

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: Bishop Road Landfill Fire

TDD No.: TT-01-0106

From: 11/16/18
10:10

To: 11/16/18
19:59



Location 1 - Located on the southern adjacent property, nearest to the fire

Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
Area Rae 1	VOC	No	10,276	9,765	0 - 2.4 ppm	0.8 ppm	1 ppm
	CO	No	3,456	1,392	0 - 11.1 ppm	0.6 ppm	83 ppm
	H ₂ S	No	10,272	210	0 - 0.1 ppm	0 ppm	0.5 ppm
	O ₂	No	3,456	3,435	20.2 - 20.9%	20.5%	<19.5 or >23%
	LEL	No	3,456	0	0 - 0%	0%	10%
DustTrak 1	PM-2.5	Unhealthy for Sensitive Populations	10,985	10,970	0 - 120 µg/m ³	36.4 µg/m ³	See SOG #: T106

Location 2 - Located on the northern adjacent residential property, in a valley

Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
Area Rae 2	VOC	No	10,386	3	0 - 0.1 ppm	0 ppm	1 ppm
	CO	No	3,480	451	0 - 2 ppm	0 ppm	83 ppm
	H ₂ S	No	10,378	0	0 - 0 ppm	0 ppm	0.5 ppm
	O ₂	No	3,480	3,461	20.5 - 21.6%	20.9%	<19.5 or >23%
	LEL	No	3,480	0	0 - 0 %	0%	10%
DustTrak 2	PM-2.5	Moderate	5,517	5,517	2 - 78 µg/m ³	13.5 µg/m ³	See SOG #: T106

Location 3 - Located approximately 1-mile north of the site, near the 7200 block of Bishop Road, and served as the background

Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
Area Rae 3	VOC	No	8,749	9	0 - 0.1 ppm	0 ppm	1 ppm
	CO	No	2,931	2,050	0 - 6.2 ppm	0.6 ppm	83 ppm
	H ₂ S	No	8,739	135	0 - 0.1 ppm	0 ppm	0.5 ppm
	O ₂	No	2,931	2,911	20.9 - 20.9%	20.9%	<19.5 or >23%
	LEL	No	2,931	0	0 - 0%	0%	10%
DustTrak 3	PM-2.5	Good	8,823	8,823	7 - 57 µg/m ³	9.3 µg/m ³	See SOG #: T106

Notes:

- % Percent
- < Less than
- > Greater than
- AEGL Acute Exposure Guideline levels for airborne chemicals
- CO Carbon monoxide
- H₂S Hydrogen Sulfide
- LEL Lower Explosive Level
- min Minute
- O₂ Oxygen
- PEL Permissible exposure limit
- ppm Part per million
- PM Particulate matter
- SOG Standard Operating Guidelines
- TLV Threshold limit value
- µg/m³ Micrograms per cubic meter
- VOC Volatile organic compound

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Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
Area Rae 1	VOC	No	13,260	13,246	0.6 - 4.5 ppm	2.8 ppm	1 ppm
	CO	No	4,508	1,210	0 - 10 ppm	0.3 ppm	83 ppm
	H ₂ S	No	13,236	9,986	0 - 0.2 ppm	0.1 ppm	0.5 ppm
	O ₂	No	4,508	4,468	19.7 - 20.3%	20%	<19.5 or >23%
	LEL	No	4,508	0	0 - 0%	0%	10%
DustTrack 1	PM-2.5	Unhealthy for Sensitive Populations	13,378	13,378	3 - 203 µg/m ³	41.2 µg/m ³	See SOG #: T106

Location 2 - Located on the northern adjacent residential property, in a valley

Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
Area Rae 2	VOC	No	10,412	0	0 - 0 ppm	0 ppm	1 ppm
	CO	No	3,484	377	0 - 1.2 ppm	0 ppm	83 ppm
	H ₂ S	No	10,394	0	0 - 0 ppm	0 ppm	0.5 ppm
	O ₂	No	3,484	3,443	20.4 - 21.6%	20.7%	<19.5 or >23%
	LEL	No	3,484	0	0 - 0 %	0%	10%
DustTrack 2	PM-2.5	Moderate	11,872	11,872	1 - 708 µg/m ³	20 µg/m ³	See SOG #: T106

Location 3 - Located approximately 1-mile north of the site, near the 7200 block of Bishop Road, and served as the background

Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
Area Rae 3	VOC	No	11,822	0	0 - 0 ppm	0 ppm	1 ppm
	CO	No	3,954	3,615	0 - 6 ppm	0.8 ppm	83 ppm
	H ₂ S	No	11,798	7,871	0 - 0.2 ppm	0.1 ppm	0.5 ppm
	O ₂	No	3,954	3,912	20.6 - 20.9%	20.9%	<19.5 or >23%
	LEL	No	3,954	0	0 - 0%	0%	10%
DustTrack 3	PM-2.5	Good	2,403	765	0 - 83 µg/m ³	3.4 µg/m ³	See SOG #: T106

Notes:

- % Percent
- < Less than
- > Greater than
- AEGL Acute Exposure Guideline levels for airborne chemicals
- CO Carbon monoxide
- H₂S Hydrogen Sulfide
- LEL Lower Explosive Level
- min Minute
- O₂ Oxygen
- PEL Permissible exposure limit
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- SOG Standard Operating Guidelines
- TLV Threshold limit value
- µg/m³ Micrograms per cubic meter
- VOC Volatile organic compound

Air Monitoring Summary Tables

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Project Name: Bishop Road Landfill Fire

TDD No.: TT-01-0106

From: 11/17/18
8:00

To: 11/17/18
19:59



Location 1 - Located on the southern adjacent property, nearest to the fire

Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
Area Rae 1	VOC	No	13,308	8,852	0 - 4.5 ppm	0.8 ppm	1 ppm
	CO	No	4,466	705	0 - 7.3 ppm	0.1 ppm	83 ppm
	H ₂ S	No	13,296	2,975	0 - 0.2 ppm	0 ppm	0.5 ppm
	O ₂	No	4,466	4,430	19.8 - 21.7%	21.4%	<19.5 or >23%
	LEL	No	4,466	0	0 - 0%	0%	10%
DustTrak 1	PM-2.5	Unhealthy for Sensitive Populations	13,416	13,416	6 - 81 µg/m ³	24.7 µg/m ³	See SOG #: T106

Location 2 - Located on the northern adjacent residential property, in a valley

Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
Area Rae 2	VOC	No	15,964	12	0 - 5.1 ppm	0 ppm	1 ppm
	CO	No	5,338	2,988	0 - 6 ppm	0.4 ppm	83 ppm
	H ₂ S	No	15,944	0	0 - 0 ppm	0 ppm	0.5 ppm
	O ₂	No	5,338	5,291	20.3 - 21.4%	20.7%	<19.5 or >23%
	LEL	No	5,338	0	0 - 0 %	0%	10%
DustTrak 2	PM-2.5	Moderate	14,845	14,842	0 - 245 µg/m ³	26.7 µg/m ³	See SOG #: T106

Location 3 - Located approximately 1-mile north of the site, near the 7200 block of Bishop Road, and served as the background

Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
Area Rae 3	VOC	No	14,570	36	0 - 0.3 ppm	0 ppm	1 ppm
	CO	No	4,866	4,106	0 - 15.2 ppm	1.6 ppm	83 ppm
	H ₂ S	No	14,544	3,006	0 - 0.2 ppm	0 ppm	0.5 ppm
	O ₂	No	4,866	4,825	21.3 - 22.1%	21.7%	<19.5 or >23%
	LEL	No	4,866	0	0 - 0%	0%	10%
DustTrak 3	PM-2.5	Good	24,853	24,853	2 - 180 µg/m ³	13.7 µg/m ³	See SOG #: T106

Notes:

- % Percent
- < Less than
- > Greater than
- AEGL Acute Exposure Guideline levels for airborne chemicals
- CO Carbon monoxide
- H₂S Hydrogen Sulfide
- LEL Lower Explosive Level
- min Minute
- O₂ Oxygen
- PEL Permissible exposure limit
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20:00

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7:59



Location 1 - Located on the southern adjacent property, nearest to the fire

Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
Area Rae 1	VOC	No	26,513	22,043	0 - 4.5 ppm	1.3 ppm	1 ppm
	CO	No	8,885	1,199	0 - 11 ppm	0.1 ppm	83 ppm
	H ₂ S	No	26,479	12,144	0 - 0.6 ppm	0.1 ppm	0.5 ppm
	O ₂	No	8,885	8,809	19.8 - 21.7%	21.2%	<19.5 or >23%
	LEL	No	8,885	0	0 - 0%	0%	10%
DustTrak 1	PM-2.5	Unhealthy for Sensitive Populations	26,752	26,752	6 - 97 µg/m ³	29.4 µg/m ³	See SOG #: T106

