

Mr. Randall Urasaki WSP USA 1001 Bishop Street, Suite 2400 American Savings Bank Tower Honolulu, Hawaii 96813 August 21, 2024

Subject: Limited Lead Paint Sampling

Nanue Bridge

Hawaii County, Hawaii

Dear Mr. Urasaki

On August 4, 2024, under the guidance of WSP USA, Inc., EnviroQuest, Inc, (EQI) collected ten paint chips samples for lead analysis at Nanue Bridge in Hawaii County, Hawaii. Samples were collected from the steel beam and girders which may be repaired or replaced during repair work by Hawaii Department of Transportation. All samples were gray paint, and no other colors were present/visible during sample collection. Samples were collected to bare metal substrate. All samples were collected from ground level to 6 ft above ground elevation. Access and slope conditions limited the sample collection area.

Figure 1 identifies the general site area of Nanue Bridge, and Figure 2 identifies the sample locations. The sample IDs (DU2, DU3, etc.) correspond to decision units from the Spring 2024 EQI soil sample site investigation at Nanue Bridge.

Samples were submitted to Hawaii Analytical Laboratory (HAL) in Honolulu, Hawaii, an American Industrial Hygiene Association (AIHA) accredited laboratory with a specific accreditation for lead analysis under AIHA Environmental Lead Laboratory Accreditation Program. The paint film samples were analyzed by NIOSH Method 7082m *Lead by Flame* Atomic Absorption Spectrophotometry.

Based on the laboratory analytical results, none of the 10 samples exceeded the EPA guidelines for lead based paint. The EPA defines lead-based paint as paint or other coatings containing lead equal to, or in excess of, 0.5% lead by weight.

For the purpose of this report, lead containing paint (LCP) is classified as paint where the lead detected is greater than the laboratory analytical detection limit but less than 0.5% lead by weight. All of the samples were classified as LCP under this scenario. A summary of the data is presented in Table 1.

Prior to the disturbance of any LCP, the contractor's employees disturbing the painted materials must be informed that it contains lead and must conduct all lead paint disturbance work in accordance with Occupational Safety and Health Administration (OSHA) 29 CFR 1926.62 *Lead*.

If lead paint chip or waste is generated during the renovation and/or demolition work, composite samples of the generated waste must be collected for *Toxicity Characteristic Leaching Procedure* (TCLP) analysis to determine the waste disposal characterization. *Hawaii Administrative Rules, Title 11, Department of Health, Chapter 261, Hazardous Waste*



Management allows a maximum concentration of lead contaminant by TCLP at 5.0 mg/L. TCLP results exceeding the 5.0 mg/L threshold requires the material to be disposed of as hazardous waste. Results below this threshold allow for the lead waste to be disposed of as construction debris.

TABLE 1Paint Chip Sample Summary
Nanue Bridge, HI

Sample No.	Sample Location/Description	Result (wt. %)	LBP₁ (Y/N)	LCP ₂ (Y/N)
NAN_Pb_DU2a	N. Embankment, DU2, eastern support girder	0.14	N	Y
NAN_Pb_DU2b	N. Embankment, DU2, middle	0.041	N	Y
NAN_Pb_DU2c	N. Embankment, DU2, western support	0.021	N	Y
NAN_Pb_DU3a	N. Embankment, DU3, middle	0.0087	Ν	Y
NAN_Pb_DU3b	N. Embankment, DU3, western beam	0.066	Ν	Y
NAN_Pb_DU9	S. Embankment, DU9, southeastern footing	0.019	N	Y
NAN_Pb_DU10a	S. Embankment, DU10, southeastern footing	0.094	N	Y
NAN_Pb_DU10a2	N_Pb_DU10a2 S. Embankment, DU10, southwestern footing		N	Y
NAN_Pb_DU10b	NAN_Pb_DU10b S. Embankment, DU10, northeastern footing		Ν	Y
NAN_Pb_DU10b2	NAN_Pb_DU10b2 S. Embankment, DU10, northwestern footing		N	Y

^{1.} LBP = >0.5% lead by weight

EQI appreciates this opportunity to assist with your lead sampling needs. Any question regarding our work and this report, the presentation of the information, and the interpretation of the data are welcome and should be referred to the undersigned. We look forward to working with you again in the future.

