WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Orders:	7I26012	**Report Date:**	10/16/2017
		Received Date:	9/26/2017
Project:	South SWP	**Turnaround Time:**	Normal
		Phones:	(916) 375-6008
		Fax:	-
Attn:	Sid Fong	**P.O. #:**	4600010998
Client:	CA Department of Water Resources 1450 Riverbank Road West Sacramento, CA 95605	**Billing Code:**	

DoD-ELAP #L2457 ● ELAP-CA #1132 ● EPA-UCMR #CA00211 ● Guam-EPA #17-008R ● HW-DOH # ● ISO 17025 #L2457.01 ● LACSD #10143 ● NELAP-OR #4047 ● NJ-DEP #CA015 ● SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

Dear Sid Fong,

Enclosed are the results of analyses for samples received 9/26/17 with the Chain-of-Custody document. The samples were received in good condition, at 3.9 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:

Brandon Gee
Operations Manager/Senior PM

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CA Department of Water Resources
1450 Riverbank Road
West Sacramento, CA 95605

Project Number: South SWP

Project Manager: Sid Fong

Reported:
10/16/2017 17:43

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
BL0917B0414	Charles Vertucci, Ben Onanian	7I26012-01	Water	09/25/17 11:10	
BL0917B0415	Charles Vertucci, Ben Onanian	7I26012-02	Water	09/25/17 12:00	
BL0917B0416	Charles Vertucci, Ben Onanian	7I26012-03	Water	09/25/17 13:00	

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CA Department of Water Resources
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West Sacramento, CA 95605

Project Number: South SWP

Project Manager: Sid Fong

Reported:
10/16/2017 17:43

Sample Results

Sample: BL0917B0414
7I26012-01 (Water)

Sampled: 09/25/17 11:10 by Charles Vertucci, Ben Onanian

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods						
Method: SM 4500S2-D	**Batch ID:** W7I1516	**Prepared:** 09/26/17 18:03				**Analyst:** nat
Sulfide, Soluble	ND	0.10	mg/l	1	09/26/17 18:21	
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W7J0191	**Prepared:** 09/26/17 19:43				**Analyst:** aln
Mercury, Total	**1.3**	0.50	ng/l	1	10/04/17 16:16	
Organophosphorus Pesticides by EPA Method 8141B						
Method: EPA 8141B	**Batch ID:** W7I1694	**Prepared:** 09/29/17 08:40				**Analyst:** smr
Chlorpyrifos	ND	0.10	ug/l	1	10/07/17 07:11	
Diazinon	ND	0.10	ug/l	1	10/07/17 07:11	
Surrogate(s)						
Triphenyl phosphate	*165%*	*Conc: 1.65*	*10-181*		*10/07/17 07:11*	

Sample: BL0917B0415
7I26012-02 (Water)

Sampled: 09/25/17 12:00 by Charles Vertucci, Ben Onanian

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods						
Method: SM 4500S2-D	**Batch ID:** W7I1516	**Prepared:** 09/26/17 18:03				**Analyst:** nat
Sulfide, Soluble	ND	0.10	mg/l	1	09/26/17 18:21	
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W7J0191	**Prepared:** 09/26/17 19:43				**Analyst:** aln
Mercury, Total	**0.99**	0.50	ng/l	1	10/04/17 16:16	
Organophosphorus Pesticides by EPA Method 8141B						
Method: EPA 8141B	**Batch ID:** W7I1694	**Prepared:** 09/29/17 08:40				**Analyst:** smr
Chlorpyrifos	ND	0.10	ug/l	1	10/07/17 07:39	
Diazinon	ND	0.10	ug/l	1	10/07/17 07:39	
Surrogate(s)						
Triphenyl phosphate	*158%*	*Conc: 1.58*	*10-181*		*10/07/17 07:39*	

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Project Number: South SWP

Project Manager: Sid Fong

Reported:
10/16/2017 17:43

Sample Results

(Continued)

