

1150 Northmeadow Parkway Suite 100 Roswell GA 30076 (770) 594-5998 www.atlcc.net

December 14, 2022

Transmitted via GEOS Submittal ID: 719663

Mr. David DuBose, P.G. Georgia Department of Natural Resources Environmental Protection Division Solid Waste Management Program 4244 International Parkway, Suite 104 Atlanta, Georgia 30354

RE: Periodic Monitoring Report – Fourth Quarter 2022 Forsyth County-Hightower Road Landfill Solid Waste Permit Nos.: 058-006D(SL), 058-009D(SL), & 058-010D(SL) Forsyth County

Dear Mr. DuBose:

Atlantic Coast Consulting, Inc. (ACC) is providing Georgia Department of Natural Resources, Environmental Protection Division (EPD) this Methane Monitoring Report for the closed Hightower Road Solid Waste Landfill. Perimeter monitoring was conducted December 12, 2022, with procedures in accordance with the facility's approved methane monitoring plan. Attached is the SWM-19 form and recent potentiometric map. The monitoring well methane concentrations were reported as being less than 5 percent methane by volume during this monitoring event and the methane concentration in the facility structure was less than 1.25 percent methane by volume.

A copy of this report will be placed in the Operating Record. Please contact me or Sam Buckles with Forsyth County if you have any questions regarding this report.

Thank you,

ATLANTIC COAST CONSULTING, INC.

Charles Adam

Project Manager

Attachments

cc: Samuel Buckles with attachments via email. EPD Mountain District, Cartersville cover letter only via Regular mail. Operating Record via FedEx: 770773222489 SWM-19 FORM

AND

POTENTIOMETRIC MAP

Periodic Methane Monitoring Report

Fourth Quarter / 2022

Quarter or Month / Year

Facility Name:	Hightower Road Landfill	Date(s) of Monitoring:	12/12/2022
Facility Permit #'s:	058-006D(SL), 058-009D(SL)	Monitoring Conducted by:	Z. Davis
Permit #'s (cont):	058-010D(SL)	Equipment Field Calibrated by:	Z. Davis
County (Location):	Forsyth	Date of Field Calibration:	12/12/2022
Monitoring Equipment:	RKI Eagle	Manufacturer Calibration/Service Date:	8/18/2022

- 1. All reports must include a scaled and dated potentiometric surface map, (this applies only to those facilities required to perform groundwater monitoring) that shows ALL monitoring points, accompanied by a table listing the as-built depths and corresponding elevations of the bottoms of the methane monitoring wells and/or barhole punches. The potentiometric surface maps must be updated on an annual basis, and signed & sealed by a qualified groundwater scientist. Those facilities that do not conduct groundwater monitoring should, at a minimum, include a site map that shows ALL monitoring locations.
- 2. All reports must specify whether each monitoring location is a structure, permanent well, barhole punch, or vent (e.g. MM-1=scalehouse, MM-1=well, MM-1=BHP (barhole punch), MM-1=vent, or GWC-1=groundwater well).

3. Monitoring Results

a. Permanent Approved COMPLIANCE Monitoring Locations

Monitoring Point Identification	Monitoring Results		Monitoring Point Identification	Monitoring Results	
MM-1R	% Methane By Volume:	0.0%	MM-6	% Methane By Volume:	0.0%
Well	% Oxygen:	17.6%	Well	% Oxygen:	18.9%
	Time Sampled:	13:00		Time Sampled:	13:50
MM-2	% Methane By Volume:	0.0%	MM-7	% Methane By Volume:	0.0%
Well	% Oxygen:	16.3%	Well	% Oxygen:	18.2%
	Time Sampled:	12:56		Time Sampled:	13:43
MM-3	% Methane By Volume:	0.0%	MM-8	% Methane By Volume:	0.0%
Well	% Oxygen:	18.9%	Well	% Oxygen:	14.8%
	Time Sampled:	13:08		Time Sampled:	13:31
MM-4	% Methane By Volume:	0.0%	MM-9	% Methane By Volume:	0.0%
Well	% Oxygen:	20.5%	Well	% Oxygen:	17.2%
	Time Sampled:	13:13		Time Sampled:	13:27
MM-5	% Methane By Volume:	0.0%	MM-10	% Methane By Volume:	0.0%
Well	% Oxygen:	18.3%	Well	% Oxygen:	15.2%
	Time Sampled:	13:55]	Time Sampled:	13:23

a. Permanent Approved COMPLIANCE Monitoring Locations (continued)

<u>Monitoring Point</u> Identification	Monitoring Results		Monitoring Point	Monitoring Results	
 MM-11R	% Methane By Volume:	0.0%	 MM-14		0.0%
	% Methane by volume.	0.0%	191191-14	% Methane By Volume:	0.0%
BHP	% Oxygen:	20.9%	Well	% Oxygen:	19.7%
	Time Sampled:	13:37		Time Sampled:	12:50
		/			
MM-13	% Methane By Volume:	0.0%	MM-15	% Methane By Volume:	0.0%
Well	% Oxygen:	19.2%	Well	% Oxygen:	20.5%
	Time Sampled:	12:53		Time Sampled:	12:46

b. Facility Structures (All on-site structures must be monitored, listed, and shown on map.)

Facility Structure	Monitoring Results		Facility Structure	Monitoring Results
Tool Shed	% LEL:	0.0%	N/A	% LEL:
	% Methane by Volume:	0.0%		% Methane by Volume:
	% Oxygen:	20.9%		% Oxygen:
	Time Sampled:	13:16		Time Sampled:

c. Miscellaneous Monitoring Locations (vents, trenches not part of compliance monitoring)

Monitoring Point Identification	Monitoring Results		Monitoring Point Identification	Monitoring Results	
MV-11 Vent	% Methane By Volume: % Oxygen: Time Sampled:	0.0% 20.8% 13:20	N/A	% Methane By Volume: % Oxygen: Time Sampled:	

d. Adjacent Off-Site Structures (off-site structures at facilities with known release)

Off-Site Structure	Monitoring Results	Off-Site Structure	Monitoring Results
<u>N/A</u>	% LEL: % Methane by Volume: % Oxygen: Time Sampled:	N/A	_% LEL: % Methane by Volume: % Oxygen: Time Sampled:

4. Climatic/Physical Conditions at Site

Samples must be collected under normal/average conditions of temperature, pressure, and climate for the season. Barhole punch sampling should not be performed during or immediately after rain events, or when soils are saturated or frozen. All sampling at compliance monitoring locations must be performed after 12:00 pm, and completed by 6:00 pm. Barometric information can be obtained from many locations. (i.e. http://weather.noaa.gov)

a.	Soil Conditions:	Normal							
b.	Weather Conditions:	Cloudy							
c.	Temperature:	56 degrees F							
d.	Barometric Conditions:	Rising		Falling		Steady	Х	Reading:	30.11
e.	Relative Humidity 10-90%	?	Yes	X	No			Range:	69-75%
f.	Condition/Access: Sampli	ng points are p	roperly	identified,	secured,	and main	itained?		
					Yes	Χ	No		
If no, please list deficiencies observed:									
All points were marked with proper access.									

g. If stressed vegetation due to the presence of methane gas is noted, describe the extent and location in the space provided below.

