Town of Baileyton W.W.T.P. 6530 Horton Highway Greeneville, TN 37745 Phone #(423) 234-6911 Fax # (423) 234-5442



January 11, 2022

To; Whom it May Concern

I certify, under penalty of law that the Class B pathogen requirements in 503.32(b) and vector attraction requirements in 503.33(b)(1) or (b) (3) have been met. This determination has been under my supervision in accordance with the system design to insure that qualified personnel properly gather and evaluate the information used to determine that the pathogen and vector attraction requirements have been met. I am aware that there are significant penalties for the false certification including the possibility of fines and imprisonment.

W.W.T.P. Operator Pany P. Neaf

Danny P. Neely

I certify under penalty of law that the management practices in CFR 40 Section 503.14 have been met for the site on which the bulk sewage sludge is applied. This determination has been under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practices have been met. I am aware that there are significant penalties for the false certification including the possibility of fines and imprisonment.

W.W.T.P. Operator

Danny P. Neely



of Mees

Town of Baileyton W.W.T.P. 6530 Horton Highway Greeneville, TN 37745 Phone #(423) 234-6911 Fax # (423) 234-5442

January 11, 2022

To; Sandra K. Vance

The Town of Baileyton's sludge sampling schedule for the year 2022 is to collect digester sludge samples in April or May for all the parameters in our Bio Solids Permit. This is for the heavy metals as well as e-coli testing. I will also do a S.O.U.R. Test on the digested sludge. I will also do a S.O.U.R. Test on the digested sludge if we have to haul sludge in the summer and again in October or November when we empty our digesters for the winter months. We try to do the same thing every year.

If you have any further questions please feel free to contact at 423-234-0991.

Sincerely Hanny P. Moof

Danny P. Neely

Town of Baileyton W.W.T.P. 6530 Horton Highway Greeneville, TN 37745 Phone #(423) 234-6911 Fax # (423) 234-5442

January 11, 2022

To; Sandra K. Vance

The Town of Baileyton's sludge sampling schedule for the year 2022 is to collect digester sludge samples in April or May for all the parameters in our Bio Solids Permit. This is for the heavy metals as well as e-coli testing. I will also do a S.O.U.R. Test on the digested sludge. I will also do a S.O.U.R. Test on the digested sludge if we have to haul sludge in the summer and again in October or November when we empty our digesters for the winter months. We try to do the same thing every year.

If you have any further questions please feel free to contact at 423-234-0991.

Sincerely

Danny P. Neely

Town of Baileyton W.W.T.P. Annual Sludge Report

	Tons of Sluge Hauled	S.O.U.R. Test mg/l
January	_	
February		
March		
April		
May		
June		0.14
July	2.56	
August		
September	0.80	
October	13.00	0.08
November		
December		
Total	16.36	0.22
Avg	5.45	0.11



Pace Analytical* ANALYTICAL REPORT

The state of the s

Ss

Cn

Sr

Qc

GI

Sc

Town of Baileyton WWTP

Sample Delivery Group:

L1338918

Samples Received:

04/15/2021

Project Number:

Description:

Report To:

Mr. Danny Neely

6530 Horton Highway

Greeneville, TN 37745

Entire Report Reviewed By:

Jennifer Hackaba

Jennifer Huckaba Project Manager

Results relate only to the Items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, additionable to the accuracy of the information provided.

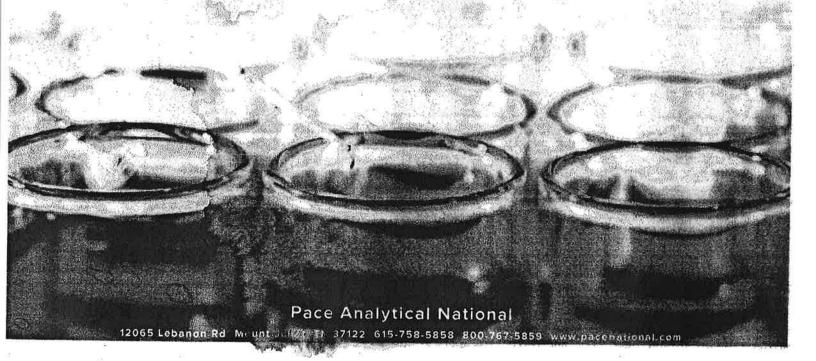


TABLE OF CONTENTS

	Opt Cover Page		
	To: Table of Contants		() ()
	Ss: Sample Summary		
	Cn: Case Narrative		3
			4
	Sr: Sample Results	ļ	5
	SLUDGE L1338918-01	ļ	5
	Qc: Quality Control Summary		6
	Total Solids by Method 2540 G-2011		6
	Wet Chemistry by Method 350.1		7
	Wet Chemistry by Method 4500NOrg C-2011	1	8
	Wet Chemistry by Method 9056A	4	9
	Mercury by Method 7471A	10)
	Metals (ICP) by Method 6010B	1	
(GI: Glossary of Terms	12	
£	Al: Accreditations & Locations	13	
S	Sc: Sample Chain of Custody	- 1/	