Sample: BL0917B0416

Sampled: 09/25/17 13:00 by Charles Vertucci, Ben Onanian

7I26012-03 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods						
Method: SM 4500S2-D	**Batch ID:** W7I1516	**Prepared:** 09/26/17 18:03				**Analyst:** nat
Sulfide, Soluble	ND	0.10	mg/l	1	09/26/17 18:21	
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W7J0191	**Prepared:** 09/26/17 19:43				**Analyst:** aln
Mercury, Total	**1.4**	0.50	ng/l	1	10/04/17 16:16	
Organophosphorus Pesticides by EPA Method 8141B						
Method: EPA 8141B	**Batch ID:** W7I1694	**Prepared:** 09/29/17 08:40				**Analyst:** smr
Chlorpyrifos	ND	0.10	ug/l	1	10/07/17 08:08	
Diazinon	ND	0.10	ug/l	1	10/07/17 08:08	
Surrogate(s)						
Triphenyl phosphate	*138%*	*Conc: 1.38*	*10-181*		*10/07/17 08:08*	

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Project Number: South SWP

Project Manager: Sid Fong

Reported:
10/16/2017 17:43

Quality Control Results

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I1516 - SM 4500S2-D										
Blank (W7I1516-BLK1)				**Prepared & Analyzed: 09/26/17**						
Sulfide, Soluble	ND	0.10	mg/l							
LCS (W7I1516-BS1)				**Prepared & Analyzed: 09/26/17**						
Sulfide, Soluble	0.10	0.10	mg/l				95-105			
Duplicate (W7I1516-DUP1)	**Source: 7I22102-02**			**Prepared & Analyzed: 09/26/17**						
Sulfide, Soluble	ND	0.10	mg/l		ND				20	

Mercury - Low Level by CVAFS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7J0191 - EPA 1631E										
Blank (W7J0191-BLK1)				**Prepared & Analyzed: 10/04/17**						
Mercury, Total	ND	0.50	ng/l							
LCS (W7J0191-BS1)				**Prepared & Analyzed: 10/04/17**						
Mercury, Total	5.42	0.50	ng/l	5.00		108	85-115			
Matrix Spike (W7J0191-MS1)	**Source: 7I26015-01**			**Prepared & Analyzed: 10/04/17**						
Mercury, Total	5.72	0.50	ng/l	5.00	0.775	99	75-125			
Matrix Spike (W7J0191-MS2)	**Source: 7I26015-02**			**Prepared & Analyzed: 10/04/17**						
Mercury, Total	6.63	0.50	ng/l	5.00	1.33	106	75-125			
Matrix Spike Dup (W7J0191-MSD1)	**Source: 7I26015-01**			**Prepared & Analyzed: 10/04/17**						
Mercury, Total	5.97	0.50	ng/l	5.00	0.775	104	75-125	4	20	
Matrix Spike Dup (W7J0191-MSD2)	**Source: 7I26015-02**			**Prepared & Analyzed: 10/04/17**						
Mercury, Total	6.78	0.50	ng/l	5.00	1.33	109	75-125	2	20	

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10/16/2017 17:43

Quality Control Results

(Continued)

Organophosphorus Pesticides by EPA Method 8141B

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I1694 - EPA 8141B										
Blank (W7I1694-BLK1)				**Prepared: 09/29/17 Analyzed: 10/07/17**						
Chlorpyrifos	ND	0.10	ug/l							
Diazinon	ND	0.10	ug/l							
Surrogate(s)										
Triphenyl phosphate		*1.43*	*ug/l*	*1.00*		*143*	*10-181*			
LCS (W7I1694-BS1)				**Prepared: 09/29/17 Analyzed: 10/07/17**						
Chlorpyrifos	0.933	0.10	ug/l	1.00		93	35-149			
Diazinon	0.840	0.10	ug/l	1.00		84	37-145			
Surrogate(s)										
Triphenyl phosphate		*1.66*	*ug/l*	*1.00*		*166*	*10-181*			
LCS Dup (W7I1694-BSD1)				**Prepared: 09/29/17 Analyzed: 10/07/17**						
Chlorpyrifos	0.789	0.10	ug/l	1.00		79	35-149	17	25	
Diazinon	0.701	0.10	ug/l	1.00		70	37-145	18	25	
Surrogate(s)										
Triphenyl phosphate		*1.46*	*ug/l*	*1.00*		*146*	*10-181*			