Vegetation is not stressed.

5. **Description of Sampling Techniques:** Provide a clear and concise description for each type of sampling (well, barhole punch, structure, etc.) performed during the monitoring event. Wells are **NOT** to be vented; peak readings should be reported. Any exceptions should be noted here.

Wells were not vented prior to taking the sample and are equipped with quick-connect sample ports. The instrument was allowed to pump the sample for 3 minutes until the oxygen reading stabilized and the peak reading was recorded.

6. Additional Comments

Event attended by Samuel B. Buckles, Environmental Scientist Manager, Forsyth County Recycling & Solid Waste Department

CERTIFICATION

I CERTIFY that all required information on this form is complete and accurate, and

I further CERTIFY that methane sampling was conducted by myself or my authorized representative in accordance with all applicable rules and current EPD guidance. Concentrations of methane detected during this sampling/monitoring event ____ do / X do not exceed 25 percent of the lower explosive limit (LEL) for methane in facility structures (excluding the gas recovery system components), and gas concentrations ____ **do** / **X do not** exceed the LEL for methane at the approved compliance monitoring locations.

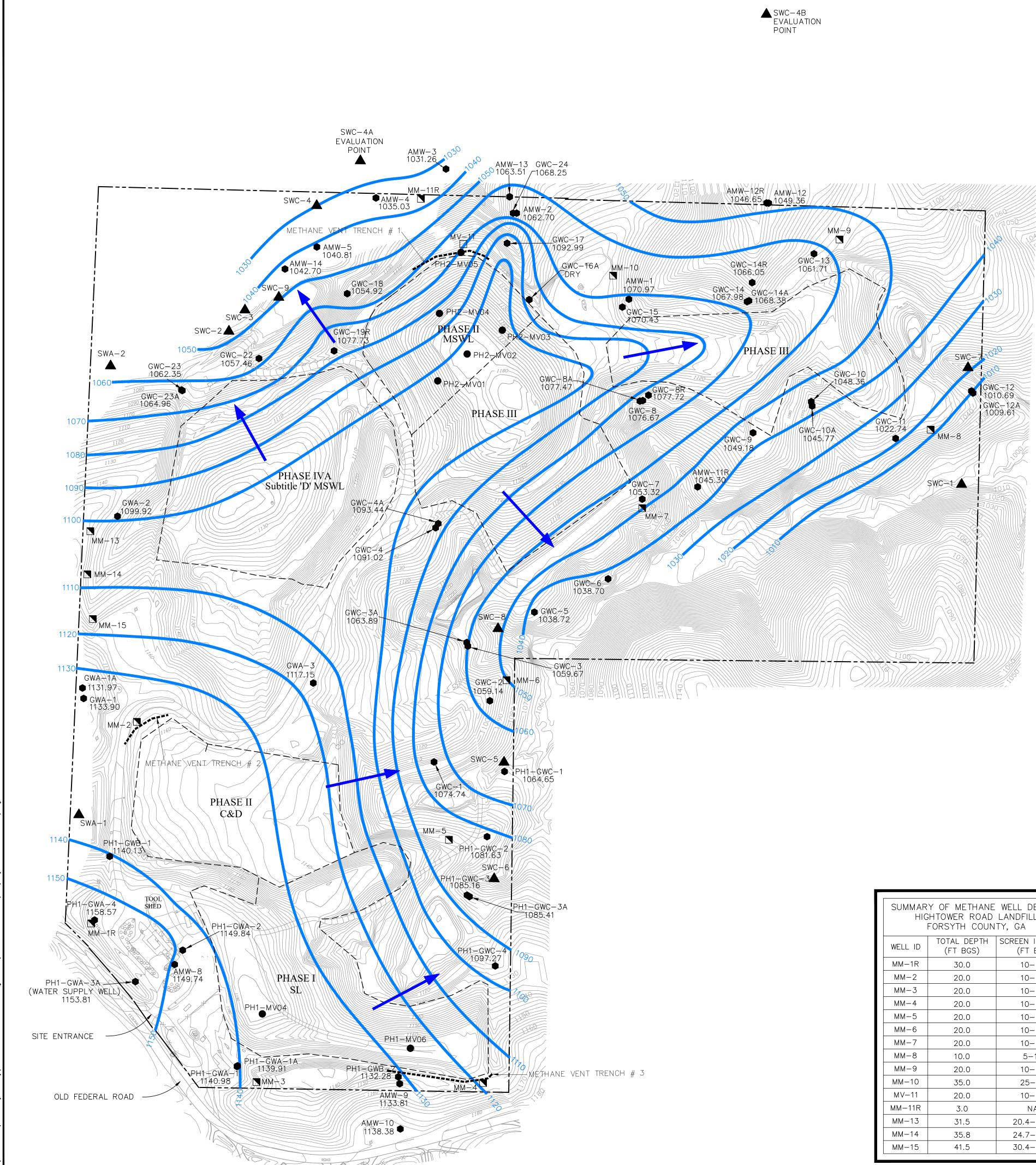
(IF THIS STATEMENT IS NOT SIGNED OR THE FORM IS ALTERED, THE DIVISION WILL NOT ACCEPT THE **RESULTS FROM THE SUBJECT FACILITY.)**

(Signature)

Professional Geologist # 1632 (Title)

13-Dec-2022 (Date)

Charles Adams, 1150 Northmeadow Pkwy., Suite 100, Roswell, GA 30076, (770) 594-5998 (Typed Name, Address, and Telephone Number)



