

P.O. Box 1018 • Kamuela, Hawaii 96743 • Tel: (808) 494-0365 • E-mail: LehuaEnvironmental@gmail.com

June 14, 2024

California Institute of Technology 391 S. Holliston Avenue Pasadena, CA 91106

Attn: Denise Lu

Subject: 3RD PARTY LEAD ENVIRONMENTAL AIR MONITORING CALTECH SUBMILLIMETER OBSERVATORY (CSO) DECOMMISSIONING MAUNA KEA, BIG ISLAND, HAWAII

The purpose of this letter report is to document the activities and findings from Lehua Environmental Inc.'s (LEI's) 3rd party lead environmental air monitoring activities completed during lead paint disturbance activities associated with the CSO Decommissioning project located on Mauna Kea, Big Island, Hawaii (Subject Site). The air monitoring activities occurred from April 29, 2024 through May 30, 2024 at the Subject Site.

Background

Lead-Containing Paint (LCP) and Lead-Based Paint (LBP) were identified at the Subject Site. The Unitek Contracting Group (Contractor) was contracted to furnish labor, equipment and materials to properly clean and dispose of lead paint chips from the work area throughout the lead paint disturbance activities associated with the CSO Decommissioning project at the Subject Site.

Abatement Activities

The Contractor properly cleaned the lead work area throughout the duration of the lead paint disturbance activities associated with the CSO Decommissioning project at the Subject Site. Following and during the disturbance and removal of lead painted building components from the work area, the Contractor cleaned the work area via HEPA vacuums and hand-picking methods.

Daily field activities are documented in the daily field reports included in Attachment II.





LEI conducted lead environmental air monitoring which included work area samples during the lead paint disturbance work at the Subject Site. Four (4) air samples were collected in and around the active work area during lead paint disturbance work. Air samples were collected using low volume pumps set at 2.0 liters per minute (L/min).

All samples were properly logged and recorded following strict chain of custody procedure and submitted to Hawaii Analytical located in Honolulu, Hawaii for total lead analysis in accordance with NIOSH Method 7082.

Lead Visual Clearance Activities

LEI personnel conducted visual clearances throughout the duration of the lead paint disturbance activities to ensure the lead paint and associated lead debris did not exit the work area during the CSO decommissioning work. LEI personnel also conducted a lead visual clearance at the end of each work day to confirm no visible lead paint chips and/or debris remained on the ground or other areas surrounding the CSO platform.

Findings

Lead Environmental Air Monitoring

Laboratory results indicated that all analyzed environmental air samples collected during lead disturbance activities were below the Occupational Safety and Health Administration (OSHA) action level of 30 micrograms of lead per cubic meter of air, calculated as an 8-hour time-weighted average. A copy of the laboratory results is provided in Attachment I.

Lead Visual Clearance Activities

The lead visual clearances were successfully completed by LEI personnel at the end of each day's lead paint disturbance activities. LEI personnel confirmed no visible lead paint chips and/or debris were present at the completion of the CSO structure decommissioning.



Limitations

LEI's findings and conclusions contained herein are professional opinions based solely upon visual observations, laboratory data, and information provided to LEI at the time this study. Opinions stated in this report do not apply to changes that may have occurred after the services were performed.

LEI has performed specified services for this project with the degree of care, skill and diligence ordinarily exercised by professional consultants performing the same or similar services. No other warranty, guarantee, or representation, expressed or implied, is included or intended; unless otherwise specifically agreed to in writing by both LEI and LEI's Client.

This report is intended for the sole use of LEI's Client, exclusively for the project site indicated. LEI's Client may use and release this report, including making and retaining copies, provided such use is limited to the particular site and project for which this report is provided. However, the services performed may not be appropriate for satisfying the needs of other users. Release of this report to third-parties will be at the sole risk of Client and/or said user, and LEI shall not be liable for any claims or damages resulting from or connected with such release or any third party's use or reuse of this report.

Thank you for allowing us to serve you. Please contact us at (808)494-0365 with any questions.

Respectfully,

LEHUA ENVIRONMENTAL INC.

Kamalana Kobayashi State of Hawaii Certified Lead Risk Assessor Certification #: PB-0132 Expires: 5/16/25

Attachment I: Laboratory Reports Attachment II: Daily Field Reports

Attachment I: Laboratory Results



Hawaii Analytical Laboratory ANALYTICAL REPORT

Tuesday, May 7, 2024

Phone Number:(808)494-0365Facsimile:Email:Lehuaenvironmental@gmail.com

 Lab Job No:
 202404826

 Date Submitted:
 5/6/2024

 Your Project:
 2024-224, CSO Decommissioning, 4/29/24-4/30/24

	Air - Lead			
Sample No.	NIOSH Method: 7082m LEAD by FAAS Your Sample ID / Description	S Results	Units	Date Analyzed
202433370 Comments	042924-C-L1	< 6.9	ug/m3	5/6/2024
202433371 Comments	042924-C-L2	< 6.9	ug/m3	5/6/2024
202433372 Comments	042924-C-L3	< 6.9	ug/m3	5/6/2024
202433373 Comments	042924-C-L4	< 6.9	ug/m3	5/6/2024
202433375 Comments	043024-C-L1	< 6.9	ug/m3	5/6/2024
202433376 Comments	043024-C-L2	< 6.9	ug/m3	5/6/2024
202433377 Comments	043024-C-L3	< 6.9	ug/m3	5/6/2024
202433378 Comments	043024-C-L4	< 6.9	ug/m3	5/6/2024

 Lab Job No:
 202404826

 Date Submitted:
 5/6/2024

 Your Project:
 2024-224, CSO Decommissioning, 4/29/24-4/30/24

All Quality Control data are acceptable unless otherwise noted. MRL for lead air is 5ug. MRL for lead wipe is 10ug. MRL for lead paint or soil is 40 mg/kg for a 0.25g sample.

General Comments

The sample[s] analysis subject of this analytical report were conducted in general accordance with the procedures associated with the "analytical method" referenced above. Modifications to this methodology may have been made based upon the analyst's professional judgment and / or sample matrix effects encountered. The analysis of sample relates only to the sample analyzed, and may or may not be representative of the original source of the material submitted for our analysis. All analysts participate in interlaboratory quality control testing to continuously document profiency. This report is not to be duplicated except in full without the expressed written permission of Hawaii Analytical Laboratory. This report should not be construed as an endorsement for a product or a service by the AIHA LAP, LLC or any affiliated organizations. Sample and associated sampling / collection data is reported as provided by client. TWA values have been calculated based on information supplied by the client that the laboratory has not independently verified. Results have not been corrected for blank determinations unless noted in remarks. Unless otherwise indicated the sample condition at the time of receipt was acceptable.

Results and Symbols Definitions

- > This testing result is greater than the numerical value listed.
- < This testing result is less than the numerical value listed.
- # = Analytical methods marked with an "#" are not within our AIHA LAP, LLC Scope of Accreditation.

MRL = Method Reporting Limit.

Jemp the tim

Jennifer Hsu Liao Laboratory Manager

		New Client?		Revision 3 - nerve	a April 2013			() - (Q)
HAWAII		Report To*	:	Kamalana Koba	yashi	Invoice To*	: Ka	amalana Kobayashi
LABORAT	ORY, LLC	Company	: Lehua Environmental Inc.		Company	: Lehi	Lehua Environmental Inc.	
		Address*	: PO BOX 1018		Address*	:	PO BOX 1018	
		Phone / Cell No.*		Kamuela, Hawaii	96743		Kar	nuela, Hawaii 96743
3615 Harding Avenue, Suite			:	808-494-036	5	Phone / Cell No.*	:	808-494-0365
Honolulu, HI 96816 Ph: 808-735-0422 - Fax: 80		Report results to	:	K. Kobayash	ii	Purchase Order No.	i	K. Kobayashi
https://analyzehawaii.com	0100001	Email / Fax	: Lehu	aenvironmental@	gmail.com	Email Invoice To	: Lehuaer	vironmental@gmail.com
Need Results By*:								
5 Working Days (WD)								4
3 WD		Site/Project Name:			Client I	Project No.:	Verbal results?	Sampled By & Certif. # :
2 WD		CS	SO Decommisioni	ng		2024-224		Kama Kobayashi
	✓ 24 hours Special Instructions:		<	0		PLM POSITIVE STO	OP Instructions:	Lab Report No.:
4 hours or less		ot analyze blank until further notice			+ stop / SAMPLE		202404826	
1-2 hours	I					+ stop / LAYER		~~~~
Sample ID	San	nple Description*	Date Sampled* (mm/dd/yy)	Collection Medium	Sample Area / Air Volume	Analysis Requested*	Method Reference	Lab Sample(s) No.:
042924-C-L1	· · · · ·	Lead Air Sample	4/29/2024	cassette	720 L	Lead Air		202433370
042924-C-L2		Lead Air Sample	4/29/2024	cassette	720 L	Lead Air		202433371
042924-C-L3	<u> </u>	Lead Air Sample	4/29/2024	cassette	720 L	Lead Air	5	202433372
042924-C-L4	l	Lead Air Sample	4/29/2024	cassette	720 L	Lead Air		202433373
042924-C-L5 (Blank)	l	Lead Air Sample	4/29/2024	cassette	720 L	Lead Air		202433374
043024-C-L1	L	Lead Air Sample	4/30/2024	cassette	720 L	Lead Air		202433375
043024-C-L2	Ľ	Lead Air Sample	4/30/2024	cassette	720 L	Lead Air		202433376
043024-C-L3	L	Lead Air Sample	4/30/2024	cassette	720 L	Lead Air		202433377
043024-C-L4	Ĺ	Lead Air Sample	4/30/2024	cassette	720 L	Lead Air		202433378
043024-C-L5 (blank)	L	Lead Air Sample	4/30/2024	cassette	720 L	Lead Air		202433379
							مند	
F	Relinquished By	(Print and Sign)		Date/Time		Received By (Print and		Date/Time
	Kama Ko	bayashi Vac		5/1/2024		Savannah Newma Savannah Nem	an	6-24410:16 PCVD
*Sample description can be If matrix is 'soil', please spe All samples submitted are s	Kama Ko paint chips, concre cify if it is a FOREI ubject to Hawaii Ar	, , ,	ii) in the comment so inditions.	5/1/2024	∑ via H/ <u>awb#:</u> 173	Savannah Newma Savannah New	an Vmau: 05-	Date/Tin 06-24A10:16 via FedEx via pic Page:



Hawaii Analytical Laboratory ANALYTICAL REPORT

Monday, May 13, 2024

Phone Number:(808)494-0365Facsimile:Iehuaenvironmental@gmail.com

 Lab Job No:
 202404955

 Date Submitted:
 5/8/2024

 Your Project:
 CSO Decommissioning, 5/1/24-5/3/24

	Air - Lead								
Sample No.	NIOSH Method: 7082m LEAD by FAAS Your Sample ID / Description	Results	Units	Date Analyzed					
202434533 Comments	CSO 050124 L1	< 6.1	ug/m3	5/13/2024					
202434534 Comments	CSO 050124 L2	< 6.1	ug/m3	5/13/2024					
202434535 Comments	CSO 050124 L3	< 6.1	ug/m3	5/13/2024					
202434536 Comments	CSO 050124 L4	< 6.1	ug/m3	5/13/2024					
202434538 Comments	CSO 050224 L1	< 6.3	ug/m3	5/13/2024					
202434539 Comments	CSO 050224 L2	< 6.3	ug/m3	5/13/2024					
202434540 Comments	CSO 050224 L3	< 6.3	ug/m3	5/13/2024					
202434541 Comments	CSO 050224 L4	< 6.3	ug/m3	5/13/2024					

Mr. Kama KobayashiLehua Environmental Inc.Phone Number:(808)494-0365P.O. Box 1018Facsimile:Kamuela HI 96743Email:lehuaenvironmental@gmail.com

 Lab Job No:
 202404955

 Date Submitted:
 5/8/2024

 Your Project:
 CSO Decommissioning, 5/1/24-5/3/24

_	Air - Lead								
	NIOSH Method: 7082m LEAD b	y FAAS		Date					
Sample No.	Your Sample ID / Description	Results	Units	Analyzed					
202434543 Comments	CSO 050324 L1	< 9.1	ug/m3	5/13/2024					
202434544 Comments	CSO 050324 L2	< 9.1	ug/m3	5/13/2024					
202434545 Comments	CSO 050324 L3	< 9.1	ug/m3	5/13/2024					
202434546 Comments	CSO 050324 L4	< 9.1	ug/m3	5/13/2024					

All Quality Control data are acceptable unless otherwise noted. MRL for lead air is 5ug. MRL for lead wipe is 10ug.

MRL for lead paint or soil is 40 mg/kg for a 0.25g sample.

General Comments

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Results and Symbols Definitions

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< This testing result is less than the numerical value listed.

= Analytical methods marked with an "#" are not within our AIHA LAP, LLC Scope of Accreditation.

MRL = Method Reporting Limit.

