



***A solid approach for
a cleaner environment.***

June 23, 2025

Transmitted via GEOS
Submittal ID: 935590

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 – Second Quarter 2025
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 June 16, 2025, 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.

The new radio tower building on site (added per GEOS Submittal 931622) was monitored this event.

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.

Sincerely,

ATLANTIC COAST CONSULTING, INC.

Charles Adams, P.G.
Project Manager

Attachments

cc: Samuel Buckles with attachments via email.
Operating Record via FedEx: 882226671566

ATTACHMENT

SWM-19 FORM AND POTENTIOMETRIC MAP

Periodic Methane Monitoring Report

Second Quarter / 2025

Quarter or Month / Year

Facility Name:	Hightower Road Landfill	Date(s) of Monitoring:	6/16/2025
Facility Permit #'s:	058-006D(SL), 058-009D(SL)	Monitoring Conducted by:	H. Auld, E. Smith
Permit #'s (cont):	058-010D(SL)	Equipment Field Calibrated by:	H. Auld, E. Smith
County (Location):	Forsyth	Date of Field Calibration:	6/16/2025
Monitoring Equipment:	GX-2012	Manufacturer Calibration/Service Date:	1/6/2025

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

<u>Monitoring Point Identification</u>			<u>Monitoring Point Identification</u>		
<u>Monitoring Results</u>			<u>Monitoring Results</u>		
MM-1R	% Methane By Volume:	0.0%	MM-6	% Methane By Volume:	0.0%
Well	% Oxygen:	19.0%	Well	% Oxygen:	18.9%
	Time Sampled:	14:04		Time Sampled:	14:59
MM-2	% Methane By Volume:	0.0%	MM-7	% Methane By Volume:	0.0%
Well	% Oxygen:	16.1%	Well	% Oxygen:	20.9%
	Time Sampled:	14:17		Time Sampled:	15:17
MM-3	% Methane By Volume:	0.0%	MM-8	% Methane By Volume:	0.0%
Well	% Oxygen:	18.5%	Well	% Oxygen:	20.9%
	Time Sampled:	13:58		Time Sampled:	15:41
MM-4	% Methane By Volume:	0.0%	MM-9	% Methane By Volume:	0.0%
Well	% Oxygen:	19.1%	Well	% Oxygen:	20.2%
	Time Sampled:	13:50		Time Sampled:	15:36
MM-5	% Methane By Volume:	0.0%	MM-10	% Methane By Volume:	0.0%
Well	% Oxygen:	16.3%	Well	% Oxygen:	18.8%
	Time Sampled:	14:00		Time Sampled:	15:31

a. Permanent Approved COMPLIANCE Monitoring Locations (continued)

<u>Monitoring Point Identification</u>	<u>Monitoring Results</u>		<u>Monitoring Point Identification</u>	<u>Monitoring Results</u>	
MM-11R	% Methane By Volume:	0.0%	MM-14	% Methane By Volume:	0.0%
BHP	% Oxygen:	20.9%	Well	% Oxygen:	20.9%
	Time Sampled:	15:47		Time Sampled:	14:25
MM-13	% Methane By Volume:	0.0%	MM-15	% Methane By Volume:	0.0%
Well	% Oxygen:	20.2%	Well	% Oxygen:	20.9%
	Time Sampled:	14:30		Time Sampled:	14:21

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

<u>Facility Structure</u>	<u>Monitoring Results</u>		<u>Facility Structure</u>	<u>Monitoring Results</u>	
Tower Building	% LEL:		N/A	% LEL:	
	% Methane by Volume:	0.0%		% Methane by Volume:	
	% Oxygen:	20.9%		% Oxygen:	
	Time Sampled:	14:52		Time Sampled:	

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

<u>Monitoring Point Identification</u>	<u>Monitoring Results</u>		<u>Monitoring Point Identification</u>	<u>Monitoring Results</u>	
MV-11	% Methane By Volume:	0.0%	N/A	% Methane By Volume:	
Vent	% Oxygen:	20.9%		% Oxygen:	
	Time Sampled:	15:25		Time Sampled:	