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Reported:
10/16/2017 17:43

Notes and Definitions

Item	Definition
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Source	Sample that was matrix spiked or duplicated.
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) and Detection Limit for Reporting (DLR)
MDA	Minimum Detectable Activity
NR	Not Reportable
TIC	Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.
An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB)
All results are expressed on wet weight basis unless otherwise specified.
All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS 002.

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Certificate of Analysis

FINAL REPORT

Work Orders:	7I27017	**Report Date:**	10/11/2017
		Received Date:	9/27/2017
Project:	South SWP	**Turnaround Time:**	Normal
		Phones:	(916) 375-6008
		Fax:	-
Attn:	Sid Fong	**P.O. #:**	4600010998
Client:	CA Department of Water Resources 1450 Riverbank Road West Sacramento, CA 95605	**Billing Code:**	

DoD-ELAP #L2457 ● ELAP-CA #1132 ● EPA-UCMR #CA00211 ● Guam-EPA #17-008R ● HW-DOH # ● ISO 17025 #L2457.01 ● LACSD #10143 ● NELAP-OR #4047 ● NJ-DEP #CA015 ● SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

Dear Sid Fong,

Enclosed are the results of analyses for samples received 9/27/17 with the Chain-of-Custody document. The samples were received in good condition, at 5.7 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:

Brandon Gee
Operations Manager/Senior PM

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1450 Riverbank Road
West Sacramento, CA 95605

Project Number: South SWP

Project Manager: Sid Fong

Reported:
10/11/2017 13:35

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
BL0917B0404	Charles Vertucci, Ben Onanian	7I27017-01	Water	09/26/17 10:45	
BL0917B0405	Charles Vertucci, Ben Onanian	7I27017-02	Water	09/26/17 11:30	
BL0917B0406	Charles Vertucci, Ben Onanian	7I27017-03	Water	09/26/17 12:45	
BL0917B0407	Charles Vertucci, Ben Onanian	7I27017-04	Water	09/26/17 12:20	

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Project Number: South SWP

Project Manager: Sid Fong

Reported:
10/11/2017 13:35

Sample Results

Sample: BL0917B0404
7I27017-01 (Water)

Sampled: 09/26/17 10:45 by Charles Vertucci, Ben Onanian

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods						
Method: SM 4500S2-D	**Batch ID:** W7I1600	**Prepared:** 09/27/17 18:28				**Analyst:** nat
Sulfide, Soluble	ND	0.10	mg/l	1	09/27/17 18:57	
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W7J0191	**Prepared:** 09/27/17 19:00				**Analyst:** aln
Mercury, Total	**0.82**	0.50	ng/l	1	10/04/17 16:16	
Organophosphorus Pesticides by EPA Method 8141B						
Method: EPA 8141B	**Batch ID:** W7I1694	**Prepared:** 09/29/17 08:40				**Analyst:** smr
Chlorpyrifos	ND	0.10	ug/l	1	10/07/17 08:37	
Diazinon	ND	0.10	ug/l	1	10/07/17 08:37	
Surrogate(s)						
Triphenyl phosphate	*147%*	*Conc: 1.63*	*10-181*		*10/07/17 08:37*	

Sample: BL0917B0405
7I27017-02 (Water)