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Jennifer Hsu Liao Laboratory Manager

Hawaii Analytical Laboratory (101812) is accredited by the AIHA LAP, LLC in the EMLAP, IHLAP, and ELLAP programs for the scope of work listed on www.aihaaccreditedlabs.org, in accordance with the recognized ISO/ IEC 17025:2005. AIHA is a NLLAP recognized accrediting body. Controlled doc.: Lead Report, rev. 3 – 20181015

3615 Harding Avenue, Ste. 308, Honolulu, HI 96816 - Telephone: (808) 735-0422 - Fax: (808) 735-0047

$\left(\right)$	1.		New Client?		Revision 3 -	Issued April 2018			M-400
	HAWAII		Report To*	:	Kama Kobayas	hi	Invoice To*	: Kamalana Kobayashi	
	LABORATORY	; 11C	Company	: Lehua Environmental Inc.			Company	: Lehua	a Environmental Inc.
		~	Address*	<u>.</u>	PO BOX 1018	3	Address*	:	PO BOX 1018
				ł	Kamuela, Hawaii 9	6743	_	Kam	uela, Hawaii 96743
			Phone / Cell No.*	i	808-494-0365	i	Phone / Cell No.*	:	
Honolulu, HI			Report results to	:	K. Kobayashi		Purchase Order No.	:	
	-0422 - Fax: 808-7: zehawaii.com	35-0047	via email or fax	: nicoleg@lehua	env.com		Email Invoice To	: lehuaenv	ironmental@gmail.com
leed Resi	ults By*:]			ental@gmail.com				
	ng Days (WD)								
☐ 4 WD ✓ 3 WD ☐ 2 WD		Client	Project No.:	Site/F	Project Name:	CSO Deco	mmissioning		Sampled By & Certif. # Nicole Garaganza-Tenga
24 hours	S	Specia	al Instructions:				PLM POSITIVE STOP?	Verbal results?	Lab Report No.:
6 hours o 4 hours o	or less		Do Not Analyze Bla	ank Until Further N	lotice		+ stop / SAMPLE		202404955
Sample ID		nple De	escription*	Date Sampled* (mm/dd/yy)		Sample Area / Air Volume	Analysis Requested*	Method Reference	Lab Sample(s) No.:
	C	CSO 050	0124 L1	5/1/2024	Cassette	820 L	Lead Air		202434533
	C	SO 050	0124 L2	5/1/2024	Cassette	820 L	Lead Air		20243453
	C	SO 050	0124 L3	5/1/2024	Cassette	820 L	Lead Air		20243453
	C	SO 050	0124 L4	5/1/2024	Cassette	820 L	Lead Air		20243453
	CS	O 05012	24 BLANK	5/1/2024	Cassette	BLANK	BLANK		20243453
	C	SO 050	0224 L1	5/2/2024	Cassette	800 L	Lead Air	1	20243453
	C	SO 050	0224 L2	5/2/2024	Cassette	800 L	Lead Air		20243453
	С	SO 050)224 L3	5/2/2024	Cassette	800 L	Lead Air		20243454
	С	SO 050)224 L4	5/2/2024	Cassette	800 L	Lead Air		20243454
	CSC	05022	24 BLANK	5/2/2024	Cassette	BLANK	BLANK		20243454
	С	SO 050	0324 L1	5/3/2024	Cassette	550 L	Lead Air		20243454
	С	SO 050)324 L2	5/3/2024	Cassette	550 L	Lead Air		20243454
	С	SO 050)324 L3	5/3/2024	Cassette	550 L	Lead Air		20243454
)324 L4	5/3/2024	Cassette	550 L	Lead Air		20243454
			24 BLANK	5/3/2024	Cassette	BLANK	BLANK		20243454
	Relinquish	ned By ((Print and Sign)	-	Date/Time		Received By (Print and	Sign)	Date/Time

	New Client?		Revision 3	Issued April 2018			M-400	
HAWAII	Report To*	:	Kama Kobayas	shi	Invoice To*	o* : Kamalana Kobayashi		
LABORATORY,		Lehua Environmental Inc.			Company	: Lehua Environmental Inc.		
	Address*	PO BOX 1018			Address*	1.)	PO BOX 1018	
		Ka	muela, Hawaii 9	96743			uela, Hawaii 96743	
	Phone / Cell No.*	:	808-494-0365	5	Phone / Cell No.*	:		
3615 Harding Avenue, Suite 308 Honolulu, HI 96816	Report results to	:	K. Kobayashi		Purchase Order No.	:		
Ph: 808-735-0422 - Fax: 808-73 https://analyzehawaii.com	5-0047 via email or fax	: nicoleg@lehuaer	nv.com		Email Invoice To	: lehuaenv	/ironmental@gmail.com	
Need Results By*:		lehuaenvironmer						
5 Working Days (WD)								
4 WD	Client Project No .:	Site/Pr	oject Name:				Sampled By & Certif. # :	
✓ 3 WD □ 2 WD		CSO Decommission			nmissioning		Nicole Garaganza-Tengan	
	Special Instructions:				PLM POSITIVE STOP?		Lab Report No.:	
6 hours or less					+ stop / SAMPLE			
4 hours or less	Do Not Analyze Bla	nk Until Further No	tice		+ stop / LAYER		202404955	
Sampla	nple Description*	Date Sampled* (mm/dd/yy)	Collection Medium	Sample Area / Air Volume	Analysis Requested*	Method Reference	Lab Sample(s) No.:	
		(- Holoronoo		
If matrix is 'soil', please specify All samples submitted are subject	nt chips, concrete, specific samp if it is a FOREIGN SOIL SAMPLE ect to Hawaii Analytical Laborato plete these fields may result in a	(outside Hawaii) in th ry terms and condition	ne comment section ns.	n. via HAC <u>awb#:</u> 173	Trinidad Shutt	_	via FedEx via pick up Page: of of24A10:42 RCVD	



Hawaii Analytical Laboratory ANALYTICAL REPORT

Thursday, May 23, 2024

Phone Number:(808)494-0365Facsimile:Iehuaenvironmental@gmail.com

 Lab Job No:
 202405274

 Date Submitted:
 5/20/2024

 Your Project:
 CSO Decomissioning, 5/13/24-5/16/24

	Air - Lead								
Sample No.	Your Sample Description	NIOSH Method: 7082m LEAD by FAAS	Results	Units	Date Analyzed				
202436179 Comments	CSO 5/13/24 L1		< 7.6	ug/m3	5/23/2024				
202436180 Comments	CSO 5/13/24 L2		< 7.6	ug/m3	5/23/2024				
202436181 Comments	CSO 5/13/24 L3		< 7.6	ug/m3	5/23/2024				
202436182 Comments	CSO 5/13/24 L4		< 7.6	ug/m3	5/23/2024				
202436184 Comments	CSO 5/14/24 L1		< 8.3	ug/m3	5/23/2024				
202436185 Comments	CSO 5/14/24 L2		< 8.3	ug/m3	5/23/2024				
202436186 Comments	CSO 5/14/24 L3		< 8.3	ug/m3	5/23/2024				
202436187 Comments	CSO 5/14/24 L4		< 8.3	ug/m3	5/23/2024				

Mr. Kama KobayashiLehua Environmental Inc.Phone Number:(808)494-0365P.O. Box 1018Facsimile:Kamuela HI 96743Email:lehuaenvironmental@gmail.com

 Lab Job No:
 202405274

 Date Submitted:
 5/20/2024

 Your Project:
 CSO Decomissioning, 5/13/24-5/16/24

	Air - Lead							
Sample No.	NIOSH M Your Sample Description	ethod: 7082m LEAD by FAAS Results	Units	Date Analyzed				
202436189 Comments	CSO 5/15/24 L1	< 6.9	ug/m3	5/23/2024				
202436190 Comments	CSO 5/15/24 L2	< 6.9	ug/m3	5/23/2024				
202436191 Comments	CSO 5/15/24 L3	< 6.9	ug/m3	5/23/2024				
202436192 Comments	CSO 5/15/24 L4	< 6.9	ug/m3	5/23/2024				
202436194 Comments	CSO 5/16/24 L1	< 8.3	ug/m3	5/23/2024				
202436195 Comments	CSO 5/16/24 L2	< 8.3	ug/m3	5/23/2024				
202436196 Comments	CSO 5/16/24 L3	< 8.3	ug/m3	5/23/2024				
202436197 Comments	CSO 5/16/24 L4	< 8.3	ug/m3	5/23/2024				

lehuaenvironmental@gmail.com

Lab Job No: 202405274 Date Submitted: 5/20/2024 Your Project: CSO Decomissioning, 5/13/24-5/16/24

All Quality Control data are acceptable unless otherwise noted. MRL for lead air is 5ug. MRL for lead wipe is 10ug. MRL for lead paint or soil is 40 mg/kg for a 0.25g sample.

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Eva Skogsberg Laboratory Supervisor

ſ		200		New Client?		D. L. Mark	nalet – Malak			M-400
		HAWAII		Report To*	:	Kama Kobaya	shi	Invoice To*	: Kar	nalana Kobayashi
		LABORATORY	; LLC	Company	: Lei	hua Environmen	ital Inc.	Company		a Environmental Inc.
			~	Address*	:	PO BOX 101	8	Address*	:	PO BOX 1018
					Ka	amuela, Hawaii s	96743		Kam	uela, Hawaii 96743
			and the second s	Phone / Cell No.*	i	808-494-036	5	Phone / Cell No.*	:	
	Honolulu, HI			Report results to	l	K. Kobayash	i	Purchase Order No.	. :	
		-0422 - Fax: 808-73 zehawaii.com	35-0047	via email or fax	calvin@lehuaen	u com		Email Invoice To	lobucopy	ironmental@gmail.com
1	Need Res	ults By*:	1		lehuaenvironmer					ironmental@gmail.com
	5 Workin	ng Days (WD)								
			Client	Project No.:	Site/Pr	oject Name:				Sampled By & Certif. # :
	✓ 3 WD □ 2 WD		2				CSO Decomission	ing 5/13/24 - 5/16/24		Calvin Arca
	24 hours		Specia	I Instructions:				PLM POSITIVE STOP?	Verbal results?	Lab Report No.:
	6 hours							+ stop / SAMPLE		202405274
	1-2 hour	s		Do Not Analyze Bla	ink Until Further No	otice		+ stop / LAYER		202400214
S	Sample ID	Sai	mple De	escription*	Date Sampled* (mm/dd/yy)	Collection Medium	Sample Area / Air Volume	Analysis Requested*	Method Reference	Lab Sample(s) No.:
1		C	CSO 5/1	3/24 L1	5/13/2024	cassette	660 L	Lead Air		202436179
2		C	CSO 5/1	3/24 L2	5/13/2024	cassette	660 L	Lead Air		202436180
3		C	CSO 5/1	3/24 L3	5/13/2024	cassette	660 L	Lead Air		202436181
4		C	CSO 5/1	3/24 L4	5/13/2024	cassette	660 L	Lead Air		202436182
5		CS	SO 5/13/	/24 Blank	5/13/2024	cassette	Blank	Blank		202436183
6		С	SO 5/1	4/24 L1	5/14/2024	cassette	600 L	Lead Air		202436184
7		С	SO 5/1	4/24 L2	5/14/2024	cassette	600 L	Lead Air		202436185
8		С	SO 5/1	4/24 L3	5/14/2024	cassette	600 L	Lead Air		202436186
9		C	SO 5/1	4/24 L4	5/14/2024	cassette	600 L	Lead Air	2	202436187
10		CS	SO 5/14/	24 Blank	5/14/2024	cassette	Blank	Blank		202436188
11		C	SO 5/1	5/24 L1	5/15/2024	cassette	720 L	Lead Air		202436189
12		C	SO 5/1	5/24 L2	5/15/2024	cassette	720 L	Lead Air		202436190
13		C	SO 5/1	5/24 L3	5/15/2024	cassette	720 L	Lead Air		202436191
14		C	SO 5/1	5/24 L4	5/15/2024	cassette	720 L	Lead Air		202436192
15		CS	O 5/15/	24 Blank	5/15/2024	cassette	Blank	Blank		202436193

		New Client?		Storika Ilina	States and states and			M-400	
HAWAII ANALYTICAL	L	Report To*	: Kama Kobayashi			Invoice To*	: Kan	nalana Kobayashi	
LABORATO		Company	:Leł	nua Environment	tal Inc.	Company	Lehua Environmental Inc.		
	~~	Address*	·	PO BOX 1018	3	Address*	:	PO BOX 1018	
			Ka	amuela, Hawaii 9		_	Kam	uela, Hawaii 96743	
3615 Harding Avenue, Suite	308	Phone / Cell No.*	:	808-494-0365		- Phone / Cell No.*	:		
Honolulu, HI 96816 Ph: 808-735-0422 - Fax: 808		Report results to	(K. Kobayashi	i	Purchase Order No.	:		
https://analyzehawaii.com		via email or fax	calvin@lehuaen	<u>/.com</u>		Email Invoice To	lehuaenvi	ironmental@gmail.com	
Need Results By*:			lehuaenvironmen	ntal@gmail.com					
5 Working Days (WD)									
✓ 3 WD	Client	Project No.:	Site/Pr	oject Name:	CSO Decomission	ing 5/13/24 - 5/16/24		Sampled By & Certif. # : Calvin Arca	
24 hours	Specia	I Instructions:					Verbal results?	Lab Report No.:	
6 hours or less 4 hours or less 1-2 hours		Do Not Analyze Bla	nk Until Further No	ofice		+ stop / SAMPLE		202405274	
	Sample De	escription*	Date Sampled* (mm/dd/yy)	Collection Medium	Sample Area / Air Volume	Analysis Requested*	Method Reference	Lab Sample(s) No.:	
	CSO 5/1	6/24 L1	5/16/2024	cassette	600 L	Lead Air		202436194	
	CSO 5/1	6/24 L2	5/16/2024	cassette	600 L	Lead Air		202436195	
	CSO 5/1	6/24 L3	5/16/2024	cassette	600 L	Lead Air		202436196	
	CSO 5/1	6/24 L4	5/16/2024	cassette	600 L	Lead Air		202436197	
	CSO 5/16/		5/16/2024	cassette	Blank	Blank		202436198	
Relinqu	ished By	(Print and Sign)		Date/Time		Received By (Print and S	Sign)	Date/Time	
	Calvin	Arca		1/28/2024 12:0	00 00	Hernidan An	05	-20-24A09:24 RCVD	
*Sample description can be If matrix is 'soil', please spec All samples submitted are su *Required fields, failure to co	cify if it is a ubject to Ha	FOREIGN SOIL SAMPLE waii Analytical Laborator	(outside Hawaii) in th ry terms and condition	e comment section	n. Xia HAi awo#: 173-		a drop box	ria FedEx 🗌 via pick up	



Hawaii Analytical Laboratory ANALYTICAL REPORT

Friday, May 31, 2024

Phone Number:(808)494-0365Facsimile:Iehuaenvironmental@gmail.com

 Lab Job No:
 202405578

 Date Submitted:
 5/28/2024

 Project Name:
 CSO Decomissioning, 5/20/24-5/24/24

	Air - Lead			
Sample No.	NIOSH Method: 7082m LEAD by FAAS Your Sample ID / Description	Results	Units	Date Analyzed
202437662 Comments	CSO 5/20/24 L1	< 6.4	ug/m3	5/29/2024
202437663 Comments	CSO 5/20/24 L2	< 6.4	ug/m3	5/29/2024
202437664 Comments	CSO 5/20/24 L3	< 6.4	ug/m3	5/29/2024
202437665 Comments	CSO 5/20/24 L4	< 6.4	ug/m3	5/29/2024
202437667 Comments	CSO 5/21/24 L1	< 5.2	ug/m3	5/29/2024
202437668 Comments	CSO 5/21/24 L2	< 5.2	ug/m3	5/29/2024
202437669 Comments	CSO 5/21/24 L3	< 5.2	ug/m3	5/29/2024
202437670 Comments	CSO 5/21/24 L4	< 5.2	ug/m3	5/29/2024
202437672 Comments	CSO 5/22/24 L1	< 6.4	ug/m3	5/29/2024

