



Client: Mr. Gordon Binkhorst
Pure Earth
475 Riverside Drive, Suite 860
New York, NY 10115

Analytical Report

CET# 3080802

Report Date: September 11, 2023
Project: RMS, Various
Project Number: India

Connecticut Laboratory Certificate: PH 0116
Massachusetts Laboratory Certificate: M-CT903
Rhode Island Laboratory Certificate: 199



New York NELAP Accreditation: 11982
Pennsylvania Laboratory Certificate: 68-02927

SAMPLE SUMMARY

The sample(s) were received at 4.0°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
04PRA035	3080802-01	Solid	4/25/2023	08/29/2023
04PRA033	3080802-02	Solid	4/25/2023	08/29/2023
04GAZ035	3080802-03	Solid	5/02/2023	08/29/2023
04LUC041	3080802-04	Solid	4/29/2023	08/29/2023
04GAZ075	3080802-05	Solid	5/03/2023	08/29/2023
04LUC090	3080802-06	Solid	4/28/2023	08/29/2023
04PRA010	3080802-07	Solid	4/24/2023	08/29/2023
04LUC020	3080802-08	Solid	4/28/2023	08/29/2023
04LUC021	3080802-09	Solid	4/28/2023	08/29/2023
04PRA001	3080802-10	Solid	4/24/2023	08/29/2023
04GAZ008	3080802-11	Solid	5/01/2023	08/29/2023
04PRA047	3080802-12	Solid	4/25/2023	08/29/2023
04LUC074	3080802-13	Solid	4/30/2023	08/29/2023
03KOL058	3080802-14	Solid	4/26/2023	08/29/2023
03PUN060	3080802-15	Solid	4/25/2023	08/29/2023
03NAG012	3080802-16	Solid	5/05/2023	08/29/2023
03PUN069	3080802-17	Solid	4/25/2023	08/29/2023
03KOL031	3080802-18	Solid	4/26/2023	08/29/2023
03NAG050	3080802-19	Solid	5/04/2023	08/29/2023
03KOL030	3080802-20	Solid	4/26/2023	08/29/2023
03PUN004	3080802-21	Solid	4/24/2023	08/29/2023
03PUN099	3080802-22	Solid	4/25/2023	08/29/2023
03KOL005	3080802-23	Solid	4/26/2023	08/29/2023
03NAG013	3080802-24	Solid	5/05/2023	08/29/2023
03KOL023	3080802-25	Solid	4/26/2023	08/29/2023
03KOL064	3080802-26	Solid	4/26/2023	08/29/2023
03NAG022	3080802-27	Solid	5/03/2023	08/29/2023

CET # : 3080802
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Analyte: Total Lead [EPA 6020A]

