Limited Pre-Renovation Hazardous Materials Survey Report

Zosel Dam Gate Improvements 1 14th Avenue Oroville, Washington

Prepared for: Washington State Department of Enterprise Services 4304 South Evergreen Road Veradale, WA 99307

March 8, 2024 PBS Project 64598.016



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1 INTRODUCTION

1.1 Project Background

On February 16, 2024, PBS performed a limited pre-renovation hazardous materials survey of Zosel Dam located in Oroville, Washington. The survey was requested by Washington State Department of Enterprise Services in anticipation of renovation of the dam gates.

The purpose of the survey was to locate, identify, and quantify accessible friable and non-friable hazardous building materials for removal prior to renovation.

The survey is also intended to satisfy Washington State Department of Labor and Industries (L&I) hazard communication requirements as well as requirements by the Washington Administrative Code (WAC) to perform an asbestos inspection prior to renovation or demolition activities under WAC 296-62-07721 and WAC 296-155-176.

1.2 Facility Description

Zosel Dam

Located at 1 14th Avenue in Oroville, Washington serving as a water control structure between Washington and Canada. Reconstruction of the current structure was completed in 1987. The dam currently consists of a control structure, gantron lift system, 4 spillways with 4 gates, a roof, generator room, and the control room.

1.3 Survey Process

Accessible areas included in the project scope were inspected by the following AHERA Certified Building Inspector(s):

Inspector Name: Cienna Landon Inspector Certificate Number: IMR-23-0507C Certificate Expiration Date: June 20, 2024 Inspector Email: cienna.landon@pbsusa.com Inspector Phone: 509-416-5455

Inspector Name: J. Kanani Patricio-Young Inspector Certificate Number: IRO-23-86488 Certificate Expiration Date: June 5, 2024 Inspector Email: kanani.young@pbsusa.com Inspector Phone: 509-375-7833

PBS endeavored to inspect all accessible areas of the scope of work. Inaccessible areas consist of those requiring selective demolition, fall protection, or confined space entry protocols to gain access.

When observed, suspect materials were sampled. All samples were assigned a unique identification number and transmitted to the appropriate laboratory for analysis. See section 2 for findings.



2 FINDINGS

2.1 Asbestos-Containing Materials (ACMs)

The Zosel Dam was inspected by a PBS Asbestos Hazard Emergency Response Act (AHERA) accredited inspector to determine the presence, location, and approximate quantity of asbestos-containing materials (ACMs). PBS collected a total of 46 bulk samples of building materials, suspected of containing asbestos, and submitted them under chain of custody to EMC Labs of Phoenix, Arizona, for polarized light microscopy (PLM) analysis. Suspect ACMs may exist in inaccessible areas. PBS endeavored to determine the presence and estimate the condition of suspect materials in all inaccessible areas included in the scope of work. While PBS has endeavored to identify ACMs that may be found in concealed locations, additional unidentified ACMs may exist. A regulated asbestos-containing material is defined as containing greater than 1% asbestos content.

		TABLE	1: ASBESTOS-CON	TAINING MATER	IALS			
MATERIAL DESCRIPTION / SUBSTRATE	HOMOGENOUS MATERIAL ID	COLOR/ PATTERN / TEXTURE	ROOM / LOCATION SAMPLED	ASBESTOS PERCENT % / ASBESTIFORM	САТ	FRIABLE	CONDITION	QUANITY
Roof Penetration Caulk	HM1	Gray / Silver	Roof	3% Chrysotile	М	NF	Fair	~40 LF
Silver heat tempered TSI	HM2	Silver	Upper Level Generator Room	8% Chrysotile	TSI	F	Fair	~6 LF
Fire Door Frame Caulk	HM3	Gray	Upper Level Generator Room	3% Chrysotile	М	NF	Fair	~40 LF
(2) Fire Doors and frames	HM4	N/A	Control Room & Generator Room	PACM	М	NF	Fair	2 EA
Electrical Grounding Paper/Insulation	HM5	Silver	Main Level & Upper Level Control Room	PACM	М	NF	Fair	NQ
Square Shaped Socket Light Fixture heat shield backing	HM6	Silver	Throughout	PACM	М	NF	Fair	25 EA
CAT: CATEGORY: S= Sur	facing, TSI = Thermal Sy	stem Insulation, N	1 = Miscellaneous	L	F = Linear	Feet	NQ = Not Quantifie	ed
PACM = Presumed Asbes	tos Containing Material IE – Non Friable			SF	- = Square	Feet it		

The materials listed in Table 1 below, were determined to **contain asbestos:**

CONDITION: GOOD = Material had no visible damage or surface marring, DAMAGED = Material had visible damage evenly distributed on < 10% surface area or Material had visible localized damage over <25% of specific material as whole. SIGNIFICANTLY DAMAGED = Material had visible damage evenly distributed over > 10% surface area or Material had visible localized damage over > 25% of specific material as whole. *or reference AHERA ACBM Condition Categories Hazard Ranks 1-7*

PBS observed approximately twenty-five (25) square shaped socket light fixtures with heatshield backing and wiring insulation that should be presumed to contain asbestos.

PBS observed two (2) fire doors and door frames that should be presumed to contain asbestos.

PBS observed two (2) electrical enclosures and numerous electrical grounding boxes that may contain suspect electrical grounding paper/insulation that should be presumed to contain asbestos.

At the time of this survey, all asbestos-containing building materials were observed to be in fair condition.

Please refer to the asbestos bulk sample inventory for more sample details.

The following materials were determined **not to contain asbestos**:

- Green Metal Beam Paint South Control Structure
- Green/Black Wheel Crank South Control Structure
- Cementitious Concrete Mix Structure North/South/Mid Control Structure
- Green Painted Coating on Metal Ceiling Panels Control Structure
- Green/Gray Lifting Arms South Control Structure
- Old Screw Boot Debris Control Structure
- Yellow Gasket Gantron Lifting System
- Paint Gantron Lifting System
- Anti-Rust Primer Spillway Gates
- Seam Caulk Corrugated Metal Roof
- Gray Generator Paint Upper-Level Generator Room
- Black 3" Gasket Merlin Generator
- White/Black Gasket Merlin Generator
- Wire Insulation Merlin Generator
- White Wrapped TSI Fiberglass Generator Room
- Hydraulic Gaskets Upper-Level Control Room
- Conduit Gaskets Upper-Level Control
- Lift Gate Screws Upper-Level Control Room
- White Fibrous Insulation Upper-Level Control
- Black Rubber Air Flow Stop Upper-Level Main Room Platform
- Blue Pump Gasket South Pump Vault

For a complete listing of representative bulk sampling and associated laboratory analysis, refer to the attachments, Appendix A.

Asbestos Regulations

Regulations define ACM as any material containing more than 1% asbestos. Although materials with <1% asbestos are not considered by regulatory agencies to be an ACM, they still have some asbestos content, and WAC has specific requirements for situations in which workers may encounter, disturb, or remove materials containing any concentration of asbestos. For the sake of hazard communication, these materials are included in the asbestos-containing materials section of this report.

L&I does require training for workers who impact materials with any amount of asbestos if that impact could result in airborne fiber concentrations over the permissible exposure limit (PEL) of 0.1 fibers per cubic centimeter (f/cc) of air.

The EPA defines ACM as "any material containing more than one percent asbestos." PBS recommends that all ACM to be impacted by the planned demolition be removed and disposed of by a Washington State certified asbestos abatement contractor in accordance with all local, state, and federal regulations. Impact of ACM should be performed according to Washington Industrial Safety and Health Act (WISHA) requirements, including WACs 296-62 and 296-65. Proper worker training, personal protective equipment, engineering controls, and housekeeping procedures must be utilized as required.

OSHA provides federal regulations governing asbestos (29 CFR Part 1926, 1101). These regulations detail work procedures and how ACM is removed. OSHA believes that the single biggest problem is to workers who unknowingly or improperly disturb ACM. Hazard communication, training, personal protection, work practices, exposure monitoring, and recordkeeping are all major components of the regulation. Work impacting asbestos is subject to the requirements of various regulations, including, but not limited to 40 CFR Part 61, National Emission Standards for Hazardous Air Pollutants (NESHAPS); 40 CFR Part 763, AHERA; WAC 296-62 and 296-65; and local clean air agency regulations.

2.2 Lead-Containing Components

Lead-Containing Paint

Paint was sampled for lead content for the sake of hazard communication. The table below summarizes lead findings in paint sampled on site.

PBS collected (5) five paint chip samples were collected from representative building components from the dam platform and the upper level submitted under chain of custody to EMC labs of Phoenix, Arizona, (NVLAP # 101926-0) for analysis of lead content via flame atomic absorption (FLAA). The concentration of lead in the samples ranges from 990 parts per million (ppm) to 103,000 ppm.

See the lead sample inventory section for representative building components and corresponding results.

			TABLE 2: LEAD-COM	TAINING PAINT			
Paint Color	Room Equivalent (Room #)	Building Component Type	Substrate	Location / Room Side: A/B/C/D	Result % by Weight	Result ppm	BRL/LCP/LBP
Green Paint	Control Structure	Lifting Arm	Metal	Dam Platform	0.266	2,660	LCP
Yellow Paint	Gantron	Lifting System	Metal	Dam Platform	10.3	103,000	LBP
Brown Paint	Main Room	Siding	Metal	Upper Level	1.90	19,000	LBP
Cream Paint	Main Room	Pipe	Metal	Upper Level	0.099	990	LCP
Gray Paint	Generator Room	Merlin Generator	Metal	Upper Level	0.242	2,420	LCP

BRL = Below Labs Reportable Limits

LCP = Lead-containing-paint 0.006 % - 0.499 % (less than 5,000 ppm)

LBP = Lead-based-paint 0.5 % by weight or more (5,000 ppm or more)

Paint testing for this survey was limited in scope. The report information and testing results are not to be construed as an exhaustive investigation of lead-containing paint on all building surfaces. All paint on painted surfaces not identified in this report should be presumed to contain lead.

Peeling and flaking paint was observed throughout the dam control structure. Accumulations of paint chips were noted in various areas. Caution should be exercised so as not to disturb peeling, flaking or accumulated paint chips. Applicable regulations in conjunction with construction activities are provided below.

Lead-Containing Paint Regulations

The Consumer Product Safety Commission limit for lead in consumer paint products is 0.009% or 90 ppm or greater. The Department of Housing and Urban Development (HUD) and the EPA define lead-based paint as



that which contains 0.5% or 5,000 ppm. Under L&I, any lead concentration in paint that may become airborne during construction operations triggers requirements in the Lead in Construction Standard WAC 296-155-176 to protect employees impacting the paint.

Disposal

According to Washington State Department of Ecology, Lead in Construction and Demolition Waste guidance generally requires hazardous waste determination (i.e., Toxicity Characteristic Leaching Procedures [TCLP] testing) if demolition debris is disposed of at a solid waste landfill that meets the current design standards for municipal solid waste disposal facilities of 40 CFR Part 258.

2.3 Polychlorinated Biphenyls (PCBs) / Mercury Investigation

PBS conducted a visual inspection of the dam for suspect PCB lamp ballasts, mercury-containing fluorescent lamp tubes, and mercury-containing thermostat switches. PBS observed the following materials in the following locations:

- Upper Level Control Room: Eight (8) 4-foot mercury light tubes & Four (4) PCB light ballasts.
- Throughout Dam Structure: Eight (8) Caged light fixtures w/ mercury HID/lighting.
- Hydraulic grease used in the upper level on the horizontal gate lifting shaft contained PCB at levels ≥ 50 ppm.

PBS inspected representative fluorescent light fixture ballasts throughout the structure included in this investigation. The majority of ballasts throughout all buildings were found to be presumed to contain PCBs due to lack of indication stating "No PCBs". PBS did not observe any leaking ballast on the fixtures inspected as part of our current investigation.

Mercury-Containing Fluorescent Light Tubes/Switches

All mercury-containing compact fluorescent light bulbs and switches should be carefully handled, packaged, and recycled or disposed of in the appropriate manner. Please refer to the following documents for requirements for removal and disposal of mercury-containing waste:

- US Environmental Protection Agency Toxic Substance Control Act, TSCA, (Code of Federal Regulations Title 40, Part 761).
- RCRA, Resource Conservation and Recovery Act, 40 CFR Part 2761, Subpart D., 40 CFR 273.

This report is not suitable as a bid document or an asbestos abatement design. The purpose of this report is risk hazard communication only.

Polychlorinated Biphenyls (PCBs)Containing Materials

Suspect building products were sampled for PCBs. Results indicated that the Hydraulic grease used in the upper level on the horizontal gate lifting shaft contained PCB at levels \geq 50 ppm.

The hydraulic grease staining was also present throughout the upper level main area decking directly beneath the gate lifting shaft and should be taken into consideration during and remedial activities.

PCB Sample #	Location	Material Type	Mg/Kg	Results in PPM
2001	Control Structure	Bulk/Gasket/Caulk	< 1.2	<1.2

The table below summarizes PCB findings sampled on site.



PCB Sample #	Location	Material Type	Mg/Kg	Results in PPM
2002	Upper Level - Gate Lifting Shaft	Bulk/Hydraulic Grease	230	230
2003	Upper Level - Gate Screw Housing	Bulk/Hydraulic Grease	< 1.8	< 1.8
2004	Upper Level - Merlin Generator	Bulk/Hydraulic Grease	< 6.1	< 6.1

Caulking and sealants of certain vintages can contain varying levels of PCBs. PBS tested representative caulking and sealants for the presence of PCBs. The samples were assigned unique identification numbers and transmitted to NVL Laboratories, Inc. in Seattle, Washington under chain-of-custody protocols for analysis. The samples were analyzed by EPA Method 8082A. Sampling and analysis revealed the following materials to contain PCBs: Sample # 2002 gate lifting shaft hydraulic oil in the upper level contained PCB at levels \geq 50 ppm which is not authorized under TSCA and the federal PCB regulations at 40 CFR part 761. Manufactured PCB products that contain PCBs \geq 50 ppm are unauthorized for use and must be removed for disposal as a PCB bulk product waste.

