

Lehua Environmental Inc.

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.



Methodology

Lead Air Monitoring Activities

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

Mr. Kama Kobayashi Lehua Environmental Inc. P.O. Box 1018

Kamuela HI 96743

Phone Number: (808)494-0365

Facsimile:

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	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						

Mr. Kama Kobayashi
Lehua Environmental Inc.

Phone Number: (808)494-0365

P.O. Box 1018 Facsimile:

Kamuela HI 96743 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

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.

Sent the Line

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

MRL = Method Reporting Limit.

Jennifer Hsu Liao Laboratory Manager

		☐ New Client?		19/19/51/13 TENDO	a Agent Jerta		Manufacture and the state of th		M 400		
HAWAII	L	Report To*	:	Kamalana Kobay	yashi		Invoice To*	: Ka	ımalana Kobayashi		
LABORATO	DRY, LLC	Company		ehua Environmen			Company		: Lehua Environmental Inc.		
, ·	~	Address*		PO BOX 101			Address*		PO BOX 1018		
			ĸ	amuela, Hawaii s			radicas	·	nuela, Hawaii 96743		
		Phone / Cell No.*	: 808-494-0365				Phone / Cell No.*	. Nan	808-494-0365		
3615 Harding Avenue, Suite	308	Control agency to the control of									
Honolulu, HI 96816 Ph: 808-735-0422 - Fax: 808	3-735-0047	Report results to	•	K. Kobayash			Purchase Order No.	· :	K. Kobayashi		
https://analyzehawaii.com		Email / Fax	: <u>Lehua</u>	environmental@	gmail.com		Email Invoice To	: Lehuaen	vironmental@gmail.com		
Need Results By*:			-								
5 Working Days (WD)											
4 WD	Site	e/Project Name:			IC	Client Proj	ect No.:	Verbal results?	Sampled By & Certif. # :		
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4 hours or less		Do n	ot analyze blank u	ntil further notice	8		+ stop / SAMPLE		202404826		
1-2 hours	irs						+ stop / LAYER		2021010		
Sample ID	Sample	Description*	Date Sampled* (mm/dd/yy)	Collection Medium	Sample A		Analysis Requested*	Method Reference	Lab Sample(s) No.:		
042924-C-L1	Lead Air Sample		4/29/2024	cassette	720 L	L .	Lead Air		202433370		
042924-C-L2	Lead Air Sample		4/29/2024	cassette	720 L	L	Lead Air		202433371		
042924-C-L3	Lead	Air Sample	4/29/2024	cassette	720 L	L	Lead Air		202433372		
042924-C-L4	Lead	Air Sample	4/29/2024	cassette	720 L		Lead Air		202433373		
042924-C-L5 (Blank)	Lead	Air Sample	4/29/2024	cassette	720 L	_	Lead Air		202433374		
043024-C-L1	Lead	Air Sample	4/30/2024	cassette	720 L	_	Lead Air		202433375		
043024-C-L2	Lead	Air Sample	4/30/2024	cassette	720 L		Lead Air		202433376		
043024-C-L3	Lead	Air Sample	4/30/2024	cassette	720 L	-	Lead Air		202433377		
043024-C-L4	Lead	Air Sample	4/30/2024	cassette	720 L	_	Lead Air		202433378		
043024-C-L5 (blank)	Lead	Air Sample	4/30/2024	cassette	720 L	_	Lead Air		202433379		
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*Sample description can be If matrix is 'soil', please spec				ction	K	Via HAC			via FedEx		
All samples submitted are su	ıbject to Hawaii Analyt	ical Laboratory terms and co	onditions.		aw	vb#: 173€	Usps Usps Usps	3.0000	- I w prost up		
*Required fields, failure to co	omplete these fields ma	ay result in a delay in your sa	amples being process	sed.			16747		Page: of		



Hawaii Analytical Laboratory ANALYTICAL REPORT

Monday, May 13, 2024

Mr. Kama Kobayashi Lehua Environmental Inc. P.O. Box 1018

Kamuela HI 96743

Phone Number: (808)494-0365

Facsimile:

Email: lehuaenvironmental@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 Kobayashi Lehua Environmental Inc.

P.O. Box 1018

Facsimile:

Phone Number: (808)494-0365

Email:

Kamuela HI 96743

lehuaenvironmental@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 Your Sample ID / Description	by FAAS Results	Units	Date 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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Semp the Lian

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

MRL = Method Reporting Limit.

Jennifer Hsu Liao Laboratory Manager

	☐ New Client?		Revision 3	Issued Appl 2018			M-400	
HAWAII	Report To*	:	Kama Kobaya	shi	_ Invoice To*	:Kar	nalana Kobayashi	
LABORATORY	Company	:	Lehua Environmen	tal Inc.	Company	: Lehua	Environmental Inc.	
	Address*	:	PO BOX 101	8	Address*	1	PO BOX 1018	
		Kamuela, Hawaii 96743			_	Kamuela, Hawaii 96743		
3615 Harding Avenue, Suite 30	Phone / Cell No.*	<u> </u>	808-494-036		Phone / Cell No.*	1,		
Honolulu, HI 96816 Ph: 808-735-0422 - Fax: 808-73	Report results to	<u></u>	K. Kobayash	i	Purchase Order No.	·		
https://analyzehawaii.com	via email or fax	: nicoleg@le	ehuaenv.com		Email Invoice To	: lehuaenv	ironmental@gmail.com	
leed Results By*:		lehuaenvir	onmental@gmail.com					
5 Working Days (WD)								
4 WD ☑ 3 WD	Client Project No.:	5	Site/Project Name:			R - W	Sampled By & Certif. #:	
2 WD			,	CSO Deco	mmissioning		Nicole Garaganza-Tengar	
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4 hours or less	Do Not Analyze Bla	ank Until Eurt	har Nation		+ stop / SAMPLE + stop / LAYER		202404955	
1-2 hours Sample		Date Sam		Sample Area		Method		
ID Sar	nple Description*	(mm/dd/		/ Air Volume	Analysis Requested*	Reference	Lab Sample(s) No.:	
C	SO 050124 L1	5/1/202	24 Cassette	820 L	Lead Air		202434533	
C	SO 050124 L2	5/1/202	24 Cassette	820 L	Lead Air		202434534	
C	SO 050124 L3	5/1/202	24 Cassette	820 L	Lead Air	V-	202434535	
C	SO 050124 L4	5/1/202	24 Cassette	820 L	Lead Air		202434536	
CSC	0 050124 BLANK	5/1/202	24 Cassette	BLANK	BLANK		202434537	
С	SO 050224 L1	5/2/202	24 Cassette	800 L	Lead Air	3	202434538	
С	SO 050224 L2	5/2/202	24 Cassette	800 L	Lead Air		20243453	
С	SO 050224 L3	5/2/202	24 Cassette	800 L	Lead Air		20243454	
С	SO 050224 L4	5/2/202	24 Cassette	800 L	Lead Air		20243454	
CSC	050224 BLANK	5/2/202	24 Cassette	BLANK	BLANK	/	20243454	
С	SO 050324 L1	5/3/202	24 Cassette	550 L	Lead Air		20243454	
С	SO 050324 L2	5/3/202	24 Cassette	550 L	Lead Air		20243454	
С	SO 050324 L3	5/3/202	24 Cassette	550 L	Lead Air	100	20243454	
С	SO 050324 L4	5/3/202	24 Cassette	550 L	Lead Air	* 1	20243454	
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		☐ New Client?			Revision 3 -	Issued Ap	al 2018				M-400
HAWAII	Le Commonweal	Report To*	:		Kama Kobayas	hi			Invoice To*	: Ka	malana Kobayashi
LABORATO		Company	;	Leh	nua Environment	al Inc.			Company	: Lehu	a Environmental Inc.
	~	Address*	;		PO BOX 1018	3			Address*	:	PO BOX 1018
				Ka	muela, Hawaii 9	6743				Kam	nuela, Hawaii 96743
		Phone / Cell No.*	:		808-494-0365	5			Phone / Cell No.*	:	
3615 Harding Avenue, Suite Honolulu, HI 96816	308	Report results to	<u>:</u>		K. Kobayashi				Purchase Order No.	:	
Ph: 808-735-0422 - Fax: 808 https://analyzehawaii.com	-735-0047	via email or fax	:nicoleg@l	lehuaeı	nv.com				Email Invoice To	: <u>lehuaen</u> v	vironmental@gmail.com
Need Results By*:	_	_	<u>lehuaenvi</u>	ronmer	ntal@gmail.com]			
5 Working Days (WD) 4 WD 3 WD 2 WD	Client	Project No.:		Site/Project Name: CSO Decomr				nmi	ssioning		Sampled By & Certif. # : Nicole Garaganza-Tengan
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Hawaii Analytical Laboratory ANALYTICAL REPORT

Thursday, May 23, 2024

Mr. Kama Kobayashi Lehua Environmental Inc. P.O. Box 1018

Kamuela HI 96743

Phone Number:

(808)494-0365

Facsimile:

Email: 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.	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 Kobayashi Lehua Environmental Inc.

