Data Sources: US Geological Survey (Elevation Products)

Checked By:	AS
Created By:	JC
Scale:	1 " = 754 FT
Date/Time:	9/20/2020; 14:18
Project No.:	CPC20126

Site Vicinity Map
Colonial Pipeline Company
2020-L1-2448 Release
Huntersville, North Carolina

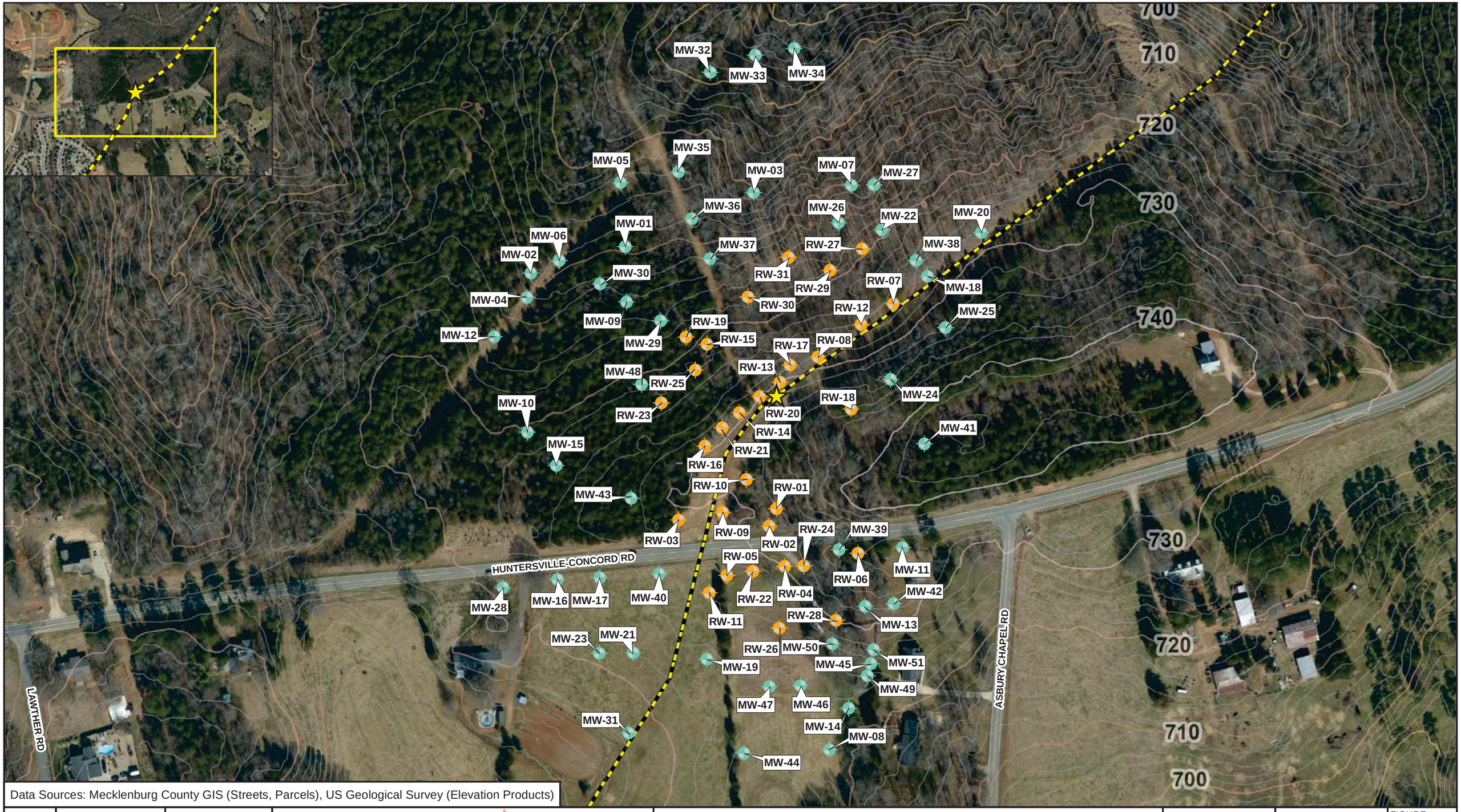
0 405 810 1,620 2,430 Feet

Preliminary

Figure
1

Release Site

APEX



Data Sources: Mecklenburg County GIS (Streets, Parcels), US Geological Survey (Elevation Products)

Checked By:	AS
Created By:	JC
Scale:	1 " = 167 FT
Date/Time:	9/20/2020; 14:29
Project No.:	CPC20126

Site Plan
Colonial Pipeline Company
2020-L1-2448 Release
Huntersville, North Carolina

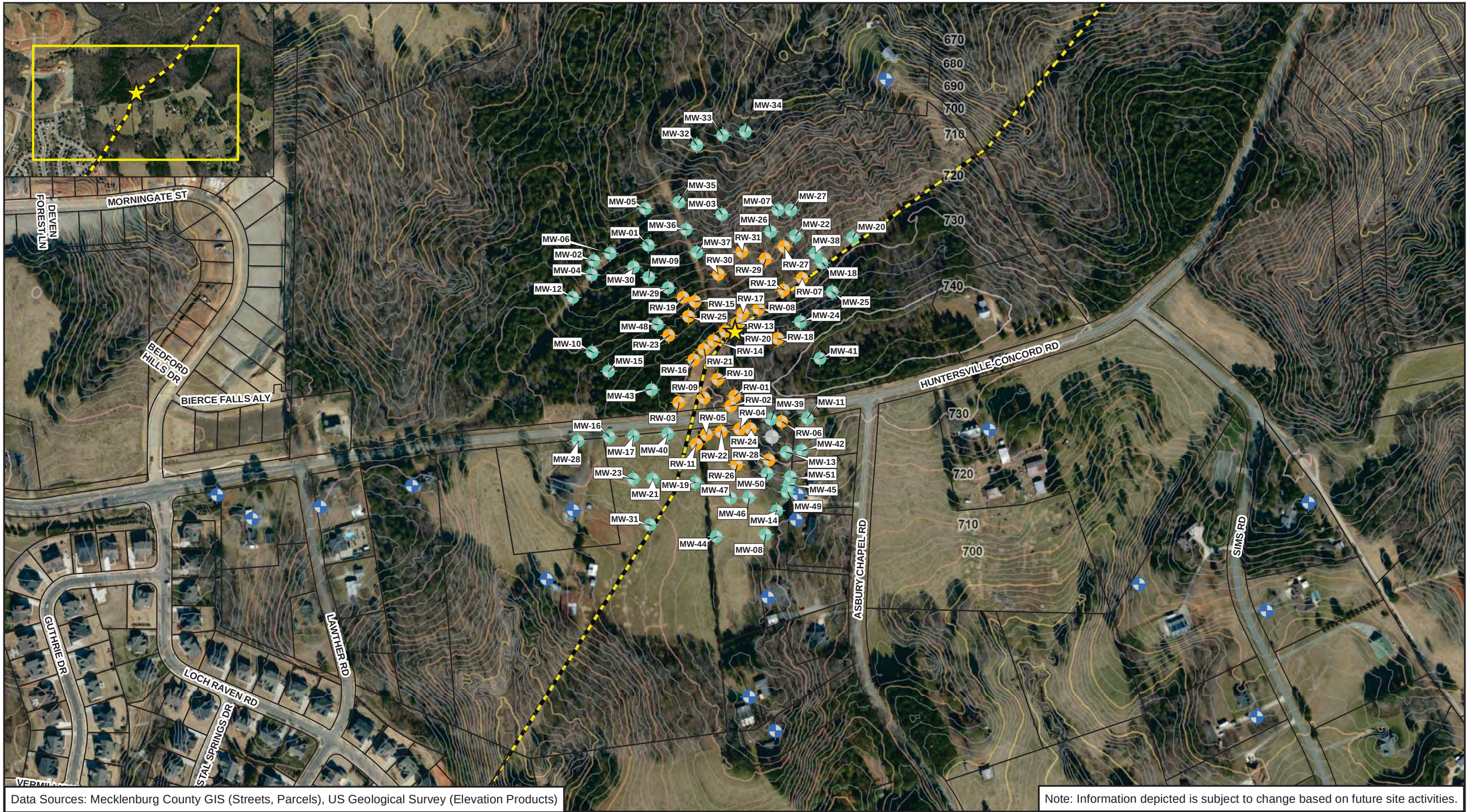
Preliminary

0 100 200 400 600 Feet

Release Site
Monitoring Well
Pipeline
Recovery Well

APEX

FIGURE 2



Data Sources: Mecklenburg County GIS (Streets, Parcels), US Geological Survey (Elevation Products)

Note: Information depicted is subject to change based on future site activities.

Checked By:	AS
Created By:	JC
Scale:	1 " = 292 FT
Date/Time:	9/20/2020; 14:24
Project No.:	CPC20126

Site Plan with Well Locations
Colonial Pipeline Company
2020-L1-2448 Release
Huntersville, North Carolina

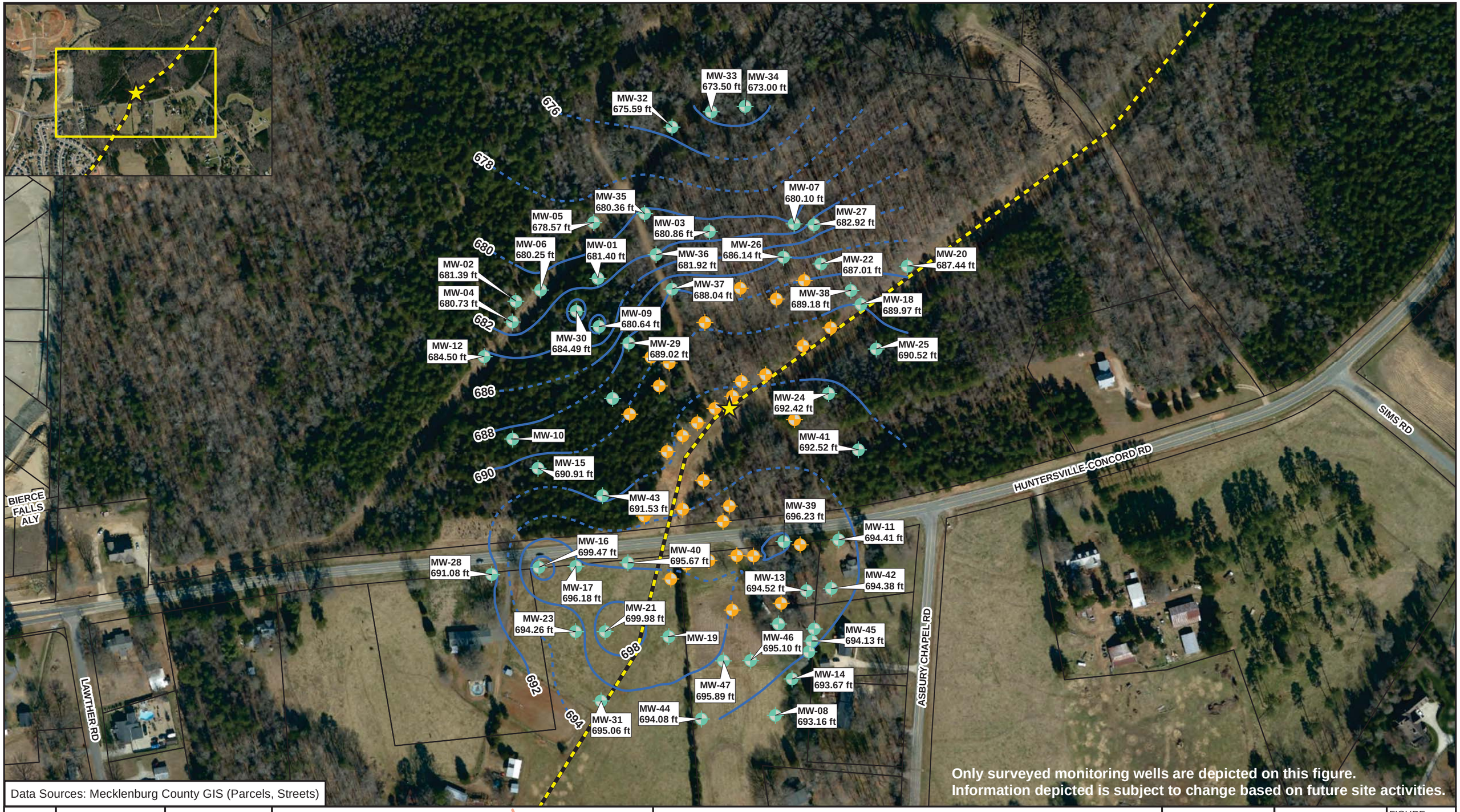
Preliminary

0 180 360 720 1,080 Feet

Release Site
Pipeline
Monitoring Well
Recovery Well
Water Supply Well
Water Supply Well (Abandoned)
Parcel Boundaries

APEX

FIGURE 3



Data Sources: Mecklenburg County GIS (Parcels, Streets)

Only surveyed monitoring wells are depicted on this figure.
Information depicted is subject to change based on future site activities.

Checked By:	AS
Created By:	JC
Scale:	1 " = 192 FT
Date/Time:	9/20/2020; 14:33
Project No.:	CPC20126

Groundwater Potentiometric Surface Map
Colonial Pipeline Company
2020-L1-2448 Release
Huntersville, North Carolina

Preliminary

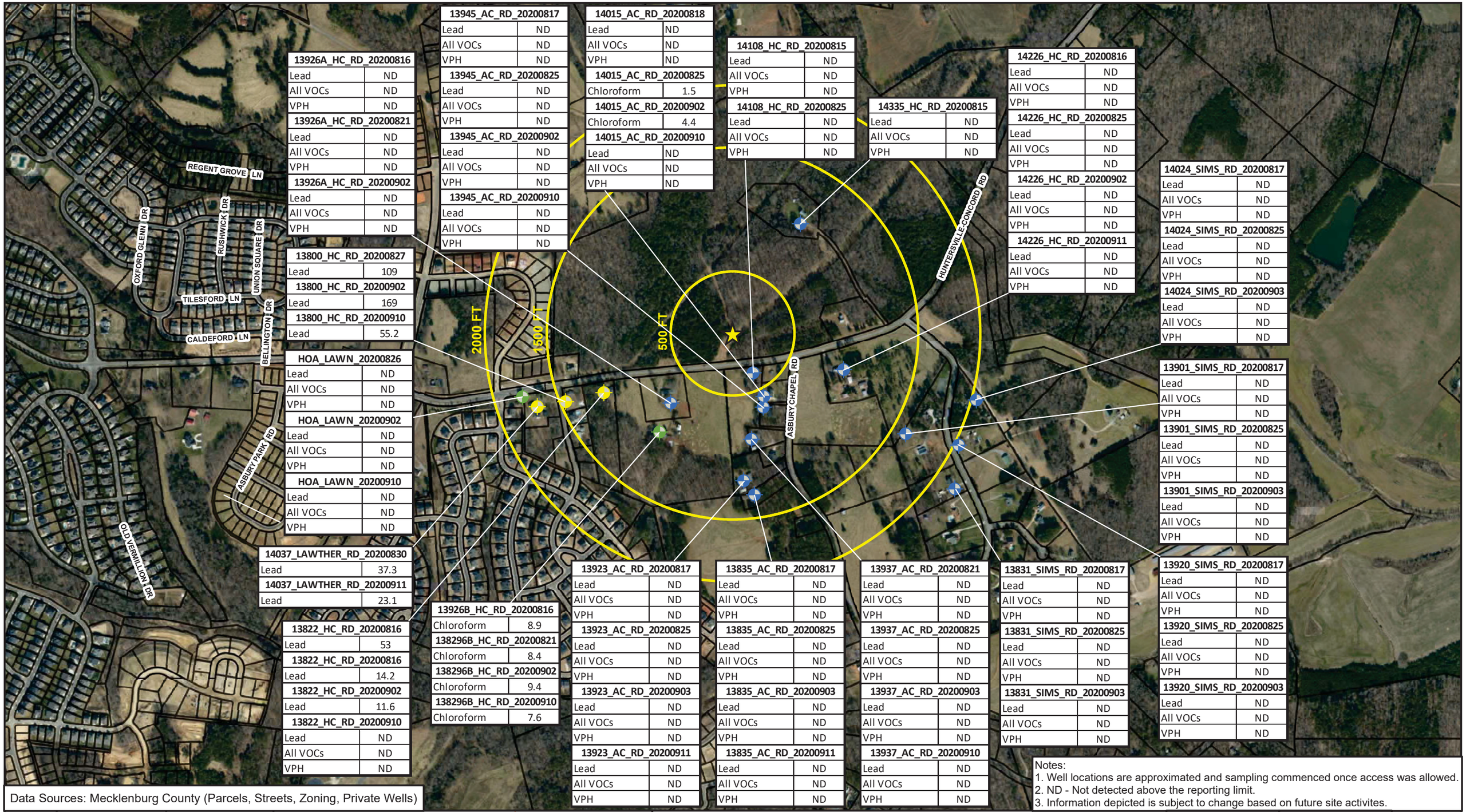
0 120 240 480 720 Feet

Release Site
Pipeline
Equipotential Contour (Ft. MSL)
(Dashed where Inferred)
Monitoring Well
Recovery Well
Parcel Boundaries

NOTE:
Recovery Wells, MW-10 (Dry), MW-19, MW-48, MW-49, MW-50, MW-51 not used for contouring
Contours based on monitoring well gauging data collected on 09/14/2020
Contours interpolated using ArcMap Spatial Analyst (Kriging)

APEX

FIGURE
4



13926A_HC_RD_20200816	
Lead	ND
All VOCs	ND
VPH	ND
13926A_HC_RD_20200821	
Lead	ND
All VOCs	ND
VPH	ND
13926A_HC_RD_20200902	
Lead	ND
All VOCs	ND
VPH	ND

13945_AC_RD_20200817	
Lead	ND
All VOCs	ND
VPH	ND
13945_AC_RD_20200825	
Lead	ND
All VOCs	ND
VPH	ND
13945_AC_RD_20200902	
Lead	ND
All VOCs	ND
VPH	ND
13945_AC_RD_20200910	
Lead	ND
All VOCs	ND
VPH	ND

14015_AC_RD_20200818	
Lead	ND
All VOCs	ND
VPH	ND
14015_AC_RD_20200825	
Chloroform	1.5
14015_AC_RD_20200902	
Chloroform	4.4
14015_AC_RD_20200910	
Lead	ND
All VOCs	ND
VPH	ND

14108_HC_RD_20200815	
Lead	ND
All VOCs	ND
VPH	ND
14108_HC_RD_20200825	
Lead	ND
All VOCs	ND
VPH	ND

14335_HC_RD_20200815	
Lead	ND
All VOCs	ND
VPH	ND

14226_HC_RD_20200816	
Lead	ND
All VOCs	ND
VPH	ND
14226_HC_RD_20200825	
Lead	ND
All VOCs	ND
VPH	ND
14226_HC_RD_20200902	
Lead	ND
All VOCs	ND
VPH	ND
14226_HC_RD_20200911	
Lead	ND
All VOCs	ND
VPH	ND

14024_SIMS_RD_20200817	
Lead	ND
All VOCs	ND
VPH	ND
14024_SIMS_RD_20200825	
Lead	ND
All VOCs	ND
VPH	ND
14024_SIMS_RD_20200903	
Lead	ND
All VOCs	ND
VPH	ND

13800_HC_RD_20200827	
Lead	109
13800_HC_RD_20200902	
Lead	169
13800_HC_RD_20200910	
Lead	55.2

HOA_LAWN_20200826	
Lead	ND
All VOCs	ND
VPH	ND
HOA_LAWN_20200902	
Lead	ND
All VOCs	ND
VPH	ND
HOA_LAWN_20200910	
Lead	ND
All VOCs	ND
VPH	ND

13901_SIMS_RD_20200817	
Lead	ND
All VOCs	ND
VPH	ND
13901_SIMS_RD_20200825	
Lead	ND
All VOCs	ND
VPH	ND
13901_SIMS_RD_20200903	
Lead	ND
All VOCs	ND
VPH	ND

14037_LAWTHER_RD_20200830	
Lead	37.3
14037_LAWTHER_RD_20200911	
Lead	23.1

13822_HC_RD_20200816	
Lead	53
13822_HC_RD_20200816	
Lead	14.2
13822_HC_RD_20200902	
Lead	11.6
13822_HC_RD_20200910	
Lead	ND
All VOCs	ND
VPH	ND

13926B_HC_RD_20200816	
Chloroform	8.9
138296B_HC_RD_20200821	
Chloroform	8.4
138296B_HC_RD_20200902	
Chloroform	9.4
138296B_HC_RD_20200910	
Chloroform	7.6

13923_AC_RD_20200817	
Lead	ND
All VOCs	ND
VPH	ND
13923_AC_RD_20200825	
Lead	ND
All VOCs	ND
VPH	ND
13923_AC_RD_20200903	
Lead	ND
All VOCs	ND
VPH	ND
13923_AC_RD_20200911	
Lead	ND
All VOCs	ND
VPH	ND

13835_AC_RD_20200817	
Lead	ND
All VOCs	ND
VPH	ND
13835_AC_RD_20200825	
Lead	ND
All VOCs	ND
VPH	ND
13835_AC_RD_20200903	
Lead	ND
All VOCs	ND
VPH	ND
13835_AC_RD_20200911	
Lead	ND
All VOCs	ND
VPH	ND

13937_AC_RD_20200821	
Lead	ND
All VOCs	ND
VPH	ND
13937_AC_RD_20200825	
Lead	ND
All VOCs	ND
VPH	ND
13937_AC_RD_20200903	
Lead	ND
All VOCs	ND
VPH	ND
13937_AC_RD_20200910	
Lead	ND
All VOCs	ND
VPH	ND

13831_SIMS_RD_20200817	
Lead	ND
All VOCs	ND
VPH	ND
13831_SIMS_RD_20200825	
Lead	ND
All VOCs	ND
VPH	ND
13831_SIMS_RD_20200903	
Lead	ND
All VOCs	ND
VPH	ND

13920_SIMS_RD_20200817	
Lead	ND
All VOCs	ND
VPH	ND
13920_SIMS_RD_20200825	
Lead	ND
All VOCs	ND
VPH	ND
13920_SIMS_RD_20200903	
Lead	ND
All VOCs	ND
VPH	ND

Notes:
1. Well locations are approximated and sampling commenced once access was allowed.
2. ND - Not detected above the reporting limit.
3. Information depicted is subject to change based on future site activites.