PBS recommends all light ballasts be inspected prior to disposal. Magnetic ballasts should be presumed to contain PCBs and properly removed, stored, transported, and disposed of in accordance with WAC 173-303 Dangerous Waste Regulations and 40 CFR Part 761 Subpart D. Electronic ballasts do not contain PCBs. None of the suspect caulking sampled by PBS contained greater than 50 mg/kg PCBs and does not require removal and disposal as a regulated PCB Bulk Product Waste prior to demolition. Comply with L&I regulations related to PCBs for materials containing less than 50 ppm PCBs.

For the locations, quantities and results of PCB sampling see attachments in Appendix C.

For laboratory reports, sample locations and constituent concentrations see Appendix D.

Polychlorinated Biphenyls (PCBs) Regulations

Various building products from the 1950's through the 1970's were manufactured with polychlorinated biphenyls (PCBs) as a key ingredient because of its non-flammability, chemical stability, high boiling point, and electrical and thermal insulating properties. PCBs were also added to many building products as a plasticizer, which imparted flexibility.

Buildings constructed or renovated from the 1950's through the 1970's may include building products manufactured with PCBs. Examples of potentials PCB-containing building products include:

- Caulking and grout in floor and wall joints
- Oil-based paint coating floors and walls
- Mastic and adhesives used under flooring (tiles and carpets)
- Sealants and finishing used on flooring
- Gaskets around windows and doors and in heating, ventilation, and air conditioning systems and ducting
- Window glazing
- Roofing and Siding



Building products found to contain greater than or equal to 50 ppl PCBs are classified as PCB bulk product waste under federal regulations through the Toxics Substances Control Act (TSCA) found in Chapter 40 of the Code of Federal Regulations (CFR) (40 CFR 761). PCB bulk product waste is "unauthorized for use" and must be removed and disposed of in accordance with 40 CFR 761.62. Materials that have come into contact with PCB bulk product waste or PCB remediation waste, as defined below. PCB remediation waste must be managed in accordance with 40 CFR 761.61.

On October 24, 2012, USEPA (EPA) issued a reinterpretation of its definitions of PCB bulk product waste and PCB remediation water. This reinterpretation allows building material (i.e. substrates) that are "coated or serviced" with PCB bulk product waste at the time of designation for disposal to be managed and disposed of as PCB bulk product waste. However, PCB contaminated substrates that remain in place after the PCB bulk product waste has been removed must be managed as PCB remediation waste. This reinterpretation allows PCB-contaminated substrate (regardless of concentration) if removed and designated for disposal at the same time as the PCB bulk product waste to be disposed of at a State licensed non-hazardous landfill. Disposal of PCB bulk product waste is generally less costly than disposal of PCB remediation waste.

Under EPA's reinterpretation, examples of PCB bulk product waste include:

- Caulk, paint, mastic, adhesives, sealants, etc.
- The PCB contaminated substrate if the substrate is removed and designated for disposal at the same time as the associated PCB bulk product waste. Examples of the types of substrates that would then be considered PCB bulk product waste include:
 - Concrete adjacent to caulked or grouted joints
 - Concrete, wood, or other substrate coated with PCB-containing paint
 - Flooring materials, including tiles and carpets, coated with mastic, adhesives, sealants, etc.
 - Window materials in contact with gaskets and glazing

Examples of PCB remediation waste in buildings include:

- Substrate (concrete, wood, flooring materials, etc.) contaminated with PCBs from a PCB bulk product waste (caulk, paint, etc.), if the PCB bulk product waste has been removed and the substrate remains in place.
- Soil beneath caulked or grouted joints.
- Flooring impacted by a release of PCB-containing hydraulic, cutting, or transformer oils.
- Light fixtures impacted by a release of PCBs from PCB-containing ballast.

3 RECOMMENDATIONS

3.1 ACMs

PBS recommends that all ACMs to be impacted by the renovation be removed prior to renovation activities. A qualified Washington State licensed asbestos abatement contractor should be employed to remove all such ACMs according to applicable local, state, and federal regulations.

The possibility exists that suspect ACMs may be present in equipment, wall, and ceiling cavities, and buried/below slab areas included in the scope of demolition. These may include, but are not limited to, waterproofing membrane, buried pipe insulation, buried transite water and sewer piping, internal gaskets, caulking and sealants, construction adhesives and mastics. If suspect ACMs are uncovered during construction, contractors should stop work immediately and inform the owner promptly for confirmation testing. All untested materials should be presumed asbestos-containing or tested for asbestos content prior to impact.



Materials found to contain less than one percent (<1%) asbestos require compliance with Occupational Safety and Health Regulations (OSHA). These materials may be demolished by any contractor employing an asbestos supervisor using all the work practices and engineering controls specified in 29 CFR 1926.1101. In addition, the contractor must maintain administrative programs such as respiratory protection and, in some cases, medical monitoring of employees.

Additional suspect ACMs may be present in concealed spaces, which are discussed above. Caution should be exercised during demolition to prevent impact of suspect ACMs. All suspect ACMs should be presumed asbestos-containing until properly sampled and analyzed.

3.2 Lead-Containing Paint

Representative painted coatings from the project locations were found to contain lead by laboratory analysis. Impact of painted surfaces with detectable concentrations of lead requires construction activities to be performed according to applicable regulations. Workers impacting LCP should be provided the proper personal protective equipment and use proper work methods to limit occupational and environmental exposure to lead until an initial exposure assessment has been conducted.

The OSHA Lead in Construction Standard (29 CFR 1926.62) outlines worker exposure limits, personal protection requirements and employer responsibility for exposure assessment, training, housekeeping, and recordkeeping. OSHA's lead standard applies to all work where employees may be exposed to lead in construction, alteration, or repair activities. This includes demolition and/or renovation of structures where lead-containing materials are present. Under OSHA, any amount of lead triggers the OSHA Lead in Construction Standard, 29 CFR 1926.62. Painted coatings may exist in inaccessible areas of the project or in secondary coatings. Any previously unidentified painted coatings should be considered lead containing until sampled and proven otherwise.

3.3 PCBs & Mercury-Containing Components

Fluorescent lamps are known to contain concentrations of mercury, which is toxic to mammals. All fluorescent lamps and tubes should be handled and recycled in accordance with applicable regulations during demolition activities. Breakage of lamps is to be prevented. All lamps and tubes should be properly packaged and recycled or disposed of at a facility permitted to accept such material. Trained workers, handling, engineering controls and disposal practices should be used when performing this work. All waste should be handled in accordance with applicable regulations.

Any electronic equipment with liquid mercury bulbs or Merciod switches should have the mercury components carefully removed by properly trained personnel using appropriate work practices. The mercury components should then be containerized prior to transporting to a recycling facility permitted to accept such waste. Any broken tubes or switches should be promptly cleaned by properly trained personnel using appropriate work practices and worker protection.

PBS recommends all light ballasts be inspected prior to disposal. All magnetic ballasts should be presumed to contain PCBs and properly removed, stored, transported, and disposed of in accordance and 40 CFR Part 761 Subpart D. Electronic ballasts do not contain PCBs and can be disposed of as general debris in compliance with applicable codes and endpoint facility requirements.

PCBs were detected in levels over 50 ppm in the hydraulic grease used on the gate lifting shaft in the upper level main room. The hydraulic grease staining was also present throughout the upper level main area decking directly beneath the gate lifting shaft and should be taken into consideration during and remedial activities.



This report is not suitable as a bid document or an abatement design. The purpose of this report is risk hazard communication only.

4 LIMITATIONS

This study was limited to the tests, locations and depths as indicated to determine the absence or presence of certain contaminants. The site as a whole may have other contamination that was not characterized by this study. The findings and conclusions of this report are not scientific certainties, but rather probabilities based on professional judgment concerning the significance of the data gathered during this investigation.

Please do not hesitate to contact us if you have any questions regarding this report or require additional information.

Report prepared by: Cienna Landon Industrial Hygiene Inspector Cert. # IMR-23-0507c, exp. 6/20/2024 Report reviewed by: J. Kanani Patricio-Young Sr. Project Manager, Lead IH Cert. #IRO-23-8648B, exp. 6/05/2024

Signature

Date

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Date

APPENDICIES

APPENDIX A

Sample Location Field Form(s)

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	Codes/ ARCHIVE	Sample ID CO/2 CO/2 CO/3 CO/3 CO/4 CO/5 CO/6 CO/7 CO/6 CO/7 CO/6 CO/7 CO/6 CO/7 CO/6 CO/7 CO/2 C	Building / Floor / Locati Grantron Lit II II II Spill-way II II Corruguted Part Penet II TBC Rod t X See II	on / Material Description / Mastic Color / Substrate QU 4 System (Yellow) Graske 11 Baskes 11 Paint 11 Paint 11 Paint Gentes Paint Anner (Anti 11 11 11 11 11 11	NUTITY: SF/LF F F F F F F F	Category / riability / Cond. TSI Insulation Miscellaneous Surfacing Friable TSI Insulation Miscellaneou: Surfacing (Friable Non-Friable TSI Insulation Miscellaneous Surfacing Friable Non-Friable TSI Insulation Miscellaneous Surfacing Friable Non-Friable TSI Insulation Miscellaneous Surfacing Friable Non-Friable	Material Typ Gypsum/JC Date: Plaster Gypsum/JC Gypsum/JC Gypsum/JC Gypsum/JC Calific under Gypsum/JC Date: Date: Date: Date: Calific under Gypsum/JC Calific under Calific under Gypsum/JC Calific under Gypsum/JC Calific under Calific under Gypsum/JC Calific under Calific un