WELL ID TOTAL DEPTH (FT BGS) SCREEN INTERVAL (FT BGS) MM-1R 30.0 10-30 MM-2 20.0 10-20 MM-3 20.0 10-20 MM-4 20.0 10-20 MM-5 20.0 10-20 MM-6 20.0 10-20 MM-6 20.0 10-20 MM-7 20.0 10-20 MM-6 20.0 10-20 MM-7 20.0 10-20 MM-7 20.0 10-20 MM-10 35.0 25-35 MV-11 20.0 10-20 MM-13 31.5 20.4-30.4 MM-13 31.5 20.4-30.4 MM-14 35.8 24.7-34.7 MM-15 41.5 30.4-40.4	SUMMARY OF METHANE WELL DETAILS HIGHTOWER ROAD LANDFILL FORSYTH COUNTY, GA						
MM-2 20.0 10-20 MM-3 20.0 10-20 MM-4 20.0 10-20 MM-5 20.0 10-20 MM-6 20.0 10-20 MM-7 20.0 10-20 MM-8 10.0 5-10 MM-9 20.0 10-20 MM-10 35.0 25-35 MV-11 20.0 10-20 MM-11R 3.0 NA MM-13 31.5 20.4-30.4 MM-14 35.8 24.7-34.7	WELL ID						
MM-3 20.0 10-20 MM-4 20.0 10-20 MM-5 20.0 10-20 MM-6 20.0 10-20 MM-7 20.0 10-20 MM-8 10.0 5-10 MM-9 20.0 10-20 MM-10 35.0 25-35 MV-11 20.0 10-20 MM-11R 3.0 NA MM-13 31.5 20.4-30.4 MM-14 35.8 24.7-34.7	MM-1R	30.0	10-30				
MM-4 20.0 10-20 MM-5 20.0 10-20 MM-6 20.0 10-20 MM-7 20.0 10-20 MM-8 10.0 5-10 MM-9 20.0 10-20 MM-10 35.0 25-35 MV-11 20.0 10-20 MM-13 31.5 20.4-30.4 MM-14 35.8 24.7-34.7	MM-2	20.0	10-20				
MM-5 20.0 10-20 MM-6 20.0 10-20 MM-7 20.0 10-20 MM-8 10.0 5-10 MM-9 20.0 10-20 MM-10 35.0 25-35 MV-11 20.0 10-20 MM-13 31.5 20.4-30.4 MM-14 35.8 24.7-34.7	MM-3	20.0	10-20				
MM-6 20.0 10-20 MM-7 20.0 10-20 MM-8 10.0 5-10 MM-9 20.0 10-20 MM-10 35.0 25-35 MV-11 20.0 10-20 MM-11R 3.0 NA MM-13 31.5 20.4-30.4 MM-14 35.8 24.7-34.7	MM-4	20.0	10-20				
MM-7 20.0 10-20 MM-8 10.0 5-10 MM-9 20.0 10-20 MM-10 35.0 25-35 MV-11 20.0 10-20 MM-11R 3.0 NA MM-13 31.5 20.4-30.4 MM-14 35.8 24.7-34.7	MM-5	20.0	10-20				
MM-8 10.0 5-10 MM-9 20.0 10-20 MM-10 35.0 25-35 MV-11 20.0 10-20 MM-11R 3.0 NA MM-13 31.5 20.4-30.4 MM-14 35.8 24.7-34.7	MM-6	20.0	10-20				
MM-9 20.0 10-20 MM-10 35.0 25-35 MV-11 20.0 10-20 MM-11R 3.0 NA MM-13 31.5 20.4-30.4 MM-14 35.8 24.7-34.7	MM-7	20.0	10-20				
MM-10 35.0 25-35 MV-11 20.0 10-20 MM-11R 3.0 NA MM-13 31.5 20.4-30.4 MM-14 35.8 24.7-34.7	MM-8	10.0	5-10				
MV-11 20.0 10-20 MM-11R 3.0 NA MM-13 31.5 20.4-30.4 MM-14 35.8 24.7-34.7	MM-9	20.0	10-20				
MM-11R 3.0 NA MM-13 31.5 20.4-30.4 MM-14 35.8 24.7-34.7	MM-10	35.0	25-35				
MM-13 31.5 20.4-30.4 MM-14 35.8 24.7-34.7	MV-11	20.0	10-20				
MM-14 35.8 24.7-34.7	MM-11R	3.0	NA				
	MM-13	31.5	20.4-30.4				
MM-15 41.5 30.4-40.4	MM-14	35.8	24.7-34.7				
	MM-15	41.5	30.4-40.4				