Sr

Ğl

⁹Sc

SAMPLE SUMMARY

SLUDGE L1338918-01 Solid			Danny P. Neely	04/14/21 10:30	04/15/21 08:1	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1655855	1	04/26/21 03:52	04/26/21 05:05	CAT	Mt. Juliet. TN
Wet Chemistry by Method 350.1	WG1654834	1	04/22/21 03:50	04/24/21 17:41	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500NOrg C-2011	WG1655245	5	04/21/21 13:34	04/22/21 17:08	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655454	1	04/20/21 23:10	04/21/21 05:38	MCG	Mt. Juliet, TN
Mercury by Method 7471A	WG1652916	1	04/19/21 17:21	04/20/21 09:32	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1652707	.1	04/19/21 07:13	04/21/21 05:08	CCE	Mt. Juliet, TN



















CASE NARRATIVE

THE RESERVE OF THE PROPERTY OF

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



















Jennifer Huckaba Project Manager

Jennifer Huckaba

Project Narrative

Sample -02 was canceled due to holding time and will be recollected at a later date.

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

























Jennifer Huckaba Project Manager

Jennifer Huckaba

Sample -02 was canceled due to holding time and will be recollected at a later date.

SLUDGE Collected date/time: 04/14/21 10:30

SAMPLE RESULTS - 01

Total Solids by Method 2540 G-2011

						- 1	8
	Result	Qualifler	Dilution	Analysis	Batch	1	1
Analyte Total Salida	%		omerica i	date / time			
Total Solids	1.19	Q	1	04/26/2021 05:05	WG1655855	-	1

Wet Chemistry by Method 350.1

1000	Result (wet)	RDL (Wet)	Result (dry)	RDL (dry)	Qualifier	Dilution	Analysis	Batch
Analyte	mg/kg	mg/kg	mg/kg	mg/kg			date / time	
Ammonia Nitrogen	ND	10.0	ND	840	The sectod of the	1	04/24/2021 17:41	WG1654834



Cn

Wet Chemistry by Method 4500NOrg C-2011

Book 4	Result (wet)	RDL (Wet)	Result (dry)	RDL (dry)	Qualifier	Dilution	Analysis	Batch
Analyt e Kjeldahi Nitrogen, TKN	mg/kg 1300	mg/kg 100	mg/kg 110000	mg/kg 8400	(**(*): *(***)) * 2	5	date / time 04/22/2021 17:08	WG1655245



Wet Chemistry by Method 9056A

Analyte	Result (wet)	RDL (Wet)	Result (dry)	RDL (dry)	Qualifier	Dilution	Analysis	Batch
Nitrate as (N)	mg/kg ND	mg/kg 10.0	mg/kg ND	mg/kg 840	1.040.00	1	date / time 04/21/2021 05:38	WG1655454



Mercury by Method 7471A

	Result (wet)	RDL (Wet)	Result (dry)	RDL (dry)	Qualifler	Difution	Analysis	Batch
Analyte	mg/kg	mg/kg	mg/kg	mg/kg			date / time	
Mercury	ND	0.0400	ND	3.36		1	04/20/2021 09:32	WG1652916

Metals (ICP) by Method 6010B

	Result (wet)	RDL (Wet)	Result (dry)	RDL (dry)	Qualifier	Dilution	Analysis	Batch
Analyte	mg/kg	mg/kg	mg/kg	mg/kg			date / tlme	
Arsenic	ND	0.200	ND	16.8	9 Y 1 1 1 1 1 1 1 1 1	1	04/21/2021 05:08	WG1652707
Cadmlum	ND.	0.0500	ND	4.20	and the trans	district.	04/21/2021 05:08	La south to Soverence up and the
Copper	1.91	0.200	161	16.8	e se al little file and	195-9	Sold state of the seasons.	WG1652707
Lead	0.113	0.0500	9.53	4.20	198 8000	19-10-17-1	04/21/2021 05:08	WG1652707
Molybdeпum	0.0647	0.0500	5.44	X ,	1.18	rafe 13°-	04/21/2021 05:08	WG1652707
Nickel:	ND (0.200	THE RESERVE OF THE PERSON	4.20	S RESERVE AND	3	04/21/2021 05:08	WG1652707
Selenlum		A. 15. A.	ND	16.8	Enst III - 1 - 1 A	1	04/21/2021 05:08	WG1652707
Zinc	ND	0.200	ND	16.8	over the same	J	04/21/2021 05:08	WG1652707
	8.93	0.500	751	42.0		1	04/21/2021 05:08	WG1652707

nod Blank (MB)
3546848-1 04/26/21 05:05 MB Result MB Qualifier MB MDL MB RDL % % % olids 0.000
:9634-01 Original Sample (OS) • Duplicate (DUP) .1339634-01 04/26/21 05:05 • (DUP) R3646848-3 04/26/21 05:05
PD DUP Qualifier Limits % %
¥
States 20 APRIVIONE Sample (LCS)
Spike Amount LCS Rec. Rec. Limits LCS Qualifier 8 % % % 9 olids 50.0 100 85.0-115