Data Sources: Mecklenburg County (Parcels, Streets, Zoning, Private Wells)

Checked By:	AS
Created By:	JC
Scale:	1 " = 700 FT
Created On:	9/20/2020; 14:48
Project No.:	CPC20126

Water Supply Well Sampling Results
Round 4
Colonial Pipeline Company
Huntersville, North Carolina

Preliminary

0 325 650 1,300 1,950 Feet

Release Site

Parcels

Sampled Water Supply Wells:

Non-Potable Use Well

Potable Use Well

Inactive Use Well

APEX

FIGURE 5

AECOM LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO: 60639876 | BORING NO: MW-1 | PROJECT NAME: Colonial Pipeline

DATE BEGAN: 8/24/2020 | DATE FINISHED: 8/24/2020 | FIELD ENGINEER: B. Weiserbs

DRILLER: T. Whitehead | NORTH: 610872.421 | EAST: 1461603.523

TOP OF CASING ELEVATION: 711.86' | GWL DATE/TIME: 9/14/2020 | GWL DEPTH: 28.20' btoc

DRILLING METHOD: 4.25" ID Hollow Stem Auger / DPT | DRILL EQUIP: Geoprobe 7730 DT | CHECKED BY: AJW

CONTRACTOR: SM&E

ELEVATION (FT)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	WELL CONSTRUCTION
0.0	0	HSA		100		Data available from boring log SB-37 provided by APEX				Locking Well Cap; Stick-up Well Cover; Concrete Pad; Grout; 2" PVC Casing; Bentonite Plug; #2 Filter Sand; 0.010 Slotted Screen
-5.0	5									
-10.0	10									
-15.0	15									
-20.0	20					SM: Dark gray silty SAND, moist, fine grained, medium sorted, saprolite, diorite structure, slightly micaceous, no odor	SM	2.9 2.9 3.1 0.8 0.6 0.5 0.1	▼	
-25.0	25									
-30.0	30					Boring terminated @ 34' bgs				

AECOM

Soil Boring and Well Installation Log
Colonial Pipeline
Huntersville-Concord Rd
Huntersville, NC
2020-L1-2248 Incident

DRAWN BY: MPS | CHECKED BY: AJW | PROJECT NO: 60639876

SHEET: DRAFT

AECOM LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO: 60639876 | BORING NO: MW-2 | PROJECT NAME: Colonial Pipeline

DATE BEGAN: 8/25/2020 | DATE FINISHED: 8/25/2020 | FIELD ENGINEER: B. Weiserbs

DRILLER: T. Whitehead | NORTH: 610823.419 | EAST: 1461424.282

TOP OF CASING ELEVATION: 712.53' | GWL DATE/TIME: 9/14/2020 | GWL DEPTH: 29.57 btoc'

DRILLING METHOD: 4.25" ID Hollow Stem Auger / DPT | DRILL EQUIP: Geoprobe 7730 DT | CHECKED BY: AJW

CONTRACTOR: SM&E

ELEVATION (FT)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	WELL CONSTRUCTION
0.0	0	HSA				CL: Dark brown sandy CLAY, moist, low plasticity, organics		6.8		Locking Well Cap
						CL: Dark brown sandy CLAY, dry, non-plastic, saprolite, slightly micaceous		2.0		Stick-up Well Cover
-5.0	5			100				2.3		Concrete Pad
								2.0		Grout
-10.0	10						CL	7.5		
			MW-2 (12.5-15)					7.5		2" PVC Casing
-15.0	15			60				3.2		Bentonite Plug
								5.2		
-20.0	20							2.7		
			MW-2 (22.5-25)					2.9		
-25.0	25			100		SM: Light gray silty SAND, fine grained, medium sorted, diorite structure, saprolite, slightly micaceous		1.2	▼	#2 Filter Sand
							SM			
-30.0	30							0.5		0.010 Slotted Screen
				40		HSA refusal @ 34' bgs		4.1		

AECOM

Soil Boring and Well Installation Log
Colonial Pipeline
Huntersville-Concord Rd
Huntersville, NC
2020-L1-2248 Incident

DRAWN BY: MPS | CHECKED BY: AJW | PROJECT NO: 60639876

SHEET: DRAFT

AECOM LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO: 60639876	BORING NO: MW-3	PROJECT NAME: Colonial Pipeline
DATE BEGAN: 8/25/2020	DATE FINISHED: 8/25/2020	FIELD ENGINEER: B. Weiserbs
DRILLER: T. Whitehead	NORTH: 610971.458	EAST: 1461854.767
TOP OF CASING ELEVATION: 703.64'	GWL DATE/TIME: 9/14/2020	GWL DEPTH: 22.78' btoc
DRILLING METHOD: 4.25" ID Hollow Stem Auger / DPT	DRILL EQUIP: Geoprobe 7730 DT	CHECKED BY: AJW
CONTRACTOR: SM&E		

ELEVATION (FT)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	WELL CONSTRUCTION
0.0	0	HSA	MW-3 (2.5-5)	90		CL: Dark brown sandy CLAY, moist, non-plastic, organics	CL	4.3		Locking Well Cap
						CL: Reddish brown sandy CLAY, moist, saprolite, trace organics, slightly micaceous		6.1		Stick-up Well Cover
-5.0	5			90				4.9		Concrete Pad
										Grout
-10.0	10			100		SM: Dark graysilty SAND, very moist, medium sorted, sorted saprolite, diorite structure, slightly micaceous		5.5		2" PVC Casing
-15.0	15		MW-3 (15-17.5)	90			SM	3.2		Bentonite Plug
-20.0	20			60				5.1		#2 Filter Sand
-25.0	25			100				0.6		0.010 Slotted Screen
-30.0	30					Boring terminated @ 30' bgs				#2 Filter Sand

AECOM

Soil Boring and Well Installation Log
Colonial Pipeline
Huntersville-Concord Rd
Huntersville, NC
2020-L1-2248 Incident

DRAWN BY: MPS | CHECKED BY: AJW | PROJECT NO: 60639876
SHEET: DRAFT

AECOM LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO:	60639876	**BORING NO:**	MW-4	**PROJECT NAME:**	Colonial Pipeline
DATE BEGAN:	8/28/2020	**DATE FINISHED:**	8/28/2020	**FIELD ENGINEER:**	B. Weiserbs
DRILLER:	T. Whitehead	**NORTH:**	610775.065	**EAST:**	1461415.603
TOP OF CASING ELEVATION:	712.26'	**GWL DATE/TIME:**	9/14/2020	**GWL DEPTH:**	31.32' btoc
DRILLING METHOD:	4.25" ID Hollow Stem Auger / DPT	**DRILL EQUIP:**	Geoprobe 7730 DT	**CHECKED BY:**	AJW
CONTRACTOR:	SM&E				

ELEVATION (FT)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	WELL CONSTRUCTION
715.0	-5									
	0	DPT		100		CL: Dark brown sandy CLAY, moist, non-plastic, organics	CL	28.2		Locking Well Cap
710.0						CL: Light brown sandy CLAY, dry, stiff, non-plastic				Stick-up Well Cover
	5		MW-4 (5-7.5)	92				6.1		Concrete Pad
705.0								6.3		Grout
	10			40				3.3		2" PVC Casing
700.0								3.3		Bentonite Plug
	15		MW-4 (15-17.5)	75		SM: Grayish brown silty SAND, moist, loose, saprolitic structure		4.3		
695.0								4.0		
	20			66		SM: Light gray silty SAND, moist, loose, saprolitic structure. Light gray and brown and wet at 20 ft bgs.	SM	2.5		
690.0								2.		
	25			80				1.5		#2 Filter Sand
685.0										0.010 Slotted Screen
	30									
680.0										
	35	HSA								
675.0										
	40									

AECOM

Soil Boring and Well Installation Log
Colonial Pipeline
Huntersville-Concord Rd
Huntersville, NC
2020-L1-2248 Incident

DRAWN BY:	CHECKED BY:	PROJECT NO:
MPS	AJW	60639876

SHEET: DRAFT

AECOM LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO:	60639876	**BORING NO:**	MW-5	**PROJECT NAME:**	Colonial Pipeline
DATE BEGAN:	8/28/2020	**DATE FINISHED:**	8/28/2020	**FIELD ENGINEER:**	B. Weiserbs
DRILLER:	T. Whitehead	**NORTH:**	610997.941	**EAST:**	1461596.966
TOP OF CASING ELEVATION:	704.28'	**GWL DATE/TIME:**	9/14/2020	**GWL DEPTH:**	27.04' btoc
DRILLING METHOD:	4.25" ID Hollow Stem Auger / DPT	**DRILL EQUIP:**	Geoprobe 7730 DT	**CHECKED BY:**	AJW
CONTRACTOR:	SM&E				

ELEVATION (FT)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	WELL CONSTRUCTION
715.0	-5									Locking Well Cap
	0	DPT		92		CL: Dark brown sandy CLAY, moist, non-plastic, organics		3.6		Stick-up Well Cover
710.0						CL: Reddish brown sandy CLAY, dry, very stiff, non-plastic		0		Concrete Pad
	5									Grout
705.0			MW-5 (7.5-10)	100				3.6		2" PVC Casing
	10							6.6		Bentonite Plug
700.0				100			CL	4.0		
	15							2.2		
695.0				100		CL: Light brown sandy silty CLAY, moist, low to medium plasticity		3.7		
	20		MW-5 (20-22.5)					4.0		
690.0				100		SM: Brown and black silty SAND, moist, medium dense, saprolitic structure		0		#2 Filter Sand
	25							2.9		0.010 Slotted Screen
685.0				60		SM: Light gray silty SAND, moist, medium dense, saprolitic structure		4.2		
	30					DPT boring terminated @ 29.5' bgs due to refusal				
680.0		HSA					SM			
	35			100						
675.0						HSA boring terminated @ 39' bgs due to refusal.				

AECOM

Soil Boring and Well Installation Log
Colonial Pipeline
Huntersville-Concord Rd
Huntersville, NC
2020-L1-2248 Incident

DRAWN BY:	CHECKED BY:	PROJECT NO:
MPS	AJW	60639876

SHEET: DRAFT

AECOM LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO:	60639876	**BORING NO:**	MW-6	**PROJECT NAME:**	Colonial Pipeline
DATE BEGAN:	8/29/2020	**DATE FINISHED:**	8/29/2020	**FIELD ENGINEER:**	A. Wreschnig
DRILLER:	T. Whitehead	**NORTH:**	610954.120	**EAST:**	1461495.917
TOP OF CASING ELEVATION:	703.43'	**GWL DATE/TIME:**	9/14/2020	**GWL DEPTH:**	27.04' btoc
DRILLING METHOD:	4.25" ID Hollow Stem Auger / DPT	**DRILL EQUIP:**	Geoprobe 7730 DT	**CHECKED BY:**	AJW
CONTRACTOR:	SM&E				

ELEVATION (FT)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	WELL CONSTRUCTION
705.0	0	DPT	MW-6 (1-2.5)	92		SM: Brown silty SAND, moist, firm, grading to brown sandy SILT with gray mottles.	SM	3.6		Locking Well Cap
700.0	5			100		ML: Grayish brown sandy SILT, dry, mottled, saprolitic structure	ML	0 3.6 6.6		Stick-up Well Cover Concrete Pad Grout 2" PVC Casing Bentonite Plug
695.0	10			100				4.0		
690.0	15		MW-6 (15-17.5)	100		SM: Grayish brown silty SAND, dry to moist, coarse grained	SM	2.2 3.7		
685.0	20			100		ML: Grayish brown sandy SILT, wet, saprolitic structure. Partially weathered rock at 37 ft bgs.		4.0 0 2.9		#2 Filter Sand 0.010 Slotted Screen
680.0	25			60		DPT boring terminated @ 29' bgs due to refusal		4.2		
675.0	30	HSA					ML			
670.0	35									
665.0	40					HSA boring terminated @ 40' bgs due to refusal.				

AECOM

Soil Boring and Well Installation Log
Colonial Pipeline
Huntersville-Concord Rd
Huntersville, NC
2020-L1-2248 Incident

DRAWN BY:	CHECKED BY:	PROJECT NO:
MPS	AJW	60639876

SHEET: DRAFT

AECOM LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO:	60639876	**BORING NO:**	MW-7	**PROJECT NAME:**	Colonial Pipeline
DATE BEGAN:	8/30/2020	**DATE FINISHED:**	8/30/2020	**FIELD ENGINEER:**	B. Weiserbs
DRILLER:	T. Whitehead	**NORTH:**	610963.967	**EAST:**	1462042.726
TOP OF CASING ELEVATION:	709.19'	**GWL DATE/TIME:**	9/14/2020	**GWL DEPTH:**	31.77' btoc
DRILLING METHOD:	4.25" ID Hollow Stem Auger / DPT	**DRILL EQUIP:**	Geoprobe 7730 DT	**CHECKED BY:**	AJW
CONTRACTOR:	SM&E				

ELEVATION (FT)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	WELL CONSTRUCTION
715.0	-5									
	0	DPT / HSA		92		CL: Reddish orange sandy CLAY, dry, non-plastic, organics from 0 to 1 ft bgs.	SM	3.6		
710.0	5		MW-7 (5-7.5)	100		ML: Reddish brown clayey SILT, dry, soft, non-plastic. Moist at 10 ft bgs with saprolitic structure.	ML	0 3.6 6.6		
705.0	10			100				4.0		
700.0	15		MW-7 (15-17.5)	100		SM: Light gray silty SAND, moist, saprolitic structure. Wet at 20 ft bgs.	SM	2.2 3.7		
695.0	20			100				4.0		
690.0	25			60			ML	0 2.9 4.2	▼	
685.0	30					Boring terminated @ 35' bgs.				
680.0	35									

AECOM

Soil Boring and Well Installation Log
Colonial Pipeline
Huntersville-Concord Rd
Huntersville, NC
2020-L1-2248 Incident

DRAWN BY:	CHECKED BY:	PROJECT NO:
MPS	AJW	60639876

SHEET: DRAFT

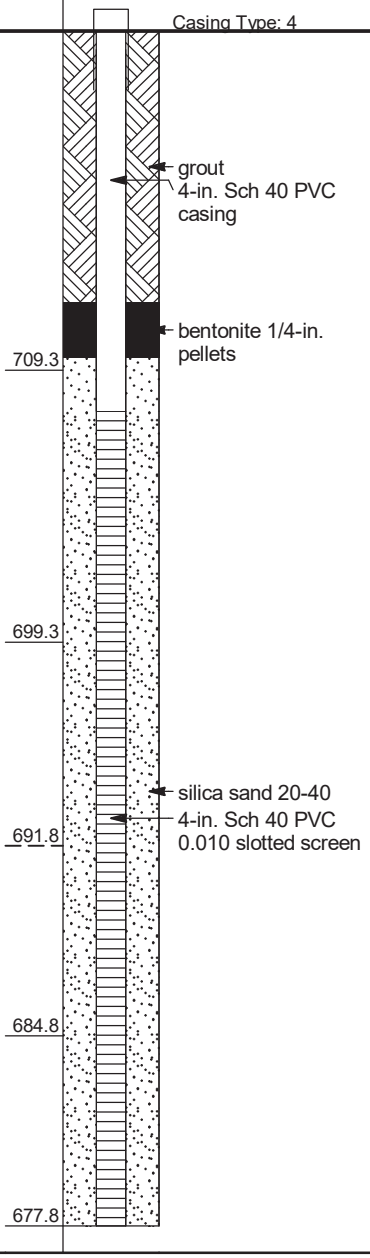
BORING NUMBER MW-08

Apex

CLIENT Colonial Pipeline
PROJECT NAME CPC Huntersville
PROJECT NUMBER CPC20126
PROJECT LOCATION Huntersville, NC
DATE STARTED 8/28/2020 **COMPLETED** 8/28/2020
GROUND ELEVATION 721.82 ft
DRILLING CONTRACTOR Walker-Hill Environmental
TOTAL DEPTH 45 ft
DRILLER Frank Harrington
GROUND WATER LEVELS:
LOGGED BY Gavin Kitchens **BOREHOLE DIAMETER** 8 in.
DURING DRILLING ---
METHOD Sonic
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (%)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS
0						
10	SC Sonic 1	100 (%)	PID = 5.3 PID = 4.6 PID = 5.4 PID = 5.5 PID = 6.8		LEAN CLAY, SILTY CLAY, (CL-ML) red 2.5YR 4/6, moist, low plasticity, little fine sand, no odor, micaceous, increasing sand content with depth	drilled along ER Line 6 at 188 m
20	SC Sonic 2	100 (%)	PID = 5.7 PID = 5.4 PID = 5.7	12.5	SILTY SAND, SILTY SAND, (SM) brown 10YR 4/3, very fine to fine grained, dry, non plastic, trace medium to coarse sand, no odor, saprolite, micaceous, phaneritic	
30	SC Sonic 3	100 (%)	PID = 15.1 PID = 6.4 PID = 7.7 PID = 5.5	22.5	SILT WITH SAND, SILT, (ML) brown 10YR 4/3, dry, non plastic, with fine sand, no odor, saprolite, micaceous, phaneritic - decreasing crystal size	22.5-25 feet bgs, soil sample, MADEP-VPH, VOC 8260
40	SC Sonic 4	100 (%)	PID = 4.5 PID = 9 PID = 6.2 PID = 6.5	30.0	SILT WITH SAND, SILT, (ML) brown olive 2.5Y 4/3, dry, non plastic, with fine sand, trace medium to coarse sand, no odor, saprolite, micaceous, phaneritic - decreasing crystal size	
	SC Sonic 5	100 (%)	PID = 4.7 PID = 5.2	37.0 44.0	POORLY GRADED SAND WITH SILT, SAND, (SP-SM) brown olive 2.5Y 4/3, very fine to fine grained, moist, non plastic, with silt, some medium to coarse sand, no odor, saprolite, micaceous, phaneritic - small crystal size	hard drilling

Bottom of borehole at 45.0 feet.