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						ATLANTIC COAST CONSULTING, INC. 770-594-5998 www.atlcc.net Roswell, GA
		ORSYTH COUN	ROUNDWATER E TY – HIGHTOWE	ER ROAD MSWLF		Savannah, GA
•	MONITORING WELL ID	TOTAL WELL DEPTH (FT BTOC)	2022 SAMPLING TOC ELEVATION (FT MSL)	DEPTH TO WATER LEVEL (FT BTOC)	GROUNDWATER ELEVATION (FT MSL)	Knoxville, TN 150 0 75 150 300 600
	PH1-GWA-1	48.66	PHASE WELLS 1176.37	35.39	1140.98	SCALE (IN FEET)
	H1-GWA-1A	108.00	1176.35	36.44	1139.91	
	PH1-GWA-2 H1-GWA-3A	53.60 250.00	1183.40 1187.16	33.56 33.35	1149.84 1153.81	LEGEND:
	PH1-GWA-4	57.00	1191.14	32.57	1158.57	EXISTING DESCRIPTION
	PH1-GWB-1	53.80	1179.10	38.97	1140.13	PROMINENT CONTOUR
	PH1-GWB-2 PH1-GWC-1	42.22	1155.04	22.76 10.01	1132.28	
	PH1-GWC-2	127.61	1103.93	22.30	1081.63	PROPERTY BOUNDARY APPROXAMITE LIMIT OF WASTE
	PH1-GWC-3	23.42	1096.96	11.80	1085.16	GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
	H1-GWC-3A	55.42	1096.28	10.87	1085.41	GROUNDWATER FLOW DIRECTION
	PH1-GWC-4 GWC-1	33.71 38.80	1124.26 1102.25	26.99 27.51	1097.27 1074.74	● GWA-1 GROUNDWATER MONITORING WELL
	AMW-8	50.40	1186.23	36.49	1149.74	▲ SWA-1 SURFACE WATER MONITORING POINT ▶ MM-1 METHANE MONITORING POINT
	AMW-9	41.69	1162.64	28.83	1133.81	□ MV−1 METHANE VENT
	AMW-10	56.81 PH	1180.73 ASE II – IV WE	42.35	1138.38	● PH1-MV04 EXTRACTION POINT WITH ACTIVE FLARE
	GWA-1	62.85	1187.70	53.80	1133.90	
	GWA-1A	141.00	1187.49	55.52	1131.97	
	GWA-2 GWA-3	52.18 48.86	1137.30 1154.53	37.38 37.38	1099.92	
	GWC-2	55.61	1103.64	44.50	1059.14	NOTES
	GWC-3	39.71	1092.39	32.72	1059.67	1. DEPTHS TO GROUNDWATER MEASURED BY ATLANTIC COAST CONSULTING, INC. JUNE 6,
	GWC-3A	68.95	1094.67	30.78	1063.89	 2022. WELL AND PROBE LOCATIONS ARE APPROXIMATE AND BASED ON W.L. JORDEN & CO.
	GWC-4 GWC-4A	49.81 89.23	1132.82 1132.39	41.80 38.95	1091.02	DRAWINGS DATED MARCH 3, 1996. 3. SURVEY IS PROVIDED BY APPALACHIAN SURVEYING COMPANY IN CUMMING, GEORGIA
	GWC-4A GWC-5	49.91	1084.55	45.69	1038.86	DATED JANUARY AND APRIL 1998. CONTROL POINT COORDINATES WERE TAKEN FROM THESE SURVEYS.
	GWC-6	34.52	1064.01	25.29	1038.72	 LOCATIONS OF MM-1R, MM-13, MM-14, AND MM-15 ARE APPROXIMATE. LOCATIONS OF AMW-2 AND AMW-3 ARE APPROXIMATE.
	GWC-7	54.21	1093.44	40.12	1053.32	 GWA-1A, GWC-4A, GWC-23A, AMW-2 AND AMW-9 ARE NOT USED FOR POTENTIOMETRIC CONTOURS.
	GWC-8 GWC-8A	27.53 46.71	1095.63	18.96 17.97	1076.67 1077.47	 POTENTIOMETRIC CONTOUR INTERVAL IS 10 FEET. FT BTOC = FEET BELOW CASING; FT MSL = FEET MEAN SEA LEVEL; AND FT BGS =
	GWC-8R	94.67	1098.40	20.68	1077.72	FEET BELOW GROUND SURFACE; NA = NOT APPLICABLE.
	GWC-9	60.50	1093.58	44.40	1049.18	
	GWC-10	37.51	1068.56	20.20	1048.36	
		UMMARY OF G				
			ROUNDWATER E NTY – HIGHTOV			
		FORSYTH COU		WER RD MSWLF		REVISIONS
		FORSYTH COU JUNE 2 TOTAL WELL	NTY - HIGHTON 2022 SAMPLING TOC	WER RD MSWLF EVENT DEPTH TO	GROUNDWATER	REVISIONS 0. INITIAL ISSUE 09/16/2022
1	MONITORING WELL ID	FORSYTH COU JUNE 2	NTY — HIGHTOV 2022 SAMPLING T	WER RD MSWLF ; EVENT]		
		FORSYTH COU JUNE 2 TOTAL WELL DEPTH (FT BTOC)	NTY - HIGHTON 2022 SAMPLING TOC ELEVATION	WER RD MSWLF EVENT DEPTH TO WATER LEVEL (FT BTOC)	GROUNDWATER ELEVATION	
	WELL ID GWC-10A	FORSYTH COU JUNE 2 TOTAL WELL DEPTH (FT BTOC) PH 54.30	NTY - HIGHTON 2022 SAMPLING TOC ELEVATION (FT MSL) ASE II - IV WE 1066.45	WER RD MSWLF EVENT DEPTH TO WATER LEVEL (FT BTOC) CLLS 20.68	GROUNDWATER ELEVATION (FT MSL) 1045.77	
	WELL ID GWC-10A GWC-11	FORSYTH COU JUNE 2 TOTAL WELL DEPTH (FT BTOC) PH 54.30 46.80	NTY - HIGHTON 2022 SAMPLING TOC ELEVATION (FT MSL) ASE II - IV WE 1066.45 1054.08	WER RD MSWLF EVENT DEPTH TO WATER LEVEL (FT BTOC) CLLS 20.68 31.34	GROUNDWATER ELEVATION (FT MSL) 1045.77 1022.74	
	WELL ID GWC-10A	FORSYTH COU JUNE 2 TOTAL WELL DEPTH (FT BTOC) PH 54.30	NTY - HIGHTON 2022 SAMPLING TOC ELEVATION (FT MSL) ASE II - IV WE 1066.45	WER RD MSWLF EVENT DEPTH TO WATER LEVEL (FT BTOC) CLLS 20.68	GROUNDWATER ELEVATION (FT MSL) 1045.77	0. INITIAL ISSUE 09/16/2022
