinson Island,		d, Savannah, Georgia
Original Purpose of Well Installation:		Groundwater Monitoring
Total Depth of Well (measured from Top	of Riser):	10.4 ft. (measured on 6/26/2017)
Top of Riser Height (above/below ground	d surface):	1.69 ft.
Well Diameter (nominal) and Material Ty	pe:	2-inch PVC
Screen Length:		8 ft.
Depth to Water/Date (measured from Top of Riser):		1.74 (measured on 6/26/2017)
Description of Well Abandonment Metho	d:	Tremie Grout well to the surface with Wyo-Ben, Inc. Grout-Well DF bentonite grout slurry.
Calculated Well Volume:		Approx. 1.7 gallons
Type and Volume of Materials Used to Plug Well		Approx. 2.5 gallons of slurry
Riser and/or Screen Length Removed or Left in Place:		Casing left in place and cut below grade.
Drilling Contractor: GeoLab		Driller's Name: Edward Wayman

Additional Notes:

Grout Mixture Used:

50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry



WELL NO.: PDMW-1T

PROJECT NAME: CSX Hutchinson Island

PROJECT NO: 6-4300-5247.03.****

FINISH DATE: 6/26/2017

Name of Property:	CSXT – Hutchinson	Island		
Address of Property:	Hutchinson Island, Savannah, Georgia			
Original Purpose of Well Installation:		Groundwater Monitoring		
Total Depth of Well (measured from Top	of Riser):	8 ft. (measured on 6/26/2017)		
Top of Riser Height (above/below ground	l surface):	1.5 ft.		
Well Diameter (nominal) and Material Type	oe:	2-inch PVC		
Screen Length:		5 ft.		
Depth to Water/Date (measured from Top of Riser):		2.7 (measured on 6/26/2017)		
Description of Well Abandonment Method:		Tremie Grout well to the surface with Wyo-Ben, Inc. Grout-Well DF bentonite grout slurry.		
Calculated Well Volume:		Approx. 1.3 gallons		
Type and Volume of Materials Used to Plug Well		Approx. 2 gallons of slurry		
Riser and/or Screen Length Removed or Left in Place:		Casing left in place and cut below grade.		
Drilling Contractor: GeoLab		Driller's Name: Edward Wayman		

Additional Notes:

Grout Mixture Used:

50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry



WELL NO.: PDMW-8R

PROJECT NAME: CSX Hutchinson Island

PROJECT NO: 6-4300-5247.03.****

FINISH DATE: 6/26/2017

Name of Property:	CSX Hutchinson Island			
Address of Property:	Hutchinson Island, Savannah, Georgia			
Original Purpose of Well Installation:		Groundwater Monitoring		
Total Depth of Well (measured from Top	of Riser):	11.6 ft. (measured on 6/26/2017)		
Top of Riser Height (above/below ground	surface):	2.6 ft.		
Well Diameter (nominal) and Material Tyl	pe:	2-inch PVC		
Screen Length:		8 ft.		
Depth to Water/Date (measured from Top of Riser):		3.93 (measured on 6/26/2017)		
Description of Well Abandonment Method	d:	Tremie Grout well to the surface with Wyo-Ben, Inc. Grout-Well DF bentonite grout slurry.		
Calculated Well Volume:		Approx. 1.9 gallons		
Type and Volume of Materials Used to Plug Well		Approx. 3 gallons of slurry		
Riser and/or Screen Length Removed or Left in Place:		Casing left in place and cut below grade.		
Drilling Contractor: GeoLab		Driller's Name: Edward Wayman		

Additional Notes:

Grout Mixture Used:

50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry



WELL NO.: PDMW-10R

PROJECT NAME: CSX Hutchinson Island

PROJECT NO: 6-4300-5247.03.****

FINISH DATE: 6/27/2017

Name of Property:	CSX Hutchinson Isla	nd		
Address of Property:	Hutchinson Island, S	chinson Island, Savannah, Georgia		
Original Purpose of Well Installation:		Groundwater Monitoring		
Total Depth of Well (measured from Top	of Riser):	12.35 ft. (measured on 6/26/2017)		
Top of Riser Height (above/below ground	d surface):	2.41 ft.		
Well Diameter (nominal) and Material Ty	pe:	2-inch PVC		
Screen Length:		8 ft.		
Depth to Water/Date (measured from Top of Riser):		5.33 (measured on 6/26/2017)		
Description of Well Abandonment Method	d:	Tremie Grout well to the surface with Wyo-Ben, Inc. Grout-Well DF bentonite grout slurry.		
Calculated Well Volume:		Approx. 2 gallons		
Type and Volume of Materials Used to Plug Well		Approx. 2 gallons of slurry		
Riser and/or Screen Length Removed or Left in Place:		Casing left in place and cut below grade.		
Drilling Contractor: GeoLab		Driller's Name: Edward Wayman		

Additional Notes:

Grout Mixture Used:

50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry



WELL NO.: PDMW-13P

PROJECT NAME: CSX Hutchinson Island

PROJECT NO: 6-4300-5247.03.****

FINISH DATE: 6/27/2017

Name of Property:	CSX Hutchinson Islan	nd	
Address of Property:	Hutchinson Island, Sa	avannah, Georgia	
Original Purpose of Well Installation:		Groundwater Monitor	ring
Total Depth of Well (measured from Top	of Riser):	9.93 ft. (measured or	า 6/26/2017)
Top of Riser Height (above/below ground	I surface):	2.5 ft.	
Well Diameter (nominal) and Material Typ	oe:	2-inch PVC	
Screen Length:		5 ft.	
Depth to Water/Date (measured from Top	o of Riser):	3.91 (measured on 6.	/26/2017)
Description of Well Abandonment Method	d:	Tremie Grout well to bentonite grout slurry	the surface with Wyo-Ben, Inc. Grout-Well DF
Calculated Well Volume:		Approx. 1.7 gallons	
Type and Volume of Materials Used to Plug Well		Approx. 2 gallons of	slurry
Riser and/or Screen Length Removed or Left in Place:		Casing left in place a	and cut below grade.
Drilling Contractor: GeoLab		Driller's Name:	Edward Wayman

Additional Notes:

Grout Mixture Used:

50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry



WELL NO.: PDMW-19P

PROJECT NAME: CSX Hutchinson Island

PROJECT NO: 6-4300-5247.03.****

FINISH DATE: 6/27/2017

Name of Property:	CSX Hutchinson Island			
Address of Property:	Hutchinson Island, Savannah, Georgia			
Original Purpose of Well Installation:		Groundwater Monitoring		
Total Depth of Well (measured from Top	of Riser):	10.18 ft. (measured on 6/27/2017)		
Top of Riser Height (above/below ground	d surface):	2.26 ft.		
Well Diameter (nominal) and Material Ty	pe:	2-inch PVC		
Screen Length:		5 ft.		
Depth to Water/Date (measured from Top of Riser):		5.49 (measured on 6/27/2017)		
Description of Well Abandonment Metho	d:	Tremie Grout well to the surface with Wyo-Ben, Inc. Grout-Well DF bentonite grout slurry.		
Calculated Well Volume:		Approx. 1.7 gallons		
Type and Volume of Materials Used to Plug Well		Approx. 2 gallons of slurry		
Riser and/or Screen Length Removed or Left in Place:		Casing left in place and cut below grade.		
Drilling Contractor: GeoLab		Driller's Name: Edward Wayman		

Grout Mixture Used:

50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry



WELL NO.: PDMW-23R

PROJECT NAME: CSX Hutchinson Island

PROJECT NO: 6-4300-5247.03.****

FINISH DATE: 6/27/2017

Name of Property:	CSX Hutchinson Isla	and		
Address of Property:	Hutchinson Island, Savannah, Georgia			
Original Purpose of Well Installation:		Groundwater Monitoring		
Total Depth of Well (measured from Top	of Riser):	11.3 ft. (measured on 6/27/2017)		
Top of Riser Height (above/below ground	d surface):	2.71 ft.		
Well Diameter (nominal) and Material Ty	pe:	2-inch PVC		
Screen Length:		7 ft.		
Depth to Water/Date (measured from Top of Riser):		5.96 (measured on 6/27/2017)		
Description of Well Abandonment Metho	d:	Tremie Grout well to the surface with Wyo-Ben, Inc. Grout-Well DF bentonite grout slurry.		
Calculated Well Volume:		Approx. 1.7 gallons		
Type and Volume of Materials Used to Plug Well		Approx. 2 gallons of slurry		
Riser and/or Screen Length Removed or Left in Place:		Casing left in place and cut below grade.		
Drilling Contractor: GeoLab		Driller's Name: Edward Wayman		

Additional Notes:

Grout Mixture Used:

50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry



WELL NO.: PDMW-26T

PROJECT NAME: CSX Hutchinson Island

PROJECT NO: 6-4300-5247.03.****

FINISH DATE: 6/26/2017

Name of Property:	CSX Hutchinson Island			
Address of Property:	Hutchinson Island, Savannah, Georgia			
Original Purpose of Well Installation:		Groundwater Monitoring		
Total Depth of Well (measured from Top	of Riser):	10 ft. (measured on 6/26/2017)		
Top of Riser Height (above/below ground	I surface):	2.4 ft.		
Well Diameter (nominal) and Material Type	oe:	2-inch PVC		
Screen Length:		5 ft.		
Depth to Water/Date (measured from Top of Riser):		2.14 (measured on 6/26/2017)		
Description of Well Abandonment Method	d:	Tremie Grout well to the surface with Wyo-Ben, Inc. Grout-Well DF bentonite grout slurry.		
Calculated Well Volume:		Approx. 1.6 gallons		
Type and Volume of Materials Used to Plug Well		Approx. 2 gallons of slurry		
Riser and/or Screen Length Removed or Left in Place:		Casing left in place and cut below grade.		
Drilling Contractor: GeoLab		Driller's Name: Edward Wayman		

Grout Mixture Used:

50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry



WELL NO.: PDMW-45R

PROJECT NAME: CSX Hutchinson Island

PROJECT NO: 6-4300-5247.03.****

FINISH DATE: 6/27/2017

Name of Property:	CSX Hutchinson Isla	CSX Hutchinson Island			
Address of Property:	Hutchinson Island, Savannah, Georgia				
Original Purpose of Well Installation:		Groundwater Monitoring			
Total Depth of Well (measured from Top of Riser):		20.24 ft. (measured on 6/27/2017)			
Top of Riser Height (above/below ground surface):		2.56 ft.			
Well Diameter (nominal) and Material Type:		2-inch PVC			
Screen length:		10 ft.			
Depth to Water/Date (measured from Top of Riser):		4.95 (measured on 6/27/2017)			
Description of Well Abandonment Method:		Tremie Grout well to the surface with Wyo-Ben, Inc. Grout-Well DF bentonite grout slurry.			
Calculated Well Volume:		Approx. 3.3 gallons			
Type and Volume of Materials Used to Plug Well		Approx. 4 gallons of slurry			
Riser and/or Screen Length Removed or Left in Place:		Casing left in place and cut below grade.			
Drilling Contractor: GeoLab		Driller's Name: Edward Wayman			

Additional Notes:

Grout Mixture Used:

50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry



WELL NO.: PDMW-46

PROJECT NAME: CSX Hutchinson Island

PROJECT NO: 6-4300-5247.03.****

FINISH DATE: 6/27/2017

Name of Property:	Hutchinson Island Ventures				
Address of Property:	Hutchinson Island, Sa	Hutchinson Island, Savannah, Georgia			
Original Purpose of Well Installation:	Original Purpose of Well Installation:		Groundwater Monitoring		
Total Depth of Well (measured from Top of Riser):		11.2 ft. (measured on 6/27/2017)			
Top of Riser Height (above/below ground surface):		3.48 ft.			
Well Diameter (nominal) and Material Type:		2-inch PVC			
Screen length:		5 ft.			
Depth to Water/Date (measured from Top of Riser):		7.26 (measured on 6	5/27/2017)		
Description of Well Abandonment Method:		Tremie Grout well to the surface with Wyo-Ben, Inc. Grout-Well DF bentonite grout slurry.			
Calculated Well Volume:		Approx. 1.8 gallons			
Type and Volume of Materials Used to Plug Well		Approx. 2 gallons of slurry			
Riser and/or Screen Length Removed or Left in Place:		Casing left in place a	and cut below grade.		
Drilling Contractor: GeoLab		Driller's Name:	Edward Wayman		

Grout Mixture Used:

50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry



WELL NO.: PDMW-50

PROJECT NAME: CSX Hutchinson Island

PROJECT NO: 6-4300-5247.03.****

FINISH DATE: 6/27/2017

Name of Property:	Savannah Economic	Development Authority			
Address of Property:	Hutchinson Island, Savannah, Georgia				
Original Purpose of Well Installation:		Groundwater Monitoring			
Total Depth of Well (measured from Top of Riser):		9.75 ft. (measured on 6/27/2017)			
Top of Riser Height (above/below ground surface):		2.8 ft.			
Well Diameter (nominal) and Material Type:		2-inch PVC			
Screen length:		5 ft.			
Depth to Water/Date (measured from Top of Riser):		3.61 (measured on 6/27/2017)			
Description of Well Abandonment Method:		Tremie Grout well to the surface with Wyo-Ben, Inc. Grout-Well DF bentonite grout slurry.			
Calculated Well Volume:		Approx. 1.6 gallons			
Type and Volume of Materials Used to Plug Well		Approx. 2 gallons of slurry			
Riser and/or Screen Length Removed or Left in Place:		Casing left in place and cut below grade.			
Drilling Contractor: GeoLab		Driller's Name: Edward Wayman			

Additional Notes:

Grout Mixture Used:

50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry



WELL NO.: PDMW-51

PROJECT NAME: CSX Hutchinson Island

PROJECT NO: 6-4300-5247.03.****

FINISH DATE: 6/26/2017

Name of Property:	Savannah Economic	Savannah Economic Development Authority			
Address of Property:	Hutchinson Island, S	Savannah, Georgia			
Original Purpose of Well Installation:		Groundwater Monitoring			
Total Depth of Well (measured from Top of Riser):		10.48 ft. (measured on 6/26/2017)			
Top of Riser Height (above/below ground surface):		3.20 ft.			
Well Diameter (nominal) and Material Type:		2-inch PVC			
Screen Length:		5 ft.			
Depth to Water/Date (measured from Top of Riser):		4.22 (measured on 6/26/2017)			
Description of Well Abandonment Method:		Tremie Grout well to the surface with Wyo-Ben, Inc. Grout-Well DF bentonite grout slurry.			
Calculated Well Volume:		Approx. 1.7 gallons			
Type and Volume of Materials Used to Plug Well		Approx. 2.5 gallons of slurry			
Riser and/or Screen Length Removed or Left in Place:		Casing left in place and cut below grade.			
Drilling Contractor: GeoLab		Driller's Name: Edward Wayman			

Additional Notes:

Grout Mixture Used:

50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry



WELL NO.: PDMW-51

PROJECT NAME: CSX Hutchinson Island

PROJECT NO: 6-4300-5247.03.****

FINISH DATE: 6/26/2017

Name of Property:	Savannah Economi	Savannah Economic Development Authority			
Address of Property:	Hutchinson Island,	Savannah, Georgia			
Original Purpose of Well Installation:		Groundwater Monitoring			
Total Depth of Well (measured from Top of Riser):		10.48 ft. (measured on 6/26/2017)			
Top of Riser Height (above/below ground surface):		3.20 ft.			
Well Diameter (nominal) and Material Type:		2-inch PVC			
Screen Length:		5 ft.			
Depth to Water/Date (measured from Top of Riser):		4.22 (measured on 6/26/2017)			
Description of Well Abandonment Method:		Tremie Grout well to the surface with Wyo-Ben, Inc. Grout-Well DF bentonite grout slurry.			
Calculated Well Volume:		Approx. 1.7 gallons			
Type and Volume of Materials Used to Plug Well		Approx. 2.5 gallons of slurry			
Riser and/or Screen Length Removed or Left in Place:		Casing left in place and cut below grade.			
Drilling Contractor: GeoLab		Driller's Name: Edward Wayman			

Additional Notes:

Grout Mixture Used:

50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry



WELL NO.: PDMW-52

PROJECT NAME: CSX Hutchinson Island

PROJECT NO: 6-4300-5247.03.****

FINISH DATE: 6/28/2017

Name of Property:	Savannah Economic	Savannah Economic Development Authority			
Address of Property:	Hutchinson Island, S	Hutchinson Island, Savannah, Georgia			
Original Purpose of Well Installation:		Groundwater Monitoring			
Total Depth of Well (measured from Top of Riser):		9.85 ft. (measured on 6/28/2017)			
Top of Riser Height (above/below ground surface):		2.76 ft.			
Well Diameter (nominal) and Material Type:		2-inch PVC			
Screen length:		5 ft.			
Depth to Water/Date (measured from Top of Riser):		3.74 (measured on 6/28/2017)			
Description of Well Abandonment Method:		Tremie Grout well to the surface with Wyo-Ben, Inc. Grout-Well DF bentonite grout slurry.			
Calculated Well Volume:		Approx. 1.6 gallons			
Type and Volume of Materials Used to Plug Well		Approx. 2 gallons of slurry			
Riser and/or Screen Length Removed or	Left in Place:	Casing left in place and cut below grade.			
Drilling Contractor: GeoLab		Driller's Name: Edward Wayman			

Additional Notes:

Grout Mixture Used:

50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry



WELL NO.: TMW-1

PROJECT NAME: CSX Hutchinson Island

PROJECT NO: 6-4300-5247.03.****

FINISH DATE: 6/26/2017

Name of Property:	CSX Hutchinson Isla	CSX Hutchinson Island			
Address of Property:	Hutchinson Island, Sa	Hutchinson Island, Savannah, Georgia			
Original Purpose of Well Installation:		Groundwater Monitoring			
Total Depth of Well (measured from Top of Riser):		9.98 ft. (measured on 6/26/2017)			
Top of Riser Height (above/below ground surface):		3.32 ft.			
Well Diameter (nominal) and Material Type:		2-inch PVC			
Screen Length:		5 ft.			
Depth to Water/Date (measured from Top of Riser):		3.62 (measured on 0	6/26/2017)		
Description of Well Abandonment Method:		Tremie Grout well to the surface with Wyo-Ben, Inc. Grout-Well DF bentonite grout slurry.			
Calculated Well Volume:		Approx. 1.6 gallons			
Type and Volume of Materials Used to Plug Well		Approx. 2 gallons of slurry			
Riser and/or Screen Length Removed or Left in Place:		Casing left in place and cut below grade.			
Drilling Contractor: GeoLab		Driller's Name: Edward Wayman			

ΔА	ldi	tio	nal	Nc	tes:
٦u	ıuı	uυ	ı ıaı	INC	nes.