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

<u>Off-Site Structure</u>	<u>Monitoring Results</u>		<u>Off-Site Structure</u>	<u>Monitoring Results</u>	
N/A	% LEL:		N/A	% LEL:	
	% Methane by Volume:			% Methane by Volume:	
	% Oxygen:			% Oxygen:	
	Time Sampled:			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, wind 10 mph
- c. Temperature: 86
- d. Barometric Conditions: Rising Falling Steady **X** Reading: 28.99
- e. Relative Humidity 10-90%? Yes **X** No Range: 57-61%
- f. Condition/Access: Sampling points are properly identified, secured, and maintained?
Yes **X** No

If no, please list deficiencies observed:

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

New radio tower building on site added per GEOS Submittal 931622.

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

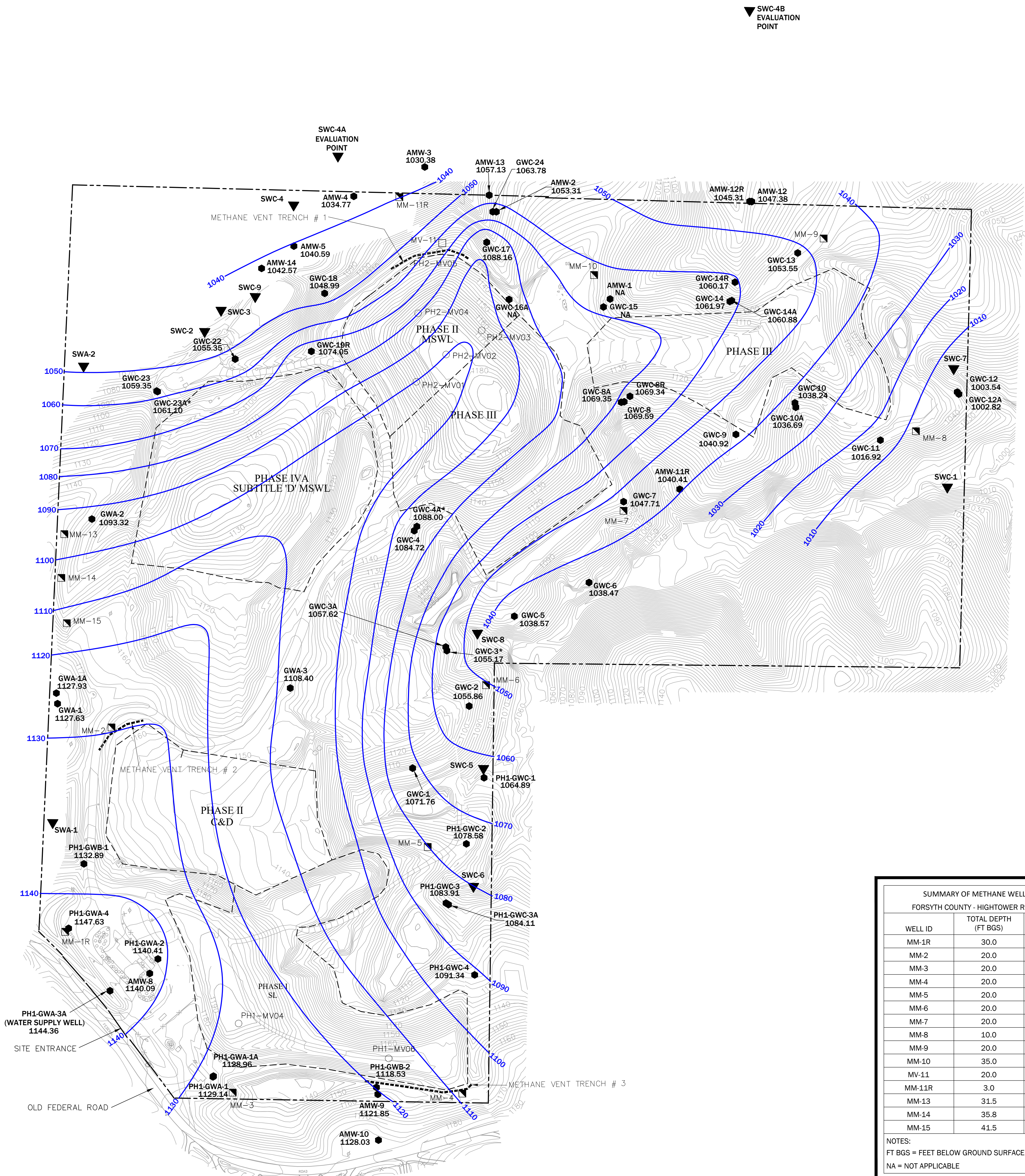
(Title)

