



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

Analytical Report

CET# 3020112

Report Date: February 14, 2023
Project: Givewell
Project Number: RMS, Mexico-Philippines



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

CET # : 3020112

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SAMPLE SUMMARY

The sample(s) were received at -8.0°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
16 PUE 019	3020112-01	Solid	7/29/2022	02/03/2023
16 CUA 010	3020112-02	Solid	8/12/2022	02/03/2023
16 PUE 037	3020112-03	Solid	8/10/2022	02/03/2023
16 PUE 005	3020112-04	Solid	7/29/2022	02/03/2023
16 CUA 007	3020112-05	Solid	8/12/2022	02/03/2023
16 TOL 004	3020112-06	Solid	8/19/2022	02/03/2023
16 TOL 030	3020112-07	Solid	8/25/2022	02/03/2023
16 HUA 019	3020112-08	Solid	10/26/2022	02/03/2023
16 HUA 020	3020112-09	Solid	10/26/2022	02/03/2023
16 HUA 009	3020112-10	Solid	10/26/2022	02/03/2023
16 HUA 028	3020112-11	Solid	11/01/2022	02/03/2023
09 CEB 036	3020112-12	Solid	9/16/2022	02/03/2023
09 DAV 037	3020112-13	Solid	11/21/2022	02/03/2023
09 DAV 051	3020112-14	Solid	11/22/2022	02/03/2023
09 PAM 012	3020112-15	Solid	11/28/2022	02/03/2023
09 CEB 058	3020112-16	Solid	9/16/2022	02/03/2023
09 CEB 055	3020112-17	Solid	9/16/2022	02/03/2023
09 DAV 031	3020112-18	Solid	11/21/2022	02/03/2023
09 PAM 033	3020112-19	Solid	11/09/2022	02/03/2023
09 PAM 096	3020112-20	Solid	11/14/2022	02/03/2023

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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
3020112-01	16 PUE 019	7600	0.50	mg/kg (As Rec)	1	B3B0831	02/08/2023	02/10/2023 21:31	
3020112-02	16 CUA 010	400	0.50	mg/kg (As Rec)	1	B3B0831	02/08/2023	02/10/2023 21:36	
3020112-03	16 PUE 037	ND	0.50	mg/kg (As Rec)	1	B3B0715	02/07/2023	02/10/2023 19:04	
3020112-04	16 PUE 005	0.56	0.50	mg/kg (As Rec)	1	B3B0715	02/07/2023	02/10/2023 19:09	
3020112-05	16 CUA 007	ND	0.50	mg/kg (As Rec)	1	B3B0715	02/07/2023	02/10/2023 19:14	
3020112-06	16 TOL 004	ND	0.50	mg/kg (As Rec)	1	B3B0715	02/07/2023	02/10/2023 19:18	
3020112-07	16 TOL 030	ND	0.50	mg/kg (As Rec)	1	B3B0715	02/07/2023	02/10/2023 19:37	
3020112-08	16 HUA 019	ND	0.50	mg/kg (As Rec)	1	B3B0715	02/07/2023	02/10/2023 19:56	
3020112-09	16 HUA 020	ND	0.50	mg/kg (As Rec)	1	B3B0715	02/07/2023	02/10/2023 20:01	
3020112-10	16 HUA 009	ND	0.50	mg/kg (As Rec)	1	B3B0715	02/07/2023	02/10/2023 20:06	
3020112-11	16 HUA 028	0.96	0.50	mg/kg (As Rec)	1	B3B0715	02/07/2023	02/10/2023 20:10	
3020112-12	09 CEB 036	27	2.0	mg/kg (As Rec)	1	B3B0831	02/08/2023	02/14/2023 12:09	
3020112-13	09 DAV 037	28	0.50	mg/kg (As Rec)	1	B3B0831	02/08/2023	02/10/2023 21:45	
3020112-14	09 DAV 051	260	0.50	mg/kg (As Rec)	1	B3B0831	02/08/2023	02/10/2023 22:23	
3020112-15	09 PAM 012	ND	2.0	mg/kg (As Rec)	1	B3B0831	02/08/2023	02/14/2023 12:14	
3020112-16	09 CEB 058	460	0.50	mg/kg (As Rec)	1	B3B0716	02/07/2023	02/10/2023 20:25	
3020112-17	09 CEB 055	7.3	0.50	mg/kg (As Rec)	1	B3B0716	02/07/2023	02/10/2023 20:29	
3020112-18	09 DAV 031	24	0.50	mg/kg (As Rec)	1	B3B0716	02/07/2023	02/10/2023 20:34	
3020112-19	09 PAM 033	43000	20	mg/kg (As Rec)	10	B3B0716	02/07/2023	02/14/2023 12:24	
3020112-20	09 PAM 096	1000	0.50	mg/kg (As Rec)	1	B3B0716	02/07/2023	02/10/2023 21:03	

