



Blalock, Susan &lt;susan.blalock@deq.virginia.gov&gt;

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**Fwd: Semi-Monthly Daily LFG Well Temperature Update**

1 message

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**Bazyk, Crystal** <crystal.bazyk@deq.virginia.gov>  
To: Susan Blalock <susan.blalock@deq.virginia.gov>

Tue, Nov 1, 2022 at 5:06 PM

----- Forwarded message -----

From: **King, Brandon** <BKing@scsengineers.com>

Date: Tue, Nov 1, 2022 at 4:54 PM

Subject: Semi-Monthly Daily LFG Well Temperature Update

To: crystal.bazyk@deq.virginia.gov &lt;crystal.bazyk@deq.virginia.gov&gt;, hall.kristen@epa.gov &lt;hall.kristen@epa.gov&gt;, jeff.hurst@deq.virginia.gov &lt;jeff.hurst@deq.virginia.gov&gt;, willard.erinm@epa.gov &lt;willard.erinm@epa.gov&gt;, stacy.bowers@deq.virginia.gov &lt;stacy.bowers@deq.virginia.gov&gt;, David Cochran &lt;dcochran@bristolva.org&gt;, Randall Eads &lt;CityManager@bristolva.org&gt;, 'mmartin@bristolva.org' (mmartin@bristolva.org) &lt;mmartin@bristolva.org&gt;, Joey Lamie &lt;Joey.Lamie@bristolva.org&gt;, Jake Chandler &lt;jacob.chandler@bristolva.org&gt;

CC: Dick, Bob &lt;BDick@scsengineers.com&gt;, Warren, Charles &lt;CWarren@scsengineers.com&gt;, Mahon, Ryan &lt;RMahon@scsengineers.com&gt;, Nachman, Lucas &lt;LNachman@scsengineers.com&gt;, Lock, Tom &lt;TLock@scsengineers.com&gt;

Ms. Hall and Ms. Bazyk,

In accordance with EPA's letter, "Approval of Higher Operating Temperature Values of Landfill Gas Wells and Submission of Gas Treatment Alternatives at the Bristol Virginia Integrated Solid Waste Facility" from August 2021, I am providing the November 1, 2022 status update on the existing wells, expansion of the gas collection system, and continuing operating and monitoring results, covering the period from October 16-31, 2022.

Wells 37, 51, 56, 57, and 67 had intermittent periods greater than 145F during this reporting period according to the City's data and were above the 145F temperature compliance threshold by the end of the reporting period. However, wells 54 and 64 remained below 145F throughout this reporting period. SCS received lab reports from Enthalpy during this period for sampling events on 10/12/22 for wells GW-37 and GW-67, as well as the event on 10/19/22 for wells GW-37 and GW-57. The lab reports are attached for reference.

CO results from 10/12/22 samples:

EW-37 - 94.5 ppm

EW-67 - 580 ppm

CO results from 10/19/22 samples:

EW-57: 102 ppm

EW-37: 94.9 ppm

SCS is working with the City to procure materials for the south leachate cleanout LFG System modification project, which SCS anticipates to begin construction in November. The temperature monitoring system installation project has just

gotten underway with drilling of probe TP-1 initiated on 10/26/22. The City is continuing steadfast cover efforts in the Permit 498 Landfill. Below is a photo of progress through today.



Let me know if you have any questions.

Thank you,

*D. Brandon King*

*SCS Engineers*

*Project Manager*

[15521 Midlothian Turnpike, Suite 305](#)

[Midlothian, VA 23113](#)

*Main 804-578-7440*

*Direct 804-486-1902*

*Cell 804-840-7846*

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*Crystal C. Bazyk*  
*Enforcement and Air Compliance/Monitoring Manager*  
*Virginia Department of Environmental Quality*  
355-A [Deadmore Street](#)  
[Abingdon, VA 24210](#)  
276-676-4829

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**3 attachments****LF588 Well Temps\_10-31-22.pdf**