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COC Drawing Not to Codes / ARCHIVE	$\begin{array}{c} 29 \\ 30 \\ 30 \\ 08 \\ 30 \\ 30 \\ 30 \\ 30 \\ 30$	Building / Floor / Lo Generator 1 U1 U1 Mer Tin Gree U1 11	cation / Material Description / M Room (UL) Geo Marador 3 ⁴ ga 11 ga Wire	Aastic Color / Substrate QUANTITY: SF/LF wrador Paint - Gray 11 11 11 11 SKet (black) SKet (black) SKet (white/Black 2 Insulation	Category / Friability / Cond. TSI Insulation Miscellaneous Surfacing Friable Non-Friable TSI Insulation Miscellaneou: Surfacing Friable Non-Friable INOn-Friable INOn-Friable	Material Typs Gypsum//C _TSi = Plaster _CAB. = CAU _GCT = Brick _DCT = cramic _corebase = grout _ laminate = caulk _ vimi tile = Plaster _CAB. = CMU _GCT = Brick _DCT = cramic _corebase = grout _ laminate = caulk _ vimi tile = Gypsum//C _TSi = caulk _ vimi tile = caulk _ vimi tile
CO Drawing Not to Codes / ARCHIVE	29 30 30 30 30 30 30 30 40 22 00 22 00 23 00 24 00 24 00 24 00 25 00 25 00 27 00 27 00 27 00 27 00 27 00 27 00 25 00 27 00 25 00 25 00 27 00 25 00 25 00 27 00 27 00 25 00 25 00 27 00 00 00 00 00 00 00 00 00 0	Building / Floor / Lo Generator 1 UI UI UI Mer Tin Gres UI II II Generator Re	cation / Material Description / M Coom (UL) Geo merotor 3" ga 11 ga 11 ga Wiree m-white-wrag	tastic Color / Substrate QUANTITY: SF/LF rerador Paint - Gray 11 11 11 11 SKet (black) SKet (bhite/Black) SKet (bhite/Black)	Category / Friability / Cond. TSI Insulation Miscellaneous Surfacing Friable Non-Friable TSI Insulation Miscellaneou: Surfacing Friable TSI Insulation Miscellaneou: Surfacing TSI Insulation Miscellaneou: Surfacing S	Material Types Gypsum/JCTSI DefasterCAB. CMUGCT BrickDCT Ceramiccovebase groutlaminate Gypsum/JCTSI DefasterCAB. CMUGCT DerickDCT Ceramiccovebase groutlaminate Gypsum/JCTSI DefasterCAB. CMUGCT DefasterCAB. DefaultVinjtile Gypsum/JCTSI DefasterCAB. DefaultVinjtile Gypsum/JCTSI DefasterCAB. DefaultGCT DefaultGCT DefaultDCT Default
OO OC NORTH Drawing Not to ARCHIVE	29 30 30 30 30 30 30 30 30 30 30	Building / Floor / Lo Generator 1 U1 U1 Mer Tin Green 11 Generator Rez 43	cation / Material Description / M Room (UL) Geo merator 3" ga 11 ga 11 ga Wire m-White-wrag	tastic Color / Substrate QUANTITY: SF/LF surador Paint - Gray (1 11 11 11 SKet (black) SKet (black) SKet (bhite/Black) SKet (bhite/Black) ped TSI - Fiber glass 16 11	Category / Friability / Cond. TSI Insulation Miscellaneous Surfacing Friable Non-Friable TSI Insulation Miscellaneou: Surfacing Friable TSI Insulation Miscellaneou: Surfacing Friable Non-Friable TSI Insulation Miscellaneou: Surfacing Friable Miscellaneou: Surfacing Friable	Material Typs Gypsum//C _TSI PlasterCAB CMUGCT BrickDCT ceramiccovebase groutlaminate culkvinif tile Gypsum//CTSI PlasterCAB, CMUGCT BrickDCT ceramiccovebase groutlaminate culkvinif tile Gypsum//CTSI BriasterCAB, CMUGCT BrickDCT ceramiccovebase groutlaminate culkvinif tile Gypsum//CTSI BrickDCT ceramiccovebase groutlaminate caulkvinif tile caulkvinif tile
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COC Codes	29 30 50 50 50 50 50 50 50 50 50 5	Building / Floor / Lo Generator 1 U1 U1 Mer lin Greg U1 11 Generator Res 13 13	cation / Material Description / M Room (UL) Geo merator 3" ga "I g	tastic Color / Substrate QUANTITY: SF/LF marador Paint - Gray 11 11 11 11 SKet (black) SKet (bl	Category / Friability / Cond. TSI Insulation Miscellaneous Surfacing Friable INON-Friable Surfacing Friable Surfacing TSI Insulation Miscellaneous Surfacing Friable INON-Friable Surfacing Friable ISI Insulation Miscellaneous Surfacing Friable ISI Insulation Miscellaneous Surfacing Friable ISI Insulation Miscellaneous Surfacing Friable ISI Insulation Miscellaneous Surfacing	Material Type Gypsum/JCTSI DefasterCAB. CMUGCT BrickDCT Ceramiccovebase groutlaminate caulkvinitile Gypsum/JCTSI DefasterCAB. CMUGCT BrickDCT Ceramiccovebase groutlaminate caulkvinitile Gypsum/JCTSI DefasterCAB. CMUGCT BrickDCT Ceramiccovebase groutlaminate caulkvinitile Gypsum/JCTSI DefasterCCAB. CMUGCT BrickDCT DefasterCCAB. CMUGCT BrickDCT DefasterCCAB. CMUGCT DefasterCCAB.
	29 30 00^{31} 0022 0022 0022 0023 0024 0024 0024 0025 0026 0027 0028 0029 0030 0031	Building / Floor / Lo Generator I UI UI Mer Tin Gaes II Bonerator Ba 43 L VI	cation / Material Description / M Coom (UL) Geo merator 3 th ga 11 ga Wire Si [ver - wropp 11	tastic Color / Substrate QUANTITY: SF/LF reador Paint - Gray (1 1) 11 (1) SKet (black) SKet (bhite/Black) SKet (bhite/Shite) SKet (bhite/Shite) SKet (bhite/Shite) SKet (bhite/Shite) SKet (bhite/Shite) SKet (bhite/Shite) SKet (bhite/Shite) SKet (bhite) SKet	Category / Friability / Cond. TSI Insulation Miscellaneous Surfacing Friable TSI Insulation Miscellaneous Surfacing Friable Non-Friable TSI Insulation Miscellaneous Surfacing Friable TSI Insulation Miscellaneous Surfacing Friable TSI Insulation Miscellaneous Surfacing Friable TSI Insulation Miscellaneous Surfacing Friable	Material Types Za Gypsum//C TSI Plaster CAB CMU GCT Brick DCT caulk combase grout laminate caulk cordiant Brick DCT ceramic corebase grout laminate caulk vinitile Gypsum//C TSI Brick DCT ceramic corebase grout laminate caulk vinitile Gypsum//C TSI Brick DCT ceramic corebase grout laminate caulk vinitile Gypsum//C TSI Brick DCT ceramic corebase grout laminate caulk vinitile Gypsum//C TSI Brick DCT ceramic corebase grout laminate caulk vinitile
COO Drawing Not to Codes / ARCHIVE	$ \begin{array}{c} 29 \\ 30 \\ 30 \\ 30 \\ 30 \\ 30 \\ 30 \\ 30 \\ 30$	Building / Floor / Lo Generator 1 U1 U1 Mer lin Gree U1 11 Generator Res U1 U1 U1 U1 U1 U1	cation / Material Description / M Room (UL) Gree merstor 3" ga "I ga "I ga "I ga "I ja "Si lver - wrapp "I	tastic Color / Substrate QUANTITY: SF/LF merador Paint - Gray 11 11 11 11 SKet (black) SKet (bl	Category / Friability / Cond. TSI Insulation Miscellaneous Surfacing Friable INON-Friable Surfacing Friable INON-Friable Surfacing Friable INON-Friable Surfacing Friable INON-Friable Surfacing Friable INON-Friable Surfacing Friable INON-Friable ISI Insulation Miscellaneous Surfacing Friable INON-Friable ISI Insulation Miscellaneous ISI Insulation Miscellaneous ISI Insulation Miscellaneous ISI Insulation ISI Insulation ISI Insulation	Material Type Gypsum/JCTSI DefasterCAB. CAUGCT BrickDCT Ceramiccovebase groutlaminate CAUGCT BrickDCT Ceramiccovebase groutlaminate CAUGCT BrickDCT Ceramiccovebase groutlaminate CAUGCT BrickDCT Ceramiccovebase groutlaminate CAB. CAUGCT BrickDCT Ceramiccovebase groutlaminate CAB. CAUGCT BrickDCT Ceramiccovebase groutlaminate CAB. CAUGCT BrickDCT Ceramiccovebase groutlaminate CAUGCT DefasterCAB. CAUGCT BrickDCT Ceramiccovebase groutlaminate CAUGCT DefasterCAB. DCT Ceramiccovebase groutlaminate CAUGCT DefasterCAB. DCT Ceramiccovebase groutlaminate CAUGCT DefasterCAB. DCT CAB. DCT COVBASE BrickDCT DefasterCAB. DCT DefasterCAB.
	$\begin{array}{c} 29 \\ 30 \\ 06 \\ 07 \\ 00 \\ 00 \\ 22 \\ 00 \\ 22 \\ 00 \\ 23 \\ 00 \\ 24 \\ 00 \\ 25 \\ 00 \\ 25 \\ 00 \\ 25 \\ 00 \\ 25 \\ 00 \\ 27 \\ 00 \\$	Building / Floor / Lo Generator II UI UI Mer Tin Gaer II Generator Ba 41 UI Upper Levie	cation / Material Description / M Room (UL) Geep merator 3" ga 11 ga Wire m-White-wrapp 51 lver-wrapp 11 21 Abeth Fire	Austic Color / Substrate QUANTITY: SF/LF Marador Paint - Gray 11 11 11 11 SKet (black) SKet (black) SKet (bhite/Black) SKet (bhite/Shack) SKet (bhite/Shack)	Category / Friability / Cond. TSI Insulation Miscellaneous Surfacing Friable Non-Friable TSI Insulation Miscellaneous Surfacing Friable Non-Friable TSI Insulation Miscellaneous Surfacing Friable Non-Friable TSI Insulation Miscellaneous Surfacing Friable TSI Insulation Miscellaneous Surfacing Friable TSI Insulation Miscellaneous Surfacing Friable TSI Insulation Miscellaneous Surfacing Friable TSI Insulation Miscellaneous Surfacing Miscellaneous Surfacing	Material Types Zet Gypsum//C CISI Plaster CAB. CMU GCT. Caulk OCT Caulk Control Plaster CAB. Gypsum//C ISI Plaster CAB. CAUL GGT Brick DCT Ceramic Covebase grout Laminate Gypsum//C ISI Plaster CAB. CMU GCT grout Laminate caulk Vinif tile Orypsum//C ISI Plaster CAB. CMU GCT ceramic Covebase grout Laminate caulk Vinif tile S CMU Gypsum//C TSI. Delaster CAB. CMU GCT Brick DCT Ceramic Covebase grout Laminate CANU GCT Deramic Covebase Brick OCT Ceramic Covebase Brick OCT Caulk Vinif tile CANU GCT
	29 30 30 30 30 30 30 30 30 30 30	Building / Floor / Lo Generator 1 UI UI Mer lin Green UI UI Bonerator Res UI UI Upper Lesse Upper Lesse Upper Lesse Upper Lesse	cation / Material Description / M Com (UL) Geep merotor 3" ga "I ga Uives m-White-wrapp Silver-wrapp 11 e/ Abeth Fire cl South Fire	tastic Color / Substrate QUANTITY: SF/LF rerador Paint - Gray 11 11 11 11 SKet (black) SKet (bhite/Black) SKet (bhite/Shack) SKet (bhite/Sh	Category / Friability / Cond.	Material Typs Gypsum/JC CISI Plaster CAB. CMU GCT Brick DCT caulk own tile Gypsum/JC SI Plaster CAB. caulk own tile Gypsum/JC SI Plaster CAB. CMU GCT Brick DCT caulk own tile Gypsum/JC SI Brick DCT caulk own tile Gypsum/JC SI Plaster CAB. CMU GCT Brick DCT ceramic cowbase grout lammate caulk own tile Gypsum/JC TSI Plaster CCAB. grout lammate caulk own tile Gypsum/JC TSI Brick DCT ceramic cowbase grout lammate caulk own tile
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* UL = Upper Level *

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<u>EMAIL RESULTS TO:</u> X. <u>Kanani • Young</u> X. <u>Cienna , lando</u> 	e pbsusa.com n @ pbsua.com	MOLD: □ Tape (Direct) □ Swab (Direct) PCBs: ★ Bulk □ Wipe Oil TURN AROUND TIME: □ Rush □ 4-Hour □ 6-Hour □ 24-Hour □ 48-Hour □ 72-Hour	x 5 days □	ASBESTOS: PLM Bulk Vermiculite LEAD: Pb Soil Pb Soil Pb Dust/Wipe
				COULS -

0045 South Rump Vault/Blue Pump Gasket "TSI Insulation "Gyp 0046 11 11 "Surfacing "Gyp P6 Other Pump Vaults Inaccessib/e "TSI Insulation "Gyp P6 Other Pump Vaults Insulation "Gyp "Gyp Surfacing "TSI Insulation "Gyp Surfacing "TSI Insulation "Gyp Miscellaneous "Gyp Surfacing "	u	Building / Floor / Location / Material Description / Mastic Color / Substrate QUANTITY: SF/LF Friability / Cond.	Sample ID	Codes / ARCHIVE
P6 Other Rump Vautts Inaccessible TSI Insulation Miscellaneou: Cault TSI Insulation Surfacing Riable TSI Insulation Surfacing Riscellaneou: Surfacing Surfacing	□ Gypsum/JC □TSI □ Plaster □CAE □ CMU □ GCT □ Brick □DCT □ ceramic □ coxeba □ grout □ lamina □ caulk □ vinyl ti	Zouth Pump Vault/Blue Pump Gasket	0045	
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□ Non-Friable □ Con	□ Gypsum/JC □TSI □ Plaster □CA □ CMU □GC □ Brick □DC □ ceramic □ coæb □ grout □ lamin □ caulk □ vin/ t	□ TSI Insulation □ Miscellaneous □ Surfacing □ Friable □ Non-Friable		
Image: Section of the section of t	Gypsum/JC ISI Plaster CA CMU GG Brick DDC ceramic coxeb grout lamin caulk vinyl 1	□ TSI Insulation □ Miscellaneous □ Surfacing □ Friable □ Non-Friable		

Relinquished by: Do Manuelo Nelson	Date: 2/23/24	Received by:	Date:
Relinquished by:	Date: 2/23/24	Received by:	Date:
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BULK - TRANSMITTAL CHAIN OF CUSTODY

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Project Address	NOVILLE,	Wishingt	<u>on</u>	Proj. D	Date: <u> </u>	Temp:
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Send Samples to	<u>:</u>				ASBESTOS:	LEAD: D Dust/wipe
□ Lab Cor Inc. Se 7619 6 th Ave	eattle ⊡RJLo NW 350	ee Group (TCLP-RCRA Hochberg Rd.	1 <i>8)</i> 🗆 S 3	GS / Galson – Vegas (PLM only*) 626 Sunset Rd #100	Asbestos Dust Other:	Pb TCLP Pb Paint Chip
Seattle WA 9	8117 Mor	nroeville PA 1514	6 L	as Vegas Nevada 89120	MOLD (Fungi): Tape (Direct)	Swab (Direct)
4321 S. Corb Portland OR	ett Ave. 4500 97239 Ste. 4	ie Asbestos Test) 9 th Ave NE. #300, Seattle, W/	ت ت 4 98105	657 Gaison - Carson CA 20535 Belshaw Ave Carson, CA 90746	Spore Trap (Air) ANALYTICAL PROTOCO	□ Bulk (Spore Ct
					BFL 400x-1000x (MC	DLD)
D NVL Labs Inc.	Ave North 9830	Labs Inc. (Asb/Pb/Mo	id) 🗆 Othe	er:	Flame AAS 7082 (Pb) 🖈	Paint)
Seattle WA 9	Ave. North 9850 8103 Phoe	nix AZ 85044			🗆 EPA 600/R-93/116 (/	Asbestos PLM)
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EMAIL RESULTS TO	<u>D:</u>	TURN	AROUND TIM	1 <u>E:</u>	🗆 TCLP - RCRA-8 Meta	ls
g Justin.Ware@pt g Carson.Unklater	@pbsusa.com			our 🗆 6-Hour Hour 🕷 72-Hour	🗆 TCLP - Lead (EPA SW	/846-1311)
(i Kanani.Young@)	pbsusa.com	ц 24°П п Stan	dard 115-d	av n 7-dav	OTHER ANALYTE:	
g DeAngelo.Nelso	n@pbsusa.com				,	
Kaitiyn.Gamble@	posusa.com Pobsusa.com	d Othe			D	Method:
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Codes / ARCHIVE	Sample ID	Lab ID No.	Dimensions / Quantities SF/LF	Building / Fto	oor / Location / Description / Colo	r / on Substrate
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	1002			Yellow Paint on m	estal - Dam Plath	from - lifting Sixteen
	/002 /003			Yellow Paint on m Branon Paint on not	estal - Dam Plath al - Upper-Leve	from - lifting Sicken Siding
	/002 /003 /004			Yellow Paint on m Brawn Paint on not Cream Paint on M	estal - Dam Plath al - Upper-Leve Vetal - Upper-L	from - lifting sicken Siding evel pipe
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PBS