QUALITY CONTROL SUMMARY

Solids by Method 2540 G-2011

31655855

DATE/TIME: 04/27/2110:36

ACCOUNT: Town of Balleyton WMTP

10-		
	9.55	
		4.
4.	30.1	- 10
		1/4/
40.1	20.70	
-		
	the co	
		50.4
	41.0	
V. S.	7.8.	
	4	-
- 61		
		-
	ž.,	
-	100	- "
		-
	300	
		= (2.4)
		- 7
		10.2
	1.5	
	7.30	-
523	14.5	
-	-	
		- 3.2
	•	- 5
-	-	
- 6	n	
	-	-
-	-	-
- 10	n	
•	•	100
750		-
-	-	_
-		
	2.	-
	\sim	**
-		-
* 6.55		-
	~	-
	0.0	
	_	
-	_	. 4)
-	-	ē
1		he
140	<u>_</u>	Che
140	'n	2 he
140	1004634	Che
140	'n	3he
140	'n	Che
1	'n	Che
140	'n	Che
140	'n	Che
110	'n	Che

QUALITY CONTROL SUMMARY

10d Blank (MB)

### 138/46-07 Original Sample (OS) • Duplicate (DUP) ### 138/46-07 Original Result	na ividogen	Mb Kesuit MB Qualifler mg/kg	ier MB MDL mg/kg 7.00	MB RDL mg/kg 10.0		0.00		32°	l l	30 0 10 500		, E	
Original Result	3146-07 Original Sam	ا (OS) عاطر	uplicate (D	(AD)									
a Nitrogen 1040 1060 1 1.77 20 ratory Control Sample (L.C.S.) 3646147-2 04/23/2117:54 Spike Amount LCS Rec. I Rec. Limits LCS Qualifier mg/kg % % Nitrogen 500 545 109 90.0-110	.338146-07 04/23/2117:59 • Original (dry)	(DUP) R3646147- Result DUP Result (dry)	-3 04/23/21 18;1 t Dilution	RPD	DUP Qualifier	DUP RPD Limits							
Control Sample (LCS) 2. 04/23/21 f7:54 Spike Amount LCS Rec. Limits LCS Qualifier mg/kg mg/kg % % 500 545 109 90.0-110	±	1060) 6	900	20		8	9		ž.	3 E	1
Spike Amount LCS Rec. Rec. Limits LCS Qualifier mg/kg % % 500 545 109 90.0-110	ratory Control Sampl 3646147-2 04/23/21 17-54	e (I.CS)											
		nount LCS Result mg/kg 545	4	Rec. Limits % 90.0-110	LCS Qual	filer	*	Aller of the state	1	the distance of	1		

		Σ	•	(1)
		Dilution Rec. Limits	8	000
SD)		Dilution		-
uplicate (M.	21 18:03	MSD Rec.	%	95.0
k Spike D	47-5 04/23/2	MS Rec.	%	93.3
S) - Matrix	ASD) R36461	MSD Result (dry)		3310
x Spike (M	23/2118:01 · (N	MS Result (dry)		3270 33
OS) • Matri	3646147-4 04/	Original Result (dry)		1040 3270
nal Sample (/2117:59 · (MS) R	Spike Amount Original Result MS Result (dry) MSD Result (dry) (dry) (dry)	тд/кд	200
:8146-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)	.1338146-07 04/23/21 17:59 · (MS) R3646147-4 04/23/21 18:01 · (MSD) R3646147-5 04/23/21 18:03		A)	nia Nitrogen

RPO Limits

8

MSD Qualifler

MS Qualifler

% %

% 1₂₉

80.0-120

93.3 96

3310

	100	PAGE:	7 of 14
		ü	36
o total man man		DATE/TIM	04/27/21:10:
-			
	É	500	1338918
TOTAL STORY			The state of the s
			/ ()
A STATE OF THE PARTY OF THE PAR	PROJECT		

Town of Balleyton WWTP

33645376-1 04/22/21 16:31 MB Result MB Qualifier MB MDL MB RDL mg/kg mg/kg it Nitrogen, TKN U 4.48 20.0		
(DUP) F		SS S
mg/kg mg/kg % % % I Nitrogen, TKN 110000 126000 5 14.3 20 Dratory Control Sample (LCS)		Š
Result Rg		ID G
i Nitrogen, TKN 596 588 98.7 75.2-121 :7525-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)	(OSM)	S
1337525-01 04/22/21 16:34 · (MS) R3645376-3 04/22/21 16:35 · (MSD) R3645376-4 04/22/21 16:37		
Rec.	ec. Dilution Rec. Limits <u>MS Qualifier</u> MSD Qualifier RPD	RPD Limits
= mg/kg mg/kg mg/kg % % % 11 Nitrogen, TKN 5200 18900 18000 19300 0.000 6.23	% % % % % % % % % % % % % % % % % % %	96

5,76

DATE/TIME: 04/27/21 10:36

ACCOUNT: Town of Balleyton WWTP

31655454

Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

od Blank (MB)

	4 THE 2 DOMESTIC ASS.	
	iffier MB MDL MB RDL mg/kg mg/kg 0.557 10.0	Duplicate (DUP)
3644383-1 04/21/21 00:10	MB Result MB Qualiffer mg/kg U	*8462-02 Original Sample (OS) • Duplicate (DUP)

DUP RPD Limits

DUP Qualifier

Difution DUP RPD

Original Result DUP Result

0.0914

9

윤

mg/kg

19246-01 Original Sample (OS) • Duplicate (DUP)

DUP RPD Limits DUP Qualifier 可 Dilution DUP RPD 19.6 .1339246-01 04/21/21 07:30 • (DUP) R3644383-6 04/21/21 07:46 Original Result DUP Result mg/kg 웃 mg/kg Ð

Sc

oratory Control Sample (LCS)