91K

**22J0865\_2 EA\_TO15\_Air\_MDL-dev 10 21 2022 1415.pdf**

879K

**22J1080\_2 EA\_TO15\_Air\_MDL-dev 10 28 2022 1513.pdf**

331K

Note	Well Depth	Date Drill	Phase	Month	October	October	October	October	October	October	October	October	October	October	October	October	October	October	October	October
				Day	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday
				Date	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
				Well Number																
1	102	10/16/2016	Old Well	35	95	78	82	77	80	75	70	70	72	74	68	74	70	70	66	68
2	70	9/6/2017	Old Well	39	105	92	92	88	90	90	95	100	100	105	101	109	107	102	100	105
3	100	9/7/2017	Old Well	40	110	111	112	111	110	108	118	120	122	119	120	119	119	124	125	122
4	110	10/4/2016	Old Well	46	130	130	130	130	132	133	103	130	132	133	135	135	135	140	140	142
5	120	10/4/2016	Old Well	47	130	128	131	132	134	134	120	120	125	127	124	125	120	128	125	123
6	120	9/17/2013	Old Well	29	115	110	110	112	111	110	82	90	89	92	99	95	95	95	100	104
7	100	8/23/2017	Old Well	30R	135	132	134	138	133	130	130	130	132	132	131	131	131	132	133	135
8	120	8/30/2017	Old Well	31R	125	116	110	112	114	110	90	85	88	88	90	89	88	88	90	125
9	70	7/29/2016	Old Well	32	80	72	72	68	73	72	70	72	76	76	75	74	75	77	86	75
10	100	7/28/2016	Old Well	33	120	108	111	114	109	111	105	117	115	117	118	118	120	117	120	119
11	100	7/30/2016	Old Well	34	125	119	120	118	120	120	105	110	112	112	110	111	110	114	110	112
12	100	8/1/2016	Old Well	36	80	76	72	76	78	80	60	50	55	60	65	66	60	60	66	70
13	100	8/24/2017	Old Well	37	140	140	138	139	135	138	140	145	140	140	142	140	140	140	145	146
14	50	8/25/2017	Old Well	38	116	111	106	112	105	108	100	90	95	95	90	93	96	92	99	100
15	75	9/8/2017	Old Well	41	120	130	132	130	138	136	140	140	140	142	145	140	140	141	140	140
16	57	9/8/2017	Old Well	42	105	108	105	115	115	117	110	110	111	111	113	114	114	112	115	115
17	110	10/7/2016	Old Well	48	90	78	72	88	90	85	50	70	75	78	80	79	78	80	90	81
1	120	10/1/2021	New Well	32R	Too Tall	Too Tall	Too Tall	Too Tall	Too Tall	Too Tall	Too Tall	Too Tall	Too Tall	Too Tall	Too Tall	Too Tall	Too Tall	Too Tall	Too Tall	Too Tall
2	110	10/1/2021	New Well	49	145	145	145	140	145	142	103	128	135	135	132	135	138	137	130	130
3	96	10/1/2021	New Well	50	135	129	132	130	132	130	122	122	129	130	130	130	130	128	130	128
4	114	10/1/2021	New Well	51	140	135	132	132	134	130	145	145	142	140	145	143	144	145	142	146
5	109	10/1/2021	New Well	52	105	98	99	101	98	99	50	75	78	80	80	82	82	79	81	82
6	91	10/1/2021	New Well	53	130	120	119	115	122	125	115	130	131	130	132	130	133	130	130	135
7	91	10/1/2021	New Well	54	140	138	140	135	138	136	130	130	135	135	135	137	134	135	132	135
8	104	10/1/2021	New Well	55	105	98	96	100	102	102	95	100	105	109	110	111	111	108	110	110
9	109	10/1/2021	New Well	56	125	131	133	130	135	133	135	140	141	145	145	145	142	140	145	146
10	103	10/1/2021	New Well	57	145	130	130	132	134	134	140	150	145	142	145	146	145	145	145	148
11	92	10/1/2021	New Well	58	75	66	68	73	74	70	70	70	78	76	78	78	76	78	78	114
12	72	10/1/2021	New Well	59	119	119	118	112	115	110	110	112	114	115	115	115	113	110	106	116
13	120	10/1/2021	New Well	60	128	120	120	122	120	122	120	120	122	125	125	125	125	125	122	129
14	105	10/1/2021	New Well	61	105	98	100	105	108	102	90	95	95	100	100	100	100	97	100	98
15	120	10/1/2021	New Well	62	110	102	106	108	110	105	120	120	125	126	125	125	124	125	125	125
16	117	10/1/2021	New Well	63	128	120	124	124	125	122	110	120	122	123	122	122	124	125	130	128
17	120	10/1/2021	New Well	64	122	124	124	128	130	130	132	135	136	135	135	135	132	135	130	140
18	100	10/1/2021	New Well	65	130	115	112	112	105	100	80	70	75	73	76	76	75	76	77	119
19	102	10/1/2021	New Well	66	118	121	122	120	124	122	130	125	116	118	118	118	118	120	122	124
20	100	10/1/2021	New Well	67	145	148	150	150	148	146	140	140	145	145	145	145	145	140	140	145
21	75	10/1/2021	New Well	68	130	129	122	122	124	124	120	122	124	125	125	127	125	127	128	128



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## Certificate of Analysis

### *Final Report*

Laboratory Order ID 22J0865

Client Name:	SCS Field Services - Harrisburg, PA	Date Received:	October 18, 2022 10:28
	4330 Lewis Road, Suite 1	Date Issued:	October 21, 2022 14:15
	Harrisburg, PA 17111	Project Number:	[none]
Submitted To:	Tom Lock	Purchase Order:	
Client Site I.D.:	Bristol		

Enclosed are the results of analyses for samples received by the laboratory on 10/18/2022 10:28. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

A handwritten signature in black ink that reads 'Ted Soyars'.

Ted Soyars  
Technical Director

#### End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

This report shall not be reproduced except in full without the expressed and written approval of an authorized representative of Enthalpy Analytical, Inc.





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## Certificate of Analysis

### *Final Report*

Laboratory Order ID 22J0865

Client Name: SCS Field Services - Harrisburg, PA      Date Received: October 18, 2022 10:28  
4330 Lewis Road, Suite 1      Date Issued: October 21, 2022 14:15  
  
Harrisburg, PA 17111      Project Number: [none]  
Submitted To: Tom Lock      Purchase Order:  
  
Client Site I.D.: Bristol

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
37	22J0865-01	Air	10/12/2022 14:23	10/18/2022 10:28
67	22J0865-02	Air	10/12/2022 14:00	10/18/2022 10:28



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## Certificate of Analysis

Final Report

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Client Name: SCS Field Services - Harrisburg, PA  
4330 Lewis Road, Suite 1

Date Received: October 18, 2022 10:28  
Date Issued: October 21, 2022 14:15

Harrisburg, PA 17111

Submitted To: Tom Lock

Project Number: [none]

