

ANALYTICAL REPORT

Lab Number:	L1403022
Client:	TRC Environmental Consultants
	Wannalancit Mills
	650 Suffolk Street
	Lowell, MA 01854
ATTN:	Melita Lihzis
Phone:	(978) 656-3600
Project Name:	MONTGOMERY COUNTY RRF
Project Number:	200454.0000.0000
Report Date:	02/21/14

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320 Forbes Boulevard, Mansfield, MA 02048-1806 508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name:	MONTGOMERY COUNTY RRF
Project Number:	200454.0000.0000

 Lab Number:
 L1403022

 Report Date:
 02/21/14

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1403022-01	B'VILLE-METALS-1-PRI	MARYLAND	01/29/14 13:31
L1403022-02	B'VILLE-METALS-1-COL	MARYLAND	01/29/14 13:31
L1403022-03	LUCK-METALS-1-PRI	MARYLAND	01/29/14 10:27
L1403022-04	FBB-METALS-1	MARYLAND	01/29/14 13:31



Project Name:MONTGOMERY COUNTY RRFProject Number:200454.0000.0000

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Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.



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Case Narrative (continued)

Particulate in Air

WG669299-1 Duplicate: Per the method, one sample in ten is to be weighed in duplicate. This duplicate weighing is reported on the Lab Duplicate Analysis page of the report. The duplicate weight of the sample filter L1403022-01 was within the method criteria of 2.0 mg.

Metals in Air

The WG670740-3 Laboratory Duplicate RPD, performed on L1403022-01, is above the acceptance criteria for Arsenic (23%) and Cadmium (70%) however the sample and duplicate results are less than five times the reporting limit therefore no further action is required.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Christopher J. Anderson

Authorized Signature:

Title: Technical Director/Representative

Date: 02/21/14



METALS



Project Name:	MONT	GOMERY	COUNT	Y RRF			Lab Nu	mber:	L1403	022	
Project Number:	20045	4.0000.000	0				Report	Date:	02/21/	'14	
				SAMPL	E RES	ULTS					
Lab ID:	L1403	022-01					Date Co	ollected:	01/29/	/14 13:31	
Client ID:	B 'VILL	E-METALS	S-1-PRI				Date Re	eceived:	02/07/	′14	
Sample Location:	MARY	'LAND					Field Pr	rep:	Not S	pecified	
Matrix:	Wipe										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansf	ield Lab										

Arsenic, Total	0.981	ug/filter	0.450	 2	02/17/14 09:10 02/19/14 11:45 EPA 3050B	1,6020A	PD
Beryllium, Total	ND	ug/filter	0.270	 2	02/17/14 09:10 02/19/14 11:45 EPA 3050B	1,6020A	PD
Cadmium, Total	0.351	ug/filter	0.180	 2	02/17/14 09:10 02/19/14 11:45 EPA 3050B	1,6020A	PD
Chromium, Total	ND	ug/filter	45.0	 2	02/17/14 09:10 02/19/14 11:45 EPA 3050B	1,6020A	PD
Lead, Total	2.79	ug/filter	0.540	 2	02/17/14 09:10 02/19/14 11:45 EPA 3050B	1,6020A	PD
Mercury, Total	ND	ug/filter	0.045	 1	02/17/14 09:10 02/18/14 13:01 EPA 7471B	1,7471B	PD
Nickel, Total	1.38	ug/filter	0.900	 2	02/17/14 09:10 02/19/14 11:45 EPA 3050B	1,6020A	PD



Project Name:	MONT	GOMERY	COUNTY	′ RRF			Lab Nu	mber:	L1403	L1403022	
Project Number:	20045	4.0000.000	00				Report	Date:	02/21/	02/21/14	
				SAMPL	E RES	ULTS					
Lab ID:	L1403	022-02					Date Co	ollected:	01/29/	14 13:31	
Client ID:	B 'VILL	E-METALS	S-1-COL				Date Re	eceived:	02/07/	'14	
Sample Location:	MARY	LAND					Field Pr	ep:	Not Sp	pecified	
Matrix:	Wipe										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansf	ield Lab										

Arsenic, Total	1.11	ug/filter	0.450	 2	02/17/14 09:10 02/19/14 11:46 EPA 3050B	1,6020A	PD
Beryllium, Total	ND	ug/filter	0.270	 2	02/17/14 09:10 02/19/14 11:46 EPA 3050B	1,6020A	PD
Cadmium, Total	3.04	ug/filter	0.180	 2	02/17/14 09:10 02/19/14 11:46 EPA 3050B	1,6020A	PD
Chromium, Total	ND	ug/filter	45.0	 2	02/17/14 09:10 02/19/14 11:46 EPA 3050B	1,6020A	PD
Lead, Total	4.10	ug/filter	0.540	 2	02/17/14 09:10 02/19/14 11:46 EPA 3050B	1,6020A	PD
Mercury, Total	ND	ug/filter	0.045	 1	02/17/14 09:10 02/18/14 13:04 EPA 7471B	1,7471B	PD
Nickel, Total	1.71	ug/filter	0.900	 2	02/17/14 09:10 02/19/14 11:46 EPA 3050B	1,6020A	PD



1,6020A

1,6020A

1,6020A

1,6020A

1,7471B

1,6020A

PD

PD

PD

PD

PD

PD

02/17/14 09:10 02/19/14 11:47 EPA 3050B

02/17/14 09:10 02/18/14 13:06 EPA 7471B

02/17/14 09:10 02/19/14 11:47 EPA 3050B

Project Name:	MONT	GOMERY	COUNTY		Lab Nu	mber:	L14030	22			
Project Number:	20045	4.0000.00	00				Report	Date:	02/21/1	4	
				SAMPL	E RES	ULTS					
Lab ID:	L1403	022-03					Date Co	ollected:	01/29/1	4 10:27	
Client ID:	LUCK	-METALS-	1-PRI				Date Re	eceived:	02/07/1	4	
Sample Location:	MARY	'LAND					Field Pr	ep:	Not Spe	ecified	
Matrix:	Wipe										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansf	ield Lab										
Arsenic, Total	1.02		ug/filter	0.450		2	02/17/14 09:1	0 02/19/14 11:47	EPA 3050B	1,6020A	PD



Beryllium, Total

Cadmium, Total

Chromium, Total

Lead, Total

Mercury, Total

Nickel, Total

ND

ND

3.05

ND

1.15

0.312

ug/filter

ug/filter

ug/filter

ug/filter

ug/filter

ug/filter

0.270

0.180

45.0

0.540

0.045

0.900

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2

2

2

2

1

Project Name:MONTGOMERY COUNTY RRFLab Number:L1403022Project Number:200454.0000.0000Report Date:02/21/14SAMPLE RESULTSLab ID:L1403022-04Date Collected:01/29/14 13:31Client ID:FBB-METALS-1Date Received:02/07/14Sample Location:MARYLANDField Prep:Not SpecifiedMatrix:WipeKateKateKate	Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Project Number: 200454.0000.0000 Report Date: 02/21/14 SAMPLE RESULTS Date Collected: 01/29/14 13:31 Lab ID: L1403022-04 Date Collected: 01/29/14 13:31 Client ID: FBB-METALS-1 Date Received: 02/07/14	Matrix:	Wipe							-	-		
Project Number: 200454.0000.0000 Report Date: 02/21/14 SAMPLE RESULTS Date Collected: 01/29/14 13:31	Sample Location:	MARY	LAND					Field Pr	ep:	Not S	pecified	
Project Number: 200454.0000.0000 Report Date: 02/21/14 SAMPLE RESULTS	Client ID:	FBB-M	IETALS-1					Date Re	eceived:	02/07/	′14	
Project Number: 200454.0000.0000 Report Date: 02/21/14	Lab ID:	L1403	022-04					Date Co	ollected:	01/29/	/14 13:31	
-					SAMPL	E RES	ULTS					
Project Name:MONTGOMERY COUNTY RRFLab Number:L1403022	Project Number:	20045	4.0000.000	0				Report	Date:	02/21/	′14	
	Project Name:	MONT	GOMERY	COUNT	Y RRF			Lab Nu	mber:	L1403	022	

