

**South Yuba River Bridge Rehabilitation
Nevada City, CA 95946**



KELLCO Job #1702-17

**Pre-Renovation
Asbestos, Lead, Polychlorinated Biphenyls (PCBs), Total Petroleum Hydrocarbons &
Creosote Inspection Report**

for

**Department Of Parks and Recreation
One Capital Mall
Suite 500
Sacramento, Ca 95813**

March 1, 2017



**Pre-Renovation
Asbestos, Lead, Polychlorinated Biphenyls (PCBs), Total Petroleum
Hydrocarbons & Creosote Inspection Report**

Date: March 1, 2017

KELLCO Job #: 1702-17

Client: Department of Parks and Recreation
One Capital Mall
Suite #500
Sacramento, CA 95813

Location: South Yuba River Bridge Rehabilitation
Nevada City, CA 95946

Date of Inspection: February 13, 2017

Inspectors: Tim Cannard CAC #94-1395, CDPH Lead #764
Derrick Quach CSST #02-3214, CDPH Lead 2280

Lab Reports: Asbestos Labs: 202054
Lead Labs: 202053
Misc. Lab: 1702904

Description Of The Inspected Area: The inspection was conducted on the South Yuba River Bridge in Nevada City, California. Samples were taken of suspect asbestos, lead, PCBs, Total Petroleum Hydrocarbons and Creosote materials.

Background

This is a pre-renovation inspection on a bridge located in Nevada City, California.

Synopsis

Asbestos was **NOT** found in the tested materials.

Lead was found in the following tested materials;

- Soil around bridge

With respect to the soil, the soil samples exhibited relatively low lead concentrations between 2.3 and 28 milligrams per kilogram (mg/kg); below applicable screening levels, including the DTSC-recommended Screening Level (SL) of 80 mg/kg for residential, or unrestricted, reuse. Additionally, based on a review of the USGS 2011 Map, *Reported Historic Asbestos Mines, Historic Asbestos Prospects, and Other Natural Occurrences of Asbestos in California*, the site is not located in an area of known asbestos presence or ultramafic rock outcrops. Therefore, we do not believe testing of soil for naturally occurring asbestos (NOA) is necessary.

In reviewing the test data of the wood samples, total recoverable petroleum hydrocarbons, creosote, and polycyclic aromatic hydrocarbons (PAHs) were detected, but this is consistent with what would be expected for pressure-treated lumber. None of the samples exhibited detectable concentrations of PCBs. We would not expect any special measures would be needed if wooden members from the bridge were to be removed and disposed of at a landfill facility.

About the Inspection

The inspection performed was both visual and tactile. Samples were taken of suspect materials located at the exterior of the survey area.

The inspection was a reasonable attempt to find suspect materials that were hidden within walls, behind structures, in vertical shafts or in areas not normally accessible. If any non-sampled materials are uncovered, these should be submitted for asbestos and/or lead paint analysis.

The following numbering convention was used for this inspection:

LETTER	STANDS FOR	EXAMPLE	MEANING
XXXX-YY	Building DESIGNATION based on information provided on drawings provided to us prior to inspection	YRB-01	Yuba River Bridge – First Sample
F	SYSTEM (W: wall; F: Flooring; C: Ceiling; T: TSI; M: Misc.)	YRB-M-01	Yuba River Bridge – Mortar Sample– First Sample

- **Asbestos Findings**

Asbestos samples were analyzed in Schneider Laboratories Global by Polarized Light Microscopy, the EPA's recommended method. Copies of the full laboratory reports are attached. These valuable reports can be utilized as future reference to determine if a particular material was tested.

Photographs of sampled materials are included. Sample locations are noted on the attached not-to-scale drawing.

The determination of a material to be Asbestos Containing Material (ACM) was made either by direct sampling or by homogeneity with at least one positive sample of the same material.

Tested materials that were **none detected** for asbestos are:

LAB #	FIELD #	FIELD DESCRIPTION	LAYER #	LAYER NAME	LAYER DESCRIPTION
202054-001	YRB-M-01	SE Of Covered Bridge Grey Mortar	1	Mortar	Gray, Granular
202054-002	YRB-M-02	SW Of Covered Bridge Grey Mortar	1	Mortar	Gray, Granular
202054-003	YRB-M-03	NE Of Covered Bridge Grey Mortar	1	Mortar	Gray/Brown, Granular
202054-004	YRB-M-04	NW Of Covered Bridge Grey Mortar	1	Mortar	Gray, Hard

- **Paint Findings**

Lead samples were analyzed by Atomic Absorption in Schneider Laboratories Global. OSHA requires protection of workers from exposure to any lead. Paint should be considered as containing lead if it is the same color as any positive tested material, unless it has specifically been tested and shown to be **none detected** for lead.

The following are materials for which the lead was **none detected**:

LAB #	FIELD #	FIELD DESCRIPTION	LEAD mg/kg (PPM)	LEAD %
202053-001	YRB-Pb-05	Support/Base Tan/Brown Paint	< 49.0	<0.00491

- **Soil Sample Results**

KELCO took a total of 4 soil samples, 1 sample in each corner of the bridge. The soil samples were submitted for lead analysis. The current Housing Urban Development (HUD) guidelines have to be below 1,000 mg/kg (PPM) in all other areas where children are not present.

None of the samples taken were above the HUD guidelines:

LAB #	FIELD #	FIELD DESCRIPTION	LEAD mg/kg (PPM)
1702904-004A	YRB-Pb-01 (SE)	Soil Sample Taken at the South East End of Bridge	2.3
1702904-005A	YRB-Pb-02 (SW)	Soil Sample Taken at the South West End of Bridge	3.3
1702904-006A	YRB-Pb-03 (NE)	Soil Sample Taken at North East End of Bridge	28
1702904-007A	YRB-Pb-04 (NW)	Soil Sample Taken at North West End of Bridge	7.3

- **Total Recoverable Petroleum Hydrocarbons (TRPH)**

KELLCO took three (3) samples of the wood on the bridge. This was done to verify the presence of Total Petroleum Hydrocarbons.

LAB #	FIELD #	FIELD DESCRIPTION	RESULTS mg/kg
1702904-001A	Wood #1 South End of Bridge	Wood Sample Taken From Bridge on the South End	840
1702904-002A	Wood #2 Midway	Wood Sample Taken From the Middle of the Bridge	280
1702904-003A	Wood #3 North End of Bridge	Wood Sample Taken From the North End of the Bridge	1900

In reviewing the test data of the wood samples, total recoverable petroleum hydrocarbons (PAHs) were detected, but this is consistent with what would be expected for pressure-treated lumber. We would not expect any special measures would be needed if wooden members from the bridge were to be removed and disposed of at a landfill facility.