Hawaii Analytical Laboratory (101812) is accredited by the AIHA LAP, LLC in the EMLAP, IHLAP, and ELLAP programs for the scope of work listed on www.aihaaccreditedlabs.org, in accordance with the recognized ISO/ IEC 17025:2017. AIHA LAP, LLC is a NLLAP recognized accrediting body. Controlled doc.: Lead Report, rev. 3 - 20181015

3615 Harding Avenue, Ste. 308, Honolulu, HI 96816 - Telephone: (808) 735-0422 - Fax: (808) 735-0047

lehuaenvironmental@gmail.com

Lab Job No: 202405578 Date Submitted: 5/28/2024 CSO Decomissioning, 5/20/24-5/24/24 **Project Name:**

	Air - Leac			
	NIOSH Method: 7082m LE/	-		Date
Sample No.	Your Sample ID / Description	Results	Units	Analyzed
202437673	CSO 5/22/24 L2	< 6.4	ug/m3	5/29/2024
Comments				
202437674	CSO 5/22/24 L3	< 6.4	ug/m3	5/29/2024
Comments				
202437675	CSO 5/22/24 L4	< 6.4	ug/m3	5/29/2024
Comments				
202437677	CSO 5/23/24 L1	< 6	ug/m3	5/29/2024
Comments		-	9	0/20/2021
202437678	CSO 5/23/24 L2	< 6	ug/m3	5/29/2024
Comments	CSO 3/23/24 L2		ug/mo	5/29/2024
202427670	222 - 222 - 22	< 6	ua/m2	E /00 /000 A
202437679 Comments	CSO 5/23/24 L3	< 0	ug/m3	5/29/2024
202437680 Comments	CSO 5/23/24 L4	< 6	ug/m3	5/29/2024
202437682	CSO 5/24/24 L1	< 8.3	ug/m3	5/29/2024
Comments				
202437683	CSO 5/24/24 L2	< 8.3	ug/m3	5/29/2024
Comments				
202437684	CSO 5/24/24 L3	< 8.3	ug/m3	5/29/2024
Comments			C C	
202437685	CSO 5/24/24 L4	< 8.3	ug/m3	5/29/2024
Comments	000 0/24/24 L4	× 0.0	agino	512912024

Hawaii Analytical Laboratory (101812) is accredited by the AIHA LAP, LLC in the EMLAP, IHLAP, and ELLAP programs for the scope of work listed on www.aihaaccreditedlabs.org, in accordance with the recognized ISO/ IEC 17025:2017. AIHA LAP, LLC is a NLLAP recognized accrediting body. Controlled doc.: Lead Report, rev. 3 - 20181015 3615 Harding Avenue, Ste. 308, Honolulu, HI 96816 - Telephone: (808) 735-0422 - Fax: (808) 735-0047 Page 2 of 3

Phone Number: (808)494-0365 Facsimile: Email:

lehuaenvironmental@gmail.com

Lab Job No: 202405578 Date Submitted: 5/28/2024 **Project Name:** CSO Decomissioning, 5/20/24-5/24/24

All Quality Control data are acceptable unless otherwise noted. MRL for lead air is 5ug. MRL for lead wipe is 10ug. MRL for lead paint or soil is 40 mg/kg for a 0.25g sample.

General Comments

The sample[s] analysis subject of this analytical report were conducted in general accordance with the procedures associated with the "analytical method" referenced above. Modifications to this methodology may have been made based upon the analyst's professional judgment and / or sample matrix effects encountered. The analysis of sample relates only to the sample analyzed, and may or may not be representative of the original source of the material submitted for our analysis. All analysts participate in interlaboratory quality control testing to continuously document profiency. This report is not to be duplicated except in full without the expressed written permission of Hawaii Analytical Laboratory. This report should not be construed as an endorsement for a product or a service by the AIHA LAP. LLC or any affiliated organizations. Sample and associated sampling / collection data is reported as provided by client. TWA values have been calculated based on information supplied by the client that the laboratory has not independently verified. Results have not been corrected for blank determinations unless noted in remarks. Unless otherwise indicated the sample condition at the time of receipt was acceptable.

Results and Symbols Definitions

> This testing result is greater than the numerical value listed.

< This testing result is less than the numerical value listed.

= Analytical methods marked with an "#" are not within our AIHA LAP, LLC Scope of Accreditation.

MRL = Method Reporting Limit.

Anne Kuting

Anne Antin **Quality Control Manager**

Hawaii Analytical Laboratory (101812) is accredited by the AIHA LAP, LLC in the EMLAP, IHLAP, and ELLAP programs for the scope of work listed on www.aihaaccreditedlabs.org, in accordance with the recognized ISO/ IEC 17025:2017. AIHA LAP, LLC is a NLLAP recognized accrediting body. Controlled doc.: Lead Report, rev. 3 - 20181015 3615 Harding Avenue, Ste. 308, Honolulu, HI 96816 - Telephone: (808) 735-0422 - Fax: (808) 735-0047 Page 3 of 3

8		>		New Client?		Keypana S -	Issued appl 2011			M-400
		HAWAII ANALYTICAL LABORATORY, LLC Company		10 C	:Leł	Kama Kobaya nua Environmen		Invoice To* Company	: Kamalana Kobayashi : Lehua Environmental Inc.	
	Address*		:	PO BOX 101	8	Address*		PO BOX 1018		
				Ka	muela, Hawaii 9		-		uela, Hawaii 96743	
	3615 Harding Avenue, Suite 308 Honolulu, HI 96816 Phone / Cell No.* Report results to		,	808-494-036		Phone / Cell No.*				
				K. Kobayashi			- Purchase Order No.			
		-0422 - Fax: 808-7	35-0047		·	n. nobujuon			•	
	https://analyz	zehawaii.com	-	via email or fax	calvin@lehuaen	<u>.com</u>		Email Invoice To : <u>lehu</u>		ironmental@gmail.com
	Need Resu	ults By*:			lehuaenvironmer	ntal@gmail.com				
		ng Days (WD)								
	☐ 4 WD ✓ 3 WD		Client F	Project No.:	Site/Pr	oject Name:				Sampled By & Certif. # :
	2 WD						CSO Decomission	ing 5/20/24 - 5/24/24		Calvin Arca
	24 hours		Special	I Instructions:				PLM POSITIVE STOP?	Verbal results?	Lab Report No.:
	6 hours							+ stop / SAMPLE		
	1-2 hours			Do Not Analyze Bla	nk Until Further No	otice		+ stop / LAYER		202405578
			Sample Description*		Date Sampled* (mm/dd/yy)	Collection Medium	Sample Area / Air Volume	Analysis Requested*	Method Reference	Lab Sample(s) No.:
1		C	CSO 5/20	0/24 L1	5/20/2024	cassette	780 L	Lead Air		202437662
2		C	SO 5/20	0/24 L2	5/20/2024	cassette	780 L	Lead Air		202437663
3		C	SO 5/20	0/24 L3	5/20/2024	cassette	780 L	Lead Air		202437664
4		C	SO 5/20	D/24 L4	5/20/2024	cassette	780 L	Lead Air		202437665
5		CS	O 5/20/2	24 Blank	5/20/2024	cassette	Blank	Blank		202437666
6		C	SO 5/21	1/24 L1	5/21/2024	cassette	960 L	Lead Air		202437667
7			SO 5/21		5/21/2024	cassette	960 L	Lead Air		202437668
8			SO 5/21		5/21/2024	cassette	960 L	Lead Air		202437669
9			SO 5/21		5/21/2024	cassette	960 L	Lead Air		202437670
10				24 Blank	5/21/2024	cassette	Blank	Blank		202437671
11			SO 5/22		5/22/2024	cassette	780 L	Lead Air		202437672
12			SO 5/22		5/22/2024	cassette	780 L	Lead Air		202437673
13			SO 5/22		5/22/2024	cassette	780 L	Lead Air		202437674
14			SO 5/22		5/22/2024	cassette	780 L	Lead Air		202437675
15	CSO 5/22/24 Blank		O 5/22/2	24 Blank	5/22/2024	cassette	Blank	Blank		202437676

	2.		New Client?		Hory Billin	v - leşaritiy April 2011	1		(d=4.00)	
	HAWAII		Report To*		Kama Kobay	/ashi	Invoice To*	: Ka	malana Kobayashi	
	LABORATORY,	шс	Company	I	Lehua Environm	ental Inc.	Company	: Lehu	a Environmental Inc.	
	Address*				PO BOX 10	018	Address*	: PO BOX 1018		
					Kamuela, Hawa	ii 96743		Kam	uela, Hawaii 96743	
~			Phone / Cell No.*	808-494-0365			Phone / Cell No.*	b		
Ionolulu, HI			Report results to	<u> </u>	K. Kobaya	Purchase Order No.	:			
	-0422 - Fax: 808-73 zehawaii.com	5-0047	via email or fax	: <u>calvin@leht</u>	laenv.com		Email Invoice To	: <u>lehuaenv</u>	vironmental@gmail.com	
eed Res				lehuaenviro	nmental@gmail.co	m				
	ng Days (WD)									
☐ 4 WD ✓ 3 WD		Client F	Project No.:	Si	te/Project Name:			290-04 10 C	Sampled By & Certif. #	
2 WD				CSO Decomissioning 5/20/24 - 5/2					Calvin Arca	
24 hours		Specia	I Instructions:				PLM POSITIVE STOP?	Verbal results?	Lab Report No.:	
6 hours							+ stop / SAMPLE			
1-2 hour			Do Not Analyze Bla	ink Until Furth	er Notice		+ stop / LAYER		202405578	
ample ID	D Sample Descripti		scription*	Date Sampl (mm/dd/y		Sample Area / Air Volume	Analysis Requested*	Method Reference	Lab Sample(s) No.:	
	C	SO 5/2:	3/24 L1	5/23/202	4 cassette	840 L	Lead Air		202437677	
	C	SO 5/23	3/24 L2	5/23/202	4 cassette	840 L	Lead Air		202437678	
	С	SO 5/23	3/24 L3 5/2	5/23/2024	4 cassette	840 L	Lead Air		202437679	
	C	SO 5/23	3/24 L4	5/23/2024	4 cassette	840 L	Lead Air		202437620	
	CS	O 5/23/	24 Blank	5/23/2024	4 cassette	Blank	Blank		202437681	
	С	SO 5/24	1/24 L1	5/24/2024	4 cassette	600 L	Lead Air		202437682	
	С	SO 5/24	4/24 L2	5/24/2024	4 cassette	600 L	Lead Air	Lead Air	202437683	
	С	SO 5/24	4/24 L3	5/24/2024	4 cassette	600 L	Lead Air		202437684	
	С	SO 5/24	1/24 L4	5/24/2024	4 cassette	600 L	Lead Air		202437685	
	CS	O 5/24/2	24 Blank	5/24/2024	4 cassette	Blank	Blank	i i	202437686	
	Relinquish	ned By (Print and Sign)		Date/Tim	e	Received By (Print and	Sign)	Date/Time	
		Calvin /	Arca		1/28/2024 1	2:00	Savannah Newman Savannah Newm		5/28/24 1:00pm	

Page: _____ of _____



Hawaii Analytical Laboratory ANALYTICAL REPORT

Tuesday, June 11, 2024

Phone Number:(808)494-0365Facsimile:Iehuaenvironmental@gmail.com

 Lab Job No:
 202405887

 Date Submitted:
 6/6/2024

 Your Project:
 CSO Decomissioning, 5/28/24-5/30/24

		Air - Lead			
Sample No.	Your Sample Description	NIOSH Method: 7082m LEAD by FAAS	Results	Units	Date Analyzed
202439776 Comments	CSO 5/28/24 L1		< 8.3	ug/m3	6/10/2024
202439777 Comments	CSO 5/28/24 L2		< 8.3	ug/m3	6/10/2024
202439778 Comments	CSO 5/28/24 L3		< 8.3	ug/m3	6/10/2024
202439779 Comments	CSO 5/28/24 L4		< 8.3	ug/m3	6/10/2024
202439781 Comments	CSO 2/29/24 L1		< 6.9	ug/m3	6/10/2024
202439782 Comments	CSO 2/29/24 L2		< 6.9	ug/m3	6/10/2024
202439783 Comments	CSO 2/29/24 L3		< 6.9	ug/m3	6/10/2024
202439784 Comments	CSO 2/29/24 L4		< 6.9	ug/m3	6/10/2024

Mr. Kama KobayashiLehua Environmental Inc.Phone Number:(808)494-0365P.O. Box 1018Facsimile:Kamuela HI 96743Email:lehuaenvironmental@gmail.com

 Lab Job No:
 202405887

 Date Submitted:
 6/6/2024

 Your Project:
 CSO Decomissioning, 5/28/24-5/30/24

	Air	- Lead		
Sample No.	NIOSH Method: 7 Your Sample Description	7082m LEAD by FAAS Results	Units	Date Analyzed
202439786 Comments	CSO 5/30/24 L1	< 6	ug/m3	6/10/2024
202439787 Comments	CSO 5/30/24 L2	< 6	ug/m3	6/10/2024
202439788 Comments	CSO 5/30/24 L3	< 6	ug/m3	6/10/2024
202439789 Comments	CSO 5/30/24 L4	< 6	ug/m3	6/10/2024

lehuaenvironmental@gmail.com

Lab Job No: 202405887 Date Submitted: 6/6/2024 Your Project: CSO Decomissioning, 5/28/24-5/30/24

All Quality Control data are acceptable unless otherwise noted. MRL for lead air is 5ug. MRL for lead wipe is 10ug. MRL for lead paint or soil is 40 mg/kg for a 0.25g sample.

General Comments

The sample[s] analysis subject of this analytical report were conducted in general accordance with the procedures associated with the "analytical method" referenced above. Modifications to this methodology may have been made based upon the analyst's professional judgment and / or sample matrix effects encountered. The analysis of sample relates only to the sample analyzed, and may or may not be representative of the original source of the material submitted for our analysis. All analysis participate in interlaboratory quality control testing to continuously document profiency. This report is not to be duplicated except in full without the expressed written permission of Hawaii Analytical Laboratory. This report should not be construed as an endorsement for a product or a service by the AIHA LAP, LLC or any affiliated organizations. Sample and associated sampling / collection data is reported as provided by client. TWA values have been calculated based on information supplied by the client that the laboratory has not independently verified. Results have not been corrected for blank determinations unless noted in remarks. Unless otherwise indicated the sample condition at the time of receipt was acceptable.