Total Metals - Mar	nsfield Lab					
Arsenic, Total	ND	ug/filter	0.450	 2	02/17/14 09:10 02/19/14 11:29 EPA 3050B 1,6020	A PD
Beryllium, Total	ND	ug/filter	0.270	 2	02/17/14 09:10 02/19/14 11:29 EPA 3050B 1,6020	A PD
Cadmium, Total	ND	ug/filter	0.180	 2	02/17/14 09:10 02/19/14 11:29 EPA 3050B 1,6020	A PD
Chromium, Total	ND	ug/filter	45.0	 2	02/17/14 09:10 02/19/14 11:29 EPA 3050B 1,6020	A PD
Lead, Total	ND	ug/filter	0.540	 2	02/17/14 09:10 02/19/14 11:29 EPA 3050B 1,6020	A PD
Mercury, Total	ND	ug/filter	0.045	 1	02/17/14 09:10 02/18/14 13:09 EPA 7471B 1,7471	B PD
Nickel, Total	ND	ug/filter	0.900	 2	02/17/14 09:10 02/19/14 11:29 EPA 3050B 1,6020	A PD



Project Name:MONTGOMERY COUNTY RRFProject Number:200454.0000.0000

 Lab Number:
 L1403022

 Report Date:
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Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield	d Lab for sample(s):	01-04 Ba	atch: W	G67074	0-1				
Arsenic, Total	ND	ug/filter	0.450		2	02/17/14 09:10	02/19/14 11:16	5 1,6020A	PD
Beryllium, Total	ND	ug/filter	0.270		2	02/17/14 09:10	02/19/14 11:16	1,6020A	PD
Cadmium, Total	ND	ug/filter	0.180		2	02/17/14 09:10	02/19/14 11:16	5 1,6020A	PD
Chromium, Total	ND	ug/filter	45.0		2	02/17/14 09:10	02/19/14 11:16	5 1,6020A	PD
Lead, Total	ND	ug/filter	0.540		2	02/17/14 09:10	02/19/14 11:16	5 1,6020A	PD
Nickel, Total	ND	ug/filter	0.900		2	02/17/14 09:10	02/19/14 11:16	5 1,6020A	PD

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Quali	fier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytica Method	
Total Metals - Mansfield	Lab for sample	e(s): 01-04	Batch:	WG67074	41-1				
Mercury, Total	ND	ug/filte	r 0.04	5	1	02/17/14 09:10	02/18/14 12:55	5 1,7471B	PD

Prep Information

Digestion Method: EPA 7471B



Lab Control Sample Analysis Batch Quality Control

Project Name: MONTGOMERY COUNTY RRF

Project Number: 200454.0000.0000 Lab Number: L1403022 Report Date: 02/21/14

arameter	LCS %Recovery		CSD covery Qual	%Recovery Limits	RPD	Qual	RPD Limits
otal Metals - Mansfield Lab Associated sample	(s): 01-04 Bate	ch: WG670740-2	SRM Lot Number:	A2METSPIKE			
Arsenic, Total	92		-	75-125	-		20
Beryllium, Total	86		-	75-125	-		20
Cadmium, Total	92		-	75-125	-		20
Chromium, Total	88		-	75-125	-		20
Lead, Total	93		-	75-125	-		20
Nickel, Total	90		-	75-125	-		20
otal Metals - Mansfield Lab Associated sample	(s): 01-04 Bate	ch: WG670741-2	SRM Lot Number:	HPHGAA			
Mercury, Total	105			80-120	-		20



Matrix Spike Analysis Batch Quality Control

Project Name: MONTGOMERY COUNTY RRF

Project Number: 200454.0000.0000

 Lab Number:
 L1403022

 Report Date:
 02/21/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery C	Recovery Qual Limits	RPD Qu	RPD ual Limits
Total Metals - Mansfield Lab	Associated san	nple(s): 01-04	QC Bat	ch ID: WG670	740-4	QC Samp	ole: L1403022-01	Client ID: B'VI	LLE-META	LS-1-PRI
Arsenic, Total	0.981	1800	1750	97		-	-	75-125	-	20
Beryllium, Total	ND	900	830	92		-	-	75-125	-	20
Cadmium, Total	0.351	900	915	102		-	-	75-125	-	20
Chromium, Total	ND	1800	1730	96		-	-	75-125	-	20
Lead, Total	2.79	1800	1880	104		-	-	75-125	-	20
Nickel, Total	1.38	1800	1770	98		-	-	75-125	-	20
Total Metals - Mansfield Lab	Associated san	nple(s): 01-04	QC Bat	ch ID: WG670	741-4	QC Samp	ole: L1403198-01	Client ID: MS	Sample	
Mercury, Total	ND	1.125	1.16	103		-	-	80-120	-	20



Lab Duplicate Analysis Batch Quality Control

Project Name: MONTGOMERY COUNTY RRF Project Number: 200454.0000.0000

Lab Number: L1403022 02/21/14 Report Date:

Parameter	Native Sample	Duplic	Duplicate Sample Units		RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-0	4 QC Batch ID:	WG670740-3	QC Sample:	L1403022-01	Client ID:	B'VILLE-ME	TALS-1-PRI
Arsenic, Total	0.981		1.23	ug/filter	23	Q	20
Beryllium, Total	ND		ND	ug/filter	NC		20
Cadmium, Total	0.351		0.726	ug/filter	70	Q	20
Chromium, Total	ND		ND	ug/filter	NC		20
Lead, Total	2.79		3.18	ug/filter	13		20
Nickel, Total	1.38		1.47	ug/filter	6		20
otal Metals - Mansfield Lab Associated sample(s): 01-0	4 QC Batch ID:	WG670741-3	QC Sample:	L1403198-01	Client ID:	DUP Sampl	е
Mercury, Total	ND		ND	ug/filter	NC		20



AIR



		Serial_No:	02211413:57
Project Name:	MONTGOMERY COUNTY RRF	Lab Number:	L1403022
Project Number:	200454.0000.0000	Report Date:	02/21/14
	SAMPLE RESULTS		
Lab ID:	L1403022-01	Date Collected:	01/29/14 13:31
Client ID:	B'VILLE-METALS-1-PRI	Date Received:	02/07/14
Sample Location:	MARYLAND	Field Prep:	Not Specified
Matrix:	Wipe	Extraction Method:	
Analytical Method:	106,IO-3.1		
Analytical Date:	02/11/14 11:00		
Analyst:	LB		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Suspended particulates, total (TSP)						
Filter Number	303135		-		NA	1
Initial Sample Weight	4.5481		g		NA	1
Final Weight	4.5771		g		NA	1
Sample Weight	0.0290		g		NA	1



		Serial_No:	02211413:57
Project Name:	MONTGOMERY COUNTY RRF	Lab Number:	L1403022
Project Number:	200454.0000.0000	Report Date:	02/21/14
	SAMPLE RESULTS		
Lab ID:	L1403022-02	Date Collected:	01/29/14 13:31
Client ID:	B'VILLE-METALS-1-COL	Date Received:	02/07/14
Sample Location:	MARYLAND	Field Prep:	Not Specified
Matrix:	Wipe	Extraction Method:	
Analytical Method:	106,IO-3.1		
Analytical Date:	02/11/14 11:00		
Analyst:	LB		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Suspended particulates, total (TSP)						
Filter Number	303116		-		NA	1
Initial Sample Weight	4.5885		g		NA	1
Final Weight	4.6181		g		NA	1
Sample Weight	0.0296		g		NA	1



		Serial_No:02211413:57
Project Name:	MONTGOMERY COUNTY RRF	Lab Number: L1403022
Project Number:	200454.0000.0000	Report Date: 02/21/14
	SAMPLE RESULTS	
Lab ID:	L1403022-03	Date Collected: 01/29/14 10:27
Client ID:	LUCK-METALS-1-PRI	Date Received: 02/07/14
Sample Location:	MARYLAND	Field Prep: Not Specified
Matrix:	Wipe	Extraction Method:
Analytical Method:	106,IO-3.1	
Analytical Date:	02/11/14 11:00	
Analyst:	LB	

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Suspended particulates, total (TSP)						
Filter Number	303134		-		NA	1
Initial Sample Weight	4.6031		g		NA	1
Final Weight	4.6431		g		NA	1
Sample Weight	0.0400		g		NA	1



		Serial_No:02211413:57
Project Name:	MONTGOMERY COUNTY RRF	Lab Number: L1403022
Project Number:	200454.0000.0000	Report Date: 02/21/14
	SAMPLE RESULTS	
Lab ID:	L1403022-04	Date Collected: 01/29/14 13:31
Client ID:	FBB-METALS-1	Date Received: 02/07/14
Sample Location:	MARYLAND	Field Prep: Not Specified
Matrix:	Wipe	Extraction Method:
Analytical Method:	106,IO-3.1	
Analytical Date:	02/11/14 11:00	
Analyst:	LB	