P.O. Box 1018

Phone Number: (808)494-0365

Facsimile:

Kamuela HI 96743 Email: 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.	Your Sample Description	NIOSH Method: 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					

Mr. Kama Kobayashi
Lehua Environmental Inc.

Phone Number: (808)494-0365

P.O. Box 1018 Facsimile:

Kamuela HI 96743 Email: lehuaenvironmental@gmail.com

Lab Job No: 202405274 **Date Submitted:** 5/20/2024

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

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MRL = Method Reporting Limit.

Eva Skogsberg

Laboratory Supervisor

	>:°		☐ New Client?		No well-	The Maria			M-400
	HAWAII ANALYTICAL		Report To*	:	Kama Kobaya	shi	Invoice To*	: Kar	nalana Kobayashi
	LABORATORY,	LLC	Company	: Lel	hua Environmen	tal Inc.	Company	: Lehua	a Environmental Inc.
	, T.	,	Address*	1	PO BOX 101	8	Address*		PO BOX 1018
				Ka	amuela, Hawaii 9	96743		Kam	uela, Hawaii 96743
			Phone / Cell No.*		808-494-036	5	Phone / Cell No.*	:	
3615 Harding Honolulu, HI	g Avenue, Suite 308 96816	3	Report results to		K. Kobayash	İ	Purchase Order No.	1	
Ph: 808-735- https://analyz	-0422 - Fax: 808-73 zehawaii.com	5-0047	via email or fax	:calvin@lehuaen	v.com		Email Invoice To	: lehuaenv	ironmental@gmail.com
Need Resu	ults By*:			lehuaenvironmei		1	-	. <u>Ionaconv</u>	moninomal@gmail.com
5 Workin	ng Days (WD)								
4 WD		Client F	Project No.:	Site/Pr	oject Name:				Sampled By & Certif. # :
✓ 3 WD ☐ 2 WD		*	o to province de la compressión de la compressi	\$1000 to 1000		CSO Decomission	ing 5/13/24 - 5/16/24		Calvin Arca
24 hours	5	Specia	I Instructions:					Verbal results?	Lab Report No.:
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Sample ID		nple De	scription*	Date Sampled* (mm/dd/yy)	Collection Medium	Sample Area / Air Volume	Analysis Requested*	Method Reference	Lab Sample(s) No.:
1	С	SO 5/1:	3/24 L1	5/13/2024	cassette	660 L	Lead Air		202436179
2	С	SO 5/1:	3/24 L2	5/13/2024	cassette	660 L	Lead Air		202436180
3	С	SO 5/1:	3/24 L3	5/13/2024	cassette	660 L	Lead Air		202436181
4	С	SO 5/1:	3/24 L4	5/13/2024	cassette	660 L	Lead Air		202436182
5	CS	O 5/13/	24 Blank	5/13/2024	cassette	Blank	Blank		202436183
6	С	SO 5/14	4/24 L1	5/14/2024	cassette	600 L	Lead Air		202436184
7	С	SO 5/14	4/24 L2	5/14/2024	cassette	600 L	Lead Air		202436185
8	С	SO 5/14	1/24 L3	5/14/2024	cassette	600 L	Lead Air		202436186
9	С	SO 5/14	1/24 L4	5/14/2024	cassette	600 L	Lead Air	2:	202436187
10	CS	0 5/14/2	24 Blank	5/14/2024	cassette	Blank	Blank		202436188
11	C	SO 5/15	5/24 L1	5/15/2024	cassette	720 L	Lead Air		202436189
12	C	SO 5/15	5/24 L2	5/15/2024	cassette	720 L	Lead Air		202436190
13	C	SO 5/15	5/24 L3	5/15/2024	cassette	720 L	Lead Air		202436191
14	C	SO 5/15	5/24 L4	5/15/2024	cassette	720 L	Lead Air		202436192
15	CSC	O 5/15/2	24 Blank	5/15/2024	cassette	Blank	Blank		202436193

		☐ New Client?		on a ho	BILLING THE	_		Wi-400
HAWAII	TICAL	Report To*	:	Kama Kobayas	shi	Invoice To*	: Kan	nalana Kobayashi
	RATORY, LLC	Company	Leh	ua Environmen	tal Inc.	Company		Environmental Inc.
	~~	Address*	<u>:</u>	PO BOX 1018	3	Address*	:	PO BOX 1018
			Ka	muela, Hawaii 9	96743	_	Kamı	uela, Hawaii 96743
3615 Harding Avenue, S	suite 308	Phone / Cell No.*	<u> </u>	808-494-0365		Phone / Cell No.*	!	
Honolulu, HI 96816 Ph: 808-735-0422 - Fax:		Report results to	i	K. Kobayashi		Purchase Order No.	:	
https://analyzehawaii.co		via email or fax	calvin@lehuaenv	.com		Email Invoice To	<u>lehuaenvi</u>	ronmental@gmail.com
Need Results By*:			lehuaenvironmen	tal@gmail.com				
5 Working Days (WI								
☑ 3 WD ☐ 2 WD	Client	Project No.:	Site/Pro	oject Name:	CSO Decomission	ing 5/13/24 - 5/16/24		Sampled By & Certif. # : Calvin Arca
24 hours 6 hours or less	Specia	I Instructions:	•			PLM POSITIVE STOP?	Verbal results?	Lab Report No.:
4 hours or less		Do Not Analyze Bla	nk Until Further No	tice		+ stop / SAMPLE + stop / LAYER		202405274
Sample ID	Sample De	escription*	Date Sampled* (mm/dd/yy)	Collection Medium	Sample Area / Air Volume	Analysis Requested*	Method Reference	Lab Sample(s) No.:
3	CSO 5/1	6/24 L1	5/16/2024	cassette	600 L	Lead Air		202436194
7	CSO 5/1	6/24 L2	5/16/2024	cassette	600 L	Lead Air		202436195
3	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/	/24 Blank	5/16/2024	cassette	Blank	Blank		202436198
Reli	nquished By	(Print and Sign)		Date/Time		Received By (Print and	Sign)	Date/Time
	Calvin	Arca		1/28/2024 12:0	00	Hernidas Sh	ut 05	-20-24A09:24 RCVD
*Sample description can If matrix is 'soil', please	50 St		150		n. Via HA	C via USPS v	ia drop box	ia FedEx
All samples submitted a *Required fields, failure	•	5			<u>awb#:</u> 173-	39175625		Page: of



Hawaii Analytical Laboratory ANALYTICAL REPORT

Friday, May 31, 2024

Mr. Kama Kobayashi Lehua Environmental Inc.

P.O. Box 1018 Kamuela HI 96743 **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

	Air - Lead										
Sample No.	NIOSH Method: 7082m LEAD by FA	AS 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							

Mr. Kama Kobayashi Lehua Environmental Inc.

P.O. Box 1018

Phone Number: (808)494-0365

Facsimile:

Kamuela HI 96743 Email: lehuaenvironmental@gmail.com

Lab Job No: 202405578 **Date Submitted:** 5/28/2024

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

	Air - Lead										
	NIOSH Method: 7082m LEAD by FAAS			Date							
Sample No.	Your Sample ID / Description	Results	Units	Analyzed							
202437673 Comments	CSO 5/22/24 L2	< 6.4	ug/m3	5/29/2024							
202437674 Comments	CSO 5/22/24 L3	< 6.4	ug/m3	5/29/2024							
202437675 Comments	CSO 5/22/24 L4	< 6.4	ug/m3	5/29/2024							
202437677 Comments	CSO 5/23/24 L1	< 6	ug/m3	5/29/2024							
202437678 Comments	CSO 5/23/24 L2	< 6	ug/m3	5/29/2024							
202437679 Comments	CSO 5/23/24 L3	< 6	ug/m3	5/29/2024							
202437680 Comments	CSO 5/23/24 L4	< 6	ug/m3	5/29/2024							
202437682 Comments	CSO 5/24/24 L1	< 8.3	ug/m3	5/29/2024							
202437683 Comments	CSO 5/24/24 L2	< 8.3	ug/m3	5/29/2024							
202437684 Comments	CSO 5/24/24 L3	< 8.3	ug/m3	5/29/2024							
202437685 Comments	CSO 5/24/24 L4	< 8.3	ug/m3	5/29/2024							

Mr. Kama Kobayashi

Lehua Environmental Inc. P.O. Box 1018

Kamuela HI 96743 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.