- **Polychlorinated Biphenyls (PCB) Findings**

Polychlorinated Biphenyls samples were analyzed in McCampbell Laboratories, Inc. by SW846 8082 using SLI O17 analytical method. Copies of the full laboratory reports are attached. These valuable reports can be utilized as future reference to determine if a particular material was tested.

Polychlorinated Biphenyls (PCBs) samples were taken from the wood on the bridge. This was done to confirm the presence of PCBs which would require abatement, and is part of the standard series of tests required for hazardous material sampling.

Lab Sample Number:	1702904-001A	1702904-002A	1702904-003A
Client Sample Number:	PCB-01	PCB-02	PCB-03
Mg/kg	Wood #1 South End of Bridge	Wood #2 Midway	Wood #3 North End of Bridge
Units:	µg/kg	µg/kg	µg/kg
Arocor-1016	ND	ND	ND
Aroclor-1221	ND	ND	ND
Aroclor-1232	ND	ND	ND
Aroclor-1242	ND	ND	ND
Aroclor-1248	ND	ND	ND
Aroclor-1254	ND	ND	ND
Aroclor-1260	ND	ND	ND

PCB's were not detected in any of the samples taken.

- **Polynuclear Aromatic Hydrocarbons (PAHs/PNAs) Sample Results**

Polynuclear Aromatic Hydrocarbons samples were taken from the wood on the bridge. This was done to confirm the presence of PAHs/PNAs which would require abatement and is part of the standard series of tests required for hazardous material sampling.

Lab Sample Number:	1702904-001A	1702904-002A	1702904-003A
Client Sample Number:	PCB-01	PCB-02	PCB-03
Mg/kg	Wood #1 South End of Bridge	Wood #2 Midway	Wood #3 North End of Bridge
Units:	µg/kg	µg/kg	µg/kg
Acenaphthene	ND	ND	ND
Acenaphthylene	ND	ND	ND
Anthracene	ND	0.058	ND
Benzo (a) anhracene	ND	0.064	ND
Benzo (a) prene	ND	ND	ND
Benzo (b) fluoranthene	ND	0.12	ND
Benzo (g,h,i) perylene	ND	ND	ND
Benzo (k) Fluoranthene	ND	0.054	ND
Chrysene	ND	0.21	ND
Dibenzo (a,h) anthracene	ND	ND	ND
Fluoranthene	ND	0.55	0.019
Fluorene	ND	ND	ND
Indeno (1,2,3-cd) Pyrene	ND	ND	ND
1-Methylnaphthalene	ND	ND	ND
2-Methylnaphthalene	ND	ND	ND
Naphthalene	ND	ND	ND
Phenanthrene	ND	0.27	0.018
Pyrene	ND	0.26	ND

In reviewing the test data of the wood samples for polycyclic aromatic hydrocarbons (PAHs) were detected, but this is consistent with what would be expected for pressure-treated lumber. We would not

expect any special measures would be needed if wooden members from the bridge were to be removed and disposed of at a landfill facility.

- Creosote Sampling Results

LAB #	FIELD #	FIELD DESCRIPTOIN	RESULT IN mg/kg
1702904-001A	Wood #1 South End of Bridge	Wood taken from South End of Bridge	ND
1702904-002A	Wood #2 Midway	Wood Taken From Middle of Bridge	ND
1702904-003A	Wood #3 North End of Bridge	Wood Taken From North End of Bridge	800

In reviewing the test data of the wood samples, creosote (PAHs) were detected, but this is consistent with what would be expected for pressure-treated lumber. We would not expect any special measures would be needed if wooden members from the bridge were to be removed and disposed of at a landfill facility.

Regulatory Requirements

The Environmental Protection Agency (EPA) defines Asbestos Containing Material as any material that contains greater than 1% asbestos.

Analytical Procedures

- ***POLARIZED LIGHT MICROSCOPY (PLM)***

Bulk samples were analyzed in accordance with U.S. EPA "Test Method for Determination of Asbestos in Bulk Building Materials, 1993," with inclusion of area percent estimates of the sample components. The use of the McCrone Color Dispersion Staining Technique supplements the analysis when considered useful by the analyst. The samples are prepared with refractive immersion oil and are examined under Polarized Light Microscopy (PLM). The accuracy of the visual estimate method is 1%.

As per the standard "...The accuracy in the determination of the presence or absence of asbestos of greater than 1 area percent asbestos is greater than 99%." ASTM Committee D22.05, 1/18/88, *Standard Method of Testing for Asbestos Containing Materials by Polarized Light Microscopy*. If the sample matrix is reduced to minimize non-asbestos components, the detection limit can be mathematically enhanced, based on the amount of material remaining after matrix reduction. This method is called gravimetric reduction. This method involves ashing and chemical dissolution of the sample.

- ***ATOMIC ABSORPTION FOR LEAD***

Paint samples were collected for atomic absorption (AA) analysis. The detection limit for each sample depends upon many factors including the sensitivity of the instrument and the sample size. In the laboratory utilizing flame AA, the detection limit is normally .01% or 100 parts per million (ppm).

KELLCO Qualifications

The KELLCO asbestos inspector is licensed with the State of California Department of Occupational Safety and Health (CAL-OSHA).

The KELLCO lead inspector is licensed by the California Department of Public Health (CDPH)

The following supporting documents are attached to this report:

- Laboratory analytical reports
- Photographs of sample locations
- Floor plan or sketch showing sample locations

Please call KELLCO if there are any questions and/or clarifications regarding this report. We look forward to working with you in the future.

Sincerely,

KELLCO Services, Inc.



Tim C. Cannard CAC #94-1395, CDPH Lead #764
Senior Project Manager

Project No.
P2017.000.340

March 3, 2017

Mr. Tim Cannard
KELLCO Services, Inc.
3137 Diablo Avenue
Hayward, CA 94545

Subject: South Yuba City River Bridge Rehabilitation
Nevada City, California

SUMMARY OF FINDINGS

Reference: KELLCO Services, Inc., Pre-Renovation Asbestos, Lead, Polychlorinated Biphenyls (PCBs), Total Petroleum Hydrocarbons & Creosote Inspection Report, South Yuba River Bridge Rehabilitation, Nevada City, California, March 1, 2017

Dear Mr. Cannard:

As requested, this letter presents a summary of findings of the pre-renovation inspection for the South Yuba City River Bridge in Nevada City, California (Site).