Location 2 - Located on the northern adjacent residential property, in a valley

Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
Area Rae 2	VOC	No	29,191	12	0 - 5.1 ppm	0 ppm	1 ppm
	CO	No	9,761	6,300	0 - 6 ppm	0.8 ppm	83 ppm
	H ₂ S	No	29,153	0	0 - 0 ppm	0 ppm	0.5 ppm
	O ₂	No	9,761	9,678	20.3 - 21.4%	20.7%	<19.5 or >23%
	LEL	No	9,761	0	0 - 0 %	0%	10%
DustTrak 2	PM-2.5	Moderate	28,215	28,212	0 - 245 µg/m ³	40.3 µg/m ³	See SOG #: T106

Location 3 - Located approximately 1-mile north of the site, near the 7200 block of Bishop Road, and served as the background

Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
Area Rae 3	VOC	No	27,708	36	0 - 0.3 ppm	0 ppm	1 ppm
	CO	No	9,254	7,921	0 - 15.2 ppm	1.1 ppm	83 ppm
	H ₂ S	No	27,656	7,912	0 - 0.2 ppm	0 ppm	0.5 ppm
	O ₂	No	9,254	9,167	21.3 - 22.1%	21.6%	<19.5 or >23%
	LEL	No	9,254	0	0 - 0%	0%	10%
DustTrak 3	PM-2.5	Good	38,154	38,151	0 - 180 µg/m ³	18.1 µg/m ³	See SOG #: T106

Notes:

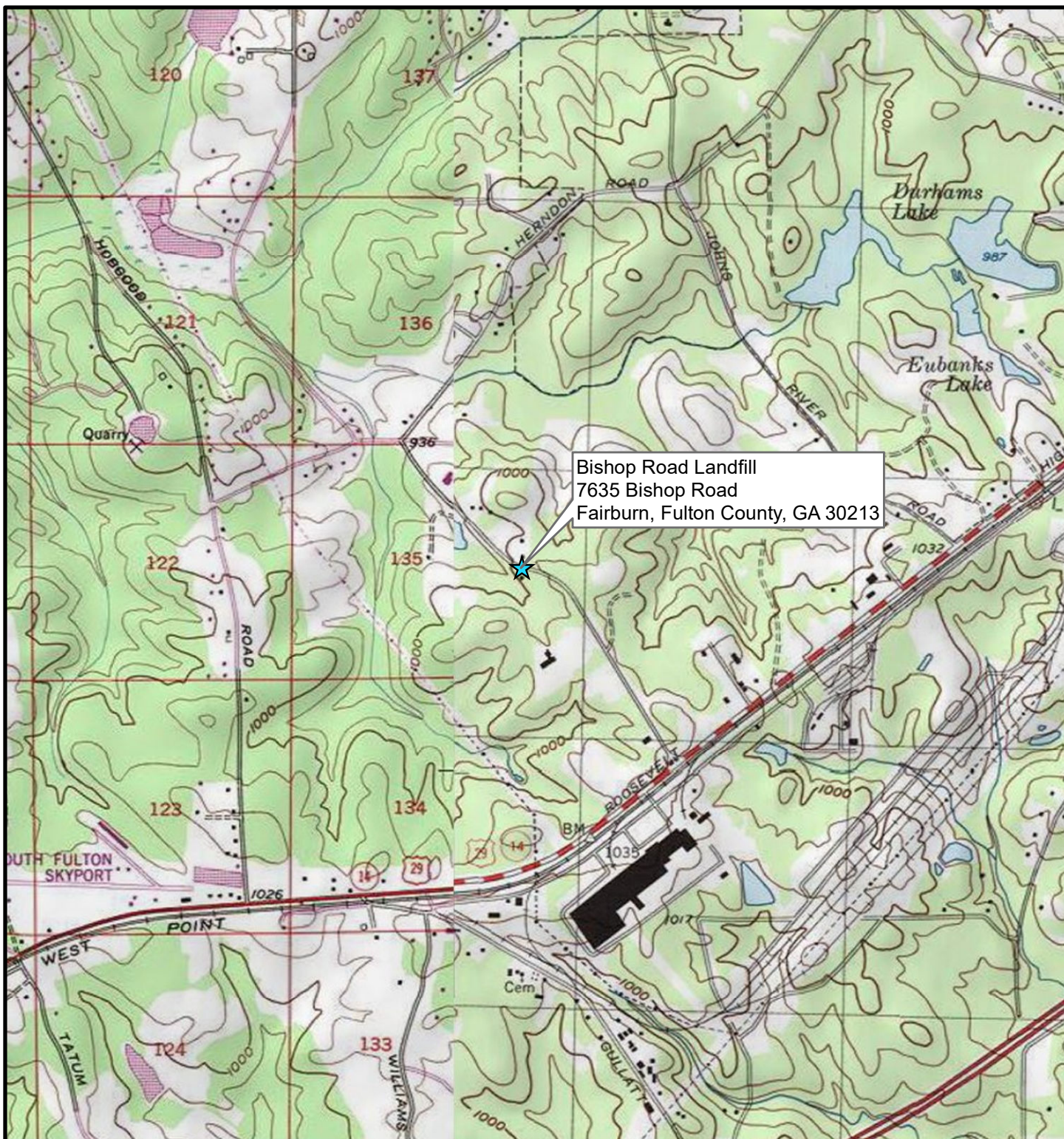
- % Percent
- < Less than
- > Greater than
- AEGL Acute Exposure Guideline levels for airborne chemicals
- CO Carbon monoxide
- H₂S Hydrogen Sulfide
- LEL Lower Explosive Level
- min Minute
- O₂ Oxygen
- PEL Permissible exposure limit
- ppm Part per million
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- SOG Standard Operating Guidelines
- TLV Threshold limit value
- µg/m³ Micrograms per cubic meter
- VOC Volatile organic compound