Phone Number:

Facsimile:

(808)494-0365

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 Antin

Quality Control Manager

Anne Kuting

	> **		☐ New Client?			Kewaaaa 3 -	Issued April 2010			M-400	
10 4 750	HAWAII ANALYTICAL		Report To*	<u></u>		Kama Kobaya	shi	Invoice To*	:Ka	malana Kobayashi	
	LABORATORY	, LLC	Company	Lehua Environmental Inc.				Company	: Lehua Environmental Inc.		
	, ~, ~,	~	Address*	1		PO BOX 101	8	Address*	:	PO BOX 1018	
					Ka	amuela, Hawaii s	96743		Kam	nuela, Hawaii 96743	
			Phone / Cell No.*	<u>. </u>		808-494-036	5	Phone / Cell No.*	:		
Honolulu, HI	g Avenue, Suite 30 96816		Report results to	<u>:</u>		K. Kobayash	i	_ Purchase Order No	. 1		
	-0422 - Fax: 808-73 zehawaii.com	35-0047	. do amall an face	. aaluia Ole				Frank lauria a Ta	Kara Januar	1.10	
Need Res	n makuda makin ilayan kanasan sa kasak	1	via email or fax	calvin@le		<u>v.com</u> ntal@gmail.com		_	: <u>lenuaen</u>	vironmental@gmail.com	
2000	ng Days (WD)			ienuaenv	ironinei	ntai@gmaii.com					
☐ 4 WD	g = u/c (= /	Client	Project No.:		Site/Pr	oject Name:				Commission Dec 9 Contif #	
☑ 3 WD		Oliciti	Toject IVo		Olleri	oject Name.	CSO Decomission	ing 5/20/24 - 5/24/24		Sampled By & Certif. # : Calvin Arca	
2 WD	5	Cnasia	Lingtructions							2	
6 hours		Specia	I Instructions:					PLM POSITIVE STOP?		Lab Report No.:	
4 hours			Do Not Analyze Bla	nk Hatil Eu	rthor No	otion		+ stop / SAMPLE + stop / LAYER		202405578	
1-2 hour	I				Date Sampled* Collection Sample Area			T	Method	00010000	
Sample ID	Sample ID Sample Description*		(mm/do		Medium	/ Air Volume	Analysis Requested*	Reference	Lab Sample(s) No.:		
	CSO 5/20/24 L1		0/24 L1	5/20/2	024	cassette	780 L	Lead Air		202437662	
	CSO 5/20/24 L2		0/24 L2	5/20/2	024	cassette	780 L	Lead Air		202437663	
3	C	SO 5/20	0/24 L3	5/20/2024		cassette	780 L	Lead Air		202437664	
	C	SO 5/20	0/24 L4	5/20/2	024	cassette	780 L	Lead Air		202437665	
5	CS	O 5/20/	24 Blank	5/20/2	024	cassette	Blank	Blank		202437666	
i	C	SO 5/2	1/24 L1	5/21/2	024	cassette	960 L	Lead Air		202437667	
	C	SO 5/2	1/24 L2	5/21/20	024	cassette	960 L	Lead Air		202437668	
	CSO 5/21/24 L3 CSO 5/21/24 L4 CSO 5/21/24 Blank		1/24 L3	5/21/20	024	cassette	960 L	Lead Air		202437669	
			1/24 L4	5/21/20	024	cassette	960 L	Lead Air		202437670	
			5/21/20	024	cassette	Blank	Blank	*	202437671		
	C	SO 5/22	2/24 L1	5/22/20	024	cassette	780 L	Lead Air		202437672	
	С	SO 5/22	2/24 L2	5/22/20	024	cassette	780 L	Lead Air		202437673	
	С	SO 5/22	2/24 L3	5/22/20	024	cassette	780 L	Lead Air		202437674	
	С	SO 5/22	2/24 L4	5/22/20	024	cassette	780 L	Lead Air		202437675	
	CS	O 5/22/2	24 Blank	5/22/20	024	cassette	Blank	Blank		202437676	

	☐ New Client?		nectiviting a -	restrict white source			
HAWAII	Report To*	:	Kama Kobaya	shi	Invoice To*	: Ka	malana Kobayashi
LABORATORY, LLC	Company	Leh	ua Environmen	tal Inc.	Company	: Lehu	a Environmental Inc.
	Address*		PO BOX 101	8	Address*	:	PO BOX 1018
	ı	Ka	muela, Hawaii 🤉	96743		Kam	nuela, Hawaii 96743
	Phone / Cell No.*		808-494-036	5	Phone / Cell No.*	1	
3615 Harding Avenue, Suite 308 Honolulu, HI 96816	Report results to	:	K. Kobayash	i	Purchase Order No.	:	
Ph: 808-735-0422 - Fax: 808-735-0 https://analyzehawaii.com	via email or fax	:calvin@lehuaenv	.com		Email Invoice To	: lehuaeny	vironmental@gmail.com
Need Results By*:		lehuaenvironmer			-		
5 Working Days (WD)							
☐ 4 WD C	lient Project No.:	Site/Pro	oject Name:				Sampled By & Certif. #:
□ 2 WD				CSO Decomission	ing 5/20/24 - 5/24/24		Calvin Arca
24 hours Si	pecial Instructions:				PLM POSITIVE STOP?	Verbal results?	Lab Report No.:
6 hours or less 4 hours or less					+ stop / SAMPLE		
1-2 hours	nk Until Further No			+ stop / LAYER		202405578	
Sample ID Samp	le Description*	Date Sampled* (mm/dd/yy)	Collection Medium	Sample Area / Air Volume	Analysis Requested*	Method Reference	Lab Sample(s) No.:
CSC	O 5/23/24 L1	5/23/2024	cassette	840 L	Lead Air		202437677
CSC	CSO 5/23/24 L2		cassette	840 L	Lead Air		202437678
CSG	O 5/23/24 L3	5/23/2024	cassette	840 L	Lead Air		202437679
CSC	O 5/23/24 L4	5/23/2024	cassette	840 L	Lead Air		202437680
CSO	5/23/24 Blank	5/23/2024	cassette	Blank	Blank		202437681
CSC) 5/24/24 L1	5/24/2024	cassette	600 L	Lead Air		202437682
CSC) 5/24/24 L2	5/24/2024	cassette	600 L	Lead Air		202437683
CSC) 5/24/24 L3	5/24/2024	cassette	600 L	Lead Air		202437684
CSC) 5/24/24 L4	5/24/2024	cassette	600 L	Lead Air		202437685
CSO	5/24/24 Blank	5/24/2024	cassette	Blank	Blank	ř	202437686
Relinquished	By (Print and Sign)		Date/Time		Received By (Print and	Sign)	Date/Time
Ca	alvin Arca		1/28/2024 12:0	00	Savannah Newman		5/28/24 1:00pm
*Sample description can be paint of	chips, concrete, specific samp	le collection location,	etc		/'w		
If matrix is 'soil', please specify if i All samples submitted are subject				n. Swip#: 173	C □ via USPS □ vi ふらいならしり	a drop box	via FedEx
*Required fields, failure to comple		5		амын. 173-			Page: of



Hawaii Analytical Laboratory ANALYTICAL REPORT

Tuesday, June 11, 2024

Mr. Kama Kobayashi Lehua Environmental Inc. P.O. Box 1018

Kamuela HI 96743

Phone Number: (808)494-0365

Facsimile:

Email: 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.	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 Kobayashi Lehua Environmental Inc.

P.O. Box 1018

Phone Number: (808)494-0365

Facsimile:

Kamuela HI 96743 Email: lehuaenvironmental@gmail.com

Lab Job No: 202405887 Date Submitted: 6/6/2024

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

Air - Lead									
Sample No.	Your Sample Description	NIOSH Method: 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				

Mr. Kama Kobayashi
Lehua Environmental Inc.

Phone Number: (808)494-0365

P.O. Box 1018 Facsimile:

Kamuela HI 96743 Email: 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 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.

