

ANALYTICAL REPORT

Job Number: 460-113140-1

Job Description: DEC Elmont546; Site: E130150

For:

New York State D.E.C.
625 Broadway 9th Floor
Albany, NY 12233-7258

Attention: Mr. Brian Jankauskas



Approved for release.
Shalini Williams
Project Management Assistant II
5/10/2016 3:16 PM

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05/10/2016

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CASE NARRATIVE

Client: New York State D.E.C.

Project: DEC Elmont546; Site: E130150

Report Number: 460-113140-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The sample was received on 5/3/2016 3:40 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2° C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

TCLP METALS

Sample WASTE-SOIL (460-113140-1) was analyzed for TCLP metals in accordance with EPA SW-846 Methods 1311/ 6010C. The samples were leached on 05/04/2016, and prepared and analyzed on 05/06/2016.

No difficulties were encountered during the TCLP metals analysis.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: New York State D.E.C.

Job Number: 460-113140-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
460-113140-1 <i>TCLP</i> Lead	WASTE-SOIL	1140		50.0	ug/L	6010C

METHOD SUMMARY

Client: New York State D.E.C.

Job Number: 460-113140-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Metals (ICP)	TAL EDI	SW846 6010C	
TCLP Extraction	TAL EDI		SW846 1311
Preparation, Total Metals	TAL EDI		SW846 3010A

Lab References:

TAL EDI = TestAmerica Edison

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: New York State D.E.C.

Job Number: 460-113140-1

Method	Analyst	Analyst ID
SW846 6010C	Chang, Churn Der	CDC

SAMPLE SUMMARY

Client: New York State D.E.C.

Job Number: 460-113140-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-113140-1	WASTE-SOIL	Solid	05/02/2016 1020	05/03/2016 1540

SAMPLE RESULTS

Analytical Data

Client: New York State D.E.C.

Job Number: 460-113140-1

Client Sample ID: WASTE-SOIL

Lab Sample ID: 460-113140-1

Date Sampled: 05/02/2016 1020

Client Matrix: Solid

Date Received: 05/03/2016 1540

6010C Metals (ICP)-TCLP

Analysis Method: 6010C

Analysis Batch: 460-366726

Instrument ID: ICP5

Prep Method: 3010A

Prep Batch: 460-366624

Lab File ID: 366628D1.asc

Dilution: 5.0

Leach Batch: 460-366311

Initial Weight/Volume: 50 mL

Analysis Date: 05/06/2016 1906

Final Weight/Volume: 50 mL

Prep Date: 05/06/2016 0744

Leach Date: 05/04/2016 1500

Analyte	DryWt Corrected: N	Result (ug/L)	Qualifier	MDL	RL
Lead		1140		20.8	50.0

DATA REPORTING QUALIFIERS

Client: New York State D.E.C.

Job Number: 460-113140-1

Lab Section	Qualifier	Description
Metals	U	Indicates analyzed for but not detected.

QUALITY CONTROL RESULTS

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-113140-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 460-366311					
LB 460-366311/1-F ^5	TCLP SPLPE Leachate Blank	P	Solid	1311	
460-113140-1	WASTE-SOIL	P	Solid	1311	
Prep Batch: 460-366541					
LB 460-366541/1-C ^5	TCLP SPLPE Leachate Blank	P	Solid	1311	
460-113156-B-2-C DU ^5	Duplicate	P	Solid	1311	
460-113156-B-2-D MS ^5	Matrix Spike	P	Solid	1311	
Prep Batch: 460-366624					
LCS 460-366624/2-A ^2	Lab Control Sample	T	Water	3010A	
MB 460-366624/1-A	Method Blank	T	Water	3010A	
LB 460-366311/1-F ^5	TCLP SPLPE Leachate Blank	P	Solid	3010A	460-366311
LB 460-366541/1-C ^5	TCLP SPLPE Leachate Blank	P	Solid	3010A	460-366541
460-113140-1	WASTE-SOIL	P	Solid	3010A	460-366311
460-113156-B-2-C DU ^5	Duplicate	P	Solid	3010A	460-366541
460-113156-B-2-D MS ^5	Matrix Spike	P	Solid	3010A	460-366541
Analysis Batch:460-366726					
LB 460-366311/1-F ^5	TCLP SPLPE Leachate Blank	P	Solid	6010C	460-366624
LB 460-366541/1-C ^5	TCLP SPLPE Leachate Blank	P	Solid	6010C	460-366624
LCS 460-366624/2-A ^2	Lab Control Sample	T	Water	6010C	460-366624
MB 460-366624/1-A	Method Blank	T	Water	6010C	460-366624
460-113140-1	WASTE-SOIL	P	Solid	6010C	460-366624
460-113156-B-2-C DU ^5	Duplicate	P	Solid	6010C	460-366624
460-113156-B-2-D MS ^5	Matrix Spike	P	Solid	6010C	460-366624