Sincerely,

Scott Moncrief, LG

Attachments

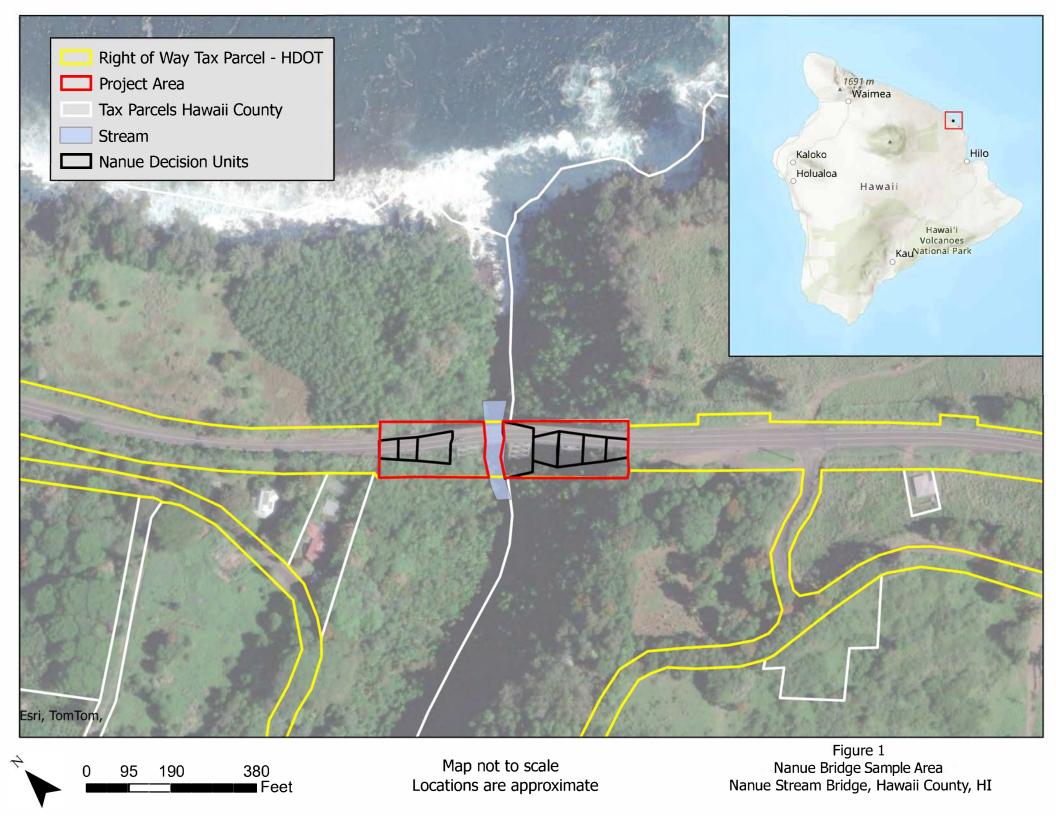
Laboratory Analytical Report

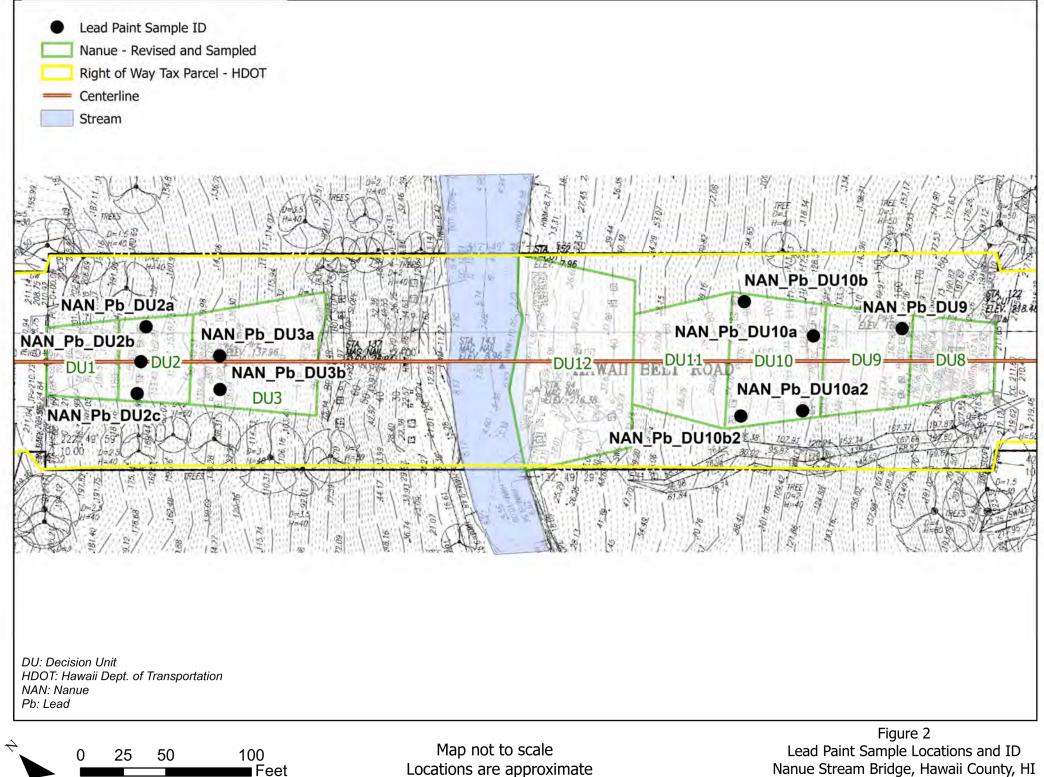
Figure 1: Nanue Bridge Sample Area

Figure 2: Lead Paint Sample Locations and ID

^{2.} LCP = >laboratory detection limit but <0.5%

^{3.} BDL= Below the laboratory detection limit





Locations are approximate

Nanue Stream Bridge, Hawaii County, HI



Nanue Bridge Lead Paint Chip Samples: August 4, 2024













Hawaii Analytical Laboratory ANALYTICAL REPORT

Monday, August 12, 2024

EnviroQuest, Inc. 98-029 Hekaha Street, Suite 21 Aiea HI 96701 **Phone Number:** (808)486-5881 **Facsimile:** (808) 486-5889

Email: eqi@enviroquestinc.com

Lab Job No: 202407893 **Date Submitted:** 8/5/2024

Project Name: Nanue Bridge Lead Assessment, 8/4/24

Total Lead (paint chips)					
Sample No.	NIOSH Method: 7082m LEAD by FAAS Your Sample ID / Description	Results	Units	Date Analyzed	
202454276 Comments	NAN_Pb_DU9	0.019	wt %	8/7/2024	
202454277 Comments	NAN_Pb_DU10a	0.094	wt %	8/7/2024	
202454278 Comments	NAN_Pb_DU10a2	0.047	wt %	8/7/2024	
202454279 Comments	NAN_Pb_DU10b	0.055	wt %	8/7/2024	
202454280 Comments	NAN_Pb_DU10b2	0.031	wt %	8/7/2024	
202454281 Comments	NAN_Pb_DU2a	0.14	wt %	8/7/2024	
202454282 Comments	NAN_Pb_DU2b	0.041	wt %	8/7/2024	
202454283 Comments	NAN_Pb_DU2c	0.021	wt %	8/7/2024	
202454284 Comments	NAN_Pb_DU3a	0.0087	wt %	8/7/2024	

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

EnviroQuest, Inc. **Phone Number:** (808)486-5881 98-029 Hekaha Street, Suite 21 **Facsimile:** (808) 486-5889

Aiea HI 96701 Email: eqi@enviroquestinc.com

Lab Job No: 202407893 **Date Submitted:** 8/5/2024