Eva Skogsberg

Laboratory Supervisor

	> • •		☐ New Client?		Fel Woodle	lasan kapan sa			W-400	
	HAWAII ANALYTICAL		Report To*		Kama Kobayas	shi	Invoice To*	: Kar	malana Kobayashi	
	LABORATORY	LLC	Company	Lel	nua Environmen		Company		a Environmental Inc.	
	, Y	~	Address*	:	PO BOX 101		- Address*	•		
			0 0.000 0.000 0.000	Ka	amuela, Hawaii 9	96743	-		uela, Hawaii 96743	
			Phone / Cell No.*	:	808-494-036	5	Phone / Cell No.*	:		
3615 Harding Honolulu, HI 9	Avenue, Suite 30	8	Report results to		K. Kobayash	i	Purchase Order No.	:		
	0422 - Fax: 808-73	5-0047					11			
A		1	via email or fax	:calvin@lehuaen			Email Invoice To	: <u>lehuaenv</u>	ironmental@gmail.com	
Need Resu				lehuaenvironme	ntal@gmail.com					
5 Working	g Days (WD)	01: 11		lou in	·				T	
✓ 3 WD		Client	Project No.:	Site/Pr	oject Name:	000 D	5/00/04 5/00/04		Sampled By & Certif. #:	
2 WD						CSO Decomission	ing 5/28/24 - 5/30/24		Calvin Arca	
24 hours		Specia	I Instructions:					Verbal results?	Lab Report No.:	
4 hours o	or less						+ stop / SAMPLE + stop / LAYER		202405887	
1-2 hours	i		Do Not Analyze Bla				+ stop / LATER			
Sample ID	Sar	nple De	scription*	Date Sampled* (mm/dd/yy)	Collection Medium	Sample Area / Air Volume	Analysis Requested*	Method Reference	Lab Sample(s) No.:	
1	C	SO 5/2	8/24 L1	5/28/2024	cassette	600 L	Lead Air		202439776	
2		SO 5/2	8/24 L2	5/28/2024	cassette	600 L	Lead Air		202439777	
3	C	SO 5/2	8/24 L3	5/28/2024	cassette	600 L	Lead Air		202439778	
4	C	CSO 5/28/24 L4		5/28/2024	cassette	600 L	Lead Air		202439779	
5	CS	O 5/28/	24 Blank	5/28/2024	cassette	Blank	Blank		202439780	
3	C	SO 5/2	9/24 L1	5/29/2024	cassette	720 L	Lead Air		202439781	
7			9/24 L2	5/29/2024	cassette	720 L	Lead Air		202439782	
3			9/24 L3	5/29/2024	cassette	720 L	Lead Air		202439783	
)	C	SO 5/2	9/24 L4	5/29/2024	cassette	720 L	Lead Air		202439784	
0	CS	O 5/29/	24 Blank	5/29/2024	cassette	Blank	Blank		202439785	
1	C	SO 5/30	0/24 L1	5/30/2024	cassette	840 L	Lead Air		202439786	
	C	SO 5/30	0/24 L2	5/30/2024	cassette	840 I	Lead Air		202139787	

	> :•		☐ New Client?			November 2	issain fila	H-20118	_		M-400		
7.	HAWAII		Report To*	:		Kama Kobayas	hi		Invoice To*	Invoice To* : Kamalana			
	LABORATORY	LLC	Company	;	Lehua Environmental Inc.				Company	•			
		~	Address*	PO BOX 1018					Address*	:	PO BOX 1018		
					Ka	amuela, Hawaii 9	6743		.]	Kamı	Kamuela, Hawaii 96743		
3615 Hardin	g Avenue, Suite 30	Q	Phone / Cell No.*	<u></u>	808-494-0365				Phone / Cell No.*	:			
Honolulu, HI	96816		Report results to	<u>:</u>		K. Kobayashi			Purchase Order No.	:			
	-0422 - Fax: 808-73 zehawaii.com	35-0047	via email or fax	calvin@l	ehuaenv	v.com			Email Invoice To	: <u>lehuaenv</u>	ironmental@gmail.com		
Need Resu	ults By*:			lehuaenv	/ironmer	ntal@gmail.com							
5 Workir	ng Days (WD)	01:	IN		lou (D								
✓ 3 WD		Client	Project No.:								Sampled By & Certif. #:		
2 WD	-						CSO Dec	omissionii			Calvin Arca		
6 hours		Special	I Instructions:							Verbal results?	Lab Report No.:		
4 hours	or less		Do Not Analyze Blank Until Further Notice					+ stop / SAMPLE + stop / LAYER		202405887			
Sample ID	Sar	nple De	scription*	Date Sar (mm/de		Collection Medium	Sampl / Air V	ALL CONTROL CONTROL CONTROL	Analysis Requested*	Method Reference	Lab Sample(s) No.:		
3	C	SO 5/30	0/24 L3	5/30/2	024	cassette	84	0 L	Lead Air	•	202439788		
4			0/24 L4	5/30/2	024	cassette	84) L	Lead Air		202439789		
5			5/30/2	024	cassette	Bla	ink	Blank		202439790			
Relinquished By (Print and Sign)					Date/Time			Received By (Print and	Sign)	. Date/Time			
		Calvin /				1/28/2024 12:0	0		Haley Leavitt	6 06-	06-24P02:21 RCVD		
If matrix is 'so	oil', please specify	if it is a l	concrete, specific samp FOREIGN SOIL SAMPLE waii Analytical Laborator	(outside Hav	waii) in th	e comment section		via HAC	Uvia USPS	ia drop box	ia FedEx		
			se fields may result in a					<u>awu#.</u> 1/3			Page: of		

Attachment II: Daily Field Reports

Lehua	Environmental	Inc.

Material to be disturbed:

DAILY ACTIVITY LOG

Project: Calted	ch Submillimeter Observatory Decommissioning	Page: _ Date: _	1	of _	1						
	Scheduled Activity										
Building(s):	Caltech Submillimeter Observatory	Floor(s):	N/A								
Room(s):	N/A		-								

LBP/LCP debris

Time	Description						
10:00 am	Arrive onsite, calibrate and setup pumps around perimeter of work area. Northwest Demo (NWD) to start the demolition of the observatory utilizing an excavator with sheer attachment.						
11:30 am	NWD starts demolition of the exterior metal surfaces of the observatory. Unitek on standby to conduct paint chip cleanup during and after the lead paint disturbance activities.						
2:00 pm	NWD continues the demolition of the observatory metal surfaces. Visible debris is controlled to work area. Demoed metal building materials are placed inside the middle of the observatory floor.						
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 Env. (LEI) conducts a visual inspection of the site. LEI approves the cleanup and no visible paint chips remain on the ground surfaces of the work area. Pumps are turned off and calibrated.						
LEI Staff: K	K. Kobayashi D	ate: 04/29/24					

Page	1	of	1

Lehua Environmental Consultants, LLC

Air Monitoring Log

Project No.:	Date: 4/29/2024							
Client: Calt			Sampled By: K. Kobayashi					
Project Site: Calt	ech Submi	llimeter Ob	servatory D	Decommissio	oning			
Sample ID	Type*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
042924-C-L1	OWA	10:00	16:00	2	2	2	360	720 L
Sample Location:	Near storag	ge bldg.						
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)
042924-C-L2	OWA	10:00	16:00	2	2	2	360	720 L
Sample Location:	Sample Location: Entrance to job site. South side of driveway							
Analyte: (Select one)			Asbestos 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)
042924-C-L3	OWA	10:00	16:00	2	2	2	360	720 L
Sample Location:	Southwest	corner of jo	b site.					
Analyte (Select one)	•	Asbestos 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)
042924-C-L4	OWA	10:00	16:00	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)
042924-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

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DAILY ACTIVITY LOG

		Page:	1	of	1	
Project:	Caltech Submillimeter Observatory Decommissioning	Date:	04/30/2	24		

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

	Arrive onsite, calibrate and setup pumps around perimeter of work area. N						
	continue demolition of the observatory utilizing the excavator with sheer at						
	NWD continues demo work. Unitek on standby to conduct paint chip cleanup during and after the lead paint disturbance activities.						
	NWD excavator leaks hydraulic fluid after a hose bursts on the machine. All haul out trucks called off fo the day. Unitek, NWD and GBI clean up the leak and place absorbent litter and pads on ground in area the leak.						
1:00 pm	Continued cleanup of hydraulic leak area continues. Pumps turned off and	d 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 a observed.	area and no visible paint chips					
LEI Staff: K.	Kobayashi	Date: 04/30/24					

Page	1	of	1

Lehua Environmental Consultants, LLC

Air Monitoring Log

Project No.:			Date: 4/30/2024					
Client: Calt		Sampled By: K. Kobayashi						
Project Site: Calt	ech Submi	llimeter Ob	servatory D	Decommissio	ning			
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	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-L2	OWA	7:00	13:00	2	2	2	360	720 L
Sample Location:	Sample Location: Entrance to job site. South 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)	•	Asbestos 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

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		Page:	1	of _	2
Project:	Caltech Submillimeter Observatory Decommissioning	Date:	05/01/2		

Scheduled Activity								
Building(s):	Caltech Submil	Itech Submillimeter Observatory Floor(s): N/A						
Room(s):	N/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 at paint chips under control and staying within the exterior shell. Water truc						
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: N	licole Garaganza-Tengan	Date: 05/01/24					

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Lehua Environmental Inc.