Report Basis

P = TCLP

T = Total

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-113140-1

Method Blank - Batch: 460-366624

Method: 6010C
Preparation: 3010A

Lab Sample ID:	MB 460-366624/1-A	Analysis Batch:	460-366726	Instrument ID:	ICP5
Client Matrix:	Water	Prep Batch:	460-366624	Lab File ID:	366628D1.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	05/06/2016 1831	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	05/06/2016 0744				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Lead	10.0	U	4.2	10.0

TCLP SPLPE Leachate Blank - Batch: 460-366624

Method: 6010C
Preparation: 3010A
TCLP

Lab Sample ID:	LB 460-366311/1-F ^5	Analysis Batch:	460-366726	Instrument ID:	ICP5
Client Matrix:	Solid	Prep Batch:	460-366624	Lab File ID:	366628D1.asc
Dilution:	5.0	Leach Batch:	460-366311	Initial Weight/Volume:	50 mL
Analysis Date:	05/06/2016 1922	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	05/06/2016 0744				
Leach Date:	05/04/2016 1500				

Analyte	Result	Qual	MDL	RL
Lead	50.0	U	20.8	50.0

TCLP SPLPE Leachate Blank - Batch: 460-366624

Method: 6010C
Preparation: 3010A
TCLP

Lab Sample ID:	LB 460-366541/1-C ^5	Analysis Batch:	460-366726	Instrument ID:	ICP5
Client Matrix:	Solid	Prep Batch:	460-366624	Lab File ID:	366628D1.asc
Dilution:	5.0	Leach Batch:	460-366541	Initial Weight/Volume:	50 mL
Analysis Date:	05/06/2016 2025	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	05/06/2016 1104				
Leach Date:	05/05/2016 1700				

Analyte	Result	Qual	MDL	RL
Lead	50.0	U	20.8	50.0

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-113140-1

Lab Control Sample - Batch: 460-366624

Method: 6010C
Preparation: 3010A

Lab Sample ID:	LCS 460-366624/2-A ^2	Analysis Batch:	460-366726	Instrument ID:	ICP5
Client Matrix:	Water	Prep Batch:	460-366624	Lab File ID:	366628D1.asc
Dilution:	2.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	05/06/2016 1835	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	05/06/2016 0744				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Lead	5000	5442	109	80 - 120	

Matrix Spike - Batch: 460-366624

Method: 6010C
Preparation: 3010A
TCLP

Lab Sample ID:	460-113156-B-2-D MS ^5	Analysis Batch:	460-366726	Instrument ID:	ICP5
Client Matrix:	Solid	Prep Batch:	460-366624	Lab File ID:	366628D1.asc
Dilution:	5.0	Leach Batch:	460-366541	Initial Weight/Volume:	50 mL
Analysis Date:	05/06/2016 1804	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	05/06/2016 0744				
Leach Date:	05/05/2016 1700				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Lead	801	5000	6530	115	75 - 125	

Duplicate - Batch: 460-366624

Method: 6010C
Preparation: 3010A
TCLP

Lab Sample ID:	460-113156-B-2-C DU ^5	Analysis Batch:	460-366726	Instrument ID:	ICP5
Client Matrix:	Solid	Prep Batch:	460-366624	Lab File ID:	366628D1.asc
Dilution:	5.0	Leach Batch:	460-366541	Initial Weight/Volume:	50 mL
Analysis Date:	05/06/2016 1808	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	05/06/2016 0744				
Leach Date:	05/05/2016 1700				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Lead	801	802.0	0.1	20	

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[illegible]

2

[illegible][illegible]

Other	Other

1

Volume of Preservative used (ml):

Expiration Date:

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 460-113140-1

Login Number: 113140

List Number: 1

Creator: Lysy, Susan

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2°C IR#6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.