	WELL ID GWC-10A GWC-11 GWC-12	FORSYTH COU JUNE 2 TOTAL WELL DEPTH (FT BTOC) PH 54.30 46.80 40.06	NTY - HIGHTON 2022 SAMPLING TOC ELEVATION (FT MSL) ASE II - IV WE 1066.45 1054.08 1038.06	WER RD MSWLF EVENT DEPTH TO WATER LEVEL (FT BTOC) CLLS 20.68 31.34 27.37	GROUNDWATER ELEVATION (FT MSL) 1045.77 1022.74 1010.69	0. INITIAL ISSUE 09/16/2022
	WELL ID GWC-10A GWC-11 GWC-12 GWC-12A GWC-13 GWC-14	FORSYTH COU JUNE 2 TOTAL WELL DEPTH (FT BTOC) PH 54.30 46.80 40.06 49.44 44.95 28.37	NTY - HIGHTOV 2022 SAMPLING TOC ELEVATION (FT MSL) ASE II - IV WE 1066.45 1054.08 1038.06 1038.09 1090.82 1089.49	WER RD MSWLF EVENT DEPTH TO WATER LEVEL (FT BTOC) CLLS 20.68 31.34 27.37 28.48 29.11 21.51	GROUNDWATER ELEVATION (FT MSL) 1045.77 1022.74 1010.69 1009.61 1061.71 1067.98	0. INITIAL ISSUE 09/16/2022
	WELL ID GWC-10A GWC-11 GWC-12 GWC-12A GWC-13 GWC-14 GWC-14A	FORSYTH COU JUNE 2 TOTAL WELL DEPTH (FT BTOC) PH 54.30 46.80 40.06 49.44 44.95 28.37 64.75	NTY - HIGHTOV 2022 SAMPLING TOC ELEVATION (FT MSL) ASE II - IV WE 1066.45 1054.08 1038.06 1038.09 1090.82 1089.49 1089.32	WER RD MSWLF EVENT DEPTH TO WATER LEVEL (FT BTOC) CLLS 20.68 31.34 27.37 28.48 29.11 21.51 20.94	GROUNDWATER ELEVATION (FT MSL) 1045.77 1022.74 1010.69 1009.61 1061.71 1067.98 1068.38	0. INITIAL ISSUE 09/16/2022
	WELL ID GWC-10A GWC-11 GWC-12 GWC-12A GWC-13 GWC-14	FORSYTH COU JUNE 2 TOTAL WELL DEPTH (FT BTOC) PH 54.30 46.80 40.06 49.44 44.95 28.37	NTY - HIGHTOV 2022 SAMPLING TOC ELEVATION (FT MSL) ASE II - IV WE 1066.45 1054.08 1038.06 1038.09 1090.82 1089.49	WER RD MSWLF EVENT DEPTH TO WATER LEVEL (FT BTOC) CLLS 20.68 31.34 27.37 28.48 29.11 21.51	GROUNDWATER ELEVATION (FT MSL) 1045.77 1022.74 1010.69 1009.61 1061.71 1067.98	0. INITIAL ISSUE 09/16/2022
	WELL ID GWC-10A GWC-11 GWC-12 GWC-12A GWC-13 GWC-14A GWC-14A GWC-14R GWC-15 GWC-16A	FORSYTH COU JUNE 2 TOTAL WELL DEPTH (FT BTOC) PH 54.30 46.80 40.06 49.44 44.95 28.37 64.75 93.61 62.84 51.05	NTY - HIGHTOV 2022 SAMPLING TOC ELEVATION (FT MSL) ASE II - IV WE 1066.45 1054.08 1038.06 1038.09 1090.82 1089.49 1089.32 1078.60 1125.68 1136.49	WER RD MSWLF EVENT DEPTH TO WATER LEVEL (FT BTOC) CLLS 20.68 31.34 27.37 28.48 29.11 21.51 20.94 12.55 55.25 DRY	GROUNDWATER ELEVATION (FT MSL) 1045.77 1022.74 1010.69 1009.61 1061.71 1067.98 1068.38 1066.05 1070.43 DRY	0. INITIAL ISSUE 09/16/2022
	WELL ID GWC-10A GWC-11 GWC-12 GWC-12A GWC-13 GWC-14 GWC-14A GWC-14R GWC-14R GWC-15 GWC-16A GWC-17	FORSYTH COU JUNE 2 TOTAL WELL DEPTH (FT BTOC) PH. 54.30 46.80 40.06 49.44 44.95 28.37 64.75 93.61 62.84 51.05 21.59	NTY - HIGHTOV 2022 SAMPLING TOC ELEVATION (FT MSL) ASE II - IV WE 1066.45 1054.08 1038.06 1038.09 1090.82 1089.49 1089.32 1078.60 1125.68 1136.49 1107.78	WER RD MSWLF EVENT DEPTH TO WATER LEVEL (FT BTOC) CLLS 20.68 31.34 27.37 28.48 29.11 21.51 20.94 12.55 55.25 DRY 14.79	GROUNDWATER ELEVATION (FT MSL) 1045.77 1022.74 1010.69 1009.61 1061.71 1067.98 1068.38 1066.05 1070.43 DRY 1092.99	0. INITIAL ISSUE 09/16/2022
	WELL ID GWC-10A GWC-11 GWC-12 GWC-12A GWC-13 GWC-14A GWC-14A GWC-14R GWC-15 GWC-16A	FORSYTH COU JUNE 2 TOTAL WELL DEPTH (FT BTOC) PH 54.30 46.80 40.06 49.44 44.95 28.37 64.75 93.61 62.84 51.05	NTY - HIGHTOV 2022 SAMPLING TOC ELEVATION (FT MSL) ASE II - IV WE 1066.45 1054.08 1038.06 1038.09 1090.82 1089.49 1089.32 1078.60 1125.68 1136.49	WER RD MSWLF EVENT DEPTH TO WATER LEVEL (FT BTOC) CLLS 20.68 31.34 27.37 28.48 29.11 21.51 20.94 12.55 55.25 DRY	GROUNDWATER ELEVATION (FT MSL) 1045.77 1022.74 1010.69 1009.61 1061.71 1067.98 1068.38 1066.05 1070.43 DRY	0. INITIAL ISSUE 09/16/2022
	WELL ID GWC-10A GWC-11 GWC-12 GWC-12A GWC-12A GWC-14A GWC-14A GWC-14R GWC-14R GWC-16A GWC-17 GWC-18	FORSYTH COU JUNE 2 TOTAL WELL DEPTH (FT BTOC) PH 54.30 46.80 40.06 49.44 44.95 28.37 64.75 93.61 62.84 51.05 21.59 52.70	NTY - HIGHTOV 2022 SAMPLING TOC ELEVATION (FT MSL) ASE II - IV WE 1066.45 1054.08 1038.06 1038.09 1090.82 1089.49 1089.32 1078.60 1125.68 1136.49 1107.78 1094.87	WER RD MSWLF EVENT DEPTH TO WATER LEVEL (FT BTOC) CLLS 20.68 31.34 27.37 28.48 29.11 21.51 20.94 12.55 55.25 DRY 14.79 39.95	GROUNDWATER ELEVATION (FT MSL) 1045.77 1022.74 1010.69 1009.61 1061.71 1067.98 1068.38 1066.05 1070.43 DRY 1092.99 1054.92	0. INITIAL ISSUE 09/16/2022 PROJECT VIENTIAL ISSUE PROJECT VIENTIAL ISSUE FORSYTH COUNTY