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QUALITY CONTROL SECTION

Batch B3B0715 - 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 (B3B0715-BLK1)					Prepared: 2/7/2023 Analyzed: 2/10/2023				
Lead	ND	0.50							
LCS (B3B0715-BS1)					Prepared: 2/7/2023 Analyzed: 2/10/2023				
Lead	0.940	0.50	0.978		96.0	80 - 120			
Duplicate (B3B0715-DUP1)					Prepared: 2/7/2023 Analyzed: 2/10/2023				
Lead	ND	0.50		ND				200	
Matrix Spike (B3B0715-MS1)					Prepared: 2/7/2023 Analyzed: 2/10/2023				
Lead	0.995	0.50	0.965	ND	103	0 - 200			
Matrix Spike Dup (B3B0715-MSD1)					Prepared: 2/7/2023 Analyzed: 2/10/2023				
Lead	1.07	0.50	0.996	ND	107	0 - 200	6.94	200	

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Batch B3B0716 - 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 (B3B0716-BLK1)					Prepared: 2/7/2023 Analyzed: 2/10/2023				
Lead	ND	0.50							
LCS (B3B0716-BS1)					Prepared: 2/7/2023 Analyzed: 2/10/2023				
Lead	1.04	0.50	0.978		106	80 - 120			
Duplicate (B3B0716-DUP1)					Prepared: 2/7/2023 Analyzed: 2/10/2023				
Lead	1040	0.50		1000			3.41	200	
Matrix Spike (B3B0716-MS1)					Prepared: 2/7/2023 Analyzed: 2/10/2023				
Lead	#	0.50	0.984	1000	#	0 - 200			#
Matrix Spike Dup (B3B0716-MSD1)					Prepared: 2/7/2023 Analyzed: 2/10/2023				
Lead	#	0.50	0.984	1000	#	0 - 200	#	200	#

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Batch B3B0831 - 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 (B3B0831-BLK1)					Prepared: 2/8/2023 Analyzed: 2/14/2023				
Lead	ND	2.0							
LCS (B3B0831-BS1)					Prepared: 2/8/2023 Analyzed: 2/14/2023				
Lead	1.04	0.50	0.947		109	80 - 120			
Duplicate (B3B0831-DUP1)					Prepared: 2/8/2023 Analyzed: 2/10/2023				
Lead	26.2	0.50		28.2			7.25	200	
Matrix Spike (B3B0831-MS1)					Prepared: 2/8/2023 Analyzed: 2/10/2023				
Lead	#	0.50	0.951	28.2	#	0 - 200			#
Matrix Spike Dup (B3B0831-MSD1)					Prepared: 2/8/2023 Analyzed: 2/10/2023				
Lead	#	0.50	0.936	28.2	#	0 - 200	#	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	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	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: 3020112-01 through -20.

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 Robert Blake



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
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EPA 6020A in Solid

Lead	CT,NY,PA
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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	04/01/2023
PA	Pennsylvania DEP	68-02927	05/31/2023



3020112



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)Same Day *
Next Day *
Two Day *
Three Day *
Std (5-7 Days)

8260 CT List

8260 Aromatics

8260 Halogens

CT ETPH

8270 CT List

8270 PNAS

PCBs ☐ SOX ☐ ASE

Pesticides

8 RCRA

13 Priority Poll

15 CT DEP

Total Lead

SPLP

TCLP

Dissolved

Field Filtered

Lab to Filter

Metals

Additional Analysis

TOTAL # OF CONT.