BULK - TRANSMITT

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Project Name/Scope: 2050	1 Dam DES	Goste	PBS P	roject No. 64598	1.016
Project Address	the Unit	ne n	Proj. D		remp
Client Name/POC:	Proj. Manager: _		S	ampled By:	
Send Samples to:				ASBESTOS: PLM Bulk Asbestos Dust	<u>LEAD:</u> □ Dust/wipe □ Pb TCLP
□ Lab Cor Inc. Seattle □ 7619 6 th Ave. NW Seattle WA 98117	RJ Lee Group (TCLP-RCRA8) 350 Hochberg Rd. Monroeville PA 15146	⊡ SG 36 La	55 / Gaison – Vegas (PLM only*) 526 Sunset Rd #100 as Vegas Nevada 89120	Other: MOLD (Fungi):	Pb Paint Chip
Lab Cor Inc. Portland	Seattle Asbestos Test 4500 9 th Ave NE.	□ SG	GS / Gaison – Carson CA 20535 Belshaw Ave	□ Tape (Direct) □ Spore Trap (Air)	Bulk (Spore Ct
NVL Labs Inc.	Ste. #300, Seattle, WA	98105 0 0 Othe	Carson, CA 90746	ANALYTICAL PROTOC □ BFL 400x-1000x (M □ Flame AAS 7082 (Pl	<u>DL:</u> OLD) b Paint)
Seattle WA 98103	Phoenix AZ 85044	-		EPA 600/R-93/116 Cincinnati Method	(Asbestos PLM) (Asbestos Vermiculite)
EMAIL RESULTS TO: □ Justin.Ware@pbsusa.com	TURN AI		<u>⊧:</u> pur □ 6-Hour		dis N846-1311)
Carson.Linklater@pbsusa.com Manani.Young@pbsusa.com DeAngelo Nelson@pbsusa.com	□ 24-Ho □ Stand	ur 🗆 48-l	Hour 😼 72-Hour	OTHER ANALYTE:	46940-TƏTTİ
Cienna.Landon@pbsusa.com	pbsusa.com	3dar	4	po PCB Bulk	Method: 8082 PCB
Codes / ARCHIVE Sample ID	Lab ID No.	Dimensions / Quantities SF/LF	Building / Fl	oor / Location / Description / Co	lor / on Substrate
2001			Hydraulics Co	ntrol Structure	Gasket/Caulk
2003			Gate Screw h	ousing Hydra	$\frac{1}{1001} - \frac{1}{10000000000000000000000000000000000$
LWT			Venin Clenin	10 - Typonaci	
SPECIAL INSTRUCTIONS	<u> </u>				Stop at first positive layer Stop at first positive sample
Relinquished by;	Drong 12	Date: 2	26/24 Received by:	Sthratlon 1	Weaks Date: 2 29 24

CODES: ARC: Archive — API: Asbestos Pipe Insulation — BLOCK: Mag Block, TSI — BOIL: Boiler Insulation — BUR: Built-up Roofing — BLOWN: Blown in Insulation — CAB: Cement ash board — CMU; concrete masonry unit grout — CAULK: cauking/sealant — CARPMAS: Carpet mastic — CERGRT: Ceramic bleigrout — CG/CT: Concealed grid Ceiling Tie — GCT: Slued Ceiling Tie — COVBAS: Covebase/Mostic — DEBRIS: misc, debris — DUST: misc settled dust — FAB: coarse fiber woven fabric — FELT: Felt TSI heavier fluin paper — FIREDR: File Door — FPP: Fiberglass Reinforced Flatic Panels (mastica) — GASKET: rope textile or ving maturial seal — GL: window glatically while magnetime/maturials GYPJC: Gypsum Joint Compound — SPRAY: agree on ceiling textured poporn — TFEX: toweled textured material — TRANS: Transite AC Pipe GYPSTR: (Sypsum and Plaster — TANK: than insulation fulfy while magnetime/maturitals/ HF: Hard Filtings on Pipe TSI — TSI: Thormal System Insulation — PANT: object textured material — TRANS: Transite AC Pipe GYPSTR: (Sypsum and Plaster — TANK: chain studion fulfy while magnetime/maturital (describe in detail) MF: Hard Filtings on Pipe TSI — TSI: Thormal System Insulation — PANT: object tick flaking primers continged as page — FE SERT toweled on plaster — MASTIC: editeriate-master — MISC: Miscellaneous Materiatal (describe in detail) ME: Mechanical Isolation Clait woven fabric provents valuation — PANT: object tick flaking primers continged as page — FE SERT toweled on plaster — RFFELT; Roofing Felt — SHT: sheet viny flooring — VATAVET; vinytfoor tie — SHINGL: Roof shingle — SEAL: Sealant — RPS: Roof penetration (verte sealant — SFFP: sprayed tit pope) — OFL: door, gravel, soil — TAR: Asphaltic black far — TARP. Asphaltic tar paper, vapor barrier — PAPER: Paner feltimeteriated material — WOVEN: throas weven material — WIRE: wire localiton

 $\mathbf{\dot{\nu}}$

Method of Shipment:

Date:

APPENDIX B

Photograph Log



Photo 1. Fire door frame caulk (south door), gray - contained asbestos.



Photo 2. Fire door frame caulk (north door), gray – contained asbestos.



Photo 3. Merlin generator in generator room – presumed to contain asbestos components.



Photo 4. Silver heat-tempered thermal system pipe insulation in generator room contained asbestos.



Photo 5. Exterior roof penetration caulk, gray/silver, contained asbestos. It should be presumed all penetration locations contain asbestos.



Photo 5. Square socket lamp fixtures are presumed to contain asbestos heat shielding and insulated wire – all square socket lamp fixtures throughout.





Photo 7. PCBs were identified in the hydraulic grease used on the gate lifting shaft in the main upper level of the control structure.



Photo 8. PCBs were identified in the hydraulic grease used on the gate lifting shaft in the main upper level of the control structure and was observed throughout upper level decking and decking areas where staining is present, should be considered contaminated.



Photo 9. Square shaped socket lamps with square covers contain heat shield backing and insulated wiring that should be presumed to contain asbestos. Lead paint was identified throughout the structure and was peeling, chipping, flaking primarily on ceilings of dam platform main level of the structure.



Photo 10. Square shaped socket lamps with square covers contain heat shield backing and insulated wiring that should be presumed to contain asbestos. oval caged light fixtures should be presumed to house mercury-containing HID/bulbs.



APPENDIX C

PLM Bulk Sampling Information

PLM Bulk Sample Inventory PLM Bulk Sample Laboratory Data Sheets PLM Point Count Data PLM Bulk Sample Chain of Custody Documentation



509.942.1600 MAIN = 866.727.0140 FAX = WWW.PBSUSA.COM

Sample						
No.	Material Type	Sample Location	Layer	Lab Description	Lab Result	Lab
0001	Green Metal Beam Paint	South Control Structure	1	Metal Beam Paint, Green	NAD	EMC Labs
0002	Green Metal Beam Paint	South Control Structure	1	Metal Beam Paint, Green	NAD	EMC Labs
0003	Green/Black Wheel Crank	South Control Structure	1	Wheel Crank Paint, Green	NAD	EMC Labs
0004	Cementitious Concrete Mix Structure	North Control Structure	1	Concrete Mix, Gray	NAD	EMC Labs
0005	Cementitious Concrete Mix Structure	South Control Structure	1	Concrete Mix, Gray	NAD	EMC Labs
0006	Cementitious Concrete Mix Structure	Mid Control Structure	1	Concrete Mix, Gray	NAD	EMC Labs
0007	Green Painted Coating on Metal Ceiling Panels	Control Structure	1	Coating on Metal, Green	NAD	EMC Labs
0008	Green Painted Coating on Metal Ceiling Panels	Control Structure	1	Coating on Metal, Green	NAD	EMC Labs
0009	Green Painted Coating on Metal Ceiling Panels	Control Structure	1	Coating on Metal, Green	NAD	EMC Labs
0010	Green/Gray Ligfting Arms	South Control Structure	1	Lifting Amrs, Green	NAD	EMC Labs
0011	Old Screw Boot Debris	Control Structure	1	Screw Boot Debris, Black/Gray	NAD	EMC Labs
0012	Yellow Gasket	Gantron Lifting System	1	Gasket, Yellow	NAD	EMC Labs
0013	Yellow Gasket	Gantron Lifting System	1	Gasket, Yellow	NAD	EMC Labs
0014	Paint	Gantron Lifting System	1	Paint, Yellow	NAD	EMC Labs
0015	Paint	Gantron Lifting System	1	Paint, Yellow	NAD	EMC Labs
0016	Anti-Rust Paint Primer	Spillway Gates - Gate #1	1	Spillway Gates Paint Primer, Green	NAD	EMC Labs
0017	Anti-Rust Paint Primer	Spillway Gates - Gate #2	1	Spillway Gates Paint Primer, Green	NAD	EMC Labs
0018	Anti-Rust Paint Primer	Spillway Gates - Gate #3	1	Spillway Gates Paint Primer, Green	NAD	EMC Labs
0019	Seam Caulk	Currogated Metal Roof	1	Roof Seam Caulk, Brown	NAD	EMC Labs



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Sample						
No.	Material Type	Sample Location	Layer	Lab Description	Lab Result	Lab
0020	Gray/Silver Roof Penetration Caulk	Currogated Metal Roof	1	Roof Penetration Caulk, Silver/Black	3% Chrysotile	EMC Labs
0021	Gray/Silver Roof Penetration Caulk	Currogated Metal Roof	1	Roof Penetration Caulk, Silver/Black	3% Chrysotile	EMC Labs
0022	Gray Generator Paint	Upper Level Generator Room	1	Generator Paint, Lt. Gray	NAD	EMC Labs
0023	Gray Generator Paint	Upper Level Generator Room	1	Generator Paint, Gray	NAD	EMC Labs
0024	Gray Generator Paint	Upper Level Generator Room	1	Generator Paint, Gray	NAD	EMC Labs
0025	Black 3" Gasket	Merlin Generator	1	3" Gasket, Black	NAD	EMC Labs
0026	White/Black Gasket	Merlin Generator	1	3" Gasket, White / Black	NAD	EMC Labs
0027	Wire Insulation	Merlin Generator	1	Wire Insulation, Gray / Black	NAD	EMC Labs
0028	White Wrapped TSI Fiberglass	Generator Room	1	TSI Fiberglass, Lt. Yellow	NAD	EMC Labs
0029	White Wrapped TSI Fiberglass	Generator Room	1	TSI Fiberglass, Lt. Yellow	NAD	EMC Labs
0030	Silver Wrapped HT TSI	Generator Room	1	HT TSI, Yellow	NAD	EMC Labs
		Generator Room	2	Vapor Barrier, Black / Brown	NAD	EMC Labs
0031	Silver Wrapped HT TSI	Generator Room	1	Wrap, Silver	8% Chrysotile	EMC Labs
		Generator Room	2	HT TSI, Yellow	NAD	EMC Labs
		Generator Room	3	Vapor Barrier, Black / Brown	NAD	EMC Labs
0032	Frame Caulk	Upper Level Generator Room North Fire Door	1	Fire Door Frame Caulk, Gray	3% Chrysotile	EMC Labs
0033	Frame Caulk	Upper Level Generator Room South Fire Door	1	Fire Door Frame Caulk, Gray	3% Chrysotile	EMC Labs
0034	Hydraulics Gasket	Upper Level Control Room	1	Hydraulics Gasket, Black	NAD	EMC Labs
0035	Hydraulics Gasket	Upper Level Control Room	1	Hydraulics Gasket, Black	NAD	EMC Labs



509.942.1600 MAIN = 866.727.0140 FAX = WWW.PBSUSA.COM

Sample						
No.	Material Type	Sample Location	Layer	Lab Description	Lab Result	Lab
0036	Conduit Gaskets	Upper Level Control Room	1	Conduit Gasket, Black	NAD	EMC Labs
0037	Conduit Gaskets	Upper Level Control Room	1	Conduit Gasket, Black	NAD	EMC Labs
0038	Lift Gate Screws	Upper Level Control Room	1	Lift gate Screw Gasket, Black	NAD	EMC Labs
0039	Lift Gate Screws	Upper Level Control Room	1	Lift gate Screw Gasket, Black	NAD	EMC Labs
0040	White Fibrious Insulation	Upper Level Control Room	1	Fibrous Insulation, White	NAD	EMC Labs
0041	White Fibrious Insulation	Upper Level Control Room	1	Fibrous Insulation, White	NAD	EMC Labs
0042	White Fibrious Insulation	Upper Level Control Room	1	Fibrous Insulation, White	NAD	EMC Labs
0043	Black Rubber Air Flow Stop	Upper Level Main Room Platform	1	Rubber Airflow Stop, Black	NAD	EMC Labs
0044	Black Rubber Air Flow Stop	Upper Level Main Room Platform	1	Rubber Airflow Stop, Black	NAD	EMC Labs
0045	Blue Pump Gasket	South Pump Vault	1	Pump[Gasket, Gray / Blue	NAD	EMC Labs
0046	Blue Pump Gasket	South Pump Vault	1	Pump[Gasket, Gray / Blue	NAD	EMC Labs

Laboratory Report 0307057

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044 Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Bulk Asbestos Analysis by Polarized Light Microscopy

Client:	PBS ENGINEERING & ENVIRONMENTAL	Job# / P.O. #:	64598.016
Address:	3500 CHAD DR, STE 100	Date Received:	02/28/2024
	EUGENE OR 97408	Date Analyzed:	03/04/2024
Collected:	02/16/2024	Date Reported:	03/04/2024
Project Name:	ZOSEL DAM	Submitted By:	DeANGELO NELSON
Address:		Collected By:	
		EPA Method:	App.E to Sub.E of 40 CFR Part 763 and EPA/600/R-93

			EPAN		Suble of 40 CFIX Fait 703 and E	LF A/000/IX-93
Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbesto Detecte	os Asbestos Tyj d (%)	be Non-Asbestos Constituents	•
0307057-001 0001		Metal Beam Paint, Green	No	None Detected	Carbonates Gypsum Quartz Binder/Filler	100%
0307057-002 0002		Metal Beam Paint, Green	No	None Detected	Carbonates Gypsum Quartz Binder/Filler	100%
0307057-003 0003		Wheel Crank Paint, Green	No	None Detected	Gypsum Quartz Binder/Filler	100%
0307057-004 0004		Concrete Mix, Gray	No	None Detected	Gypsum Carbonates Quartz Binder/Filler	100%
0307057-005 0005		Concrete Mix, Gray	No	None Detected	Gypsum Carbonates Quartz Binder/Filler	100%
0307057-006 0006		Concrete Mix, Gray	No	None Detected	Gypsum Carbonates Quartz Binder/Filler	100%

Laboratory Report 0307057

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044 Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Bulk Asbestos Analysis by Polarized Light Microscopy

Client:	PBS ENGINEERING & ENVIRONMENTAL	Job# / P.O. #:	64598.016
Address:	3500 CHAD DR, STE 100	Date Received:	02/28/2024
	EUGENE OR 97408	Date Analyzed:	03/04/2024
Collected:	02/16/2024	Date Reported:	03/04/2024
Project Name:	ZOSEL DAM	Submitted By:	DeANGELO NELSON
Address:		Collected By:	
		EPA Method:	App.E to Sub.E of 40 CFR Part 763 and EPA/600/R-93