	WELL ID GWC-10A GWC-11 GWC-12 GWC-12A GWC-12A GWC-14A GWC-14A GWC-14R GWC-14R GWC-14R GWC-14R GWC-19R GWC-19R GWC-22 GWC-23	FORSYTH COU JUNE 2 TOTAL WELL DEPTH (FT BTOC) PH. 54.30 46.80 40.06 49.44 44.95 28.37 64.75 93.61 62.84 51.05 21.59 52.70 39.87 35.05 32.22	NTY - HIGHTOV 2022 SAMPLING TOC ELEVATION (FT MSL) ASE II - IV WE 1066.45 1054.08 1038.06 1038.09 1090.82 1089.49 1089.32 1078.60 1125.68 1136.49 1107.78 1094.87 1105.79 1079.01 1079.06	WER RD MSWLF EVENT DEPTH TO WATER LEVEL (FT BTOC) CLLS 20.68 31.34 27.37 28.48 29.11 21.51 20.94 12.55 55.25 DRY 14.79 39.95 28.06 21.55 16.71	GROUNDWATER ELEVATION (FT MSL) 1045.77 1022.74 1010.69 1009.61 1061.71 1067.98 1068.38 1066.05 1070.43 DRY 1092.99 1054.92 1077.73 1057.46 1062.35	0. INITIAL ISSUE 09/16/2022 PROJECT VIENTIAL ISSUE PROJECT VIENTIAL ISSUE FORSYTH COUNTY HIGHTOWER ROAD LANDFILL
	WELL ID GWC-10A GWC-11 GWC-12 GWC-12A GWC-12A GWC-14A GWC-14A GWC-14A GWC-14R GWC-16A GWC-16A GWC-17 GWC-17 GWC-18 GWC-19R GWC-22 GWC-23 GWC-23A	FORSYTH COU JUNE 2 TOTAL WELL DEPTH (FT BTOC) PH 54.30 46.80 40.06 49.44 44.95 28.37 64.75 93.61 62.84 51.05 21.59 52.70 39.87 35.05 32.22 61.67	NTY - HIGHTOV 2022 SAMPLING TOC ELEVATION (FT MSL) ASE II - IV WE 1066.45 1054.08 1038.06 1038.09 1090.82 1089.49 1089.32 1078.60 1125.68 1136.49 1107.78 1094.87 1105.79 1079.01 1079.06 1079.10	WER RD MSWLF EVENT DEPTH TO WATER LEVEL (FT BTOC) CLLS 20.68 31.34 27.37 28.48 29.11 21.51 20.94 12.55 55.25 DRY 14.79 39.95 28.06 21.55 16.71 14.14	GROUNDWATER ELEVATION (FT MSL) 1045.77 1022.74 1010.69 1009.61 1061.71 1067.98 1068.38 1066.05 1070.43 DRY 1092.99 1054.92 1077.73 1057.46 1062.35 1064.96	O. INITIAL ISSUE O9/16/2022 PROJECT FORJECT FORSYTH COUNTY HIGHTOWER ROAD LANDFILL POTENTIOMETRIC SURFACE MAP
	WELL ID GWC-10A GWC-11 GWC-12 GWC-12A GWC-12A GWC-14A GWC-14A GWC-14R GWC-14R GWC-14R GWC-14R GWC-19R GWC-19R GWC-22 GWC-23	FORSYTH COU JUNE 2 TOTAL WELL DEPTH (FT BTOC) PH. 54.30 46.80 40.06 49.44 44.95 28.37 64.75 93.61 62.84 51.05 21.59 52.70 39.87 35.05 32.22	NTY - HIGHTOV 2022 SAMPLING TOC ELEVATION (FT MSL) ASE II - IV WE 1066.45 1054.08 1038.06 1038.09 1090.82 1089.49 1089.32 1078.60 1125.68 1136.49 1107.78 1094.87 1105.79 1079.01 1079.06	WER RD MSWLF EVENT DEPTH TO WATER LEVEL (FT BTOC) CLLS 20.68 31.34 27.37 28.48 29.11 21.51 20.94 12.55 55.25 DRY 14.79 39.95 28.06 21.55 16.71	GROUNDWATER ELEVATION (FT MSL) 1045.77 1022.74 1010.69 1009.61 1061.71 1067.98 1068.38 1066.05 1070.43 DRY 1092.99 1054.92 1077.73 1057.46 1062.35	0. INITIAL ISSUE 09/16/2022 PROJECT VIENTIAL ISSUE PROJECT VIENTIAL ISSUE FORSYTH COUNTY HIGHTOWER ROAD LANDFILL
	WELL ID GWC-10A GWC-11 GWC-12 GWC-12A GWC-12A GWC-14A GWC-14A GWC-14R GWC-14R GWC-16A GWC-16A GWC-17 GWC-17 GWC-18 GWC-19R GWC-22 GWC-23 GWC-23A GWC-24	FORSYTH COU JUNE 2 TOTAL WELL DEPTH (FT BTOC) PH 54.30 46.80 40.06 49.44 44.95 28.37 64.75 93.61 62.84 51.05 21.59 52.70 39.87 35.05 32.22 61.67 44.09	NTY - HIGHTOV 2022 SAMPLING TOC ELEVATION (FT MSL) ASE II - IV WE 1066.45 1054.08 1038.06 1038.09 1090.82 1089.49 1089.32 1078.60 1125.68 1136.49 1107.78 1094.87 1105.79 1079.01 1079.06 1079.10 1102.32	WER RD MSWLF EVENT DEPTH TO WATER LEVEL (FT BTOC) CLLS 20.68 31.34 27.37 28.48 29.11 21.51 20.94 12.55 55.25 DRY 14.79 39.95 28.06 21.55 16.71 14.14 34.07	GROUNDWATER ELEVATION (FT MSL) 1045.77 1022.74 1010.69 1009.61 1061.71 1067.98 1068.38 1066.05 1070.43 DRY 1092.99 1054.92 1077.73 1057.46 1062.35 1064.96 1068.25 1070.97 1062.70	O. INITIAL ISSUE O9/16/2022 PROJECT FORJECT FORSYTH COUNTY HIGHTOWER ROAD LANDFILL POTENTIOMETRIC SURFACE MAP