NOTE #

Sample ID/Sample Depths

(include Units for any sample depths provided)

Collection

Date/Time

16 PUE 019

7-29-22

Solid

16 CUA 010

8-12-22

16 PUE 037

8-10-22

16 PUE 005

7-29-22

16 CUA 007

8-12-22

16 TOL 004

8-19-22

16 TOL 030

8-25-22

16 HUA 019

10-26-22

16 HUA 020

↓

16 HUA 009

↓

PRESERVATIVE (CI-HCl, N-HNO₃, S-H₂SO₄, Na-NaOH, C=Cool, O-Other)

CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)

Soil VOCs Only (M=MeOH B=Sodium Bisulfate W=Water F=Empty Vial E=Encore)

RELINQUISHED BY:

DATE/TIME

RECEIVED BY:

RELINQUISHED BY:

DATE/TIME

RECEIVED BY:

RELINQUISHED BY:

DATE/TIME

RECEIVED BY:

NOTES:

lowest detection limit possible

Client / Reporting Information

Company Name

Address

City

State

Zip

Report To

E-mail

Phone #

Fax #

Project Information

Project:

Givewell RMS

PO #:

Location:

Mexico, Philippines

Project #:

RMS

CET Quote #

Collector(s):

Various

QA/QC

☒ Std☐ Site Specific (MS/MSD) *☐ RCP Pkg *☐ DQAW *

Data Report

☒ PDF☐ EDD - Specify Format

Other

RSR Reporting Limits (check one)

☐ GA☐ GB☐ SWP☐ Other

Laboratory Certification Needed (check one)

☐ CT☐ NY☐ RI☐ MA☐ PA

Temp Upon Receipt

8 °C

Evidence of Cooling:

☒ N

PAGE

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OF

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* Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 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.

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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)		8260 CT List		8260 Aromatics		8260 Halogens		CT ETPH		8270 CT List		8270 PNAS		PCBs <input type="checkbox"/> SOX <input type="checkbox"/> ASE		Pesticides		8 RCHA		13 Priority Poll		15 CT DEP		Total Lead		SPLP		TCPL		Dissolved		Field Filtered		Lab to Filter		Additional Analysis		TOTAL # OF CONT.		NOTE #	
Sample ID/Sample Depths (include Units for any sample depths provided)				Collection Date/Time		Same Day * Next Day * Two Day * Three Day *		Std (5-7 Days)																																							
HUA 16 HUA 028				11-1-22																																											
09 CEB 036				9-16-22																																											
09 DAV 037				11-21-22																																											
09 DAV 051				11-22-22																																											
09 PAM 012				11-28-22																																											
09 CEB 058				9-16-22																																											
09 CEB 055				↓																																											
09 DAV 031				11-21-22																																											
09 PAM 033				11-9-22																																											
09 PAM 096				11-14-22																																											
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 B=Sodium Bisulfate W=Water F=Empty Vial E=Encore)																																															
RELINQUISHED BY: <i>[Signature]</i> DATE/TIME: 2/3/23 0950 RECEIVED BY: <i>[Signature]</i>																																															
RELINQUISHED BY: <i>[Signature]</i> DATE/TIME: 2/3/23 1305 RECEIVED BY: <i>[Signature]</i> 2/3/23 1305																																															
RELINQUISHED BY: DATE/TIME: RECEIVED BY:																																															
Client / Reporting Information																																															
Company Name: Pure Earth																																															
Address: 475 Riverside Drive																																															
City: New York NY 10115																																															
Report To: Gordon Binkhorst gordon@pureearth.org																																															
Phone #: 860 573 6288																																															
Fax #:																																															
Project Information																																															
Project: Givewell RMS																																															
Location: Mexico, Philippines																																															
CET Quote #:																																															
Collector(s): various																																															
QA/QC <input type="checkbox"/> Std <input type="checkbox"/> Site Specific (MS/MSD) * <input type="checkbox"/> RCP Pkg * <input type="checkbox"/> DQAW *																																															
Data Report <input type="checkbox"/> PDF <input type="checkbox"/> EDD - Specify Format: Other:																																															
RSR Reporting Limits (check one) <input type="checkbox"/> GA <input type="checkbox"/> GB <input type="checkbox"/> SWP <input type="checkbox"/> Other:																																															
Laboratory Certification Needed (check one) <input type="checkbox"/> CT <input type="checkbox"/> NY <input type="checkbox"/> RI <input type="checkbox"/> MA <input type="checkbox"/> PA																																															
Temp Upon Receipt: -8°C Evidence of Cooling: <input checked="" type="checkbox"/> N																																															
PAGE 2 OF 2																																															

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