Sampled: 09/26/17 11:30 by Charles Vertucci, Ben Onanian

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods						
Method: SM 4500S2-D	**Batch ID:** W7I1600	**Prepared:** 09/27/17 18:28				**Analyst:** nat
Sulfide, Soluble	ND	0.10	mg/l	1	09/27/17 18:57	
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W7J0191	**Prepared:** 09/27/17 19:00				**Analyst:** aln
Mercury, Total	**0.92**	0.50	ng/l	1	10/04/17 16:16	
Organophosphorus Pesticides by EPA Method 8141B						
Method: EPA 8141B	**Batch ID:** W7I1694	**Prepared:** 09/29/17 08:40				**Analyst:** smr
Chlorpyrifos	ND	0.10	ug/l	1	10/07/17 09:05	
Diazinon	ND	0.10	ug/l	1	10/07/17 09:05	
Surrogate(s)						
Triphenyl phosphate	*118%*	*Conc: 1.18*	*10-181*		*10/07/17 09:05*	

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Project Number: South SWP

Project Manager: Sid Fong

Reported:
10/11/2017 13:35

Sample Results

(Continued)

Sample: BL0917B0406
7I27017-03 (Water)

Sampled: 09/26/17 12:45 by Charles Vertucci, Ben Onanian

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods						
Method: SM 4500S2-D	**Batch ID:** W7I1739	**Prepared:** 09/29/17 14:37				**Analyst:** nat
Sulfide, Soluble	ND	0.10	mg/l	1	09/29/17 15:50	
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W7J0191	**Prepared:** 09/27/17 19:00				**Analyst:** aln
Mercury, Total	**0.78**	0.50	ng/l	1	10/04/17 16:16	
Organophosphorus Pesticides by EPA Method 8141B						
Method: EPA 8141B	**Batch ID:** W7I1694	**Prepared:** 09/29/17 08:40				**Analyst:** smr
Chlorpyrifos	ND	0.10	ug/l	1	10/07/17 09:34	
Diazinon	ND	0.10	ug/l	1	10/07/17 09:34	
Surrogate(s)						
Triphenyl phosphate	*153%*	*Conc: 1.70*	*10-181*		*10/07/17 09:34*	

Sample: BL0917B0407
7I27017-04 (Water)

Sampled: 09/26/17 12:20 by Charles Vertucci, Ben Onanian

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods						
Method: SM 4500S2-D	**Batch ID:** W7I1739	**Prepared:** 09/29/17 14:37				**Analyst:** nat
Sulfide, Soluble	ND	0.10	mg/l	1	09/29/17 15:50	
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W7J0191	**Prepared:** 09/27/17 19:00				**Analyst:** aln
Mercury, Total	**0.94**	0.50	ng/l	1	10/04/17 16:16	
Organophosphorus Pesticides by EPA Method 8141B						
Method: EPA 8141B	**Batch ID:** W7I1694	**Prepared:** 09/29/17 08:40				**Analyst:** smr
Chlorpyrifos	ND	0.10	ug/l	1	10/07/17 10:03	
Diazinon	ND	0.10	ug/l	1	10/07/17 10:03	
Surrogate(s)						
Triphenyl phosphate	*147%*	*Conc: 1.47*	*10-181*		*10/07/17 10:03*	

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Project Number: South SWP

Project Manager: Sid Fong

Reported:
10/11/2017 13:35

Quality Control Results

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I1600 - SM 4500S2-D										
Blank (W7I1600-BLK1)				**Prepared & Analyzed: 09/27/17**						
Sulfide, Soluble	ND	0.10	mg/l							
LCS (W7I1600-BS1)				**Prepared & Analyzed: 09/27/17**						
Sulfide, Soluble	0.10	0.10	mg/l				95-105			
Duplicate (W7I1600-DUP1)	**Source: 7I27017-01**			**Prepared & Analyzed: 09/27/17**						
Sulfide, Soluble	ND	0.10	mg/l		ND				20	
Batch: W7I1739 - SM 4500S2-D										
Blank (W7I1739-BLK1)				**Prepared & Analyzed: 09/29/17**						
Sulfide, Soluble	ND	0.10	mg/l							
LCS (W7I1739-BS1)				**Prepared & Analyzed: 09/29/17**						
Sulfide, Soluble	0.10	0.10	mg/l				95-105			
Duplicate (W7I1739-DUP1)	**Source: 7I27017-03**			**Prepared & Analyzed: 09/29/17**						
Sulfide, Soluble	ND	0.10	mg/l		ND				20	
Duplicate (W7I1739-DUP2)	**Source: 7I27017-04**			**Prepared & Analyzed: 09/29/17**						
Sulfide, Soluble	ND	0.10	mg/l		ND				20	