		LCS Qualifier		Area of the second
		Rec. Llmits	88	80.0-120
		LCS Rec.	%	101
1		LCS Result	mg/kg	20.2
	1/21 00:25	Spike Amount LCS Result LCS Rec.	mg/kg	20.0
	R3644383-2 04/21/21 00:25		e e	

:8462-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

				2
		2	RPD Limits	% to
			KPD	% 1.15
		Men of the	MSD GUAINEL	3
		MS Oughton	A Calling	
		MSD Result MS Rec. MSD Rec. Dilution Rec limits	36 % 1	80.0-120
SD		Dilution		-
upiicate (M	21 03:47	MSD Rec.	89	Д Д
LX ODIKE D	4383-5 04/21/	MS Rec.	89	99.5
(IVIO) * IVIGE	1 · (MSD) R364	MSD Result	mg/kg	51.3
שנולה לווזה	04/21/21 03:31	Spike Amount Original Result MS Result	mg/kg	50.7
(00)) R3644383-4	Original Resi	mg/kg	Q
(MSD) width opine (MSD) Wildlin Spike Dupilcate (MSD)	.1338462-02 04/21/21 02:27 • (MS) R3644383-4 04/21/21 03:31 • (MSD) R3644383-5 04/21/21 03:47	Spike Amount	mg/kg	20.0
,	462-02 04/21		WILLIAM CO. P. C. C.	
	1338		m	

L1338918

		SS SS	S S S	
	13 10 10 10 10 10	- 1-	#	
Minimater	3.		RPD Limits %	
			MSD Qualifler RPD %	
ARY	X XBB		MS Qualifier	
QUALITY CONTROL SUMMARY	4 4 4		Dilution Rec. Limits % 1 75.0-125	
Y CONTR	8	뒝	(WS)	
QUALIT		Rec. Limits <u>LCS Quairfier</u> % 80.0-120	S) • Matrix Spike C • (MSD) R36440334 04/, MSD Result MS Rec. mg/kg % 0.510 102	
	MB MDL MB RDL mg/kg 0.0/80 0.0400	J.	pike (MS) • Matr 72108:48 • (MSD) R36 tesult MSD Result g mg/kg 7 0.510	
	MB Result MB Qualifier ME mg/kg mg U	Result og	Sample (OS) • Matrix Spike O8:46 • (MS) R3644033-3 04/20/21 08 Spike Amount Original Result MS Result mg/kg mg/kg mg/kg 0.500 ND 0.527	
6 7471A MB)	MB Result mg/kg	Sample (LCS) R3644033-2 04/20/21 08:43 Spike Amount LCS Result Mg/kg mg/kg mg/kg mg/kg y 0.500 0.533	339009-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate .1339009-01 04/20/21 08:46 • (MS) R3644033-3 04/20/21 08:51 Spike Amount Original Result MS Result MSD Result MSD Rec. MSD Re	
1652916 ury by Method 7471A lod Blank (MB) 3840331 040000 0644	f a h	Pratory Control Sample R3644033-2 04/20/2108:43 Spike An amg/kg y 0.500	.9009-01 Ori	

ury by Method 7471A 31652916

DATE/TIME: 04/27/21 10:36

-
0
2
2
9
$\overline{}$
/ D

QUALITY CONTROL SUMMARY

Is (ICP) by Method 6010B

10d Blank (MB)

2.00 0.500 0.500 2.00 2.00 2.00 MB MDL 0.0471 0.518 0.400 0.208 0.109 0.132 0.764 0.832 MB Qualifier MB Result mg/kg 33644435-1 04/21/21 03:49 Jenum Ę Ę

٦ ص

ğ

Ū

Š

Sc

SS

pratory Control Sample (LCS)

R3644435-2 04/21/21 03:52	1/21/21 03:52					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	
m	mg/kg	mg/kg	%	%		
nes.	100		91.8	80.0-120		
띡	100	92.1	92.1	80.0-120		
	100	101	101	80.0-120		
	100	94.2	94.2	80.0-120		
Jenum	100	2.96	6.7	80.0-120		
	100	93.8	93.8	80,0-120		
LTI.	100	94.1	94.1	80.0-120		
	100	89.8	8.68	80.0-120		

:9545-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

1339545-02 04/21/21 03:55 • (MS) R3644435-5 04/21/21 04:02 • (MSD) R3644435-6 04/21/21 04:05

RPD Limits	×		0 0	30	9. 9	o c	o 6	o (20
	0		• (1 (1 (4 (4 (-	4 (4 6
RPD	96	0.484	0.47	7, 17,	5 5	0.730	3.70	705.0	6.07
MSD Qualifler									
MS Qualifier									
Rec. Limits	%	75.0-125	75.0-125	75.0-125	75.0-125	75.0-125	75.0-125	75.0-125	75.0-125
Dilution		-	÷	-		÷	-	-	-
MSD Rec.	%	83.1	85.6	93.9	86.4	87.7	86.2	85.7	6.77
MS Rec.	9 6	82.7	85.4	96.1	87.6	87.0	89.7	85.4	84.2
MSD Result (dry)	mg/kg	89.4	89.5	105	94.0	91.8	98.5	9.68	106
MS Result (dry)	mg/kg	0.68	89.4	108	95.2	91.1	102	89.3	112
Original Result (dry)	mg/kg	2.62	ND	7.24	3.72	Q.	8.42	QN	24.1
Spike Amount (dry)	mg/kg	105	105	105	105	105	105	105	105.
	an .	••	Ę			Jenum		Шī	