Samples were collected from the wood on the bridge and from the adjacent soil. With respect to the soil, the soil samples exhibited relatively low lead concentrations between 2.3 and 28 milligrams per kilogram (mg/kg); below applicable screening levels, including the DTSC-recommended Screening Level (SL) of 80 mg/kg for residential, or unrestricted, reuse, and within expected naturally occurring background concentrations. Additionally, based on a review of the USGS 2011 Map, *Reported Historic Asbestos Mines, Historic Asbestos Prospects, and Other Natural Occurrences of Asbestos in California*, the site is not located in an area of known asbestos presence or ultramafic rock outcrops. Therefore, we do not believe testing of soil for naturally occurring asbestos (NOA) is necessary.

In reviewing the test data of the wood samples, total recoverable petroleum hydrocarbons, creosote, and polycyclic aromatic hydrocarbons (PAHs) were detected, but this is consistent with what would be expected for pressure-treated lumber. None of the samples exhibited detectable concentrations of PCBs. We would not expect any special measures would be needed if wooden members from the bridge were to be removed and disposed of at a landfill facility.

We concur with the findings of the report prepared by KELLCO March 1, 2017 (Reference).

If you have any questions, please contact us.

Sincerely,

ENGEO Incorporated



Divya Bhargava, PE
db/jaa/bvv



Jeffrey A. Adams, PhD, PE



Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Kellco Services Inc. (193)
Address: 3137 Diablo Avenue
Hayward, CA 94545-2701

Order #:	202053
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Matrix Paint
Received 02/15/17
Analyzed 02/15/17
Reported 02/15/17

Attn:
Project: South Yuba River Bridge Rehab
Location: Nevada City, CA 95946
Number: 1702-17

PO Number:

Sample ID	Cust. Sample ID	Location	Sample Date	Weight			
Parameter		Method		Total µg	% / Wt.	Conc.	RL*
202053-001	YRB-Pb-05	Support/Base Tan/Brwn Pnt	02/13/17	204 mg			
Lead		EPA 7000B / 3050B		<10.0 µg	<0.00491 %	<49.1 mg/kg	49.0 mg/kg

Analyst: OHE
202053-02/15/17 03:59 PM

Abisola O Kasali
Reviewed By: **Abisola Kasali**
Metals Supervisor

Minimum reporting limit: 10.0 µg. Lead Based Paint contains 0.5% lead by weight per Federal statute. The OSHA Lead in Construction Standard, 29 CFR 1926.62, is invoked if any lead is present in the sample. Concentration and *Reporting Limit (RL) based on weights provided by client. All internal QC parameters were met. Unusual sample conditions, if any, are described. Values are reported to three significant figures. PPM = mg/kg | PPB = µg/kg. The test results reported relate only to the samples submitted.

CLIENT

Department of Parks and Recreation
One Capital Mall, Suite #410

Sacramento
CA 95814

JOB SITE

South Yuba River Bridge Rehabilitation Pr
California 49

Nevada City
CA 95946

KELCO Services JOB#1702-17

LAB LOGIN # _____

COLLECTED BY: Derrick

COLLECTED DATE: Feb 13 2017

TURN AROUND TIME: Normal Turnaround 4 8 24 48 5-DAY

RESULTS NEEDED BY _____

CIRCLE TYPE OF BULK ANALYSIS

PLM LEAD PAINT LEAD WIPE NON VIABLE MOLD VIABLE MOLD eCOLI OTHER _____

SAMPLES REC'D _____ ANALYZE TO FIRST POSITIVE YES NO

REPORT RESULTS TO PROJECT MANAGER Tim Cannard


NOTES & COMMENTS: Samples 1-4 are soil

CHAIN OF CUSTODY & SAMPLE SUBMITAL FORM PAGE 1 OF 1

KELCO Services JOB#: **1702-17**
South Yuba River Bridge Rehabilitation Project

FIELD NUMBER	LOCATION (bldg, rm#, area)	COLOR	MATERIAL or SUBSTRATE (ft w/ size, mastic, tjc, etc.)	NOTES: Like condition, damage, quantity, inside what, beneath what? direction in building (N,S,E,W) etc.)
<u>YRB-Pb-05</u>	<u>Support / base</u>	<u>Tan / brown</u>	<u>Paint on metal</u>	

202053 S 1



V: 2021202053
vjones 2/15/2017 9:13:00 AM
UPS 1Z2E2899846 1440507

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
<u>Dut Co</u>	<u>Feb 13.17</u>				



Customer: Kellco Services Inc. (193)
Address: 3137 Diablo Avenue
Hayward, CA 94545-2701

Order #: 202054

Received 02/15/17
Analyzed 02/15/17
Reported 02/15/17

Attn:
Project: South Yuba River Bridge Rehab
Location: Nevada City, CA 95946
Number: 1702-17

PO Number:

Method: EPA 600/R-93/116 & 600/M4-82-020

PLM Analysis

Sample ID	Collected	Cust. ID	Location	Asbestos Fibers	Other Materials
202054-001	02/13/17	YRB-M-01	SE Of Covered Bridge Grey		
Layer 1:	Mortar			None Detected	100% NON FIBROUS MATERIAL
	Gray, Granular				
202054-002	02/13/17	YRB-M-02	SW Of Covered Bridge Grey		
Layer 1:	Mortar			None Detected	100% NON FIBROUS MATERIAL
	Gray, Granular				
202054-003	02/13/17	YRB-M-03	NE Of Covered Bridge Grey		
Layer 1:	Mortar			None Detected	<1% CELLULOSE FIBER
	Gray/Brown, Granular				100% NON FIBROUS MATERIAL
202054-004	02/13/17	YRB-M-04			
Layer 1:	Mortar			None Detected	<1% CELLULOSE FIBER
	Gray, Hard				100% NON FIBROUS MATERIAL

Analyst: Hashim, Reel

Total layers analyzed on order: 4

202054-02/15/17 01:13 PM

Reviewed By: Hind Eldanaf

Microscopy Supervisor

Reporting Limit: 1% Gravimetrically Reduced Reporting Limit: 0.01% PLM analysis is based on Visual Estimation and NESHAP recommends that any asbestos content less than 10 percent be verified by PLM Point Count or TEM Analysis. The EPA recommends that any vermiculite should be treated as Asbestos Containing Material (ACM). This report must not be reproduced except in full with the approval of the laboratory. The test results reported relate only to the samples submitted.