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Suspended particulates, total (TSP)						
Filter Number	303117		-		NA	1
Initial Sample Weight	4.5819		g		NA	1
Final Weight	4.5800		g		NA	1
Sample Weight	-0.0019		g		NA	1



Project Name: Project Number:	MONTGOMERY COUNT 200454.0000.0000	Y RRF		Lab Duplicate Analysis Batch Quality Control			Lab Nur Report I		L1403022 02/21/14
Parameter		Native Samp	le Di	uplicate Sample	Units	RPD	Qual	RPD Limits	
Suspended particulates, PRI	total (TSP) Associated san	nple(s): 01-04	QC Batch ID	: WG671441-1	QC Sample:	L1403022-01	Client ID:	B'VILLE-M	ETALS-1-
Final Weight		4.5771		4.5765	g	NC			

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Project Name:	MONTGOMERY COUNTY RRF
Project Number:	200454.0000.0000

Lab Number: L1403022 Report Date: 02/21/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal Cooler

N/A

Absent

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рΗ	deg C	Pres	Seal	Analysis(*)
L1403022-01A	Filter-PM10	N/A	N/A		Υ	Absent	A2-PM10-CD-6020T(180),A2- PM10-CR-6020T(180),A2- PM10-NI-6020T(180),A2-PM10- HG-7471T(28),A2-PM10-AS- 6020T(180),PARTICULATE- TSP(),A2-PM10-BE- 6020T(180),A2-PM10-PB- 6020T(180)
L1403022-02A	Filter-PM10	N/A	N/A		Y	Absent	A2-PM10-CD-6020T(180),A2- PM10-CR-6020T(180),A2- PM10-NI-6020T(180),A2-PM10- HG-7471T(28),A2-PM10-AS- 6020T(180),PARTICULATE- TSP(),A2-PM10-BE- 6020T(180),A2-PM10-PB- 6020T(180)
L1403022-03A	Filter-PM10	N/A	N/A		Y	Absent	A2-PM10-CD-6020T(180),A2- PM10-CR-6020T(180),A2- PM10-NI-6020T(180),A2-PM10- HG-7471T(28),A2-PM10-AS- 6020T(180),PARTICULATE- TSP(),A2-PM10-BE- 6020T(180),A2-PM10-PB- 6020T(180)
L1403022-04A	Filter-PM10	N/A	N/A		Y	Absent	A2-PM10-CD-6020T(180),A2- PM10-CR-6020T(180),A2- PM10-NI-6020T(180),A2-PM10- HG-7471T(28),A2-PM10-AS- 6020T(180),PARTICULATE- TSP(),A2-PM10-BE- 6020T(180),A2-PM10-PB- 6020T(180)



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GLOSSARY

Acronyms

- EDL Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
- EPA Environmental Protection Agency.
- LCS Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD Laboratory Control Sample Duplicate: Refer to LCS.
- LFB Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- MDL Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MSD Matrix Spike Sample Duplicate: Refer to MS.
- NA Not Applicable.
- NC Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NI Not Ignitable.
- RL Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
- SRM Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- B The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C -Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.

Report Format: Data Usability Report



Project Name: MONTGOMERY COUNTY RRF

Project Number: 200454.0000.0000

Lab Number: L1403022 Report Date: 02/21/14

Data Qualifiers

- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- **P** The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- **S** Analytical results are from modified screening analysis.
- J -Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- **ND** Not detected at the reporting limit (RL) for the sample.



Project Name:MONTGOMERY COUNTY RRFProject Number:200454.0000.0000

 Lab Number:
 L1403022

 Report Date:
 02/21/14

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 106 Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air. EPA/625/R-96/010a, June 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

Last revised December 11, 2013

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl. **EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; EPA 200.7: Ba,Be,Ca,Cd,Cr,Cu,Na; EPA 245.1: Mercury; EPA 300.0: Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B EPA 332: Perchlorate. Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.

Non-Potable Water

EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn; EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn; EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D. EPA 624: Volatile Halocarbons & Aromatics, EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

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Windsor, CT		/	ALPHA Qu	iote #:					Add'I Delive	erables		ļ	SI	tate/F	ed	 	Proj	gram	Criteria
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Fax:			Standard		\mathbf{X}	Due Date:			t to: (if differen		Managé	ir)	ļ	• <u> </u>		 			
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ANALYTICAL REPORT

Lab Number:	L1403198
Client:	TRC Environmental Consultants
	Wannalancit Mills
	650 Suffolk Street
	Lowell, MA 01854
ATTN:	Melita Lihzis
Phone:	(978) 656-3600
Project Name:	MONTGOMERY COUNTY RRF
Project Number:	200454.0000.0000
Report Date:	02/21/14

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), PA (68-02089), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), DOD (L2217.01), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806 508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name:	MONTGOMERY COUNTY RRF
Project Number:	200454.0000.0000

 Lab Number:
 L1403198

 Report Date:
 02/21/14

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1403198-01	B'VILLE-METALS-2-PRI	MARYLAND	02/07/14 16:46
L1403198-02	B'VILLE-METALS-2-COL	MARYLAND	02/07/14 16:46
L1403198-03	LUCK-METALS-2-PRI	MARYLAND	02/07/14 15:43
L1403198-04	FBB-METALS-2	MARYLAND	02/07/14 16:46



Project Name:MONTGOMERY COUNTY RRFProject Number:200454.0000.0000

 Lab Number:
 L1403198

 Report Date:
 02/21/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.



Project Name: MONTGOMERY COUNTY RRF Project Number: 200454.0000.0000
 Lab Number:
 L1403198

 Report Date:
 02/21/14

Case Narrative (continued)

Particulate in Air

WG671443-1 Duplicate: Per the method, one sample in ten is to be weighed in duplicate. This duplicate weighing is reported on the Lab Duplicate Analysis page of the report. The duplicate weight of the sample filter L1403198-01 was within the method criteria of 2.0 mg

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Galt Por Elizabeth Porta

Title: Technical Director/Representative

Date: 02/21/14



METALS



1,6020A

1,6020A

1,6020A

1,6020A

1,7471B

1,6020A

PD

PD

PD

PD

PD

PD

02/17/14 09:10 02/19/14 11:31 EPA 3050B

02/17/14 09:10 02/18/14 13:12 EPA 7471B

02/17/14 09:10 02/19/14 11:31 EPA 3050B

Project Name:		GOMERY		Y RRF				Lab Number: L14031			
Project Number:	20045	4.0000.000	00				Report	Date:	02/21/1	4	
				SAMPL	E RES	ULTS					
Lab ID:	L1403	198-01					Date Co	ollected:	02/07/1	4 16:46	
Client ID:	B'VILL	E-METALS	S-2-PRI				Date Re	eceived:	02/11/1	4	
Sample Location:	MARY	LAND					Field Pr	rep:	Not Spe	ecified	
Matrix:	Wipe										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansf	ield Lab										
Arsenic, Total	1.20		ug/filter	0.450		2	02/17/14 09:1	0 02/19/14 11:31	EPA 3050B	1,6020A	PD



Beryllium, Total

Cadmium, Total

Chromium, Total

Lead, Total

Mercury, Total

Nickel, Total

ND

ND

ND

3.96

ND

1.31

ug/filter

ug/filter

ug/filter

ug/filter

ug/filter

ug/filter

0.270

0.180

45.0

0.540

0.045

0.900

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2

2

2

2

1

1,6020A

1,6020A

1,6020A

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1,7471B

1,6020A

PD

PD

PD

PD

PD

PD

02/17/14 09:10 02/19/14 11:32 EPA 3050B

02/17/14 09:10 02/18/14 13:30 EPA 7471B

02/17/14 09:10 02/19/14 11:32 EPA 3050B

Project Name:	MONT	GOMERY	COUNTY	′ RRF			Lab Nu	mber:	L14031	L1403198	
Project Number:	20045	4.0000.00	00				Report	Date:	02/21/1	4	
				SAMPL	E RES	ULTS					
Lab ID:	L1403	198-02					Date Co	ollected:	02/07/1	4 16:46	
Client ID:	B 'VILL	E-METAL	S-2-COL				Date Re	eceived:	02/11/1	4	
Sample Location:	MARY	LAND					Field Pr	rep:	Not Spe	ecified	
Matrix:	Wipe							·			
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfi	ield Lab										
Arsenic, Total	1.10		ug/filter	0.450		2	02/17/14 09:1	0 02/19/14 11:32	EPA 3050B	1,6020A	PD