AECOM LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO: 60639876 | BORING NO: MW-9 | PROJECT NAME: Colonial Pipeline

DATE BEGAN: 8/31/2020 | DATE FINISHED: 8/31/2020 | FIELD ENGINEER: B. Weiserbs

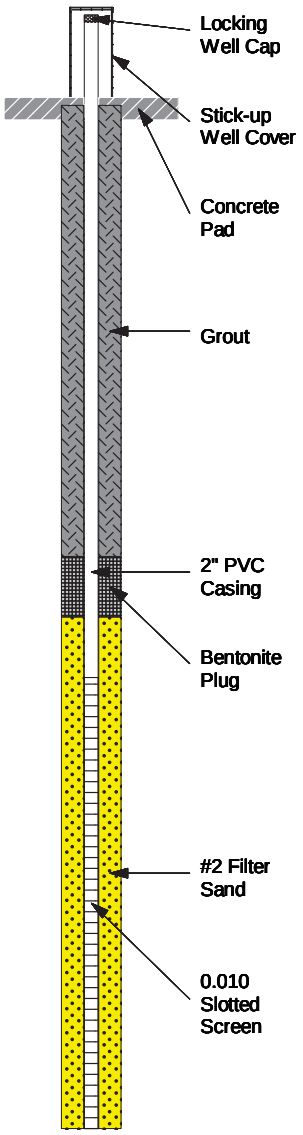
DRILLER: T. Whitehead | NORTH: 610766.024 | EAST: 1461606.198

TOP OF CASING ELEVATION: 717.15' | GWL DATE/TIME: 9/14/2020 | GWL DEPTH: 28.82' btoc

DRILLING METHOD: 4.25" ID Hollow Stem Auger / DPT | DRILL EQUIP: Geoprobe 7730 DT | CHECKED BY: AJW

CONTRACTOR: SM&E

ELEVATION (FT)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level
0.0	0	HSA		100		CL: Reddish brown sandy CLAY, dry, non-plastic, trace organics, slightly micaceous	CL	21.7	
-5.0	5			95		SC: Reddish brown clayey SAND, moist, non-plastic, slightly micaceous		3.4	
			MW-9 (7.5-10)					4.4	
-10.0	10			85		SC: Light gray clayey SAND, moist, non-plastic, slightly micaceous, saprolite, diorite structure		6.6	
-15.0	15			92			SC	5.5	
			MW-9 (20-22.5)					6.1	
-20.0	20			90				6.7	
-25.0	25			70				6.4	
-30.0	30			95		SM: Light brown silty SAND, wet, poorly sorted, slightly micaceous HSA refusal @ 34' bgs	SM	22	



AECOM

Soil Boring and Well Installation Log
Colonial Pipeline
Huntersville-Concord Rd
Huntersville, NC
2020-L1-2248 Incident

DRAWN BY: MPS | CHECKED BY: AJW | PROJECT NO: 60639876

SHEET: DRAFT

AECOM LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO: 60639876 | BORING NO: MW-10 | PROJECT NAME: Colonial Pipeline

DATE BEGAN: 8/31/2020 | DATE FINISHED: 8/31/2020 | FIELD ENGINEER: B. Weiserbs

DRILLER: T. Whitehead | NORTH: 610518.259 | EAST: 1461415.944

TOP OF CASING ELEVATION: 722.91' | GWL DATE/TIME: 9/14/2020 | GWL DEPTH: Dry

DRILLING METHOD: 4.25" ID Hollow Stem Auger / DPT | DRILL EQUIP: Geoprobe 7730 DT | CHECKED BY: AJW

CONTRACTOR: SM&E

ELEVATION (FT)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	WELL CONSTRUCTION
0.0	0	HSA				Topsoil: Organics	OH			Locking Well Cap; Stick-up Well Cover; Concrete Pad; Grout; Bentonite Plug; 2" PVC Casing; #2 Filter Sand; 0.010 Slotted Screen
				100		CL: Reddish brown sandy CLAY, dry, low-plasticity	CL	8.0		
-5.0	5					ML: Reddish brown Clayey SILT, moist, low-plasticity, slightly micaceous		1.9		
			MW-10 (7.5-10)	95				4.9		
-10.0	10					ML: Light brown clayey SILT, moist, low-plasticity, slightly micaceous	ML	9.4		
				95				8.1		
-15.0	15					ML: Light gray clayey SILT, moist, low-plasticity, slightly micaceous, saprolite, diorite structure		6.2		
				60				7.1		
-20.0	20					PWR: Light gray PWR, dry, medium fine grains, medium sorted, luminated (8mm) of dark gray, light gray and brown sand, gravel		6.3		
			MW-10 (22.5-25)	100		HSA refusal @ 25' bgs	GM	6.7		
-25.0	25							5.0		

AECOM

Soil Boring and Well Installation Log
Colonial Pipeline
Huntersville-Concord Rd
Huntersville, NC
2020-L1-2248 Incident

DRAWN BY: MPS | CHECKED BY: AJW | PROJECT NO: 60639876

SHEET: DRAFT

BORING NUMBER MW-11

Apex

CLIENT Colonial Pipeline
PROJECT NAME CPC Huntersville
PROJECT NUMBER CPC20126
PROJECT LOCATION Huntersville, NC
DATE STARTED 8/31/2020 **COMPLETED** 9/1/2020
GROUND ELEVATION 736.42 ft
DRILLING CONTRACTOR Walker-Hill Environmental
TOTAL DEPTH 50 ft
DRILLER Frank Harrington
GROUND WATER LEVELS:
LOGGED BY Bill Jones **BOREHOLE DIAMETER** 8 in.
DURING DRILLING ---
METHOD Sonic
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (%)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0	SC Sonic 1	(%)	PID = 1.6		LEAN CLAY, SILTY CLAY, (CL-ML) brown red, moist, saprolite fill		
10			PID = 1.3		7.5 SILTY SAND, SILTY SAND, (SM) brown, very fine to fine grained, dry, with clay, saprolite fill		728.9 grout; 4-in. Sch 40 PVC casing
	SC Sonic 2	(%)	PID = 1.6				bentonite pellets 1/4-in.
			PID = 1.9				
			PID = 1.8				
20			PID = 2		17.5 POORLY GRADED SAND, SAND, (SP) pale brown, very fine to fine grained, dry, saprolite fill		718.9
			PID = 2.1		20.0 SILTY SAND, SILTY SAND, (SM) pale brown, very fine to fine grained, dry, saprolite fill		716.4
30	SC Sonic 3	(%)	PID = 2				
			PID = 2.5				
			PID = 3.1				
			PID = 2.1		30.0 LEAN CLAY, SILTY CLAY, (CL-ML) brown gray, dry, saprolite fill		706.4
40	SC Sonic 4	(%)	PID = 1.9				silica sand 10-20; 4-in. Sch 40 PVC 0.010 slotted screen
			PID = 2.3		35.0 SILTY SAND, SILTY SAND, (SM) pale gray, very fine to fine grained, dry, saprolite fill		701.4
			PID = 1.8				
			PID = 2.7				
			PID = 2.8		42.5 SILTY SAND, SILTY SAND, (SM) dark gray brown, very fine to fine grained, dry, with clay, saprolite fill		693.9
50	SC Sonic 5	(%)	PID = 2.9				
			PID = 3.2				
			PID = 3.9		50.0 Bottom of borehole at 50.0 feet.		686.4

AECOM LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO: 60639876 | BORING NO: BH-1 / MW-15 | PROJECT NAME: Colonial Pipeline

DATE BEGAN: 9/2/2020 | DATE FINISHED: 9/2/2020 | FIELD ENGINEER: B. Weiserbs / S. McGuire

DRILLER: T. Whitehead / S. Gowan | NORTH: 610450.293 | EAST: 1461470.456

TOP OF CASING ELEVATION: 725.70' | GWL DATE/TIME: 9/14/2020 | GWL DEPTH: 34.79' btoc

DRILLING METHOD: 4.25" ID Hollow Stem Auger / DPT | DRILL EQUIP: Geoprobe 7730DT / CME-750X | CHECKED BY: AJW

CONTRACTOR: SM&E

ELEVATION (FT)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	WELL CONSTRUCTION
0.0	0	DPT								Locking Well Cap
				100		CL: Reddish brown silty CLAY, moist, medium density, non-plastic, trace organics	CL	29.2		Stick-up Well Cover
-5.0	5		MW-15 (5-7.5)					2.8		Concrete Pad
				95		ML: Reddish brown to light brown clayey SILT, moist, non-plastic, some mica		6.4		Grout
-10.0	10			95				4.4		
								5.3		Bentonite Plug
-15.0	15			70		ML: Gray clayey SILT, moist, non-plastic, some mica		3.0		
								3.6		2" PVC Casing
-20.0	20			80			ML	3.5		
								2.4		
-25.0	25			80		DPT Refusal @ 29' bgs		2.0		
			MW-15 (27.5-29)					2.5		
-30.0	30	HSA						2.4		#2 Filter Sand
				100		HSA Refusal @ 39' bgs				0.010 Slotted Screen
-35.0	35									

AECOM

Soil Boring and Well Installation Log
Colonial Pipeline
Huntersville-Concord Rd
Huntersville, NC
2020-L1-2248 Incident

DRAWN BY: MPS | CHECKED BY: AJW | PROJECT NO: 60639876

SHEET: DRAFT

AECOM LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO: 60639876 | BORING NO: BH-3 / MW-18 | PROJECT NAME: Colonial Pipeline

DATE BEGAN: 9/2/2020 | DATE FINISHED: 9/2/2020 | FIELD ENGINEER: B. Weiserbs / S. McGuire

DRILLER: T. Whitehead / S. Gowan | NORTH: 610817.943 | EAST: 1462185.479

TOP OF CASING ELEVATION: 729.75' | GWL DATE/TIME: 9/14/2020 | GWL DEPTH: 39.78' btoc

DRILLING METHOD: 4.25" ID Hollow Stem Auger / DPT | DRILL EQUIP: Geoprobe 7730DT / CME-750X | CHECKED BY: AJW

CONTRACTOR: SM&E

ELEVATION (FT)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	WELL CONSTRUCTION
0.0	0	DPT								Locking Well Cap
				100		CL: Reddish brown silty CLAY, dry, stiff, non-plastic, trace mica	CL	34.4		Stick-up Well Cover
-5.0	5							5.2		
				100		ML: Reddish brown to light brown clayey SILT, dry, soft, non-plastic, some mica		5.5		Concrete Pad
-10.0	10		BH-03 (10-12.5)				ML	6.0		Grout
				90				7.7		
-15.0	15							7.6		
				90		SM: Gray silty SAND, moist, loose, non-plastic, fine grained sand, well sorted, saprolitic, some mica, wet @ 30' bgs		6.3		Bentonite Plug
-20.0	20							6.8		
				90				5.3		2" PVC Casing
-25.0	25									
				90				2.9		
-30.0	30						SM	3.9		
				90				4.3		
-35.0	35		BH-03 (32.5-35)					3.3		#2 Filter Sand
				90				3.8		
-40.0	40	HSA				DPT Refusal @ 39' bgs				0.010 Slotted Screen
				100						
-45.0	45					Boring terminated @ 45' bgs				

AECOM

Soil Boring and Well Installation Log
Colonial Pipeline
Huntersville-Concord Rd
Huntersville, NC
2020-L1-2248 Release

DRAWN BY: MPS | CHECKED BY: AJW | PROJECT NO: 60639876

SHEET: DRAFT

AECOM LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO: 60639876 | BORING NO: BH-4 / MW-20 | PROJECT NAME: Colonial Pipeline

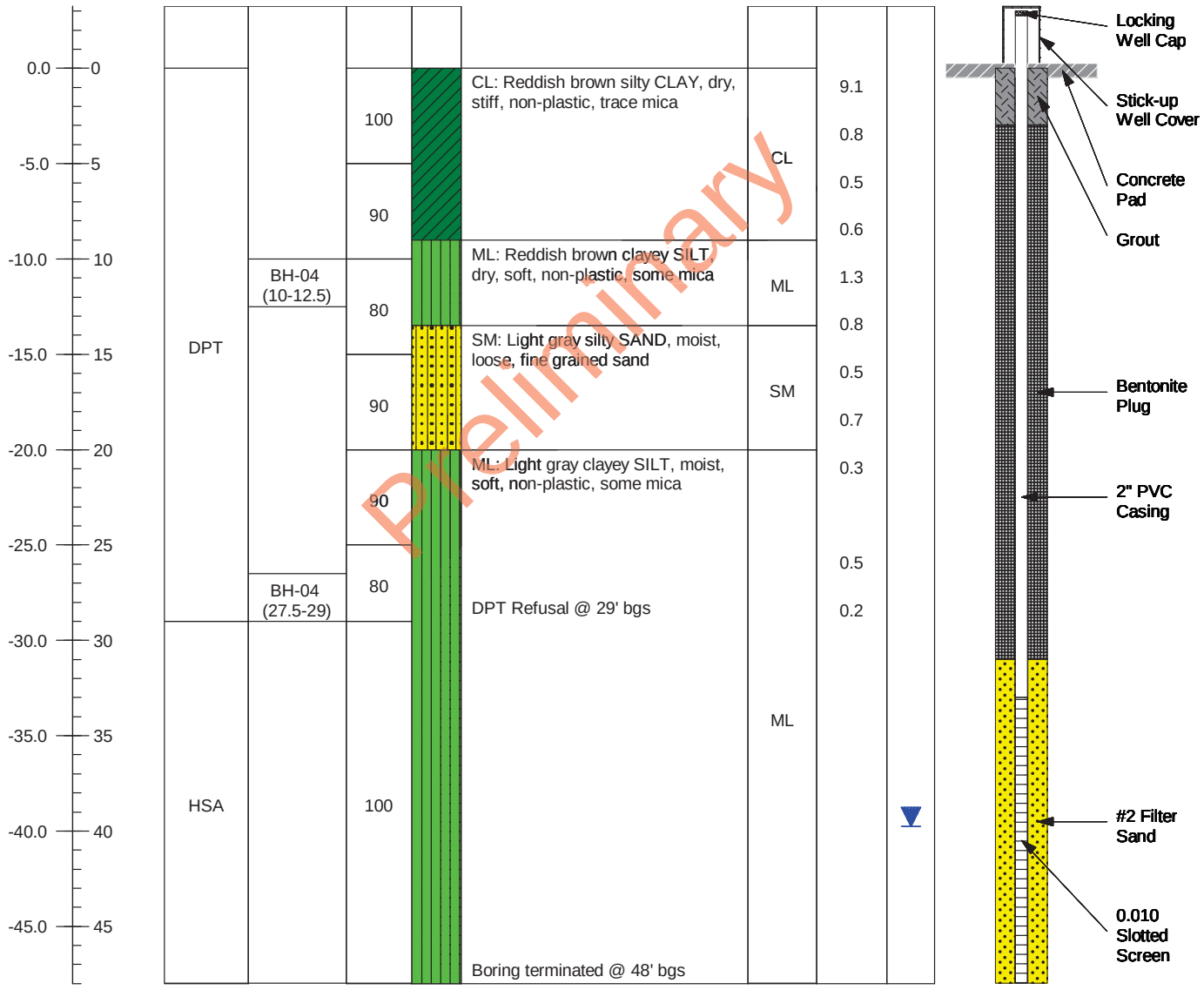
DATE BEGAN: 9/2/2020 | DATE FINISHED: 9/3/2020 | FIELD ENGINEER: B. Weiserbs / S. McGuire

DRILLER: T. Whitehead / S. Gowan | NORTH: 610895.751 | EAST: 1462288.912

TOP OF CASING ELEVATION: 729.69' | GWL DATE/TIME: 9/14/2020 | GWL DEPTH: 42.25' btoc

DRILLING METHOD: 4.25" ID Hollow Stem Auger / DPT | DRILL EQUIP: Geoprobe 7730DT / CME-750X | CHECKED BY: AJW

CONTRACTOR: SM&E



AECOM

Soil Boring and Well Installation Log
Colonial Pipeline
Huntersville-Concord Rd
Huntersville, NC
2020-L1-2248 Release

DRAWN BY: MPS | CHECKED BY: AJW | PROJECT NO: 60639876

SHEET: DRAFT

AECOM LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO: 60639876 | BORING NO: BH-5 / MW-22 | PROJECT NAME: Colonial Pipeline

DATE BEGAN: 9/2/2020 | DATE FINISHED: 9/3/2020 | FIELD ENGINEER: B. Weiserbs / S. McGuire

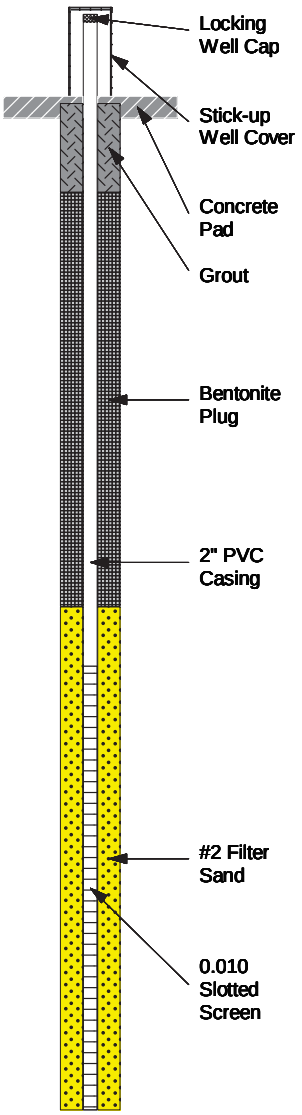
DRILLER: T. Whitehead / S. Gowan | NORTH: 610918.335 | EAST: 1462111.418

TOP OF CASING ELEVATION: 721.89' | GWL DATE/TIME: 9/14/2020 | GWL DEPTH: 34.88' btoc

DRILLING METHOD: 4.25" ID Hollow Stem Auger / DPT | DRILL EQUIP: Geoprobe 7730DT / CME-750X | CHECKED BY: AJW

CONTRACTOR: SM&E

ELEVATION (FT)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level
0.0	0	DPT		100		CL: Reddish brown silty CLAY, dry, stiff, non-plastic, trace mica	CL	72.1	
-5.0	5		BH-05 (5.75-7.5)	100		ML: Reddish brown clayey SILT, dry, soft, non-plastic, trace sand, trace mica		13.8	
-10.0	10			100		ML: Light brown sandy SILT, dry, trace clay, some mica,	ML	14.2	
-15.0	15		BH-05 (15-17.5)	100		SM: Light brown silty SAND, dry, loose, fine grained sand, trace mica		6.1	
-20.0	20			100		SM: Light brown to gray silty SAND, moist, fine to coarse with depth, saprolitic, wet @ 28' bgs	SM	11.9	
-25.0	25			100				4.5	
-30.0	30			100		DPT Refusal @ 31' bgs		9.7	
		HSA		100		HSA Refusal @ 34' bgs		3.1	
								6.2	
								1.8	
								7.3	
								4.7	
								7.2	▼



AECOM

Soil Boring and Well Installation Log
Colonial Pipeline
Huntersville-Concord Rd
Huntersville, NC
2020-L1-2248 Release

DRAWN BY: MPS | CHECKED BY: AJW | PROJECT NO: 60639876

SHEET: DRAFT

AECOM LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO: 60639876 | BORING NO: BH-6 / MW-24 | PROJECT NAME: Colonial Pipeline

DATE BEGAN: 9/2/2020 | DATE FINISHED: 9/4/2020 | FIELD ENGINEER: B. Weiserbs / S. McGuire

DRILLER: T. Whitehead / S. Gowan | NORTH: 61918.335 | EAST: 146211.418

TOP OF CASING ELEVATION: 721.89' | GWL DATE/TIME: 9/8/2020 | GWL DEPTH: 44.36' (LNAPL) / 46.69' (GW)

DRILLING METHOD: 4.25" ID Hollow Stem Auger / DPT | DRILL EQUIP: Geoprobe 7730DT / CME-750X | CHECKED BY: AJW

CONTRACTOR: SM&E

ELEVATION (FT)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	WELL CONSTRUCTION
0.0	0	DPT		100		CL: Reddish brown silty CLAY, dry, stiff, trace mica	CL	45.1		Locking Well Cap
				100				14.5		Stick-up Well Cover
-5.0	5							10.4		
				100				10.6		Concrete Pad
-10.0	10					ML: Reddish brown clayey SILT, dry, soft, non-plastic, trace organics	ML	13.8		Grout
				100				13.2		
-15.0	15							12.6		
				100				12.1		
-20.0	20						SM			Bentonite Plug
			BH-06 (22.5-25)	100		SM: Light brown to gray silty SAND, dry, fine grained sand, trace mica		12.3		
-25.0	25							15.1		
				100		ML: Light brown sandy SILT, dry to moist, loose, fine grained sand, some mica, dioritic	ML	9.1		2" PVC Casing
-30.0	30							11.6		
			BH-06 (32.5-35)	100		DPT Refusal @ 34' bgs		13.9		
-35.0	35							16.4		
				100		SM: Light brown to gray silty SAND, moist, fine to coarse with depth, some mica, dioritic		13.2		
-40.0	40	HSA					SM			
-45.0	45			100						#2 Filter Sand
										0.010 Slotted Screen
-50.0	50					Boring terminated @ 54' bgs				

AECOM

Soil Boring and Well Installation Log
Colonial Pipeline
Huntersville-Concord Rd
Huntersville, NC
2020-L1-2248 Release

DRAWN BY: MPS | CHECKED BY: AJW | PROJECT NO: 60639876

SHEET: DRAFT

AECOM LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO: 60639876 | BORING NO: BH-7 / MW-25 | PROJECT NAME: Colonial Pipeline

DATE BEGAN: 9/4/2020 | DATE FINISHED: 9/4/2020 | FIELD ENGINEER: B. Weiserbs / S. McGuire

DRILLER: T. Whitehead / S. Gowan | NORTH: 610724.207 | EAST: 1462220.540

TOP OF CASING ELEVATION: 734.04' | GWL DATE/TIME: 9/14/2020 | GWL DEPTH: 43.52' btoc

DRILLING METHOD: 4.25" ID Hollow Stem Auger / DPT | DRILL EQUIP: Geoprobe 7730DT / CME-750X | CHECKED BY: AJW

CONTRACTOR: SM&E

ELEVATION (FT)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	WELL CONSTRUCTION
0.0	0	DPT								Locking Well Cap
			BH-07 (2.5-5)	100		CL: Reddish brown silty CLAY, dry, stiff, trace mica	CL	44.9		Stick-up Well Cover
-5.0	5							16.1		
				90		ML: Reddish brown to light brown clayey SILT, dry, soft, non-plastic	ML	3.5		Concrete Pad
-10.0	10							13		Grout
				60		SM: Light brown to gray silty SAND, dry, very loose, very fine to fine grained sand, trace mica		1.2		Bentonite Plug
-15.0	15							12.1		
				70				4.7		
-20.0	20							6.9		
				80				6.1		
-25.0	25							6.8		
				80		SM: Light brown to gray silty SAND, dry, very loose, very fine to fine grained sand, trace mica, dioritic structure, wet @ 30' bgs		9.1		
-30.0	30		BH-07 (30-32.5)					8.1		2" PVC Casing
				85			SM	10.4		
-35.0	35							8.2		
				80		DPT Refusal @ 38' bgs		9.2		
-40.0	40	HSA								#2 Filter Sand
-45.0	45									
				100						0.010 Slotted Screen
-50.0	50									
-55.0	55					Boring terminated @ 57' bgs				

AECOM

Soil Boring and Well Installation Log
Colonial Pipeline
Huntersville-Concord Rd
Huntersville, NC
2020-L1-2248 Release

DRAWN BY: MPS | CHECKED BY: AJW | PROJECT NO: 60639876

SHEET: DRAFT

AECOM LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO: 60639876 | BORING NO: BH-8 / MW-26 | PROJECT NAME: Colonial Pipeline

DATE BEGAN: 9/4/2020 | DATE FINISHED: 9/4/2020 | FIELD ENGINEER: B. Weiserbs / S. McGuire

DRILLER: T. Whitehead / S. Gowan | NORTH: 610924.172 | EAST: 1462017.515

TOP OF CASING ELEVATION: 717.71' | GWL DATE/TIME: 9/14/2020 | GWL DEPTH: 31.19' (LNAPL) / 33.25' (GW)

DRILLING METHOD: 4.25" ID Hollow Stem Auger / DPT | DRILL EQUIP: Geoprobe 7730DT / CME-750X | CHECKED BY: AJW