Results and Symbols Definitions

- > This testing result is greater than the numerical value listed.
- < This testing result is less than the numerical value listed.
- # = Analytical methods marked with an "#" are not within our AIHA LAP, LLC Scope of Accreditation.

MRL = Method Reporting Limit.

Eva Skogsberg Laboratory Supervisor

		•	New Client?		Salitional -	Jasari ku per a tre			M-400	
	HAWAII		Report To*		Kama Kobayas	shi	Invoice To*	: Kar	nalana Kobayashi	
	LABORATORY, LLC		Company	Lehua Environmental Inc.			Company	: Lehua	hua Environmental Inc.	
		~	Address*	PO BOX 1018			Address*	:	PO BOX 1018	
				Ka	amuela, Hawaii 9	96743		Kam	uela, Hawaii 96743	
	3615 Harding Avenue, Suite 308 Honolulu, HI 96816 Ph: 808-735-0422 - Fax: 808-735-0047 https://analyzehawaii.com		Phone / Cell No.*	:	808-494-0365			:		
Honolulu,			Report results to	K. Kobayashi			Purchase Order No.	:		
			via email or fax				Email Invoice To	: lehuaenv	ironmental@gmail.com	
Need Re	esults By*:	1		lehuaenvironmei						
5 Wo	rking Days (WD)									
4 WD		Client F	Project No.:	Site/Pr	oject Name:				Sampled By & Certif. # :	
✓ 3 WD □ 2 WD					ngan 🕊 ng kang ngang si sang kang ng k	CSO Decomissioni	ng 5/28/24 - 5/30/24	Calvin Arca		
			I Instructions:				PLM POSITIVE STOP?	Verbal results?	Lab Report No.:	
							+ stop / SAMPLE		202405887	
1-2 h			Do Not Analyze Bla	nk Until Further No	k Until Further Notice				202403001	
Sample I	ID Sample De		scription*	Date Sampled* (mm/dd/yy)	Collection Medium	Sample Area / Air Volume	Analysis Requested*	Method Reference	Lab Sample(s) No.:	
1	C	CSO 5/28/24 L1		5/28/2024	cassette	600 L	Lead Air		202439776	
2	-0	SO 5/28	8/24 L2	5/28/2024	cassette	600 L	Lead Air		202439777	
3	C	CSO 5/28/24 L3 CSO 5/28/24 L4		5/28/2024	cassette	600 L	Lead Air		202439778	
4	C			5/28/2024	cassette	600 L	Lead Air		202439779	
5	CS	O 5/28/	24 Blank	5/28/2024	cassette	Blank	Blank		202439780	
6	C	SO 5/29	9/24 L1	5/29/2024	cassette	720 L	Lead Air		202439781	
7	C	SO 5/29	9/24 L2	5/29/2024	cassette	720 L	Lead Air		202439782	
8	C	SO 5/29	9/24 L3	5/29/2024	cassette	720 L	Lead Air		202439783	
9	C	SO 5/29	9/24 L4	5/29/2024	cassette	720 L	Lead Air		202439784	
10	CS	O 5/29/2	24 Blank	5/29/2024	cassette	Blank	Blank		202439785	
11	С	SO 5/30	D/24 L1	5/30/2024	cassette	840 L	Lead Air		202439786	
12	C	SO 5/30	D/24 L2	5/30/2024	cassette	840 L	Lead Air		202439787	

eport To* ompany dress* one / Cell No.* port results to <i>via email or fax</i>		Kama Kobayas ua Environment PO BOX 1018 muela, Hawaii 9 808-494-0365 K. Kobayashi	al Inc. 3 6743	Invoice To* Company Address* Phone / Cell No.*	: Lehua : F	nalana Kobayashi Environmental Inc. PO BOX 1018 uela, Hawaii 96743	
dress* one / Cell No.* port results to	Ka	PO BOX 1018 muela, Hawaii 9 808-494-0365	3 6743 5	Address*	F	PO BOX 1018	
one / Cell No.* port results to		muela, Hawaii 9 808-494-0365	6743				
port results to		808-494-0365	j	Phone / Cell No.*	Kamu	iela, Hawaii 96743	
port results to	calvin@lehuaenv			Phone / Cell No.*			
	: calvin@lehuaenv	K. Kobayashi					
via email or fax	: <u>calvin@lehuaenv</u>			Purchase Order No.			
		.com		Email Invoice To	<u>lehuaenvi</u>	lehuaenvironmental@gmail.com	
	lehuaenvironmen	tal@gmail.com					
ect No.:	Site/Pro		CSO Decomissioni	ng 5/28/24 - 5/30/24		Sampled By & Certif. # : Calvin Arca	
tructions:				PLM POSITIVE STOP?	/erbal results?	Lab Report No.:	
Not Analyze Bla	nk Until Further No	Notice		+ stop / SAMPLE + stop / LAYER		202405887	
otion*	Date Sampled* (mm/dd/yy)	Collection Medium	Sample Area / Air Volume	Analysis Requested*	Method Reference	Lab Sample(s) No.:	
L3	5/30/2024	cassette	840 L	Lead Air		202439788	
L4	5/30/2024	cassette	840 L	Lead Air		202439789	
Blank	5/30/2024	cassette	Blank	Blank		202439790	
t and Sign)		Date/Time		Received By (Print and Sign)		Date/Time	
l		1/28/2024 12:0	0	Haley Leavitt	06-0	06-24P02:21 RCVD	
	tructions: Not Analyze Bla otion* L3 L4 Blank t and Sign)	tructions: Not Analyze Blank Until Further Not Date Sampled* (mm/dd/yy) L3 5/30/2024 L4 5/30/2024 Blank 5/30/2024 t and Sign)	tructions: Not Analyze Blank Until Further Notice Date Sampled* Collection (mm/dd/yy) Medium L3 5/30/2024 cassette L4 5/30/2024 cassette Blank 5/30/2024 cassette t and Sign) Date/Time 1/28/2024 12:0	CSO Decomissioni tructions: Not Analyze Blank Until Further Notice Date Sampled* (mm/dd/yy) Collection Medium Sample Area / Air Volume L3 5/30/2024 cassette 840 L L4 5/30/2024 cassette 840 L Blank 5/30/2024 cassette Blank t and Sign) Date/Time 1/28/2024 12:00	CSO Decomissioning 5/28/24 - 5/30/24 tructions: PLM POSITIVE STOP? Not Analyze Blank Until Further Notice + stop / SAMPLE Date Sampled* Collection Sample Area notion* Date Sampled* Collection Analysis Requested* L3 5/30/2024 cassette 840 L Lead Air L4 5/30/2024 cassette 840 L Lead Air Blank 5/30/2024 cassette Blank Blank t and Sign) Date/Time Received By (Print and Sign) 1/28/2024 12:00 Haley Leavitt	CSO Decomissioning 5/28/24 - 5/30/24 PLM POSITIVE STOP? Verbal results?	

All samples submitted are subject to Hawaii Analytical Laboratory terms and conditions.

*Required fields, failure to complete these fields may result in a delay in your samples being processed.

Page: _____ of _____

Attachment II: Daily Field Reports

DAILY ACTIVITY LOG

Page: <u>1</u> of <u>1</u>

Project: Caltech Submillimeter Observatory Decommissioning

Date: Scheduled Activity

	Scheduled Activity									
Building(s):	Caltech Submil	imeter Observatory	Floor(s):	N/A						
Room(s):	N/A									
Material to be	disturbed:	LBP/LCP debris								

Time	Description					
10:00 am	Arrive onsite, calibrate and setup pumps around perimeter of work area. the demolition of the observatory utilizing an excavator with sheer attach					
11:30 am	NWD starts demolition of the exterior metal surfaces of the observatory. paint chip cleanup during and after the lead paint disturbance activities.	Unitek on standby to conduct				
2:00 pm	NWD continues the demolition of the observatory metal surfaces. Visible Demoed metal building materials are placed inside the middle of the obs					
3:00 pm	NWD stops the demolition for the day. Unitek crew conducts lead paint chip cleanup with a HEPA vacuum and hand picking methods.					
4:00 pm	Unitek completes the lead paint chip clean up of the work area. Lehua E inspection of the site. LEI approves the cleanup and no visible paint chip of the work area. Pumps are turned off and calibrated.					
LEI Staff: K	. Kobayashi	Date: 04/29/24				
	Nubayashi	Date, 04/29/24				

Project No.: Date: 4/29/2024 Client: Caltech Sampled By: K. Kobavashi Project Site: Caltech Submillimeter Observatory Decommissioning Initial Flow Avg. Flor Final Flow Total Time Total Vol. Sample ID Type* Start Time Stop Time (LPM) (LPM) (LPM) (min.) (liters) 042924-C-L1 OWA 10:00 16:00 2 2 2 360 720 L Sample Location: Near storage bldg. Analyte: Asbestos X Lead Other: (Select one) Initial Flow Final Flow Avg. Flor Total Time Total Vol. Sample ID Type* Start Time Stop Time (LPM) (LPM) (LPM) (liters) (min.) 042924-C-L2 **OWA** 10:00 16:00 2 2 2 360 720 L Sample Location: Entrance to job site. South side of driveway Analyte: Asbestos X Lead Other: (Select one) Initial Flow Final Flow Avg. Flor Total Time Total Vol. Sample ID Type* Start Time Stop Time (LPM) (LPM) (LPM) (min.) (liters) 042924-C-L3 **OWA** 10:00 16:00 2 2 2 360 720 L Sample Location: Southwest corner of job site. Analyte: Asbestos X Lead Other: (Select one) Initial Flow Final Flow Avg. Flor Total Time Total Vol. Sample ID Start Time Stop Time Type* (LPM) (LPM) (LPM) (min.) (liters) 042924-C-L4 **OWA** 10:00 16:00 2 2 2 360 720 L Sample Location: Northwest corner of job site. Analyte: Asbestos X Lead Other: (Select one) Initial Flow Final Flow Avg. Flor Total Time Total Vol. Sample ID Start Time Type* Stop Time (LPM) (LPM) (LPM) (min.) (liters) 042924-C-L5 FB NA NA NA NA NA NA NA Sample Location: NA Analyte: Asbestos X Lead Other: (Select one)

Lehua Environmental Consultants, LLC

Air Monitoring Log

*Sample Type: IWA- Inside Work Area, OWA- Outside Work Area, E- Environmental, B- Background, C- Clearance, P- Personal, FB-Field Blank, LB- Lot Blank, NA - Not applicable

DAILY ACTIVITY LOG

Project: Caltech Submillimeter Observatory Decommissioning

Page: <u>1</u> of <u>1</u> Date: 04/30/24

	Scheduled Activity										
Building(s):	Caltech Submil	limeter Observatory	Floor(s): N/A								
Room(s):	N/A										
Material to be	disturbed:	LBP/LCP debris									

Time	Description				
7:00 am	Arrive onsite, calibrate and setup pumps around perimeter of work area. continue demolition of the observatory utilizing the excavator with sheer				
9:30 am NWD continues demo work. Unitek on standby to conduct paint chip cleanup during and after t paint disturbance activities.					
11:00 am NWD excavator leaks hydraulic fluid after a hose bursts on the machine. All haul out trucks the day. Unitek, NWD and GBI clean up the leak and place absorbent litter and pads on growthe leak.					
1:00 pm	Continued cleanup of hydraulic leak area continues. Pumps turned off a	and calibrated.			
2:00 pm	Unitek and NWD continue cleanup of hydraulic leak on asphalt surface.				
4:00 pm	Site work completed for the day. LEI conducts visual clearance of work observed.	< area and no visible paint chips			
LEI Staff: K	Kobayashi	Date: 04/30/24			

Lehua Environmental Consultants, LLC

Air Monitoring Log

Project No.:	Date: 4/30/2024							
Client: Calt	Sa	Sampled By: K. Kobayashi						
Project Site: Calt	llimeter Ob	servatory Decommissioning						
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
043024-C-L1	OWA	7:00	13:00	2	2	2	360	720 L
Sample Location:	Near storag	ge bldg.						
Analyte (Select one)	:		Asbes	tos X	Lead	Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
043024-C-L2	OWA	7:00	13:00	2	2	2	360	720 L
Sample Location:	Entrance to	o job site. S	outh side of	driveway				
Analyte (Select one)	:		Asbes	stos X	Lead	Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
043024-C-L3	OWA	7:00	13:00	2	2	2	360	720 L
Sample Location:	Southwest	corner of jo	b site.					
Analyte (Select one)	:		Asbes	tos X	Lead	Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
043024-C-L4	OWA	7:00	13:00	2	2	2	360	720 L
Sample Location:	Northwest	corner of jo	b site.					
Analyte (Select one)	:		Asbes	stos X	Lead	Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
043024-C-L5	FB	NA	NA	NA	NA	NA	NA	NA
Sample Location:	NA							
Analyte (Select one)	:		Asbes	stos X	Lead	Other:		

*Sample Type: IWA- Inside Work Area, OWA- Outside Work Area, E- Environmental, B- Background, C- Clearance, P- Personal, FB-Field Blank, LB- Lot Blank, NA - Not applicable

DAILY ACTIVITY LOG

Project: Caltech Submillimeter Observatory Decommissioning

Page: <u>1</u> of <u>2</u> Date: <u>05/01/24</u>

Scheduled Activity						
Building(s):	Building(s): Caltech Submillimeter Observatory Floor(s): N/A					
Room(s):	N/A	J/A				
Material to be	disturbed:	LBP/ LCP debris				

Time	Description					
7:30 am	Arrived on site. North West Demo (NWD) getting machines into position to begin demo of observatory. At 7:55am I calibrated 4 pumps for lead air monitoring and set up around the perimeter of the work area. Unitek on site to assist in clean up of debris throughout the demo process.					
8:15 am	NWD began demo on observatory interior using the high reach excavator and snipper attachment. The first 2 trucks to haul out debris arrived and on standby. All debris will be contained within the exterior shell of the observatory.					
8:45 am	Demo work put on pause and NWD started sorting through debris pile and separating out the metal. Dust/ paint chips under control and staying within the exterior shell. Water truck is on standby for dust control.					
9:15 am	Sorting has finished and trucks are ready to be loaded. Unitek placed 6-mil poly plastic on the ground of the loading area to contain any fallen debris during the loading process. The first truck was loaded with metal debris. At 9:55am NWD started loading the second truck. Unitek cleaned off the plastic between trucks. Barely any dust generate during loading process.					
10:45 am	The last 2 trucks arrived. NWD began loading up regular debris. Loose debris creating dust, loading stopped for water truck to shoot water for dust control. Water not sprayed in excess to create any run off. By 11:30 pm both trucks left job site. Unitek began clean up around the loading area.					
12:30 pm	NWD began exposing the hydraulic pumps with the high reach snipper to expose the bolts and cables. The LBP metal frame being disturbed but paint chips are being contained within the shell area. Unitek cleaning up larger pieces of metal that fell onto the ground in between the cutting process.					
2:10 pm	NDW cut the cables that support the shutter door of the observatory. Work for the day finished once cables were cut. Unitek began clean up of all areas around the observatory.					
LEI Staff: 1	I Nicole Garaganza-Tengan	Date: 05/01/24				