Beryllium, Total

Cadmium, Total

Chromium, Total

Lead, Total

Mercury, Total

Nickel, Total

ND

ND

ND

3.88

ND

1.34

ug/filter

ug/filter

ug/filter

ug/filter

ug/filter

ug/filter

0.270

0.180

45.0

0.540

0.045

0.900

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2

2

2

2

1

1,6020A

1,6020A

1,6020A

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1,7471B

1,6020A

PD

PD

PD

PD

PD

PD

02/17/14 09:10 02/19/14 11:33 EPA 3050B

02/17/14 09:10 02/18/14 13:32 EPA 7471B

02/17/14 09:10 02/19/14 11:33 EPA 3050B

Project Name:	MONT	GOMERY	COUNT	Y RRF			Lab Nu	mber:	L14031	98	
Project Number:	20045	4.0000.000	00				Report	Date:	02/21/1	4	
				SAMPL	E RES	ULTS					
Lab ID:	L1403	198-03					Date Co	ollected:	02/07/1	4 15:43	
Client ID:	LUCK-	METALS-2	2-PRI				Date Re	eceived:	02/11/1	4	
Sample Location:	MARY	LAND					Field Pr	ep:	Not Spe	ecified	
Matrix:	Wipe										
						Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Mansfi	eld Lab										
Arsenic, Total	0.690		ug/filter	0.450		2	02/17/14 09:10	0 02/19/14 11:33	EPA 3050B	1,6020A	PD



Beryllium, Total

Cadmium, Total

Chromium, Total

Lead, Total

Mercury, Total

Nickel, Total

ND

ND

ND

3.63

ND

1.44

ug/filter

ug/filter

ug/filter

ug/filter

ug/filter

ug/filter

0.270

0.180

45.0

0.540

0.045

0.900

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2

2

2

2

1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analys	
Matrix:	Wipe											
Sample Location:	MARYLAND			Field Pr	ep:	Not Sp	pecified					
Client ID:	FBB-METALS-2				Date Re	eceived:	02/11/	02/11/14				
Lab ID:	L1403	L1403198-04					Date Co	ollected:	02/07/	/14 16:46		
				SAMPI	E RES	ULTS						
Project Number:	20045	200454.0000.0000					Report	Date:	02/21/	/14		
Project Name:	MONT	MONTGOMERY COUNTY RRF						mber:	L1403	L1403198		

Arsenic, Total	ND	ug/filter	0.450	 2	02/17/14 09:10 02/19/14 11:35 EPA 3050B	1,6020A	PD
Beryllium, Total	ND	ug/filter	0.270	 2	02/17/14 09:10 02/19/14 11:35 EPA 3050B	1,6020A	PD
Cadmium, Total	ND	ug/filter	0.180	 2	02/17/14 09:10 02/19/14 11:35 EPA 3050B	1,6020A	PD
Chromium, Total	ND	ug/filter	45.0	 2	02/17/14 09:10 02/19/14 11:35 EPA 3050B	1,6020A	PD
Lead, Total	ND	ug/filter	0.540	 2	02/17/14 09:10 02/19/14 11:35 EPA 3050B	1,6020A	PD
Mercury, Total	ND	ug/filter	0.045	 1	02/17/14 09:10 02/18/14 13:35 EPA 7471B	1,7471B	PD
Nickel, Total	ND	ug/filter	0.900	 2	02/17/14 09:10 02/19/14 11:35 EPA 3050B	1,6020A	PD



Project Name:MONTGOMERY COUNTY RRFProject Number:200454.0000.0000

 Lab Number:
 L1403198

 Report Date:
 02/21/14

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfiel	d Lab for sample(s):	01-04 Ba	atch: W	G67074	0-1				
Arsenic, Total	ND	ug/filter	0.450		2	02/17/14 09:10	02/19/14 11:16	5 1,6020A	PD
Beryllium, Total	ND	ug/filter	0.270		2	02/17/14 09:10	02/19/14 11:16	5 1,6020A	PD
Cadmium, Total	ND	ug/filter	0.180		2	02/17/14 09:10	02/19/14 11:16	5 1,6020A	PD
Chromium, Total	ND	ug/filter	45.0		2	02/17/14 09:10	02/19/14 11:16	5 1,6020A	PD
Lead, Total	ND	ug/filter	0.540		2	02/17/14 09:10	02/19/14 11:16	5 1,6020A	PD
Nickel, Total	ND	ug/filter	0.900		2	02/17/14 09:10	02/19/14 11:16	5 1,6020A	PD

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
Total Metals - Mansfield	Lab for sample(s):	01-04 B	atch: W	G67074 ⁻	1-1				
Mercury, Total	ND	ug/filter	0.045		1	02/17/14 09:10	02/18/14 12:55	5 1,7471B	PD

Prep Information

Digestion Method: EPA 7471B



Lab Control Sample Analysis Batch Quality Control

Project Name: MONTGOMERY COUNTY RRF

Project Number: 200454.0000.0000 Lab Number: L1403198 Report Date: 02/21/14

arameter	LCS %Recovery	/ Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
otal Metals - Mansfield Lab Associated sample	(s): 01-04 B	Batch: WG670	0740-2 SRM Lo	t Number: A	A2METSPIKE			
Arsenic, Total	92		-		75-125	-		20
Beryllium, Total	86		-		75-125	-		20
Cadmium, Total	92		-		75-125	-		20
Chromium, Total	88		-		75-125	-		20
Lead, Total	93		-		75-125	-		20
Nickel, Total	90		-		75-125	-		20
otal Metals - Mansfield Lab Associated sample	(s): 01-04 B	Batch: WG670)741-2 SRM Lo	t Number: H	HPHGAA			
Mercury, Total	105		-		80-120	-		20



Matrix Spike Analysis Batch Quality Control

Project Name:	MONTGOMERY COUNTY RRF
---------------	-----------------------

Project Number: 200454.0000.0000

 Lab Number:
 L1403198

 Report Date:
 02/21/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Recovery Qual Limits	RPD Qual	RPD Limits
Total Metals - Mansfield Lab	Associated sar	nple(s): 01-04	QC Bat	ch ID: WG670	740-4	QC Samp	le: L1403022-01	Client ID: MS	Sample	
Arsenic, Total	0.981	1800	1750	97		-	-	75-125	-	20
Beryllium, Total	ND	900	830	92		-	-	75-125	-	20
Cadmium, Total	0.351	900	915	102		-	-	75-125	-	20
Chromium, Total	ND	1800	1730	96		-	-	75-125	-	20
Lead, Total	2.79	1800	1880	104		-	-	75-125	-	20
Nickel, Total	1.38	1800	1770	98		-	-	75-125	-	20
Total Metals - Mansfield Lab	Associated sar	nple(s): 01-04	QC Bat	ch ID: WG670	741-4	QC Samp	le: L1403198-01	Client ID: B'VII	LE-METAL	S-2-PRI
Mercury, Total	ND	1.125	1.16	103		-	-	80-120	-	20



Lab Duplicate Analysis Batch Quality Control

Project Name: MONTGOMERY COUNTY RRF Project Number: 200454.0000.0000

Lab Number: L1403198 02/21/14 Report Date:

					RPD Limits
-04 QC Batch ID: WG	670740-3 QC Sample:	L1403022-01	Client ID:	DUP Sample	
0.981	1.23	ug/filter	23	Q	20
ND	ND	ug/filter	NC		20
0.351	0.726	ug/filter	70	Q	20
ND	ND	ug/filter	NC		20
2.79	3.18	ug/filter	13		20
1.38	1.47	ug/filter	6		20
-04 QC Batch ID: WG	670741-3 QC Sample:	L1403198-01	Client ID:	B'VILLE-MET	ALS-2-PRI
ND	ND	ug/filter	NC		20
	0.981 ND 0.351 ND 2.79 1.38 -04 QC Batch ID: WG	0.981 1.23 ND ND 0.351 0.726 ND ND 2.79 3.18 1.38 1.47 OUBACTION: OUC Sample:	0.981 1.23 ug/filter ND ND ug/filter 0.351 0.726 ug/filter ND ND ug/filter 1.23 ug/filter ug/filter 1.38 1.47 ug/filter OUBLIC QC Batch ID: WG670741-3 QC Sample: L1403198-01	0.981 1.23 ug/filter 23 ND ND ug/filter NC 0.351 0.726 ug/filter 70 ND ND ug/filter NC 2.79 3.18 ug/filter 13 1.38 1.47 ug/filter 6 OURD QC Batch ID: WG670741-3 QC Sample: L1403198-01 Client ID: VIII	0.9811.23ug/filter23QNDNDug/filterNC0.3510.726ug/filter70QNDNDug/filterNC2.793.18ug/filter131.381.47ug/filter6OUR Batch ID: WG670741-3QC Sample: L1403198-01Client ID: B'VILLE-MET