Air Monitoring Log

Project No.:		Date:			05/01/24			
Client:			S	ampled By:	Nicole Garaganza-Tengan			
Project Site: (Caltech 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 050124	L1 OWA	7:55 am	2:45 pm	2	2	2	410	820 L
•	Sample Location: Near large storage shed							
Analy (select o			Asbe	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	1:							
South side of dr	iveway entrand	ce to job site						
Analyte:			Asbestos • Lead Other:					
-			() Asbe	stos 💽	Lead C) Other:		
-		Start Time	Stop Time	Initial Flow (LPM)	Lead C Final Flow (LPM)	Other: Avg. Flor (LPM)	Total Time (min.)	Total Vol.
(select o	Type*	Start Time 7:55 am		Initial Flow	Final Flow	Avg. Flor		
Sample ID	Type* L3 OWA		Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	(min.)	(liters)
Sample ID CSO 050124 Sample Location	Type* L3 OWA 1: ner of job site		Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	(min.)	(liters)
Sample ID CSO 050124 Sample Location South-west corr Analy	Type* L3 OWA 1: ner of job site		Stop Time 2:45 pm	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	(min.)	(liters)
Sample ID CSO 050124 Sample Location South-west corr Analy (select of	Type* L3 OWA 1: ner of job site rte: me) Type*	7:55 am	Stop Time 2:45 pm Asbe	Initial Flow (LPM) 2 stos	Final Flow (LPM) 2 Lead Final Flow	Avg. Flor (LPM) 2 Other: Avg. Flor	(min.) 410 Total Time	(liters) 820 L Total Vol.
Sample ID CSO 050124 Sample Location South-west corr Analy (select of	Type* L3 OWA 1: ner of job site Type* L4 OWA 1:	7:55 am Start Time	Stop Time 2:45 pm Asbe Stop Time	Initial Flow (LPM) 2 stos Initial Flow (LPM)	Final Flow (LPM) 2 Lead Final Flow (LPM)	Avg. Flor (LPM) 2 Other: Avg. Flor (LPM)	(min.) 410 Total Time (min.)	(liters) 820 L Total Vol. (liters)

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

		Page:	1	of	2
Project:	Caltech Submillimeter Observatory Decommissioning	Date:	05/02/2	4	

		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	
8:00 am	Arrived on site. I calibrated 4 pumps for lead air monitoring and set up ar in the morning meeting, NWD will start with removing the 2 hydraulic pur shutter door opening. Unitek removed the plastic inside the shell coverin coming up to the summit today.	mps located on both sides of the
8:30 am	NWD began cutting away at the metal frame to further expose the hydral contained inside the shell. Once the pumps were exposed, they'll cut the ground, Unitek and Good Fellow (GBI) prepped area with plastic of wher wrapped.	e final shutter cables. On the
9:45 am	Bolts of the first pump were removed and NWD began removing the pum laid on the platform to protect area from any hydraulic fluid leaks. NWD t carefully lifted pump over to the staged area. Once placed, Unitek began plastic. Oil pads were placed underneath pump to soak up any fluid that	hen tied up pump for lifting and urapping pump with 2 layers of
10:15 am	The process was repeated again for second hydraulic pump. Both pump west side of the observatory on the concrete pad. Plastic laid beneath fo No leaks or spill occurred during the entire process. Unitek did a quick cl	r extra precaution of any leaks.
12:00 pm	NWD switched attachments to the grabber on the high reach machine. F pulling down all the wood floors and insulation within the framing. Water demo for dust control.	
12:30 pm	Hydraulic hose on high reach began to leak fluid, and work stopped. Lea 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 fo	or dust control.
LEI Staff: N	licole Garaganza-Tengan	Date: 05/02/24

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DAILY ACTIVITY LOG

		Page:	2	of	2
Project:	Caltech Submillimeter Observatory Decommissioning	Date:	05/02/2	24	

		Scheduled Activi	ity
Building(s):	Caltech Submil	limeter Observatory	Floor(s): N/A
Room(s):	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: N	Nicole Garaganza-Tengan Date: 05/02/24

Page	1	of	1

Lehua Environmental Inc.

Air Monitoring Log

Project No.:				Date: 05/02/24				
Client:			S	ampled By:	Nicole Gara	aganza-Teng	jan	
Project Site: (Caltech 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 050224	L1 OWA	8:00 am	2:40 pm	2	2	2	400	800 L
Sample Location Near large stora								
Analy (select o			Asbe	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	1:							
South side of dr	iveway entrand	ce to job site	!					
Analyte: (select one)		Asbestos • Lead Other:						
-			() Asbe	stos 💽	Lead C) Other:		
-		Start Time	Asbe Stop Time	Initial Flow (LPM)	Lead C Final Flow (LPM)	Other: Avg. Flor (LPM)	Total Time (min.)	Total Vol.
(select o	Type*	Start Time 8:00 am		Initial Flow	Final Flow	Avg. Flor		
Sample ID	Type* L3 OWA		Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	(min.)	(liters)
Sample ID CSO 050224 Sample Location	Type* L3 OWA 1: ner of job site		Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	(min.)	(liters)
Sample ID CSO 050224 Sample Location South-west corr Analy	Type* L3 OWA 1: ner of job site		Stop Time 2:40 pm	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	(min.)	(liters)
Sample ID CSO 050224 Sample Location South-west corr Analy (select of	Type* L3 OWA 1: ner of job site rte: me) Type*	8:00 am	Stop Time 2:40 pm Asbe	Initial Flow (LPM) 2 stos	Final Flow (LPM) 2 Lead Final Flow	Avg. Flor (LPM) 2 Other: Avg. Flor	(min.) 400 Total Time	(liters) 800 L Total Vol.
Sample ID CSO 050224 Sample Location South-west corr Analy (select of	Type* L3 OWA 1: ner of job site Type* L4 OWA 1:	8:00 am Start Time	Stop Time 2:40 pm Asbe Stop Time	Initial Flow (LPM) 2 stos Initial Flow (LPM)	Final Flow (LPM) 2 Lead Final Flow (LPM)	Avg. Flor (LPM) 2 Other: Avg. Flor (LPM)	(min.) 400 Total Time (min.)	(liters) 800 L Total Vol. (liters)

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

		Page:	1	of	1
Project:	Caltech Submillimeter Observatory Decommissioning	Date:	05/03/2	4	

	Scheduled Activity				
Building(s):	Caltech Submil	Caltech Submillimeter 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 between trucks. NWD will continue with demo to accumulate enough debris for the last 2 trucks.			
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: N	licole Garaganza-Tengan	Date: 05/03/24		