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbesto Detecte	os Asbestos Type d (%)	Non-Asbesto Constituent	os s
0307057-007 0007		Coating On Metal, Green	No	None Detected	Gypsum Quartz Binder/Filler	100%
0307057-008 0008		Coating On Metal, Green	No	None Detected	Gypsum Quartz Binder/Filler	100%
0307057-009 0009		Coating On Metal, Green	No	None Detected	Gypsum Quartz Binder/Filler	100%
0307057-010 0010		Lifting Arms, Green	No	None Detected	Carbonates Quartz Binder/Filler	100%
0307057-011 0011		Screw Boot Debris, Black/ Gray	No	None Detected	Synthetic Fiber Carbonates Quartz Binder/Filler	25% 75%
0307057-012 0012		Gasket, Yellow	No	None Detected	Carbonates Quartz Binder/Filler	100%
0307057-013 0013		Gasket, Yellow	No	None Detected	Carbonates Quartz Binder/Filler	100%

Laboratory Report 0307057

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Bulk Asbestos Analysis by Polarized Light Microscopy

Client:	PBS ENGINEERING & ENVIRONMENTAL	Job# / P.O. #:	64598.016
Address:	3500 CHAD DR, STE 100	Date Received:	02/28/2024
	EUGENE OR 97408	Date Analyzed:	03/04/2024
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Project Name:	ZOSEL DAM	Submitted By:	DeANGELO NELSON
Address:		Collected By:	
		EPA Method:	App.E to Sub.E of 40 CFR Part 763 and EPA/600/R-93

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbesto Detecte	os Asbestos Type ed (%)	Non-Asbestos Constituents	
0307057-014 0014		Paint, Yellow	No	None Detected	Cellulose Fiber Carbonates Quartz	1%
					Binder/Filler	99%
0307057-015 0015		Paint, Yellow	No	None Detected	Cellulose Fiber Carbonates Quartz Binder/Filler	1% 99%
0307057-016 0016		Spillway Gates Paint Primer, Green	No	None Detected	Carbonates Gypsum Quartz Binder/Filler	100%
0307057-017 0017		Spillway Gates Paint Primer, Green	No	None Detected	Carbonates Gypsum Quartz Binder/Filler	100%
0307057-018 0018		Spillway Gates Paint Primer, Green	No	None Detected	Carbonates Gypsum Quartz Binder/Filler	100%
0307057-019 0019		Roof Seam Caulk, Brown	No	None Detected	Cellulose Fiber Carbonates Gypsum Binder/Filler	20% 80%

Laboratory Report 0307057

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Bulk Asbestos Analysis by Polarized Light Microscopy

Client:	PBS ENGINEERING & ENVIRONMENTAL	Job# / P.O. #:	64598.016
Address:	3500 CHAD DR, STE 100	Date Received:	02/28/2024
	EUGENE OR 97408	Date Analyzed:	03/04/2024
Collected:	02/16/2024	Date Reported:	03/04/2024
Project Name:	ZOSEL DAM	Submitted By:	DeANGELO NELSON
Address:		Collected By:	
		EPA Method:	App.E to Sub.E of 40 CFR Part 763 and EPA/600/R-93

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbesto Detecte	d (%)	Туре	Non-Asbestos Constituents	
0307057-020 0020		Roof Penetration Caulk, Silver/ Black	Yes	Chrysotile	3%	Cellulose Fiber Gypsum Quartz Carbonates	5%
						Binder/Filler	92%
0307057-021 0021		Roof Penetration Caulk, Silver/ Black	Yes	Chrysotile	3%	Cellulose Fiber Gypsum Quartz Carbonates Binder/Filler	5% 92%
0307057-022 0022		Generator Paint, Lt. Gray	No	None Detected		Gypsum Binder/Filler	100%
0307057-023 0023		Generator Paint, Gray	No	None Detected		Gypsum Quartz Binder/Filler	100%
0307057-024 0024		Generator Paint, Gray	No	None Detected		Gypsum Quartz Binder/Filler	100%
0307057-025 0025		3" Gasket, Black	No	None Detected		Synthetic Fiber Gypsum Binder/Filler	20% 80%
0307057-026		3" Gasket, White/ Black	No	None Detected		Synthetic Fiber	20%
0026						Gypsum Quartz Binder/Filler	80%

Laboratory Report 0307057

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Bulk Asbestos Analysis by Polarized Light Microscopy

Client:	PBS ENGINEERING & ENVIRONMENTAL	Job# / P.O. #:	64598.016
Address:	3500 CHAD DR, STE 100	Date Received:	02/28/2024
	EUGENE OR 97408	Date Analyzed:	03/04/2024
Collected:	02/16/2024	Date Reported:	03/04/2024
Project Name:	ZOSEL DAM	Submitted By:	DeANGELO NELSON
Address:		Collected By:	
		EPA Method:	App.E to Sub.E of 40 CFR Part 763 and EPA/600/R-93

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbeste Detecte	os Asbestos ed (%)	Туре	Non-Asbesto Constituent	DS S
0307057-027 0027		Wire Insulation, Gray/ Black	No	None Detected		Cellulose Fiber Synthetic Fiber Gypsum Binder/Filler	40% 20% 40%
0307057-028 0028		TSI Fiberglass, Lt. Yellow	No	None Detected		Fibrous Glass Gypsum	97% 3%
0307057-029 0029		TSI Fiberglass, Lt. Yellow	No	None Detected		Fibrous Glass Gypsum	97% 3%
0307057-030 0030	LAYER 1 HT TSI, Yellow	No	None Detected		Fibrous Glass Gypsum	95% 5%	
	LAYER 2 Vapor Barrier, Black/ Brown	No	None Detected		Cellulose Fiber Gypsum Binder/Filler	65% 35%	
0307057-031 0031		LAYER 1 Wrap, Silver	Yes	Chrysotile	8%	Carbonates Gypsum Quartz Binder/Filler	92%
		LAYER 2 HT TSI, Yellow	No	None Detected		Fibrous Glass Gypsum	97% 3%
		LAYER 3 Vapor Barrier, Black/ Brown	No	None Detected		Fibrous Glass Carbonates Binder/Filler	5% 95%
0307057-032 0032		Fire Door Frame Caulk, Gray	Yes	Chrysotile	3%	Carbonates Quartz Binder/Filler	97%

Laboratory Report 0307057

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Bulk Asbestos Analysis by Polarized Light Microscopy

Client:	PBS ENGINEERING & ENVIRONMENTAL	Job# / P.O. #:	64598.016
Address:	3500 CHAD DR, STE 100	Date Received:	02/28/2024
	EUGENE OR 97408	Date Analyzed:	03/04/2024
Collected:	02/16/2024	Date Reported:	03/04/2024
Project Name:	ZOSEL DAM	Submitted By:	DeANGELO NELSON
Address:		Collected By:	
		EPA Method:	App.E to Sub.E of 40 CFR Part 763 and EPA/600/R-93

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbesto Detecte	os Asbestos d (%)	Туре	Non-Asbestos Constituents	
0307057-033 0033		Fire Door Frame Caulk, Gray	Yes	Chrysotile	3%	Carbonates Quartz Binder/Filler	97%
0307057-034 0034		Hydraulics Gasket, Black	No	None Detected		Gypsum Binder/Filler	100%
0307057-035 0035		Hydraulics Gasket, Black	No	None Detected		Gypsum Binder/Filler	100%
0307057-036 0036		Conduit Gasket, Black	No	None Detected		Gypsum Binder/Filler	100%
0307057-037 0037		Conduit Gasket, Black	No	None Detected		Gypsum Binder/Filler	100%
0307057-038 0038		Lift Gate Screw Gasket, Black	No	None Detected		Carbonates Binder/Filler	100%
0307057-039 0039		Lift Gate Screw Gasket, Black	No	None Detected		Carbonates Binder/Filler	100%
0307057-040 0040		Fibrous Insulation, White	No	None Detected		Synthetic Fiber	100%

Laboratory Report 0307057

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044 Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	PBS ENGINEERING & ENVIRONMENTAL	Job# / P.O. #:	64598.016
Address:	3500 CHAD DR, STE 100	Date Received:	02/28/2024
	EUGENE OR 97408	Date Analyzed:	03/04/2024
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Project Name:	ZOSEL DAM	Submitted By:	DeANGELO NELSON
Address:		Collected By:	
		EPA Method:	App.E to Sub.E of 40 CFR Part 763 and EPA/600/R-93

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbesto Detecte	os Asbestos Type d (%)	Non-Asbestos Constituents	
0307057-041 0041		Fibrous Insulation, White	No	None Detected	Synthetic Fiber	100%
0307057-042 0042		Fibrous Insulation, White	No	None Detected	Synthetic Fiber	100%
0307057-043 0043		Rubber Airflow Stop, Black	No	None Detected	Gypsum Binder/Filler	100%
0307057-044 0044		Rubber Airflow Stop, Black	No	None Detected	Gypsum Binder/Filler	100%
0307057-045 0045		Pump Gasket, Gray Blue	No	None Detected	Gypsum Quartz Binder/Filler	100%
0307057-046 0046		Pump Gasket, Gray Blue	No	None Detected	Gypsum Quartz Binder/Filler	100%

Workert

Analyst - Matt Kettler

Signatory - Lab Director - Kurt Kettler

Distinctly stratified, easily separable layers of samples are analyzed as subsamples of the whole and are reported separately for each discernible layer. All analyses are derived from calibrated visual estimate and measured in area percent unless otherwise noted. The report applies to the standards or procedures identified and to the sample(s) tested. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an orgoing quality assurance program unless so noted. This report signature or in connection with our name without special written permission. The report shall not be reproduced except in full, without written approval by our laboratory. The samples not destroyed in testing are related a maximum of sixty days. The laboratory measurement of uncertainty for the test method is approximately less than 1 by area percent. Accredited by the National Institute of Standards and Technology, Voluntary Laboratory Accreditation Program for selected test method(s) for claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Page	of	CH/ 983 (480) 94	AIN OF CUS EMC Labs, Ir 30 S. 51st St., St Phoenix, AZ 8 0-5294 Fax (4	STODY nc. te B-109 5044 80) 893-1726	LAB#: 3 TAT: 5 Rec'd:)7057 Lay B 28AM
MPANY NAME:	PBS Engineering	& Environmer	ıtal	BILL TO:	(If Diffe	rent Location)
dress:	400 Bradley Blvd,	Ste 106	· x			
	Richland, WA 993	52				*
NTACT:	Kanani Young				4. 	
one/Fax:	509-375-7840					· · · · ·
ail:	kanani.young@pbsusa.co	m; wayne.sehman@p	osusa.com; caitling@p	bsusa.com; paige.price@p	obsusa.com, wendy.w	rest@pbsusa.com
ow Acceptin	g: VISA – MASTERC	ARD	Pri	ce Quoted: \$	/ Sample	\$ / Layer
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Rev. 09/01/08 reviewed 5/20/17

	Project N	Name/Scope: 🖌 OSC / 🛛	lan	PBS Proie	ct No. 10 4548	.016
I PF	Revealed a Project A	address Orville	Washington	Proj. Date:	2/16/2	4
	Client Na	ame/POC: Washington	State DES - Le	Ster Client Proj	No	
EMAIL R	<u>ESULTS TO:</u> uni · Young & Pbi	susa.com	MOLD: □ Tape (Direct) □ Swab (Dir PCBs:	rect)	ASBEST ,★ PLM □ Verm	TOS: Bulk niculite
¤	na landon e Ph	SUGG.(67)	Kalk ¤Wipe ¤Oil TURN AROUND TIME: ¤Rush ¤4-Hour ¤ ¤24-Hour ¤48-Hour ¤	6-Hour X(5 days 72-Hour □	LEAD: DPb: DPb: Pb: Pb:	: Soil Paint Chip Dust/Wipe
Codes/ ARCHIVE	Sample ID <i>DOD /</i> <i>DOD /</i> <i>DOD 2</i>	Building / Floor / Location / Contro / Structury	Material Description / Mastic Color / Sut 2 / McHol beam pair	bstrate QUANTITY: SF/LF rf (Green) S f1	Category / Friability / Cond. I SI Insulation Surfacing	Material Types Gypsum/JC p T Plaster D o CMU D Brick D D
Codes/ ARCHIVE	Sample ID 000/ 0002 0003 0005 0006	Building / Floor / Location / Contro / Structur 41 11 Ce 11 Ce 11 Ce 11 Ce 11 Ce 11 Ce 11 Ce 11 Ce 11 Ce 11	Material Description / Mastic Color / Sut (2) / Meta/ beam pain (2) / Meta/ beam pain (3) hu./ crange (Gircum Mentifiaus Concrete orfitions Concrete 1) U	bstrate QUANTITY: SF/LF rf (Green) S rf (Green) S rf (Structore Mix (Structore II Mic	Category / Friability / Cond. Discellaneous Surfacing Friable Discellaneous Surfacing Friable Discellaneous Surfacing Friable Discellaneous Surfacing Friable Surfacing Friable Surfacing Friable	Material Types Gypsum/JC pT Plaster DC o CMU DC grout clami caulk DVinyi Compute Computed o Plaster CC D P
Codes/ ARCHIVE	Sample ID	Building / Floor / Location / Contro / Structur 61 11 S Cantro / Internet 11 Carmon 41 11	Material Description / Mastic Color / Sul Material Description / Material Description / Mate	batrate QUANTITY: SF/LF rf (Green) S rf (Green) S rh S Mix (Sfruct) M Mix (Structore Mix (Structore Mix (Structore Mic Ceiling Mutal Coords U	Category/ Friability/Cond. Surfacing Friability/Cond. Surfacing Friable Surfacing Friable Surfacing Friable Surfacing Friable Surfacing Friable Surfacing Friable Surfacing Friable Non-Friable Surfacing Friable Non-Friable Non-Friable Non-Friable	Material Type Gypsum/JC o T Plaster o C o CMU o C Brick o D Caulk o viny Gypsum/JC o T Plaster o C caulk o viny Gypsum/JC o T o Plaster o C caulk o viny Gypsum/JC o T o Plaster o C o Brick o D caulk o viny Gypsum/JC o T o Plaster o C o CMU o G o Brick o D caulk o viny caulk o viny caulk o viny Co CMU o G o CMU o G
	Sample ID DOD / DOD / DOD / DOD / DOD 2 DOD 2 DOD 3 DOB 4 DOD 5 DOD 6 DOD 6 DOD 7 DOD 8 DOD 8 DOD 8 DOD 7 DOD 8 DOD 7 DOD 8 DOD 7 DOD 8 DOD 7 DOD 8 DOD 7 DOD 6 DOD 7 DOD 6 DOD 7 DOD 6 DOD 7 DOD 6 DOD 7 DOD 7	Building / Floor / Location / Contro / Structur 41 11 W Cle 11 Camu 41 11 Camu 41 Camu 41 Camu 41 Camu 41 Camu 41 Camu 41 Camu 41 Camu	Material Description / Mastic Color / Sut re/Meta/ beam pain "" hu. / crank (Giren mentificus Concrete I u Mainted Canting on u u Arms (Green / Gi	betrate QUANTITY: SF/LF rf (Green) S n/ Black) S Mix (Sfruct) M Mix (Structore 11 Mix (Structore 11 Mix Structore 11 12 Mix Structore 11 12 Mix Structore 11 12 12 14 14 14 14 14 14 14 14 14 14	Category/ Friability/Cond. D'SI Insulation Miscellaneous Surfacing Friable D'Surfacing Friable Surfacing Friable Surfacing Friable Surfacing Friable Surfacing Friable Surfacing Friable Surfacing Friable Surfacing Friable Non-Friable Surfacing Friable Non-Friable Non-Friable Non-Friable Non-Friable Non-Friable Non-Friable Surfacing Friable Non-Friable	Material Type Gypsum/JC all o Gypsum/JC all o CMU a Gypsum/JC all o cranic avin caulk avin caul