	WELL ID GWC-10A GWC-11 GWC-12 GWC-12A GWC-14A GWC-15 GWC-16A GWC-17 GWC-18 GWC-19R GWC-23 GWC-23A GWC-23A GWC-24 AMW-1 AMW-2 AMW-3	FORSYTH COU JUNE 2 TOTAL WELL DEPTH (FT BTOC) PH 54.30 46.80 40.06 49.44 44.95 28.37 64.75 93.61 62.84 51.05 21.59 52.70 39.87 35.05 32.22 61.67 44.09 180.70 150.00 31.30	NTY - HIGHTOV 2022 SAMPLING TOC ELEVATION (FT MSL) ASE II - IV WE 1066.45 1054.08 1038.06 1038.09 1090.82 1089.49 1089.32 1078.60 1125.68 1136.49 1107.78 1094.87 1107.78 1094.87 1105.79 1079.01 1079.01 1079.06 1079.10 1102.32 1130.04 1101.96 1041.09	WER RD MSWLF EVENT DEPTH TO WATER LEVEL (FT BTOC) LLLS 20.68 31.34 27.37 28.48 29.11 21.51 20.94 12.55 55.25 DRY 14.79 39.95 28.06 21.55 16.71 14.14 34.07 59.07 39.26 9.94	GROUNDWATER ELEVATION (FT MSL) 1045.77 1022.74 1010.69 1009.61 1061.71 1067.98 1068.38 1066.05 1070.43 DRY 1092.99 1054.92 1077.73 1057.46 1062.35 1064.96 1068.25 1070.97 1062.70 1031.15	O. INITIAL ISSUE 09/16/2022 PROJECT FORJECT FORSYTH COUNTY HIGHTOWER ROAD LANDFILL POTENTIOMETRIC SURFACE MAP JUNE 2022
	WELL ID GWC-10A GWC-11 GWC-12 GWC-12A GWC-12A GWC-13 GWC-14A GWC-14A GWC-14A GWC-14A GWC-15 GWC-15 GWC-15 GWC-16A GWC-17 GWC-17 GWC-18 GWC-19R GWC-23 GWC-24 C AMW-1 AMW-2 AMW-3 AMW-4	FORSYTH COU JUNE 2 TOTAL WELL DEPTH (FT BTOC) PH 54.30 46.80 40.06 49.44 44.95 28.37 64.75 93.61 62.84 51.05 21.59 52.70 39.87 35.05 32.22 61.67 44.09 180.70 150.00 31.30 18.80	NTY - HIGHTOV 2022 SAMPLING TOC ELEVATION (FT MSL) ASE II - IV WE 1066.45 1054.08 1038.06 1038.09 1090.82 1089.49 1089.32 1078.60 1125.68 1136.49 1107.78 1094.87 1107.78 1094.87 1105.79 1079.01 1079.01 1079.06 1079.10 1102.32 1130.04 1101.96 1041.09	WER RD MSWLF EVENT DEPTH TO WATER LEVEL (FT BTOC) CLLS 20.68 31.34 27.37 28.48 29.11 21.51 20.94 12.55 55.25 DRY 14.79 39.95 28.06 21.55 16.71 14.14 34.07 59.07 39.26 9.94 5.06	GROUNDWATER ELEVATION (FT MSL) 1045.77 1022.74 1010.69 1009.61 1061.71 1067.98 1068.38 1066.05 1070.43 DRY 1092.99 1054.92 1077.73 1057.46 1062.35 1064.96 1068.25 1070.97 1062.70 1031.15 1035.03	O. INITIAL ISSUE 09/16/2022 PROJECT FORJECT FORSYTH COUNTY HIGHTOWER ROAD LANDFILL POTENTIOMETRIC SURFACE MAP JUNE 2022
	WELL ID GWC-10A GWC-11 GWC-12 GWC-12A GWC-14A GWC-15 GWC-16A GWC-17 GWC-18 GWC-19R GWC-23 GWC-23A GWC-23A GWC-24 AMW-1 AMW-2 AMW-3	FORSYTH COU JUNE 2 TOTAL WELL DEPTH (FT BTOC) PH 54.30 46.80 40.06 49.44 44.95 28.37 64.75 93.61 62.84 51.05 21.59 52.70 39.87 35.05 32.22 61.67 44.09 180.70 150.00 31.30	NTY - HIGHTOV 2022 SAMPLING TOC ELEVATION (FT MSL) ASE II - IV WE 1066.45 1054.08 1038.06 1038.09 1090.82 1089.49 1089.32 1078.60 1125.68 1136.49 1107.78 1094.87 1107.78 1094.87 1105.79 1079.01 1079.01 1079.06 1079.10 1102.32 1130.04 1101.96 1041.09	WER RD MSWLF EVENT DEPTH TO WATER LEVEL (FT BTOC) LLLS 20.68 31.34 27.37 28.48 29.11 21.51 20.94 12.55 55.25 DRY 14.79 39.95 28.06 21.55 16.71 14.14 34.07 59.07 39.26 9.94	GROUNDWATER ELEVATION (FT MSL) 1045.77 1022.74 1010.69 1009.61 1061.71 1067.98 1068.38 1066.05 1070.43 DRY 1092.99 1054.92 1077.73 1057.46 1062.35 1064.96 1068.25 1070.97 1062.70 1031.15	O. INTIAL ISSUE 09/16/2022 PROJECT PROJECT FORSYTH COUNTY HIGHTOWER ROAD LANDFILL POTENTIOMETRIC SURFACE MAP JUNE 2022 Drawn by: AS Checked by: TG QC by: JUNE 2022
	WELL ID GWC-10A GWC-11 GWC-12 GWC-12A GWC-12A GWC-14 GWC-14 GWC-14R GWC-14R GWC-14R GWC-14R GWC-14R GWC-14R GWC-14 GWC-	FORSYTH COU JUNE 2 TOTAL WELL DEPTH (FT BTOC) PH 54.30 46.80 40.06 49.44 44.95 28.37 64.75 93.61 62.84 51.05 21.59 52.70 39.87 35.05 32.22 61.67 44.09 180.70 150.00 31.30 18.80 23.06	NTY - HIGHTOV 2022 SAMPLING TOC ELEVATION (FT MSL) ASE II - IV WE 1066.45 1054.08 1038.06 1038.09 1090.82 1089.49 1089.32 1078.60 1125.68 1136.49 1107.78 1094.87 1107.78 1094.87 1105.79 1079.01 1079.01 1079.06 1079.10 1102.32 1130.04 1101.96 1041.09 1040.09 1049.32	WER RD MSWLF EVENT DEPTH TO WATER LEVEL (FT BTOC) CLLS 20.68 31.34 27.37 28.48 29.11 21.51 20.94 12.55 55.25 DRY 14.79 39.95 28.06 21.55 16.71 14.14 34.07 59.07 39.26 9.94 5.06 8.51	GROUNDWATER ELEVATION (FT MSL) 1045.77 1022.74 1010.69 1009.61 1061.71 1067.98 1068.38 1066.05 1070.43 DRY 1092.99 1054.92 1077.73 1057.46 1062.35 1064.96 1068.25 1064.96 1068.25 1070.97 1062.70 1031.15 1035.03 1040.81	O. INITIAL ISSUE 09/16/2022 PROJECT FORJECT FORSYTH COUNTY HIGHTOWER ROAD LANDFILL POTENTIOMETRIC SURFACE MAP JUNE 2022