CLIENT
 Department of Parks and Recreation
 One Capital Mall, Suite #410
 Sacramento CA 95814

JOB SITE
 South Yuba River Bridge Rehabilitation Project
 California 49
 Nevada City CA 95946

KELCO Services JOB# **1702-17** LAB LOGIN # _____
 COLLECTED BY: Dunk
 COLLECTED DATE: Feb 13 2017
 TURN AROUND TIME: Normal Turnaround 4 8 24 48 5-DAY
 RESULTS NEEDED BY: _____

CIRCLE TYPE OF BULK ANALYSIS

LEAD PAINT LEAD WIPE NON VIABLE MOLD VIABLE MOLD ECOLI OTHER


SAMPLES REC'D _____ ANALYZE TO FIRST POSITIVE YES NO
 REPORT RESULTS TO PROJECT MANAGER Tim Cannard

NOTES & COMMENTS: _____

CHAIN OF CUSTODY & SAMPLE SUBMITAL FORM PAGE _____ OF _____
 KELCO Services JOB# **1702-17**
 South Yuba River Bridge Rehabilitation Project

FIELD NUMBER	LOCATION (bldg, rm#, area)	COLOR	MATERIAL or SUBSTRATE (ft w/ size, mastic, flc, etc.)	NOTES: Like condition, damage, quantity, inside what, beneath what? direction in building (N,S,E,W) etc.)
YR6-M-01	SE	gray	mortar	
YR5-M-02	SW	gray	mortar	
YR5-M-03	NE	gray	mortar	

202054
 V:202202054
 2/15/2017 9:13:00 AM
 1Z2E289846 1440507
 UPS



S 3

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
<u>Dunk</u>	Feb 13, 17				



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1702904

Report Created for: Kellco Services, Inc.

3137 Diablo Avenue
Hayward, CA 94545

Project Contact: Tim Cannard

Project P.O.: 48-10846P-47

Project Name: 1702-17; South Yuba River Bridge

Project Received: 02/16/2017

Analytical Report reviewed & approved for release on 02/24/2017 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: Kellco Services, Inc.
Project: 1702-17; South Yuba River Bridge
WorkOrder: 1702904

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Glossary of Terms & Qualifier Definitions

Client: Kellco Services, Inc.
Project: 1702-17; South Yuba River Bridge
WorkOrder: 1702904

Analytical Qualifiers

S	surrogate spike recovery outside accepted recovery limits
a1	sample diluted due to matrix interference
a4	reporting limits raised due to the sample's matrix prohibiting a full volume extraction.
c7	surrogate value diluted out of range
h4	sulfuric acid permanganate (EPA 3665) cleanup



Analytical Report

Client: Kellco Services, Inc.
Date Received: 2/16/17 16:15
Date Prepared: 2/23/17
Project: 1702-17; South Yuba River Bridge

WorkOrder: 1702904
Extraction Method: E418.1
Analytical Method: E418.1
Unit: mg/kg

Total Recoverable Petroleum Hydrocarbons with Silica Gel Clean-Up by IR Spectrometry

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Wood #1 S end of bridge	1702904-001A	Solid	02/13/2017 12:30	O&G	134602

Analytes	Result	RL	DF	Date Analyzed
TRPH	840	150	1	02/23/2017 13:15

Surrogates	REC (%)	Limits	Date Analyzed
MAI-SS	101	70-130	02/23/2017 13:15

Analyst(s): HN

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Wood #2 Midway	1702904-002A	Solid	02/13/2017 11:20	O&G	134602

Analytes	Result	RL	DF	Date Analyzed
TRPH	280	150	1	02/23/2017 13:20

Surrogates	REC (%)	Limits	Date Analyzed
MAI-SS	102	70-130	02/23/2017 13:20

Analyst(s): HN

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Wood #3 N end of bridge	1702904-003A	Solid	02/13/2017 10:30	O&G	134602

Analytes	Result	RL	DF	Date Analyzed
TRPH	1900	150	1	02/23/2017 13:25

Surrogates	REC (%)	Limits	Date Analyzed
MAI-SS	104	70-130	02/23/2017 13:25

Analyst(s): HN



Analytical Report

Client: Kellco Services, Inc.
Date Received: 2/16/17 16:15
Date Prepared: 2/16/17
Project: 1702-17; South Yuba River Bridge

WorkOrder: 1702904
Extraction Method: SW3550B
Analytical Method: SW8082
Unit: mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Wood #1 S end of bridge	1702904-001A	Solid	02/13/2017 12:30	GC23	134308

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.50	1	02/16/2017 22:08
Aroclor1221	ND	0.50	1	02/16/2017 22:08
Aroclor1232	ND	0.50	1	02/16/2017 22:08
Aroclor1242	ND	0.50	1	02/16/2017 22:08
Aroclor1248	ND	0.50	1	02/16/2017 22:08
Aroclor1254	ND	0.50	1	02/16/2017 22:08
Aroclor1260	ND	0.50	1	02/16/2017 22:08
PCBs, total	ND	0.50	1	02/16/2017 22:08

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	74	70-130	02/16/2017 22:08

Analyst(s): SS Analytical Comments: a4,h4

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Wood #2 Midway	1702904-002A	Solid	02/13/2017 11:20	GC23	134308

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	50	100	02/17/2017 18:50
Aroclor1221	ND	50	100	02/17/2017 18:50
Aroclor1232	ND	50	100	02/17/2017 18:50
Aroclor1242	ND	50	100	02/17/2017 18:50
Aroclor1248	ND	50	100	02/17/2017 18:50
Aroclor1254	ND	50	100	02/17/2017 18:50
Aroclor1260	ND	50	100	02/17/2017 18:50
PCBs, total	ND	50	100	02/17/2017 18:50

Surrogates	REC (%)	Qualifiers	Limits	Date Analyzed
Decachlorobiphenyl	983	S	70-130	02/17/2017 18:50

Analyst(s): SS Analytical Comments: a1,a4,h4,c7



Analytical Report

Client: Kellco Services, Inc.
Date Received: 2/16/17 16:15
Date Prepared: 2/16/17
Project: 1702-17; South Yuba River Bridge

WorkOrder: 1702904
Extraction Method: SW3550B
Analytical Method: SW8082
Unit: mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Wood #3 N end of bridge	1702904-003A	Solid	02/13/2017 10:30	GC23	134308

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	50	100	02/17/2017 19:03
Aroclor1221	ND	50	100	02/17/2017 19:03
Aroclor1232	ND	50	100	02/17/2017 19:03
Aroclor1242	ND	50	100	02/17/2017 19:03
Aroclor1248	ND	50	100	02/17/2017 19:03
Aroclor1254	ND	50	100	02/17/2017 19:03
Aroclor1260	ND	50	100	02/17/2017 19:03
PCBs, total	ND	50	100	02/17/2017 19:03

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	106	70-130	02/17/2017 19:03

Analyst(s): SS **Analytical Comments:** a1,a4,h4



Analytical Report

Client: Kellco Services, Inc.