Relinquished by: De Ancelo Nelson	Date: 2/23/24	Received by:	Date:
Relinquished by:	Date: 2/23/24	Received by:	6468 Z 8 2024
Sampled By:	Exp:	Analyzed By:	DALAR A & JOAN
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EMAIL RESULTS TO:	Client Name/POC: Washing to	on State OES- Lester Client P	roj. No	·····
EMAIL RESULTS TO:			· · · · · · · · · · · · · · · · · · ·	
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<u>¢ Clenna - lana</u> □	lon a plosusa · com	¢ Bulk □ Wipe □ Oil TURN AROUND TIME: □ Rush □ 4-Hour □ 6-Hour ≰5 days □ 24-Hour □ 48-Hour □ 72-Hour □	LEAD: □ Pb 5. □ Pb P. □ Pb D.	oil aint Chip ust/Wipe
Codes / ARCHIVE Sam	Die ID Building / Floor / Location	A Materiel Description / Mastic Color / Substrate QUANTITY: SF	/LF Category /	Material Type
00/2	Grantron Lif	4 System (Yellow) Grasket 11 Basket	Fradinty/cond. TSI Insulation TSI Insulation Miscellaneous Surfacing Friable Von-Friable	Gypsum/JC Plaster CMU Brick ceramic cov grout plan caulk vin
0014		11 Paint 11 Paint	□ TSI Insulation □ TSI Insulation □ Miscellaneou: □ Surfacing ✓ Friable □ Non-Friable	Gypsum/JC 1 GPlaster 0 GMU 04 Grick 1 Geramic 0 cov grout 0 larr Gaulk 0 vim
0010 0017 0018	Spill-way 6	Antes Paint Primer (Anti Pust	# 1 □ TSI Insulation □ Miscellaneou: □ Surfacing ↓Friable □ Non-Friable	D Gypsum/JC D D Plaster D D CMU D D Brick D O Ceramic D cov D grout D lan D caulk D ving
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inquished by: letralo Nelson	Date: 2/23/24	Received by:	Date:	
Inquished by:	Date: 2/23/24	Received by:	Date ED Z 8 ZUZA	i.
npled By:	Exp:	Analyzed By:	Date AAK U 4 202	4
		14/100		

	Project N	ame/Scope: Zosel	Dam	PBS Project	No. 64598	8.016
PF	Project A	ddress Orville	Washington	Proj. Date:	2/16/2	x¥
	Client Na	me/POC: Washing	for State DES- L	ester Client Proj. N	lo'	
EMAIL RI	<u>SULTS TO:</u>		MOLD: Tape (Direct) Swab 	(Direct)	ASBEST(≫PLM 8 □ Vermi	DS: Bulk culite
X_ <u>Cien</u>	n / an den e post	uga.com	PCBs: _ X Bulk □ Wipe □ Oi _ TURN AROUND TIME: _ □ Rush □ 4-Hour _ □ 24-Hour □ 48-Hour	I □ 6-Hour	LEAD: P b S P b P p Pb D P b D	oil aint Chip ust/Wipe
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	<u>Àr</u>			4.7° *		
NORTH Drawing Not to	Scale					
Codes / ARCHIVE	Sample ID	Building / Floor / Locat	ion / Material Description / Mastic Color	/ Substrate QUANTITY: SF/LF	Category / Friability / Cond.	Materia
· · · · · · · · · · · · · · · · · · ·	0022 0023 0024	Generator Ri	om (UL) Georgeodo	r Paint - Gray	□ TSi Insulation □ Miscellaneous □ Surfacing ▼ Friable □ Non-Friable	© Gypsum/J D Plaster CMU Brick ceramic ceramic grout caulk
	0025	Merlin General	urotor 3" gasket 11 gasket	(black) - (white/Black	TSI Insulation Miscellaneous Surfacing Friable	Gypsum/JC Gypsu
	0029 0029	Generator Rom	Wive In White wrapped	ISWIATION tSI - Fiberglass """"	□ Non-Friable □ TSI Insulation □ Miscellaneou: □ Surfacing ✔ Friable	□ Gypsum/JC □ Plaster □ CMU □ Brick □ ceramic □ grout
·	0030 0031	и и е	Silver-wropped 1	<u>47 75</u> <u>(1</u>	□ Non-Friable □ TSI Insulation □ Miscellaneous □ Surfacing ØFriable □ Non-Friable	□ caulk □ Gypsum/J □ Plaster □ CMU □ Brick □ ceramic □ grout □ caulk
	10022	Ilana Lata	1 Alulto Dog	C P IK	TSI Insulation	🗆 Gypsum/J

Relinquished by: Je mailo Nelson	Date: 2/23/24	Received by:	Date:
Relinquished by:	Date: 2/23/24	Received by:	DELED Z O LVL4
Sampled By:	Exp: /	Analyzed By: 4	DateMAK U 4 2021

* UL = Upper Level *

		PDS Project	· · · · ·	5.010
	S Project	Address Orville, Woshington Proj. Date:_	2/16/2	4
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APPENDIX D

AA Lead Paint Chip Sampling Information

AA Lead Paint Chip Sample Inventory AA Lead Paint Chip Laboratory Data Sheets AA Lead Paint Chip Chain of Custody Documentation



			Result	
Sample No.	Paint Color / Component or Substrate	Sample Location	(ppm)	Lab
1001	Green Paint / Metal	Dam Platform - Lifting Arm	26660	EMC Labs
1002	Yellow Paint / Metal	Dam Paltform - Lifting System	103000	EMC Labs
1003	Brown Paint / Metal	Upper Level Siding	19000	EMC Labs
1004	Cream Paint / Metal	Upper Level Pipe	990	EMC Labs
1005	Gray Paint / Metal	Upper Level - Merlin Generator	2420	EMC Labs



9830 South 51st Street, Suite B-109 / PHOENIX, ARIZONA 85044 / 480-940-5294 or 800-362-3373 / FAX 480-893-1726 emclab@emclabs.com

LEAD (Pb) IN PAINT CHIP SAMPLES EMC SOP METHOD #L01/1 EPA SW-846 METHOD 7420

EMC LAB	#:	L103171		DATE RECEIVE	E D: 02	2/28/2024	
CLIENT:		PBS Engineering	& Environmental	REPORT DATE:		03/04/2024	
				DATE OF ANAL	AYSIS: 0	3/04/2024	
CLIENT A	DDRESS:	400 Bradley Blvd Richland, WA 993	, Ste 106 352	P.O. NO.:			
PROJECT	NAME:	Losel Dam Gates Improvements – Oroville, WA		PROJECT NO.:	6459	8.016	
EMC # L103171-	SAMPLE DATE /24	CLIENT SAMPLE #	DESCRIPTION		REPORTING LIMIT (%Pb by weight)	%Pb BY WEIGHT	
1	02/16	1001	Green Paint on Metal-Dam Platform-	Lifting Arm	0.010	0.266	
2	02/16	1002	Yellow Paint on Metal-Dam Platform-Lifting System		0.010	10.3 #	
3	02/16	1003	Brown Paint On Metal-Upper Level Siding		0.010	1.90 ##	
4	02/16	1004	Cream Paint on Metal-Upper Level Pi	0.010	0.099		
5	02/16	1005	Gray Paint on Metal-Upper Level-Me	rlin Generator	0.010	0.242	

* = Dilution Factor Changed * = Excessive Substrate May Bias Sample Results BRL = Below Reportable Limits # = Very Small Amount Of Sample Submitted, May Affect Result

This report applies to the standards or procedures identified and to the samples tested only. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. Unless otherwise noted, all quality control analyses for the samples noted above were within acceptable limits.

Where it is noted that a sample with excessive substrate was submitted for laboratory analysis, such analysis may be biased. The lead content of such sample may, in actuality, be greater than reported. EMC makes no warranty, express or implied, as to the accuracy of the analysis of samples noted to have been submitted with excessive substrate. Resampling is recommended in such situations to verify original laboratory results. EMC Labs, Inc. (ID 101586) is accredited by the AIHA Laboratory Accreditation Programs, LLC (AIHA-LAP, LLC) in the Environmental Lead accreditation program(s) for Paint, Settled Dust by Wipe, Soil and Airborne Dust Fields of Testing as documented by the Scope of Accreditation Certificate and associated Scope. AIHA-LAP, LLC accreditation complies with the ISO/IEC Standard 17025:2017 requirements. The customer provides the Project number, name, address, sampling date, identification, and description. EMC Labs, Inc. is an EPA Recognized Testing Lab.

These reports are for the exclusive use of the addressed client and are rendered upon the condition that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. Samples not destroyed in testing are retained a maximum of sixty (60) days.

ANALYST:

Jason Thompson

QA COORDINATOR:

Ver. 11/30/08 Revision 08/14/2021

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hone/Fax:	509-375-7840		· · · · · · · · · · · · · · · · · · ·		- 11	<i>2</i> .	
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	RUCTIONS:		(Signature)	Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N			
SPECIAL INSTR Sample Collecto	RUCTIONS:	Date/Time:	(Signature)	Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N		2.12.81	24
SPECIAL INSTR Sample Collecto Relinquished by:	RUCTIONS: r: (Print)		(Signature) Received by: 128/29 Received by: 01	Y N Y N Y N Y N Y N Y N Y N Y N	pate/Time:	2/281	<u>24</u> 124

** In the event of any dispute between the above parties for these services or otherwise, p Arizona and prevailing party will be entitled to attorney's fees and court costs.