	TOTAL WELL DEPTH (FT BTOC)		ER ROAD MSWL EVENT DEPTH TO WATER LEVEL (FT BTOC)		ATLANTIC COAST CONSULTING, INC. 770-594-5998 www.atlcc.net Roswell, GA Savannah, GA Knoxville, TN 150 0 75 150 300 600 CALE (IN FEET)
PH1-GWA-2	53.60	1183.40	33.56	1149.84	LEGEND:
PH1-GWA-3A PH1-GWA-4	250.00 57.00	1187.16 1191.14	33.35 32.57	1153.81 1158.57	
PH1-GWB-1	53.80	1179.10	38.97	1140.13	EXISTING DESCRIPTION
PH1-GWB-2	42.22	1155.04	22.76	1132.28	850 PROMINENT CONTOUR INTERMEDIATE CONTOUR
PH1-GWC-1 PH1-GWC-2	23.79 127.61	1074.66	10.01 22.30	1064.65 1081.63	PROPERTY BOUNDARY PROPERTY BOUNDARY PROPERTY BOUNDARY
PH1-GWC-3	23.42	1096.96	11.80	1085.16	GROUNDWATER CONTOUR
PH1-GWC-3A	55.42	1096.28	10.87	1085.41	(DASHED WHERE INFERRED) GROUNDWATER FLOW DIRECTION
PH1-GWC-4 GWC-1	33.71 38.80	1124.26 1102.25	26.99 27.51	1097.27 1074.74	GROUNDWATER MONITORING WELL
AMW-8	50.40	1186.23	36.49	1074.74	▲ SWA-1 SURFACE WATER MONITORING POINT
AMW-9	41.69	1162.64	28.83	1133.81	MM-1METHANE MONITORING POINTMV-1METHANE VENT
AMW-10	56.81 PH	1180.73 ASE II – IV WE	42.35	1138.38	● PH1-MV04 EXTRACTION POINT WITH ACTIVE FLARE
GWA-1	62.85	1187.70	53.80	1133.90	
GWA-1A	141.00	1187.49	55.52	1131.97	
GWA-2 GWA-3	52.18 48.86	1137.30 1154.53	37.38 37.38	1099.92 1117.15	
GWC-2	55.61	1103.64	44.50	1059.14	NOTES
GWC-3	39.71	1092.39	32.72	1059.67	1. DEPTHS TO GROUNDWATER MEASURED BY ATLANTIC COAST CONSULTING, INC. JUNE 6,
GWC-3A GWC-4	68.95 49.81	1094.67 1132.82	30.78 41.80	1063.89 1091.02	2022. 2. WELL AND PROBE LOCATIONS ARE APPROXIMATE AND BASED ON W.L. JORDEN & CO.
GWC-4A	89.23	1132.39	38.95	1093.44	DRAWINGS DATED MARCH 3, 1996. 3. SURVEY IS PROVIDED BY APPALACHIAN SURVEYING COMPANY IN CUMMING, GEORGIA
GWC-5	49.91	1084.55	45.69	1038.86	DATED JANUARY AND APRIL 1998. CONTROL POINT COORDINATES WERE TAKEN FROM THESE SURVEYS.
GWC-6 GWC-7	34.52 54.21	1064.01 1093.44	25.29 40.12	1038.72 1053.32	4. LOCATIONS OF MM-1R, MM-13, MM-14, AND MM-15 ARE APPROXIMATE. 5. LOCATIONS OF AMW-2 AND AMW-3 ARE APPROXIMATE.
GWC-8	27.53	1095.63	18.96	1076.67	 GWA-1A, GWC-4A, GWC-23A, AMW-2 AND AMW-9 ARE NOT USED FOR POTENTIOMETRIC CONTOURS. POTENTIOMETRIC CONTOUR INTERVAL IS 10 FEET.
GWC-8A	46.71	1095.44	17.97	1077.47	 8. FT BTOC = FEET BELOW CASING; FT MSL = FEET MEAN SEA LEVEL; AND FT BGS = FEET BELOW GROUND SURFACE; NA = NOT APPLICABLE.
GWC-8R GWC-9	94.67 60.50	1098.40 1093.58	20.68	1077.72	
GWC-10	37.51	1068.56	20.20	1048.36	
MONITORING WELL ID	TOTAL WELL DEPTH (FT BTOC) PH/	NTY - HIGHTO 022 SAMPLING TOC ELEVATION (FT MSL)	WER RD MSWLF EVENT DEPTH TO WATER LEVEL (FT BTOC)	GROUNDWATER ELEVATION (FT MSL)	REVISIONS O. INITIAL ISSUE O9/16/2022
GWC-10A GWC-11	54.30 46.80	1066.45 1054.08	20.68 31.34	1045.77 1022.74	
GWC-12	40.06	1038.06	27.37	1010.69	PROJECT
GWC-12A GWC-13	49.44	1038.09 1090.82	28.48	1009.61 1061.71	
GWC-13 GWC-14	44.95 28.37	1090.82	29.11 21.51	1067.98	
GWC-14A	64.75	1089.32	20.94	1068.38	
GWC-14R	93.61	1078.60	12.55	1066.05	BEORSY THE
GWC-15 GWC-16A	62.84 51.05	1125.68 1136.49	55.25 DRY	1070.43 DRY	Your Community. Your Future.
GWC-17	21.59	1107.78	14.79	1092.99	FORSYTH COUNTY
GWC-18	52.70	1094.87	39.95	1054.92	HIGHTOWER ROAD LANDFILL
GWC-19R GWC-22	39.87 35.05	1105.79 1079.01	28.06 21.55	1077.73 1057.46	
GWC-23	32.22	1079.06	16.71	1062.35	DOTENTIONAETDIC CLIDEACE NAAD
GWC-23A	61.67	1079.10	14.14	1064.96	POTENTIOMETRIC SURFACE MAP
GWC-24 AMW-1	44.09 180.70	1102.32 1130.04	34.07 59.07	1068.25 1070.97	JUNE 2022
AMW-2	150.00	1101.96	39.26	1062.70	
AMW-3	31.30	1041.09	9.94	1031.15	Drawn by: Checked by: QC by:
AMW-4 AMW-5	18.80 23.06	1040.09 1049.32	5.06 8.51	1035.03 1040.81	AS TG WP
AMW-11R	58.10	1053.63	8.33	1045.30	PROJECT NUMBER: FIGURE:
AMW-12	19.56	1056.85	7.49	1049.36	
AMW-12R AMW-13	46.43 36.18	1056.34 1093.09	9.69 29.58	1046.65 1063.51	G020~113 1
AMW-14	21.70	1052.73	10.03	1042.70	
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