PAGE:

04/27/21 10:36 DATE/TIME:

L1338918 SDG:

PROJECT:

Town of Baileyton WWTP

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

Method Detection Limit. RDL (dry) Reported Detection Limit. Rec. Recovery. RPD Relative Percent Difference. SDG Sample Delivery Group. U Not detected at the Reporting Limit (or MDL where applicable). The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analyte reported. If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this fleic result reported has already been corrected for this factor. These are the target % recovery ranges or % difference value that the laboratory has historically determined as norm for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. Original Sample The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality corresponded within these ranges. Qualifier This column provides a letter and/or number designation that corresponds to additional information concerning the reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. The actual analytical final result (corrected for any sample specific characteristic perported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. The actual analytical final result (corrected for any sample specific characteristic perported for your sample. If there is no potentially a discussion of possible implications of the Qualifier in the Case Narr	(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
RDL Reported Detection Limit. RDL (dry) Reported Detection Limit. REC. Recovery. Recovery. RPD Relative Percent Difference. SDG Sample Delivery Group. Not detected at the Reporting Limit (or MDL where applicable). The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytic reported. If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field result reported has already been corrected for this factor. These are the larget % recovery ranges or % difference value that the laboratory has historically determined as norm for the method and analybe being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. Drighnal Sample The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality consample. The Original Sample may not be included within the reported SDC. This column provides a letter and/or number designation that corresponds to additional information concerning the reported. If a Qualifiler is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. The actual analytical final result (corrected for any sample specific characteristics) proported for your sample. If there no measurable result returned for a specific analyte, the result in this column should always be accompanied by either an MDL or report for this analyte. Result (Below Detectable Levels). The information in the miles column should always be accompanied by either an MDL or report for this nalyte. Results of collection that included sample results,	MDL	Method Detection Limit,
RDL (dry) Reported Detection Limit. Rec. Recovery. RPD Relative Percent Difference. SDG Sample Delivery Group. Not detected at the Reporting Limit (or MDL where applicable). The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytic reported. If the sample matrix contains an interfeting material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this fleic result reported has already been corrected for his factor. These are the target % recovery ranges or % difference value that the laboratory has historically determined as nome for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. The non-spiled sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality cordinated or control of the reported. If a Qualifier is present, a definition per Qualifier is provided within the reported SDG. This column provides a letter and/or number designation that corresponds to additional information concerning the reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. The actual analytical final result (corrected for any sample specific characterist) reported for your sample. If there is no measurable result returned for a specific analyte, the result in this column may state "NDF (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column may state "NDF (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL	ND	Not detected at the Reporting Limit (or MDL where applicable).
Rec. Recovery. Relative Percent Difference. Sample Delivery Group. Not detected at the Reporting Limit (or MDL where applicable). The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analyte reported. If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this factor. These are the target % recovery ranges or % difference value that the laboratory has historically determined as norm for the method and analyte being reported. Successful OC Sample analysis will target all analytes recovered or duplicated within these ranges. The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality consample. The Original Sample may not be included within the reported SDG. This column provides a letter and/or number designation that corresponds to additional information concerning the reported. If a Qualiffer is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier is provided within the Glossary and Definitions page and potentially and discussion of possible implications of the Qualifier is provided within the Case Narrative (Cn) The actual	-	
RPD Relative Percent Difference. SDG Sample Delivery Group. Not detected at the Reporting Limit (or MDL where applicable). The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analyte reported. If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field result reported has altered by been corrected for this factor. These are the target % recovery ranges or % difference value that the laboratory has historically determined as norm for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality coincent of the preported of a Qualifier is present, a definition per Qualifier is provided within the Grossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case sample of a Qualifier is present, a definition per Qualifier is provided within the Grossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case state "ND" (Not Detected) or "BDL" (Below Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could define the Case state "ND" (Not Detected) or "BDL" (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could define the Case Narrative (Cn) observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there we a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. These analyses are no	RDL (dry)	Reported Detection Limit.
Sample Delivery Group. Not detected at the Reporting Limit (or MDL where applicable). The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analyte reported. If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1's used in this field interesult reported has already been corrected for this factor. These are the target % recovery ranges or % difference value that the laboratory has historically determined as norm for the method and analyte being reported. Successful OC Sample analysis will target all analytes recovered or duplicated within these ranges. Driginal Sample The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality consample. The original Sample may not be included within the reported SDG. This column provides a letter and/or number designation that corresponds to additional information concerning the reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there in measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could define the report included sample results, including a discussion of any non-conformances to protocol with the present included the results reported for your samples. These analytes are not being performed on your samples typically, but on laborator	Rec.	Recovery.
Not detected at the Reporting Limit (or MDL where applicable). Analyte The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analyte reported. If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis, if a value different than 1 is used in this fleic result reported has already been corrected for this factor. These are the target % recovery ranges or % difference value that the laboratory has historically determined as norm for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality condupled of the properted. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there is no measurable result returned for a specific analyte, the result in this comm may state "ND" (NOt Detected) or "BDL" (Reporting Detection Limit) or RDL (Reporting Detection Limit) or RDL (Reporting Detection Limit) in RDL (RDL (RDL) in the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples suprially,	RPD	Relative Percent Difference.
Analyte The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analyte reported. If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this fletch result reported has already been corrected for this factor. These are the target % recovery ranges or % difference value that the laboratory has historically determined as norm for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality consample. The Original Sample may not be included within the reported SDC. This column provides a letter and/or number designation that corresponds to additional information concerning the reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. The actual analytical final result (corrected for any sample specific charcetristics) reported for your sample. If there no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could define the part included sample receipt by the laboratory from the field or during the analytical process, if present, there we have a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. This	SDG	Sample Delivery Group.