CONTRACTOR: SM&E

ELEVATION (FT)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	WELL CONSTRUCTION
0.0	0	DPT		100		CL: Reddish brown silty CLAY, dry, stiff, trace mica, trace organics	CL	0.7		Locking Well Cap
								1.3		Stick-up Well Cover
-5.0	5			90				0.8		Concrete Pad
								0.6		Grout
-10.0	10			90		CL: Reddish brown to light brown sandy CLAY, dry, medium density, non-plastic, coarse to fine grained sand, some gravel		0.8		Bentonite Plug
-15.0	15			90		ML: Reddish brown clayey SILT, moist, medium density, non-plastic, some mica, saphrolitic	ML	1.8		
								3.1		2" PVC Casing
-20.0	20		BH-08 (20-22.5)	70		SM: Light gray silty SAND, moist, loose, fine grained sand, trace mica, dioritic structure, wet @ 27' bgs		2.2		
								4.3		
-25.0	25		BH-08 (22.5-25)					3.3		
				80			SM	0.0		#2 Filter Sand
-30.0	30			80		DPT Refusal @ 33' bgs				
-35.0	35	HSA		100		Boring terminated @ 37' bgs				0.010 Slotted Screen

AECOM

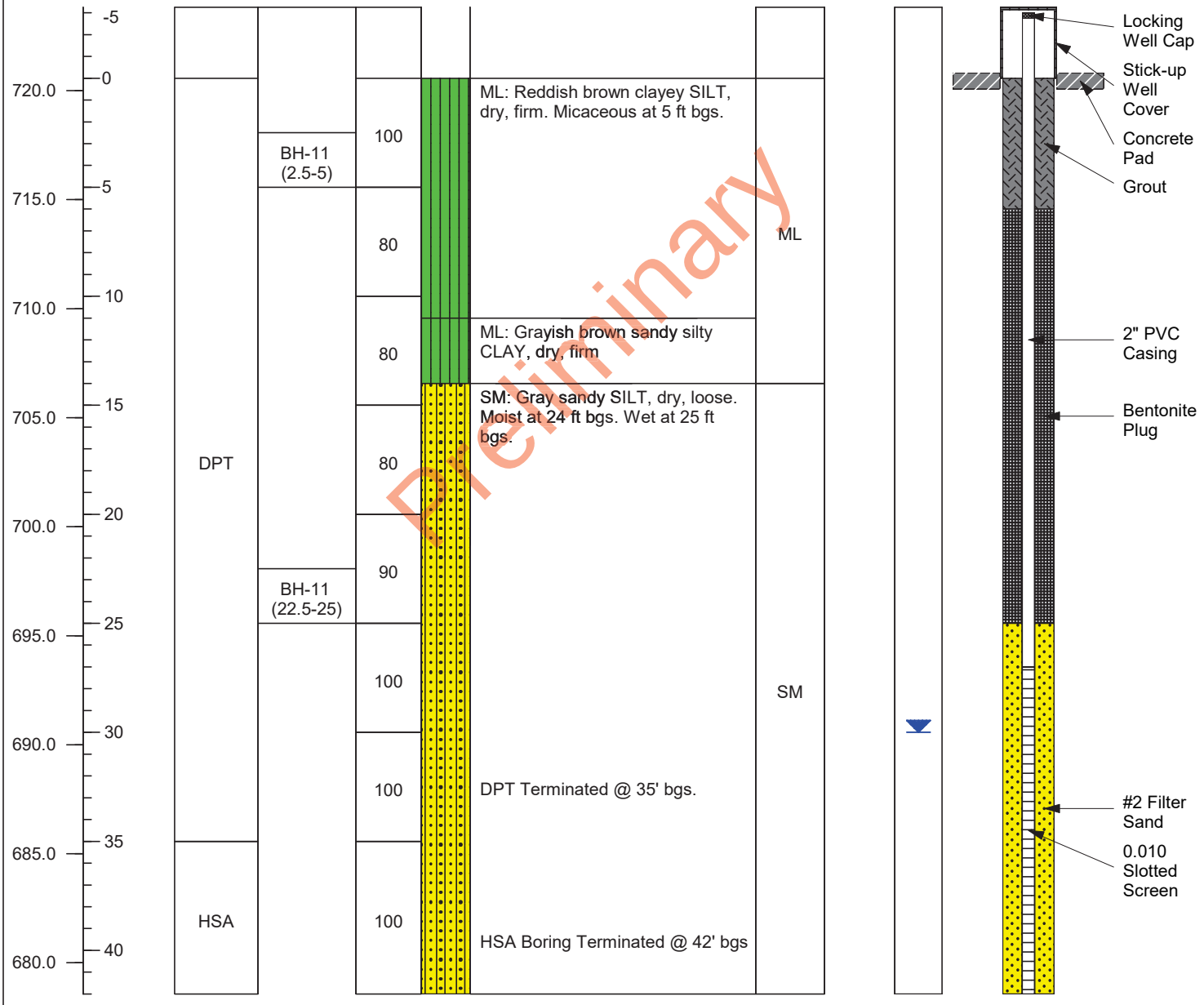
Soil Boring and Well Installation Log
Colonial Pipeline
Huntersville-Concord Rd
Huntersville, NC
2020-L1-2248 Release

DRAWN BY: MPS | CHECKED BY: AJW | PROJECT NO: 60639876

SHEET: DRAFT

AECOM LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO:	60639876	**BORING NO:**	BH-11 / MW-27	**PROJECT NAME:**	Colonial Pipeline
DATE BEGAN:	9/5/2020	**DATE FINISHED:**	9/5/2020	**FIELD ENGINEER:**	A. Wreschnig / M. Stone
DRILLER:	T. Whitehead / S. Gowan	**NORTH:**	610966.312	**EAST:**	1462065.696
TOP OF CASING ELEVATION:	713.30	**GWL DATE/TIME:**	9/5/2020	**GWL DEPTH:**	33.27' btoc
DRILLING METHOD:	4.25" ID Hollow Stem Auger / DPT	**DRILL EQUIP:**	Geoprobe 7730DT / CME-750X	**CHECKED BY:**	AJW
CONTRACTOR:	SM&E				



AECOM

Soil Boring and Well Installation Log
Colonial Pipeline
Huntersville-Concord Rd
Huntersville, NC
2020-L1-2248 Release

DRAWN BY:	CHECKED BY:	PROJECT NO:
AJW	MPS	60639876

SHEET: DRAFT

AECOM LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO:	60639876	**BORING NO:**	BH-12 / MW-28	**PROJECT NAME:**	Colonial Pipeline
DATE BEGAN:	9/5/2020	**DATE FINISHED:**	9/6/2020	**FIELD ENGINEER:**	A. Wreschnig / M. Stone
DRILLER:	T. Whitehead / S. Gowan	**NORTH:**	610216.934	**EAST:**	1461369.873
TOP OF CASING ELEVATION:	720.57	**GWL DATE/TIME:**	9/7/2020	**GWL DEPTH:**	29.37' btoc
DRILLING METHOD:	4.25" ID Hollow Stem Auger / DPT	**DRILL EQUIP:**	Geoprobe 7730DT / CME-750X	**CHECKED BY:**	AJW
CONTRACTOR:	SM&E				

ELEVATION (FT)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	WELL CONSTRUCTION
720.0	0	DPT		100		ML: Reddish brown clayey SILT, dry, hard				Well Vault, Concrete Pad, Locking Well Cap, Grout
715.0	5			100						
710.0	10			90		ML: Gray sandy SILT, dry, soft. Moist at 15 ft bgs. Saprolitic structure at 20 ft bgs. Moist to wet at 25 ft bgs.	ML			2" PVC Casing, Bentonite Plug
705.0	15			90						
700.0	20		BH-12 (17.5-20)	90						
695.0	25		BH-12 (22.5-25)	90						
690.0	30			100		SM: Gray silty SAND, moist to wet, loose DPT Terminated @ 33' bgs due to refusal	SM			#2 Filter Sand, 0.010 Slotted Screen
685.0	35	HSA		100		HSA Boring Terminated @ 40' bgs				
	40									

AECOM

Soil Boring and Well Installation Log
Colonial Pipeline
Huntersville-Concord Rd
Huntersville, NC
2020-L1-2248 Release

DRAWN BY: AJW
CHECKED BY: MPS
PROJECT NO: 60639876
SHEET: DRAFT

AECOM LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO: 60639876 | BORING NO: MW-30 | PROJECT NAME: Colonial Pipeline

DATE BEGAN: 9/7/2020 | DATE FINISHED: 9/7/2020 | FIELD ENGINEER: M. Stone

DRILLER: S. Gowan | NORTH: 610799.782 | EAST: 1461554.298

TOP OF CASING ELEVATION: 715.08' | GWL DATE/TIME: 9/14/2020 | GWL DEPTH: 30.59' btoc

DRILLING METHOD: 4.25" ID Hollow Stem Auger / DPT | DRILL EQUIP: CME-750X | CHECKED BY: AJW

CONTRACTOR: SM&E

ELEVATION (FT)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	WELL CONSTRUCTION
0.0	0					For lithological data refer to APEX boring log for MW-30				Locking Well Cap; Stick-up Well Cover; Concrete Pad; Grout
-5.0	5									
-10.0	10									Bentonite Plug
-15.0	15	HSA		100						2" PVC Casing
-20.0	20									
-25.0	25									#2 Filter Sand
-30.0	30									0.010 Slotted Screen
-35.0	35					Boring terminated @ 35' bgs				

AECOM

Soil Boring and Well Installation Log
Colonial Pipeline
Huntersville-Concord Rd
Huntersville, NC
2020-L1-2248 Release

DRAWN BY: MPS | CHECKED BY: AJW | PROJECT NO: 60639876

SHEET: DRAFT

AECOM LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO:	60639876	**BORING NO:**	BH-15 / MW-32	**PROJECT NAME:**	Colonial Pipeline
DATE BEGAN:	9/7/2020	**DATE FINISHED:**	9/6/2020	**FIELD ENGINEER:**	A. Wreschnig / M. Stone
DRILLER:	T. Whitehead / S. Gowan	**NORTH:**	611273.038	**EAST:**	1461934.811
TOP OF CASING ELEVATION:	681.00	**GWL DATE/TIME:**	9/7/2020	**GWL DEPTH:**	16.19' btoc
DRILLING METHOD:	4.25" ID Hollow Stem Auger / DPT	**DRILL EQUIP:**	Geoprobe 7730DT / CME-750X	**CHECKED BY:**	AJW
CONTRACTOR:	SM&E				

ELEVATION (FT)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	WELL CONSTRUCTION
680.0	0	DPT		80		ML: Brown sandy clayey SILT, dry, hard	ML	1.9		Locking Well Cap
	5									Stick-up Well Cover
675.0			BH-15 (7.5-10)	100		ML: Gray sandy CLAY, dry, hard, increasing sand with depth		2.1		Concrete Pad
	10							3		Grout
670.0			BH-15 (12.5-15)	100		SM: Gray silty SAND, moist, medium dense.	SM	2.5		2" PVC Casing
	15					CL: Grayish brown silty sandy CLAY, moist, medium dense. Gray at 19 ft bgs.		1.1		Bentonite Plug
665.0				100				6		#2 Filter Sand
	20	HSA				DPT Terminated @ 20' bgs due to refusal	CL	5.4		0.010 Slotted Screen
660.0				100		HSA Boring Terminated @ 25' bgs				
	25									

AECOM

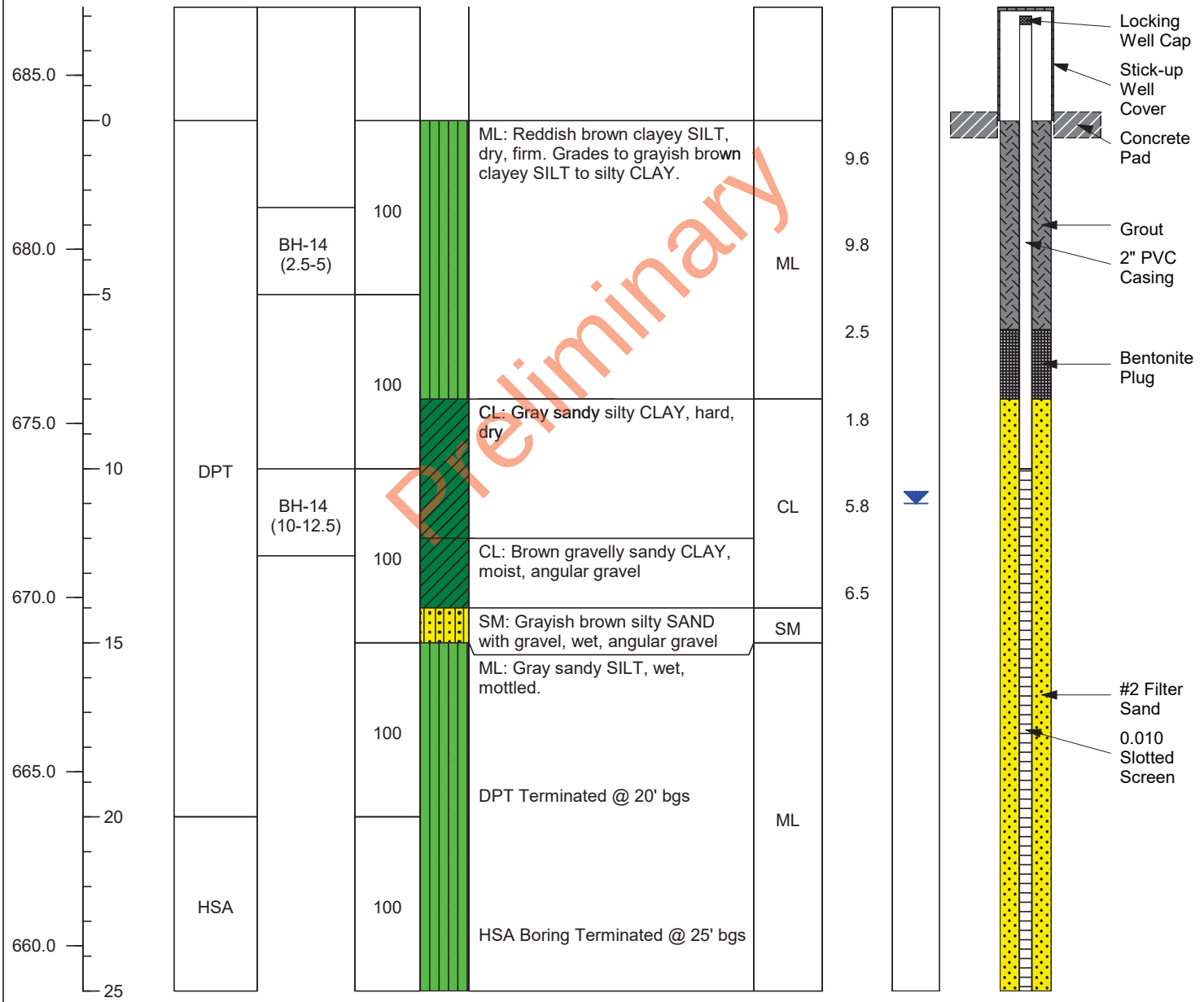
Soil Boring and Well Installation Log
Colonial Pipeline
Huntersville-Concord Rd
Huntersville, NC
2020-L1-2248 Release

DRAWN BY:	CHECKED BY:	PROJECT NO:
AJW	MPS	60639876

SHEET: DRAFT

AECOM LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO:	60639876	**BORING NO:**	BH-14 / MW-33	**PROJECT NAME:**	Colonial Pipeline
DATE BEGAN:	9/7/2020	**DATE FINISHED:**	9/6/2020	**FIELD ENGINEER:**	A. Wreschnig / M. Stone
DRILLER:	T. Whitehead / S. Gowan	**NORTH:**	611254.113	**EAST:**	1461664.564
TOP OF CASING ELEVATION:	683.70	**GWL DATE/TIME:**	9/7/2020	**GWL DEPTH:**	13.20' btoc
DRILLING METHOD:	4.25" ID Hollow Stem Auger / DPT	**DRILL EQUIP:**	Geoprobe 7730DT / CME-750X	**CHECKED BY:**	AJW
CONTRACTOR:	SM&E				



AECOM

Soil Boring and Well Installation Log
Colonial Pipeline
Huntersville-Concord Rd
Huntersville, NC
2020-L1-2248 Release

DRAWN BY:	CHECKED BY:	PROJECT NO:
AJW	MPS	60639876

SHEET: DRAFT

AECOM LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO:	60639876	**BORING NO:**	BH-13 / MW-34	**PROJECT NAME:**	Colonial Pipeline
DATE BEGAN:	9/5/2020	**DATE FINISHED:**	9/6/2020	**FIELD ENGINEER:**	A. Wreschnig / M. Stone
DRILLER:	T. Whitehead / S. Gowan	**NORTH:**	611273.038	**EAST:**	1461934.811
TOP OF CASING ELEVATION:	681.00	**GWL DATE/TIME:**	9/14/2020	**GWL DEPTH:**	10.89' btoc
DRILLING METHOD:	4.25" ID Hollow Stem Auger / DPT	**DRILL EQUIP:**	Geoprobe 7730DT / CME-750X	**CHECKED BY:**	AJW
CONTRACTOR:	SM&E				

ELEVATION (FT)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	WELL CONSTRUCTION
685.0	0	DPT	BH-13 (1-2.5)	100		ML: Reddish brown clayey SILT, firm, dry	ML	9.6		Locking Well Cap; Stick-up Well Cover; Concrete Pad; 2" PVC Casing; Grout; Bentonite Plug
680.0	5		BH-13 (5-7.5)	100		CL: Gray sandy silty CLAY, moist, firm		9.8		
675.0	10			100		ML: Light gray sandy clayey SILT, wet, firm, mottled		2.5		
670.0	15			100		SM: Gray silty SAND, wet, loose to medium dense, saprolitic, mottled	CL	1.8		
665.0	20	HSA		100		DPT Terminated @ 15' bgs HSA Boring Terminated @ 20' bgs	SM ML	5.8 6.5		#2 Filter Sand; 0.010 Slotted Screen

AECOM

Soil Boring and Well Installation Log
Colonial Pipeline
Huntersville-Concord Rd
Huntersville, NC
2020-L1-2248 Release

DRAWN BY: AJW
CHECKED BY: MPS
PROJECT NO: 60639876
SHEET: DRAFT

AECOM LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO:	60639876	**BORING NO:**	BH-16 / MW-35	**PROJECT NAME:**	Colonial Pipeline
DATE BEGAN:	9/7/2020	**DATE FINISHED:**	9/7/2020	**FIELD ENGINEER:**	A. Wreschnig / M. Stone
DRILLER:	T. Whitehead / S. Gowan	**NORTH:**	611009.321	**EAST:**	1461705.220
TOP OF CASING ELEVATION:	704.07'	**GWL DATE/TIME:**	9/7/2020	**GWL DEPTH:**	26.78' btoc
DRILLING METHOD:	4.25" ID Hollow Stem Auger / DPT	**DRILL EQUIP:**	Geoprobe 7730DT / CME-750X	**CHECKED BY:**	AJW
CONTRACTOR:	SM&E				

ELEVATION (FT)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	WELL CONSTRUCTION
710.0	0	DPT		100		ML: Reddish brown clayey SILT, dry, hard.		2.9		Locking Well Cap
										Stick-up Well Cover
705.0	5			100		ML: Grayish brown clayey SILT, firm, hard, micaceous.	ML	2.1		Concrete Pad
								3.4		Grout
			BH-16 (7.5-10)					8.8		2" PVC Casing
700.0	10			100		SM: Gray sandy SILT, loose, dry, saprolitic structure. Moist to wet at 16 ft bgs.		1.1		Bentonite Plug
695.0	15			100				2.7		
								2.5		
690.0	20		BH-16 (20-22.5)	100				2.2		
685.0	25					DPT Terminated @ 25' bgs	SM			#2 Filter Sand
		HSA								0.010 Slotted Screen
680.0	30			100						
675.0	35					HSA Boring Terminated @ 37' bgs				

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Soil Boring and Well Installation Log
Colonial Pipeline
Huntersville-Concord Rd
Huntersville, NC
2020-L1-2248 Release

DRAWN BY:	CHECKED BY:	PROJECT NO:
AJW	MPS	60639876

SHEET: DRAFT

AECOM LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO:	60639876	**BORING NO:**	BH-17 / MW-36	**PROJECT NAME:**	Colonial Pipeline
DATE BEGAN:	9/8/2020	**DATE FINISHED:**	9/8/2020	**FIELD ENGINEER:**	A. Wreschnig / M. Stone
DRILLER:	T. Whitehead / S. Gowan	**NORTH:**	610244.764	**EAST:**	1461745.145
TOP OF CASING ELEVATION:	707.51'	**GWL DATE/TIME:**		**GWL DEPTH:**	28.62' btoc
DRILLING METHOD:	4.25" ID Hollow Stem Auger / DPT	**DRILL EQUIP:**	Geoprobe 7730DT / CME-750X	**CHECKED BY:**	AJW
CONTRACTOR:	SM&E				

ELEVATION (FT)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	WELL CONSTRUCTION
710.0	-5	DPT	BH-17 (1-2.5)	100		ML: Reddish brown clayey SILT, dry, firm. Grades to grayish brown.	ML	14.5		Locking Well Cap
705.0	0									Stick-up Well Cover
	5			100				2.9		Concrete Pad
700.0										Grout
	10			100		ML: Grayish brown sandy SILT, micaceous, loose, dry		3.4		
695.0										
	15			100		ML: Grayish brown sandy SILT, micaceous, loose, moist, saprolitic structure.		3.4		
690.0										2" PVC Casing
	20			100				3.7		
685.0			BH-17 (22.5-25)							Bentonite Plug
	25			100				3.2		
680.0										
	30			100		SM: Gray silty Sand, micaceous, medium dense, wet, saprolitic structure. DPT Terminated @ 30' bgs	SM	5.7		
675.0		HSA								
	35							5.0		#2 Filter Sand
670.0				100						0.010 Slotted Screen
	40					HSA Boring Terminated @ 42' bgs		3.8		
								3.2		