Client Site I.D.: Bristol

Purchase Order:

### ANALYTICAL RESULTS

Project Location:

Sample Description/Location:

Initial Vacuum(in Hg): 30

Field Sample #: 37

Sub Description/Location:

Final Vacuum(in Hg): 9.2

Sample ID: 22J0865-01

Canister ID: 063-00087::00335

Receipt Vacuum(in Hg): 9.2

Sample Matrix: Air

Canister Size: 1.4

Flow Controller Type: Passive

Sampled: 10/12/2022 14:23

Flow Controller ID:

Sample Type: LG

#### Volatile Organic Compounds by GC/TCD - Unadjusted, as received basis ALT-145

Analyte	ppmv			Flag/Qual	Dilution	PF	Date/Time Analyzed	Analyst
	Result	MDL	LOQ					
Carbon Monoxide, as received	94.5	90.0	90.0		9	1	10/20/22 11:46	DFH



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## Certificate of Analysis

Final Report

Laboratory Order ID 22J0865

Client Name: SCS Field Services - Harrisburg, PA  
4330 Lewis Road, Suite 1

Date Received: October 18, 2022 10:28  
Date Issued: October 21, 2022 14:15

Harrisburg, PA 17111

Submitted To: Tom Lock

Project Number: [none]

Client Site I.D.: Bristol

Purchase Order:

### ANALYTICAL RESULTS

Project Location:

Sample Description/Location:

Initial Vacuum(in Hg): 30

Field Sample #: 67

Sub Description/Location:

Final Vacuum(in Hg): 4.2

Sample ID: 22J0865-02

Canister ID: 063-00204::9205

Receipt Vacuum(in Hg): 4.2

Sample Matrix: Air

Canister Size: 1.4

Flow Controller Type: Passive

Sampled: 10/12/2022 14:00

Flow Controller ID:

Sample Type: LG

#### Volatile Organic Compounds by GC/TCD - Unadjusted, as received basis ALT-145

Analyte	ppmv			Flag/Qual	Dilution	PF	Date/Time Analyzed	Analyst
	Result	MDL	LOQ					
Carbon Monoxide, as received	580	90.0	90.0		9	1	10/20/22 13:06	DFH





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Date Issued: October 21, 2022 14:15

Harrisburg, PA 17111

Submitted To: Tom Lock

Project Number: [none]

Client Site I.D.: Bristol

Purchase Order:

### Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Volatile Organic Compounds by GC/TCD - Unadjusted, as received basis			Preparation Method:	No Prep VOC GC Air	
22J0865-01	1.00 mL / 1.00 mL	ALT-145	BFJ0773	SFJ0750	AG00026
22J0865-02	1.00 mL / 1.00 mL	ALT-145	BFJ0773	SFJ0750	AG00026



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## Certificate of Analysis

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4330 Lewis Road, Suite 1

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Submitted To: Tom Lock

Project Number: [none]

Client Site I.D.: Bristol

Purchase Order:

### Volatile Organic Compounds by GC/TCD - Unadjusted, as received basis - Quality Control

#### Enthalpy Analytical

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
---------	------------------	-------	-------	-------------	---------------	------	-------------	-----	-----------	------

#### Batch BFJ0773 - No Prep VOC GC Air

##### Blank (BFJ0773-BLK1)

Prepared & Analyzed: 10/20/2022

Carbon Monoxide < 10.0 ppmv

##### LCS (BFJ0773-BS1)

Prepared & Analyzed: 10/20/2022

Methane	4480	500	ppmv	5000	89.6	0-200
Carbon dioxide	4420	500	ppmv	5000	88.4	0-200
Oxygen (O2)	5100	500	ppmv	5000	102	0-200
Nitrogen (N2)	5530	2000	ppmv	5000	111	0-200
Hydrogen (H2)	5710	200	ppmv	5100	112	0-200
Carbon Monoxide	4800	10	ppmv	5000	95.9	0-200

##### Duplicate (BFJ0773-DUP1)

Source: 22J0865-01

Prepared & Analyzed: 10/20/2022

Methane	147000	4500	ppmv	146000	0.992	25
Carbon dioxide	223000	4500	ppmv	219000	1.53	25
Oxygen (O2)	71900	4500	ppmv	71200	0.989	25
Hydrogen (H2)	11700	1800	ppmv	11600	0.305	25
Nitrogen (N2)	421000	18000	ppmv	416000	1.18	25
Carbon Monoxide	<	90.0	ppmv	94.5	NA	25

##### Duplicate (BFJ0773-DUP3)

Source: 22J0731-01

Prepared & Analyzed: 10/20/2022

Methane	311000	4500	ppmv	312000	0.268	25
Carbon dioxide	282000	4500	ppmv	282000	0.0129	25
Oxygen (O2)	10200	4500	ppmv	10300	0.915	25
Hydrogen (H2)	<	1800	ppmv	<1800	NA	25
Nitrogen (N2)	326000	18000	ppmv	328000	0.436	25
Carbon Monoxide	<	90.0	ppmv	<90.0	NA	25



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## Certificate of Analysis

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4330 Lewis Road, Suite 1

Date Received: October 18, 2022 10:28  
Date Issued: October 21, 2022 14:15

Harrisburg, PA 17111

Submitted To: Tom Lock

Project Number: [none]

Client Site I.D.: Bristol

Purchase Order:

### Certified Analytes included in this Report

Analyte	Certifications	Analyte	Certifications
Code	Description	Laboratory ID	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2022
NCDEQ	North Carolina DEQ	495	12/31/2022
NYDOH	New York DOH Drinking Water	12096	04/01/2023
PADEP	NELAP-Pennsylvania Certificate #007	68-03503	10/31/2022
VELAP	NELAP-Virginia Certificate #12098	460021	06/14/2023
WVDEP	West Virginia DEP	350	11/30/2022

### Qualifiers and Definitions

RPD	Relative Percent Difference
Qual	Qualifiers
-RE	Denotes sample was re-analyzed
PF	Preparation Factor
MDL	Method Detection Limit
LOQ	Limit of Quantitation
ppbv	parts per billion by volume

TIC Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library. A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.