AIR



		Serial_No:	02211414:44
Project Name:	MONTGOMERY COUNTY RRF	Lab Number:	L1403198
Project Number:	200454.0000.0000	Report Date:	02/21/14
	SAMPLE RESULTS		
Lab ID:	L1403198-01	Date Collected:	02/07/14 16:46
Client ID:	B'VILLE-METALS-2-PRI	Date Received:	02/11/14
Sample Location:	MARYLAND	Field Prep:	Not Specified
Matrix:	Wipe	Extraction Method:	
Analytical Method:	106,IO-3.1		
Analytical Date:	02/12/14 14:00		
Analyst:	LB		

Parameter	Result	Result Qualifier Units RL		MDL	Dilution Factor	
Suspended particulates, total (TSP)						
Filter Number	303120		-		NA	1
Initial Sample Weight	4.5484		g		NA	1
Final Weight	4.5733		g		NA	1
Sample Weight	0.0249		g		NA	1



		Serial_No:	02211414:44
Project Name:	MONTGOMERY COUNTY RRF	Lab Number:	L1403198
Project Number:	200454.0000.0000	Report Date:	02/21/14
	SAMPLE RESULTS		
Lab ID:	L1403198-02	Date Collected:	02/07/14 16:46
Client ID:	B'VILLE-METALS-2-COL	Date Received:	02/11/14
Sample Location:	MARYLAND	Field Prep:	Not Specified
Matrix:	Wipe	Extraction Method:	
Analytical Method:	106,IO-3.1		
Analytical Date:	02/12/14 14:00		
Analyst:	LB		

Parameter	Result	Result Qualifier		RL	MDL	Dilution Factor
Suspended particulates, total (TSP)						
Filter Number	303119		-		NA	1
Initial Sample Weight	4.5796		g		NA	1
Final Weight	4.6096		g		NA	1
Sample Weight	0.0300		g		NA	1



		Serial_No:02211414:44
Project Name:	MONTGOMERY COUNTY RRF	Lab Number: L1403198
Project Number:	200454.0000.0000	Report Date: 02/21/14
	SAMPLE RESULTS	
Lab ID:	L1403198-03	Date Collected: 02/07/14 15:43
Client ID:	LUCK-METALS-2-PRI	Date Received: 02/11/14
Sample Location:	MARYLAND	Field Prep: Not Specified
Matrix:	Wipe	Extraction Method:
Analytical Method:	106,IO-3.1	
Analytical Date:	02/12/14 14:00	
Analyst:	LB	

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Suspended particulates, total (TSP)						
Filter Number	303118		-		NA	1
Initial Sample Weight	4.6201		g		NA	1
Final Weight	4.6686		g		NA	1
Sample Weight	0.0485		g		NA	1



		Serial_No:02211414:44
Project Name:	MONTGOMERY COUNTY RRF	Lab Number: L1403198
Project Number:	200454.0000.0000	Report Date: 02/21/14
	SAMPLE RESULTS	
Lab ID:	L1403198-04	Date Collected: 02/07/14 16:46
Client ID:	FBB-METALS-2	Date Received: 02/11/14
Sample Location:	MARYLAND	Field Prep: Not Specified
Matrix:	Wipe	Extraction Method:
Analytical Method:	106,IO-3.1	
Analytical Date:	02/12/14 14:00	
Analyst:	LB	

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Suspended particulates, total (TSP)						
Filter Number	303122		-		NA	1
Initial Sample Weight	4.5705		g		NA	1
Final Weight	4.5722		g		NA	1
Sample Weight	0.0017		g		NA	1



Project Name: Project Number:	MONTGOMERY COUNTY 200454.0000.0000	′ RRF	Lab Duplicate Analysis Batch Quality Control				Lab Nun Report I	L1403198 02/21/14	
Parameter		Native Sampl	le Du	plicate Sample	Units	RPD	Qual	RPD Limits	
Suspended particulates, PRI	total (TSP) Associated sam	nple(s): 01-04	QC Batch ID:	WG671443-1	QC Sample:	L1403198-01	Client ID:	B'VILLE-M	ETALS-2-
Final Weight		4.5733		4.5738	g	NC			



Project Name:	MONTGOMERY COUNTY RRF
Project Number:	200454.0000.0000

Lab Number: L1403198 Report Date: 02/21/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal Cooler

N/A Present/Intact

Container Info	rmation			Temp			
Container ID	Container Type	Cooler	рΗ	deg C	Pres	Seal	Analysis(*)
L1403198-01A	Filter-PM10	N/A	N/A		Y	Present/Intact	A2-PM10-CD-6020T(180),A2- PM10-CR-6020T(180),A2- PM10-NI-6020T(180),A2-PM10- HG-7471T(28),A2-PM10-AS- 6020T(180),PARTICULATE- TSP(),A2-PM10-BE- 6020T(180),A2-PM10-PB- 6020T(180)
L1403198-02A	Filter-PM10	N/A	N/A		Y	Present/Intact	A2-PM10-CD-6020T(180),A2- PM10-CR-6020T(180),A2- PM10-NI-6020T(180),A2-PM10- HG-7471T(28),A2-PM10-AS- 6020T(180),PARTICULATE- TSP(),A2-PM10-BE- 6020T(180),A2-PM10-PB- 6020T(180)
L1403198-03A	Filter-PM10	N/A	N/A		Y	Present/Intact	A2-PM10-CD-6020T(180),A2- PM10-CR-6020T(180),A2- PM10-NI-6020T(180),A2-PM10- HG-7471T(28),A2-PM10-AS- 6020T(180),PARTICULATE- TSP(),A2-PM10-BE- 6020T(180),A2-PM10-PB- 6020T(180)
L1403198-04A	Filter-PM10	N/A	N/A		Y	Present/Intact	A2-PM10-CD-6020T(180),A2- PM10-CR-6020T(180),A2- PM10-NI-6020T(180),A2-PM10- HG-7471T(28),A2-PM10-AS- 6020T(180),PARTICULATE- TSP(),A2-PM10-BE- 6020T(180),A2-PM10-PB- 6020T(180)



Serial_No:02211414:44

Project Name: MONTGOMERY COUNTY RRF

Project Number: 200454.0000.0000

Lab Number: L1403198

Report Date: 02/21/14

GLOSSARY

Acronyms

- EDL Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
- EPA Environmental Protection Agency.
- LCS Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD Laboratory Control Sample Duplicate: Refer to LCS.
- LFB Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- MDL Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MSD Matrix Spike Sample Duplicate: Refer to MS.
- NA Not Applicable.
- NC Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NI Not Ignitable.
- RL Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
- SRM Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- B The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C -Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.

Report Format: Data Usability Report



Project Name: MONTGOMERY COUNTY RRF

Project Number: 200454.0000.0000

Lab Number: L1403198 Report Date: 02/21/14

Data Qualifiers

- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- **P** The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- **S** Analytical results are from modified screening analysis.
- J -Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- **ND** Not detected at the reporting limit (RL) for the sample.



Project Name:MONTGOMERY COUNTY RRFProject Number:200454.0000.0000

 Lab Number:
 L1403198

 Report Date:
 02/21/14

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 106 Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air. EPA/625/R-96/010a, June 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

Last revised December 11, 2013

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl. **EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; EPA 200.7: Ba,Be,Ca,Cd,Cr,Cu,Na; EPA 245.1: Mercury; EPA 300.0: Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B EPA 332: Perchlorate. Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.