Analyte The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytic reported. If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field the result reported has already been corrected for this factor. These are the target % recovery ranges or % difference value that the laboratory has historically determined as norm for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality consample. The Original Sample may not be included within the reported SDG. This column provides a letter and/or number designation that corresponds to additional information concerning the reported. If a Qualifier is present, a definition per Qualifier is prior into Case Narrative if applicable. The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there is no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL was a proper for this analyte. Confidence level of 2 sigma. A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there we are accident in the Case Narrative to discuss the meaning of any data qualifiers used in the report. This section of the report includes the results of the laborato	U	Not detected at the Reporting Limit (or MDL where applicable).
laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field result reported has already been corrected for this factor. These are the target % recovery ranges or % difference value that the laboratory has historically determined as norn for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality core sample. The Original Sample may not be included within the reported SDG. This column provides a letter and/or number designation that corresponds to additional information concerning the reported, if a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there is no measurable result returned for a specific analyte, the result into column may state "ND" (Not Detected) or "BDL" (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could define the color of this analyte. Confidence level of 2 sigma. A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process, if present, there we as a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your sample spicially, but on laboratory generated mate	Analyte	The name of the particular compound or analysis performed. Some Analyses and Mothods will have smilled a new to
These are the target % recovery ranges or % difference value that the laboratory has historically determined as norm for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality consample. The Original Sample may not be included within the reported SDG. This column provides a letter and/or number designation that corresponds to additional information concerning the reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there is no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could define the interest of the sample of the sample of the sample receipt by the laboratory from the field or during the analytical process, if present, there we are action in the Case Narrative to discuss the meaning of any data qualifiers used in the report. This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. This is the document created in the field when your samples were initially collected. This is used to verify the time an date of collection, the person collecting the samples, and the analyses that the laborat	Dilution	
This column provides a letter and/or number designation that corresponds to additional information concerning the reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there is no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could define the laboratory could define the laboratory could define the laboratory from the field or during the analytical process. If present, there we assect in the Case Narrative to discuss the meaning of any data qualifiers used in the report. This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. To chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of samples from the time of collection until delivery to the laboratory for analysis. This section of your report will provide the results of all testing performed on your samples. These results are provide each sample will provide the name and method number for the analysis reported.	_imits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all each terrain
Dualifier This column provides a letter and/or number designation that corresponds to additional information concerning the reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there is no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could deform report for this analyte. Confidence level of 2 sigma. A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there we be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. To chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of samples from the time of collection until delivery to the laboratory for analysis. This section of your report will provide the results of all test	Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there we no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could deform report for this analyte. Confidence level of 2 sigma. A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process, if present, there we a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. The samples from the time of collection until delivery to the laboratory for analysis. This section of your report will provide the results of all testing performed on your samples. These results are provide and are separated by the analyses performed on each sample. The header line of each analysis section and the analysis reported. This section of the Analytical Report defines the specific analyses performed to each sample. The header line of each analysis section and the analysis reported.	Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result
Confidence level of 2 sigma. A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there we be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This is exciton of your report will provide the results of all testing performed on your samples. These results are provide sample in an analysis section of your report will provide the name and method number for the analysis reported. This section of the Analytical Report defines the specific analysis performed for yearh assemble. The header line of each analysis section and the analysis reported.	Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the best accompanied by
be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This amples from the time of collection until delivery to the laboratory for analysis. This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section of the Analytical Report delines the specific analyses performed for each sample.		Confidence level of 2 sigma.
In section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. This is the document created in the field when your samples were initially collected. This is used to verify the time an date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. The samples from the time of collection until delivery to the laboratory for analysis. This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section of the Analytical Report delines the specific analysis performed for each sample. The header line of each analysis section of the Analytical Report delines the specific analysis performed for each sample.	ase Narrative (Cn)	
This is the document created in the field when your samples were initially collected. This is used to verify the time an date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. The samples from the time of custody also documents all persons (excluding commercial shippers) that have had control or possession of samples from the time of collection until delivery to the laboratory for analysis. This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section of the Analytical Report delives the specific analyses performed for each sample. This section of the Analytical Report delives the specific analyses performed for each sample.	Quality Control ummary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
This section of your report will provide the results of all testing performed on your samples. These results are provide by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section applies and it is section of the Analytical Report defines the specific analyses performed for each sample. This section of the Analytical Report defines the specific analyses performed for each sample.		This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons laveluding commercial philadelia.
This section of the Analytical Report defines the specific analysis performed for each according	ample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
	ample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each asset in the second section of the Analytical Report defines the specific analyses performed for each asset in the second section of the Analytical Report defines the specific analyses performed for each asset in the second section of the Analytical Report defines the specific analyses performed for each asset in the second section of the Analytical Report defines the specific analyses performed for each asset in the second section of the section of the second section of the section of the second section of the second section of the sectio

Qual	ifler	Description
Е		The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J6 P1		The sample matrix interfered with the ability to make any accurate determination; spike value is low. RPD value not applicable for sample concentrations less than 5 times the reporting limit.
Q		Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.



