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Project No.:				Date:	05/03/24			
Client:			S	ampled By:	Nicole Garaganza-Tengan			
Project Site:	Caltech Submi	Ilimeter 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 OWA	7:50 am	12:25 pm ■	2	2	2	275	550 L
Sample Location Near large stor								
Anal	•		Asbe	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	2	275	550 L
Sample Location	n:							
South side of driveway entrance to job site								
	-							
Anal (select	yte:		Asbe	stos •	Lead C	Other:		
Anal	yte:	Start Time	Asbe Stop Time	stos Initial Flow (LPM)	Lead C Final Flow (LPM)	Other: Avg. Flor (LPM)	Total Time (min.)	Total Vol.
Anal (select	yte: one) Type*	Start Time 7:50 am		Initial Flow (LPM)	Final Flow	Avg. Flor		
Anal (select	yte: one) Type* L3 OWA on:		Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	(min.)	(liters)
Sample ID CSO 050324 Sample Location	Type* L3 OWA on: ner of job site		Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	(min.)	(liters)
Sample ID CSO 050324 Sample Location South-west cortain	Type* L3 OWA on: ner of job site		Stop Time 12:25 pm	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	(min.)	(liters)
Anal (select Sample ID) CSO 050324 Sample Location South-west cortain (select Select	Type* L3 OWA on: ener of job site yte: one) Type*	7:50 am	Stop Time 12:25 pm Asbe	Initial Flow (LPM) 2 stos Initial Flow (LPM)	Final Flow (LPM) 2 Lead Final Flow	Avg. Flor (LPM) 2 Other: Avg. Flor	(min.) 275 Total Time	(liters) 550 L Total Vol.
Anal (select Sample ID CSO 050324 Sample Location South-west cor Anal (select	Type* L3 OWA on: ener of job site yte: one) Type* L4 OWA	7:50 am Start Time	Stop Time 12:25 pm Asbe Stop Time	Initial Flow (LPM) 2 stos Initial Flow (LPM)	Final Flow (LPM) 2 Lead Final Flow (LPM)	Avg. Flor (LPM) 2 Other: Avg. Flor (LPM)	(min.) 275 Total Time (min.)	(liters) 550 L Total Vol. (liters)
Sample ID CSO 050324 Sample Location South-west cort Analytics (select) Sample ID CSO 050324	Type* L3 OWA on: ener of job site yte: one) Type* L4 OWA on:	7:50 am Start Time	Stop Time 12:25 pm Asbe Stop Time	Initial Flow (LPM) 2 stos Initial Flow (LPM)	Final Flow (LPM) 2 Lead Final Flow (LPM)	Avg. Flor (LPM) 2 Other: Avg. Flor (LPM)	(min.) 275 Total Time (min.)	(liters) 550 L Total Vol. (liters)

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

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	Page:	1	of	1
Project: Mauna Kea CSO decomissioning	Date:	05/06/2	24	

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

Time	Description			
7:30 am	Calvin arrive at Hale Pohaku to meet other parties involved with Decomr Unitek (Jeffy) and Northwest Demo. Discussed plans and forecast for wo			
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 scraping 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 was present on ground floor. Tape and escavator bucket were placed or wouldn't move.			
12:30 pm	Leave work area. Work area left clean and free of visible concerns or de	bris		
LEI Staff:	Calvin Arca	Date: 05/06/24		

		Page:	1	of	1
Project:	Mauna Kea CSO decomissioning	Date:	05/13/2	24	

Scheduled Activity				
Building(s):	Caltech Submil	limeter Observatory	Floor(s):	N/A
Room(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: C	Calvin Arca Date: 05/13/24			

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Project No.:			Date: 05/13/24					
Client:			S	ampled By:	Calvin Arca	1		
Project Site: CS	O 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 5/13/24 L1	OWA	9:30 am	3:00 pm	2	2	2	330	660
Sample Location: At gate / road entrar	nce to observa	atory structure	e. Northeast c	of observatory.				
Analyte	; :		Asbe	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 5/13/24 L2	OWA	9:30 am	3:00 pm	2	2	2	330	660
Sample Location: In between the stora	ige sheds of t	he observator	y structure. N	lorthwest of ok	oservatory			
Analyte (select one)	:		Asbe	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 5/13/24 L3	OWA	9:30 am	3:00 pm	2	2	2	330	660
Sample Location: Southwest of observ	Sample Location: Southwest of observatory. Opposite side of the gate / road entrance. Along rope barrier.							
Analyte (select one)	:		Asbe	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 L4	OWA	9:30 am	3:00 pm	2	2	2	330	660
Sample Location: Southeast of observ	atory. Opposi	ite side of the	storage shed	s. Along rope	barrier.			
Analyte	:		Asbe	estos	Lead C	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

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Project:	Mauna Kea CSO decomissioning	Date:	05/14/2	4	

Scheduled Activity				
Building(s):	Caltech Submillimeter 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 observation before. Debris covered with plastic in center-dip of observatory was clear 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 o to weigh paint chips down and control dust.	bservatory. 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 pickin around the area.	
2:00 pm	Pumps and cassettes collected.	
LEI Staff: C	calvin Arca	Date: 05/14/24

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Project No.:			Date: 05/14/24					
Client:			S	ampled By:	Calvin Arca	ı		
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 5/14/24 L1	OWA	9:00 am	2:00 pm	2	2	2	300	600
Sample Location At gate / road enti		atory structure	∍. Northeast c	of observatory.				
Analy (select o			Asbe	stos 💿	Lead C	Other:		
Sample ID	Туре*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/14/24 L2	OWA	9:00 am	2:00 pm	2	2	2	300	600
Sample Location In between the sto		he observator	ry structure. N	Jorthwest of ok	oservatory			
Analy (select o			Asbe	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 L3	OWA	9:00 am	2:00 pm	2	2	2	300	600
Sample Location Southwest of obse		ite side of the	gate / road e	ntrance. Along	ı rope barrier.			
Analy (select o			Asbe	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 L4	OWA	9:00 am	2:00 pm	2	2	2	300	600
Sample Location Southeast of obse		ite side of the	storage shed	s. Along rope	barrier.			
Analy			Asbe	stos	Lead C	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

		Page:	1	of	1
Project:	Mauna Kea CSO decomissioning	Date:	05/15/2	4	

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	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 observatory structure. Afterwards, hydraulic crane focused collapsing 1 more side of the structure. Silver panels and white metal framing. Water truck sprayed water as needed. All available hands helped with picking up paint chips during the process.		
12:30 pm	Side of the observatory was finished demoing. Final cleanup performed to picked up paint chips and sweeped and moved debris into the center-dip		
2:00 pm	Area left clean and secure. Pumps and cassettes collected.		
LEI Staff: C	Calvin Arca	Date: 05/15/24	

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Project No.:			Date: 05/15/24					
Client:			S	ampled By:	Calvin Arca	1		
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 5/15/24 L1	OWA	8:00 am	2:00 pm	2	2	2	360	720
Sample Location At gate / road enti		atory structure	∍. Northeast c	of observatory.				
Analy (select o			Asbe	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 L2	OWA	8:00 am	2:00 pm	2	2	2	360	720
Sample Location In between the sto		he observator	ry structure. N	lorthwest of ok	oservatory			
Analy (select o			Asbestos					
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 L3	OWA	8:00 am	2:00 pm	2	2	2	360	720
Sample Location Southwest of obse		ite side of the	gate / road e	ntrance. Along	ı rope barrier.			
Analy (select o			Asbe	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 L4	OWA	8:00 am	2:00 pm	2	2	2	360	720
Sample Location Southeast of obse		ite side of the	storage shed	ls. Along rope	barrier.			
Analy			Asbe	Asbestos • 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

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Project: Mauna Kea CSO decomissioning	Date:	05/16/2	4	

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.			

т.		
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 very foggy and windy. Waited for all project leaders to arrive and discuss decided that we would try loading 1 truck to see if debris would splatter under the control of the contr	s next course of action. It was
10:00 am	Started loading 1 dump truck at a time. All available hands spread out fa Trucks were loaded slowly and only with big debris at the top, not the findower wall of the structure was left in tact to shield the piled debris in the	e smaller debris at the bottom. A
12:30 pm	Trucks were loaded. Small debris in the center-dip wasn't touched ue to much as they could to pick up paint chips seen. Northwest continued del 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 material. Wind forecast for the night was low. Pumps and cassettes colle	
LEI Staff:	Calvin Arca	Date: 05/16/24

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Project No.:				Date:	05/16/24			
Client:			S	ampled By:	Calvin Arca	ı		
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 L1	OWA	8:00 am	1:00 pm	2	2	2	300	600
Sample Location At gate / road enti		atory structure	∍. Northeast c	of observatory.				
Analy (select o			Asbe	stos 💿	Lead C	Other:		
Sample ID	Туре*	Start Time	Stop Time	Initial Flow (LPM)	Final Flow (LPM)	Avg. Flor (LPM)	Total Time (min.)	Total Vol. (liters)
CSO 5/16/24 L2	OWA	8:00 am	1:00 pm	2	2	2	300	600
Sample Location In between the sto		he observator	ry structure. N	Jorthwest of ok	oservatory			
Analy (select o			Asbestos • 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 5/16/24 L3	OWA	8:00 am	1:00 pm	2	2	2	300	600
Sample Location Southwest of obse		ite side of the	gate / road e	ntrance. Along	ı rope barrier.			
Analy (select o			Asbe	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 L4	OWA	8:00 am	1:00 pm	2	2	2	300	600
Sample Location Southeast of obse		ite side of the	storage shed	s. Along rope	barrier.			
Analy			Asbe	stos	Lead C	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

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Project:	Mauna Kea CSO decomissioning	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			