6/20/2025

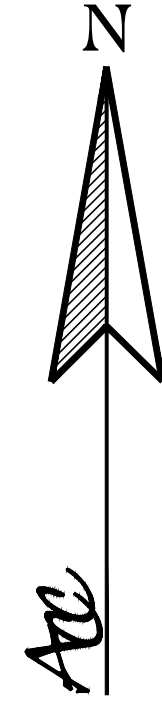
(Date)

Charles B. Adams, 11545 Wills Road, Suite 100, Alpharetta, GA 30009, (770) 594-5998

(Typed Name, Address, and Telephone Number)



SWC-4B
EVALUATION
POINT



atcc

SUMMARY OF METHANE WELL DETAILS		
FORSYTH COUNTY - HIGHTOWER ROAD MSWLF		
WELL ID	TOTAL DEPTH (FT BGS)	SCREEN INTERVAL (FT BGS)
MM-1R	30.0	10.0 - 30.0
MM-2	20.0	10.0 - 20.0
MM-3	20.0	10.0 - 20.0
MM-4	20.0	10.0 - 20.0
MM-5	20.0	10.0 - 20.0
MM-6	20.0	10.0 - 20.0
MM-7	20.0	10.0 - 20.0
MM-8	10.0	5.0 - 10.0
MM-9	20.0	10.0 - 20.0
MM-10	35.0	25.0 - 35.0
MV-11	20.0	10.0 - 20.0
MM-11R	3.0	NA
MM-13	31.5	20.4 - 30.4
MM-14	35.8	24.7 - 34.7
MM-15	41.5	30.4 - 40.4