ACCREDITATIONS & LOCATIONS

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico 1	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina 1	DW21704
Georgia	NELAP	North Carolina 3	41
Georgia ¹	923	North Dakota	R-140
daho	TN00003	Ohlo-VAP	CL0069
llinols	200008	Oklahoma	9915
ndlana	C-TN-01	Oregon	TN200002
Dwa	364	Pennsylvania	68-02979
ansas	E-10277	Rhode Island	LA000356
entucky 16	KY90010	South Carolina	84004002
entucky ²	16	South Dakota	n/a
ouisiana	Al30792	Tennessee 14	2006
oulslana	LA018	Texas	
aine	TN00003	Texas ⁵	T104704245-20-18 LAB0152
laryland	324	Utah	TN000032021-11
lassachusetts	M-TN003	Vermont	VT2006
lichigan	9958	Virginia	
innesota	047-999-395	Washington	110033
lississippi	TN00003	West Virginia	C847
issouri	340	Wisconsin	233
ontana	CERTO086	Wyomlng	998093910
2LA - ISO 17025	1461,01	AIHA-LAP,LLC EMLAP	A2LA
2LA - ISO 17025 5	1461,02	DOD	100789
anada	1461.01	USDA	1461.01
A-Crypto	TN00003	UJUA	P330-15-00234

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable



















^{*} Not all certifications held by the laboratory are applicable to the results reported in the attached report.

^{*} Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

12065 Lebanon Road Mr. Julier, Th. 37127 Phone: 875-786-5889 Mr. ROY TR-5889 Submitting a sample usachs chain of cashody COSTAIntes & Royal-Regiment and exceptione of the - 62 Sample # (lab only) Shipped Via: FedEX Ground 0 Condition: Page of PM: 3513 - Jennifer Huckaba If preservation required by Login: Date/Time Pace Analytical Sample Receipt Checklist 3-3-21 Acctnum: BAILEY02 relogin: P825482 emplate: T111405 Preservation Correct/Checked: RAD Screen <0.5 mR/hr: COC Seal Present/Intect:
COC Signed/Accurate:
Bottles arrive intect:
Correct bottles used:
Sufficient volume sent:
If Applicable Chain of Custody Remarks VOA Zero Headspace: # 9gs PB: Hold: 5 Analysis / Container / Preservative Yes / MooH Temp: #300. Bottles Received: ò Temp. Other Trip Blank Received: Flow TSSLUDGE 250mlHDPE-NoPres 占 NITRATE, NH3, TKN 250mlHDPE-NOPres Metals 250miHDPE-Nopres FCLS Microbiological × Received for lab by: (Signature) Please Groe Pres Chk Email To. dannyneefy550@yahoo.com;sandra.vance@tn. Cntrs a ō Munda Received by: (Signature) Received by (Signature 030 0801 Time Date Results Needed BAILEY02-SLUDGE Tracking # Greeneville, TN 37745 6530 Horton Highway Lab Project # Date Quote # Billing Information: **Barbara Tilson** P.O.# 1085 1700 5 Day (Rad Only) 10 Day (Rad Only) 4/4 lime: Time: Depth Rush? (Lab MUST Be Notified) Five Day Courier City/State Callected Matrix * 2-41-7 25 SS Site/Facility ID # Same Day Next Day Two Day Three Day Samples returned via: Client Project # CAN Comp/Grab FedEx Remarks: Fown of Baileyton WWTP San B - Broassay ireeneville, TN 37745 × - Soil AIR - Air F - Filter 5530 Horton Highway inquished by (Signatye) Sample ID Parted by (print): hone: 423-620-8208 cred by (signature): and Ar. Danny Neely acked on Ice N roject Description V - Drinking Water V - Groundwater army anavished by (S) W - WasteWater linguished nmediately eport to: - Other UDGE UDGE



Pace Analytical* ANALYTICAL REPORT

Town of Baileyton WWTP

Sample Delivery Group:

L1352054

Samples Received:

05/13/2021

Project Number:

Description:

Report To:

Mr. Danny Neely

6530 Horton Highway

Greeneville, TN 37745

Entire Report Reviewed By:

Jennifer Huckaba

and the state of t

Ss

Cn

Sr

ĞI

Sc

Jennifer Huckaba Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



TABLE OF CONTENTS

4	
To 3 able of Coatents	
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
SLUDGE L1352054-01	5
GI: Glossary of Terms	6
Al: Accreditations & Locations	7
Sc: Sample Chain of Custody	-

SAMPLE SUMMARY

1000

05/13/21 12:03

05/13/21 12:03

Analyst

MEL

Location

Mt. Juliet, TN

Collected date/time Received date/time Collected by SLUDGE L1352054-01 Solid Danny P Neely 05/12/21 12:15 05/13/21 08:00 Method Batch Dilution Preparation Analysis date/time date/time Microbiology by Method EPA 1681 WG1670212



