Mercury - Low Level by CVAFS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7J0191 - EPA 1631E										
Blank (W7J0191-BLK1)				**Prepared & Analyzed: 10/04/17**						
Mercury, Total	ND	0.50	ng/l							
LCS (W7J0191-BS1)				**Prepared & Analyzed: 10/04/17**						
Mercury, Total	5.42	0.50	ng/l	5.00		108	85-115			
Matrix Spike (W7J0191-MS1)	**Source: 7I26015-01**			**Prepared & Analyzed: 10/04/17**						
Mercury, Total	5.72	0.50	ng/l	5.00	0.775	99	75-125			
Matrix Spike (W7J0191-MS2)	**Source: 7I26015-02**			**Prepared & Analyzed: 10/04/17**						
Mercury, Total	6.63	0.50	ng/l	5.00	1.33	106	75-125			
Matrix Spike Dup (W7J0191-MSD1)	**Source: 7I26015-01**			**Prepared & Analyzed: 10/04/17**						
Mercury, Total	5.97	0.50	ng/l	5.00	0.775	104	75-125	4	20	
Matrix Spike Dup (W7J0191-MSD2)	**Source: 7I26015-02**			**Prepared & Analyzed: 10/04/17**						
Mercury, Total	6.78	0.50	ng/l	5.00	1.33	109	75-125	2	20	

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Project Manager: Sid Fong

Reported:
10/11/2017 13:35

Quality Control Results

(Continued)

Organophosphorus Pesticides by EPA Method 8141B

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I1694 - EPA 8141B										
Blank (W7I1694-BLK1)				**Prepared: 09/29/17 Analyzed: 10/07/17**						
Chlorpyrifos	ND	0.10	ug/l							
Diazinon	ND	0.10	ug/l							
Surrogate(s)										
Triphenyl phosphate		*1.43*	*ug/l*	*1.00*		*143*	*10-181*			
LCS (W7I1694-BS1)				**Prepared: 09/29/17 Analyzed: 10/07/17**						
Chlorpyrifos	0.933	0.10	ug/l	1.00		93	35-149			
Diazinon	0.840	0.10	ug/l	1.00		84	37-145			
Surrogate(s)										
Triphenyl phosphate		*1.66*	*ug/l*	*1.00*		*166*	*10-181*			
LCS Dup (W7I1694-BSD1)				**Prepared: 09/29/17 Analyzed: 10/07/17**						
Chlorpyrifos	0.789	0.10	ug/l	1.00		79	35-149	17	25	
Diazinon	0.701	0.10	ug/l	1.00		70	37-145	18	25	
Surrogate(s)										
Triphenyl phosphate		*1.46*	*ug/l*	*1.00*		*146*	*10-181*			

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CA Department of Water Resources
1450 Riverbank Road
West Sacramento, CA 95605

Project Number: South SWP

Project Manager: Sid Fong

Reported:
10/11/2017 13:35

Notes and Definitions

Item	Definition
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Source	Sample that was matrix spiked or duplicated.
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) and Detection Limit for Reporting (DLR)
MDA	Minimum Detectable Activity
NR	Not Reportable
TIC	Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.
An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB)
All results are expressed on wet weight basis unless otherwise specified.
All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS 002.