AECOM

Soil Boring and Well Installation Log
Colonial Pipeline
Huntersville-Concord Rd
Huntersville, NC
2020-L1-2248 Release

DRAWN BY:	CHECKED BY:	PROJECT NO:
AJW	MPS	60639876

SHEET: DRAFT

AECOM LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO:	60639876	**BORING NO:**	BH-18 / MW-37	**PROJECT NAME:**	Colonial Pipeline
DATE BEGAN:	9/8/2020	**DATE FINISHED:**	9/8/2020	**FIELD ENGINEER:**	A. Wreschnig / M. Stone
DRILLER:	T. Whitehead / S. Gowan	**NORTH:**	610847.989	**EAST:**	1461775.311
TOP OF CASING ELEVATION:	712.01'	**GWL DATE/TIME:**		**GWL DEPTH:**	26.90' btoc
DRILLING METHOD:	4.25" ID Hollow Stem Auger / DPT	**DRILL EQUIP:**	Geoprobe 7730DT / CME-750X	**CHECKED BY:**	AJW
CONTRACTOR:	SM&E				

ELEVATION (FT)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	WELL CONSTRUCTION
715.0	-5									
	0	DPT / HSA		100		ML: Reddish brown clayey SILT, dry, hard. Grayish brown at 8 ft bgs.		0.1		Locking Well Cap
710.0								0.1		Stick-up Well Cover
	5		BH-18 (5-7.5)	100				3.9		Concrete Pad
705.0								1.1		Grout
	10			100				3.6		2" PVC Casing
700.0				100		ML: Grayish brown sandy SILT, micaceous, dry, loose. Moist at 17 ft bgs. Moist to wet at 23 ft bgs. Wet at 30 ft bgs.		3.4		Bentonite Plug
	15			100			ML	3.4		
695.0								1.6		
	20			100				4.5		
690.0			BH-18 (22.5-25)					3.0		#2 Filter Sand
	25			100				0		0.010 Slotted Screen
685.0								0		
	30			100		DPT Refusal @ 34' bgs Boring terminated @ 35' bgs				
680.0										
	35									

AECOM

Soil Boring and Well Installation Log
Colonial Pipeline
Huntersville-Concord Rd
Huntersville, NC
2020-L1-2248 Release

DRAWN BY:	CHECKED BY:	PROJECT NO:
AJW	MPS	60639876

SHEET: DRAFT

AECOM LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO:	60639876	**BORING NO:**	BH-19 / MW-40	**PROJECT NAME:**	Colonial Pipeline
DATE BEGAN:	9/8/2020	**DATE FINISHED:**	9/9/2020	**FIELD ENGINEER:**	A. Wreschnig / M. Stone
DRILLER:	T. Whitehead / S. Gowan	**NORTH:**	610244.764	**EAST:**	1461670.079
TOP OF CASING ELEVATION:	725.82'	**GWL DATE/TIME:**		**GWL DEPTH:**	33.25' btoc
DRILLING METHOD:	4.25" ID Hollow Stem Auger / DPT	**DRILL EQUIP:**	Geoprobe 7730DT / CME-750X	**CHECKED BY:**	AJW
CONTRACTOR:	SM&E				

ELEVATION (FT)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	WELL CONSTRUCTION
725.0	0	DPT		100		ML: Reddish brown clayey SILT, dry, firm	ML	0.1		Locking Well Cap
								0.1		Stick-up Well Cover
720.0	5			100		ML: Reddish brown SILT, dry, soft, micaceous. Grayish brown at 10 ft bgs. Saprolitic structure at 20 ft bgs.		3.9		Concrete Pad
								1.1		Grout
715.0	10			100				3.6		
								3.4		2" PVC Casing
710.0	15			100				3.4		Bentonite Plug
								1.6		
705.0	20		BH-19 (20-22.5)	100				4.5		
								3.0		
700.0	25		BH-19 (25-27.5)	100		ML: Dark gray SILT, moist, soft, micaceous. Wet at 30 ft bgs.		0		
								0		
695.0	30			100		DPT Refusal @ 34' bgs				#2 Filter Sand
										0.010 Slotted Screen
690.0	35	HSA		100		Boring terminated @ 37' bgs				

AECOM

Soil Boring and Well Installation Log
Colonial Pipeline
Huntersville-Concord Rd
Huntersville, NC
2020-L1-2248 Release

DRAWN BY:	CHECKED BY:	PROJECT NO:
AJW	MPS	60639876

SHEET: DRAFT

AECOM LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO:	60639876	**BORING NO:**	BH-20 / MW-41	**PROJECT NAME:**	Colonial Pipeline
DATE BEGAN:	9/8/2020	**DATE FINISHED:**	9/9/2020	**FIELD ENGINEER:**	B. Weiserbs / S. McGuire
DRILLER:	T. Whitehead / S. Gowan	**NORTH:**	610493.441	**EAST:**	1462185.803
TOP OF CASING ELEVATION:	742.82'	**GWL DATE/TIME:**		**GWL DEPTH:**	53.40' btoc
DRILLING METHOD:	4.25" ID Hollow Stem Auger / DPT	**DRILL EQUIP:**	Geoprobe 7730DT / CME-750X	**CHECKED BY:**	AJW
CONTRACTOR:	SM&E				

ELEVATION (FT)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	WELL CONSTRUCTION
745.0	-5	DPT								Locking Well Cap
	0			100		ML: Reddish brown clayey SILT, dry, hard		2.6		Stick-up Well Cover
740.0	5							2.9		
				100		ML: Grayish brown clayey SILT, dry firm. Grades to SILT at 9 ft bgs.		3.4		Concrete Pad
735.0			BH-20 (7.5-10)					3.8		
	10			100		ML: Orangish brown SILT to sandy SILT, dry, soft. Potential PWR or Bedrock at 65 ft bgs.		1.6		Grout
730.0								1.2		
	15			100				1.3		
725.0								0.2		
	20			100				0.2		
720.0								0.1		2" PVC Casing
	25			100				2.0		Bentonite Plug
715.0								2.1		
	30			50			ML	0.3		
710.0										
	35			50				0.0		
705.0										
	40		BH-20 (40-44)	50		DPT Refusal @ 44' bgs		1.5		
700.0										
	45	HSA								
695.0										
	50									
690.0										
	55			100						#2 Filter Sand
685.0										0.010 Slotted Screen
	60									
680.0										
	65									

AECOM

Soil Boring and Well Installation Log
Colonial Pipeline
Huntersville-Concord Rd
Huntersville, NC
2020-L1-2248 Release

DRAWN BY:	CHECKED BY:	PROJECT NO:
AJW	MPS	60639876

SHEET: DRAFT

BORING NUMBER RW-05

Apex

CLIENT Colonial Pipeline
PROJECT NAME CPC Huntersville
PROJECT NUMBER CPC20126
PROJECT LOCATION Huntersville, NC
DATE STARTED 8/28/2020 **COMPLETED** 8/28/2020
GROUND ELEVATION 726.93 ft
DRILLING CONTRACTOR Walker-Hill Environmental
TOTAL DEPTH 40 ft
DRILLER Frank Harrington
GROUND WATER LEVELS:
LOGGED BY Kyle Zigler **BOREHOLE DIAMETER** 8 in.
DURING DRILLING ---
METHOD Sonic
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (%)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0							Casing Type: 4
5	SC Sonic Coring Barrell 1	(%)	PID = 10.6 PID = 9.8 PID = 8.5		LEAN CLAY, SILTY LEAN CLAY, (CL) brown red, dry, low plasticity, no odor		grout 4-in. Sch 40 PVC casing bentonite 1/4-in. pellets
10			PID = 6.4		7.5 SILTY SAND, SILTY SAND, (SC-SM) brown red, very fine to fine grained, dry, with clay, residuum fill, pyrite		719.4
15	SC Sonic Coring Barrell 2	(%)	PID = 3.4 PID = 4.9		15.0 SILTY SAND, SILTY SAND, (SM) brown red, very fine to fine grained, dry, trace clay, saprolite fill, pyrite		711.9
20			PID = 3.8 PID = 7.3				
25	SC Sonic Coring Barrell 3	(%)	PID = 67.1 PID = 355.3 PID = 659.1		22.5 SILT, CLAYEY SILT, (ML) gray, saprolite fill, pyrite, mica		704.4 silica sand 20-40 4-in. Sch 40 PVC 0.010 slotted screen
30			PID = 384.5				
35	SC Sonic Coring Barrell 4	(%)	PID = 1388 PID = 1101		35.0 DIORITE, highly weathered, gray		691.9
40			PID = 1248 PID = 876.4		40.0 Bottom of borehole at 40.0 feet.		686.9

BORING NUMBER RW-06

Apex

CLIENT Colonial Pipeline
PROJECT NAME CPC Huntersville
PROJECT NUMBER CPC20126
PROJECT LOCATION Huntersville, NC
DATE STARTED 8/28/2020 **COMPLETED** 8/29/2020
GROUND ELEVATION 735.55 ft
DRILLING CONTRACTOR Walker-Hill Environmental
TOTAL DEPTH 60 ft
DRILLER Frank Harrington
GROUND WATER LEVELS:
LOGGED BY Kyle Zigler **BOREHOLE DIAMETER** 8 in.
DURING DRILLING ---
METHOD Sonic
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (%)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0							Casing Type: 4
10	SC Sonic Coring Barrell 1	(%)	PID = 1.2 PID = 1.2 PID = 2.8 PID = 1.8		LEAN CLAY, SILTY CLAY, (CL-ML) brown red, dry, low plasticity, saprolite fill		grout 4-in. Sch 40 PVC casing
20	SC Sonic Coring Barrell 2	(%)	PID = 1.2 PID = 1.1 PID = 1 PID = 1		10.0 SILTY SAND, SILTY SAND, (SM) pale gray brown, very fine to fine grained, dry, trace clay, saprolite fill, mica 15.0 SILTY SAND, SILTY SAND, (SM) gray, very fine to fine grained, trace clay, saprolite fill, mica		bentonite 1/4-in. pellets
30	SC Sonic Coring Barrell 3	(%)	PID = 1.3 PID = 1.7 PID = 1 PID = 3		30.0 SILTY SAND, SILTY SAND, (SM) dark gray, very fine to fine grained, trace clay, saprolite fill, mica		
40	SC Sonic Coring Barrell 4	(%)	PID = 20.3 PID = 98.3 PID = 248 PID = 3020		35.0 SILTY SAND, SILTY SAND, (SM) dark gray brown, very fine to fine grained, trace clay, saprolite fill, mica 39.0 SILTY SAND, SILTY SAND, (SM) pale brown, very fine to fine grained, saprolite fill, mica		silica sand 20-40 4-in. Sch 40 PVC 0.010 slotted screen
50	SC Sonic Coring Barrell 5	(%)	PID = 219.5 PID = 235.4 PID = 2130 PID = 2712		43.0 SILTY SAND, SILTY SAND, (SM) pale olive, very fine to fine grained, saprolite fill, mica, subtle foliation 50.0		
60	SC Sonic Coring Barrell 6	(%)	PID = 775 PID = 977 PID = 1430 PID = 1425		POORLY GRADED SAND WITH SILT, SAND, (SP-SM) very fine to fine grained, very dense, with silt, trace clay, saprolite fill, mica 60.0	left hole open to 50 ft bgs overnight	

725.6 720.6 705.6 700.6 696.6 692.6 685.6 675.6

Bottom of borehole at 60.0 feet.

BORING NUMBER RW-08

Apex

CLIENT Colonial Pipeline
PROJECT NAME CPC Huntersville
PROJECT NUMBER CPC20126
PROJECT LOCATION Huntersville, NC
DATE STARTED 9/12/2020 **COMPLETED** 9/12/2020
GROUND ELEVATION
DRILLING CONTRACTOR Walker-Hill Environmental
TOTAL DEPTH 34 ft
DRILLER Frank Harrington
GROUND WATER LEVELS:
LOGGED BY Andrew Street **BOREHOLE DIAMETER** 8 in.
DURING DRILLING ---
METHOD Sonic
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (%)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0					no stratigraphic logging		Casing Type: 4
5							grout 4-in. Sch 40 PVC casing
10							bentonite pellets 1/4-in.
15							
20							silica sand 10-20
25							4-in. Sch 40 PVC 0.010 slotted screen
30							
					34.0 Bottom of borehole at 34.0 feet.		

BORING NUMBER RW-09

Apex

CLIENT Colonial Pipeline
PROJECT NAME CPC Huntersville
PROJECT NUMBER CPC20126
PROJECT LOCATION Huntersville, NC
DATE STARTED 8/30/2020 **COMPLETED** 8/30/2020
GROUND ELEVATION 729.18 ft
DRILLING CONTRACTOR Walker-Hill Environmental
TOTAL DEPTH 40 ft
DRILLER Frank Harrington
GROUND WATER LEVELS:
LOGGED BY Gavin Kitchens **BOREHOLE DIAMETER** 8 in.
DURING DRILLING ---
METHOD Sonic
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (%)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0					No recovery		Casing Type: 4
5	SC Sonic Core 1	0 (%)					grout 4-in. Sch 40 PVC casing
10					10.0	719.2	bentonite pellets 1/4-in.
15	SC Sonic Core 2	(%)	PID = 57 PID = 149.2 PID = 540.2 PID = 340.2		LEAN CLAY, SILTY CLAY, (CL-ML) brown yellow 10YR 5/6, moist, low plasticity, hydrocarbon odor		
20					20.0	709.2	
25	SC Sonic 3	(%)	PID = 1127 PID = 15000 PID = 15000 PID = 15000		ELASTIC SILT, SILT, (ML) light brown yellow 10YR 6/4, dry, non plastic, some clay, some fine sand, hydrocarbon odor, saprolite fill		silica sand 20-40 4-in. Sch 40 PVC 0.010 slotted screen
30							
35	SC Sonic 4	(%)	PID = 15000 PID = 15000 PID = 15000 PID = 15000		32.5 ELASTIC SILT, SILT, (ML) gray olive 5Y 4/2, dry, non plastic, with sand, hydrocarbon odor, saprolite fill, phaneritic	696.7	
40					40.0 Bottom of borehole at 40.0 feet.	689.2	

BORING NUMBER RW-10

Apex

CLIENT Colonial Pipeline
PROJECT NAME CPC Huntersville
PROJECT NUMBER CPC20126
PROJECT LOCATION Huntersville, NC
DATE STARTED 8/31/2020 **COMPLETED** 8/31/2020
GROUND ELEVATION 731.32 ft
DRILLING CONTRACTOR Walker-Hill Environmental
TOTAL DEPTH 30 ft
DRILLER Frank Harrington
GROUND WATER LEVELS:
LOGGED BY Bill Jones **BOREHOLE DIAMETER** 8 in.
DURING DRILLING ---
METHOD Sonic
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (%)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0					no recovery		Casing Type: 4
			PID = 12.5				grout 4-in. Sch 40 PVC casing
5					5.0 SILT, CLAYEY SILT, (ML) brown, moist, medium plasticity	726.3	
			PID = 5.9				bentonite
			PID = 45.6				
10					10.0 SANDY ELASTIC SILT, SANDY SILT, (ML) brown, dry, non plastic	721.3	
			PID = 722				
			PID = 747				
15					15.0 SILTY SAND, SILTY SAND, (SM) brown, medium grained, dry, non plastic	716.3	
			PID = 744				
			PID = 223				silica sand 20-40
20							4-in. Sch 40 PVC 0.010 slotted screen
			PID = 141		22.5 SILTY SAND, SILTY SAND, (SM) light tan gray, medium grained, dry	708.8	
			PID = 167				
25							
			PID = 183		27.5 SANDY ELASTIC SILT, SANDY SILT, (ML) gray, wet, hydrocarbon odor	703.8	
30					30.0 Bottom of borehole at 30.0 feet.	701.3 liquid product in borehole	

BORING NUMBER RW-11

Apex

CLIENT Colonial Pipeline
PROJECT NAME CPC Huntersville
PROJECT NUMBER CPC20126
PROJECT LOCATION Huntersville, NC
DATE STARTED 9/2/2020 **COMPLETED** 9/5/2020
GROUND ELEVATION 726.82 ft
DRILLING CONTRACTOR Cascade
TOTAL DEPTH 39 ft
DRILLER Jimmy hall
GROUND WATER LEVELS:
LOGGED BY Bill Jones **BOREHOLE DIAMETER** 8 in.
DURING DRILLING ---
METHOD Sonic
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (%)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0							Casing Type: 4
5	SC Sonic 1	(%)	PID = 2 PID = 0.8 PID = 1.1 PID = 1.3		LEAN CLAY, SILTY CLAY, (CL-ML) red, medium plasticity	originally identified as RW-11	grout 4-in. Sch 40 PVC casing bentonite 1/4-in. pellets
10							
15	SC Sonic 2	(%)	PID = 1.4 PID = 3.2 PID = 1.9				
17.5							709.3
20			PID = 9.6		LEAN CLAY, SILTY CLAY, (CL-ML) brown, low plasticity		
22.5							704.3
25	SC Sonic 3	(%)	PID = 177 PID = 286 PID = 175		LEAN CLAY, SILTY CLAY, (CL-ML) gray, low plasticity, saprolite fill		silica sand 8-30 4-in. Sch 40 PVC 0.010 slotted screen
30			PID = 1994				
32.5	SC Sonic 4	(%)					694.3
35					DIORITE, moderately weathered, [Quartz Diorite]		
39.0							687.8
					Bottom of borehole at 39.0 feet.		

BORING NUMBER RW-12

Apex

CLIENT Colonial Pipeline
PROJECT NAME CPC Huntersville
PROJECT NUMBER CPC20126
PROJECT LOCATION Huntersville, NC
DATE STARTED 9/3/2020 **COMPLETED** 9/3/2020
GROUND ELEVATION 724.41 ft
DRILLING CONTRACTOR Cascade
TOTAL DEPTH 35 ft
DRILLER Jimmy Hall
GROUND WATER LEVELS:
LOGGED BY Kyle Zigler **BOREHOLE DIAMETER** 8 in.
DURING DRILLING ---
METHOD Sonic
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (%)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0							Casing Type: 4
5	SC Sonic 1	(%)	PID = 1.4 PID = 1 PID = 0.6		LEAN CLAY, SILTY CLAY, (CL-ML) brown red, moist, low plasticity, saprolite fill		grout 4-in. Sch 40 PVC casing
7.5							716.9
10	SC Sonic 2	(%)	PID = 5.6 PID = 4.3		SILT, CLAYEY SILT, (ML) brown red, dry, saprolite fill		bentonite
12.5							711.9
15			PID = 6.7 PID = 4.8		SILT, CLAYEY SILT, (ML) pale brown red, dry, trace sand, saprolite fill		
20	SC Sonic 3	(%)	PID = 67.2 PID = 258.9 PID = 1552 PID = 215.8		SILT WITH SAND, SILT, (ML) gray, dry, with sand, saprolite fill		704.4 silica sand 8-30 4-in. Sch 40 PVC 0.010 slotted screen
20.0							
25							
30	SC Sonic 4	(%)	PID = 1436 PID = 1598 PID = 1710		DIORITE, highly weathered, [Quartz Diorite]		691.9
32.5							
35							
			PID = 8				686.4
38.0							

Bottom of borehole at 35.0 feet.

BORING NUMBER RW-13

Apex

CLIENT Colonial Pipeline
PROJECT NAME CPC Huntersville
PROJECT NUMBER CPC20126
PROJECT LOCATION Huntersville, NC
DATE STARTED 9/3/2020 **COMPLETED** 9/4/2020
GROUND ELEVATION 729.24 ft
DRILLING CONTRACTOR Cascade
TOTAL DEPTH 35 ft
DRILLER Jimmy Hall
GROUND WATER LEVELS:
LOGGED BY Kyle Zigler **BOREHOLE DIAMETER** 8 in.
DURING DRILLING ---
METHOD Sonic
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (%)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0							Casing Type: 4
5	SC Sonic 1	(%)	PID = 136.5 PID = 30.3		LEAN CLAY, SILTY CLAY, (CL) brown red, low plasticity, saprolite fill		grout 4-in. Sch 40 PVC casing
					5.0	rock fragments	724.2
			PID = 244		SILTY SAND, SILTY SAND, (SM) brown red, very fine to fine grained, trace clay, saprolite fill		bentonite
10	SC Sonic 2	(%)	PID = 289.5 PID = 779.2				
15			PID = 1021 PID = 1248				
20	SC Sonic 3	(%)	PID = 18.9				silica sand 8-30
			PID = 15.1		24.0		4-in. Sch 40 PVC 0.010 slotted screen
25			PID = 18.9		DIORITE, moderately weathered, [Quartz Diorite]		705.2
30			PID = 1.4				
35					35.0		694.2
					Bottom of borehole at 35.0 feet.		