CASE NARRATIVE

GI

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jennifer Huckaba

Jennifer Huckaba

Project Manager

SLUDGE Collected date/time: 05/12/21 12:15

SAMPLE RESULTS - 01

Microbiology by Method EPA 1681

	Result	Qualifier	Dilution	Analysis	Batch	
Analyte	MPN/g			date / time		
Fecal Coliform -Geom.Mean	<18565.77		1000	05/13/2021 12:03	WG1670212	
Fecal Coliform -1	20077.12		1000	05/13/2021 12:03	WG1670212	
Fecal Collform -2	<18035.79		1000	05/13/2021 12:03	WG1670212	
Fecal Coliform -3	<18149.87		1000	05/13/2021 12:03	WG1670212	
Fecal Coliform -4	<18066.53		1000	05/13/2021 12:03	WG1670212	
Fecal Coliform -5	19795.72		1000	05/13/2021 12:03	WG1670212	
Fecal Coliform -6	<18100.22		1000	05/13/2021 12:03	WG1670212	
Fecal Coliform -7	<17871.05		1000	05/13/2021 12:03	WG1670212	















GLOSSARY OF TERMS

and the second of the second o

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

Qualifier

Description

SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radlochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

A THEOREM AND A STATE OF THE PARTY OF THE PA

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico 1	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina 1	DW21704
Georgia	NELAP	North Carolina 3	41
Georgia ¹	923	North Dakota	R-140
ldaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
ndlana	C-TN-01	Oregon	TN200002
owa	364	Pennsylvania	68-02979
(ansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Centucky ²	16	South Dakota	n/a
oulsiana	Al30792	Tennessee 1.4	2006
ouIslana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Naryland	324	Utah	TN000032021-11
lassachusetts	M-TN003	Vermont	VT2006
lichigan .	9958	Virginia	110033
linnesota	047-999-395	Washington	C847
lississippi	TN00003	West Virginia	233
lissouri	340	Wisconsin	998093910
fontana	CERTO086	Wyoming	A2LA
2LA - ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
2LA - ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
PA-Crypto	TN00003		7 550-15-00254

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

















^{*} Not all certifications held by the laboratory are applicable to the results reported in the attached report.

^{*} Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

mpany Name/Address:		Billing Information:	tion:			Analysis		Container / Preservative		Chain of Custody	Page of
own of Baileyton WWTP	TP	Barbara Tilson	on Niehway	O 39	Pres Chk				TA .	E	.
30 Horton Highway eeneville, TN 37745	150	Greeneville, TN 37745	TN 37745	ſ					, C	- / Pacu	eace Analytical
port to: r. Danny Neely		Email To:	Email To: dannyneely550@yahoo.com;sandra.vance@tn.	andra.vance@	5		1000			12765 tebanda Rd Edouarthwer, IN 37127 Sagmitting a sample we this chain of customs	etdunet IN 37472 Prochamat sustant
oject Description:	City/State Collected:			Please Circle.						Page Terms and Committee Fand acceptance of Page Terms and Committee Frank 38 Mittel (India, paged the lever) bushed my attendand terms put	Constitutes at the secretify then and acceptabilities of the Pare The ren and Consistions from that https://info.parchists.com/hearts/secretaintland- terms.pdf
one: 423-620-8208	Client Project #	89 (2)	Lab Project # BAILEY02-SLUDGE		* *		constant of the constant of th	ļo.	1	_	E918,004
April 1 acts	Site/Facility (D#	P	P.O. #		al	100		IN T	i Ri	Acctnum: BAILEY02	EY02
Jack of Milliams	Rush? (Lab MUST Be Notified)Same Day five Day		Quote #		ologic				200	Template:T185918	360
mediately y	Next Day 5 D	5 Day (Rad Only) 10 Day (Rad Only)	Date Results Needed	Veeded Vo.	Alcrob		0.65	, de	960	PM: 3513 - Jennifer Huckaba	ennifer Huckaba
Sample ID	Comp/Grab Matrix =	Depth	Date	Time intrs	N. Andrews		. 12.0		, di		dEX Ground
DOCE	GEAS SS	N/A S	5-12-21	1215	× F		- 1 (1) (1) (2) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4				7
						10		i i			
And the second s								R/h:			
						g					
					i je						
				4							
- Soil AIR - Air F - Filter and V - Groundwater B - Bioassay	memarks: Please collect in the afternoon and also notify lab when it should be coming in for an alert to log-in.	the atternoon a	nd also notify	lab when it st	rould be comi	ng in for pH		Temp	COC Signed	Sample Receipt Checklist COC Seal Present/Intact: HP COC Signed/Accounte:	177
- Other Sam	Samples returned via:UPS FedEx courier		Tracking #						Correct bo	Correct bottles used: Sufficient volume sent: If Applicable	
Edward of : (Signature) Med	S -12-21	7 12%	Resserved	by: (Signature)	2	Trip B	ank Received	Yes / No HCL / MeoH	RAD Screen	Preservation Correct/Checked: RAD Screen <0.5 mR/hr:	ked: Y N
inquished by (Signature)	5-12-21			Received by: (Signature)	D	Temp:	2. °C	Bottles Received:	If preservatio	If preservation required by Login: Date/Time	v: Date/Time
7	Date:	Time	Received for lab by	- S	ature)	32 mg	(5d) 1 m	B _C CU	Hold:		Condition: NCF / Ox
			10		0	7					