Air Monitoring Log

Project No.:		Date:		05/01/24				
Client:			S	ampled By:	Nicole Garaganza-Tengan			
Project Site: Caltech Submillimeter Observatory								
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 050124 L1 ₽	OWA	7:55 am	2:45 pm	2	2	2	410	820 L
Sample Location: Near large storage	shed		-	-				
Analyte (select one)	:		OAsbe	stos 💽	Lead C	Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 050124 L2	OWA	7:55 am	2:45 pm	2	2	2	410	820 L
Sample Location:								
South side of drive	way entrand	ce to job site						
Analyte (select one)			OAsbestos OLead OOther:					
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 050124 L3	OWA	7:55 am	2:45 pm	2	2	2	410	820 L
Sample Location: South-west corner of job site								
Analyte: OAsbestos Lead Other:								
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 050124 L4	OWA	7:55 am	2:45 pm	2	2	2	410	820 L
C 1 - T								
Sample Location: North-west corner	of job site							

*Sample Type: IWA-Inside Work Area, OWA- Outside Work Area, E- Environmental, B- Background, C- Clearance, P- Personal, FB- Field Blank, LB- Lot Blank

DAILY ACTIVITY LOG

Project: Caltech Submillimeter Observatory Decommissioning

Page: <u>1</u> of <u>2</u> Date: <u>05/02/24</u>

Scheduled Activity Building(s): Caltech Submillimeter Observatory Floor(s): N/A Room(s): N/A Image: Caltech Submit Su

Time	Description	Description				
8:00 am	Arrived on site. I calibrated 4 pumps for lead air monitoring and set up around the work area. As discussed in the morning meeting, NWD will start with removing the 2 hydraulic pumps located on both sides of the shutter door opening. Unitek removed the plastic inside the shell covering the debris. No trucks will be coming up to the summit today.					
8:30 am	NWD began cutting away at the metal frame to further expose the hydraulic pumps. All paint chips being contained inside the shell. Once the pumps were exposed, they'll cut the final shutter cables. On the ground, Unitek and Good Fellow (GBI) prepped area with plastic of where the pumps will be placed and wrapped.					
9:45 am	Bolts of the first pump were removed and NWD began removing the pump from its upright position. Plastic laid on the platform to protect area from any hydraulic fluid leaks. NWD then tied up pump for lifting and carefully lifted pump over to the staged area. Once placed, Unitek began wrapping pump with 2 layers of plastic. Oil pads were placed underneath pump to soak up any fluid that may leak out.					
10:15 am	The process was repeated again for second hydraulic pump. Both pumps were moved and staged on the west side of the observatory on the concrete pad. Plastic laid beneath for extra precaution of any leaks. No leaks or spill occurred during the entire process. Unitek did a quick clean up around the observatory.					
12:00 pm	NWD switched attachments to the grabber on the high reach machine. For the rest of the day, they'll be pulling down all the wood floors and insulation within the framing. Water getting sprayed before start of demo for dust control.					
12:30 pm	Hydraulic hose on high reach began to leak fluid, and work stopped. Leak was contained right away. NWD working on fixing hose line. Unitek did a quick clean up around work area.					
1:00 pm	Hose was fixed, and NWD continued with demo. Water sprayed again for dust control.					
LEI Staff: 1	I Nicole Garaganza-Tengan	Date: 05/02/24				

DAILY ACTIVITY LOG

Project: Caltech Submillimeter Observatory Decommissioning

Page: 2 of 2 Date: 05/02/24

Scheduled Activity						
Building(s):	Caltech Submillimeter Observatory Floor(s): N/A					
Room(s):	N/A	N/A				
Material to be	disturbed:	LBP/ LCP debris				

Time	Description
1:45 pm	The hydraulic hose leaked again, and work stopped. The leak was minimal and contained right away. Shortly after the hose was fixed, work ended for the day. Unitek began cleaning with HEPA vacuum and picking up paint chips around the observatory.
2:40 pm	Unitek finished cleaning and I did a visual walk through. Plastic was placed over the debris and secured for the night. I collected and calibrated pumps.
3:00 pm	Left job site.
LEI Staff: 1	Nicole Garaganza-Tengan Date: 05/02/24

Air Monitoring Log

Project No.:		Date:		05/02/24				
Client:			S	ampled By:	Nicole Garaganza-Tengan			
Project Site: Caltech Submillimeter Observatory								
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 050224	L1 OWA	8:00 am	2:40 pm	2	2	2	400	800 L
Sample Location								
Analy (select of			OAsbe	stos 💽	Lead C	Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 050224	L2 OWA	8:00 am	2:40 pm	2	2	2	400	800 L
Sample Location								
South side of dr	•	ce to job site	•					
Analy (select of		OAsbestos OLead OOther:						
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 050224	L3 OWA	8:00 am	2:40 pm	2	2	2	400	800 L
Sample Location: South-west corner of job site								
Analyte: OAsbestos OLead OOther:								
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 050224	L4 OWA	8:00 am	2:40 pm	2	2	2	400	800 L
-	Sample Location: North-west corner of job site							
Analyte: (select one)		OAsbestos OLead OOther:						

*Sample Type: IWA-Inside Work Area, OWA- Outside Work Area, E- Environmental, B- Background, C- Clearance, P- Personal, FB- Field Blank, LB- Lot Blank
DAILY ACTIVITY LOG

Project: Caltech Submillimeter Observatory Decommissioning

Page: 1 of 1 Date: 05/03/24

Scheduled Activity					
Building(s):	Caltech Submil	limeter Observatory	Floor(s):	N/A	
Room(s):	N/A				
Material to be disturbed: LBP/ LCP debris					

Time	Description					
7:50 am	Arrived on site. I calibrated 4 pumps for lead air monitoring and set up around the work area. NWB waiting for trucks to arrive and will start loading demo debris. Plan is to remove all demo debris as high winds are in the forecast over the weekend/ upcoming week.					
8:30 am	Trucks still have not arrived, NWD started pulling down loose pieces of the exterior metal shell that could be picked up during the high winds. Water strayed prior to work for dust control. Unitek did a walk through of areas outside of the roped area in case any metal debris make it out there.					
9:30 am	The trucks have made it up to the observatory. Before loading begins, water got sprayed over debris to help keep dust down during the loading process. Unitek also laid plastic on the ground in the loading area.					
10:00 am	The first 2 trucks have been loaded. Unitek cleaned loading area in betw with demo to accumulate enough debris for the last 2 trucks.	veen trucks. NWD will continue				
11:45 am	The last 2 trucks were loaded and left job site. NWD brought down the hydraulic crane and placed it in front of the storage shed. Oil pads were placed under crane to contain a small fluid leak. UHM truck will come to remove the crane and take it down to HP. Unitek started cleaning around the observatory with HEPA vacuum and picking up paint chips.					
12:25 pm	Unitek finished cleaning and we both did a visual walk through around the over inside the shell to cover whatever debris is left over. We secured the stand the high winds. NWD position the observatory to also shelter the collected and calibrated my pumps.	e plastic well so that it would with				
12:40 pm	Left job site.					
LEI Staff: Ni	cole Garaganza-Tengan	Date: 05/03/24				

Air Monitoring Log

Project No.:		Date: 05/03/24						
Client:			S	ampled By:	Nicole Gara	aganza-Teng	jan	
Project Site: Cal	tech Submil	limeter Obse	ervatory					
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 050324 L1 毋	OWA	7:50 am	12:25 pm ∎	2	2	2	275	550 L
Sample Location: Near large storage	shed							
Analyte: (select one)			OAsbe	stos 💽	Lead C	Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 050324 L2 ∎	OWA	7:50 am	12:25 pm ∎		2	2	275	550 L
Sample Location:								
South side of drive	way entrand	ce to job site						
(select one)	:		OAsbe	stos 🧿	Lead C	Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 050324 L3	OWA	7:50 am	12:25 pm	2	2	2	275	550 L
Sample Location: South-west corner	of job site	-						
Analyte: (select one)			OAsbe	stos 💽	Lead C) Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 050324 L4	OWA	7:50 am	12:25 pm	2	2	2	275	550 L
Sample Location: North-west corner	of job site							
Analytes (select one)			OAsbe	stos 💽	Lead C)Other:		

DAILY ACTIVITY LOG

Project: Mauna Kea CSO decomissioning

Page: <u>1</u> of <u>1</u> Date: 05/06/24

Scheduled Activity Building(s): Caltech Submillimeter Observatory Floor(s): N/A Room(s): N/A Image: Calter Submit State State

Time	Description				
7:30 am	Calvin arrive at Hale Pohaku to meet other parties involved with Decommissioning. Main people are Unitek (Jeffy) and Northwest Demo. Discussed plans and forecast for work for the week.				
10:30 am	Crews arrived at CSO. No paint chips seen around structure. Multiple crew members from different companies started sweeping and throwing debris into bottom dip of Telescope structure. No paint scrapin occured during this day due to high winds. At site, plastic was laid on the bottom dip of the structure with debris on top of it. All debris swept was 'general debris' and not lead containing. No lead-monitorring cassettes were setup because no lead disturbance.				
11:00 am	Burrito-wrapped debris was loaded onto flat-bed truck.				
12:00 pm	New plastic sheeting was cut and placed over debris and secured with weighted debris. No loose debris was present on ground floor. Tape and escavator bucket were placed on top layer of plastic to ensure it wouldn't move.				
12:30 pm	Leave work area. Work area left clean and free of visible concerns or debris				
LEI Staff: C	Calvin Arca Date: 05/06/24				

DAILY ACTIVITY LOG

Page: <u>1</u> of <u>1</u> Date: 05/13/24

Scheduled Activity					
Building(s):	Caltech Submil	limeter Observatory	Floor(s): N/	/Α	
Room(s):	pom(s): N/A				
Material to be disturbed: Lead paint. Silver panels and white framing.					

Time	Description			
8:30 am	Meeting at Hale Pohaku. Discussed plans for the day.			
9:30 am	Arrived to CSO. Air monitorring pumps and lead cassettes were setup around the area. Pump 1 setup by front entrance, Pump 2 setup by storage shed, Pump 3 setup on opposite side of front entrance behind barrier, Pump 4 setup on opposite side of storage behind barrier. All pumps setup around observatory structure. Upon arrival, checked plastic covering debris within observatory. Seemed secure and held up over the weekend.			
10:30 am	Northwest crew began using hydraulic cutters to cut exterior pieces of the observatory panels. Afterwards, focused on cutting the white metal framing of the observatory. Paint chips seen faling downward. Calvin and Unitek focused on picking up paint chips. Water truck sprayed water on debris and where debris was piled up to weigh down paint chips and dust.			
1:30 pm	Hydraulic cutter finished cutting. All debris piled toward center-dip of observatory. Multiple people worked to sweep debris into the center of the structure and pick up and vaccum paint chips on the ground. Debris in center-dip was covered with plastic.			
3:00 pm	Area was clean and free of visible debris. Pumps and cassettes collected.			
LEI Staff: (Calvin Arca Date: 05/13/24			

Air Monitoring Log

Project No.:			Date: 05/13/24					
Client:			S	ampled By:	Calvin Arca			
Project Site:	SO Decomise	sioning						
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/13/24 L1	OWA	9:30 am	3:00 pm	2	2	2	330	660
-	Sample Location: At gate / road entrance to observatory structure. Northeast of observatory.							
Analy (select o			OAsbe	stos 💽	Lead C	Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/13/24 L2	OWA	9:30 am	3:00 pm	2	2	2	330	660
Sample Location	1:							
In between the sto	rage sheds of t	he observator	ry structure. N	lorthwest of ob	servatory			
Analy (select o			OAsbe	stos 💽	Lead C) Other:		
Sample ID			Stop Time	Initial Flow	Final Flow	Avg. Flor	Total Time	
	Type*	Start Time	Stop Thie	(LPM)	(LPM)	(LPM)	(min.)	Total Vol. (liters)
CSO 5/13/24 L3	Type*	Start Time 9:30 am	3:00 pm	(LPM) 2		-		
CSO 5/13/24 L3 Sample Location Southwest of obse	OWA	9:30 am	3:00 pm	2	(LPM) 2	(LPM)	(min.)	(liters)
Sample Location	OWA :: ervatory. Oppos te:	9:30 am	3:00 pm	2 ntrance. Along	(LPM) 2	(LPM)	(min.)	(liters)
Sample Location Southwest of obse Analy	OWA :: ervatory. Oppos te:	9:30 am	3:00 pm gate / road e	2 ntrance. Along	(LPM) 2 rope barrier.	(LPM) 2	(min.)	(liters)
Sample Location Southwest of obse Analy (select o	OWA :: ervatory. Oppos te: Ine)	9:30 am ite side of the	3:00 pm gate / road e O Asbe	2 ntrance. Along stos	(LPM) 2 rope barrier. Lead C Final Flow	(LPM) 2) Other: Avg. Flor	(min.) 330	(liters) 660 Total Vol.
Sample Location Southwest of obse Analy (select o Sample ID	OWA Corvatory. Oppos te: Re Type* OWA	9:30 am ite side of the Start Time	3:00 pm gate / road e O Asbe Stop Time	2 ntrance. Along stos	(LPM) 2 rope barrier. Lead C Final Flow (LPM)	(LPM) 2) Other: Avg. Flor (LPM)	(min.) 330 Total Time (min.)	(liters) 660 Total Vol. (liters)
Sample Location Southwest of obse Analy (select o Sample ID CSO 5/13/24 L4	OWA Compose Co	9:30 am ite side of the Start Time 9:30 am	3:00 pm gate / road e O Asbe Stop Time 3:00 pm	2 ntrance. Along stos • Initial Flow (LPM) 2	(LPM) 2 rope barrier. Lead C Final Flow (LPM) 2	(LPM) 2) Other: Avg. Flor (LPM)	(min.) 330 Total Time (min.)	(liters) 660 Total Vol. (liters)

DAILY ACTIVITY LOG

Page: <u>1</u> of <u>1</u> Date: 05/14/24

Scheduled Activity				
Building(s):	Caltech Submil	limeter Observatory	Floor(s):	N/A
Room(s):	N/A			
Material to be disturbed: Lead paint. White framing and silver panels.				