WorkOrder: 1702904

Date Received: 2/16/17 16:15

Extraction Method: SW3550B

Date Prepared: 2/17/17

Analytical Method: SW8270C-SIM

Project: 1702-17; South Yuba River Bridge

Unit: mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Wood #1 S end of bridge	1702904-001A	Solid	02/13/2017 12:30	GC35	134390

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.010	1	02/17/2017 17:50
Acenaphthylene	ND	0.010	1	02/17/2017 17:50
Anthracene	ND	0.010	1	02/17/2017 17:50
Benzo (a) anthracene	ND	0.010	1	02/17/2017 17:50
Benzo (a) pyrene	ND	0.010	1	02/17/2017 17:50
Benzo (b) fluoranthene	ND	0.010	1	02/17/2017 17:50
Benzo (g,h,i) perylene	ND	0.010	1	02/17/2017 17:50
Benzo (k) fluoranthene	ND	0.010	1	02/17/2017 17:50
Chrysene	ND	0.010	1	02/17/2017 17:50
Dibenzo (a,h) anthracene	ND	0.010	1	02/17/2017 17:50
Fluoranthene	ND	0.010	1	02/17/2017 17:50
Fluorene	ND	0.010	1	02/17/2017 17:50
Indeno (1,2,3-cd) pyrene	ND	0.010	1	02/17/2017 17:50
1-Methylnaphthalene	ND	0.010	1	02/17/2017 17:50
2-Methylnaphthalene	ND	0.010	1	02/17/2017 17:50
Naphthalene	ND	0.010	1	02/17/2017 17:50
Phenanthrene	ND	0.010	1	02/17/2017 17:50
Pyrene	ND	0.010	1	02/17/2017 17:50

Surrogates	REC (%)	Limits	Date Analyzed
1-Fluoronaphthalene	77	30-130	02/17/2017 17:50
2-Fluorobiphenyl	73	30-130	02/17/2017 17:50

Analyst(s): REB



Analytical Report

Client: Kellco Services, Inc.
Date Received: 2/16/17 16:15
Date Prepared: 2/17/17
Project: 1702-17; South Yuba River Bridge

WorkOrder: 1702904
Extraction Method: SW3550B
Analytical Method: SW8270C-SIM
Unit: mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Wood #2 Midway	1702904-002A	Solid	02/13/2017 11:20	GC35	134390

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.020	2	02/21/2017 20:14
Acenaphthylene	ND	0.020	2	02/21/2017 20:14
Anthracene	0.058	0.020	2	02/21/2017 20:14
Benzo (a) anthracene	0.064	0.020	2	02/21/2017 20:14
Benzo (a) pyrene	ND	0.020	2	02/21/2017 20:14
Benzo (b) fluoranthene	0.12	0.020	2	02/21/2017 20:14
Benzo (g,h,i) perylene	ND	0.020	2	02/21/2017 20:14
Benzo (k) fluoranthene	0.054	0.020	2	02/21/2017 20:14
Chrysene	0.21	0.020	2	02/21/2017 20:14
Dibenzo (a,h) anthracene	ND	0.020	2	02/21/2017 20:14
Fluoranthene	0.55	0.020	2	02/21/2017 20:14
Fluorene	ND	0.020	2	02/21/2017 20:14
Indeno (1,2,3-cd) pyrene	ND	0.020	2	02/21/2017 20:14
1-Methylnaphthalene	ND	0.020	2	02/21/2017 20:14
2-Methylnaphthalene	ND	0.020	2	02/21/2017 20:14
Naphthalene	ND	0.020	2	02/21/2017 20:14
Phenanthrene	0.27	0.020	2	02/21/2017 20:14
Pyrene	0.26	0.020	2	02/21/2017 20:14
Surrogates	REC (%)	Limits		
1-Fluoronaphthalene	81	30-130		02/21/2017 20:14
2-Fluorobiphenyl	77	30-130		02/21/2017 20:14

Analyst(s): REB



Analytical Report

Client: Kellco Services, Inc.
Date Received: 2/16/17 16:15
Date Prepared: 2/17/17
Project: 1702-17; South Yuba River Bridge

WorkOrder: 1702904
Extraction Method: SW3550B
Analytical Method: SW8270C-SIM
Unit: mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Wood #3 N end of bridge	1702904-003A	Solid	02/13/2017 10:30	GC35	134390

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.010	1	02/17/2017 18:40
Acenaphthylene	ND	0.010	1	02/17/2017 18:40
Anthracene	ND	0.010	1	02/17/2017 18:40
Benzo (a) anthracene	ND	0.010	1	02/17/2017 18:40
Benzo (a) pyrene	ND	0.010	1	02/17/2017 18:40
Benzo (b) fluoranthene	ND	0.010	1	02/17/2017 18:40
Benzo (g,h,i) perylene	ND	0.010	1	02/17/2017 18:40
Benzo (k) fluoranthene	ND	0.010	1	02/17/2017 18:40
Chrysene	ND	0.010	1	02/17/2017 18:40
Dibenzo (a,h) anthracene	ND	0.010	1	02/17/2017 18:40
Fluoranthene	0.019	0.010	1	02/17/2017 18:40
Fluorene	ND	0.010	1	02/17/2017 18:40
Indeno (1,2,3-cd) pyrene	ND	0.010	1	02/17/2017 18:40
1-Methylnaphthalene	ND	0.010	1	02/17/2017 18:40
2-Methylnaphthalene	ND	0.010	1	02/17/2017 18:40
Naphthalene	ND	0.010	1	02/17/2017 18:40
Phenanthrene	0.018	0.010	1	02/17/2017 18:40
Pyrene	ND	0.010	1	02/17/2017 18:40
Surrogates	REC (%)	Limits		
1-Fluoronaphthalene	81	30-130		02/17/2017 18:40
2-Fluorobiphenyl	80	30-130		02/17/2017 18:40

Analyst(s): REB



Analytical Report

Client: Kellco Services, Inc.
Date Received: 2/16/17 16:15
Date Prepared: 2/23/17
Project: 1702-17; South Yuba River Bridge

WorkOrder: 1702904
Extraction Method: E9071B
Analytical Method: E9071B
Unit: mg/Kg

Hexane Extractable Material with Silica Gel Treatment

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Wood #1 S end of bridge	1702904-001A	Solid	02/13/2017 12:30	O&G	134619

Analytes	Result	RL	DF	Date Analyzed
SGT-HEM	ND	750	1	02/24/2017 10:15

Analyst(s): HN

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Wood #2 Midway	1702904-002A	Solid	02/13/2017 11:20	O&G	134619

Analytes	Result	RL	DF	Date Analyzed
SGT-HEM	ND	750	1	02/24/2017 10:20

Analyst(s): HN

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Wood #3 N end of bridge	1702904-003A	Solid	02/13/2017 10:30	O&G	134619