Grout Mixture Used:

50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry



WELL NO.: TMW-4R

PROJECT NAME: CSX Hutchinson Island

PROJECT NO: 6-4300-5247.03.****

FINISH DATE: 6/27/2017

Name of Property:	CSX Hutchinson Isla	CSX Hutchinson Island			
Address of Property:	Hutchinson Island, S	avannah, Georgia			
Original Purpose of Well Installation:		Groundwater Monitoring			
Total Depth of Well (measured from Top of Riser):		11.7 ft. (measured on 6/27/2017)			
Top of Riser Height (above/below ground surface):		2.77 ft.			
Well Diameter (nominal) and Material Type:		2-inch PVC			
Screen Length:		8 ft.			
Depth to Water/Date (measured from Top of Riser):		4.85 (measured on 6/27/2017)			
Description of Well Abandonment Method:		Tremie Grout well to the surface with Wyo-Ben, Inc. Grout-Well DF bentonite grout slurry.			
Calculated Well Volume:		Approx. 1.9 gallons			
Type and Volume of Materials Used to Plug Well		Approx. 3 gallons of slurry			
Riser and/or Screen Length Removed or Left in Place:		Casing left in place and cut below grade.			
Drilling Contractor: GeoLab		Driller's Name: Edward Wayman			

ΔΑ	ldi	tio	nal	N	otes:	
٦u	ıuı	uo	Hai	יעו	uies.	

Grout Mixture Used:

50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry



WELL NO.: PZ-100

PROJECT NAME: CSX Hutchinson Island

PROJECT NO: 6-4300-5247.03.****

FINISH DATE: 6/27/2017

Name of Property:	CSX Hutchinson Island	
Address of Property:	Hutchinson Island, Savannah, Georgia	
Original Purpose of Well Installation:		Groundwater Monitoring
Total Depth of Well (measured from Top	of Riser):	9.98 ft. (measured on 6/27/2017)
Top of Riser Height (above/below ground	surface):	3.25 ft.
Well Diameter (nominal) and Material Typ	oe:	1-inch PVC
Screen length:		5 ft.
Depth to Water/Date (measured from Top of Riser):		3.86 (measured on 6/27/2017)
Description of Well Abandonment Method:		Tremie Grout well to the surface with Wyo-Ben, Inc. Grout-Well DF bentonite grout slurry.
Calculated Well Volume:		Approx. 0.4 gallons
Type and Volume of Materials Used to Plug Well		Approx. 0.5 gallons of slurry
Riser and/or Screen Length Removed or	Left in Place:	Casing left in place and cut below grade.
Drilling Contractor: GeoLab		Driller's Name: Edward Wayman

Additional Notes:

Grout Mixture Used:

50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry



WELL NO.: PZ-101

PROJECT NAME: CSX Hutchinson Island

PROJECT NO: 6-4300-5247.03.****

FINISH DATE: 6/27/2017

Name of Property:	CSX Hutchinson Island	
Address of Property:	Hutchinson Island, Savannah, Georgia	
Original Purpose of Well Installation:		Groundwater Monitoring
Total Depth of Well (measured from Top	of Riser):	9.11 ft. (measured on 6/27/2017)
Top of Riser Height (above/below ground	I surface):	3.54 ft.
Well Diameter (nominal) and Material Type	oe:	1-inch PVC
Screen length:		5 ft.
Depth to Water/Date (measured from Top	o of Riser):	4.52 (measured on 6/27/2017)
Description of Well Abandonment Method:		Tremie Grout well to the surface with Wyo-Ben, Inc. Grout-Well DF bentonite grout slurry.
Calculated Well Volume:		Approx. 0.4 gallons
Type and Volume of Materials Used to Plug Well		Approx. 0.5 gallons of slurry
Riser and/or Screen Length Removed or	Left in Place:	Casing left in place and cut below grade.
Drilling Contractor: GeoLab		Driller's Name: Edward Wayman

Additional Notes:

Grout Mixture Used:

50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry



WELL NO.: PZ-103

PROJECT NAME: CSX Hutchinson Island

PROJECT NO: 6-4300-5247.03.****

FINISH DATE: 6/27/2017

Name of Property:	CSX Hutchinson Island		
Address of Property:	Hutchinson Island, Savannah, Georgia		
Original Purpose of Well Installation:		Groundwater Monito	pring
Total Depth of Well (measured from Top	of Riser):	9.4 ft. (measured on	1 6/27/2017)
Top of Riser Height (above/below ground	I surface):	3.6 ft.	
Well Diameter (nominal) and Material Typ	oe:	1-inch PVC	
Screen length:		5 ft.	
Depth to Water/Date (measured from Top of Riser):		3.93 (measured on 0	6/27/2017)
Description of Well Abandonment Method:		Tremie Grout well to bentonite grout slurr	the surface with Wyo-Ben, Inc. Grout-Well DF
Calculated Well Volume:		Approx. 0.4 gallons	
Type and Volume of Materials Used to Plug Well		Approx. 0.5 gallons	of slurry
Riser and/or Screen Length Removed or Left in Place:		Casing left in place	and cut below grade.
Drilling Contractor: GeoLab		Driller's Name:	Edward Wayman

Additional Notes:

Grout Mixture Used:

50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry



WELL NO.: PZ-104

PROJECT NAME: CSX Hutchinson Island

PROJECT NO: 6-4300-5247.03.****

FINISH DATE: 6/27/2017

Name of Property:	CSX Hutchinson Island		
Address of Property:	Hutchinson Island, Savannah, Georgia		
Original Purpose of Well Installation:		Groundwater Monito	pring
Total Depth of Well (measured from Top	of Riser):	9.5 ft. (measured on	6/27/2017)
Top of Riser Height (above/below ground	l surface):	3.35 ft.	
Well Diameter (nominal) and Material Type	oe:	1-inch PVC	
Screen length:		5 ft.	
Depth to Water/Date (measured from Top of Riser):		4.02 (measured on 0	6/27/2017)
Description of Well Abandonment Method:		Tremie Grout well to bentonite grout slurr	the surface with Wyo-Ben, Inc. Grout-Well DF y.
Calculated Well Volume:		Approx. 0.4 gallons	
Type and Volume of Materials Used to Plug Well		Approx. 0.5 gallons	of slurry
Riser and/or Screen Length Removed or Left in Place:		Casing left in place	and cut below grade.
Drilling Contractor: GeoLab		Driller's Name:	Edward Wayman

Additional Notes:

Grout Mixture Used:

50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry



WELL NO.: PZ-105

PROJECT NAME: CSX Hutchinson Island

PROJECT NO: 6-4300-5247.03.****

FINISH DATE: 6/27/2017

Name of Property:	CSX Hutchinson Island	
Address of Property:	Hutchinson Island, Savannah, Georgia	
Original Purpose of Well Installation:		Groundwater Monitoring
Total Depth of Well (measured from Top	of Riser):	9.2 ft. (measured on 6/27/2017)
Top of Riser Height (above/below ground	d surface):	3.35 ft.
Well Diameter (nominal) and Material Ty	pe:	1-inch PVC
Screen length:		5 ft.
Depth to Water/Date (measured from To	p of Riser):	3.87 (measured on 6/27/2017)
Description of Well Abandonment Method:		Tremie Grout well to the surface with Wyo-Ben, Inc. Grout-Well DF bentonite grout slurry.
Calculated Well Volume:		Approx. 0.4 gallons
Type and Volume of Materials Used to Plug Well		Approx. 0.5 gallons of slurry
Riser and/or Screen Length Removed or Left in Place:		Casing left in place and cut below grade.
Drilling Contractor: GeoLab		Driller's Name: Edward Wayman

Grout Mixture Used:

50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry



WELL NO.: PZ-106

PROJECT NAME: CSX Hutchinson Island

PROJECT NO: 6-4300-5247.03.****

FINISH DATE: 6/26/2017

Name of Property:	CSX Hutchinson Island	
Address of Property:	Hutchinson Island, Savannah, Georgia	
Original Purpose of Well Installation:		Groundwater Monitoring
Total Depth of Well (measured from Top	of Riser):	9.5 ft. (measured on 6/26/2017)
Top of Riser Height (above/below ground	I surface):	2.3 ft.
Well Diameter (nominal) and Material Type	oe:	1-inch PVC
Screen length:		5 ft.
Depth to Water/Date (measured from Top	o of Riser):	3.10 (measured on 6/26/2017)
Description of Well Abandonment Method:		Tremie Grout well to the surface with Wyo-Ben, Inc. Grout-Well DF bentonite grout slurry.
Calculated Well Volume:		Approx. 0.4 gallons
Type and Volume of Materials Used to Plug Well		Approx. 0.5 gallons of slurry
Riser and/or Screen Length Removed or	Left in Place:	Casing left in place and cut below grade.
Drilling Contractor: GeoLab		Driller's Name: Edward Wayman

Additional Notes:

Grout Mixture Used:

50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry



WELL NO.: PZ-107

PROJECT NAME: CSX Hutchinson Island

PROJECT NO: 6-4300-5247.03.****

FINISH DATE: 6/26/2017

Name of Property:	CSX Hutchinson Island	
Address of Property:	Hutchinson Island, Savannah, Georgia	
Original Purpose of Well Installation:		Groundwater Monitoring
Total Depth of Well (measured from Top	of Riser):	9.95 ft. (measured on 6/26/2017)
Top of Riser Height (above/below ground	I surface):	2.25 ft.
Well Diameter (nominal) and Material Type	pe:	1-inch PVC
Screen length:		5 ft.
Depth to Water/Date (measured from Top of Riser):		3.05 (measured on 6/26/2017)
Description of Well Abandonment Method:		Tremie Grout well to the surface with Wyo-Ben, Inc. Grout-Well DF bentonite grout slurry.
Calculated Well Volume:		Approx. 0.4 gallons
Type and Volume of Materials Used to Plug Well		Approx. 0.5 gallons of slurry
Riser and/or Screen Length Removed or	Left in Place:	Casing left in place and cut below grade.
Drilling Contractor: GeoLab		Driller's Name: Edward Wayman

Additional Notes:

Grout Mixture Used:

50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry



WELL NO.: PZ-108

PROJECT NAME: CSX Hutchinson Island

PROJECT NO: 6-4300-5247.03.****

FINISH DATE: 6/26/2017

Name of Property:	CSX Hutchinson Island	
Address of Property:	Hutchinson Island, Savannah, Georgia	
Original Purpose of Well Installation:		Groundwater Monitoring
Total Depth of Well (measured from Top	of Riser):	10. ft. (measured on 6/26/2017)
Top of Riser Height (above/below ground	d surface):	2.5 ft.
Well Diameter (nominal) and Material Ty	pe:	1-inch PVC
Screen length:		5 ft.
Depth to Water/Date (measured from To	p of Riser):	3.52 (measured on 6/26/2017)
Description of Well Abandonment Method:		Tremie Grout well to the surface with Wyo-Ben, Inc. Grout-Well DF bentonite grout slurry.
Calculated Well Volume:		Approx. 0.4 gallons
Type and Volume of Materials Used to P	lug Well	Approx. 0.5 gallons of slurry
Riser and/or Screen Length Removed or	Left in Place:	Casing left in place and cut below grade.
Drilling Contractor: GeoLab		Driller's Name: Edward Wayman

Additional Notes:

Grout Mixture Used:

50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry



WELL NO.: PZ-111

PROJECT NAME: CSX Hutchinson Island

PROJECT NO: 6-4300-5247.03.****

FINISH DATE: 6/26/2017

Name of Property:	CSX Hutchinson Island	
Address of Property:	Hutchinson Island, Savannah, Georgia	
Original Purpose of Well Installation:		Groundwater Monitoring
Total Depth of Well (measured from Top	of Riser):	10 ft. (measured on 6/26/2017)
Top of Riser Height (above/below ground	surface):	2.5 ft.
Well Diameter (nominal) and Material Typ	pe:	1-inch PVC
Screen length:		5 ft.
Depth to Water/Date (measured from Top of Riser):		3.84 (measured on 6/26/2017)
Description of Well Abandonment Method:		Tremie Grout well to the surface with Wyo-Ben, Inc. Grout-Well DF bentonite grout slurry.
Calculated Well Volume:		Approx. 0.4 gallons
Type and Volume of Materials Used to Plug Well		Approx. 0.5 gallons of slurry
Riser and/or Screen Length Removed or Left in Place:		Casing left in place and cut below grade.
Drilling Contractor: GeoLab		Driller's Name: Edward Wayman

Additional Notes:

Grout Mixture Used:

50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry



WELL NO.: PZ-112

PROJECT NAME: CSX Hutchinson Island

PROJECT NO: 6-4300-5247.03.****

FINISH DATE: 6/26/2017

Name of Property:	CSX Hutchinson Island	
Address of Property:	Hutchinson Island, Sa	avannah, Georgia
Original Purpose of Well Installation:		Groundwater Monitoring
Total Depth of Well (measured from Top	of Riser):	10 ft. (measured on 6/26/2017)
Top of Riser Height (above/below ground	I surface):	2.5 ft.
Well Diameter (nominal) and Material Type	pe:	1-inch PVC
Screen length:		5 ft.
Depth to Water/Date (measured from Top of Riser):		4.42 (measured on 6/26/2017)
Description of Well Abandonment Method:		Tremie Grout well to the surface with Wyo-Ben, Inc. Grout-Well DF bentonite grout slurry.
Calculated Well Volume:		Approx. 0.4 gallons
Type and Volume of Materials Used to Plug Well		Approx. 0.5 gallons of slurry
Riser and/or Screen Length Removed or Left in Place:		Casing left in place and cut below grade.
Drilling Contractor: GeoLab		Driller's Name: Edward Wayman

Additional Notes:

Grout Mixture Used:

50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry



WELL NO.: PZ-113

PROJECT NAME: CSX Hutchinson Island

PROJECT NO: 6-4300-5247.03.****

FINISH DATE: 6/26/2017

Name of Property:	CSX Hutchinson Island	
Address of Property:	Hutchinson Island, Sa	avannah, Georgia
Original Purpose of Well Installation:		Groundwater Monitoring
Total Depth of Well (measured from Top	of Riser):	10 ft. (measured on 6/26/2017)
Top of Riser Height (above/below ground	surface):	2.5 ft.
Well Diameter (nominal) and Material Tyl	oe:	1-inch PVC
Screen length:		5 ft.
Depth to Water/Date (measured from Top of Riser):		4.24 (measured on 6/26/2017)
Description of Well Abandonment Method:		Tremie Grout well to the surface with Wyo-Ben, Inc. Grout-Well DF bentonite grout slurry.
Calculated Well Volume:		Approx. 0.4 gallons
Type and Volume of Materials Used to Plug Well		Approx. 0.5 gallons of slurry
Riser and/or Screen Length Removed or	Left in Place:	Casing left in place and cut below grade.
Drilling Contractor: GeoLab		Driller's Name: Edward Wayman

Additional Notes:

Grout Mixture Used:

50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry



WELL NO.: PZ-114

PROJECT NAME: CSX Hutchinson Island

PROJECT NO: 6-4300-5247.03.****

FINISH DATE: 6/26/2017

Name of Property:	CSX Hutchinson Isla	nd							
Address of Property:	Hutchinson Island, S	Savannah, Georgia							
Original Purpose of Well Installation:		Groundwater Monitoring							
Total Depth of Well (measured from Top	of Riser):	9.91 ft. (measured on 6/26/2017)							
Top of Riser Height (above/below groun	d surface):	2.5 ft.							
Well Diameter (nominal) and Material Ty	pe:	1-inch PVC							
Screen length:		5 ft.							
Depth to Water/Date (measured from Top of Riser):		4.87 (measured on 6/26/2017)							
Description of Well Abandonment Method	d:	Tremie Grout well to the surface with Wyo-Ben, Inc. Grout-Well DF bentonite grout slurry.							
Calculated Well Volume:		Approx. 0.4 gallons							
Type and Volume of Materials Used to P	lug Well	Approx. 0.5 gallons of slurry							
Riser and/or Screen Length Removed or	Left in Place:	Casing left in place and cut below grade.							
Drilling Contractor: GeoLab		Driller's Name: Edward Wayman							

Additional Notes:

Grout Mixture Used:

50lb bag of Wyo-Ben, Inc. Grout-Well + 28 gallons water = 31 gallons slurry

APPENDIX B WASTE MANIFESTS



	NON-HAZARDOUS MANIFEST	1. Generator's U	nifest Doc I	No.	2. Page 1	of	170001							
	3. Generator's Mailing Address: CSX Transportation, Inc. Attn: Coley Campbell 6737 Southpoint Dr South	CSX TRAN	erator's Site Address (If different than mailing): FRANPSORATION O HUTCHINSON ISLAND ROAD ANNAH, GA 31421					est Number /MNA B. State	e Generator's	s ID				
	Jacksonville, FL 32216 4. Generator's Phone 904-279-3923													
	5. Transporter 1 Company Name		6.	US	S EPA ID	Number								
	Waste Management, Inc.			*					C. State Transporter's ID					
	7. Transporter 2 Company Name		8.	8. US EPA ID Number					D. Transporter's Phone					
								E. State T	E. State Transporter's ID					
	9. Designated Facility Name and Site Address Superior Landfill 3001 Little Neck Rd Savannah, GA 31419								orter's Phone	e				
				10. US EPA ID Number				G. State Facility ID H. State Facility Phone						
	2													
G E	11. Description of Waste Materials					No.	ntainers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments				
N E	a. Construction Debris				1	BX	€10	T			y			
R	WM Profile # 406311GA													
A T O	b.								2					
R	WM Profile #													
	c													
	WM Profile #						,							
	d.													
	WM Profile # J. Additional Descriptions for Materials Listed Above					K. Disposal Location								
	BILL TO:					Cell Grid				Level		4		
¢	15. Special Handling Instructions and Additional Information CSXT Project #R9415575													
	Emergency Contact Phone Number: PSCC – 1-800-232-0144 AMFW Project # 643005247 201711577CC-ASC													
	Purchase Order # EMERGENCY CONTACT / PHONE NO.:													
	16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and													
	accurately described, classified and pa	ickaged and are in					rding to ap	oplicable regu	ılations.					
	Printed Name Standard V. Fanze as Armer Foll Standard V. Fanze as Armer Foll Find the Following Standard V. Fanze as Armer Foll Standard V. Fanze as Armer Foll									Month	Day	Year		
Т	17. Transporter 1 Acknowledgement	of Receipt of Mate	erials	Jaken 17	120			127		00	06	17		
R A	Printed Name Signature									Month	Day	Year		
N S P	Borry NOMEL BC					06 22 1						17		
O R	18. Transporter 2 Acknowledgement of Receipt of Materials Printed Name Signature									Marth	T p	Year		
T E R	Fillited Name		= 11	Signature						Month	Day	real		
	19. Certificate of Final Treatment/Disposal													
F A C		I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.												
L	20. Facility Owner or Operator: Certif	fication of receipt	of non-ha	n-hazardous materials covered by this manifest.										
Printed Name				Signature						Month	Day	Year		