Time	Description			
8:00 am	Meeting at Hale Pohaku. Discussed plans for the day.			
9:00 am	Arrived at CSO. Pumps and cassettes setup and placed around observatory in same manner as described before. Debris covered with plastic in center-dip of observatory was clean and stable, didn't move overnight.			
9:30 am	Crane and excavator moved debris in center-dip to make it easier to load monitor area and pick up paint chips as needed.	d dump trucks. Calvin and Unitek		
10:00 am	5 dump trucks on site. 1 truck at a time moved close to observatory to be excavator. Plastic was laid out at the area where trucks were loaded to c a cargo net to cover their beds after being loaded.			
12:00 pm	All 5 trucks finished loading. Northwest continued demoing more of the c to weigh paint chips down and control dust.	observatory. Water truck sprayed		
12:30 pm	Everyone focused on cleaning. Sweeping and moving debris into the cer Center-dip was covered with plastic. Calvin and Unitek focused on pickir around the area.			
2:00 pm	Pumps and cassettes collected.			
LEI Staff: C	alvin Arca	Date: 05/14/24		

Air Monitoring Log

Project No.:			Date: 05/14/24					
Client:			S	ampled By:	Calvin Arca			
Project Site:	CSO Decomise	sioning						
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/14/24 I	-1 OWA	9:00 am	2:00 pm	2	2	2	300	600
-	Sample Location: At gate / road entrance to observatory structure. Northeast of observatory.							
	lyte: et one)		OAsbe	stos 💽	Lead C	Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/14/24 L	-2 OWA	9:00 am	2:00 pm	2	2	2	300	600
Sample Locati	on:							
In between the	storage sheds of t	he observator	ry structure. N	lorthwest of ob	oservatory			
	lyte: et one)		OAsbe	stos 💽	Lead C) Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/14/24 L	-3 OWA	9:00 am	2:00 pm	2	2	2	300	600
Sample Location Southwest of ob-	on: oservatory. Oppos	ite side of the	gate / road e	ntrance. Along	rope barrier.			
	lyte: ct one)		OAsbe	stos 💽	Lead C) Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/14/24 L	-4 OWA	9:00 am	2:00 pm	2	2	2	300	600
Sample Locati								
Southeast of ob	servatory. Opposi	te side of the	storage shed	s. Along rope	barrier.			
	lyte: st one)		OAsbe	stos 💽	Lead C	Other:		

DAILY ACTIVITY LOG

Page: <u>1</u> of <u>1</u> Date: 05/15/24

Scheduled Activity						
Building(s):	Caltech Submil	limeter Observatory	Floor(s):	N/A		
Room(s):	N/A					
Material to be	Material to be disturbed: Lead paint. White framing and silver panels					

Time	Description				
8:00 am	Crews arrived at CSO. Pumps and cassettes were setup around the observatory in the same manner as before. Crane cutter focused on cutting demoing drywall within the structure that was still connected to intact panels to prevent debris splatter in the wind. Water truck also sprayed water where crane was demoing.				
9:00 am	Brief stop in work. All crews focused on picking up paint chips around the area. Work continued at 9:30 am.				
9:45 am	Brief stop in work. Hydraulic cutters' line disconnected.				
10:00 am	Continue cutting inside frames and drywall of 2 remaining sides of the o hydraulic crane focused collapsing 1 more side of the structure. Silver p Water truck sprayed water as needed. All available hands helped with p process.	anels and white metal framing.			
12:30 pm	Side of the observatory was finished demoing. Final cleanup performed picked up paint chips and sweeped and moved debris into the center-di				
2:00 pm	Area left clean and secure. Pumps and cassettes collected.				
LEI Staff: (" Calvin Arca	Date: 05/15/24			

Air Monitoring Log

Project No.:				Date:	05/15/24			
Client:			S	ampled By:	Calvin Arca			
Project Site:	CSO Decomise	sioning						
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/15/24 I	-1 OWA	8:00 am	2:00 pm	2	2	2	360	720
-	Sample Location: At gate / road entrance to observatory structure. Northeast of observatory.							
	lyte: ct one)		OAsbe	stos 💽	Lead C	Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/15/24 L	-2 OWA	8:00 am	2:00 pm	2	2	2	360	720
Sample Locati	on:							
In between the	storage sheds of t	he observator	y structure. N	lorthwest of ob	oservatory			
	lyte: et one)		OAsbestos OLead OOther:					
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/15/24 L	-3 OWA	8:00 am	2:00 pm	2	2	2	360	720
Sample Location Southwest of ob-	on: oservatory. Oppos	ite side of the	gate / road e	ntrance. Along	rope barrier.			
	lyte: ct one)		OAsbestos OLead OOther:					
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/15/24 L	-4 OWA	8:00 am	2:00 pm	2	2	2	360	720
Sample Locati								
Southeast of ob	servatory. Opposi	te side of the	storage shed	s. Along rope	barrier.			
		vatory. Opposite side of the storage sheds. Along rope barrier. ie: OAsbestos O Lead Other:						

DAILY ACTIVITY LOG

Page: <u>1</u> of <u>1</u> Date: 05/16/24

Scheduled Activity					
Building(s):	Caltech Submil	limeter Observatory	Floor(s): N/A		
Room(s):	N/A				
Material to be	disturbed:	Lead paint. White framing and silver panels.			

Time	Description
6:45 am	Meeting at Hale Pohaku. Discussed plans for the day.
8:00 am	Crews arrived at CSO. Pumps and cassettes setup in the same manner as described before. Area was very foggy and windy. Waited for all project leaders to arrive and discuss next course of action. It was decided that we would try loading 1 truck to see if debris would splatter upon moving stockpiled debris.
10:00 am	Started loading 1 dump truck at a time. All available hands spread out far to pick up paint chips if seen. Trucks were loaded slowly and only with big debris at the top, not the fine smaller debris at the bottom. A lower wall of the structure was left in tact to shield the piled debris in the center from wind flow.
12:30 pm	Trucks were loaded. Small debris in the center-dip wasn't touched ue to winds. All hands on site did as much as they could to pick up paint chips seen. Northwest continued demoing some metal framing. Constant vaccuming and picking up of material done by everyone.
1:00 pm	Work day done. Area left clean as possible. Center-dip of structure was covered with big pieces of material. Wind forecast for the night was low. Pumps and cassettes collected.
LEI Staff: 0	Calvin Arca Date: 05/16/24

Air Monitoring Log

Project No.:				Date:	05/16/24			
Client:			S	ampled By:	Calvin Arca			
Project Site:	CSO Decomiss	sioning						
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/16/24 I	_1 OWA	8:00 am	1:00 pm	2	2	2	300	600
-	Sample Location: At gate / road entrance to observatory structure. Northeast of observatory.							
	lyte: ct one)		OAsbe	stos 🧿	Lead C	Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/16/24 L	-2 OWA	8:00 am	1:00 pm	2	2	2	300	600
Sample Location:								
In between the	storage sheds of t	he observator	y structure. N	lorthwest of ob	oservatory			
	lyte: et one)		OAsbestos OLead OOther:					
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/16/24 L	-3 OWA	8:00 am	1:00 pm	2	2	2	300	600
Sample Location Southwest of ob-	on: oservatory. Oppos	ite side of the	gate / road e	ntrance. Along	rope barrier.			
	lyte: et one)		OAsbestos OLead OOther:					
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/16/24 L	_4 OWA	8:00 am	1:00 pm	2	2	2	300	600
Sample Locati								
	servatory. Oppos	ite side of the	storage shed	s. Along rope	barrier.			
Ana	lyte:		OAsbe	stos 🔘	Lead C) Other:		

DAILY ACTIVITY LOG

Page: <u>1</u> of <u>1</u> Date: 05/17/24

Scheduled Activity					
Building(s):	Caltech Submil	limeter Observatory	Floor(s):	N/A	
Room(s):	N/A				
Material to be	disturbed:	Lead paint. White framing and silver panels			

Time	Description	
6:45 am	Meeting at Hale Pohaku. Discuss plans for the day.	
8:00 am	Crews arrived on site. Area very windy, foggy, and cold. Plan for loading trucks for the day was can No pumps or cassettes were setup around the area due to no demolition. Crews focused on secur stockpiled debris in the center-dip of of the structure. Black fabric was placed over dip and weighed with heavy framing pieces to hold it down over the weekend.	ing
9:00 am	Work area left secure. Center-dip of observatory was completely covered with black fabric. Image: Covered with black fabric. Image	
LEI Staff:	Calvin Arca Date: 05/17/24	

DAILY ACTIVITY LOG

Page: <u>1</u> of <u>1</u> Date: 05/20/24

Scheduled Activity					
Building(s):	Caltech Submil	limeter Observatory	Floor(s): N/A		
Room(s):	N/A				
Material to be	disturbed:	Lead paint. White framing and silver panels.			

Time	Description	
8:30 am	Meeting at Hale Pohaku. Discussed plans for the day.	
10:00 am	Crews arrived at CSO structure. Northwest demolition and Unitek prepa debris from center-dip of the structure. Debris in the center was covere weekend. Unitek staff laid out plastic for dump trucks to set bed on for low.Pumps and cassettes setup.	d and seemed secure over the
10:30 am	Calvin hiked up Northeast to scout for paint chips supposedly seen last and went far. None seen, only general trash such as footballs, slippers CSO. Unitek remained at CSO to clean as dump trucks were loaded ar	, and white plastic pieces not from
1:30 pm	Northwest started demoing silver storage building to make room for col insulation seen in building. All hands helped to clean and remove insula possible. Water truck sprayed water to weigh down debris and limit trav	ation and sweep debris as soon as
2:30 pm	5 trucks loaded with debris and driving down.	
3:00 pm	Storage down. Pieces of storage were placed over center-dip of CSO. entire area for debris and paint chips. Calvin went far to scout for debris	
4:30 pm	End of day. Pumps and cassettes collected. Area left clean.	
LEI Staff:	Calvin Arca	Date: 05/20/24

Air Monitoring Log

Project No.:				Date:	05/20/24			
Client:			S	ampled By:	Calvin Arca			
Project Site:	CSO Decomiss	sioning						
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/20/24 L	-1 OWA	10:00 am	4:30 pm	2	2	2	390	780
-	Sample Location: At gate / road entrance to observatory structure. Northeast of observatory.							
	lyte: ct one)		OAsbe	estos 💽	Lead C	Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/20/24 L	-2 OWA	10:00 am	4:30 pm	2	2	2	390	780
Sample Locati	on:							
In between the	storage sheds of t	he observator	y structure. N	lorthwest of ob	oservatory			
	lyte: et one)		OAsbestos OLead OOther:					
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/20/24 L	-3 OWA	10:00 am	4:30 pm	2	2	2	390	780
Sample Location Southwest of ob-	on: oservatory. Oppos	ite side of the	gate / road e	ntrance. Along	rope barrier.			
	lyte: ct one)		OAsbestos OLead OOther:					
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/20/24 L	-4 OWA	10:00 am	4:30 pm	2	2	2	390	780
Sample Locati								
-	Sample Location:							
Southeast of ob	servatory. Opposi	te side of the	storage shed	s. Along rope	barrier.			

DAILY ACTIVITY LOG

Page: <u>1</u> of <u>1</u> Date: 05/21/24

Scheduled Activity					
Building(s):	Caltech Submil	limeter Observatory	Floor(s): N/A		
Room(s):	N/A				
Material to be	disturbed:	Lead paint. White framing and silver panels.			

Time	Description	
6:45 am	Meeting at Hale Pohaku. Discussed plans for the day.	
7:30 am	Crews arrived to CSO. Northwest demolition focused on manipulat make it easier for loading. No debris on the ground, not affected by vaccums and plastic for truck loading. Pumps and casettes setup a	v overnight winds. Unitek setup
9:00 am	Dump trucks on site. Trucks were loaded with debris from CSO 1 b debris cleanup during loading. Wind flow now coming from the nort Had to pickup debris on 'downhill' side of the structure now. Occasi down and reduce travel.	theast to the southwest of the structure.
10:00 am	3 trucks done loading. Northwest demolition started taking off exter and began demoing the last of the interior drywalls. Watertruck use hands worked on cleaning and picking up debris during the proces	ed to keep dust down. All available
11:30 am	Northwest demolition began focusing on cutting more framing on th	ne rings to prepare for ring-takedown.
1:30 pm	Observatory ring dropped. All available hands assissted with clean focused on cutting the ring into smaller pieces and placing them on placed over section with small debris. Big pieces remained in the c	nto center-dip of structure. Plastic
3:35 pm	Work day done. Area left clean. Pumps and cassettes collected. Le	eft job site.
LEI Staff:	Calvin Arca	Date: 05/21/24

Air Monitoring Log

Project No.:				Date:	05/21/24			
Client:			S	ampled By:	Calvin Arca			
Project Site:	CSO Decomise	sioning						
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/21/24 L	-1 OWA	7:30 am	3:30 pm	2	2	2	480	960
-	Sample Location: At gate / road entrance to observatory structure. Northeast of observatory.							
Ana (selec	lyte: t one)		OAsbe	stos 💽	Lead C	Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/21/24 L	-2 OWA	7:30 am	3:30 pm	2	2	2	480	960
Sample Location	on:							
Next to water-pu	ump shed of the o	bservatory str	ucture. North	west of observ	atory			
Ana (selec	lyte: t one)		OAsbestos OLead OOther:					
Sample ID	Type*	Start Time	Stop Time	Initial Flow	Final Flow	Avg. Flor	Total Time	
	- , , , , , , , , , , , , , , , , , , ,	Stat Thie	Stop Thine	(LPM)	(LPM)	(LPM)	(min.)	Total Vol. (liters)
CSO 5/21/24 L		7:30 am	3:30 pm	(LPM) 2		-		
Sample Location	.3 OWA	7:30 am	3:30 pm	2	(LPM) 2	(LPM)	(min.)	(liters)
Sample Location Southwest of ob	.3 OWA	7:30 am	3:30 pm	2 ntrance. Along	(LPM) 2	(LPM)	(min.)	(liters)
Sample Location Southwest of ob	.3 OWA on: oservatory. Oppos	7:30 am	3:30 pm gate / road e	2 ntrance. Along	(LPM) 2 rope barrier.	(LPM) 2	(min.)	(liters)
Sample Location Southwest of ob Ana (select	.3 OWA on: oservatory. Oppos lyte: tone) Type*	7:30 am ite side of the	3:30 pm gate / road e	2 ntrance. Along stos	(LPM) 2 rope barrier. Lead C Final Flow	(LPM) 2) Other: Avg. Flor	(min.) 480 Total Time	(liters) 960 Total Vol.
Sample Location Southwest of ob Ana (select Sample ID	.3 OWA on: oservatory. Oppos lyte: tone) Type* .4 OWA	7:30 am ite side of the Start Time	3:30 pm gate / road e O Asbe Stop Time	2 ntrance. Along stos	(LPM) 2 rope barrier. Lead C Final Flow (LPM)	(LPM) 2) Other: Avg. Flor (LPM)	(min.) 480 Total Time (min.)	(liters) 960 Total Vol. (liters)
Sample Location Southwest of ob Ana (select Sample ID CSO 5/21/24 L Sample Location	.3 OWA on: oservatory. Oppos lyte: tone) Type* .4 OWA	7:30 am ite side of the Start Time 7:30 am	3:30 pm gate / road e O Asbe Stop Time 3:30 pm	2 ntrance. Along stos Initial Flow (LPM) 2	(LPM) 2 rope barrier. Lead C Final Flow (LPM) 2	(LPM) 2) Other: Avg. Flor (LPM)	(min.) 480 Total Time (min.)	(liters) 960 Total Vol. (liters)

DAILY ACTIVITY LOG

Page: <u>1</u> of <u>1</u> Date: 05/22/24

		Scheduled Activity		
Building(s):	Caltech Submil	limeter Observatory	Floor(s): N/A	
Room(s):	N/A			
Material to be	disturbed:	Lead paint. White and red framing and silver panels.		