Analytes	Result	RL	DF	Date Analyzed
SGT-HEM	800	750	1	02/24/2017 10:25

Analyst(s): HN

 Angela Rydelius, Lab Manager



Analytical Report

Client: Kellco Services, Inc.
Date Received: 2/16/17 16:15
Date Prepared: 2/16/17
Project: 1702-17; South Yuba River Bridge

WorkOrder: 1702904
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
YRB-Pb-01 (SE)	1702904-004A	Soil	02/13/2017 13:10	ICP-MS3	134323

Analytes	Result	RL	DF	Date Analyzed
Lead	2.3	0.50	1	02/18/2017 16:51
Surrogates	REC (%)	Limits		
Terbium	107	70-130		02/18/2017 16:51

Analyst(s): DVH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
YRB-Pb-02 (SW)	1702904-005A	Soil	02/13/2017 13:10	ICP-MS3	134323

Analytes	Result	RL	DF	Date Analyzed
Lead	3.3	0.50	1	02/18/2017 16:57
Surrogates	REC (%)	Limits		
Terbium	111	70-130		02/18/2017 16:57

Analyst(s): DVH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
YRB-Pb-03 (NE)	1702904-006A	Soil	02/13/2017 13:10	ICP-MS3	134323

Analytes	Result	RL	DF	Date Analyzed
Lead	28	0.50	1	02/18/2017 17:03
Surrogates	REC (%)	Limits		
Terbium	108	70-130		02/18/2017 17:03

Analyst(s): DVH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
YRB-Pb-04 (NW)	1702904-007A	Soil	02/13/2017 13:10	ICP-MS3	134323

Analytes	Result	RL	DF	Date Analyzed
Lead	7.3	0.50	1	02/18/2017 17:09
Surrogates	REC (%)	Limits		
Terbium	110	70-130		02/18/2017 17:09

Analyst(s): DVH



Quality Control Report

Client: Kellco Services, Inc.
Date Prepared: 2/23/17
Date Analyzed: 2/23/17
Instrument: O&G
Matrix: Soil
Project: 1702-17; South Yuba River Bridge

WorkOrder: 1702904
BatchID: 134602
Extraction Method: E418.1
Analytical Method: E418.1
Unit: mg/kg
Sample ID: MB/LCS-134602
 1702A72-001AMS/MSD

QC Summary Report for E418.1

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TRPH	ND	145	15	156	-	93	70-130
Surrogate Recovery							
MAI-SS	152.7	134		150	102	90	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TRPH	146	148	156	ND	93	95	70-130	1.72	20
Surrogate Recovery									
MAI-SS	136	137	150		91	91	70-130	0	20



Quality Control Report

Client: Kellco Services, Inc.	WorkOrder: 1702904
Date Prepared: 2/16/17	BatchID: 134308
Date Analyzed: 2/17/17	Extraction Method: SW3550B
Instrument: GC23	Analytical Method: SW8082
Matrix: Soil	Unit: mg/kg
Project: 1702-17; South Yuba River Bridge	Sample ID: MB/LCS/LCSD-134308

QC Summary Report for SW8082

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Aroclor1016	ND	0.050	-	-	-
Aroclor1221	ND	0.050	-	-	-
Aroclor1232	ND	0.050	-	-	-
Aroclor1242	ND	0.050	-	-	-
Aroclor1248	ND	0.050	-	-	-
Aroclor1254	ND	0.050	-	-	-
Aroclor1260	ND	0.050	-	-	-
PCBs, total	ND	0.050	-	-	-

Surrogate Recovery

Decachlorobiphenyl	0.04588	0.050	92	70-130
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Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Aroclor1016	0.140	0.146	0.15	94	97	70-130	3.52	20
Aroclor1260	0.146	0.145	0.15	98	96	70-130	1.14	20

Surrogate Recovery

Decachlorobiphenyl	0.0455	0.0454	0.050	91	91	70-130	0	20
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Quality Control Report

Client: Kellco Services, Inc.
Date Prepared: 2/17/17
Date Analyzed: 2/17/17
Instrument: GC35
Matrix: Soil
Project: 1702-17; South Yuba River Bridge

WorkOrder: 1702904
BatchID: 134390
Extraction Method: SW3550B
Analytical Method: SW8270C-SIM
Unit: mg/kg
Sample ID: MB/LCS-134390
 1702887-100AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	-	0.010	-	-	-	-
Acenaphthylene	ND	-	0.010	-	-	-	-
Anthracene	ND	-	0.010	-	-	-	-
Benzo (a) anthracene	ND	-	0.010	-	-	-	-
Benzo (a) pyrene	ND	0.125	0.010	0.20	-	62	23-129
Benzo (b) fluoranthene	ND	-	0.010	-	-	-	-
Benzo (g,h,i) perylene	ND	-	0.010	-	-	-	-
Benzo (k) fluoranthene	ND	-	0.010	-	-	-	-
Chrysene	ND	0.110	0.010	0.20	-	55	38-104
Dibenzo (a,h) anthracene	ND	-	0.010	-	-	-	-
Fluoranthene	ND	-	0.010	-	-	-	-
Fluorene	ND	-	0.010	-	-	-	-
Indeno (1,2,3-cd) pyrene	ND	-	0.010	-	-	-	-
1-Methylnaphthalene	ND	0.165	0.010	0.20	-	82	59-106
2-Methylnaphthalene	ND	0.156	0.010	0.20	-	78	54-108
Naphthalene	ND	-	0.010	-	-	-	-
Phenanthrene	ND	0.129	0.010	0.20	-	65	48-107
Pyrene	ND	0.113	0.010	0.20	-	57	40-104

Surrogate Recovery

1-Fluoronaphthalene	0.3363	0.355		0.50	67	71	63-123
2-Fluorobiphenyl	0.3037	0.327		0.50	61	65	55-127

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Benzo (a) pyrene	NR	NR		23	NR	NR	-	NR	
Chrysene	NR	NR		27	NR	NR	-	NR	
1-Methylnaphthalene	NR	NR		37	NR	NR	-	NR	
2-Methylnaphthalene	NR	NR		41	NR	NR	-	NR	
Phenanthrene	NR	NR		130	NR	NR	-	NR	
Pyrene	NR	NR		61	NR	NR	-	NR	

Surrogate Recovery

1-Fluoronaphthalene	NR	NR			NR	NR	-	NR	
2-Fluorobiphenyl	NR	NR			NR	NR	-	NR	



Quality Control Report

Client:	Kellco Services, Inc.	WorkOrder:	1702904
Date Prepared:	2/23/17	BatchID:	134619
Date Analyzed:	2/24/17	Extraction Method:	E9071B
Instrument:	O&G	Analytical Method:	E9071B
Matrix:	Soil	Unit:	mg/Kg
Project:	1702-17; South Yuba River Bridge	Sample ID:	MB/LCS/LCSD-134619