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Certificate of Analysis

FINAL REPORT

Work Orders:	7I28012	**Report Date:**	10/20/2017
		Received Date:	9/28/2017
Project:	South SWP	**Turnaround Time:**	Normal
		Phones:	(916) 375-6008
		Fax:	-
Attn:	Sid Fong	**P.O. #:**	4600010998
Client:	CA Department of Water Resources 1450 Riverbank Road West Sacramento, CA 95605	**Billing Code:**	

DoD-ELAP #L2457 ● ELAP-CA #1132 ● EPA-UCMR #CA00211 ● Guam-EPA #17-008R ● HW-DOH # ● ISO 17025 #L2457.01 ● LACSD #10143 ● NELAP-OR #4047 ● NJ-DEP #CA015 ● SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

Dear Sid Fong,

Enclosed are the results of analyses for samples received 9/28/17 with the Chain-of-Custody document. The samples were received in good condition, at 3.1 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:

Brandon Gee
Operations Manager/Senior PM

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CA Department of Water Resources
1450 Riverbank Road
West Sacramento, CA 95605

Project Number: South SWP

Project Manager: Sid Fong

Reported:
10/20/2017 13:07

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
BL0917B0418	Charles Vertucci, Ben Onanian	7I28012-01	Water	09/27/17 08:30	
BL0917B0417	Charles Vertucci, Ben Onanian	7I28012-02	Water	09/27/17 11:00	
BL0917B0419	Charles Vertucci, Ben Onanian	7I28012-03	Water	09/27/17 09:00	

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CA Department of Water Resources
1450 Riverbank Road
West Sacramento, CA 95605

Project Number: South SWP

Project Manager: Sid Fong

Reported:
10/20/2017 13:07

Sample Results

Sample: BL0917B0418
7I28012-01 (Water)

Sampled: 09/27/17 8:30 by Charles Vertucci, Ben Onanian

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods						
Method: SM 4500S2-D	**Batch ID:** W7I1739	**Prepared:** 09/29/17 14:37				**Analyst:** nat
Sulfide, Soluble	ND	0.10	mg/l	1	09/29/17 15:50	
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W7J0293	**Prepared:** 09/28/17 19:45				**Analyst:** aln
Mercury, Total	ND	0.50	ng/l	1	10/09/17 15:29	
Organophosphorus Pesticides by EPA Method 8141B						
Method: EPA 8141B	**Batch ID:** W7I1694	**Prepared:** 09/29/17 08:40				**Analyst:** smr
Chlorpyrifos	ND	0.10	ug/l	1	10/07/17 10:32	
Diazinon	ND	0.10	ug/l	1	10/07/17 10:32	
Surrogate(s)						
Triphenyl phosphate	*127%*	*Conc: 1.27*	*10-181*		*10/07/17 10:32*	

Sample: BL0917B0417
7I28012-02 (Water)

Sampled: 09/27/17 11:00 by Charles Vertucci, Ben Onanian

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods						
Method: SM 4500S2-D	**Batch ID:** W7I1739	**Prepared:** 09/29/17 14:37				**Analyst:** nat
Sulfide, Soluble	ND	0.10	mg/l	1	09/29/17 15:50	
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W7J0293	**Prepared:** 09/28/17 19:45				**Analyst:** aln
Mercury, Total	**0.89**	0.50	ng/l	1	10/09/17 15:29	
Organophosphorus Pesticides by EPA Method 8141B						
Method: EPA 8141B	**Batch ID:** W7I1694	**Prepared:** 09/29/17 08:40				**Analyst:** smr
Chlorpyrifos	ND	0.10	ug/l	1	10/07/17 11:00	
Diazinon	ND	0.10	ug/l	1	10/07/17 11:00	
Surrogate(s)						
Triphenyl phosphate	*103%*	*Conc: 1.03*	*10-181*		*10/07/17 11:00*	

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Project Number: South SWP

Project Manager: Sid Fong

Reported:
10/20/2017 13:07

Sample Results

(Continued)