Time	Description	
6:45 am	Meeting at Hale Pohaku. Discussed plans for the day.	
7:30 am	Crews arrived to CSO. Northwest demolition focused on manipulating de make it easier for loading. No debris on the ground, not affected by over vaccums and plastic for truck loading. Pumps and casettes setup around	night winds. Unitek setup
8:00 am	Crane cutter started cutting material. Water truck started watering struct	ure to keep dust down.
8:50 am	1st truck started loading. Water truck used water occasionally to keep du ground to keep ground clean. Staff standby to clean as needed. 4 Truck	
11:00 am	Standby. Watertruck stuck in different location.	
12:30 pm	Watertruck returned. Northwest crew focused on knocking down 2nd rin Ring was brought down at 1:00 pm. Crew then focused on taking apart r dip of structure.	
2:00 pm	Final cleaning of area. All debris swept up and placed in center dip of stininght. Work area left clean.	ructure. Wind forecast low for the
LEI Staff: C	" Calvin Arca	Date: 05/22/24

Air Monitoring Log

Project No.:				Date:	05/22/24			
Client:			S	ampled By:	Calvin Arca			
Project Site: C	SO Decomiss	sioning						
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/22/24 L1	OWA	7:30 am	2:00 pm	2	2	2	390	780
Sample Location At gate / road entra		atory structure	e. Northeast c	of observatory.				
Analy (select on			OAsbe	estos 💽	Lead C	Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/22/24 L2	OWA	7:30 am	2:00 pm	2	2	2	390	780
Sample Location	:							
Next to water-pum	o shed of the o	bservatory str	ucture. North	west of observ	atory			
	OAsbestos OLead OOther:							
Analy1 (select on			OAsbe	estos 🧿	Lead C	Other:		
•		Start Time	O Asbe	Initial Flow (LPM)	Lead C Final Flow (LPM)	Other: Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
(select on	2)	Start Time 7:30 am		Initial Flow	Final Flow	Avg. Flor		
(select on Sample ID	Type* OWA	7:30 am	Stop Time 2:00 pm	Initial Flow (LPM) 2	Final Flow (LPM) 2	Avg. Flor (LPM)	(min.)	(liters)
(select on Sample ID CSO 5/22/24 L3 Sample Location	Type* OWA Tvatory. Oppos e:	7:30 am	Stop Time 2:00 pm	Initial Flow (LPM) 2 ntrance. Along	Final Flow (LPM) 2	Avg. Flor (LPM)	(min.)	(liters)
(select on Sample ID CSO 5/22/24 L3 Sample Location Southwest of obse Analyt	Type* OWA Tvatory. Oppos e:	7:30 am	Stop Time 2:00 pm gate / road e	Initial Flow (LPM) 2 ntrance. Along	Final Flow (LPM) 2 rope barrier.	Avg. Flor (LPM) 2	(min.)	(liters)
(select on Sample ID CSO 5/22/24 L3 Sample Location Southwest of obse Analyt (select on	Type* OWA : rvatory. Oppos	7:30 am ite side of the	Stop Time 2:00 pm gate / road e O Asbe	Initial Flow (LPM) 2 ntrance. Along stos	Final Flow (LPM) 2 rope barrier. Lead Final Flow	Avg. Flor (LPM) 2) Other: Avg. Flor	(min.) 390 Total Time	(liters) 780 Total Vol.
(select on Sample ID CSO 5/22/24 L3 Sample Location Southwest of obse Analyt (select on Sample ID	Type* OWA Type* Type* Type* OWA	7:30 am ite side of the Start Time	Stop Time 2:00 pm gate / road e O Asbe Stop Time	Initial Flow (LPM) 2 ntrance. Along stos	Final Flow (LPM) 2 rope barrier. Lead C Final Flow (LPM)	Avg. Flor (LPM) 2) Other: Avg. Flor (LPM)	(min.) 390 Total Time (min.)	(liters) 780 Total Vol. (liters)
(select on Sample ID CSO 5/22/24 L3 Sample Location Southwest of obse Analyt (select on Sample ID CSO 5/22/24 L4	Type* OWA Covatory. Oppos Covatory. Oppos Type* OWA Covatory	7:30 am ite side of the Start Time 7:30 am	Stop Time 2:00 pm gate / road e O Asbe Stop Time 2:00 pm	Initial Flow (LPM) 2 ntrance. Along stos Initial Flow (LPM) 2	Final Flow (LPM) 2 rope barrier. Lead C Final Flow (LPM) 2	Avg. Flor (LPM) 2) Other: Avg. Flor (LPM)	(min.) 390 Total Time (min.)	(liters) 780 Total Vol. (liters)

DAILY ACTIVITY LOG

Page: <u>1</u> of <u>1</u> Date: 05/23/24

		Scheduled Activity		
Building(s):	Caltech Submil	limeter Observatory	Floor(s):	N/A
Room(s):	N/A			
Material to be	disturbed:	Lead paint. White and red framing and silver panels.		

Time	Description	
6:45 am	Meeting at Hale Pohaku. Discussed plans for the day as well as second	meeting to discuss soil sampling.
8:00 am	Arrived to CSO. Northwest and Unitek crew on site preparing for loading Cassettes were setup around work area. First truck was loaded at 8:50 a picked up debris as needed. Watertruck sprayed water occasionally to k	am. Staff on standby cleaned and
10:00 am	Northwest crew started removing exterior silver panels on lower deck of needed. Available hands picked up debris as needed. Water used to kee	
10:30 am	4 trucks finished loading.	
11:30 am	Exterior silver panels on lower deck removed. All hands picked up and s bagged them. Bigger pieces were thrown into center-dip of structure.	wept up now-exposed debris and
12:30 pm	All exposed debris now taken care of. Northwest crew continued cutting structure. Northwest manipulated debris in center of the structure so big	
3:00 pm	Cutting of debris in center-dip done. All available hands cleaned up visib Scouted outside work area for paint chips. Debris in center-dip was secu and casettes collected. Work site clean.	
LEI Staff: C	alvin Arca	Date: 05/23/24

Air Monitoring Log

Project No.:				Date:	05/23/24			
Client:			S	ampled By:	Calvin Arca			
Project Site:	SO Decomiss	ioning						
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/23/24 L1	OWA	8:00 am	3:00 pm	2	2	2	420	840
Sample Location At gate / road entr		atory structure	e. Northeast c	f observatory.				
Analy (select o			OAsbe	stos 💽	Lead C	Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/23/24 L2	OWA	8:00 am	3:00 pm	2	2	2	420	840
Sample Location	1:							
Next to water-pur	np shed of the o	bservatory str	ucture. North	west of observ	atory			
Analy	OAsbestos OLead OOther:							
(select o			OAsbe	stos 💽	Lead C) Other:		
•		Start Time	O Asbe	stos (Initial Flow) (LPM)	Lead C Final Flow (LPM)	Other: Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
(select o	ne)	Start Time 8:00 am		Initial Flow	Final Flow	Avg. Flor		
(select o Sample ID	Type* OWA	8:00 am	Stop Time 3:00 pm	Initial Flow (LPM) 2	Final Flow (LPM) 2	Avg. Flor (LPM)	(min.)	(liters)
(select o Sample ID CSO 5/23/24 L3 Sample Location	Type* OWA a: ervatory. Oppos te:	8:00 am	Stop Time 3:00 pm	Initial Flow (LPM) 2 ntrance. Along	Final Flow (LPM) 2	Avg. Flor (LPM)	(min.)	(liters)
(select o Sample ID CSO 5/23/24 L3 Sample Location Southwest of obset Analy	Type* OWA a: ervatory. Oppos te:	8:00 am	Stop Time 3:00 pm gate / road e	Initial Flow (LPM) 2 ntrance. Along	Final Flow (LPM) 2 rope barrier.	Avg. Flor (LPM) 2	(min.)	(liters)
(select o Sample ID CSO 5/23/24 L3 Sample Location Southwest of obse Analy (select o	Type* OWA 1: ervatory. Oppos te: ne) Type*	8:00 am ite side of the	Stop Time 3:00 pm gate / road e O Asbe	Initial Flow (LPM) 2 ntrance. Along stos	Final Flow (LPM) 2 rope barrier. Lead Final Flow	Avg. Flor (LPM) 2) Other: Avg. Flor	(min.) 420 Total Time	(liters) 840 Total Vol.
(select o Sample ID CSO 5/23/24 L3 Sample Location Southwest of obse Analy (select o Sample ID	Type* OWA Compose Comp	8:00 am ite side of the Start Time	Stop Time 3:00 pm gate / road e O Asbe Stop Time	Initial Flow (LPM) 2 ntrance. Along stos Initial Flow (LPM)	Final Flow (LPM) 2 rope barrier. Lead C Final Flow (LPM)	Avg. Flor (LPM) 2) Other: Avg. Flor (LPM)	(min.) 420 Total Time (min.)	(liters) 840 Total Vol. (liters)
(select o Sample ID CSO 5/23/24 L3 Sample Location Southwest of obset Analy (select o Sample ID CSO 5/23/24 L4	Type* OWA Compose Comp	8:00 am ite side of the Start Time 8:00 am	Stop Time 3:00 pm gate / road e O Asbe Stop Time 3:00 pm	Initial Flow (LPM) 2 ntrance. Along stos Initial Flow (LPM) 2	Final Flow (LPM) 2 rope barrier. Lead C Final Flow (LPM) 2	Avg. Flor (LPM) 2) Other: Avg. Flor (LPM)	(min.) 420 Total Time (min.)	(liters) 840 Total Vol. (liters)

DAILY ACTIVITY LOG

Page: <u>1</u> of <u>1</u> Date: 05/24/24

		Scheduled Activity	
Building(s):	Caltech Submil	limeter Observatory	Floor(s): N/A
Room(s):	N/A		
Material to be	disturbed:	Lead paint. White and red framing and silver panels.	

Time	Description	
6:45 am	Meeting at Hale Pohaku. Discussed plans for the day.	
7:30 am	Arrived at CSO. Checked exterior of work area for debris. None seen. Ur area to load up debris onto trucks. Pumps and Cassettes set up around v	
12:00 pm	5 trucks loaded. In between loading trucks, excavator operator manipula pieces and panels over center-dip of the structure. All available hands clo loading.	
12:30 pm	Pumps and cassettes collected. Debris was secured in the center-dip of clean.	the structure. Left work area
LEI Staff: C	Il Calvin Arca	Date: 05/24/24

Air Monitoring Log

Project No.:					Date:	05/24/24			
Client:				S	ampled By:	Calvin Arca			
Project Site:	CSO	Decomiss	ioning						
Sample ID		Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/24/24 I	L1	OWA	7:30 am	12:30 pm	2	2	2	300	600
Sample Location At gate / road e		e to observa	atory structure	e. Northeast o	of observatory.				
	lyte: ct one)			OAsbe	estos 💽	Lead C	Other:		
Sample ID		Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/24/24 L	L2	OWA	7:30 am	12:30 pm	2	2	2	300	600
Sample Locati	on:								
Next to water-pu	ump sh	ned of the ol	oservatory str	ucture. North	west of observ	atory			
Analyte:									
	l yte: ct one)			OAsbe	estos 💽	Lead C) Other:		
	ct one)	Type*	Start Time	O Asbe	stos Initial Flow (LPM)	Lead C Final Flow (LPM)	Other: Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
(selec	ct one)	Type*	Start Time 7:30 am		Initial Flow	Final Flow	Avg. Flor		
(selec	L3	OWA	7:30 am	Stop Time 12:30 pm	Initial Flow (LPM) 2	Final Flow (LPM) 2	Avg. Flor (LPM)	(min.)	(liters)
(select Sample ID CSO 5/24/24 L Sample Location Southwest of obt Ana	L3	OWA	7:30 am	Stop Time 12:30 pm	Initial Flow (LPM) 2 ntrance. Along	Final Flow (LPM) 2	Avg. Flor (LPM)	(min.)	(liters)
(select Sample ID CSO 5/24/24 L Sample Location Southwest of obt Ana	L3 Oon: oservato	OWA	7:30 am	Stop Time 12:30 pm gate / road e	Initial Flow (LPM) 2 ntrance. Along	Final Flow (LPM) 2 rope barrier.	Avg. Flor (LPM) 2	(min.)	(liters)
(selec Sample ID CSO 5/24/24 L Sample Locati Southwest of ob Ana (selec	L3 Con: coservato llyte: ct one)	OWA ory. Opposi	7:30 am te side of the	Stop Time 12:30 pm gate / road e O Asbe	Initial Flow (LPM) 2 ntrance. Along stos	Final Flow (LPM) 2 rope barrier. Lead Final Flow	Avg. Flor (LPM) 2) Other: Avg. Flor	(min.) 300	(liters) 600 Total Vol.
(select Sample ID CSO 5/24/24 L Sample Location Southwest of ob Ana (select Sample ID	L3 Con: coservate ct one)	OWA ory. Opposi Type*	7:30 am te side of the Start Time	Stop Time 12:30 pm gate / road e O Asbe Stop Time	Initial Flow (LPM) 2 ntrance. Along stos	Final Flow (LPM) 2 rope barrier. Lead C Final Flow (LPM)	Avg. Flor (LPM) 2) Other: Avg. Flor (LPM)	(min.) 300 Total Time (min.)	(liters) 600 Total Vol. (liters)
(select Sample ID CSO 5/24/24 L Sample Location Southwest of oth Ana (select Sample ID CSO 5/24/24 L	L3 On: oservato llyte: ct one)	OWA ory. Opposi Type* OWA	7:30 am te side of the Start Time 7:30 am	Stop Time 12:30 pm gate / road e O Asbe Stop Time 12:30 pm	Initial Flow (LPM) 2 ntrance. Along stos Initial Flow (LPM) 2	Final Flow (LPM) 2 rope barrier. Lead C Final Flow (LPM) 2	Avg. Flor (LPM) 2) Other: Avg. Flor (LPM)	(min.) 300 Total Time (min.)	(liters) 600 Total Vol. (liters)

DAILY ACTIVITY LOG

Page: <u>1</u> of <u>1</u> Date: 05/28/24

		Scheduled Activity		
Building(s):	Caltech Submil	limeter Observatory	Floor(s):	N/A
Room(s):	N/A			
Material to be	disturbed:	Lead paint containing materials. Loose debris.		