QC Summary Report for E9071B

Analyte	MB Result	RL			
SGT-HEM	ND	50	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
SGT-HEM	1690	1630	2000	85	82	70-130	3.61	30

 QA/QC Officer



Quality Control Report

Client: Kellco Services, Inc.
Date Prepared: 2/16/17
Date Analyzed: 2/17/17
Instrument: ICP-MS3
Matrix: Soil
Project: 1702-17; South Yuba River Bridge

WorkOrder: 1702904
BatchID: 134323
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg
Sample ID: MB/LCS-134323
 1702893-001AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	50.1	0.50	50	-	100	75-125
Surrogate Recovery							
Terbium	516.4	536		500	103	107	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	52.7	54.3	50	3.639	98	101	75-125	2.88	20
Surrogate Recovery									
Terbium	522	544	500		104	109	70-130	3.98	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Lead	4.60	3.639	26.4	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1702904

ClientCode: KSH

WaterTrax
 WriteOn
 EDF
 Excel
 EQUIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Tim Cannard
Kellco Services, Inc.
3137 Diablo Avenue
Hayward, CA 94545
(510) 786-9751 FAX: (510) 786-9625

Email: mailbox3137@kellco.com
cc/3rd Party:
PO: 48-10846P-47
ProjectNo: 1702-17; South Yuba River Bridge

Bill to:

Accounts Payable
Kellco Services, Inc.
3137 Diablo Avenue
Hayward, CA 94545

Requested TAT: 5 days;

Date Received: 02/16/2017

Date Logged: 02/16/2017

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1702904-001	Wood #1 S end of bridge	Solid	2/13/2017 12:30	<input type="checkbox"/>	A	A	A	A								
1702904-002	Wood #2 Midway	Solid	2/13/2017 11:20	<input type="checkbox"/>	A	A	A	A								
1702904-003	Wood #3 N end of bridge	Solid	2/13/2017 10:30	<input type="checkbox"/>	A	A	A	A								
1702904-004	YRB-Pb-01 (SE)	Soil	2/13/2017 13:10	<input type="checkbox"/>					A							
1702904-005	YRB-Pb-02 (SW)	Soil	2/13/2017 13:10	<input type="checkbox"/>					A							
1702904-006	YRB-Pb-03 (NE)	Soil	2/13/2017 13:10	<input type="checkbox"/>					A							
1702904-007	YRB-Pb-04 (NW)	Soil	2/13/2017 13:10	<input type="checkbox"/>					A							

Test Legend:

1	418_SG_S	2	8082_PCB_S	3	8270_PNA_S	4	9071B_SG_S
5	PBMS_TTLC_S	6		7		8	
9		10		11		12	

Prepared by: Briana Cutino

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: KELLCO SERVICES, INC.

Project: 1702-17; South Yuba River Bridge

Work Order: 1702904

Client Contact: Tim Cannard

QC Level: LEVEL 2

Contact's Email: mailbox3137@kellco.com

Comments:

Date Logged: 2/16/2017

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut		
1702904-001A	Wood #1 S end of bridge	Solid	E9071B (O&G w/ S.G. Clean-up)	1	16OZ GJ	<input type="checkbox"/>	2/13/2017 12:30	5 days		<input type="checkbox"/>			
			SW8270C (PAHs/PNAs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8082 (PCBs Only)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			E418.1 (TRPH w/ S.G. Clean-Up)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1702904-002A	Wood #2 Midway	Solid	E9071B (O&G w/ S.G. Clean-up)	1	16OZ GJ	<input type="checkbox"/>	2/13/2017 11:20	5 days		<input type="checkbox"/>			
			SW8270C (PAHs/PNAs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8082 (PCBs Only)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			E418.1 (TRPH w/ S.G. Clean-Up)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1702904-003A	Wood #3 N end of bridge	Solid	E9071B (O&G w/ S.G. Clean-up)	1	16OZ GJ	<input type="checkbox"/>	2/13/2017 10:30	5 days		<input type="checkbox"/>			
			SW8270C (PAHs/PNAs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8082 (PCBs Only)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			E418.1 (TRPH w/ S.G. Clean-Up)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1702904-004A	YRB-Pb-01 (SE)	Soil	SW6020 (Lead)	1	16OZ GJ	<input type="checkbox"/>	2/13/2017 13:10	5 days		<input type="checkbox"/>			
1702904-005A	YRB-Pb-02 (SW)	Soil	SW6020 (Lead)	1	16OZ GJ	<input type="checkbox"/>	2/13/2017 13:10	5 days		<input type="checkbox"/>			
1702904-006A	YRB-Pb-03 (NE)	Soil	SW6020 (Lead)	1	16OZ GJ	<input type="checkbox"/>	2/13/2017 13:10	5 days		<input type="checkbox"/>			
1702904-007A	YRB-Pb-04 (NW)	Soil	SW6020 (Lead)	1	16OZ GJ	<input type="checkbox"/>	2/13/2017 13:10	5 days		<input type="checkbox"/>			

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1702904



McCAMPBELL ANALYTICAL, INC.
 1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701
 Telephone: (877) 252-9262 / Fax: (925) 252-9269
 www.mccampbell.com main@mccampbell.com

CHAIN OF CUSTODY RECORD										
Turn Around Time: 1 Day Rush			2 Day Rush		3 Day Rush		STD	●	Quote #	
J-Flag / MDL		ESL		Cleanup Approved			Bottle Order #			
Delivery Format: GeoTracker EDF			●	PDF	EDD	Write On (DW)		EQuIS		

Report To: Tim Cannard Bill To: KELLCO Services, Inc.
 Company: KELLCO Services, Inc., 3137 Diablo Avenue, Hayward, CA 94545
 Email: mailbox3137@kellco.co
 Alt Email: Tele: 510-786-9751
 Project Name/#: 1702-17
 Project Location: South Yuba River Bridge PO # 48-10846P-47
 Sampler Signature: *Duff Ouel*

Analysis Requested

SAMPLE ID Location / Field Point	Sampling		#Containers	Matrix	Preservative
	Date	Time			
Wood #1 S end of bridge	Feb 13, 17	1230		Wood	none
Wood #2 Midway	4	1120		Wood	
Wood #3 N end of bridge	4	1030		Wood	
YRB - Pb - 01 (SE)	Feb 13, 17	1310		Soil	
YRB - Pb - 02 (SW)	4	4		Soil	
YRB - Pb - 03 (NE)	4	4		Soil	
YRB - Pb - 04 (NW)				Soil	