т.		
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 No pumps or cassettes were setup around the area due to no demolition stockpiled debris in the center-dip of of the structure. Black fabric was play with heavy framing pieces to hold it down over the weekend.	Crews focused on securing
9:00 am	Work area left secure. Center-dip of observatory was completely covered	d with black fabric.
LEI Staff:	Calvin Arca	Date: 05/17/24

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Project:	Mauna Kea CSO decomissioning	Date:	Date: 05/20/24			

Scheduled Activity				
Building(s):	Caltech Submillimeter Observatory Floor(s): N/A			N/A
Room(s):	N/A	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 prepared for loading dump trucks with debris from center-dip of the structure. Debris in the center was covered and seemed secure over the weekend. Unitek staff laid out plastic for dump trucks to set bed on for loading of debris. Winds were low.Pumps and cassettes setup.			
10:30 am	Calvin hiked up Northeast to scout for paint chips supposedly seen last week thursday that caught wind and went far. None seen, only general trash such as footballs, slippers, and white plastic pieces not from CSO. Unitek remained at CSO to clean as dump trucks were loaded and pick up paint chips.			
1:30 pm	Northwest started demoing silver storage building to make room for collapsing ring of CSO. Drywall and insulation seen in building. All hands helped to clean and remove insulation and sweep debris as soon as possible. Water truck sprayed water to weigh down debris and limit travel. Pump 2 location adjusted.			
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. Multiple hands on site cleaned up entire area for debris and paint chips. Calvin went far to scout for debris that went outside of barrier area.			
4:30 pm	End of day. Pumps and cassettes collected. Area left clean.			
LEI Staff: C	Calvin Arca Date: 05/20/24			

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Project No.:				Date:	05/20/24			
Client:			S	ampled By:	Calvin Arca	1		
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 L1	OWA	10:00 am	4:30 pm	2	2	2	390	780
Sample Location: At gate / road entrance to observatory structure. Northeast of observatory.								
Analy			Asbe	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 5/20/24 L2	OWA	10:00 am	4:30 pm	2	2	2	390	780
Sample Location In between the sto		he observator	ry structure. N	lorthwest of ok	oservatory			
Analy (select o			Asbe	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 5/20/24 L3	OWA	10:00 am	4:30 pm	2	2	2	390	780
Sample Location Southwest of obse		ite side of the	gate / road e	ntrance. Along	ı rope barrier.			
Analy (select o			Asbe	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 5/20/24 L4	OWA	10:00 am	4:30 pm	2	2	2	390	780
Sample Location Southeast of obse		ite side of the	storage shed	ls. Along rope	barrier.			
Analy			Asbe	estos	Lead C	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

		Page:	1	of	1
Project:	Mauna Kea CSO decomissioning	Date:	05/21/2	24	

Scheduled Activity				
Building(s):	Caltech Submillimeter 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 manipulating debris in center-dip of structure to make it easier for loading. No debris on the ground, not affected by overnight winds. Unitek setup vaccums and plastic for truck loading. Pumps and casettes setup around area.			
9:00 am	Dump trucks on site. Trucks were loaded with debris from CSO 1 by 1. Available hands assissted with debris cleanup during loading. Wind flow now coming from the northeast to the southwest of the structure. Had to pickup debris on 'downhill' side of the structure now. Occasional watering used to weigh debris down and reduce travel.			
10:00 am	3 trucks done loading. Northwest demolition started taking off exterior aluminum panels off of the last ring and began demoing the last of the interior drywalls. Watertruck used to keep dust down. All available hands worked on cleaning and picking up debris during the process.			
11:30 am	Northwest demolition began focusing on cutting more framing on the rings to prepare for ring-takedown.			
1:30 pm	Observatory ring dropped. All available hands assissted with cleaning debris. Northwest ddemolition focused on cutting the ring into smaller pieces and placing them onto center-dip of structure. Plastic placed over section with small debris. Big pieces remained in the center.			
3:35 pm	Work day done. Area left clean. Pumps and cassettes collected. Left job site.			
LEI Staff: C	Calvin Arca Date: 05/21/24			

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Project No.:				Date:	05/21/24	05/21/24		
Client:			S	ampled By:	Calvin Arca	l		
Project Site:	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 5/21/24 L1	OWA	7:30 am	3:30 pm	2	2	2	480	960
Sample Location: At gate / road entrance to observatory structure. Northeast of observatory.								
Analy (select o			Asbe	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 5/21/24 L2	OWA	7:30 am	3:30 pm	2	2	2	480	960
Sample Location Next to water-pum		bservatory str	ucture. North	west of observ	atory			
Analy (select o			Asbe	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 5/21/24 L3	OWA	7:30 am	3:30 pm	2	2	2	480	960
Sample Location Southwest of obse		ite side of the	gate / road e	ntrance. Along	rope barrier.			
Analy (select o			Asbe	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 5/21/24 L4	OWA	7:30 am	3:30 pm	2	2	2	480	960
Sample Location Southeast of obse		te side of the	storage shed	s. Along rope	barrier.			
Analy			Asbe	estos	Lead C	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

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Project:	Mauna Kea CSO decomissioning	Date:	05/22/2	24	

Scheduled Activity					
Building(s):	Caltech Submillimeter 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 debris in center-dip of structure to make it easier for loading. No debris on the ground, not affected by overnight winds. Unitek setup vaccums and plastic for truck loading. Pumps and casettes setup around area.			
8:00 am	Crane cutter started cutting material. Water truck started watering structure to keep dust down.			
8:50 am	1st truck started loading. Water truck used water occasionally to keep dust down. Unitek setup plastic on ground to keep ground clean. Staff standby to clean as needed. 4 Trucks finished loading at 10:30 am.			
11:00 am	Standby. Watertruck stuck in different location.			
12:30 pm	Watertruck returned. Northwest crew focused on knocking down 2nd ring structure of the observatory. Ring was brought down at 1:00 pm. Crew then focused on taking apart ring and placing pieces on center dip of structure.			
2:00 pm	Final cleaning of area. All debris swept up and placed in center dip of structure. Wind forecast low for the night. Work area left clean.			
LEI Staff: C	Calvin Arca Date: 05/22/24			

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Project No.:				Date:	05/22/24			
Client:			S	ampled By:	Calvin Arca	1		
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 5/22/24 L1	OWA	7:30 am	2:00 pm	2	2	2	390	780
Sample Location At gate / road ent		atory structure	e. Northeast c	of observatory.				
Analy			Asbe	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 5/22/24 L2	OWA	7:30 am	2:00 pm	2	2	2	390	780
Sample Location Next to water-pun		bservatory str	ucture. North	west of observ	/atory			
Analy (select o			Asbe	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 5/22/24 L3	OWA	7:30 am	2:00 pm	2	2	2	390	780
Sample Location Southwest of obse		ite side of the	gate / road e	ntrance. Along	ı rope barrier.			
Analy (select o			Asbe	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 5/22/24 L4	OWA	7:30 am	2:00 pm	2	2	2	390	780
Sample Location Southeast of obse		ite side of the	storage shed	ls. Along rope	barrier.			
Analy			Asbe	estos	Lead C	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

		Page:	1	of	1
Project:	Mauna Kea CSO decomissioning	Date:	05/23/2	24	

Scheduled Activity						
Building(s):	Caltech Submil	limeter Observatory	Floor(s): N/A			
Room(s):	N/A	I/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 debris onto trucks. Pumps and Cassettes were setup around work area. First truck was loaded at 8:50 am. Staff on standby cleaned and bicked up debris as needed. Watertruck sprayed water occasionally to keep dust down.				
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 so 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 big pieces within center-dip of the structure. Northwest manipulated debris in center of the structure so big debris covered smaller debris.				
3:00 pm	Cutting of debris in center-dip done. All available hands cleaned up visible Scouted outside work area for paint chips. Debris in center-dip was secularly and casettes collected. Work site clean.				
LEI Staff: C	alvin Arca	Date: 05/23/24			

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Project No.:				Date:	05/23/24			
Client:			S	ampled By:	Calvin Arca	ı		
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 5/23/24 L1	OWA	8:00 am	3:00 pm	2	2	2	420	840
Sample Location At gate / road ent		atory structure	∍. Northeast c	of observatory.				
Analy			Asbe	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 Next to water-pun		bservatory str	ucture. North	west of observ	/atory			
Analy (select o			Asbe	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 L3	OWA	8:00 am	3:00 pm	2	2	2	420	840
Sample Location Southwest of obse		ite side of the	gate / road e	ntrance. Along	ı rope barrier.			
Analy (select o			Asbe	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 L4	OWA	8:00 am	3:00 pm	2	2	2	420	840
Sample Location Southeast of obse		ite side of the	storage shed	ls. Along rope	barrier.			
Analy			Asbe	estos	Lead C	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