BISHOP ROAD LANDFILL FIRE
NOVEMBER 17-18, 2018 AIR SAMPLE RESULTS

Analyte	EPA RSLs	Location 1 ^a	Location 2 ^b	BRLF Field Blank <i>Air Flow (Volume)</i>
		BRLF-111718-01	BRLF-111818-02	
		<i>Air Flow (Volume)</i>	<i>Air Flow (Volume)</i>	
Formaldehyde (µg/m³)		526.4 Liters	517.86 Liters	NA
Formaldehyde	0.22	1.80 J	1.81 J	0.547 J
Metals (µg/m³)		774.25 Liters	796.88 Liters	NA
Aluminum	5.2	0.79	0.66	0.63
Barium	0.52	0.15	0.15	0.11
Calcium	NL	53.1	48.3	49.4
Iron	NL	1.54	1.40	1.14
Magnesium	NL	10.4	9.46	8.20
Sodium	14	10.2	9.96	8.14
Zinc	NL	0.46	0.38 U	0.30 U
Phosgene (µg/m³)		539.68 Liters	537.66 Liters	NA
Phosgene	0.31	0.320 J	0.361 J	0.201 U
Target Compounds (µg/m³)		NA	NA	NA
1,2,4-Trimethylbenzene	63	1.13	1.35	NA
2,2,4-trimethylpentane	NL	0.835	0.689	NA
Acetone	32,000	21.3	9.16	NA
Acetonitrile	63	3.59	0.885	NA
Acrolein	0.021	0.540	0.497	NA
Benzene	0.36	10.5	1.410	NA
Carbon disulfide	730	0.581	0.432 U	NA
Chloromethane	94	1.73	1.19	NA
Cyclohexane	6300	1.45	0.605	NA
Ethanol	NL	8.18	7.13	NA
Ethyl acetate	73	4.35	2.41	NA
Ethylbenzene	1.1	1.76	0.579	NA
Freon 11 (CCl ₃ F ₃)	NL	3.13	1.49	NA
Freon 12 (CCl ₂ F ₂)	NL	2.26	2.05	NA
Heptane	420	2.55	0.917	NA
Hexane	730	3.4	1.21	NA
Isopropyl alcohol	NL	1.18	0.611	NA
m-/p-Xylenes	100	3.96	1.89	NA
Methyl ethyl ketone (2-Butanone)	5,200	5.23	1.48	NA
Methylene chloride	100	0.908	0.487	NA
Naphthalene	0.083	1.52	0.750 U	NA
o-Xylene	100	1.48	0.815	NA
Propylene	3,100	5.08	1.50	NA
Styrene	1,000	0.598	0.574 U	NA
Tetrachloroethene	11	1.56	0.946 U	NA
Tetrahydrofuran	2,100	2.38	0.412 U	NA
Toluene	5,200	11.6	2.74	NA

Notes:

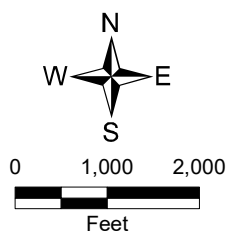
^a	Location 1 was placed on the adjacent property, downwind and as close to the plume as possible.
^b	Location 2 was placed approximately one mile upwind of the plume, near the 7200 block of Bishop Road, and served as the background sample.
BRLF	Bishop's Road Landfill Fire
EPA	Environmental Protection Agency
J	The identification of the analyte is acceptable; the reported value is an estimate
µg/m³	Micrograms per meter cubed
NA	Not Analysed
ND	Not Detected
NL	No Limit
RSLs	Regional Screening Levels November 2018 EPA
U	The analyte was not detected at or above the reporting limit
UJ	The analyte was not detected at or above the reporting limit; which is considered approximate due to deficiencies in one or more quality control criteria
BOLD	Shaded and bolded values exceed the November 2018 EPA RSLs



Bishop Road Landfill
7635 Bishop Road
Fairburn, Fulton County, GA 30213

Legend

★ Site Location



Map Source:
USGS 7.5 Minute Topographic Quadrangle Maps:
Palmetto, GA 1981, Fairburn, GA 1981



United States
Environmental Protection Agency
Region 4

FIGURE 1

Site Location

TDD Name: Bishop Road Landfill Fire
TDD No.: TT-01-106
City: Fairburn **County:** Fulton **State:** Georgia



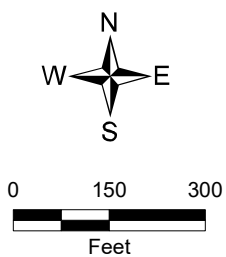
TETRA TECH

Date: 2/4/2019
Analyst: katie.wise

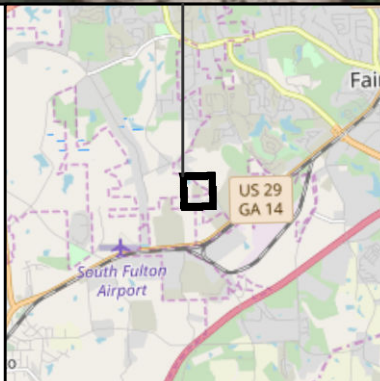


Legend

 Site Boundary



Map Source:
ESRI World Imagery



United States
Environmental Protection Agency
Region 4

FIGURE 2

Site Layout

TDD Name: Bishop Road Landfill Fire
TDD No.: TT-01-106
City: Fairburn **County:** Fulton **State:** Georgia





TETRA TECH

Date:
2/4/2019
Analyst:
katie.wise



Legend

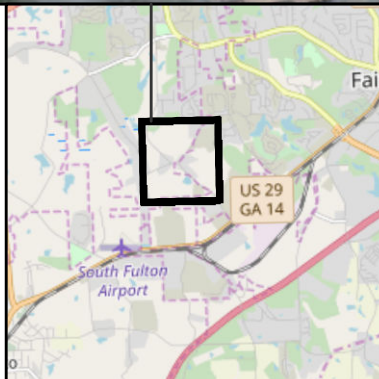
-  Air Monitoring Location
-  Site Boundary

Location 3 - Located approximately 1-mile north of the site, near 7200 block of Bishop Road, and served as the background.

Map Source:
ESRI World Imagery



0 400 800
Feet



United States
Environmental Protection Agency
Region 4

FIGURE 3

Air Monitoring Locations

TDD Name: Bishop Road Landfill Fire
TDD No.: TT-01-106
City: Fairburn **County:** Fulton **State:** Georgia




TETRA TECH

Date: 2/4/2019
Analyst: katie.wise



Legend

 Air Sampling Location

 Site Boundary

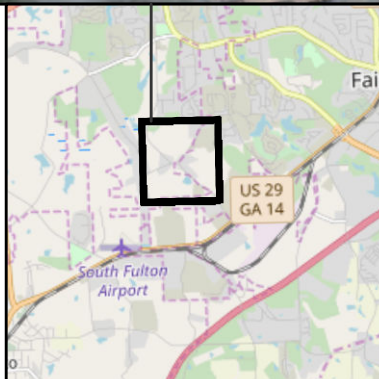
Location 1 was placed on the adjacent property, downwind and as close to the plume as possible.

Location 2 was placed approximately 1-mile upwind of the plume, near the 7200 block of Bishop Road, and served as the background sample.

Map Source:
ESRI World Imagery



0 400 800
Feet



United States
Environmental Protection Agency
Region 4

FIGURE 4

Air Sampling Locations

TDD Name: Bishop Road Landfill Fire

TDD No.: TT-01-106

City:
Fairburn

County:
Fulton

State:
Georgia



TETRA TECH

Date:
2/4/2019
Analyst:
katie.wise