All EPA method 3C results are reported as normalized values when the sum total of all evaluated constituents is outside  $\pm 10\%$  of the absolute.

**AIR ANALYSIS**  
**CHAIN OF CUSTODY**

Equipment due 10/31

COMPANY NAME: SCS Field Services - Harrisburg		INVOICE TO: Same		PROJECT NAME/Quote #: Bristol	
CONTACT:		INVOICE CONTACT:		SITE NAME: Bristol	
ADDRESS:		INVOICE ADDRESS:		PROJECT NUMBER:	
PHONE #:		INVOICE PHONE #:		P.O. #:	
FAX #:		EMAIL:		Pretreatment Program:	
Is sample for compliance reporting? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		Regulatory State: VA		Is sample from a chlorinated supply? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	
PWS I.D. #:					
SAMPLER NAME (PRINT): Ryan Seymour		SAMPLER SIGNATURE: Ryan Seymour		Turn Around Time: Circle: 10 <u>5 Days</u> or ___ Day	
Matrix Codes: AA=Indoor/Ambient Air SG=Soil Gas LV=Landfill/Vent Gas OT=Other <u>OT</u>				063-221-0016	

CLIENT SAMPLE I.D.		Regulator Info		Canister Information				Sampling Start Information				Sampling Stop Information				Matrix (See Codes)	ANALYSIS			
		Flow Controller ID	Cal Flow (mL/min)	Canister ID	Size (L)	Cleaning Batch ID	LAB Outgoing Canister Vacuum (in Hg)	LAB Receiving Canister Vacuum (in Hg)	Barometric Pres. (in Hg):				Barometric Pres. (in Hg):							
									Start Date	Start Time (24hr clock)	Initial Canister Vacuum (in Hg)	Starting Sample Temp °F	Stop Date	Stop Time (24hr clock)	Final Canister Vacuum (in Hg)		Ending Sample Temp °F	Alt 145 CO		
1)	37	LAB	LAB	335	1.4	220412-07	20	9.2	10/12/22	14:20	18	151	10/12/22	14:28	3		LG	x		
2)	67	LAB	LAB	9205	1.4	220901-01	20	4.2	10/12/22	13:58	0	159	10/12/22	14:00	0	159	LG	x		
3)	57	—————		10224	1.4	220919-02	20	This well is 183 degrees. Spewing steam and black foam coming out I didn't want to								LG	x			
4)	67			11317	1.4	220728-01	20	Suck up in my gear. 10/12/22 14:50 0								LG	x			
no seal no ice 20.2 310																				

RELINQUISHED:	RECEIVED:	DATE / TIME	QC Data Package	LAB USE ONLY
	Ledexground		Level I <input type="checkbox"/>	
RELINQUISHED:	RECEIVED:	DATE / TIME	Level II <input type="checkbox"/>	
Ledexground	70	10/18/22 10:28	Level III <input type="checkbox"/>	
RELINQUISHED:	RECEIVED:	DATE / TIME	Level IV <input type="checkbox"/>	

SCS Field Services 22J0865  
Bristol  
Recd: 10/18/2022 Due: 10/25/2022

v130325002

The sample train gauge didn't work.

How to use the book



**AIR ANALYSIS**  
**CHAIN OF CUSTODY**

**Equipment due 10/31**

COMPANY NAME: SCS Field Services - Harrisburg		INVOICE TO: <b>Same</b>		PROJECT NAME/Quote #: <b>Bristol</b>	
CONTACT:		INVOICE CONTACT:		SITE NAME:	
ADDRESS:		INVOICE ADDRESS:		PROJECT NUMBER:	
PHONE #:		INVOICE PHONE #:		P.O. #:	
FAX #:		EMAIL:		Pretreatment Program:	
Is sample for compliance reporting? YES NO		Regulatory State:		Is sample from a chlorinated supply? YES NO	
				PWS I.D. #:	
SAMPLER NAME (PRINT):		SAMPLER SIGNATURE:		Turn Around Time: Circle: <b>10</b> <b>5</b> Days or <b>__</b> Day	
Matrix Codes: AA=Indoor/Ambient Air SG=Soil Gas LV=Landfill/Vent Gas OT=Other				<b>063-221-0016</b>	

CLIENT SAMPLE I.D.		Regulator Info		Canister Information				Sampling Start Information				Sampling Stop Information				Matrix (See Codes)	ANALYSIS		
		Flow Controller ID	Cal Flow (mL/min)	Canister ID	Size (L)	Cleaning Batch ID	LAB Outgoing Canister Vacuum (in Hg)	LAB Receiving Canister Vacuum (in Hg)	Barometric Pres. (in Hg):				Barometric Pres. (in Hg):						
									Start Date	Start Time (24hr clock)	Initial Canister Vacuum (in Hg)	Starting Sample Temp °F	Stop Date	Stop Time (24hr clock)	Final Canister Vacuum (in Hg)		Ending Sample Temp °F	Alt 145 CO	
1)				12408	1.4	220919-02	20									LG	x		
2)				12411	1.4	220919-02	20									LG	x		
3)																			
4)																			
no Segl no ice 20.2 3/0																			