BORING NUMBER RW-14

Apex

CLIENT Colonial Pipeline
PROJECT NAME CPC Huntersville
PROJECT NUMBER CPC20126
PROJECT LOCATION Huntersville, NC
DATE STARTED 9/4/2020 **COMPLETED** 9/4/2020
GROUND ELEVATION 728.18 ft
DRILLING CONTRACTOR
TOTAL DEPTH 37 ft
DRILLER
GROUND WATER LEVELS:
LOGGED BY Bill Jones **BOREHOLE DIAMETER** 8 in.
DURING DRILLING ---
METHOD Sonic
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (%)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0					No stratigraphic logging due ot presence of saturated soil and LNAPL		Casing Type: 4
5	SC Sonic 1	(%)					grout 4-in. Sch 40 PVC casing
10							bentonite 1/4-in. pellets
15	SC Sonic 2	(%)					
20							
25	SC Sonic 3	(%)					silica sand 20-40 4-in. Sch 40 PVC 0.010 slotted screen
30							
35	SC Sonic 4	(%)					
					37.0	691.2	

Bottom of borehole at 37.0 feet.

BORING NUMBER RW-15

Apex

CLIENT Colonial Pipeline
PROJECT NAME CPC Huntersville
PROJECT NUMBER CPC20126
PROJECT LOCATION Huntersville, NC
DATE STARTED 9/4/2020 **COMPLETED** 9/4/2020
GROUND ELEVATION 721.01 ft
DRILLING CONTRACTOR Cascade
TOTAL DEPTH 44 ft
DRILLER Jimmy Hall
GROUND WATER LEVELS:
LOGGED BY Calvin Mentzer **BOREHOLE DIAMETER** in.
DURING DRILLING ---
METHOD Sonic
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (%)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0							Casing Type: 4
5	SC Sonic 1	(%)	PID = 46.3 PID = 32.5		LEAN CLAY, SILTY CLAY, (CL-ML) brown red, low plasticity		
			PID = 27		5.0 SILT, CLAYEY SILT, (ML) light brown, low plasticity, saprolite fill		716.0 4-in. Sch 40 PVC casing
10	SC Sonic 2	(%)	PID = 39.3 PID = 118.6				grout bentonite 1/4-in. pellets
15			PID = 885.5 PID = 986.1		17.5 SILT, CLAYEY SILT, (ML) light brown gray, low plasticity, hydrocarbon odor, saprolite fill, mica		703.5
20	SC Sonic 3	(%)	PID = 603.7 PID = 348.2				
25			PID = 862.6 PID = 265.9		27.5 SILT, CLAYEY SILT, (ML) dark gray, low plasticity, hydrocarbon odor, saprolite fill, mica		693.5 silica sand 8-30 4-in. Sch 40 PVC 0.010 slotted screen
30	SC Sonic 4	(%)	PID = 489.3 PID = 246.2				
35			PID = 864 PID = 297.1				
40	SC Sonic 5	(%)	PID = 274 PID = 40.5 PID = 716		44.0 Bottom of borehole at 44.0 feet.		677.0

BORING NUMBER RW-16

Apex

CLIENT Colonial Pipeline
PROJECT NAME CPC Huntersville
PROJECT NUMBER CPC20126
PROJECT LOCATION Huntersville, NC
DATE STARTED 9/4/2020 **COMPLETED** 9/4/2020
GROUND ELEVATION 729.5 ft
DRILLING CONTRACTOR
TOTAL DEPTH 43 ft
DRILLER
GROUND WATER LEVELS:
LOGGED BY Bill Jones **BOREHOLE DIAMETER** 8 in.
DURING DRILLING ---
METHOD Sonic
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (%)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0							Casing Type: 4
5	SC Sonic 1	(%)	PID = 9.6 PID = 1.4		LEAN CLAY, SILTY CLAY, (CL-ML) red, moist, medium plasticity	drilled along ER Line 8 at 50 m; previously identified as BO-10	grout 4-in. Sch 40 PVC casing
10			PID = 24.9 PID = 645		10.0		719.5 bentonite 1/4-in. pellets
15	SC Sonic 2	(%)	PID = 63 PID = 61		LEAN CLAY, SILTY CLAY, (CL-ML) red, moist, low plasticity, saprolite fill 12.5 LEAN CLAY, SILTY CLAY, (CL-ML) brown gray, moist, low plasticity, saprolite fill 15.0		717.0 714.5
20			PID = 67 PID = 363		LEAN CLAY WITH SAND, SANDY CLAY, (CL) brown gray, moist, low plasticity, saprolite fill		
25	SC Sonic 3	(%)	PID = 1020 PID = 791				silica sand 20-40 4-in. Sch 40 PVC 0.010 slotted screen
30			PID = 793 PID = 774		30.0		699.5
35	SC Sonic 4	(%)			No stratigraphic logging due to presence of LNAPL saturated soil		
40							
	SC Sonic 5	(%)			43.0		686.5

Bottom of borehole at 43.0 feet.

BORING NUMBER RW-19

Apex

CLIENT Colonial Pipeline
PROJECT NAME CPC Huntersville
PROJECT NUMBER CPC20126
PROJECT LOCATION Huntersville, NC
DATE STARTED 9/5/2020 **COMPLETED** 9/6/2020
GROUND ELEVATION 718.03 ft
DRILLING CONTRACTOR Cascade
TOTAL DEPTH 50 ft
DRILLER Jimmy Hall
GROUND WATER LEVELS:
LOGGED BY Calvin Mentzer **BOREHOLE DIAMETER** 8 in.
DURING DRILLING ---
METHOD Sonic
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (%)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0	SC Sonic 1	(%)	PID = 4.9 PID = 2.7 PID = 0.8		LEAN CLAY, SILTY CLAY, (CL-ML) brown red, moist, low plasticity	drilled along ER Line 6 at 126 m	Casing Type: 4 grout 4-in. Sch 40 PVC casing bentonite 1/4-in. pellets
10	SC Sonic 2	(%)	PID = 2.6 PID = 2.2 PID = 4.7 PID = 5.7		10.0 ELASTIC SILT, SILT, (ML) light brown, saprolite fill 12.5 ELASTIC SILT, SILT, (ML) light gray, hydrocarbon odor, saprolite fill		708.0 705.5
20	SC Sonic 3	(%)	PID = 83.5 PID = 1174 PID = 897 PID = 921		28.0 No stratigraphic logging due to presence of LNAPL saturated soil		690.0 silica sand 8-30 4-in. Sch 40 PVC 0.010 slotted screen
30							
40							
50					50.0 Bottom of borehole at 50.0 feet.		668.0

BORING NUMBER RW-20

Apex

CLIENT Colonial Pipeline
PROJECT NAME CPC Huntersville
PROJECT NUMBER CPC20126
PROJECT LOCATION Huntersville, NC
DATE STARTED 9/6/2020 **COMPLETED** 9/6/2020
GROUND ELEVATION 728.63 ft
DRILLING CONTRACTOR Cascade
TOTAL DEPTH 35 ft
DRILLER Jimmy Hall
GROUND WATER LEVELS:
LOGGED BY Calvin Mentzer **BOREHOLE DIAMETER** 8 in.
DURING DRILLING ---
METHOD Sonic
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (%)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0						drilled between RW-13 and -14 for additional recovery in area	Casing Type: 4
5							grout 4-in. Sch 40 PVC casing
10							bentonite 1/4-in. pellets
15							
20							silica sand 8-30
25							4-in. Sch 40 PVC 0.010 slotted screen
30							
35							

BORING NUMBER RW-21

Apex

CLIENT Colonial Pipeline
PROJECT NAME CPC Huntersville
PROJECT NUMBER CPC20126
PROJECT LOCATION Huntersville, NC
DATE STARTED 9/8/2020 **COMPLETED** 9/8/2020
GROUND ELEVATION 729.02 ft
DRILLING CONTRACTOR Cascade
TOTAL DEPTH 47 ft
DRILLER Jimmy Hall
GROUND WATER LEVELS:
LOGGED BY Calvin Mentzer **BOREHOLE DIAMETER** 8 in.
DURING DRILLING ---
METHOD Sonic
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (%)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0					No stratigraphic logging due to presence of LNAPL saturated soil		Casing Type: 4
							grout 4-in. Sch 40 PVC casing
10							bentonite 1/4-in. pellets
20							
30							silica sand 8-30 4-in. Sch 40 PVC 0.010 slotted screen
40							
					47.0 Bottom of borehole at 47.0 feet.	8-in. borehole to 45 ft bgs, 7-in. borehole to 47 ft bgs	682.0

BORING NUMBER RW-22

Apex

CLIENT Colonial Pipeline
PROJECT NAME CPC Huntersville
PROJECT NUMBER CPC20126
PROJECT LOCATION Huntersville, NC
DATE STARTED 9/8/2020 **COMPLETED** 9/8/2020
GROUND ELEVATION 727.48 ft
DRILLING CONTRACTOR Walker-Hill Environmental
TOTAL DEPTH 40 ft
DRILLER Frank Harrington
GROUND WATER LEVELS:
LOGGED BY Kyle Zigler **BOREHOLE DIAMETER** 8 in.
▽ **DURING DRILLING** 26.50 ft / Elev 700.98 ft
METHOD Sonic
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (%)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0							Casing Type: 4
5	SC Sonic 1	(%)	PID = 4.5 PID = 10.2 PID = 22.5 PID = 35.6		LEAN CLAY, SILTY CLAY, (CL-ML) brown red, low plasticity	drilled along ER Line 4 at 212 m	grout 4-in. Sch 40 PVC casing bentonite 1/4-in. pellets
10					10.0		717.5
15	SC Sonic 2	(%)	PID = 55.9 PID = 85.4 PID = 203.3 PID = 330.2		SILT, CLAYEY SILT, (ML) brown red, trace sand, saprolite fill		
20					17.5		710.0
25	SC Sonic 3	(%)	PID = 675.7 PID = 351.9 PID = 403.1 PID = 302.5		SILT, CLAYEY SILT, (ML) brown gray, trace sand, saprolite fill ▽ 27.5 SILT, CLAYEY SILT, (ML) gray, moist, trace sand, saprolite fill, minerals visible		silica sand 10-20 4-in. Sch 40 PVC 0.010 slotted screen
30							700.0
35	SC Sonic 4	(%)				soil saturated with LNAPL	
40					40.0		687.5
					Bottom of borehole at 40.0 feet.		

BORING NUMBER RW-23

Apex

CLIENT Colonial Pipeline
PROJECT NAME CPC Huntersville
PROJECT NUMBER CPC20126
PROJECT LOCATION Huntersville, NC
DATE STARTED 9/9/2020 **COMPLETED** 9/9/2020
GROUND ELEVATION 722.31 ft
DRILLING CONTRACTOR Cascade
TOTAL DEPTH 44 ft
DRILLER Jimmy Hall
GROUND WATER LEVELS:
LOGGED BY Gordon O'Toole **BOREHOLE DIAMETER** 8 in.
DURING DRILLING ---
METHOD Sonic
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (%)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0							Casing Type: 4
5	SC Sonic 1	(%)	PID = 2.7 PID = 1.6		LEAN CLAY, SILTY CLAY, (CL-ML) brown red		
					6.0		716.3
			PID = 1		SILT, CLAYEY SILT, (ML) light brown		grout 4-in. Sch 40 PVC casing
10			PID = 1.6				bentonite chips
15	SC Sonic 2	(%)					
			PID = 3.8				704.3
					18.0		
20	SC Sonic 3	(%)	PID = 7.6		POORLY GRADED SAND WITH SILT, SILTY SAND, (SM) gray, very fine to fine grained, saprolite fill		701.3
					21.0		
25			PID = 16.7		POORLY GRADED SAND WITH SILT, SILTY SAND, (SM) olive, very fine to fine grained, moist, saprolite fill		
			PID = 46.2				694.3
					28.0		silica sand 8-30 4-in. Sch 40 PVC 0.010 slotted screen
30			PID = 1362		SILT, CLAYEY SILT, (ML) olive, moist, saprolite fill		
			PID = 1216				690.3
					32.0		
35	SC Sonic 4	(%)	PID = 258 PID = 1053		SILT, CLAYEY SILT, (ML) gray, moist, with sand, saprolite fill		688.3
					34.0		
			PID = 1124		DIORITE, [Quartz diorite]		
			PID = 824				684.3
40					38.0		
					44.0		678.3
					Bottom of borehole at 44.0 feet.		

BORING NUMBER RW-24

Apex

CLIENT Colonial Pipeline
PROJECT NAME CPC Huntersville
PROJECT NUMBER CPC20126
PROJECT LOCATION Huntersville, NC
DATE STARTED 9/9/2020 **COMPLETED** 9/9/2020
GROUND ELEVATION 731.82 ft
DRILLING CONTRACTOR Walker-Hill Environmental
TOTAL DEPTH 43 ft
DRILLER Frank Harrington
GROUND WATER LEVELS:
LOGGED BY Kyle Zigler **BOREHOLE DIAMETER** 8 in.
▽ **DURING DRILLING** 35.00 ft / Elev 696.82 ft
METHOD Sonic
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (%)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0							Casing Type: 4
5	SC Sonic 1	(%)	PID = 2 PID = 1.4 PID = 0.3		LEAN CLAY, SILTY CLAY, (CL-ML) brown red, saprolite fill	drilled along ER Line 4 at 242 m	grout 4-in. Sch 40 PVC casing
10			PID = 2.1		7.5 SILT, CLAYEY SILT, (ML) brown, saprolite fill, mica, pyrite		724.3 bentonite pellets 1/4-in.
15	SC Sonic 2	(%)	PID = 2 PID = 2.1 PID = 2.8				
20			PID = 3.6				
25	SC Sonic 3	(%)	PID = 9.8 PID = 12.6 PID = 2.4		25.0 SILT, CLAYEY SILT, (ML) gray, saprolite fill, quartz, mica, pyrite		706.8 silica sand 10-20 4-in. Sch 40 PVC 0.010 slotted screen
30			PID = 13				
35	SC Sonic 4	(%)	PID = 318.6 PID = 554.3		32.5 SILT, CLAYEY, (ML) gray, trace sand, saprolite fill, quartz, mica, pyrite ▽		699.3
40			PID = 635.1 PID = 62.6		40.0 No stratigraphic logging due to elevated benzene vapor in soil		691.8
					43.0 Bottom of borehole at 43.0 feet.		688.8

BORING NUMBER RW-25

Apex

CLIENT Colonial Pipeline
PROJECT NAME CPC Huntersville
PROJECT NUMBER CPC20126
PROJECT LOCATION Huntersville, NC
DATE STARTED 9/9/2020 **COMPLETED** 9/10/2020
GROUND ELEVATION 721.18 ft
DRILLING CONTRACTOR Cascade
TOTAL DEPTH 52 ft
DRILLER Jimmy Hall
GROUND WATER LEVELS:
LOGGED BY Gordon O'Toole **BOREHOLE DIAMETER** 8 in.
DURING DRILLING ---
METHOD Sonic
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (%)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0	SC Sonic 1	(%)			No stratigraphic logging due to presence of LNAPL saturated soil		Casing Type: 4
10	SC Sonic 2	(%)					grout 4-in. Sch 40 PVC casing bentonite pellets 1/4-in.
20	SC Sonic 3	(%)					
30	SC Sonic 4	(%)					silica sand 8-30 4-in. Sch 40 PVC 0.010 slotted screen
40	SC Sonic 5	(%)					
50	SC Sonic 6	(%)					
	SC Sonic 7	(%)			52.0 Bottom of borehole at 52.0 feet.		669.2

BORING NUMBER RW-28

Apex

CLIENT Colonial Pipeline
PROJECT NAME CPC Huntersville
PROJECT NUMBER CPC20126
PROJECT LOCATION Huntersville, NC
DATE STARTED 9/10/2020 **COMPLETED** 9/10/2020
GROUND ELEVATION 730.16 ft
DRILLING CONTRACTOR Walker-Hill Environmental
TOTAL DEPTH 50 ft
DRILLER Frank Harrington
GROUND WATER LEVELS:
LOGGED BY Kyle Zigler **BOREHOLE DIAMETER** 8 in.
▽ **DURING DRILLING** 30.00 ft / Elev 700.16 ft
METHOD Sonic
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (%)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0							Casing Type: 4
10	SC Sonic 1	(%)	PID = 0 PID = 0 PID = 0 PID = 0		LEAN CLAY, SILTY CLAY, (CL-ML) brown red, saprolite fill	drilled along ER Line 7 at 176 m	grout 4-in. Sch 40 PVC casing
20	SC Sonic 2	(%)	PID = 0 PID = 0 PID = 0 PID = 0		7.5 SILT, CLAYEY SILT, (ML) brown red, saprolite fill		722.7 bentonite pellets 1/4-in.
30	SC Sonic 3	(%)	PID = 0 PID = 0 PID = 0 PID = 0		12.5 SILT, CLAYEY SILT, (ML) pale brown red, saprolite fill		717.7
40	SC Sonic 4	(%)	PID = 0 PID = 0 PID = 0 PID = 0		22.5 SILT, CLAYEY SILT, (ML) gray, moist, saprolite fill		707.7
50	SC Sonic 5	(%)	PID = 5.4 PID = 605.3		30.0 ▽ SILT, CLAYEY SILT, (ML) gray, wet, saprolite fill		700.2 silica sand 10-20 4-in. Sch 40 PVC 0.010 slotted screen
					40.0 POORLY GRADED SAND WITH SILT, SILTY SAND, (SM) gray, very fine to fine grained, wet, with clay, some gravel, hydrocarbon odor, saprolite fill	LNAPL on tooling, transmissive zone encountered at 42 ft bgs	690.2
					47.5 SILT WITH SAND, CLAYEY SILT, (ML) gray, wet, with sand, saprolite fill		682.7
					50.0 Bottom of borehole at 50.0 feet.		680.2

Table 1
Summary of Groundwater Elevation Data

2020-L1-2448
Colonial Pipeline Company
Huntersville, North Carolina

Well ID	Top of Casing Elevation[1]	Date	Depth to LNAPL (ft btoc)	Depth to Groundwater (ft btoc)	Apparent LNAPL Thickness	Groundwater Elevation[2] (ft btoc)
MW-01	709.60	9/14/2020	ND	28.20	N/A	681.40
MW-02	710.96	9/14/2020	ND	29.57	N/A	681.39
MW-03	703.64	9/14/2020	ND	22.78	N/A	680.86
MW-04	712.05	9/14/2020	ND	31.32	N/A	680.73
MW-05	705.61	9/14/2020	ND	27.04	N/A	678.57
MW-06	703.81	9/14/2020	ND	23.56	N/A	680.25
MW-07	709.46	9/14/2020	ND	29.36	N/A	680.10
MW-08	724.93	9/14/2020	ND	31.77	N/A	693.16
MW-09	709.46	9/14/2020	ND	28.82	N/A	680.64
MW-10	721.52	9/14/2020	ND	Dry	N/A	Dry
MW-11	739.65	9/14/2020	ND	45.24	N/A	694.41
MW-12	718.27	9/14/2020	ND	33.77	N/A	684.50
MW-13	736.29	9/14/2020	ND	41.77	N/A	694.52
MW-14	724.88	9/14/2020	ND	31.21	N/A	693.67
MW-15	725.70	9/14/2020	ND	34.79	N/A	690.91
MW-16	725.49	9/14/2020	ND	26.02	N/A	699.47
MW-17	727.50	9/14/2020	ND	31.32	N/A	696.18
MW-18	729.75	9/14/2020	ND	39.78	N/A	689.97
MW-19	726.29	9/14/2020	ND	13.45	N/A	712.84
MW-20	729.69	9/14/2020	ND	42.25	N/A	687.44
MW-21	724.97	9/14/2020	ND	24.99	N/A	699.98
MW-22	721.89	9/14/2020	ND	34.88	N/A	687.01
MW-23	724.32	9/14/2020	ND	30.06	N/A	694.26
MW-24	737.63	9/14/2020	44.36	46.69	2.06	692.42
MW-25	734.04	9/14/2020	ND	43.52	N/A	690.52
MW-26	717.71	9/14/2020	31.19	33.25	2.33	686.14
MW-27	716.19	9/14/2020	ND	33.27	N/A	682.92
MW-28	720.45	9/14/2020	ND	29.37	N/A	691.08
MW-29	718.73	9/14/2020	ND	29.71	N/A	689.02
MW-30	715.08	9/14/2020	ND	30.59	N/A	684.49
MW-31	721.45	9/14/2020	ND	26.39	N/A	695.06
MW-32	691.78	9/14/2020	ND	16.19	N/A	675.59
MW-33	686.70	9/14/2020	ND	13.20	N/A	673.50
MW-34	683.89	9/14/2020	ND	10.89	N/A	673.00
MW-35	707.14	9/14/2020	ND	26.78	N/A	680.36
MW-36	710.54	9/14/2020	ND	28.62	N/A	681.92

Table 1
Summary of Groundwater Elevation Data

2020-L1-2448
Colonial Pipeline Company
Huntersville, North Carolina

Well ID	Top of Casing Elevation[1]	Date	Depth to LNAPL (ft btoc)	Depth to Groundwater (ft btoc)	Apparent LNAPL Thickness	Groundwater Elevation[2] (ft btoc)
MW-37	714.94	9/14/2020	ND	26.90	N/A	688.04
MW-38	726.74	9/14/2020	ND	37.56	N/A	689.18
MW-39	738.13	9/14/2020	ND	41.90	N/A	696.23
MW-40	728.92	9/14/2020	ND	33.25	N/A	695.67
MW-41	745.92	9/14/2020	ND	53.40	N/A	692.52
MW-42	735.71	9/14/2020	ND	41.33	N/A	694.38
MW-43	729.80	9/14/2020	ND	38.27	N/A	691.53
MW-44	726.48	9/14/2020	ND	32.40	N/A	694.08
MW-45	729.41	9/14/2020	ND	35.28	N/A	694.13
MW-46	726.73	9/14/2020	ND	31.63	N/A	695.10
MW-47	726.77	9/14/2020	ND	30.88	N/A	695.89

Notes:

LNAPL = Light Non-Aqueous Phase Liquid

ft btoc = Feet Below Top of Casing

N/A = Not Applicable

MW = Monitoring Well

ND - Not Detected

1 = Elevations surveyed in feet using the NAVD88 vertical datum.