Time	Description
6:45 am	Meeting at Hale Pohaku. Discussed plans for the day.
8:30 am	Arrived to CSO. Area was clean.
9:30 am	Northwest started loading debris from concrete platform of the telescope. Water utilized as needed to keep dust down. Unitek prepared loading area by laying down plastic and constantly sweeping debris as needed. Pumps and cassettes setup around work area.
12:30 pm	3 trucks done loading. All hands clean area as needed. Delay due to excavator self-cleaning mode.
1:00 pm	Northwest began removing rotating red metal piece that circulated around structure. All removed by 1:30 pm.
2:30 pm	All available hands cleaned debris around work area. No paint chips seen. Covered debris on the concrete platform of CSO with plastic, especially soft insulation. Debris very saturated, water seen collecting on concrete plateform. Wind forecast for the night was low. Pumps and cassettes collected. Left work area.
LEI Staff: (Calvin Arca Date: 05/28/24

Air Monitoring Log

Project No.:					Date:	05/28/24			
Client:				S	ampled By:	Calvin Arca			
Project Site:	CSO D	Decomissi	ioning						
Sample ID		Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/28/24 I	L1 (OWA	9:30 am	2:30 pm	2	2	2	300	600
Sample Location At gate / road e		to observa	tory structure	. Northeast o	f observatory.				
	lyte: ct one)			OAsbe	stos 💽	Lead C	Other:		
Sample ID	-	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/28/24 L	L2 (OWA	9:30 am	2:30 pm	2	2	2	300	600
Sample Locati	on:								
Next to water-pu	ump shec	d of the ob	oservatory str	ucture. North	west of observ	atory			
Analyte:									
	lyte: ct one)			OAsbe	stos O	Lead C	Other:		
	ct one)	Type*	Start Time	O Asbe Stop Time	stos O	Lead C Final Flow (LPM)	Other: Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
(selec	ct one)	Type*	Start Time 9:30 am		Initial Flow	Final Flow	Avg. Flor		
(selec	L3 (0n:	OWA	9:30 am	Stop Time 2:30 pm	Initial Flow (LPM) 2	Final Flow (LPM) 2	Avg. Flor (LPM)	(min.)	(liters)
(select Sample ID CSO 5/28/24 L Sample Location Southwest of obt Ana	L3 (0n:	OWA	9:30 am	Stop Time 2:30 pm	Initial Flow (LPM) 2 ntrance. Along	Final Flow (LPM) 2	Avg. Flor (LPM)	(min.)	(liters)
(select Sample ID CSO 5/28/24 L Sample Location Southwest of obt Ana	L3 (On: DSErvatory lyte: ct one	OWA	9:30 am	Stop Time 2:30 pm gate / road e	Initial Flow (LPM) 2 ntrance. Along	Final Flow (LPM) 2 rope barrier.	Avg. Flor (LPM) 2	(min.)	(liters)
(selec Sample ID CSO 5/28/24 L Sample Locati Southwest of ob Ana (selec	L3 (On: DSErvatory lyte: Ct one)	OWA ry. Opposit	9:30 am te side of the	Stop Time 2:30 pm gate / road e O Asbe	Initial Flow (LPM) 2 ntrance. Along stos	Final Flow (LPM) 2 rope barrier. Lead Final Flow	Avg. Flor (LPM) 2) Other: Avg. Flor	(min.) 300	(liters) 600 Total Vol.
(select Sample ID CSO 5/28/24 L Sample Location Southwest of ob Ana (select Sample ID	L3 (On: Deservatory Lyte: L4 (OWA ry. Opposit Type*	9:30 am te side of the Start Time	Stop Time 2:30 pm gate / road e O Asbe Stop Time	Initial Flow (LPM) 2 ntrance. Along stos Initial Flow (LPM)	Final Flow (LPM) 2 rope barrier. Lead C Final Flow (LPM)	Avg. Flor (LPM) 2) Other: Avg. Flor (LPM)	(min.) 300 Total Time (min.)	(liters) 600 Total Vol. (liters)
(select Sample ID CSO 5/28/24 L Sample Location Southwest of oth Ana (select Sample ID CSO 5/28/24 L	L3 (On: DSErvatory Lyte: L4 (On:	OWA ry. Opposit Type* OWA	9:30 am te side of the Start Time 9:30 am	Stop Time 2:30 pm gate / road en O Asbe Stop Time 2:30 pm	Initial Flow (LPM) 2 ntrance. Along stos Initial Flow (LPM) 2	Final Flow (LPM) 2 rope barrier. Lead C Final Flow (LPM) 2	Avg. Flor (LPM) 2) Other: Avg. Flor (LPM)	(min.) 300 Total Time (min.)	(liters) 600 Total Vol. (liters)

DAILY ACTIVITY LOG

Page: <u>1</u> of <u>1</u> Date: 05/29/24

Scheduled Activity					
Building(s):	Caltech Submil	Caltech Submillimeter Observatory Floor(s): N/A			
Room(s):	N/A	N/A			
Material to be	disturbed:	Lead paint building materials. loose debris.			

Time	Description
6:45 am	Meeting at Hale Pohaku. Discussed plans for the day.
8:30 am	Arrived to CSO. Pumps and cassettes setup. Unitek and Northwest onsite to prepare loading trucks. Area prepared for loading and all hands cleaned as needed. Plastic was laid down at loading area.
10:30 am	All trucks finished loading. Red metal ring tracks were loaded onto flatbed hauling trucks in stable pieces. All hands cleaned work area.
11:00 am	Goodfellow started hammering raised concrete lip. Water as needed to keep dust down.
1:00 pm	Goodfellow stopped hammering ring. Constant repairs on hydraulic lines. Switched to bucket and started focusing on cesspool digging. Calvin and Nicole did mock-sampling. Meanwhile, all available hands cleaned up the CSO side of the building for loose debris.
2:30 pm	Done cleaning. Pumps and cassettes collected. Cesspool area roped off. Left work area.
LEI Staff: 0	Calvin Arca Date: 05/29/24

Air Monitoring Log

Project No.:				Date:	05/29/24			
Client:			S	ampled By:	Calvin Arca			
Project Site:	SO Decomiss	ioning						
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/29/24 L1	OWA	8:30 am	2:30 pm	2	2	2	360	720
Sample Location: At gate / road entrance to observatory structure. Northeast of observatory.								
Analy (select o			OAsbe	stos 💽	Lead C	Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/29/24 L2	OWA	8:30 am	2:30 pm	2	2	2	360	720
Sample Location	1:							
Next to container	stored on work a	area. Next to	rope barrier. I	Northwest of o	bservatory			
Analy (select o			OAsbestos OLead OOther:					
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/29/24 L3	OWA	8:30 am	2:30 pm	2	2	2	360	720
-	Sample Location: Southwest of observatory. Opposite side of the gate / road entrance. Along rope barrier.							
Analyte: (select one)			OAsbe	stos 💽	Lead C) Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/29/24 L4	OWA	8:30 am	2:30 pm	2	2	2	360	720
1	Sample Location: Southeast of observatory. Opposite side of the storage sheds. Along rope barrier.							
Analyte:			Asbestos • Lead Other:					

DAILY ACTIVITY LOG

Page: <u>1</u> of <u>1</u> Date: 05/30/24

		Scheduled Activ	ity	
Building(s):	Caltech Submil	Caltech Submillimeter Observatory Floor(s): N/A		
Room(s):	N/A			
Material to be	disturbed:	Remaining loose debris from CSO.	On concrete platform. Cesspool soil.	

Time	Description		
6:45 am	Meeting at Hale Pohaku. Discussed plans for the day.		
7:30 am	Arrived at CSO. Setup pumps and cassettes around area. Prepare for cesspool soil sampling. Unitek and Northwest on site preparing for loading debris.		
8:30 am	White pump house shed was taken down and disposed of. Last lead stru possible paint chips.	ucture in work area besides	
9:30 am	Goodfellow excavator did not work on cesspool. Switched sides to remove structure. Used hammer attachment to do so. Water used as needed to were on CSO concrete platform shovelling and sweeping debris into load truck.	keep dust down. Available hands	
11:00 am	2nd excavator from goodfellows arrived for cesspool digging. Meanwhile machinery. All hands cleaned work area as much as possible before hea		
1:00 pm	Prepare area for soil sampling. Plastic laid out with burms. Excavator loa sampled. PID reader nearby to track VOC concentrations. No concerns s		
2:30 pm	Pumps and cassettes collected. Work area was clean. Cesspool roped c area.	off. Equipment collected. Left work	
LEI Staff: C	alvin Arca	Date: 05/30/24	

Air Monitoring Log

Project No.:				Date:	05/30/24			
Client:			S	ampled By:	Calvin Arca			
Project Site:	CSO Decomiss	ioning						
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/30/24 L	.1 OWA	7:30 am	2:30 pm	2	2	2	420	840
-	Sample Location: At gate / road entrance to observatory structure. Northeast of observatory.							
Ana (selec	lyte: t one)		OAsbe	stos 💽	Lead C) Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/30/24 L	.2 OWA	7:30 am	2:30 pm	2	2	2	420	840
Sample Location	on:							
Next to containe	er stored on site w	ithin work are	a. Next to rop	e barrier. Nort	hwest of obser	rvatory		
Ana (selec	lyte: t one)		OAsbe	stos 💽	Lead C) Other:		
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/30/24 L	.3 OWA	7:30 am	2:30 pm	2	2	2	420	840
Sample Location: Southwest of observatory. Opposite side of the gate / road entrance. Along rope barrier.								
Southwest of ob		te side of the	gate / road e	ntrance. Along	rope barrier.			
Ana	servatory. Oppos	ite side of the	gate / road e O Asbe		rope barrier. Lead C)Other:		
Ana	servatory. Oppos	ite side of the Start Time) Other: Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
Ana (selec	servatory. Oppos lyte: tone Type*		OAsbe	stos 💽	Lead C	Avg. Flor		
Ana (selec Sample ID	servatory. Oppos lyte: t one) Type* .4 OWA	Start Time	Asbe Stop Time	stos O	Lead C Final Flow (LPM)	Avg. Flor (LPM)	(min.)	(liters)
Ana (selec Sample ID CSO 5/30/24 L Sample Locatio	servatory. Oppos lyte: t one) Type* .4 OWA	Start Time 7:30 am	Asbe Stop Time 2:30 pm	stos Initial Flow (LPM) 2	Lead C Final Flow (LPM) 2	Avg. Flor (LPM)	(min.)	(liters)

DAILY ACTIVITY LOG

Page: <u>1</u> of <u>1</u> Date: 05/31/24

		Scheduled Activity			
Building(s):	Caltech Submil	Caltech Submillimeter Observatory Floor(s): N/A			
Room(s):	s): N/A				
Material to be disturbed: Remaining loose debris from CSO. On concrete platform. Cesspool soil.					

Time	Description		
6:45 am	Meeting at Hale Pohaku. Discussed plans for the day.		
7:30 am	Arrived at CSO. Unitek staff walked around outside of work area to look for any remaining paint chips. Calvin prepare for soil sampling.		
8:30 am	Goodfellow started hammering concrete base of CSO (Not lower concred down, awaited repairs for the day.	ete skirt). Excavator for cesspool	
10:30 am	Unitek gathered all signatures of monitors for clearance. Left job site. Ar	ea free of paint chips.	
11:00 am	Brief digging and sampling of cesspool. Material laid on top of plastic. Calvin gathered samples. Excavator later went on for more repairs.		
1:00 pm	Continue digging cesspool. Calvin monitor VOCs with PID. Calvin gathe management.	r samples and advise for material	
3:00 pm	Work done. Cesspool not finished. Soil stockpiles covered with plastic. S	Samples kept cool. Left work area.	
LEI Staff: 0	" Calvin Arca	Date: 05/31/24	

DAILY ACTIVITY LOG

Page: <u>1</u> of <u>1</u> Date: 06/03/24

Scheduled Activity					
Building(s):	Caltech Submil	Caltech Submillimeter Observatory Floor(s): N/A			
Room(s):	N/A	N/A			
Material to be	disturbed:	Cesspool soil.			

Time	Description		
7:00 am	Meeting at Hale Pohaku. Discussed plans for the day.		
7:30 am	Arrived at CSO. Goodfellow started digging cesspool and chipping concrete slab for CSO. Concrete demo area was watered occasionally to control dust. VOC readings done while working near cesspool. Soil sampling done while excavator stockpiled soils. stockpiled soils rested on plastic.		
11:30 am	Reached base of cesspool. Last of DU 2 samples taken.		
1:30 pm	Reached section of cesspool under concrete base. Concrete base removed. All discoloration (dark spots) removed. Soil placed on top of DU 3. Calvin sampled scoops of soil from DU 3.		
3:00 pm	All soil samples from DU 2 and DU 3 taken. All stockpiled soils covered and secured with plastic. Left work area.		
LEI Staff: C	Calvin Arca Date: 06/03/24		