Non-Potable Water

EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn; EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn; EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D. EPA 624: Volatile Halocarbons & Aromatics, EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Serial_No:02211414:44

84	AIR ANALYSIS -	SORRENT		A 1	Page			Chin Strat			G		1 17 C					IN THE A	
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		Project Inform					Report Information - Data Deliverables							Billing Information					
Westborough, MA	Mansfield, MA	Project Name	:Montgon	nery County	RRF			FAX				Same as Client Info							
TEL: 508-898-9220 FAX: 508-822-3288	TEL: 508-822-9300 508-822-3288	Project Locati	tion: Maryl	and										PO #					
Client Information		Project # 200					Criteria Checker:												
Client: TRC Environm		(Use Project r	name as l	Project #)			Other Formats:												
Address: 21 Griffin R				EMAIL				Regu	Regulatory Requirements/Report Limits										
Windsor, CT		ALPHA Quote	e #:					Add'l Deliv	erables			State/Fed Program					Criteria		
Phone:		Turn-Around	Time												ļ				
Fax:		Standard		X	Due Date:			t to: (if differen		Manage	r)				ļ				
Email: ghunt@trcsol	utions.com	Rush (only if pre	e approved)		Time:		gnunt@l	rcsolutions.	com	_									
These samples have	e been previously analy	zed by Alpha								ANA	LYSIS	6		1	1	1		NOTE: For metals, pleas	
Other Project Specif	ic Requirements/ Com	ments/Detection	on Limits			For PCBs	, selection		ED:									specify elements of interest and media type	
ł •	ast a 47mm punch size	d portion for se	econdary >	XRF analysi	s at		Congeners	5						d.				_	
Chester LabNet in T	igard, OR. -up samples unless dire	ected by Gary I	Hunt or M	elita Lihzis			Homologs			1				Mod				PM-10	
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						Filled Out Your Total Sample Volume (L) Matrix*								H					
		A	ll Colum	ns Below	Must Be	Filled Ou	t			ļ	ligh	PCBs (Low Vol)		Hg via NIOSH					
		o alt		Collection		1 7.4.1	Decesia	Complant	Modia ID#	13A	ls (F	3s (L	11A	via N	als	17			
	Sample ID	2014 Date S	Start Time	End Time	Flow Rate (L/min)	Total Volume (L)	Sample Matrix*	Sampler's Initials	Media ID# (1)	TO-13A	PCB	PCB	TO-11A	Ê	Metals	Ļ T		Sample Comments (i.e. Pl	
	B'ville-Metals- 2 -Pri	2:6-2.7 1	7:46	16:46			AA	SB				ļ	L		X			Volume:	
	B'ville-Metals- 2 -Col	2/6-2/7 1	7:46	16:46			AA	SB			<u> </u>				X		ļ	Volume:	
												L	ļ		<u> </u>			Makana	
	Luck-Metals- 2 -Pri	2/6-2/7 11	6:43	15:43			AA	SB					ļ		X	ļ		Volume:	
										<u> </u>		L			<u> </u>				
	FBB-Metals- 2	2/6-2/7	5 1	16:46			AA	SB		_	ļ				X	ļ	ļ	Field Blank	
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D = DNPH Cartric	lge	Stephen	Payles	D		2-9-	14/17:æ	P4	~~	<u>K</u>		Z-1	11-14	\		09	-10	resolved. BY EXECUTING	
F = Filter P = PUF Cartridg	۵						'/					ļ						THIS COC, THE CLIENT HAS READ AND AGREES	
T = Sorbent Tube																		TO BE BOUND BY ALPHA	
O = Other																TERMS & CONDITIONS.			
Form No: 101-1;	3 (rev 01-OCT-2013)																	(See reverse side.)	



ANALYTICAL REPORT

_		
	Lab Number:	L1404480
	Client:	TRC Environmental Consultants
		Wannalancit Mills
		650 Suffolk Street
		Lowell, MA 01854
	ATTN:	Melita Lihzis
	Phone:	(978) 656-3600
	Project Name:	MONTGOMERY COUNTY RRF
	Project Number:	200454.0000.0000
	Report Date:	03/13/14

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Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), PA (68-02089), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), DOD (L2217.01), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806 508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name:	MONTGOMERY COUNTY RRF
Project Number:	200454.0000.0000

 Lab Number:
 L1404480

 Report Date:
 03/13/14

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1404480-01	B'VILLE-METALS-3-PRI	MARYLAND	02/27/14 14:34
L1404480-02	B'VILLE-METALS-3-COL	MARYLAND	02/27/14 14:34
L1404480-03	LUCK-METALS-3-PRI	MARYLAND	02/27/14 11:20
L1404480-04	FBB-METALS-3	MARYLAND	02/27/14 14:34



Project Name: MONTGOMERY COUNTY RRF Project Number: 200454.0000.0000

 Lab Number:
 L1404480

 Report Date:
 03/13/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.



Project Name: MONTGOMERY COUNTY RRF Project Number: 200454.0000.0000
 Lab Number:
 L1404480

 Report Date:
 03/13/14

Case Narrative (continued)

Particulates 10 microns or larger in Air (PM 10)

WG673578-1 Duplicate: Per the method, one sample in ten is to be weighed in duplicate. This duplicate weighing is reported on the Lab Duplicate Analysis page of the report. The duplicate weight of the sample filter L1404480-01 was within the method criteria of 2.0 mg.

Total Metals

The WG674454-3 Laboratory Duplicate RPD, performed on sample L1404480-01, is above the acceptance criteria for Nickel, total (44%); however, the sample and duplicate results are less than five times the reporting limit; therefore, the RPD is accepted.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Galt Por Elizabeth Porta

Title: Technical Director/Representative

Date: 03/13/14



METALS



Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analys	
Matrix:	Wipe											
Sample Location:	MARY	'LAND					Field Pr	ep:	Not Sp	pecified		
Client ID:	B'VILL	B'VILLE-METALS-3-PRI						eceived:	03/04/	03/04/14		
Lab ID:	L1404	L1404480-01					Date Co	ollected:	02/27/	02/27/14 14:34		
				SAMPI	E RES	ULTS						
Project Number:	20045	200454.0000.0000						Report Date: 03/13/14				
Project Name:	MONT	MONTGOMERY COUNTY RRF						Lab Number:L1404480				

Arsenic, Total	0.609	ug/filter	0.450	 2	03/10/14 10:00 03/11/14 14:23 EPA 3050B	1,6020A	PD
Beryllium, Total	ND	ug/filter	0.270	 2	03/10/14 10:00 03/11/14 14:23 EPA 3050B	1,6020A	PD
Cadmium, Total	ND	ug/filter	0.180	 2	03/10/14 10:00 03/11/14 14:23 EPA 3050B	1,6020A	PD
Chromium, Total	ND	ug/filter	45.0	 2	03/10/14 10:00 03/11/14 14:23 EPA 3050B	1,6020A	PD
Lead, Total	3.22	ug/filter	0.540	 2	03/10/14 10:00 03/11/14 14:23 EPA 3050B	1,6020A	PD
Mercury, Total	ND	ug/filter	0.045	 1	03/10/14 10:00 03/12/14 14:02 EPA 7471B	1,7471B	PD
Nickel, Total	1.91	ug/filter	0.900	 2	03/10/14 10:00 03/11/14 14:23 EPA 3050B	1,6020A	PD



03/10/14 10:00 03/11/14 14:25 EPA 3050B

03/10/14 10:00 03/12/14 14:05 EPA 7471B

03/10/14 10:00 03/11/14 14:25 EPA 3050B

1,6020A

1,6020A

1,6020A

1,6020A

1,6020A

1,7471B

1,6020A

PD

PD

PD

PD

PD

PD

PD

Project Name:	MONT	GOMERY	COUNTY	′ RRF			Lab Nu	mber:	L1404	L1404480		
Project Number:	20045	200454.0000.0000						Date:	03/13/	03/13/14		
				SAMPI	LE RES	ULTS						
Lab ID:	L1404	480-02					Date Co	ollected:	02/27/	/14 14:34		
Client ID:	B'VILL	E-METALS	S-3-COL				Date Re	eceived:	03/04/	03/04/14		
Sample Location:	MARY	MARYLAND					Field Pr	rep:	Not S	Not Specified		
Matrix:	Wipe											
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst	
Total Metals - Mansf	ield Lab											