*no seal no ice 20.2 3/0*

RELINQUISHED:	RECEIVED:	DATE / TIME	QC Data Package	<b>LAB USE ONLY</b>
RELINQUISHED:	<i>fedex</i>		Level I <input type="checkbox"/>	
RELINQUISHED:	<i>70 10/18/22 1028</i>		Level II <input type="checkbox"/>	
RELINQUISHED:			Level III <input type="checkbox"/>	
			Level IV <input type="checkbox"/>	

**SCS Field Services 22J0865**  
**Bristol**  
**Recd: 10/18/2022 Due: 10/25/2022**

v130325002



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## Certificate of Analysis

Final Report

Laboratory Order ID 22J0865

Client Name: SCS Field Services - Harrisburg, PA  
4330 Lewis Road, Suite 1

Date Received: October 18, 2022 10:28  
Date Issued: October 21, 2022 14:15

Harrisburg, PA 17111

Submitted To: Tom Lock

Project Number: [none]

Client Site I.D.: Bristol

Purchase Order:

### Sample Conditions Checklist

Samples Received at:	20.20°C
How were samples received?	FedEx Ground
Were Custody Seals used? If so, were they received intact?	No
Are the custody papers filled out completely and correctly?	Yes
Do all bottle labels agree with custody papers?	Yes
Is the temperature blank or representative sample within acceptable limits or received on ice, and recently taken?	Yes
Are all samples within holding time for requested laboratory tests?	Yes
Is a sufficient amount of sample provided to perform the tests included?	Yes
Are all samples in appropriate containers for the analyses requested?	Yes
Were volatile organic containers received?	No
Are all volatile organic and TOX containers free of headspace?	NA
Is a trip blank provided for each VOC sample set? VOC sample sets include EPA8011, EPA504, EPA8260, EPA624, EPA8015 GRO, EPA8021, EPA524, and RSK-175.	NA
Are all samples received appropriately preserved? Note that metals containers do not require field preservation but lab preservation may delay analysis.	Yes

### Work Order Comments



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## Certificate of Analysis

### *Final Report*

Laboratory Order ID 22J1080

Client Name:	SCS Field Services - Harrisburg, PA	Date Received:	October 21, 2022 10:25
	4330 Lewis Road, Suite 1	Date Issued:	October 28, 2022 15:13
	Harrisburg, PA 17111	Project Number:	[none]
Submitted To:	Tom Lock	Purchase Order:	
Client Site I.D.:	Bristol		

Enclosed are the results of analyses for samples received by the laboratory on 10/21/2022 10:25. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

A handwritten signature in black ink that reads 'Ted Soyars'.

Ted Soyars  
Technical Director

#### End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

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## Certificate of Analysis

### *Final Report*

Laboratory Order ID 22J1080

Client Name: SCS Field Services - Harrisburg, PA      Date Received: October 21, 2022 10:25  
4330 Lewis Road, Suite 1      Date Issued: October 28, 2022 15:13  
  
Harrisburg, PA 17111      Project Number: [none]  
Submitted To: Tom Lock      Purchase Order:  
  
Client Site I.D.: Bristol

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
57	22J1080-01	Air	10/19/2022 11:15	10/21/2022 10:25
37	22J1080-02	Air	10/19/2022 11:00	10/21/2022 10:25



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4330 Lewis Road, Suite 1

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Harrisburg, PA 17111

Submitted To: Tom Lock

Project Number: [none]

Client Site I.D.: Bristol

Purchase Order:

### ANALYTICAL RESULTS

Project Location:

Sample Description/Location:

Initial Vacuum(in Hg): 30

Field Sample #: 57

Sub Description/Location:

Final Vacuum(in Hg): 6.6

Sample ID: 22J1080-01

Canister ID: 063-00373: 13954

Receipt Vacuum(in Hg): 6.6

Sample Matrix: Air

Canister Size: 1.4

Flow Controller Type: passive

Sampled: 10/19/2022 11:15

Flow Controller ID:

Sample Type: LG

#### Volatile Organic Compounds by GC/TCD - Unadjusted, as received basis ALT-145

Analyte	ppmv			Flag/Qual	Dilution	PF	Date/Time Analyzed	Analyst
	Result	MDL	LOQ					
Carbon Monoxide, as received	102	90.0	90.0		9	1	10/24/22 9:24	DFH



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Harrisburg, PA 17111

Submitted To: Tom Lock

Project Number: [none]

Client Site I.D.: Bristol

Purchase Order:

### ANALYTICAL RESULTS

Project Location:

Sample Description/Location:

Initial Vacuum(in Hg): 30

Field Sample #: 37

Sub Description/Location:

Final Vacuum(in Hg): 7.8

Sample ID: 22J1080-02

Canister ID: 063-00372: 13957

Receipt Vacuum(in Hg): 7.8

Sample Matrix: Air

Canister Size: 1.4

Flow Controller Type: passive

Sampled: 10/19/2022 11:00

Flow Controller ID:

Sample Type: LG

#### Volatile Organic Compounds by GC/TCD - Unadjusted, as received basis ALT-145

Analyte	ppmv			Flag/Qual	Dilution	PF	Date/Time Analyzed	Analyst
	Result	MDL	LOQ					
Carbon Monoxide, as received	94.9	90.0	90.0		9	1	10/24/22 10:17	DFH