No Type Quantity Wt Vol	ID											
CSX Transportation, Inc. Attn: Coley Campbell 6737 Southpoint Dr South Jacksonville, FL 32216 4. Generator's Phone 904-279-3923 5. Transporter 1 Company Name Waste Management, Inc. 7. Transporter 2 Company Name 9. Designated Facility Name and Site Address Superior Landfill 3001 Little Neck Rd Savannah, GA 31419 G 11. Description of Waste Materials CSX TRANPSORATION 4430 HUTCHINSON ISLAND ROAD B. State Generator's ID COUNTY: CHATHAM 6. US EPA ID Number C. State Transporter's ID D. Transporter's ID F. Transporter's Phone G. State Facility ID H. State Facility Phone	ID											
Attn: Coley Campbell 6737 Southpoint Dr South Jacksonville, FL 32216 4. Generator's Phone 904-279-3923 5. Transporter 1 Company Name Waste Management, Inc. 7. Transporter 2 Company Name 9. Designated Facility Name and Site Address Superior Landfill 3001 Little Neck Rd Savannah, GA 31419 G 11. Description of Waste Materials 4430 HUTCHINSON ISLAND ROAD B. State Generator's ID COUNTY: CHATHAM 4. Generator's Phone 6. US EPA ID Number C. State Transporter's ID D. Transporter's Phone E. State Transporter's Phone G. State Facility ID H. State Facility Phone	ID											
SAVANNAH, GA 31421 Jacksonville, FL 32216 4. Generator's Phone 904-279-3923 5. Transporter 1 Company Name Waste Management, Inc. 7. Transporter 2 Company Name 9. Designated Facility Name and Site Address Superior Landfill 3001 Little Neck Rd Savannah, GA 31419 G 11. Description of Waste Materials SAVANNAH, GA 31421 COUNTY: CHATHAM 6. US EPA ID Number E. State Transporter's ID F. Transporter's Phone 9. Designated Facility Name and Site Address Superior Landfill 3001 Little Neck Rd Savannah, GA 31419	ID											
Jacksonville, FL 32216 4. Generator's Phone 904-279-3923 5. Transporter 1 Company Name Waste Management, Inc. 7. Transporter 2 Company Name 9. Designated Facility Name and Site Address Superior Landfill 3001 Little Neck Rd Savannah, GA 31419 G 11. Description of Waste Materials COUNTY: CHATHAM 6. US EPA ID Number C. State Transporter's ID D. Transporter's Phone E. State Transporter's Phone G. State Facility ID H. State Facility Phone												
4. Generator's Phone 904-279-3923 5. Transporter 1 Company Name Waste Management, Inc. 7. Transporter 2 Company Name 9. Designated Facility Name and Site Address Superior Landfill 3001 Little Neck Rd Savannah, GA 31419 G 11. Description of Waste Materials 6. US EPA ID Number C. State Transporter's ID D. Transporter's Phone E. State Transporter's Phone F. Transporter's Phone 9. Designated Facility Name and Site Address Superior Landfill 3001 Little Neck Rd Savannah, GA 31419												
5. Transporter 1 Company Name Waste Management, Inc. 7. Transporter 2 Company Name 9. Designated Facility Name and Site Address Superior Landfill 3001 Little Neck Rd Savannah, GA 31419 G 11. Description of Waste Materials 6. US EPA ID Number C. State Transporter's ID D. Transporter's Phone E. State Transporter's ID F. Transporter's Phone G. State Facility ID H. State Facility Phone												
Waste Management, Inc. 7. Transporter 2 Company Name 8. US EPA ID Number E. State Transporter's ID F. Transporter's Phone 9. Designated Facility Name and Site Address Superior Landfill 3001 Little Neck Rd Savannah, GA 31419 G. State Facility ID H. State Facility Phone												
Waste Management, Inc. 7. Transporter 2 Company Name 8. US EPA ID Number E. State Transporter's ID F. Transporter's Phone 9. Designated Facility Name and Site Address Superior Landfill 3001 Little Neck Rd Savannah, GA 31419 G. State Facility ID H. State Facility Phone												
7. Transporter 2 Company Name 8. US EPA ID Number E. State Transporter's ID F. Transporter's Phone 9. Designated Facility Name and Site Address Superior Landfill 3001 Little Neck Rd Savannah, GA 31419 G. State Facility ID H. State Facility Phone												
9. Designated Facility Name and Site Address Superior Landfill 3001 Little Neck Rd Savannah, GA 31419 G 11. Description of Waste Materials E. State Transporter's ID F. Transporter's Phone 10. US EPA ID Number G . State Facility ID H. State Facility Phone												
9. Designated Facility Name and Site Address Superior Landfill 3001 Little Neck Rd Savannah, GA 31419 G. State Facility ID H. State Facility Phone 12. Containers 13. Total 14. Unit We Wool We will be the state of the state o												
Superior Landfill 3001 Little Neck Rd Savannah, GA 31419 G. State Facility ID H. State Facility Phone 12. Containers 13. Total 14. Unit We Wool We Wool I. Mis	F. Transporter's Phone											
3001 Little Neck Rd Savannah, GA 31419 H. State Facility Phone 12. Containers 13. Total 14. Unit W. Mol. Type Quantity W. Mol. I. Min												
Savannah, GA 31419 G 11. Description of Waste Materials 12. Containers 13. Total 14. Unit 1. Mis 14. Unit 1. Mis 15. Mis 15. Type (Quantity Wt //ol 1. Mis 15. Mis 1												
11. Description of Waste Materials	H. State Facility Phone											
11. Description of Waste Materials												
No Type Quantity Wt /vol	I. Misc. Comments											
	sc. comments											
N a. Construction Debris												
R WM Profile # 406311GA												
MM Profile # 406311GA A b.												
T												
O R WM Profile #												
R WM Profile # c.												
WM Profile #												
d.												
WM Profile #												
J. Additional Descriptions for Materials Listed Above K. Disposal Location												
BILL TO: Cell Level												
15. Special Handling Instructions and Additional Information CSXT Project #R9415575 Emergency Contact Phone Number: PSCC = 1-800-232-0144 AMEW Project # 643005247, 201711577 CC-ASC												
Emergency Contact Phone Number: PSCC – 1-800-232-0144 AMFW Project # 643005247 2017115 CC-ASC												
Purchase Order # EMERGENCY CONTACT / PHONE NO.:	Purchase Order # FMERGENCY CONTACT / PHONE NO											
16. GENERATOR'S CERTIFICATE:												
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been full	ly and											
accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.												
Printed Name Signature "On behalf of" Month												
KUGULK FRANZE JE ANNE FOL	22 17											
T 17. Transporter 1 Acknowledgement of Receipt of Materials Printed Name Signature	Day Year											
N D C A A A A A A A A A A A A A A A A A A	22 13											
18. Transporter 2 Acknowledgement of Receipt of Materials												
Printed Name Signature Month	Day Year											
E R												
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance.	e with all											
A Certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance applicable laws, regulations, permits and licenses on the dates listed above.												
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.												
Printed Name Signature Month												
Y	Day Year											