BTEX & TPH as Gas (8021/8015) MTBE	TPH as Diesel (8015) + Motor Oil Without Silica Gel	TPH as Diesel (8015) + Motor Oil With Silica Gel	Total OH & Grease (1664 / 9071) Without Silica Gel	Total Petroleum Hydrocarbons - OH & Grease (1664 / 9071) With Silica Gel	Total Petroleum Hydrocarbons (418.1) With Silica Gel	EPA 505/608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's; Aroclors only	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)*	Metals (200.8 / 6020)	Baylands Requirements	Lab to filter sample for dissolved metals analysis	Creosote	Lead
				●	●		●								●	
				●	●		●								●	
				●	●		●								●	
																X
																X
																X
																X

MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

* If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8.						Comments / Instructions	
Please provide an adequate volume of sample. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.							
Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	Time
<i>Derrick Ouel</i>		Feb 13, 17	1500	<i>[Signature]</i>		2/16/17	1105
<i>[Signature]</i>		2/16/17	1615	<i>[Signature]</i>		2/16	1615

hold remain soil for future analysis of ARB + BS

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other
 Preservative Code: 1=4°C 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=ZnOAc/NaOH 7=None Temp _____ °C Initials _____



Sample Receipt Checklist

Client Name: Kellco Services, Inc.
Project Name: 1702-17; South Yuba River Bridge
WorkOrder No: 1702904 Matrix: Soil/Solid
Carrier: Benjamin Yslas (MAI Courier)

Date and Time Received: 2/16/2017 16:15
Date Logged: 2/16/2017
Received by: Briana Cutino
Logged by: Briana Cutino

Chain of Custody (COC) Information

Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Sample IDs noted by Client on COC? Yes [checked] No []
Date and Time of collection noted by Client on COC? Yes [checked] No []
Sampler's name noted on COC? Yes [checked] No []

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes [] No [] NA [checked]
Shipping container/cooler in good condition? Yes [checked] No []
Samples in proper containers/bottles? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []

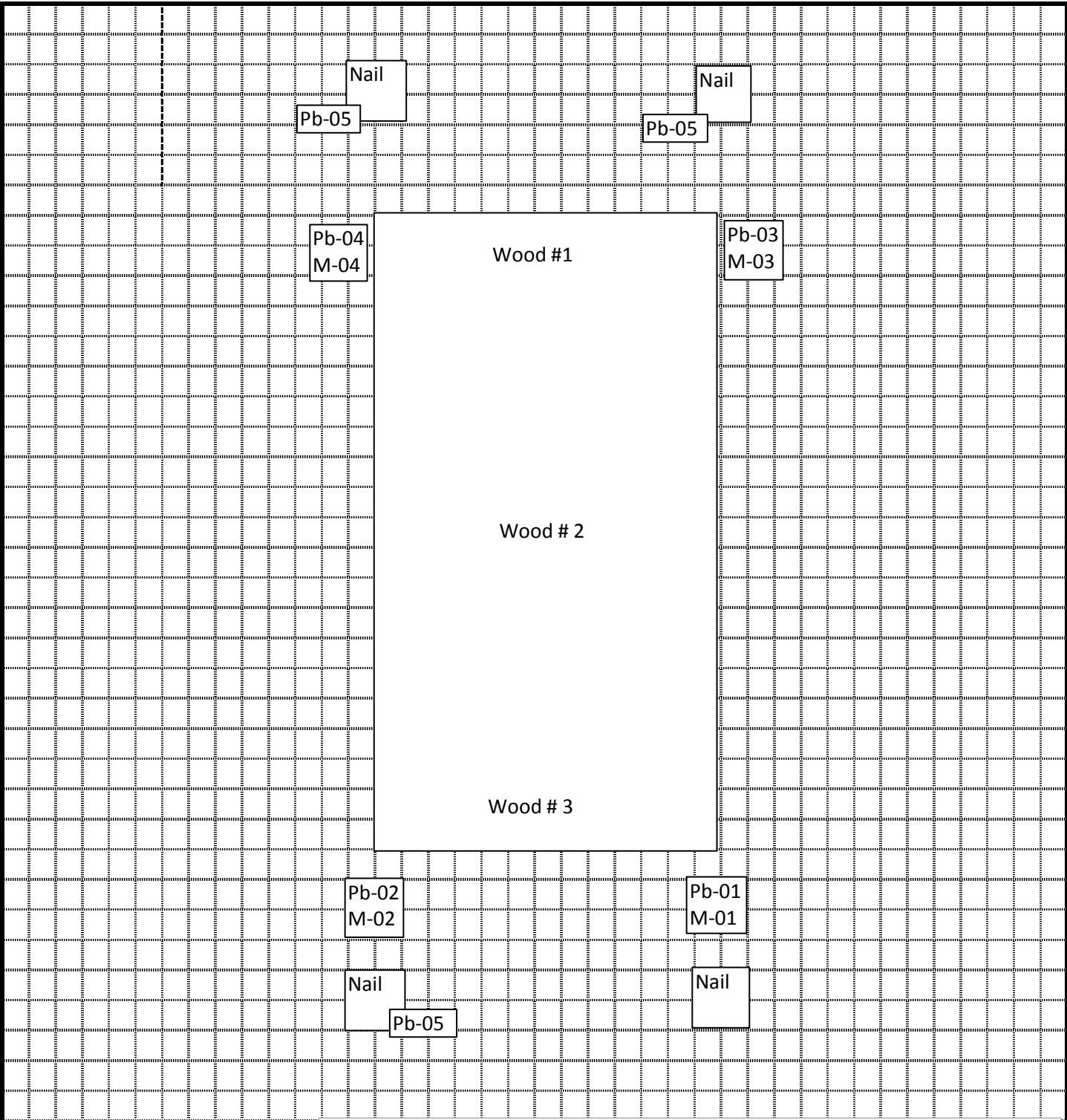
Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes [checked] No [] NA []
Sample/Temp Blank temperature Temp: 6.9°C NA []
Water - VOA vials have zero headspace / no bubbles? Yes [] No [] NA [checked]
Sample labels checked for correct preservation? Yes [checked] No []
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes [] No [] NA [checked]
Samples Received on Ice? Yes [checked] No []
(Ice Type: WET ICE)

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522? Yes [] No [] NA [checked]
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539? Yes [] No [] NA [checked]

Comments:



Legend

Wood samples #1-3

Pb- soils samples for lead (1-4)

Pb-05 is paint samples for lead on new construction material

M- mortar samples

Site Plan

Yuba River Bridge

CA

Kellco Services, Inc.

3137 Diablo Ave.

Hayward CA 94545

510-786-9751

Kellco Job # 1702-17

Date: Feb. 13, 17

Figure

Drawn By: DQ

Scale: NTS

Reviewed By:

1