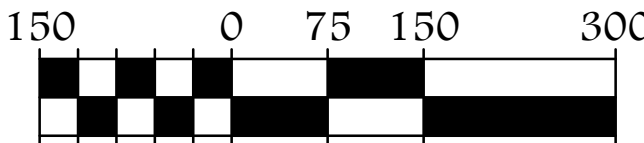
NOTES:
FT BGS = FEET BELOW GROUND SURFACE
NA = NOT APPLICABLE

SUMMARY OF GROUNDWATER ELEVATION DATA				
FORSYTH COUNTY - HIGHTOWER ROAD MSWLF				
DECEMBER 2024 SAMPLING EVENT				
MONITORING WELL ID	TOTAL WELL DEPTH (FT BTOC)	TOC ELEVATION (FT MSL)	DEPTH TO WATER LEVEL (FT BTOC)	GROUNDWATER ELEVATION (FT MSL)
PHASE I GROUNDWATER ELEVATION DATA				
PH1-GWA-1	48.66	1176.37	47.23	1129.14
PH1-GWA-1A	108.00	1176.35	47.39	1128.96
PH1-GWA-2	53.60	1183.40	42.99	1140.41
PH1-GWA-3A	250.00	1187.16	42.80	1144.36
PH1-GWA-4	57.00	1191.14	43.51	1147.63
PH1-GWB-1	53.80	1179.10	46.21	1132.89
PH1-GWB-2	42.22	1155.04	36.51	1118.53
PH1-GWC-1	23.79	1074.66	9.77	1064.89
PH1-GWC-2	127.61	1103.93	25.35	1078.58
PH1-GWC-3	23.42	1096.96	13.05	1083.91
PH1-GWC-3A	55.42	1096.28	12.17	1084.11
PH1-GWC-4	33.71	1124.26	32.92	1091.34
GWC-1	38.80	1102.25	30.49	1071.76
AMW-8	50.40	1186.23	46.14	1040.09
AMW-9	41.69	1162.64	40.79	1121.85
AMW-10	56.81	1180.73	52.70	1128.03
MONITORING WELL ID	TOTAL WELL DEPTH (FT BTOC)	TOC ELEVATION (FT MSL)	DEPTH TO WATER LEVEL (FT BTOC)	GROUNDWATER ELEVATION* (FT MSL)
PHASE II, III, AND IV GROUNDWATER ELEVATION DATA				
GWA-1	62.85	1187.70	60.07	1127.63
GWA-1A	141.00	1187.49	59.56	1127.93
GWA-2	52.18	1137.30	43.98	1093.32
GWA-3	48.86	1154.53	46.13	1108.40
GWC-2	55.61	1103.64	47.78	1055.86
GWC-3	39.71	1092.39	37.22	1055.17
GWC-3A	68.95	1094.67	37.05	1057.62
GWC-4	49.81	1132.82	48.10	1084.72
GWC-4A	89.23	1132.39	44.39	1088.00
GWC-5	49.91	1084.55	45.98	1038.57
GWC-6	34.52	1064.01	25.54	1038.47
GWC-7	54.21	1093.44	45.73	1047.71
GWC-8	27.53	1095.63	26.04	1069.59
GWC-8A	46.71	1095.44	26.09	1069.35
GWC-8R	94.67	1098.40	29.06	1069.34
GWC-9	60.50	1093.58	52.66	1040.92
GWC-10	37.51	1068.56	30.32	1038.24
GWC-10A	54.30	1066.45	29.76	1036.69
GWC-11	46.80	1054.08	37.16	1016.92
GWC-12	40.06	1038.06	34.52	1003.54
GWC-12A	49.44	1038.09	35.27	1002.82
GWC-13	44.95	1090.82	37.27	1053.55
GWC-14	28.37	1089.49	27.52	1061.97
GWC-14A	64.75	1089.32	28.44	1060.88
GWC-14R	93.61	1078.60	18.43	1060.17
GWC-15	62.84	1125.68	DRY	DRY
GWC-16A	51.05	1136.49	DRY	DRY
GWC-17	21.59	1107.78	19.62	1088.16
GWC-18	52.70	1094.87	45.88	1048.99
GWC-19R	39.87	1105.79	31.74	1074.05
GWC-22	35.05	1079.01	23.66	1055.35
GWC-23	32.22	1079.06	19.71	1059.35
GWC-23A	61.67	1079.10	18.00	1061.10
GWC-24	44.09	1102.32	38.54	1063.78
AMW-1	180.70	1130.04	DRY	DRY
AMW-2	150.00	1101.96	DRY	DRY
AMW-3	31.30	1041.09	10.71	1030.38
AMW-4	18.80	1040.09	5.32	1034.77
AMW-5	23.06	1049.32	8.73	1040.59
AMW-11R	58.10	1053.63	13.22	1040.41
AMW-12	19.56	1056.85	9.47	1047.38
AMW-12R	46.43	1056.34	11.03	1045.31
AMW-13	36.18	1093.09	35.96	1057.13
AMW-14	21.70	1052.73	10.16	1042.57

NOTES:
DEPTHS TO WATER MEASURED DECEMBER 2, 2024.
FT BTOC = FEET BELOW TOP OF CASING
FT MSL = FEET MEAN SEA LEVEL
TOC = TOP OF CASING



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ATLANTIC COAST
CONSULTING, INC.
770-594-5998
www.atfcc.net
Roswell, GA
Savannah, GA
Knoxville, TN



SCALE (IN FEET)