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Harrisburg, PA 17111

Submitted To: Tom Lock

Project Number: [none]

Client Site I.D.: Bristol

Purchase Order:

### Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Volatile Organic Compounds by GC/TCD - Unadjusted, as received basis			Preparation Method:	No Prep VOC GC Air	
22J1080-01	1.00 mL / 1.00 mL	ALT-145	BFJ0870	SFJ0832	AG00026
22J1080-02	1.00 mL / 1.00 mL	ALT-145	BFJ0870	SFJ0832	AG00026



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## Certificate of Analysis

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Project Number: [none]

Client Site I.D.: Bristol

Purchase Order:

### Volatile Organic Compounds by GC/TCD - Unadjusted, as received basis - Quality Control

#### Enthalpy Analytical

Analyte	Reporting		Spike	Source	%REC		RPD	RPD	Limit	Qual
	Result	Limit			%REC	Limits				

#### Batch BFJ0870 - No Prep VOC GC Air

##### Blank (BFJ0870-BLK1)

Prepared & Analyzed: 10/24/2022

Carbon Monoxide < 10.0 ppmv

##### LCS (BFJ0870-BS1)

Prepared & Analyzed: 10/24/2022

Methane	4490	500	ppmv	5000	89.8	0-200
Carbon dioxide	4110	500	ppmv	5000	82.3	0-200
Oxygen (O2)	5520	500	ppmv	5000	110	0-200
Nitrogen (N2)	6690	2000	ppmv	5000	134	0-200
Hydrogen (H2)	5790	200	ppmv	5100	113	0-200
Carbon Monoxide	4820	10	ppmv	5000	96.3	0-200

##### Duplicate (BFJ0870-DUP1)

Source: 22J1080-01

Prepared & Analyzed: 10/24/2022

Methane	412000	4500	ppmv	412000	0.0289	25	
Carbon dioxide	408000	4500	ppmv	407000	0.277	25	
Oxygen (O2)	20700	4500	ppmv	20700	0.0361	25	C
Nitrogen (N2)	81500	18000	ppmv	81100	0.426	25	
Hydrogen (H2)	22200	1800	ppmv	22300	0.0724	25	
Carbon Monoxide	105	90.0	ppmv	102	3.05	25	

##### Duplicate (BFJ0870-DUP2)

Source: 22J1080-02

Prepared & Analyzed: 10/24/2022

Methane	149000	4500	ppmv	149000	0.0974	25	
Carbon dioxide	229000	4500	ppmv	229000	0.293	25	
Oxygen (O2)	73200	4500	ppmv	73100	0.120	25	C
Hydrogen (H2)	10200	1800	ppmv	10100	0.769	25	
Nitrogen (N2)	431000	18000	ppmv	430000	0.125	25	
Carbon Monoxide	97.0	90.0	ppmv	94.9	2.25	25	

##### Duplicate (BFJ0870-DUP3)

Source: 22J1078-01

Prepared & Analyzed: 10/24/2022

Methane	324000	4500	ppmv	325000	0.413	25	
Carbon dioxide	268000	4500	ppmv	269000	0.419	25	
Oxygen (O2)	10900	4500	ppmv	11100	1.79	25	C
Nitrogen (N2)	322000	18000	ppmv	323000	0.549	25	
Hydrogen (H2)	<	1800	ppmv	<1800	NA	25	
Carbon Monoxide	<	90.0	ppmv	<90.0	NA	25	



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## Certificate of Analysis

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Harrisburg, PA 17111

Submitted To: Tom Lock

Project Number: [none]

Client Site I.D.: Bristol

Purchase Order:

**Volatile Organic Compounds by GC/TCD - Unadjusted, as received basis - Quality Control**

### Enthalpy Analytical

Analyte	Reporting			Spike Level	Source Result	%REC			RPD		Qual
	Result	Limit	Units			%REC	Limits	RPD	Limit		

#### Batch BFJ0870 - No Prep VOC GC Air

Duplicate (BFJ0870-DUP4)				Source: 22J1089-01		Prepared & Analyzed: 10/24/2022				
Methane	276000	4500	ppmv			275000	0.425	25		
Carbon dioxide	492000	4500	ppmv			491000	0.156	25		
Oxygen (O2)	<	4500	ppmv			<4500	NA	25		C
Hydrogen (H2)	124000	1800	ppmv			124000	0.0336	25		
Nitrogen (N2)	69000	18000	ppmv			68900	0.0724	25		
Carbon Monoxide	647	90.0	ppmv			636	1.71	25		

Duplicate (BFJ0870-DUP5)				Source: 22J1089-02		Prepared & Analyzed: 10/24/2022				
Methane	312000	4500	ppmv			309000	0.742	25		
Carbon dioxide	494000	4500	ppmv			489000	0.982	25		
Oxygen (O2)	19800	4500	ppmv			19700	0.433	25		C
Hydrogen (H2)	46300	1800	ppmv			46000	0.745	25		
Nitrogen (N2)	72200	18000	ppmv			72000	0.355	25		
Carbon Monoxide	371	90.0	ppmv			367	1.05	25		