Project Name: Nanue Bridge Lead Assessment, 8/4/24

Total Lead (paint chips) NIOSH Method: 7082m LEAD by FAAS Date						
202454285 Comments	NAN_Pb_DU3b	0.066	wt %	8/7/2024		

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

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

Results and Symbols Definitions

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

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

MRL = Method Reporting Limit.

Anne Antin

Quality Control Manager

Anne Butin B

	☐ New Client?						
3615 Harding Avenue, Suite 308 Honolulu, HI 96816 Ph: 808-735-0422 - Fax: 808-735-0047 https://analyzehawaii.com	Report To* Company Address* City, State, Zipcode Phone / Cell No.* Report results to Email / Fax	Paritory Paritory Paritory Boss 2 Dand	Moncriet/t Quest Inc Jevaha St. Hautaii, a 86 0222 Leigh ant Denviroquestil Cott moncri	Scott Monor	Fmail Invoice To	David 1 98-029 Anca, H 808 258	
□ 2 WD	t Project No.:	Site	e/Project Name:	e Lead Asso	esment		Sampled By & Certif. #:
☐ 24 hours ☐ 6 hours or less ☐ 4 hours or less ☐ 1-2 hours	ial Instructions:				PLM POSITIVE STOP + stop / SAMPLE + stop / LAYER	P? Verbal results?	Lab Report No.: 2024078943
Sample ID Sample I	Description*	Date Sample (mm/dd/yy)		Sample Area / Air Volume	Analysis Requested*	, Method Reference	Lab Sample(s) No.:
NAN_A_DU9 PG	int sample	08/04/20	ध्य		Total Lead		202454276
NAN-B-DIVA	w						202454277
IAN_Ro_DUIDAZ	N						202454278
1AN - P3-DUTOS	N	1					202454279
UN-BO DIO P.Z	W.		1 1				202454280
19N_PP_DUZA	15						202454281
JAN-PY-DUZE	18						202454282
4N_Pb_DUZe	H						202454283
JAN_POLDUBA	ff.						202454284
VAN. Pb_DU3b	fi -	7			7		202454285
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