Rev. 09/01/08 reviewed 5/20/17



BULK - TRANSMITTAL CHAIN OF CUSTODY

Project Name/Sc	cope: Zasel	Dam Go	tes I	- Mprovermants	PBS Pro	oject No. <u>64598.</u>	016
Project Address	Droville,	Wishingi	bn	·	Proj. Da	te: <u>2/16/24</u>	Temp:
Client Name/PO	: Laster	_ Proj. Manager:	Konal	n Young	Sar	mpled By: Cienna	1/ Komani Y.
Send Samples to	<u>:</u>					ASBESTOS:	/ LEAD: ID Dust/wipe
 Lab Cor Inc. Se 7619 6th Ave. Seattle WA 9 	attle 🗆 RJ Le NW 350 B117 Mor	ee Group <i>(tclp-rcra</i> Hochberg Rd. hroeville PA 15144	a) 🗆 S 3 5 L	GS / Galson – Vegas († 1626 Sunset Rd #100 .as Vegas Nevada 891	PLM only*) .20	Asbestos Dust Other: MOLD (Fungi):	D Pb TCLP Pb Paint Chip
Lab Cor Inc. Po 4321 S. Corbe Portland OR 9	ertland 🗆 Seatt ett Ave. 4500 97239 Ste. a	ie Asbestos Test) 9 th Ave NE. #300, Seattle, WA	□ S 98105	GS / Gaison Carson 20535 Belshaw Ave Carson, CA 90746	CA	Tape (Direct) Spore Trap (Air) ANALYTICAL PROTOCO	□ Swab (Direct) □ Bulk (Spore Ct DL:
 NVL Labs Inc. 4708 Aurora / Seattle WA 98 	¥ EMC I Ave. North 9830 3103 Phoe	Labs Inc. (Asb/Pb/Mo) S. 51st Street nix AZ 85044	ia) 🗆 Oth	er:		☐ BFL 400x-1000x (MC	DLD) Paint) Asbestos PLM) (Asbestos Vermiculite)
EMAIL RESULTS TO	<u>):</u>	TURN /	AROUND TIM	<u>1E:</u>		🗆 TCLP - RCRA-8 Meta	ls
x Justin.Ware@pb ★ Carson Linklater	susa.com @nbsusa.com	🗆 Rush	0 4-H	our 🗆 6-Hour		🗆 TCLP - Lead (EPA SW	/846-1311)
Kanani.Young@p	bsusa.com	□ 24-H	our □ 48-	Hour 🙇 72-Hour		OTHER ANALYTE:	·
DeAngelo.Nelsor	n@pbsusa.com	ם Stan	lard ⊡ 5-d	ay 🗆 7-day		<u>ernenzanzenza</u>	
Kaitlyn.Gamble@	pbsusa.com	🗆 Othe	r				Method
	@pbsusa	.com				₽	
Codes / ARCHIVE	Sample ID	Lab ID No.	Dimensions / Quantities SF/LF	B	uilding / Floor	/ Location / Description / Colo	r / on Subsitate
PAINT (Pb)	1001			Green Paint	on Ma	tal - Dum Pla	tform - lifting arm
	1002			Yellow Paint	on me	tal - Dam Plath	from - lifting Sectem
	1003			Brown Paint on	n nota	1- Neper-Leve	1 Sidine
	1004/			Creans Paint	in Me	tal - Voper-L	evel pipe.
	1005			Gray Paint or	1 Meda	1 - Upper - Leve	1 - Mertin generator
					· · · ·		
					······································		
SPECIAL INS	TRUCTIONS					S	top at first positive layer top at first positive sample
Relinguished by:	Non Al	7	Date: a /	ar /ar I Received	lbv:		1 Date 2/2012,1.4
Analyzed by:	DENGLO IVE.	11/67	Date: 1/1	Sample C	Condition Up	n-Receipt: D Acceptat	ble - Other (explain):
Method of Shipme	<u>~~~/~(</u> ent:		Date:	<u>v/</u> #¥			2/28
CODES: ARC: Archive — API: Asi CAULK: ceuking/sealent FAB: coarse fiber woven GYPJC: Gyosum Joint Cl. HF: Hard Fildings on Pipe MIC: Mechenical Isolator SHINGL: Roof shingle —	bestos Pipe Insulation — BLOCH — CARPMAS: Carpet mastic – fabric — FELT: Fell TSI heavier mpound — SPRAY: spray on ce TSI — TSI : Thermal System in Cloth woven tebric prevents vib SEAL: Sealant — RPS: Roof pe	K: Meg Block TSI — BOIL: E - CERGRT: Ceramic tile/gro than paper — FiREDR: File Milling lextured popcorn — T- sulation — LABTOP: Labors retion — PAINT: older thtck netration (vent sesiant — Sf	laller Insulation — E ut CG/CT: Conce Door FRP: Fibe TEX: troweled textur lary counter top1 Reking primers cont FP: sprayed fibrous	H UR: Built-up Roofing — BLOWN: I laied grid Ceiling Tie — GCT: Glue rgisss Reinforcod Plastic Parels (m drastic Partie TRANS: Transile AC .CT: Lay in ceiling file — LVLCMP- sained asbestos — PLSTER: trowel inte proting — SOIL: sarth, grave	Blown in insulation ad Ceiling Tile	n — CAB: Comant asb board — CMU COVEAS: CovebaseMastic — DEBR ET: rope texile or vinyi material seel Paster — TANK: tank in - MASTIC: adhesiyeAmeshe — MISC: RFFELT: Roofing Feit — SHT: sheet Patilic block (ar — TARP: Asphalic ta	: concrete masanry unit grout — IS: mise, debris — DUST: mise, stilled dust — - GLZ: window glazing compound — sultaion fully white magnesium hard/mable Miscellaneous Materials (describe in detail) inyl flooring — VATVFT: vinyl floor tile — r peper, vapor barler —

APPENDIX E

Bulk PCB Sampling Information

Bulk PCB Sample Inventory Bulk PCB Laboratory Data Sheets Bulk PCB Chain of Custody Documentation March 4, 2024



J. Kanani Patricio-Young **PBS Environmental - Richland** 400 Bradley Blvd. Suite 106 Richland, WA 99352

NVL Batch # 2403625.00

RE: Organics PCB Method: 8082 PCB Aroclors <Bulk> Item Code: ORG-05

Client Project: 64598.016 Location: Zosel Dam DES Gate Repair, 1 14th Ave Oroville, WA

Dear Ms. Patricio-Young,

Enclosed please find test results for samples submitted to our laboratory for analysis. Preparation and analysis of these samples were conducted in accordance with published industry standards and methods specified on the attached analytical report.

The content of this package consists of the following:

-Case Narrative & Definition of Data Qualifiers -Analytical Test Results -Applicable QC Summary -Client Chain-of-Custody (CoC) -NVL Receiving Record

The report is considered highly confidential and will not be released without your approval. Samples are archived for two weeks following analysis. Samples that are not retrieved by the client will be discarded after two weeks.

Thank you for using our laboratory services. If you need further assistance, please contact us at 206-547-0100 or 1-888-NVLLABS.

Sincerely,

Shalini Patel, Manager Metals Lab

Enc.: Sample results



Case Narrative:

The following summarizes samples received on date as shown on the accompanied Chain of custody by NVL Laboratories, Inc. from PBS Environmental - Richland for Project Number 64598.016. Samples were logged in for PCB analysis per client request using both customer sample ID's and laboratory assigned ID's as listed on the Chain-of-Custody (CoC). All samples as received were processed and analyzed within specified turnaround time without any abnormalities and deviations that may affect the analytical results. All quality control requirements were acceptable unless stated otherwise. The conditions of all samples were acceptable at time of receipt and all samples submitted with this batch were analyzed unless stated otherwise on the CoC.

Test Results are reported in milligrams per kilogram (mg/kg) for PCB samples as shown on the analytical reports.



Definition Appendix

Terms	
% Rec	Percent recovery.
<	Below Reporting Limit(RL) or Limit of Quantitation(LoQ) of the instrument.
В	Blank contamination. The recorded results is associated with a contaminated blank.
DF	Dilution Factor
J	The reported concentration is an estimated value because something may be present in the sample that interfered with the analysis.
J1	The reported concentration is an estimated value because the laboratory control sample (LCS) is out of control limits.
J2	The reported concentration is an estimated value because the percent recovery for matrix spike is out of control limits.
J3	The reported concentration is an estimated value because the relative percent difference(RPD) for duplicate analysis is out of control limits.
J4	Percent recovery is outside of established control limits.
LCS	Laboratory Control Sample.
LFS	Laboratory Fortified Spike
Limits	The upper and lower control limits for spike recoveries.
LN	Quality control sample is outside of control limits. This analyte was not detected in the sample.
LOQ	Limit of quantitation(same as RL)
mg/kg	Milligrams per kilogram.
ND	Analyte not detected or below the reporting limit of the instrument or methodology



Definition Appendix

Terms	
PPM	Parts per Million.
QC Batch Group	Quality Control Batch Group. The entity that links analytical results and supporting quality control results.
R	The data are not reliable due to possible contamination or loss of material during preparation or analysis. Re-sampling and reanalysis are necessary for verification.
RL	Reporting Limit. The minimum concentration that can be quantified under routine operating conditions.
RPD	Relative Percent Difference. The relative difference between duplicate results(matrix spike, blank spike, or samples duplicate) expressed as a percentage.
RPD Limit	The maximum RPD allowed for a set of duplicate measurements(see RPD).
SSMI	Surrogate has matrix interference.
Spike Conc	The measured concentration, in sample basis units, of a spiked sample.
SURR-ND	Surrogate was not detected due to matrix interference or dilution.
ug/m³	Micrograms per cubic meter.
ug/100cm ²	Micrograms per hundred square centimeter.

Polychlorinated Biphenyls by Gas Chromatography



Batch #: 2403625.00

Matrix: Bulk Analysis Method: EPA 8082 Preparation Method: EPA 3546 Client Project #: 64598.016 Date Received: 2/29/2024 Samples Received: 4 Samples Analyzed: 4

Client: PBS Environmental - Richland Address: 400 Bradley Blvd. Suite 106 Richland, WA 99352

Attention: Ms. J. Kanani Patricio-Young

Project Location: Zosel Dam DES Gate Repair, 1 14th Ave Oroville, WA

Sample Number	64598 016-2001			Campico / maryzou.	т
Lab Sample ID	24021327		Matrix	Bulk	
Initial Sample Size	0.8654 gm		Units of Result	mg/Kg	
Analyte		RL	Final Resul	t Analysis Date	
Aroclor-1016		1.2	< 1.2	2/29/2024	
Aroclor-1221		1.2	< 1.2	2/29/2024	
Aroclor-1232		1.2	< 1.2	2/29/2024	
Aroclor-1242		1.2	< 1.2	2/29/2024	
Aroclor-1248		1.2	< 1.2	2/29/2024	
Aroclor-1254		1.2	< 1.2	2/29/2024	
Aroclor-1260		1.2	< 1.2	2/29/2024	
PCBs, Total		1.2	< 1.2		

Polychlorinated Biphenyls by Gas Chromatography



Batch #: 2403625.00

Matrix: Bulk Analysis Method: EPA 8082 Preparation Method: EPA 3546 Client Project #: 64598.016 Date Received: 2/29/2024 Samples Received: 4 Samples Analyzed: 4

Client: PBS Environmental - Richland Address: 400 Bradley Blvd. Suite 106 Richland, WA 99352

Attention: Ms. J. Kanani Patricio-Young

Project Location: Zosel Dam DES Gate Repair, 1 14th Ave Oroville, WA

Sample Number Lab Sample ID Initial Sample Size	64598.016-2002 24021328 0.0535 gm		Matrix Units of Result	Bulk mg/Kg	
Analyte		RL	Final Resul	t Analysis Date	
Aroclor-1016		19	< 19	2/29/2024	
Aroclor-1221		19	< 19	2/29/2024	
Aroclor-1232		19	< 19	2/29/2024	
Aroclor-1242		19	< 19	2/29/2024	
Aroclor-1248		19	< 19	2/29/2024	
Aroclor-1254		19	180	2/29/2024	
Aroclor-1260		19	53	2/29/2024	
PCBs, Total		19	230		

Comments: Reporting limit raised due to small sample size.

Polychlorinated Biphenyls by Gas Chromatography



Batch #: 2403625.00

Matrix: Bulk Analysis Method: EPA 8082 Preparation Method: EPA 3546 Client Project #: 64598.016 Date Received: 2/29/2024 Samples Received: 4 Samples Analyzed: 4

Client: PBS Environmental - Richland Address: 400 Bradley Blvd. Suite 106 Richland, WA 99352

Attention: Ms. J. Kanani Patricio-Young

Project Location: Zosel Dam DES Gate Repair, 1 14th Ave Oroville, WA

Sample Number	64598 016-2003				
Lab Sample ID	24021329		Matrix	Bulk	
Initial Sample Size	0.5621 gm		Units of Result	mg/Kg	
Analyte		RL	Final Resu	It Analysis Date	
Aroclor-1016		1.8	< 1.8	2/29/2024	
Aroclor-1221		1.8	< 1.8	2/29/2024	
Aroclor-1232		1.8	< 1.8	2/29/2024	
Aroclor-1242		1.8	< 1.8	2/29/2024	
Aroclor-1248		1.8	< 1.8	2/29/2024	
Aroclor-1254		1.8	< 1.8	2/29/2024	
Aroclor-1260		1.8	< 1.8	2/29/2024	
PCBs, Total		1.8	< 1.8		

Comments: Reporting limit raised due to small sample size.

Polychlorinated Biphenyls by Gas Chromatography



Batch #: 2403625.00

Matrix: Bulk Analysis Method: EPA 8082 Preparation Method: EPA 3546 Client Project #: 64598.016 Date Received: 2/29/2024 Samples Received: 4 Samples Analyzed: 4

Client: PBS Environmental - Richland Address: 400 Bradley Blvd. Suite 106 Richland, WA 99352

Attention: Ms. J. Kanani Patricio-Young

Project Location: Zosel Dam DES Gate Repair, 1 14th Ave Oroville, WA

Samplo Numbor	64598 016-2004			
Lab Sample ID	24021330		Matrix	Bulk
Initial Sample Size	0.1645 gm		Units of Result	mg/Kg
Analyte		RL	Final Resul	t Analysis Date
Aroclor-1016		6.1	< 6.1	2/29/2024
Aroclor-1221		6.1	< 6.1	2/29/2024
Aroclor-1232		6.1	< 6.1	2/29/2024
Aroclor-1242		6.1	< 6.1	2/29/2024
Aroclor-1248		6.1	< 6.1	2/29/2024
Aroclor-1254		6.1	< 6.1	2/29/2024
Aroclor-1260		6.1	< 6.1	2/29/2024
PCBs, Total		6.1	< 6.1	

Comments: Reporting limit raised due to small sample size.