Duplicate (BFJ0870-DUP6)				Source: 22J1089-03		Prepared & Analyzed: 10/24/2022				
Methane	64600	4500	ppmv			64800	0.259	25		
Carbon dioxide	631000	4500	ppmv			631000	0.0692	25		
Oxygen (O2)	13900	4500	ppmv			14100	1.73	25		C
Hydrogen (H2)	182000	1800	ppmv			182000	0.212	25		
Nitrogen (N2)	52400	18000	ppmv			53300	1.80	25		
Carbon Monoxide	1430	90.0	ppmv			1430	0.196	25		

Duplicate (BFJ0870-DUP7)				Source: 22J1307-01		Prepared: 10/24/2022 Analyzed: 10/27/2022				
Methane	265000	9000	ppmv			265000	0.114	25		
Carbon dioxide	463000	9000	ppmv			461000	0.335	25		
Oxygen (O2)	<	9000	ppmv			<9000	NA	25		
Hydrogen (H2)	107000	3600	ppmv			107000	0.0419	25		
Nitrogen (N2)	49500	36000	ppmv			50000	1.06	25		
Carbon Monoxide	559	180	ppmv			565	0.992	25		



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Date Received: October 21, 2022 10:25  
Date Issued: October 28, 2022 15:13

Harrisburg, PA 17111

Submitted To: Tom Lock

Project Number: [none]

Client Site I.D.: Bristol

Purchase Order:

**Volatile Organic Compounds by GC/TCD - Unadjusted, as received basis - Quality Control**

### Enthalpy Analytical

Analyte	Reporting			Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit	Units			%REC	Limits	RPD	Limit	

#### Batch BFJ0870 - No Prep VOC GC Air

Duplicate (BFJ0870-DUP8)				Source: 22J1307-02		Prepared: 10/24/2022 Analyzed: 10/27/2022				
Methane	207000	9000	ppmv			204000	1.66		25	
Carbon dioxide	549000	9000	ppmv			542000	1.27		25	
Oxygen (O2)	<	9000	ppmv			<9000	NA		25	
Nitrogen (N2)	61200	36000	ppmv			60100	1.83		25	
Hydrogen (H2)	71400	3600	ppmv			70100	1.91		25	
Carbon Monoxide	338	180	ppmv			<180	NA		25	

Duplicate (BFJ0870-DUP9)				Source: 22J1307-03		Prepared: 10/24/2022 Analyzed: 10/27/2022				
Methane	179000	9000	ppmv			176000	1.42		25	
Carbon dioxide	332000	9000	ppmv			331000	0.378		25	
Oxygen (O2)	63600	9000	ppmv			63100	0.683		25	
Nitrogen (N2)	231000	36000	ppmv			229000	0.869		25	
Hydrogen (H2)	61200	3600	ppmv			60600	0.931		25	
Carbon Monoxide	523	180	ppmv			514	1.77		25	

Duplicate (BFJ0870-DUPA)				Source: 22J1332-01		Prepared: 10/24/2022 Analyzed: 10/28/2022				
Methane	311000	4500	ppmv			309000	0.793		25	
Carbon dioxide	308000	4500	ppmv			305000	0.760		25	
Oxygen (O2)	58900	4500	ppmv			58900	0.000610		25	
Hydrogen (H2)	23100	1800	ppmv			23300	1.16		25	
Nitrogen (N2)	216000	18000	ppmv			216000	0.132		25	
Carbon Monoxide	129	90.0	ppmv			120	6.80		25	

#### Certified Analytes included in this Report

Analyte	Certifications	Analyte	Certifications
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## Certificate of Analysis

Final Report

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Harrisburg, PA 17111

Submitted To: Tom Lock

Project Number: [none]

Client Site I.D.: Bristol

Purchase Order:

Code	Description	Laboratory ID	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2022
NCDEQ	North Carolina DEQ	495	12/31/2022
NYDOH	New York DOH Drinking Water	12096	04/01/2023
PADEP	NELAP-Pennsylvania Certificate #007	68-03503	10/31/2022
VELAP	NELAP-Virginia Certificate #12098	460021	06/14/2023
WVDEP	West Virginia DEP	350	11/30/2022

### Qualifiers and Definitions

C Continuing calibration verification response for this analyte is outside specifications.

RPD Relative Percent Difference

Qual Qualifiers

-RE Denotes sample was re-analyzed

PF Preparation Factor

MDL Method Detection Limit

LOQ Limit of Quantitation

ppbv parts per billion by volume

TIC Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library. A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.

All EPA method 3C results are reported as normalized values when the sum total of all evaluated constituents is outside  $\pm 10\%$  of the absolute.



**AIR ANALYSIS  
CHAIN OF CUSTODY**

Equipment due ~~8/30/22~~ **10/30/22**

*RD*

COMPANY NAME: SCS Field Services - Harrisburg		INVOICE TO: Same		PROJECT NAME/Quote #: Bristol	
CONTACT: Mike Byk		INVOICE CONTACT:		SITE NAME: Bristol	
ADDRESS:		INVOICE ADDRESS:		PROJECT NUMBER:	
PHONE #:		INVOICE PHONE #:		P.O. #:	
FAX #:		EMAIL:		Pretreatment Program:	
Is sample for compliance reporting? <b>(YES)</b> NO		Regulatory State: VA		Is sample from a chlorinated supply? YES <b>(NO)</b>	
SAMPLER NAME (PRINT): Ryan Seymour		SAMPLER SIGNATURE: <i>Ryan Seymour</i>		Turn Around Time: Circle: 10 <b>(5 Days)</b> or ___ Day	
Matrix Codes: AA=Indoor/Ambient Air SG=Soil Gas LV=Landfill/Vent Gas OT=Other LV		063-221-0009			