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Project:	Mauna Kea CSO decomissioning	Date:	05/24/2	4	

Scheduled Activity						
Building(s):	Caltech Submil	limeter Observatory	Floor(s): N/A			
Room(s):	N/A	I/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. U area to load up debris onto trucks. Pumps and Cassettes set up around	
12:00 pm	5 trucks loaded. In between loading trucks, excavator operator manipular pieces and panels over center-dip of the structure. All available hands cloading.	
12:30 pm	Pumps and cassettes collected. Debris was secured in the center-dip of clean.	the structure. Left work area
LEI Staff:	Calvin Arca	Date: 05/24/24

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Project No.:				Date:	05/24/24				
Client:			S	ampled By:	Calvin Arca	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 5/24/24 L1	OWA	7:30 am	12:30 pm	2	2	2	300	600	
Sample Location At gate / road entr		atory structure	∍. Northeast c	of observatory.					
Analy (select o			Asbe	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 5/24/24 L2	OWA	7:30 am	12:30 pm	2	2	2	300	600	
Sample Location Next to water-pum		bservatory str	ucture. North	west of observ	/atory				
Analy (select o			Asbe	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 5/24/24 L3	OWA	7:30 am	12:30 pm	2	2	2	300	600	
Sample Location Southwest of obse		ite side of the	gate / road e	ntrance. Along	ı rope barrier.				
Analy (select o			Asbe	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 5/24/24 L4	OWA	7:30 am	12:30 pm	2	2	2	300	600	
Sample Location Southeast of obse		ite side of the	storage shed	ls. Along rope	barrier.				
Southeast of observatory. Opposite side of the storage sheds. Along rope barrier. Analyte: (sleet one) Asbestos 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

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Project:	Mauna Kea CSO decomissioning	Date:	05/28/2	24	

Scheduled Activity							
Building(s):	Caltech Submil	limeter Observatory	Floor(s):	N/A			
Room(s):	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 dust down. Unitek prepared loading area by laying down plastic and conneeded. Pumps and cassettes setup around work area.	
12:30 pm	3 trucks done loading. All hands clean area as needed. Delay due to exc	cavator self-cleaning mode.
1:00 pm	Northwest began removing rotating red metal piece that circulated arou pm.	nd structure. All removed by 1:30
2:30 pm	All available hands cleaned debris around work area. No paint chips see platform of CSO with plastic, especially soft insulation. Debris very satur concrete plateform. Wind forecast for the night was low. Pumps and cas	ated, water seen collecting on
LEI Staff: 0	Calvin Arca	Date: 05/28/24

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Project No.:			Date: 05/28/24					
Client:			Sampled By: Calvin Arca					
Project Site:	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 5/28/24 L1	OWA	9:30 am	2:30 pm	2	2	2	300	600
Sample Location At gate / road entr		atory structure	e. Northeast c	f observatory.				
Analy (select o			Asbe	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 L2	OWA	9:30 am	2:30 pm	2	2	2	300	600
*	Sample Location: Next to water-pump shed of the observatory structure. Northwest of observatory.							
Analy (select o			Asbe	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 L3	OWA	9:30 am	2:30 pm	2	2	2	300	600
Sample Location Southwest of obse		ite side of the	gate / road e	ntrance. Along	rope barrier.			
Analy (select o			Asbe	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 L4	OWA	9:30 am	2:30 pm	2	2	2	300	600
Sample Location Southeast of obse		te side of the	storage shed	s. Along rope	barrier.			
Analy			Asbe	stos	Lead C	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

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Project:	Mauna Kea CSO decomissioning	Date:	05/29/2	4	

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

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.	Time	Description
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. Goodfellow stopped hammering ring. Constant repairs on hydraulic lines. Switched to bucket and starter 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.	6:45 am	Meeting at Hale Pohaku. Discussed plans for the day.
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 starte 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.	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.
1:00 pm Goodfellow stopped hammering ring. Constant repairs on hydraulic lines. Switched to bucket and starter 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.	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.
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.	11:00 am	Goodfellow started hammering raised concrete lip. Water as needed to keep dust down.
2:30 pm Done cleaning. Pumps and cassettes collected. Cesspool area roped off. Left work area.	1:00 pm	
	2:30 pm	Done cleaning. Pumps and cassettes collected. Cesspool area roped off. Left work area.
LEI Staff: Calvin Arca Date: 05/29/24	LEI Staff: (Calvin Arca Date: 05/29/24

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Project No.:			Date:			05/29/24			
Client:			S	ampled By:	Calvin Arca				
Project Site: CS	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 5/29/24 L1	OWA	8:30 am	2:30 pm	2	2	2	360	720	
Sample Location: At gate / road entra		atory structure	e. Northeast c	of observatory.					
Analyte			Asbe	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: Next to container sto		area. Next to	rope barrier. I	Northwest of o	bservatory				
Analyte			Asbe	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 L3	OWA	8:30 am	2:30 pm	2	2	2	360	720	
Sample Location: Southwest of observ		ite side of the	gate / road e	ntrance. Alonç	ı rope barrier.				
Analyte			Asbe	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	
Sample Location: Southeast of observ		ite side of the	storage shed	s. Along rope	barrier.				
Analyto	Analyte:			estos 💿	Lead C	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

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Project:	Mauna Kea CSO decomissioning	Date:	05/30/2	24	

Scheduled Activity								
Building(s):	Caltech Submil	limeter 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 structure in work area besides possible paint chips.
9:30 am	Goodfellow excavator did not work on cesspool. Switched sides to remove metal trim on raised lip of CSO structure. Used hammer attachment to do so. Water used as needed to keep dust down. Available hands were on CSO concrete platform shovelling and sweeping debris into loader bucket to be loaded on dump truck.
11:00 am	2nd excavator from goodfellows arrived for cesspool digging. Meanwhile, Northwest focused on loading machinery. All hands cleaned work area as much as possible before heavy machines started moving.
1:00 pm	Prepare area for soil sampling. Plastic laid out with burms. Excavator loaded soil onto plastic while Calvin sampled. PID reader nearby to track VOC concentrations. No concerns seen.
2:30 pm	Pumps and cassettes collected. Work area was clean. Cesspool roped off. Equipment collected. Left work area.
LEI Staff: C	Calvin Arca Date: 05/30/24

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Project No.:				Date:	05/30/24			
Client:			S	ampled By:	Calvin Arca	1		
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 5/30/24 L1	OWA	7:30 am	2:30 pm	2	2	2	420	840
Sample Location At gate / road ent		atory structure	∍. Northeast c	of observatory.				
Analy			Asbe	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 L2	OWA	7:30 am	2:30 pm	2	2	2	420	840
Sample Location Next to container		ithin work are	a. Next to rop	oe barrier. Nort	hwest of obse	rvatory		
Analy (select o			Asbe	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 L3	3 OWA	7:30 am	2:30 pm	2	2	2	420	840
Sample Location Southwest of obse		ite side of the	gate / road e	ntrance. Along	ı rope barrier.			
Analy (select o			Asbe	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 L4	OWA	7:30 am	2:30 pm	2	2	2	420	840
Sample Location Southeast of obse		ite side of the	storage shed	is. Along rope	barrier.			
Analy			Asbestos • 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

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Project:	Mauna Kea CSO decomissioning	Date:	05/31/2	4	

Scheduled Activity							
Building(s):	Caltech Submil	limeter 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. 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 concrete skirt). Excavator for cesspool down, awaited repairs for the day.						
10:30 am	Unitek gathered all signatures of monitors for clearance. Left job site. Area 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 gather samples and advise for material management.						
3:00 pm	Work done. Cesspool not finished. Soil stockpiles covered with plastic. Samples kept cool. Left work area.						
LEI Staff: C	Calvin Arca Date: 05/31/24						

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Project:	Mauna Kea CSO decomissioning	Date:	ate: 06/03/24		

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

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.	Time	Description		
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. 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. All soil samples from DU 2 and DU 3 taken. All stockpiled soils covered and secured with plastic. Left wor	7:00 am	Meeting at Hale Pohaku. Discussed plans for the day.		
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 wor	7:30 am			
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 wor	11:30 am	Reached base of cesspool. Last of DU 2 samples taken.		
The state of the s	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: Calvin Arca Date: 06/03/24	LEI Staff: 0	Calvin Arca Date: 06/03/24		