Quality Control Results



Client Project #: 645	98.016			Bato Proj	ch #: 2403 ect Mana	3625.00 Iger: Ms. J.	Kanani		
Preparation Method: I Preparation Date: 2/2	EPA 3546 9/2024			Analysis	Descriptio	Anal on: Polychlori	lysis Metł nated Bip Cł	nod: EP/ phenyls b nromatog	A 8082 by Gas graphy
Blank: 2403625									
Analyte	Blank Results	Units	DF	RL		Control Limi	t		Qualifiers
Aroclor-1016 Aroclor-1221	ND ND	mg/Kg mg/Kg	1 1	1.00 1.00		1.00 1.00			
Aroclor-1232 Aroclor-1242	ND ND	mg/Kg mg/Kg	1 1	1.00 1.00		1.00 1.00			
Aroclor-1248 Aroclor-1254	ND ND	mg/Kg mg/Kg	1 1	1.00 1.00		1.00 1.00			
Aroclor-1260	ND	mg/Kg	1	1.00		1.00			
PCBs, Total Surrogates:	ND	mg/Kg	1		% Rec				
Tetrachloro-m-xylene			1		92	40-140			
Decachlorobiphenyl			1		110	40-140			
Lab Control Sam	ole: LCS 1	254-24036	25						
Bla	ank Spike	Unite	DE	Spike					Qualifiers
Aroclor-1254	18	mg/Kg	1	20.00	% Rec 90	Limits 40-140			Qualifiers
Tetrachloro-m-xylene			1		93	40-140			
Decachlorobiphenyl			1		110	40-140			
Lab Control Sam Lab Control Sam	ole: LCS 1 ole Duplica	016+1260- ate: LCS E	-2403 Dup 1	625 016+1260					
BI	ank Spike			Spike				RPD	
Analyte	Results	Units	DF	Conc	% Rec	Limits	RPD %	Limit	Qualifiers
Aroclor-1016	16 16	mg/Kg	1	20.00 20.00	80 80	40-140 40-140	3	50%	
Aroclor-1260	19 18	mg/Kg	1	20.00 20.00	95 90	40-140 40-140	3	50%	
<i>Surrogates:</i> Tetrachloro-m-xylene			1		97 100	40-140 40-140			
Decachlorobiphenyl			1		110 100	40-140 40-140			

* Recovery outside of control limits

Bench Run No: 2024-0301-1



Surrogate Recovery Summary Report

ClientPBS Environmental - RichlandProject64598.016

Batch # 2403625.00

Customer Sample ID	Lab Sample ID	Analyte	Recovery	Limits
64598.016-2001	24021327	Decachlorobiphenyl	53%	40-140
64598.016-2001	24021327	Tetrachloro-m-xylene	75%	40-140
64598.016-2002	24021328	Decachlorobiphenyl	63%	40-140
64598.016-2002	24021328	Tetrachloro-m-xylene	75%	40-140
64598.016-2003	24021329	Decachlorobiphenyl	46%	40-140
64598.016-2003	24021329	Tetrachloro-m-xylene	79%	40-140
64598.016-2004	24021330	Decachlorobiphenyl	75%	40-140
64598.016-2004	24021330	Tetrachloro-m-xylene	75%	40-140

*Recovery outside of the limits



INITIAL AND CONTINUING CALIBRATION VERIFICATION

				Solution			
Sample	Analyzed	Analyte	Target	Conc	Unit	% Rec	Limits
ICV-1016	2/29/2024	Aroclor-1016	5.0	4.90	ug/mL	98	85-115
ICV-1254	2/29/2024	Aroclor-1254	5.0	5.06	ug/mL	101	85-115
ICV-1260	2/29/2024	Aroclor-1260	5.0	5.30	ug/mL	106	85-115
CCV1-1016	2/29/2024	Aroclor-1016	5.0	5.00	ug/mL	100	80-120
CCV1-1254	2/29/2024	Aroclor-1254	5.0	5.00	ug/mL	100	80-120
CCV1-1260	2/29/2024	Aroclor-1260	5.0	5.00	ug/mL	100	80-120
CCV2-1016	2/29/2024	Aroclor-1016	5.0	5.23	ug/mL	105	80-120
CCV2-1254	2/29/2024	Aroclor-1254	5.0	5.34	ug/mL	107	80-120
CCV2-1260	2/29/2024	Aroclor-1260	5.0	5.09	ug/mL	102	80-120
CCV3-1016	2/29/2024	Aroclor-1016	5.0	5.29	ug/mL	106	80-120
CCV3-1254	2/29/2024	Aroclor-1254	5.0	4.97	ug/mL	99	80-120
CCV3-1260	2/29/2024	Aroclor-1260	5.0	4.92	ug/mL	98	80-120

ORGANICS LABORATORY SERVICES



Rush Samples ____

Company	PBS Environmental - Richland	NVL E	Batch N	umber	240	3625	.00
Address	400 Bradley Blvd. Suite 106	TAT	3 Day	s			AH No
	Richland, WA 99352	Rush	TAT				
Project Manager	Ms. J. Kanani Patricio-Young	Due D)ate	3/5/202	4 т	ime	9:30 AM
Phone	(509) 942-1600	Email	kanar	i.young@	ງ Dpbsເ	isa.cor	n
Cell	(808) 346-1128	Fax	(866)	727-014	0		

Project Name/Number: 64598.016

Project Location: Zosel Dam DES Gate Repair, 1 14th Ave Oroville, WA

Subcategory Quantitative analysis

Item Code ORG-05 8082 PCB Aroclors <Bulk>

Total Number of Samples 4

Lab ID Sample ID Description A/R 1 24021327 А 64598.016-2001 2 24021328 64598.016-2002 А 3 24021329 А 64598.016-2003 4 24021330 64598.016-2004 А

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				
Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Fatima Khan		NVL	2/29/24	930
Analyzed by	Evelyn Ahulu		NVL	2/29/24	
Results Called by					
Faxed Emailed					
Special					
Instructions:					

Date: 2/29/2024 Time: 9:48 AM Entered By: Kelly AuVu

PBS

BULK-TRANSMITT

2403625

Project Name/Scope	Zosel I)am DE	, Got	e repair PBS Pr	oject No. 64598	016
Project Address	14th A	re Orov	ille U)A Proj. Da	ate: <u>416/2024</u>	Temp:
Client Name/POC:		Proj. Manager:		Sa	ampled By:	
Send Samples to:	⊡ Ri Le 350 i	e Group (TCLP-RCRA8)) ⊡ S€ ਤ(SS / Galson – Vegas (PLM only*)	ASBESTOS: PLM Bulk Asbestos Dust Other:	LEAD: □ Dust/wipe □ Pb TCLP □ Pb Paint Chip
Seattle WA 98117	Moni l 🗆 Seattl e. 4500	e Asbestos Test	La D S(35 Vegas Nevada 89120 35 / Galson – Carson CA 20535 Belshaw Ave	MOLD (Fungi): □ Tape (Direct) □ Spore Trap (Air)	□ Swab (Direct) □ Bulk (Spore Ct
Portland OR 97239 NVL Labs Inc. 4708 Aurora Ave. No Seattle WA 98103	Ste. # DEMC L lorth 9830 Phoe	f300, Seattle, WA .abs Inc. (Asb/Pb/Mold S. 51 st Street nix AZ 85044	98105 ∥ □ Othe 	Carson, CA 90746 :r:	ANALYTICAL PROTOCO □ BFL 400x-1000x (MO □ Flame AAS 7082 (Pb □ EPA 600/R-93/116 (# □ Cincinnatì Method (<u>ال:</u> LD) Paint) Asbestos PLM) Asbestos Vermiculite)
EMAIL RESULTS TO:		TURN A	ROUND TIM	<u>(E:</u>	🗆 TCLP - RCRA-8 Metai	is
Justin. ware@pususa.cc Carson.Linklater@pbsus MKanani.Young@pbsusa.	om Isa.com .com	□ Rush □ 24-Hc □ Stand	□ 4-Ho our □ 48-F lard □ 5-de	our □ 6-Hour Hour <mark>10</mark> 72-Hour ay □ 7-day	□ TCLP - Lead (EPA SW OTHER ANALYTE:	846-1311)
Cienna.Landon@pbsusa	a.com a.com @pbsusa	۲ <mark>۵</mark> Other a.com	<u> </u>	4	POB BULK	Method: 8082 PCB
Codes / ARCHIVE	Sample ID	Łab ID No.	Dimensions / Quantities SF/LF	Building / Flo	or / Location / Description / Colo	r / on Substrate
20	101			Hydraulics Cor	that Structure	Gasket/Caulk
20	02			Gate upping or	rising Hydrali	COil - 1
20	04			Merlin Genera	tor Hydradia	01 - 1
Codes/ ARCHIVE 200 200 200	Sample ID 10 1 10 2 10 3 10 4	Lab ID No.	Dimensions / Quantities SF/LF	Building / Flo Hydraulics Con Gate liffing S. Gate Screw he Merlin Genera	or / Location / Description / Color that Structure (haft Hydraw ms ing Hydraeli tor Hydraelic	r/on Substrate Casket/Caulk l. Oril - Upper level Coril - 1 Oril - 1

SPECIAL INSTRUCTIONS Notes:		 Stop at first positive layer Stop at first positive sample
Relinquished by: Kanan Monz May	Date: 2/26/24 Date:	Received by: Han Not Loom Nuclos Date: & 29 24 930 Sample Condition Upon Receipt: Acceptable Other (explain):
Method of Shipment:	Date:	· · · · · · · · · · · · · · · · · · ·

CODES: ARC: Archive — API: Asbestos Pipe Insulation — BLOCK: Mag Block TSI — BOIL: Boiler Insulation — BUR: Built-up Roofing — BLOWN: Blown in Insulation — CAB: Cement asb board — CMU; concrete mastery unit grout — CAULK: cauking/sealant — CARPMAS: Carpet master — CERGRT: Ceramic file/grout — CG/CT: Concealed grid Cailing Tile — GCT: Glued Ceiling Tile — COVBAS: Covebase/Master — DEBRIS: mise. debris — DUST: mise. settled dust — FAB: coates fiber woven fabric — FELT: Felt TSI heavier than paper — FIREDR: Fire Door — FRP: Fiberglass Reinforced Plattic Panels (master) — GASKET: rope taxlife or why material seal — GL2: window graing companied — GYPJC: Gystum Joint Compound — SPRAY: spray on ceiling taxtured popcon — T-TEX: troveled textured material — TRANS: Transite AC Pipe GYPSTR: Gystum and Plaster — TANK: taxk insulation flutfy while magnesium hard/filable HF: Hard Filtings on Fipe TSI — TSI : Thormal System insulation — LABTOP: Laboratory counter top —LCT: Lay in ceiling taile — JUCCMP: Leveling comp. — MASTIC: edites/master — MISC: Miscellaneous Materials (describe in detail) MC: Mechanical Isolation Cloth woven fabric prevents vibration — PAINT: older thick flaking primers produced states — BLSTB; browked on plaster — RFFELT: Roofing Fall — SHT: sheet why flooring — VATVFT: why floor tite — SHINGL: Roof shingle —SELL: Sealant — RFS: Roof penetration (vent sealant — SFFP: sprayed fit **— SFFP**: sprayed fit **— GOVERS**; make and **— TAR**: Asphaltic black far **— TARP**; Asphaltic tar paper, vapor barrier — PAPER: Paper fet/underlayment — WOVEN: fibrous woven material — WIRE: wire location

APPENDIX F

Laboratory Certifications

United States Department of Commerce National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 101926-0

EMC Labs, Inc.

Phoenix, AZ

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2023-07-01 through 2024-06-30

Effective Dates



For the National Voluntary Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

EMC Labs, Inc.

9830 S. 51st St. Suite B-109 Phoenix, AZ 85044-5677 Mr. Kurt A. Kettler Phone: 480-940-5294 Fax: 480-893-1726 Email: kkettler@earthlink.net http://www.emclabs.com

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 101926-0

Bulk Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A01	EPA 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

For the National Voluntary Laboratory Accreditation Program



AIHA Laboratory Accreditation Programs, LLC acknowledges that EMC Labs, Inc. 9830 S. 51st Street, Suite B-109, Phoenix, AZ 85044-5671 Laboratory ID: LAP-101586

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs, LLC (AIHA LAP) accreditation to the ISO/IEC 17025:2017 international standard, General Requirements for the Competence of Testing and Calibration Laboratories in the following:

LABORATORY ACCREDITATION PROGRAMS

\sim	INDUSTRIAL HYGIENE	Accreditation Expires: February 01, 2026
\checkmark	ENVIRONMENTAL LEAD	Accreditation Expires: February 01, 2026
\checkmark	ENVIRONMENTAL MICROBIOLOGY	Accreditation Expires: February 01, 2026
	FOOD	Accreditation Expires:
	UNIQUE SCOPES	Accreditation Expires:
	BE FIELD/MOBILE	Accreditation Expires:

Specific Field(s) of Testing/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2017 and AIHA LAP requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA LAP website (www.aihaaccreditedlabs.org) for the most current Scope.

Cheryf J. Marton

Cheryl O Morton Managing Director, AIHA Laboratory Accreditation Programs, LLC

Date Issued: 02/01/2024

Revision21: 10/24/2023





Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 102063-0

NVL Laboratories, Inc.

Seattle, WA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2023-10-01 through 2024-09-30

Effective Dates



For the National Voluntary Laboratory Accreditation Program

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SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

NVL Laboratories, Inc.

4708 Aurora Avenue N. Seattle, WA 98103 Mr. Nghiep Vi Ly Phone: 206-547-0100 Fax: 206-634-1936 Email: nick.l@nvllabs.com http://www.nvllabs.com

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 102063-0

Bulk Asbestos Analysis

<u>Code</u> 18/A01	Description EPA 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

For the National Voluntary Laboratory Accreditation Program

APPENDIX G

Inspector Certifications

THIS IS TO CERTIFY THAT

JAYLICIA K PATRICIO-YOUNG

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE

for

ONLINE AHERA ASBESTOS INSPECTOR REFRESHER

In accordance with TSCA Title II, Part 763, Subpart E, Appendix C of 40 CFR

06/05/2023

	lacation
OTICE	LOCAHON
course	Location.

Online

Certificate:

IRO-23-8648B

For verification of the authenticity of this certificate contact: PBS Engineering and Environmental Inc. 4412 S Corbett Avenue

Portland, OR 97239



CCB #SRA0615 4-Hr Training

4-Hour Online AHERA Inspector Refresher Training; AHERA is the Asbestos Hazard Emergency Response Act enacting Title II of Toxic Substance Control Act (TSCA)

Expiration Date: 06/05/2024

ander fieldy

Andy Fridley, Instructor

STATE OF WASHINGTON

Department of Commerce

Lead-Based Paint Activities Program

Jaylicia-Jinei Kananimauloa Patricio-Young

Has fulfilled the certification requirements of WAC 365-230 and has been certified to conduct lead based paint activities as a **Risk Assessor**.

Certification # 7905 Issuance Date 08/28/2023 Expiration Date 08/14/2026

THIS IS TO CERTIFY THAT

CIENNA LANDON

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE for

ASBESTOS INSPECTOR / MANAGEMENT PLANNER REFRESHER

In accordance with TSCA Title II, Part 763, Subpart E, Appendix C of 40 CFR

Course Date:	

06/20/2023

Online Training,

Course Location:

Certificate: IMR-23-0507C

For verification of the authenticity of this certificate contact: PBS Engineering and Environmental Inc.

4412 S Corbett Avenue

Portland, OR 97239

503.248.1939



CCB #SRA0615 4-Hr Training

AHERA is the Asbestos Hazard Emergency Response Act enacting Title II of Toxic Substance Control Act (TSCA)

Expiration Date: 06/20/2024

ander Fieldy

Andy Fridley, Instructor

STATE OF WASHINGTON

Department of Commerce

Lead-Based Paint Activities Program

Cienna Molique Landon

Has fulfilled the certification requirements of WAC 365-230 and has been certified to conduct lead based paint activities as a Inspector.

Certification #

8878

Issuance Date 06/14/2023 Expiration Date 04/04/2026