Arsenic, Total

Beryllium, Total

Cadmium, Total

Chromium, Total

Lead, Total

Mercury, Total

Nickel, Total

0.719

0.233

ND

ND

3.39

ND

1.67

ug/filter

ug/filter

ug/filter

ug/filter

ug/filter

ug/filter

ug/filter

0.450

0.270

0.180

45.0

0.540

0.045

0.900

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2

2

2

2

2

1

2

Project Name:	MONT	MONTGOMERY COUNTY RRF						mber:	L1404	L1404480		
Project Number:	20045	200454.0000.0000						Report Date: 03/13/1				
				SAMPL	E RES	ULTS						
Lab ID:	L1404	L1404480-03					Date Co	ollected:	02/27/	02/27/14 11:20		
Client ID:	LUCK-METALS-3-PRI						Date Re	eceived:	03/04/	03/04/14		
Sample Location:	MARYLAND						Field Pr	ep:	Not Sp	Not Specified		
Matrix:	Wipe											
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analys	

Arsenic, Total	0.652	ug/filter	0.450	 2	03/10/14 10:00 03/11/14 14:26 EPA 3050B 1,602	20A PD
Beryllium, Total	ND	ug/filter	0.270	 2	03/10/14 10:00 03/11/14 14:26 EPA 3050B 1,602	20A PD
Cadmium, Total	0.229	ug/filter	0.180	 2	03/10/14 10:00 03/11/14 14:26 EPA 3050B 1,602	20A PD
Chromium, Total	ND	ug/filter	45.0	 2	03/10/14 10:00 03/11/14 14:26 EPA 3050B 1,602	20A PD
Lead, Total	3.88	ug/filter	0.540	 2	03/10/14 10:00 03/11/14 14:26 EPA 3050B 1,602	20A PD
Mercury, Total	ND	ug/filter	0.045	 1	03/10/14 10:00 03/12/14 14:17 EPA 7471B 1,747	71B PD
Nickel, Total	1.68	ug/filter	0.900	 2	03/10/14 10:00 03/11/14 14:26 EPA 3050B 1,602	20A PD



1,6020A

1,6020A

1,6020A

1,6020A

1,6020A

1,7471B

1,6020A

PD

PD

PD

PD

PD

PD

PD

03/10/14 10:00 03/11/14 14:18 EPA 3050B

03/10/14 10:00 03/12/14 14:20 EPA 7471B

03/10/14 10:00 03/11/14 14:18 EPA 3050B

Project Name:	MONT	GOMERY	COUNT	Y RRF			Lab Nu	mber:	L1404	480	
Project Number:	20045	4.0000.000	0				Report	Date:	03/13/	'14	
				SAMPL	E RES	ULTS					
Lab ID:	L1404	480-04					Date Co	ollected:	02/27/	/14 14:34	
Client ID:	FBB-N	IETALS-3					Date Re	eceived:	03/04/	′14	
Sample Location:	MARY	'LAND					Field Pi	rep:	Not S	pecified	
Matrix:	Wipe										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansf	ield Lab										



Arsenic, Total

Beryllium, Total

Cadmium, Total

Chromium, Total

Lead, Total

Mercury, Total

Nickel, Total

ND

ND

ND

ND

ND

ND

ND

ug/filter

ug/filter

ug/filter

ug/filter

ug/filter

ug/filter

ug/filter

0.450

0.270

0.180

45.0

0.540

0.045

0.900

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2

2

2

2

2

1

2

Project Name:MONTGOMERY COUNTY RRFProject Number:200454.0000.0000

 Lab Number:
 L1404480

 Report Date:
 03/13/14

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfie	eld Lab for sample(s):	01-04 Ba	atch: W	G67445	4-1				
Arsenic, Total	ND	ug/filter	0.450		2	03/10/14 10:00	03/11/14 14:05	1,6020A	PD
Beryllium, Total	ND	ug/filter	0.270		2	03/10/14 10:00	03/11/14 14:05	1,6020A	PD
Cadmium, Total	ND	ug/filter	0.180		2	03/10/14 10:00	03/11/14 14:05	1,6020A	PD
Chromium, Total	ND	ug/filter	45.0		2	03/10/14 10:00	03/11/14 14:05	1,6020A	PD
Lead, Total	ND	ug/filter	0.540		2	03/10/14 10:00	03/11/14 14:05	1,6020A	PD
Nickel, Total	ND	ug/filter	0.900		2	03/10/14 10:00	03/11/14 14:05	1,6020A	PD

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
Total Metals - Mansfield	Lab for sample(s):	01-04 Ba	atch: W	G674458	3-1				
Mercury, Total	ND	ug/filter	0.045		1	03/10/14 10:00	03/12/14 13:56	6 1,7471B	PD

Prep Information

Digestion Method: EPA 7471B



Lab Control Sample Analysis Batch Quality Control

Project Name: MONTGOMERY COUNTY RRF

Project Number: 200454.0000.0000 Lab Number: L1404480 Report Date: 03/13/14

LCS %Recovery	/ Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
(s): 01-04 B	atch: WG674	1454-2 SRM Lot	Number: A	2METSPIKE			
82		-		75-125	-		20
83		-		75-125	-		20
85		-		75-125	-		20
79		-		75-125	-		20
86		-		75-125	-		20
82		-		75-125	-		20
(s): 01-04 B	atch: WG674	1458-2 SRM Lot	Number: H	IPHGAA			
108		-		80-120	-		20
	%Recovery (s): 01-04 B 82 83 85 79 86 82 (s): 01-04 B	%Recovery Qual (s): 01-04 Batch: WG674 82 83 83 9 85 9 79 9 86 9 82 9 83 9 84 9 85 9 86 9 82 9 83 9 84 9 85 9 86 9 82 9 (s): 01-04 Batch: WG674	%Recovery Qual %Recovery (s): 01-04 Batch: WG674454-2 SRM Lot 82 - - 83 - - 85 - - 79 - - 86 - - 82 - - 86 - - 82 - - 86 - - 82 - - 82 - -	%Recovery Qual %Recovery Qual (s): 01-04 Batch: WG674454-2 SRM Lot Number: A 82 - 83 - 85 - 79 - 86 - 82 - 86 - 82 - 86 SRM Lot Number: A 87 - 88 - 89 - 80 - 81 - 82 - 83 -	%Recovery Qual %Recovery Qual Limits (s): 01-04 Batch: WG674454-2 SRM Lot Number: A2METSPIKE 82 - 75-125 83 - 75-125 85 - 75-125 79 - 75-125 86 - 75-125 82 - 75-125 86 - 75-125 82 - 75-125 82 - 75-125 82 - 75-125 82 - 75-125 82 - 75-125 82 - 75-125 82 - 75-125 82 - 75-125 (s): 01-04 Batch: WG674458-2 SRM Lot Number: HPHGAA	%Recovery Qual %Recovery Qual Limits RPD (s): 01-04 Batch: WG674454-2 SRM Lot Number: A2METSPIKE -	%Recovery Qual %Recovery Qual Limits RPD Qual (s): 01-04 Batch: WG674454-2 SRM Lot Number: A2METSPIKE - </td



Matrix Spike Analysis Batch Quality Control

Project Name: MONTGOMERY COUNTY RRF

Project Number: 200454.0000.0000

 Lab Number:
 L1404480

 Report Date:
 03/13/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery Q	Recovery Qual Limits	RPD (RPD Qual Limits
Total Metals - Mansfield Lal	o Associated san	nple(s): 01-04	QC Ba	tch ID: WG674	454-4	QC Samp	le: L1404480-01	Client ID: B'VI	LLE-ME	TALS-3-PRI
Arsenic, Total	0.609	1800	1600	89		-	-	75-125	-	20
Beryllium, Total	ND	900	768	85		-	-	75-125	-	20
Cadmium, Total	ND	900	768	85		-	-	75-125	-	20
Chromium, Total	ND	1800	1560	87		-	-	75-125	-	20
Lead, Total	3.22	1800	1590	88		-	-	75-125	-	20
Nickel, Total	1.91	1800	1560	87		-	-	75-125	-	20
Total Metals - Mansfield Lal	o Associated san	nple(s): 01-04	QC Ba	tch ID: WG674	458-4	QC Samp	le: L1404480-02	Client ID: B'VI	LLE-ME	TALS-3-COL
Mercury, Total	ND	1.125	1.23	109		-	-	80-120	-	20



Lab Duplicate Analysis Batch Quality Control

Project Name: MONTGOMERY COUNTY RRF Project Number: 200454.0000.0000

Lab Number: L1404480 03/13/14 Report Date:

Parameter	Native Sample	Duplic	ate Sample	Units	RPD	Qual	RPD Limits
otal Metals - Mansfield Lab Associated sample(s): 01-04	4 QC Batch ID:	WG674454-3	QC Sample:	L1404480-01	Client ID:	B'VILLE-ME	TALS-3-PRI
Arsenic, Total	0.609		0.575	ug/filter	6		20
Beryllium, Total	ND		ND	ug/filter	NC		20
Cadmium, Total	ND		ND	ug/filter	NC		20
Chromium, Total	ND		ND	ug/filter	NC		20
Lead, Total	3.22		2.84	ug/filter	13		20
Nickel, Total	1.91		1.22	ug/filter	44	Q	20
otal Metals - Mansfield Lab Associated sample(s): 01-04	4 QC Batch ID:	WG674458-3	QC Sample:	L1404480-02	Client ID:	B'VILLE-ME	TALS-3-COL
Mercury, Total	ND		ND	ug/filter	NC		20



AIR



		Serial_No:	03131415:51
Project Name:	MONTGOMERY COUNTY RRF	Lab Number:	L1404480
Project Number:	200454.0000.0000	Report Date:	03/13/14
	SAMPLE RESULTS		
Lab ID:	L1404480-01	Date Collected:	02/27/14 14:34
Client ID:	B'VILLE-METALS-3-PRI	Date Received:	03/04/14
Sample Location:	MARYLAND	Field Prep:	Not Specified
Matrix:	Wipe	Extraction Method:	
Analytical Method:	106,IO-3.1		
Analytical Date:	03/06/14 17:00		
Analyst:	LB		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Suspended particulates, total (TSP)						
Filter Number	303124		-		NA	1
Initial Sample Weight	4.6049		g		NA	1
Final Weight	4.6348		g		NA	1
Sample Weight	0.0299		g		NA	1



		Serial_No:	03131415:51
Project Name:	MONTGOMERY COUNTY RRF	Lab Number:	L1404480
Project Number:	200454.0000.0000	Report Date:	03/13/14
	SAMPLE RESULTS		
Lab ID:	L1404480-02	Date Collected:	02/27/14 14:34
Client ID:	B'VILLE-METALS-3-COL	Date Received:	03/04/14
Sample Location:	MARYLAND	Field Prep:	Not Specified
Matrix:	Wipe	Extraction Method:	
Analytical Method:	106,IO-3.1		
Analytical Date:	03/06/14 17:00		
Analyst:	LB		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Suspended particulates, total (TSP)						
Filter Number	303125		-		NA	1
Initial Sample Weight	4.6189		g		NA	1
Final Weight	4.6533		g		NA	1
Sample Weight	0.0344		g		NA	1



		Serial_No:03131415:51	
Project Name:	MONTGOMERY COUNTY RRF	Lab Number: L1404480	
Project Number:	200454.0000.0000	Report Date: 03/13/14	
	SAMPLE RESULTS		
Lab ID:	L1404480-03	Date Collected: 02/27/14 11:20	
Client ID:	LUCK-METALS-3-PRI	Date Received: 03/04/14	
Sample Location:	MARYLAND	Field Prep: Not Specified	
Matrix:	Wipe	Extraction Method:	
Analytical Method:	106,IO-3.1		
Analytical Date:	03/06/14 17:00		
Analyst:	LB		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Suspended particulates, total (TSP)						
Filter Number	303123		-		NA	1
Initial Sample Weight	4.5547		g		NA	1
Final Weight	4.5929		g		NA	1
Sample Weight	0.0382		g		NA	1



		Serial_No:03131415:51
Project Name:	MONTGOMERY COUNTY RRF	Lab Number: L1404480
Project Number:	200454.0000.0000	Report Date: 03/13/14
	SAMPLE RESULTS	
Lab ID:	L1404480-04	Date Collected: 02/27/14 14:34
Client ID:	FBB-METALS-3	Date Received: 03/04/14
Sample Location:	MARYLAND	Field Prep: Not Specified
Matrix:	Wipe	Extraction Method:
Analytical Method:	106,IO-3.1	
Analytical Date:	03/06/14 17:00	
Analyst:	LB	

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor		
Suspended particulates, total (TSP)								
Filter Number	303127		-		NA	1		
Initial Sample Weight	4.6282		g		NA	1		
Final Weight	4.6285		g		NA	1		
Sample Weight	0.0003		g		NA	1		



Project Name: Project Number:	MONTGOMERY COUNTY 200454.0000.0000	′ RRF	La	b Duplicate A Batch Quality C		Lab Nur Report I	L1404480 03/13/14		
arameter		Native Samp	le [Duplicate Sample	e Units	RPD	Qual	RPD Limits	
uspended particulates, RI	total (TSP) Associated sam	ple(s): 01-04	QC Batch II	D: WG673578-1	QC Sample:	L1404480-01	Client ID:	B'VILLE-M	ETALS-3-
Final Weight		4.6348		4.6351	g	NC			

- -



Serial No:03131415:57	1
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Project Name:	MONTGOMERY COUNTY RRF
Project Number:	200454.0000.0000

Lab Number: L1404480 Report Date: 03/13/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal Cooler

N/A Present/Intact

Container Info	ormation		Temp				
Container ID	Container Type	Cooler	рΗ	deg C	Pres	Seal	Analysis(*)
L1404480-01A	Filter-TSP	N/A	N/A		Y	Present/Intact	A2-PM10-CD-6020T(180),A2- PM10-CR-6020T(180),A2- PM10-NI-6020T(180),A2-PM10- HG-7471T(28),A2-PM10-AS- 6020T(180),PARTICULATE- TSP(),A2-PM10-BE- 6020T(180),A2-PM10-PB- 6020T(180)
L1404480-02A	Filter-TSP	N/A	N/A		Y	Present/Intact	A2-PM10-CD-6020T(180),A2- PM10-CR-6020T(180),A2- PM10-NI-6020T(180),A2-PM10- HG-7471T(28),A2-PM10-AS- 6020T(180),PARTICULATE- TSP(),A2-PM10-BE- 6020T(180),A2-PM10-PB- 6020T(180)
L1404480-03A	Filter-TSP	N/A	N/A		Y	Present/Intact	A2-PM10-CD-6020T(180),A2- PM10-CR-6020T(180),A2- PM10-NI-6020T(180),A2-PM10- HG-7471T(28),A2-PM10-AS- 6020T(180),PARTICULATE- TSP(),A2-PM10-BE- 6020T(180),A2-PM10-PB- 6020T(180)
L1404480-04A	Filter-TSP	N/A	N/A		Y	Present/Intact	A2-PM10-CD-6020T(180),A2- PM10-CR-6020T(180),A2- PM10-NI-6020T(180),A2-PM10- HG-7471T(28),A2-PM10-AS- 6020T(180),PARTICULATE- TSP(),A2-PM10-BE- 6020T(180),A2-PM10-PB- 6020T(180)



Project Name: MONTGOMERY COUNTY RRF

Project Number: 200454.0000.0000

Lab Number: L1404480

Report Date: 03/13/14

GLOSSARY

Acronyms

- EDL Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
- EPA Environmental Protection Agency.
- LCS Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD Laboratory Control Sample Duplicate: Refer to LCS.
- LFB Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- MDL Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MSD Matrix Spike Sample Duplicate: Refer to MS.
- NA Not Applicable.
- NC Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NI Not Ignitable.
- RL Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
- SRM Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- B The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C -Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.

Report Format: Data Usability Report



03/13/14

Project Name: MONTGOMERY COUNTY RRF

Project Number: 200454.0000.0000

Lab Number: L1404480 **Report Date:**

Data Qualifiers

- М - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where NJ the identification is based on a mass spectral library search.
- Р - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R - Analytical results are from sample re-analysis.
- RE - Analytical results are from sample re-extraction.
- S - Analytical results are from modified screening analysis.
- J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND - Not detected at the reporting limit (RL) for the sample.



Project Name:MONTGOMERY COUNTY RRFProject Number:200454.0000.0000

 Lab Number:
 L1404480

 Report Date:
 03/13/14

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 106 Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air. EPA/625/R-96/010a, June 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

Last revised December 11, 2013

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl. **EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; EPA 200.7: Ba,Be,Ca,Cd,Cr,Cu,Na; EPA 245.1: Mercury; EPA 300.0: Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B EPA 332: Perchlorate. Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.

Non-Potable Water

EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn; EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn; EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D. EPA 624: Volatile Halocarbons & Aromatics, EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

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