CLIENT SAMPLE I.D.		Regulator Info		Canister Information				Sampling Start Information				Sampling Stop Information				Matrix (See Codes)	ANALYSIS			
		Flow Controller ID	Cal Flow (mL/min)	Canister ID	Size (L)	Cleaning Batch ID	LAB Outgoing Canister Vacuum (in Hg)	LAB Receiving Canister Vacuum (in Hg)	Barometric Pres. (in Hg):				Barometric Pres. (in Hg):							
									Start Date	Start Time (24hr clock)	Initial Canister Vacuum (in Hg)	Starting Sample Temp °F	Stop Date	Stop Time (24hr clock)	Final Canister Vacuum (in Hg)		Ending Sample Temp °F	Alt 145 CO		
1)	57	N BOX		13954	1.4	220902-01	30	29 (6.6)	10/19/22	11:14 AM	29	152°	10/19/22	11:15 AM	-2	152°	LG	x		
2)	37	N BOX		13957	1.4	220902-01	30	29 (7.8)	10/19/22	10:59 AM	29	149°	10/19/22	11:00 AM	-2	149°	LG	x		
3)				13964	1.4	220902-01	30										LG	x		
4)				13967	1.4	220902-01	30										LG	x		

316 203 noise noise

RELINQUISHED:	RECEIVED: <i>Federex ground</i> DATE / TIME	QC Data Package	LAB USE ONLY  <b>SCS Field Services 22J1080</b> <b>Bristol</b> <b>Recd: 10/21/2022 Due: 10/28/2022</b> v130325002
INQUISHED: <i>Federex ground</i> DATE / TIME	RECEIVED: <i>NO 10/21/22 10:25</i> DATE / TIME	Level I <input type="checkbox"/>	
INQUISHED: DATE / TIME	RECEIVED: DATE / TIME	Level II <input type="checkbox"/>	
INQUISHED: DATE / TIME	RECEIVED: DATE / TIME	Level III <input type="checkbox"/>	
		Level IV <input type="checkbox"/>	

PHONE #:		INVOICE PHONE #:		P.O. #:	
FAX #:		EMAIL:		Pretreatment Program:	
Is sample for compliance reporting? YES NO		Regulatory State:		Is sample from a chlorinated supply? YES NO PV	
SAMPLER NAME (PRINT):				SAMPLER SIGNATURE:	
				Turn Around Time: Cir	

Matrix Codes: AA=Indoor/Ambient Air SG=Soil Gas LV=Landfill/Vent Gas OT=Other \_\_\_\_\_ 063-221-000

CLIENT SAMPLE I.D.		Regulator Info		Canister Information				Sampling Start Information				Sampling Stop Inform		
		Flow Controller ID	Cal Flow (mL/min)	Canister ID	Size (L)	Cleaning Batch ID	LAB Outgoing Canister Vacuum (in Hg)	LAB Receiving Canister Vacuum (in Hg)	Barometric Pres. (in Hg):				Barometric Pres. (in Hg):	
									Start Date	Start Time (24hr clock)	Initial Canister Vacuum (in Hg)	Starting Sample Temp °F	Stop Date	Stop Time (24hr clock)
1)				13969	1.4	220902-01	30							
2)				13971	1.4	220902-01	30							
3)							30							
4)							30							

310 20.3 70

RELINQUISHED:		RECEIVED: <i>fedex ground</i>		DATE / TIME	QC Data Package	<b>LAB USE ONLY</b>  <b>SCS Field Service</b> <b>Bristol</b> <b>Recd: 10/21/2022</b>
RELINQUISHED: <i>fedex ground</i>		RECEIVED: <i>70 10/21/22 1025</i>		DATE / TIME	Level I <input type="checkbox"/>	
RELINQUISHED:		RECEIVED:		DATE / TIME	Level II <input type="checkbox"/>	
RELINQUISHED:		RECEIVED:		DATE / TIME	Level III <input type="checkbox"/>	
RELINQUISHED:		RECEIVED:		DATE / TIME	Level IV <input type="checkbox"/>	

22J1080



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## Certificate of Analysis

Final Report

Laboratory Order ID 22J1080

Client Name:	SCS Field Services - Harrisburg, PA 4330 Lewis Road, Suite 1  Harrisburg, PA 17111	Date Received:	October 21, 2022 10:25
		Date Issued:	October 28, 2022 15:13
Submitted To:	Tom Lock	Project Number:	[none]
Client Site I.D.:	Bristol	Purchase Order:	

## Sample Conditions Checklist

Samples Received at:	20.30°C
How were samples received?	FedEx Ground
Were Custody Seals used? If so, were they received intact?	No
Are the custody papers filled out completely and correctly?	Yes
Do all bottle labels agree with custody papers?	Yes
Is the temperature blank or representative sample within acceptable limits or received on ice, and recently taken?	Yes
Are all samples within holding time for requested laboratory tests?	Yes
Is a sufficient amount of sample provided to perform the tests included?	Yes
Are all samples in appropriate containers for the analyses requested?	Yes
Were volatile organic containers received?	No
Are all volatile organic and TOX containers free of headspace?	NA
Is a trip blank provided for each VOC sample set? VOC sample sets include EPA8011, EPA504, EPA8260, EPA624, EPA8015 GRO, EPA8021, EPA524, and RSK-175.	NA
Are all samples received appropriately preserved? Note that metals containers do not require field preservation but lab preservation may delay analysis.	Yes

## Work Order Comments