	WASTE MANAGEMENT													
	NON-HAZARDOUS MANIFEST	M	anifest Doc I		2. Page 1	2. Page 1 of 17								
	3. Generator's Mailing Address: CSX Transportation, Inc. Attn: Coley Campbell 6737 Southpoint Dr South Jacksonville, FL 32216	Generator's Site Address (If di CSX TRANPSORATION, I 4430 HUTCHINSON ISLA SAVANNAH, GA 64346 COUNTY: CHATHAM				INC.			st Number MNA B. State	Generator's	s ID			
	4. Generator's Phone 904-27	9-3923		6.		D Number								
	Waste Management, Inc.			0.	US EPA II) Number		C. State Transporter's ID						
	7. Transporter 2 Company Name	7. Transporter 2 Company Name			US EPA II	D Number	SIL.	D. Transporter's Phone						
								E. State Transporter's ID						
	9. Designated Facility Name and Site Address Superior Landfill				US EPA	ID Number		F. Transporter's Phone						
	3001 Little Neck Rd							G. State Facility ID H. State Facility Phone						
	Savannah, GA 31419													
G	11. Description of Waste Materials			12. Co	ntainers Type	13. Total 14. Unit Quantity Wt./Vol.		I. Misc. Comments		nts				
E N E	a. Petroleum Impacted Material (Soil)					1	lo	BT 15	-					
R A	WM Profile # 406329GA													
Т	b.							4						
O R	WM Profile #													
	c.													
	WM Profile #													
	d.													
	WM Profile #													
	9000 9000 0 DC 00 00000 000	. Additional Descriptions for Materials Listed Above					K. Disposal Location							
	BILL TO:					Cell Level								
	15. Special Handling Instructions and Additional Information													
	Emergency Contact Phone Nu 201711850CC-ASC	Emergency Contact Phone Number: PSCC – 1-800-232-0144 Contract #: ENV130377 Project #: R9415575 AMEC #:643005247												
	Purchase Order # EMERGENCY CONTACT / PHONE NO.:										*			
	16. GENERATOR'S CERTIFICATE: I hereby certify that the above-descri													
	I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.													
	Printed Name KNSSCON K. FRAZE AS	esthered	Ant	Signa	tu/e "On beha	If of"				Month	Day (Year		
T R		17. Transporter 1 Acknowledgement of Receipt of Materials												
A N S P	Printed Name Signature Signature 18. Transporter 2 Acknowledgement of Receipt of Materials						n		3	Month	Day	Year		
O R T	Printed Name	Of Necellat of Ivia		Signa	ture					Month	Day	Year		
E R														
F	19. Certificate of Final Treatment/Dis	-												
A C	I certify, on behalf of the above listed applicable laws, regulations, permits a					edge, the ab	ove-descri	bed waste w	as managed	in complian	ce with all			
L	20. Facility Owner or Operator: Certi					overed by th	nis manifes	t.						
T Y	Printed Name			Signa	ture					Month	Day	Year		



	MAGIE MANAGEMENT											
	NON-HAZARDOUS MANIFEST	1. Generator's l	US EPA ID No.	Ma	anifest Doc 1 7 0 0		2. Page 1 of		170003			
	3. Generator's Mailing Address: CSX Transportation, Inc. Attn: Coley Campbell 6737 Southpoint Dr South Jacksonville, FL 32216		CSX TRAN 4430 HUT SAVANNA	Site Address (If d PSORATION, CHINSON ISLA IH, GA 64346 CHATHAM	ailing):	A. Manifest Number WMNA B. State Generator's ID						
	4. Generator's Phone 904-279 5. Transporter 1 Company Name	6.										
	Waste Management, Inc.			OSEFAII) Number		C. State Transporter's ID					
	7. Transporter 2 Company Name		8.	US EPA II) Number		D. Transporter's Phone					
								e Transporter's ID				
	9. Designated Facility Name and Site Address Superior Landfill 3001 Little Neck Rd			US EPA	ID Number	,	G. State Facility ID H. State Facility Phone					
	Savannah, GA 31419											
G	11. Description of Waste Materials		-		12. Co No.	ntainers Type	13. Total Quantity	14. Unit Wt./Vol.	I. N	lisc. Comments		
E N E	a. Petroleum Impacted Mat	*		1	120	15	T					
E R	WM Profile # 406329GA											
A T O R	b. WM Profile # c.								*			
	WM Profile #											
	d.											
	WM Profile # J. Additional Descriptions for Materials Listed Above					K. Disposal Location						
	BILL TO:					Cell Level Grid						
	15. Special Handling Instructions and Additional Information											
	Emergency Contact Phone Number: PSCC – 1-800-232-0144 Contract #: ENV130377 Project #: R9415575 AMEC #:643005247											
	201711849CC-ASC Purchase Order # EMERGENCY CONTACT / PHONE NO.:											
	16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations. Printed Name Signature "On behalf of" Wonth Day Year 7 / O											
T R A N S	17. Transporter 1 Acknowledgement Printed Name		terials	nature Pers	A.	n	2.16	2	Month	,	Year	
P O R T E R	18. Transporter 2 Acknowledgement of Receipt of Materials Printed Name Signature					Month Day Year						
F A C	19. Certificate of Final Treatment/Dis I certify, on behalf of the above listed applicable laws, regulations, permits a	treatment facility			edge, the al	oove-describ	bed waste w	vas managed	in complian	ce with all		
L I T Y	20. Facility Owner or Operator: Certi Printed Name	overed by th	his manifest	t.		Month	Day	Year				
	Printed Name Signature											