LEGEND

EXISTING	DESCRIPTION
850	PROMINENT TOPOGRAPHIC CONTOUR
---	INTERMEDIATE TOPOGRAPHIC CONTOUR
---	PROPERTY BOUNDARY
---	APPROXIMATE LIMIT OF WASTE
---	SURFACE WATER/POND
---	GROUNDWATER CONTOUR
---	GROUNDWATER FLOW DIRECTION
● GWA-1 1002.23	GROUNDWATER MONITORING WELL
▼ SWA-1	ELEVATION IN FEET MEAN SEA LEVEL
□ MM-1	SURFACE WATER MONITORING POINT
□ MV-1	METHANE MONITORING POINT
---	METHANE VENT
---	METHANE VENT TRENCH
○ PH1-MV04	EXTRACTION POINT WITH FLARE

NOTES

- SURVEY IS PROVIDED BY APPALACHIAN SURVEYING COMPANY IN CUMMING, GEORGIA DATED JANUARY AND APRIL 1998. CONTROL POINT COORDINATES WERE TAKEN FROM THESE SURVEYS.
- WELL AND PROBE LOCATIONS ARE APPROXIMATE AND BASED ON W.L. JORDEN & CO. DRAWINGS DATED MARCH 3, 1996.
- GWC-3*, GWC-4A*, GWC-23A*, and AMW-2* ARE NOT USED FOR POTENTIOMETRIC CONTOURS.
- POTENTIOMETRIC CONTOUR INTERVAL IS 10 FEET.

REVISIONS

0. INITIAL ISSUE 01/06/2025

PROJECT



FORSYTH COUNTY
HIGHTOWER ROAD LANDFILL

POTENTIOMETRIC
SURFACE MAP
DECEMBER 2024

Drawn by:
JB

Checked by:
CA

QC by:
SK

PROJECT NUMBER:

G020-113

FIGURE:

1

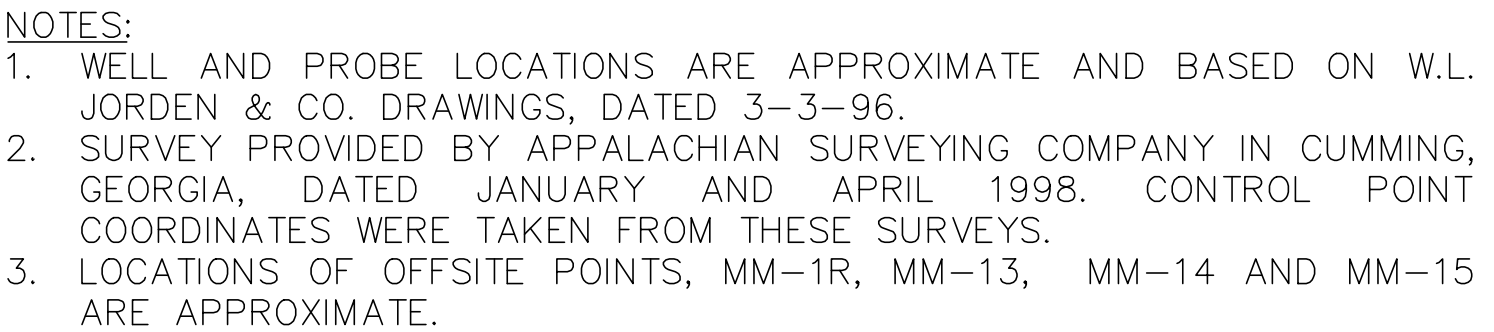


Initial Issue	08/01/2007
Revision for Radio Tower Site - Updated to Reflect Current Conditions	06/05/2025

PROJECT NUMBER:

July 2007

SHEET 1 OF 2



	EXISTING CONTOUR
	EXISTING STREAMS
	PROPERTY LINE
	WASTE UNIT BOUNDARY
	GROUNDWATER MONITORING WELL
	SURFACE WATER MONITORING POINT
	METHANE MONITORING POINT
	METHANE VENT
	EXISTING OUT OF REFUSE METHANE VENT TRENCH (APPROXIMATE LOCATION)
	PROPOSED FENCE
	PHASE 2 METHANE VENT