2= Groundwater Elevation = Top of Casing - Depth to Water + (LNAPL thickness x 0.72)

Table 2
Summary of Water Supply Well Analytical Results

Colonial Pipeline Company
2020-L1-2448 Incident
Huntersville, North Carolina

						Metals	VOCs																																																													MADEP VPH		
Sample ID	Sample Date	Well Sample Plan Status	Sample Source Type	Well in Use	Units	Lead	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Diisopropyl ether	Ethylbenzene	Hexachloro-1,3-butadiene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	Xylene (Total)	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics
					µg/L	**15**	**1**	**NE**	**NE**	**0.6**	**4**	**NE**	**70**	**70**	**70**	**0.3**	**50**	**3000**	**70**	**3**	**100**	**NE**	**0.04**	**0.4**	**0.02**	**NE**	**20**	**200**	**6**	**1000**	**6**	**0.4**	**3501**	**70**	**100**	**0.6**	**NE**	**NE**	**NE**	**0.4**	**0.4**	**70**	**600**	**0.4**	**70**	**5**	**20**	**6**	**70**	**70**	**NE**	**0.2**	**0.7**	**600**	**NE**	**400**	**200**	**NE**	**3**	**2000**	**0.01**	**400**	**400**	**0.03**	**500**	**500**	**500**	**400**	**NE**	**NE**
					µg/L	**--**	**--**	**--**	**--**	**--**	**--**	**10**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**70**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**1**	**--**	**--**	**--**	**--**	**--**	**--**	**0.6**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
14108_HC_Rd	8/15/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
13926B_HC_Rd	8/16/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	8.9	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
13926A_HC_Rd	8/16/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
14226_HC_ Rd	8/16/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
13822_HC_Rd	8/16/2020	Active	Well	No	µg/L	53.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
16366_HC_Rd	8/16/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
FD1_081720	8/17/2020	N/A	N/A	N/A	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
TRIP_BLANK	8/17/2020	N/A	N/A	N/A	µg/L	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
13901_Sims_Rd	8/17/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
14024_Sims_Rd	8/17/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
FIELD_BLANK_1	8/17/2020	N/A	N/A	N/A	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
13945_AC_Rd	8/17/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
13923_AC_Rd	8/17/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
13835_AC_Rd	8/17/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
13920_Sims_Rd	8/17/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
13831_Sims_Rd	8/17/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
TRIP_BLANK	8/18/2020	N/A	N/A	N/A	µg/L	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	NA	NA	NA
TRIP_BLANK	8/18/2020	N/A	N/A	N/A	µg/L	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	NA	NA	NA
14015_AC_Rd	8/18/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
13926B_HC_Rd	8/21/2020	Active	Well	Yes	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
15120_PL_Dr	8/22/2020	Active	Well	Yes	µg/L	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	NA	NA	NA	NA	NA
15128_PL_ Dr	8/22/2020	Active	Well	Yes	µg/L	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	NA	NA	NA	NA	NA
15136_PL_ Dr	8/22/2020	Active	Well	Yes	µg/L	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	NA	NA	NA	NA	NA
15110_PL_ Dr	8/22/2020	Active	Well	Yes	µg/L	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	NA	NA	NA	NA	NA
15104_PL_Dr	8/22/2020	Active	Well	Yes	µg/L	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	NA	NA	NA	NA	NA
13736_PE_ Dr	8/22/2020	Active	Well	Yes	µg/L	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	NA	NA	NA	NA	NA
13926A_HC_Rd	8/21/2020	Active	Well	Yes	µg/L	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13937_AC_Rd	8/21/2020	Active	Well	Yes	µg/L	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<2.0	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<2.0	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	NA	<1.0	<0.5	<75	<75	<25
13822_HC_Rd	8/21/2020	Active	Well	No	µg/L	14.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip_Blank	8/21/2020	N/A	N/A	N/A	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field_Blank	8/21/2020	N/A	N/A	N/A	µg/L	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FD	8/21/2020	N/A	N/A	N/A	µg/L	10.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank	8/25/2020	N/A	N/A	N/A	µg/L	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
13831_Sims_Rd	8/25/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
14024_Sims_Rd	8/25/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
13901_Sims_Rd	8/25/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
13920_Sims_Rd	8/25/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
14226_HC_Rd	8/25/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
14015_AC_Rd	8/25/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	1.5	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
13945_AC_Rd	8/25/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
14108_HC_Rd	8/25/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
13923_AC_Rd	8/25/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
13937_AC_Rd	8/25/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
13835_AC_Rd	8/25/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
FD1	8/25/2020	N/A	N/A	N/A	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
Field Blank	8/25/2020	N/A	N/A	N/A	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	2.1	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
FD1	8/26/2020	Active	N/A	N/A	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
Field_Blank	8/26/2020	N/A	N/A	N/A	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
HOA_Lawn	8/26/2020	Active	Well	No	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<75	<75	<25
Field Blank	8/27/2020	N/A	N/A	N/A	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
Trip Blank	8/27/2020	N/A	N/A	N/A	µg/L	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
13800_HC_Rd	8/27/2020	Active	Well	No	µg/L	109	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
14037_Lawther_Rd	08/30/2020	Inactive	Well	No	µg/L	37.3	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
Trip_Blank	08/30/2020	N/A	N/A	N/A	µg/L	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	NA	NA	NA
13822_HC_RD	09/02/2020	Active	Well	No	µg/L	11.6	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
14226_HC_RD	09/02/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
13945_AC_RD	09/02/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
13926B_HC_RD	09/02/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	9.4	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
13800_HC_RD	09/02/2020	Active	Well	No	µg/L	169	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
HOA_LAWN	09/02/2020	Active	Well	No	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
13926A_HC_RD	09/02/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
14015_AC_RD	09/02/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	4.4	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
FD_09_02_20	09/02/2020	N/A	N/A	N/A	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
Field_Blank	09/02/2020	N/A	N/A	N/A	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
Trip_Blank	09/02/2020	N/A	N/A	N/A	µg/L	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	NA	NA	NA
Field_Blank	09/03/2020	N/A	N/A	N/A	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
FD-090320	09/03/2020	N/A	N/A	N/A	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
Trip_Blank	09/03/2020	N/A	N/A	N/A	µg/L	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100

Table 2
Summary of Water Supply Well Analytical Results

Colonial Pipeline Company
2020-L1-2448 Incident
Huntersville, North Carolina

						Metals	VOCs																																																													MADEP VPH		
Sample ID	Sample Date	Well Sample Plan Status	Sample Source Type	Well in Use	Units	Lead	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Diisopropyl ether	Ethylbenzene	Hexachloro-1,3-butadiene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	Xylene (Total)	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics
					µg/L	**15**	**1**	**NE**	**NE**	**0.6**	**4**	**NE**	**70**	**70**	**70**	**0.3**	**50**	**3000**	**70**	**3**	**100**	**NE**	**0.04**	**0.4**	**0.02**	**NE**	**20**	**200**	**6**	**1000**	**6**	**0.4**	**3501**	**70**	**100**	**0.6**	**NE**	**NE**	**NE**	**0.4**	**0.4**	**70**	**600**	**0.4**	**70**	**5**	**20**	**6**	**70**	**70**	**NE**	**0.2**	**0.7**	**600**	**NE**	**400**	**200**	**NE**	**3**	**2000**	**0.01**	**400**	**400**	**0.03**	**500**	**500**	**500**	**400**	**NE**	**NE**
					µg/L	--	--	--	--	--	--	**10**	--	--	--	--	--	--	--	--	--	--	--	--	--	**70**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**1**	--	--	--	--	--	--	**0.6**	--	--	--	--	--	--	--	--	--	--	--	--
13937_AC_RD	09/03/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
13920_SIMS_RD	09/03/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
14024_SIMS_RD	09/03/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
13835_AC_RD	09/03/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
13831_SIMS_RD	09/03/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
13901_SIMS_RD	09/03/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
13923_AC_RD	09/03/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
FD-090320	09/03/2020	N/A	N/A	N/A	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
Field_Blank	09/03/2020	N/A	N/A	N/A	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
Trip_Blank	09/03/2020	N/A	N/A	N/A	µg/L	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
HOA_LAWN	09/10/2020	Active	Well	No	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
FD-091020	09/10/2020	N/A	N/A	N/A	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
FIELD_BLANK	09/10/2020	N/A	N/A	N/A	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	3.3	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
TRIP_BLANK	09/10/2020	N/A	N/A	N/A	µg/L	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	NA	NA	NA
13800_HC_RD	09/10/2020	Active	Well	No	µg/L	55.2	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
13822_HC_RD	09/10/2020	Active	Well	No	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
14015_AC_RD	09/10/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
13926A_HC_RD	09/10/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
13926B_HC_RD	09/10/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.1	<0.50	<0.50	<0.50	<0.50	<0.50	<1.1	7.6	<1.1	<0.50	<0.50	<1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.1	<0.51	<2.1	<0.51	<2.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.1	<0.50	<0.50	<0.50	<1.1	NA	<1.1	<0.51	<100	<100	<100
13937_AC_RD	09/10/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
13945_AC_RD	09/10/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
FD-091120	09/11/2020	N/A	N/A	N/A	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
FIELD_BLANK	09/11/2020	N/A	N/A	N/A	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	3.1	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
TRIP_BLANK	09/11/2020	N/A	N/A	N/A	µg/L	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	NA	NA	NA
14226_HC_RD	09/11/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
14037_LAWTHER_RD	09/11/2020	Inactive	Well	No	µg/L	23.1	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
14335_HC_RD	09/11/2020		Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
13835_AC_RD	09/11/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100
13923_AC_RD	09/11/2020	Active	Well	Yes	µg/L	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<0.50	<100	<100	<100

Notes:
NA - Not Analyzed
N/A - Not Applicable
NE - Not Established
All units reported in micrograms per liter (µg/L).
NCAC 2L Standard - North Carolina 15A NCAC 2L Groundwater Standard
"<" - Indicates compound was not detected above laboratory reporting limit
Lead - analyzed by Method 6010D
VOCs - Volatile Organic Compounds analyzed by Method SM 6200B
MADEP - Massachusetts Department of Environmental Protection; as required by North Carolina Department of Environmental Quality
VPH - Volatile Petroleum Hydrocarbon

Table 3
Summary of Groundwater Analytical Data

Colonial Pipeline Company
2020-L1-2448 Incident
Huntersville, North Carolina

		Metals	VOCs																																																													MADEP VPH			
Sample ID	Sample Date	Lead	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Diisopropyl ether	Ethylbenzene	Hexachloro-1,3-butadiene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	Xylene (Total)	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
NCAC 2L Standards		**15**	**1**	**NE**	**NE**	**0.6**	**4**	**NE**	**70**	**70**	**70**	**0.3**	**50**	**3000**	**70**	**3**	**100**	**NE**	**0.04**	**0.4**	**0.02**	**NE**	**20**	**200**	**6**	**1000**	**6**	**0.4**	**3501**	**70**	**100**	**0.6**	**NE**	**NE**	**NE**	**0.4**	**0.4**	**70**	**600**	**0.4**	**70**	**5**	**20**	**6**	**70**	**70**	**NE**	**0.2**	**0.7**	**600**	**NE**	**400**	**200**	**NE**	**3**	**2000**	**0.01**	**400**	**400**	**0.03**	**500**	**500**	**500**	**400**	**NE**	**NE**	**NE**
IMAC Standards		--	--	--	--	--	--	**10**	--	--	--	--	--	--	--	--	--	--	--	--	--	**70**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**1**	--	--	--	--	--	--	**0.6**	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-12_20200902	09/02/2020	<25	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	<0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	<100	<100	<100	<100
MW-4_20200902	09/02/2020	<25	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	<0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	<100	<100	<100	<100
MW-5_20200902	09/02/2020	<25	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	<0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	<100	<100	<100	<100
MW-5_20200902DUP	09/02/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.021	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6_20200902	09/02/2020	<25	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	<0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	<100	<100	<100	<100
MW-7_20200902	09/02/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	<0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	<100	<100	<100	<100
MW-9_20200902	09/02/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	<0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	<100	<100	<100	<100
Trip Blank	09/02/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	NA	NA	NA	NA
MW-11_20200903	09/03/2020	<5	<0.5	<0.5	<0.5	2.1	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	18.3	<1	<0.5	<0.5	<1	3.7	<0.019	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	4.1	1.2	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	1	<0.5	<1	NA	1.8	0.75	<100	<100	<100	<100
Trip Blank	09/02/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	NA	NA	NA	NA
MW-8_20200903	09/03/2020	<5	<0.5	<0.5	<0.5	2.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	15.5	<1	<0.5	<0.5	<1	3.8	<0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	2.3	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	1.2	0.58	<100	<100	<100	<100
Trip Blank	09/03/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	NA	NA	NA	NA
MW-15_20200909	09/09/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	<0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	<100	<100	<100	<100
MW-18_20200909	09/09/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	<0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	<100	<100	<100	<100
MW-20_20200909	09/09/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	0.77	<1	<0.5	<0.5	<1	<0.5	<0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	<100	<100	<100	<100
MW-22_20200909	09/09/2020	<5	14.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	<0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.4	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	3.2	<100	<100	<100	<100
MW-26_20200909	09/09/2020	<5	7.7	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	1.8	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	22.6	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	0.69	<0.5	<1	NA	6.4	3.1	<100	<100	<100	114
MW-27_20200909	09/09/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	<0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	<100	<100	<100	<100
MW-33_20200909	09/09/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	<0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	<100	<100	<100	<100
MW-33_20200909DUP	09/09/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-34_20200909	09/09/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	<0.021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	<100	<100	<100	<100
Trip Blank-03	09/09/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	NA	NA	NA	NA
MW-32_20200910	09/10/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	<0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	<100	<100	<100	<100
MW-35_20200910	09/10/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	<0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	<100	<100	<100	<100
MW-36_20200910	09/10/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	<0.021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	<100	<100	<100	<100
MW-37_20200910	09/10/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	<0.021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	<100	<100	<100	<100
Trip Blank-04	09/10/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	NA	NA	NA	NA
MW-28_20200909	09/09/2020	<25	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	<0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	NA	NA	NA	NA
Trip Blank-03	09/09/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	NA	NA	NA	NA
MW-40_20200911	09/11/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	<0.021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.2	<0.5	<2	<0.5	<2	1.3	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	<100	<100	<100	<100
MW-40_20200911DUP	09/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank-05	09/11/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	NA	NA	NA	NA
MW-25_20200911	09/11/2020	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	<0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	<100	<100	<100	<100
MW-30_20200911	09/11/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	<0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	<100	<100	<100	<100
MW-41_20200911	09/11/2020	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	<0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.72	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	<100	<100	<100	<100
Trip Blank-05	09/11/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	NA	NA	NA	NA
MW-09_20200913	09/13/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	<100	<100	<100	<100
MW-29_20200913	09/13/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	2.8	<1	<0.5	<0.5	<1	<0.5	<0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	<100	<100	<100	<100
Trip Blank-06	09/13/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	NA	NA	NA	NA
MW-11_20200913	09/13/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	6.3	<1	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	1.9	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	<100	<100	<100	<100
Trip Blank-06	09/13/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	NA	NA	NA	NA
MW-45_20200915	09/15/2020	<5	2.8	<0.5	<0.5	1.4	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	20	<1	<0.5	<0.5	<1	<0.5	<0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.1	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	27.8	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	4.5	1.1	<1	NA	17.7	8.4	<100	<100	<100	154
MW-45_20200915DUP	09/15/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank-07	09/15/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	NA	NA	NA	NA
MW-42_20200915	09/15/2020	<5	1.3	<0.5	<0.5	1.9	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	23.8	<1	<0.5	<0.5	<1	<0.5	<0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.4	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	10.8	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	5.3	1.4	<1	NA	13.3	6.2	<100	<100	<100	150
Trip Blank-07	09/15/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	NA	NA	NA	NA
MW-13_20200915	09/15/2020	<5	<0.5	<0.5	<0.5	2.2	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	21.7	<1	<0.5	<0.5	<1	0.54	<0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	4.4	1.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	0.76	<0.5	<1	NA	1.8	0.92	<100	<100	<100	<100
MW-44_20200915	09/15/2020	34.6	11.2	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	18.5	<1	<0.5	<0.5	<1	<0.5	<0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	8.4	<2	<0.5	<2	<0.5	2.1	0.78	<0.5	<0.5	<0.5	<0.5	77.1	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	4.3	0.58	<1	NA	21.3	13.7	155	<100	<100	252
MW-46_20200915	09/15/2020	<5	1.6	<0.5	<0.5	2.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	26.2	<1	<0.5	<0.5	<1	0.58	<0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.1	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	17.3	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	3.7	0.83	<1	NA	15.5	6.6	<100	<100	<100	114
MW-47_20200915	09/15/2020	6.3	<0.5	<0.5	<0.5	2	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	16.5	<1	<0.5	<0.5	<1	<0.5	<0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.4	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	6.3	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	1.5	<0.5	<1	NA	5.2	2.4	<100	<100	<100	<100
Trip Blank-07	09/15/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	NA	<1	<0.5	NA	NA	NA	NA

Notes:
NA - Not Analyzed
NE - Not Established
All units reported in micrograms per liter (µg/L).
NCAC 2L Standard - North Carolina 15A NCAC 2L Groundwater Standard
"<" - Indicates compound was not detected above laboratory reporting limit
Lead - analyzed by Method 6010D
VOCs - Volatile Organic Compounds analyzed by Method SM 6200B
MADEP - Massachusetts Department of Environmental Protection; as required by North Carolina Department of Environmental Quality
VPH - Volatile Petroleum Hydrocarbon

Date: September 15, 2020

Via Email

Jeff Morrison
Colonial Pipeline Company
3925 Anderson Farm Road
Austell, Georgia 30106
JMorrison@colpipe.com

Subject: Surface Water and Sediment Sampling associated with the 2020-L1-SR2448: Incident Response, Huntersville, North Carolina

Dear Jeff:

This document provides a summary of the surface water and sediment sampling activities associated with the response to date for the 2020-L1-SR2448 Incident, Huntersville, North Carolina.

Surface Water Sampling

Surface water sampling was conducted by Environmental Planning Specialists, Inc.[1] (EPS) daily at 12 locations (SW-1 through SW-12) from August 15th through August 22, 2020 (Figure 1). The upgradient location (SW-1) is upstream of the pipeline crossing at the intersection of North Prong Clark Creek and Ramah Church Road. The downgradient locations (SW-2 through SW-12) are all located on the progression of North Prong Clark Creek, South Prong Clark Creek, Clark Creek, and Rocky River. Subsequent to the daily sampling during this period, surface water samples have been collected, and will continue to be collected weekly, starting on August 27th, 2020 at locations SW-1 through SW-7. Surface water is also being sampled at these seven locations after rain events that are 1" or greater in a 24-hour period. There have been 3 of these events thus far (September 1, September 2, and September 3, 2020). Additionally, surface water samples have been collected from a seep location (SW Seep) and a downgradient surface water location (Seep Confluence) daily on September 1, 2, and 3; with subsequent sampling occurring weekly and with rain events, at the same time as the weekly sampling conducted at locations SW-1 through SW-7.

The surface water samples are being analyzed for benzene, toluene, ethylbenzene, xylenes (collectively known as BTEX) and total petroleum hydrocarbons in the gasoline range (TPH-GRO). *All surface water samples collected to date have been non-detect for the constituents analyzed.* Surface water sample data tables, including the constituent analysis as well as field monitoring parameters, are provided in Tables 1 and 2, respectively, in Attachment I.

Sediment Sampling

Sediment sampling was conducted at 12 locations (SD-1 through SD-12) along the progression of North Prong Clark Creek, South Prong Clark Creek, Clark Creek, and Rocky River on August 16th (Figure 1). These include one location (SD-1) that is located upgradient of the pipeline crossing at the intersection of North Prong Clark Creek and Ramah Church Road. The sediment samples are being analyzed for BTEX and TPH-GRO. *All sediment samples collected to date have been non-detect for the constituents analyzed*

[1] An affiliate of the Montrose Environmental Group Company

except for one sample at SD-6, where a trace level of Toluene was detected (8.2 ug/kg, marginally above the reporting limit of 8.0 ug/kg). A sediment sample summary table is provided in Table 3 of Attachment I.

Surface water and sediment sample analysis was conducted by Pace Analytical Services[2]. The analytical reports for these samples are provided in Attachment II.

Should you have any questions or comments regarding this summary, please do not hesitate to contact me.