Analyst: SS

Prep: EPA 3051A

Matrix: Solid

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
3080802-01	04PRA035	ND	1.0	mg/kg (As Rec)	1	B3I0602	09/06/2023	09/08/2023 18:37	
3080802-02	04PRA033	4.4	1.0	mg/kg (As Rec)	1	B3I0602	09/06/2023	09/07/2023 21:34	
3080802-03	04GAZ035	ND	1.0	mg/kg (As Rec)	1	B3I0704	09/07/2023	09/07/2023 22:36	
3080802-04	04LUC041	ND	1.0	mg/kg (As Rec)	1	B3I0704	09/07/2023	09/07/2023 22:55	
3080802-05	04GAZ075	ND	1.0	mg/kg (As Rec)	1	B3I0704	09/07/2023	09/07/2023 22:59	
3080802-06	04LUC090	ND	1.0	mg/kg (As Rec)	1	B3I0704	09/07/2023	09/07/2023 23:04	
3080802-07	04PRA010	3.4	1.0	mg/kg (As Rec)	1	B3I0704	09/07/2023	09/07/2023 23:09	
3080802-08	04LUC020	1.1	1.0	mg/kg (As Rec)	1	B3I0704	09/07/2023	09/07/2023 23:14	
3080802-09	04LUC021	3.4	1.0	mg/kg (As Rec)	1	B3I0704	09/07/2023	09/07/2023 23:18	
3080802-10	04PRA001	240	1.0	mg/kg (As Rec)	1	B3I0704	09/07/2023	09/07/2023 23:42	
3080802-11	04GAZ008	250	1.0	mg/kg (As Rec)	1	B3I0704	09/07/2023	09/07/2023 23:47	
3080802-12	04PRA047	830	1.0	mg/kg (As Rec)	1	B3I0106	08/31/2023	09/07/2023 20:41	
3080802-13	04LUC074	350	1.0	mg/kg (As Rec)	1	B3I0106	08/31/2023	09/07/2023 20:46	
3080802-14	03KOL058	ND	1.0	mg/kg (As Rec)	1	B3I0602	09/06/2023	09/07/2023 21:43	
3080802-15	03PUN060	54	1.0	mg/kg (As Rec)	1	B3I0602	09/06/2023	09/07/2023 21:48	
3080802-16	03NAG012	23	1.0	mg/kg (As Rec)	1	B3I0602	09/06/2023	09/07/2023 21:57	
3080802-17	03PUN069	ND	1.0	mg/kg (As Rec)	1	B3I0704	09/07/2023	09/07/2023 23:52	
3080802-18	03KOL031	ND	1.0	mg/kg (As Rec)	1	B3I0704	09/07/2023	09/08/2023 18:46	
3080802-19	03NAG050	ND	1.0	mg/kg (As Rec)	1	B3I0704	09/07/2023	09/08/2023 18:56	
3080802-20	03KOL030	1.9	1.0	mg/kg (As Rec)	1	B3I0704	09/07/2023	09/08/2023 00:11	
3080802-21	03PUN004	5.6	1.0	mg/kg (As Rec)	1	B3I0704	09/07/2023	09/08/2023 00:15	
3080802-22	03PUN099	440	1.0	mg/kg (As Rec)	1	B3I0106	08/31/2023	09/07/2023 20:56	
3080802-23	03KOL005	ND	1.0	mg/kg (As Rec)	1	B3I0704	09/07/2023	09/08/2023 00:20	

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Analyte: Total Lead [EPA 6020A]

Analyst: SS

Prep: EPA 3051A

Matrix: Solid

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
3080802-24	03NAG013	1.3	1.0	mg/kg (As Rec)	1	B3I0704	09/07/2023	09/08/2023 00:49	
3080802-25	03KOL023	ND	1.0	mg/kg (As Rec)	1	B3I0704	09/07/2023	09/08/2023 00:54	
3080802-26	03KOL064	110	1.0	mg/kg (As Rec)	1	B3I0106	08/31/2023	09/07/2023 21:00	
3080802-27	03NAG022	6.0	1.0	mg/kg (As Rec)	1	B3I0106	08/31/2023	09/07/2023 21:05	

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QUALITY CONTROL SECTION

Batch B3I0106 - EPA 6020A

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B3I0106-BLK1)					Prepared: 8/31/23 Analyzed: 9/7/23				
Lead	ND	1.0							
LCS (B3I0106-BS1)					Prepared: 8/31/23 Analyzed: 9/7/23				
Lead	1.03	1.0	1.012		101	80 - 120			
Duplicate (B3I0106-DUP1)					Source: 3080802-13 Prepared: 8/31/23 Analyzed: 9/7/23				
Lead	348	1.0		353			1.29	200	

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Batch B3I0602 - EPA 6020A

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B3I0602-BLK1)					Prepared: 9/6/23 Analyzed: 9/7/23				
Lead	ND	1.0							
LCS (B3I0602-BS1)					Prepared: 9/6/23 Analyzed: 9/7/23				
Lead	1.03	1.0	1.012		101	80 - 120			
Duplicate (B3I0602-DUP1)					Prepared: 9/6/23 Analyzed: 9/7/23				
Lead	3.47	1.0		4.35			22.5	200	
Duplicate (B3I0602-DUP2)					Prepared: 9/6/23 Analyzed: 9/7/23				
Lead	54.7	1.0		53.7			1.83	200	
Matrix Spike (B3I0602-MS1)					Prepared: 9/6/23 Analyzed: 9/7/23				
Lead	#	1.0	1.042	23.3	#	0 - 200			#

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Batch B3I0704 - EPA 6020A

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B3I0704-BLK1)					Prepared: 9/7/23 Analyzed: 9/7/23				
Lead	ND	1.0							
LCS (B3I0704-BS1)					Prepared: 9/7/23 Analyzed: 9/8/23				
Lead	0.903	0.50	0.943		95.7	80 - 120			
Duplicate (B3I0704-DUP1)					Prepared: 9/7/23 Analyzed: 9/7/23				
Lead	ND	1.0		ND				200	
Duplicate (B3I0704-DUP2)					Prepared: 9/7/23 Analyzed: 9/8/23				
Lead	ND	1.0		ND				200	
Duplicate (B3I0704-DUP3)					Prepared: 9/7/23 Analyzed: 9/8/23				
Lead	ND	1.0		ND				200	
Matrix Spike (B3I0704-MS1)					Prepared: 9/7/23 Analyzed: 9/7/23				
Lead	1.29	1.0	0.943	ND	136	0 - 200			
Matrix Spike Dup (B3I0704-MSD1)					Prepared: 9/7/23 Analyzed: 9/7/23				
Lead	1.19	1.0	0.952	ND	125	0 - 200	8.17	200	



80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
email: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-target organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration Batch	An analytical standard analyzed with each set of samples to verify initial calibration of the system. Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected at or above the specified reporting limit.
RL	RL is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte found in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.



Connecticut Laboratory Certification PH0116
Massachusetts Laboratory Certification M-CT903
Pennsylvania NELAP Accreditation 68-02927

New York NELAP Accreditation 11982
Rhode Island Certification 199

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CASE NARRATIVE

No collection times provided by client on chain of custody for the following samples: 3080802-01 through -27.

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

This technical report was reviewed by Timothy Fusco



David Ditta
Laboratory Director



Project Manager

This report shall not be reproduced except in full, without the written approval of the laboratory

Report Comments:

Sample Result Flags:

E- The result is estimated, above the calibration range.

H- The surrogate recovery is above the control limits.

L- The surrogate recovery is below the control limits.

B- The compound was detected in the laboratory blank.

P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.

D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.

+/- The Surrogate was diluted out.

*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.

*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.

*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.

*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.

*I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 6020A in Solid</i>	
Lead	CT,NY,PA

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2024
NY	New York Certification (NELAC)	11982	04/01/2024
PA	Pennsylvania DEP	68-02927	05/31/2024



3080802



COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client:

CET:

80 Lupes Drive Stratford, CT 06615		Tel: (203) 377-9984 Fax: (203) 377-9952 e-mail: cetservices@cetlabs.com e-mail: bottleorders@cetlabs.com		Matrix A=Air S=Soil W=Water DW=Drinking Water C=Cassette Solid Wipe Other (Specify)		Turnaround Time ** (check one)												Metals		Additional Analysis										TOTAL # OF CONT.		NOTE #	
Sample ID/Sample Depths (include Units for any sample depths provided)		Collection Date/Time																															
04 PRA035		4-25-23		Solid																													
04 PRA033		↓																															
04 GAZ035		5-2-23																															
04 LUC 041		4-29-23																															
04 GAZ075		5-3-23																															
04 LUC 090		4-28-23																															
04 PRA010		4-24-23																															
04 LUC 020		4-28-23																															
04 LUC 021		4-28-23																															
04 PRA 001		4-24-23																															
PRESERVATIVE (CI=HCl, N=HNO ₃ , S=H ₂ SO ₄ , Na=NaOH, C=Cool, O=Other)																																	
CONTAINER TYPE (P=Plastic, G=Glass, V=Vial, O=Other)																																	
Soil VOCs Only (M=MeOH S=Stir Bar W=Water E=Encore)																																	
RELINQUISHED BY:		DATE/TIME		RECEIVED BY:																													
RELINQUISHED BY:		DATE/TIME		RECEIVED BY:																													
RELINQUISHED BY:		DATE/TIME		RECEIVED BY:																													
Client / Reporting Information																																	
Company Name																																	
Address																																	
City State Zip																																	
Report To: E-mail																																	
Phone #																																	
Tax Status:																																	
Exempt																																	
Notes:																																	
*** Standard TAT is 5-7 business days. Standard TAT for PFAS samples is 10-15 business days.																																	
Project Information																																	
Project:																																	
Location:																																	
CET Quote #																																	
QA/QC																																	
Data Report																																	
Reporting Limits:																																	
Laboratory Certification Needed (check one)																																	
Temp Upon Receipt																																	
Evidence of Cooling:																																	
PAGE																																	

* Additional charges apply.

** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 1 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.

REV 01/23
Page 12 of 14



CHAIN OF CUSTODY

Date and Time in Freezer

Client:

CET:

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