Sincerely,

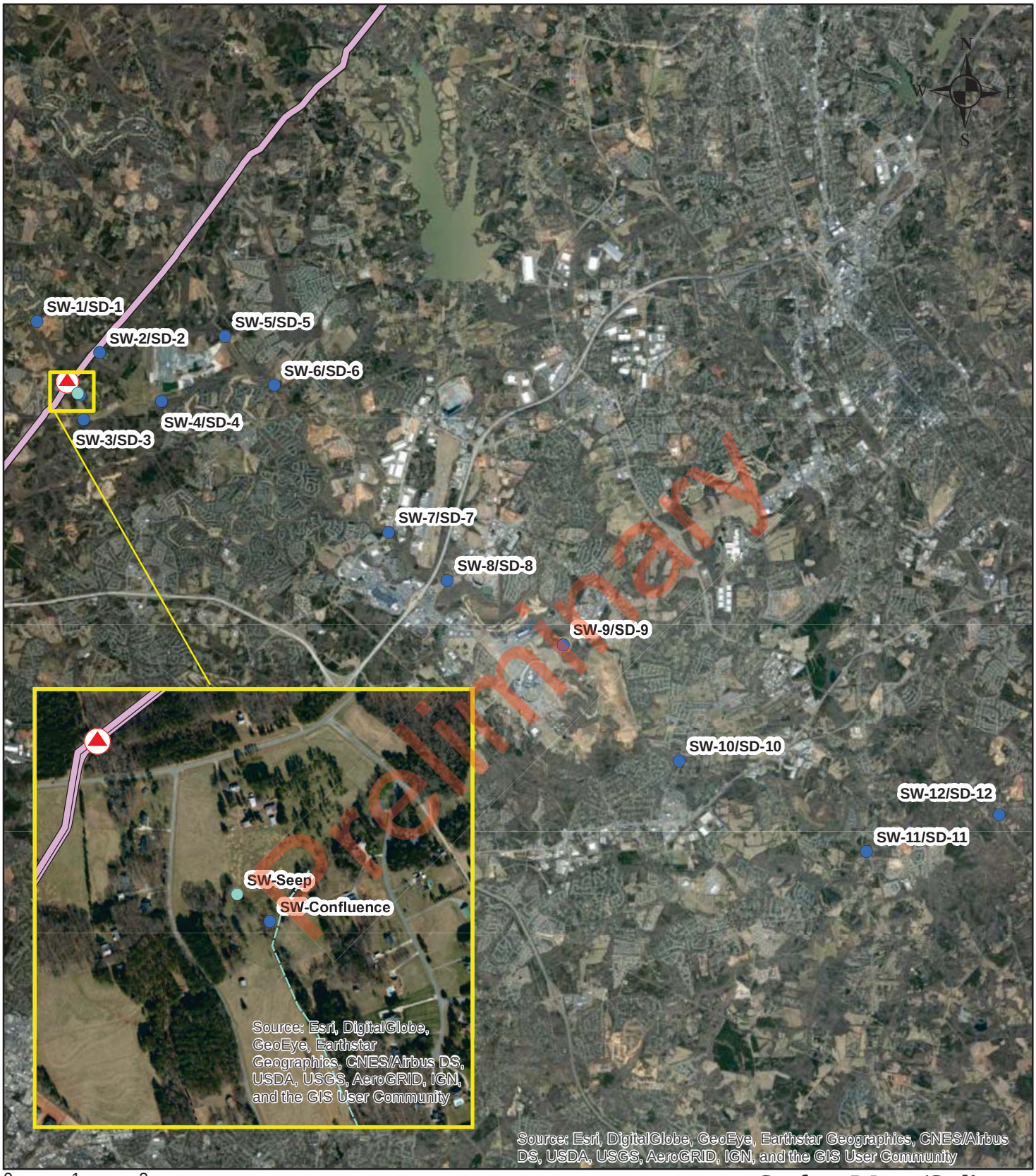
Joseph Nicolette
Project Coordinator
Environmental Planning Specialists, Inc., an affiliate of Montrose Environmental Group
400 Northridge Road
Suite 400
Sandy Springs, Georgia 30350
Direct Phone: 678-336-8554

cc. Colonial Pipeline
- Robert Hughes
- John Wyatt
- John Culbreath

[2] Pace Analytical Services, LLC, 9800 Kincey Ave. Suite 100, Huntersville, NC 28078

FIGURE 1

SURFACE WATER AND SEDIMENT SAMPLING LOCATIONS



0 1 2
Miles

Legend

- Approximate Leak Site
- Surface Water (SW)/Sediment (SD) Sampling Location
- Seep Sampling Location
- Colonial Pipeline
- Ephemeral Stream
- Incise Valley

Surface Water/Sediment Sampling Locations

2020-L1-SR2448 Incident
Huntersville, NC

Environmental Planning Specialists, Inc.

Figure No. 1

ATTACHMENT I

SURFACE WATER AND SEDIMENT SUMMARY DATA

Table 1. Surface Water Sampling Results
2020-L1-SR2448 Incident

Location ID	Description	Date	TPH (GRO) (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m,p-Xylene (µg/L)	o-Xylene (µg/L)	Xylenes (µg/L)	Rain Event
	EPA MCL			5	1,000	700	10,000	10,000	10,000	
	EPA Region 4 ESV (acute)			700	560	550	240	240	240	
	15A North Carolina Administrative Code subchapter 02B			51	11	97	420	600	670	
SW-1	North Prong Clark Creek (Up-gradient of the leak site)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
		8/27/2020	<80	<1	<1	<1	<2	<1	<1	
		9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
SW-2	North Prong Clark Creek (Downgradient of leak site)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
		8/27/2020	<80	<1	<1	<1	<2	<1	<1	
		9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
SW-3	South Prong Clark Creek (Downgradient of the leak site)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
		8/27/2020	<80	<1	<1	<1	<2	<1	<1	
		9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
SW-4	Clarke Creek (Downgradient of North/South Prong Clark Creek confluence)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
		8/27/2020	<80	<1	<1	<1	<2	<1	<1	
		9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
SW-5	Ramah Creek (Upgradient of SW-6)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
		8/27/2020	<80	<1	<1	<1	<2	<1	<1	
		9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
SW-6	Clarke Creek (Downgradient of Ramah Creek confluence)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
		8/27/2020	<80	<1	<1	<1	<2	<1	<1	
		9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x

Note:
(1) Last update: 9/3/2020

Table 1. Surface Water Sampling Results
2020-L1-SR2448 Incident

Location ID	Description	Date	TPH (GRO) (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m,p-Xylene (µg/L)	o-Xylene (µg/L)	Xylenes (µg/L)	Rain Event
	EPA MCL			**5**	**1,000**	**700**	**10,000**	**10,000**	**10,000**	
	EPA Region 4 ESV (acute)			**700**	**560**	**550**	**240**	**240**	**240**	
	15A North Carolina Administrative Code subchapter 02B			**51**	**11**	**97**	**420**	**600**	**670**	
SW-7	**Rocky River (Downgradient of Clarke River confluence)**	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
		8/27/2020	<80	<1	<1	<1	<2	<1	<1	
		9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
SW-8	**Rocky River (Downgradient of Clarke River confluence)**	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
SW-9	**Rocky River (Downgradient of Clarke River confluence)**	8/15/2020	<80	<1	<1	**<1**	<2	<1	<1	
		8/16/2020	<80	<1	<1	**<1**	<2	<1	<1	
		8/17/2020	<80	<1	**<1**	**<1**	<2	<1	<1	
		8/18/2020	<80	<1	**<1**	<1	<2	<1	<1	
		8/19/2020	<80	<1	**<1**	**<1**	**<2**	<1	<1	
		8/20/2020	<80	<1	**<1**	**<1**	<2	<1	<1	
		8/21/2020	<80	**<1**	**<1**	**<1**	<2	<1	<1	
		8/22/2020	<80	**<1**	<1	**<1**	<2	<1	<1	
SW-10	**Rocky River (Downgradient of Clarke River confluence)**	8/15/2020	<80	**<1**	**<1**	**<1**	<2	<1	<1	
		8/16/2020	**<80**	<1	**<1**	<1	<2	<1	<1	
		8/17/2020	**<80**	<1	<1	<1	<2	<1	<1	
		8/18/2020	**<80**	**<1**	**<1**	<1	<2	<1	<1	
		8/19/2020	**<80**	**<1**	**<1**	<1	<2	<1	<1	
		8/20/2020	**<80**	**<1**	**<1**	<1	<2	<1	<1	
		8/21/2020	**<80**	<1	<1	<1	<2	<1	<1	
		8/22/2020	**<80**	<1	<1	<1	<2	<1	<1	
SW-11	**Rocky River (Downgradient of Mallard Creek)**	8/15/2020	**<80**	**<1**	<1	<1	<2	<1	<1	
		8/16/2020	**<80**	<1	<1	<1	<2	<1	<1	
		8/17/2020	**<80**	<1	<1	<1	<2	<1	<1	
		8/18/2020	**<80**	<1	<1	<1	<2	<1	<1	
		8/19/2020	**<80**	<1	<1	<1	<2	<1	<1	
		8/20/2020	**<80**	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
SW-12	**Rocky River (Downgradient of Back Creek)**	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
SW-Seep	**Downgradient of Site**	9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
SW-Confluence	**Downgradient of Site**	9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x

Note:
(1) Last update: 9/3/2020

Table 2. Surface Water General Parameter Measurements
2020-L1-SR2448 Incident

Location ID	Description	Date	Temperature (°C)	pH (STU)	ORP (mV)	Conductivity (mS/cm)	DO (mg/L)	Turbidity (NTU)
SW-1	North Prong Clark Creek (Up-gradient of the leak site)	8/15/2020	26.66	7.58	57	0.146	4.75	10.1
		8/16/2020	26.74	7.47	106	0.133	7.01	9.6
		8/17/2020	25.78	7.47	101	0.137	4.88	2.9
		8/18/2020	23.71	7.52	39	0.168	5.77	15.00
		8/19/2020	26.20	7.45	126	0.13	3.92	5.7
		8/20/2020	24.58	7.52	150	0.135	3.31	13
		8/21/2020	23.23	7.51	166	0.114	2.92	46.6
		8/22/2020	25.05	7.27	121	0.123	4.34	9.5
		8/27/2020	27.40	7.47	186	0.147	3.89	1.3
		9/1/2020	28.48	7.65	175	0.135	3.7	11.9
		9/2/2020	31.39	8.09	152	0.115	4.95	22.4
		9/3/2020	29.03	7.55	176	0.123	4.71	6.5
SW-2	North Prong Clark Creek (Downgradient of leak site)	8/15/2020	24.78	7.68	94	0.142	6.99	90.9
		8/16/2020	23.59	7.73	110	0.109	7.90	247
		8/17/2020	23.05	7.72	106	0.099	7.11	324
		8/18/2020	21.95	7.67	101	0.117	7.75	271
		8/19/2020	23.05	7.73	128	0.131	6.94	51
		8/20/2020	22.26	7.74	112	0.117	6.12	55.7
		8/21/2020	21.87	7.61	128	0.143	3.72	31.8
		8/22/2020	22.61	7.81	117	0.145	6.73	27.1
		8/27/2020	24.76	7.77	170	0.149	5.94	15.8
		9/1/2020	26.13	7.63	165	0.112	4.81	173
		9/2/2020	28.20	7.12	0.84	0.089	4.49	321
		9/3/2020	26.52	7.41	185	0.095	6.36	226
SW-3	South Prong Clark Creek (Downgradient of the leak site)	8/15/2020	25.04	7.65	109	0.113	7.17	224
		8/16/2020	22.52	7.54	123	0.099	7.67	250
		8/17/2020	22.66	7.64	125	0.131	7.76	248
		8/18/2020	20.10	7.68	111	0.151	7.65	198
		8/19/2020	22.98	7.66	147	0.166	6.02	27.3
		8/20/2020	21.92	7.8	99	0.176	5.37	20.9
		8/21/2020	21.40	7.64	128	0.16	3.79	94.2
		8/22/2020	22.26	7.88	113	0.154	6.66	35.5
		8/27/2020	24.99	7.83	162	0.187	6	8.2
		9/1/2020	25.34	7.61	162	0.105	5.81	141
		9/2/2020	27.13	7.12	176	0.071	4.52	238
		9/3/2020	25.18	7.38	158	0.100	5.4	98.5
SW-4	Clarke Creek (Downgradient of North/South Prong Clark Creek confluence)	8/15/2020	25.06	7.7	108	0.124	8.00	168
		8/16/2020	22.85	7.62	96	0.099	7.32	299
		8/17/2020	23.03	7.55	87	0.127	8.00	125
		8/18/2020	20.96	7.60	106	0.129	7.07	96.7
		8/19/2020	23.79	7.63	145	0.147	6.66	29.3
		8/20/2020	22.41	7.77	90	0.155	4.98	22.5
		8/21/2020	21.74	7.69	114	0.163	6.17	40.2
		8/22/2020	22.20	7.9	102	0.14	7.59	42
		8/27/2020	25.56	7.71	187	0.172	6.01	7.6
		9/1/2020	25.61	7.43	138	0.116	5.73	58
		9/2/2020	27.75	6.75	187	0.078	4.97	278
		9/3/2020	25.69	6.86	165	0.103	4.16	131
SW-5	Ramah Creek (Upgradient of SW-6)	8/15/2020	25.44	7.49	51	0.156	6.92	14.3
		8/16/2020	23.57	7.59	55	0.123	8.70	16.6
		8/17/2020	22.57	7.42	62	0.144	5.81	24.3
		8/18/2020	20.28	7.54	37	0.142	7.87	0.00
		8/19/2020	23.98	7.75	136	0.151	6.72	51.1
		8/20/2020	22.06	7.77	86	0.151	6.04	0
		8/21/2020	21.73	7.74	109	0.149	5.3	39.1
		8/22/2020	22.29	7.77	73	0.137	7.38	21.6
		8/27/2020	26.12	7.59	177	0.159	5.29	8.9
		9/1/2020	25.13	7.29	120	0.108	5.47	858
		9/2/2020	27.51	6.59	151	0.073	4.48	233
		9/3/2020	24.87	5.99	213	0.100	4.02	217
SW-6	Clarke Creek (Downgradient of Ramah Creek confluence)	8/15/2020	25.97	7.56	109	0.131	6.50	20.7
		8/16/2020	24.06	7.13	125	0.107	4.42	122
		8/17/2020	24.06	7.64	124	0.139	7.38	71.3
		8/18/2020	21.92	7.49	110	0.136	7.03	52.4
		8/19/2020	23.21	7.56	127	0.142	7.7	23
		8/20/2020	22.42	7.79	126	0.151	6.38	17
		8/21/2020	22.09	7.56	131	0.14	5.55	15.7
		8/22/2020	22.52	7.69	113	0.138	6.03	28
		8/27/2020	25.02	7.64	228	0.17	5.32	3.8
		9/1/2020	26.00	7.19	156	0.151	5.08	103
		9/2/2020	27.23	6.34	224	0.058	2.51	389
		9/3/2020	25.38	6.57	202	0.057	4.38	135

Note:
(1) Updated 9/3/2020.

Table 2. Surface Water General Parameter Measurements
2020-L1-SR2448 Incident

Location ID	Description	Date	Temperature (°C)	pH (STU)	ORP (mV)	Conductivity (mS/cm)	DO (mg/L)	Turbidity (NTU)
SW-7	Rocky River (Downgradient of Clarke River confluence)	8/15/2020	25.81	7.56	132	0.175	6.65	45.5
		8/16/2020	23.98	7.33	127	0.103	6.02	254
		8/17/2020	25.00	7.76	101	0.122	6.89	102
		8/18/2020	22.22	7.54	114	0.16	7.15	71.7
		8/19/2020	22.89	7.63	118	0.181	6.39	41.5
		8/20/2020	22.67	7.75	145	0.179	6.02	33.5
		8/21/2020	22.54	7.57	141	0.191	6.08	49
		8/22/2020	22.66	7.65	124	0.161	6.11	52.9
		8/27/2020	25.42	7.88	247	0.24	5.61	25
		9/1/2020	25.66	7.00	183	0.106	4.72	197
		9/2/2020	31.26	4.96	338	2.28	6.15	163
		9/3/2020	26.12	5.81	312	0.134	3.51	108
SW-8	Rocky River (Downgradient of Clarke River confluence)	8/15/2020	25.72	7.65	105	0.164	7.71	56.4
		8/16/2020	24.19	7.47	136	0.098	6.34	280
		8/17/2020	25.66	7.84	134	0.189	6.88	15.5
		8/18/2020	22.44	7.60	105	0.15	6.9	73.3
		8/19/2020	23.05	7.58	130	0.171	5.34	43.5
		8/20/2020	22.77	7.68	178	0.168	3.6	50.4
		8/21/2020	22.73	7.53	127	0.193	5.7	33.5
		8/22/2020	22.72	7.72	115	0.145	6.5	60.1
SW-9	Rocky River (Downgradient of Clarke River confluence)	8/15/2020	25.27	7.57	126	0.165	5.61	93.1
		8/16/2020	23.83	7.49	125	0.087	4.11	332
		8/17/2020	23.01	7.40	98	0.117	6.77	101
		8/18/2020	23.12	7.60	140	0.135	6.47	72.2
		8/19/2020	23.31	7.33	136	0.161	5.9	34.1
		8/20/2020	23.45	7.45	203	0.139	5.34	40.1
		8/21/2020	23.43	7.33	126	0.168	4.86	23.5
		8/22/2020	22.99	7.55	131	0.156	6.24	109
SW-10	Rocky River (Downgradient of Clarke River confluence)	8/15/2020	25.44	7.56	127	0.169	6.18	77.7
		8/16/2020	24.14	7.34	125	0.091	5.39	459
		8/17/2020	23.15	7.31	113	0.134	6.16	115
		8/18/2020	23.52	7.62	142	0.158	6.36	154
		8/19/2020	23.54	7.2	147	0.191	5.46	3.89
		8/20/2020	23.1	7.45	158	0.112	5.62	219
		8/21/2020	23.61	7.2	152	0.124	4.95	35.1
		8/22/2020	23.39	7.53	128	0.163	5.43	62.3
SW-11	Rocky River (Downgradient of Mallard Creek)	8/15/2020	25.01	7.60	125	0.155	7.15	143
		8/16/2020	24.24	7.02	153	0.086	5.33	466
		8/17/2020	23.20	7.3	128	0.112	6.82	144
		8/18/2020	23.6	7.59	121	0.143	6.36	90.5
		8/19/2020	23.4	7.11	191	0.151	4.2	105
		8/20/2020	23.06	7.55	201	0.098	5.05	359
		8/21/2020	23.33	6.88	198	0.143	3.67	48.9
		8/22/2020	23.28	7.58	124	0.139	6.29	55.6
SW-12	Rocky River (Downgradient of Back Creek)	8/15/2020	25.03	7.61	130	0.159	6.98	157
		8/16/2020	24.22	7.22	150	0.091	6.01	433
		8/17/2020	23.10	7.45	121	0.105	6.74	152
		8/18/2020	23.73	7.73	120	0.141	7.07	117
		8/19/2020	23.31	6.9	226	0.153	5.45	56.8
		8/20/2020	23.12	7.72	119	0.096	5.83	565
		8/21/2020	23.36	6.38	266	0.138	4.66	51.3
		8/22/2020	23.27	7.74	124	0.148	6.11	93.7
SW-Seep	Downgradient of Spill Location	9/1/2020	25.73	5.6	76	0.13	1.2	228
		9/2/2020	28.17	7.13	171	0.121	2.95	6.97
		9/3/2020	31.55	6.24	183	0.113	4.99	516
SW-Confluence	Downgradient of Spill Location	9/1/2020	23.88	6.46	59	0.225	2.75	618
		9/2/2020	28.91	7.69	177	0.13	6.51	156
		9/3/2020	28.58	7.16	148	0.249	7.1	245

Note:
(1) Updated 9/3/2020.

Table 3. Sediment Sampling Results
2020-L1-SR2448 Incident

Location ID	Description	Date	TPH (GRO) (mg/kg)	Benzene (µg/kg)	Toluene (µg/kg)	Ethylbenzene (µg/kg)	m,p-Xylene (µg/kg)	o-Xylene (µg/kg)	Xylenes (µg/kg)
	EPA Region 4 ESV (acute)			10	10	290	130	130	130
	EPA Region 4 RSV (acute)			2,185	2,074	1,467	1,074	1,074	1,074
SD-1	North Prong Clark Creek (Up-gradient of the leak site)	8/16/2020	<7.6	<6.5	<6.5	<6.5	<13	<6.5	<13
SD-2	North Prong Clark Creek (Downgradient of leak site)	8/16/2020	<6.2	<5.2	<5.2	<5.2	<10.3	<5.2	<10.3
SD-3	South Prong Clark Creek (Downgradient of the leak site)	8/16/2020	<6.9	<5.1	<5.1	<5.1	<10.2	<5.1	<10.2
SD-4	Clarke Creek (Downgradient of North/South Prong Clark Creek confluence)	8/16/2020	<8.8	<7.4	<7.4	<7.4	<14.8	<7.4	<14.8
SD-5	Ramah Creek (Upgradient of SD-6)	8/16/2020	<6.6	<5	<5	<5	<9.9	<5	<9.9
SD-6	Clarke Creek (Downgradient of Ramah Creek confluence)	8/16/2020	<10	<8	**8.2**	<8	<15.9	<8	<15.9
		8/19/2020	<9.8	<7.9	<7.9	<7.9	<15.9	<7.9	<15.9
SD-7	Rocky River (Downgradient of Clarke River confluence)	8/16/2020	<7.7	<9	**<9**	<9	<18.1	<9	<18.1
SD-8	Rocky River (Downgradient of Clarke River confluence)	8/16/2020	<6.5	**<6.4**	**<6.4**	**<6.4**	<12.8	<6.4	<12.8
SD-9	Rocky River (Downgradient of Clarke River confluence)	8/16/2020	<12.4	<9.9	<9.9	<9.9	<19.8	<9.9	<19.8
SD-10	Rocky River (Downgradient of Clarke River confluence)	8/16/2020	**<9.8**	<9.4	<9.4	<9.4	<18.7	<9.4	<18.7
SD-11	Rocky River (Downgradient of Mallard Creek)	8/16/2020	**<8.5**	**<3.8**	<3.8	<3.8	<7.6	<3.8	<7.6
SD-12	Rocky River (Downgradient of Back Creek)	8/16/2020	**<10.4**	<5.3	<5.3	<5.3	<10.6	<5.3	<10.6

Note:
(1) Updated 8/20/2020.

ATTACHMENT II

PACE LABORATORY ANALYTICAL REPORTS FOR SURFACE WATER AND SEDIMENT SAMPLES

(Available upon Request)