Sample: BL0917B0419

Sampled: 09/27/17 9:00 by Charles Vertucci, Ben Onanian

7I28012-03 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods						
Method: SM 4500S2-D	**Batch ID:** W7I1739	**Prepared:** 09/29/17 14:37				**Analyst:** nat
Sulfide, Soluble	ND	0.10	mg/l	1	09/29/17 15:50	
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W7J0293	**Prepared:** 09/28/17 19:45				**Analyst:** aln
Mercury, Total	**0.54**	0.50	ng/l	1	10/09/17 15:29	
Organophosphorus Pesticides by EPA Method 8141B						
Method: EPA 8141B	**Batch ID:** W7I1694	**Prepared:** 09/29/17 08:40				**Analyst:** smr
Chlorpyrifos	ND	0.10	ug/l	1	10/07/17 11:29	
Diazinon	ND	0.10	ug/l	1	10/07/17 11:29	
Surrogate(s)						
Triphenyl phosphate	*146%*	*Conc: 1.46*	*10-181*		*10/07/17 11:29*	

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CA Department of Water Resources
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West Sacramento, CA 95605

Project Number: South SWP

Project Manager: Sid Fong

Reported:
10/20/2017 13:07

Quality Control Results

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I1739 - SM 4500S2-D										
Blank (W7I1739-BLK1)				**Prepared & Analyzed: 09/29/17**						
Sulfide, Soluble	ND	0.10	mg/l							
LCS (W7I1739-BS1)				**Prepared & Analyzed: 09/29/17**						
Sulfide, Soluble	0.10	0.10	mg/l				95-105			
Duplicate (W7I1739-DUP1)	**Source: 7I27017-03**			**Prepared & Analyzed: 09/29/17**						
Sulfide, Soluble	ND	0.10	mg/l		ND				20	
Duplicate (W7I1739-DUP2)	**Source: 7I27017-04**			**Prepared & Analyzed: 09/29/17**						
Sulfide, Soluble	ND	0.10	mg/l		ND				20	

Mercury - Low Level by CVAFS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7J0293 - EPA 1631E										
Blank (W7J0293-BLK1)				**Prepared: 10/05/17 Analyzed: 10/09/17**						
Mercury, Total	ND	0.50	ng/l							
LCS (W7J0293-BS1)				**Prepared: 10/05/17 Analyzed: 10/09/17**						
Mercury, Total	5.24	0.50	ng/l	5.00		105	85-115			
Matrix Spike (W7J0293-MS1)	**Source: 7I28012-01**			**Prepared: 10/05/17 Analyzed: 10/09/17**						
Mercury, Total	5.37	0.50	ng/l	5.00	ND	107	75-125			
Matrix Spike Dup (W7J0293-MSD1)	**Source: 7I28012-01**			**Prepared: 10/05/17 Analyzed: 10/09/17**						
Mercury, Total	5.42	0.50	ng/l	5.00	ND	108	75-125	0.9	20	

Organophosphorus Pesticides by EPA Method 8141B

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I1694 - EPA 8141B										
Blank (W7I1694-BLK1)				**Prepared: 09/29/17 Analyzed: 10/07/17**						
Chlorpyrifos	ND	0.10	ug/l							
Diazinon	ND	0.10	ug/l							
Surrogate(s)										
Triphenyl phosphate	*1.43*		*ug/l*	*1.00*		*143*	*10-181*			
LCS (W7I1694-BS1)				**Prepared: 09/29/17 Analyzed: 10/07/17**						
Chlorpyrifos	0.933	0.10	ug/l	1.00		93	35-149			
Diazinon	0.840	0.10	ug/l	1.00		84	37-145			
Surrogate(s)										
Triphenyl phosphate	*1.66*		*ug/l*	*1.00*		*166*	*10-181*			
LCS Dup (W7I1694-BSD1)				**Prepared: 09/29/17 Analyzed: 10/07/17**						
Chlorpyrifos	0.789	0.10	ug/l	1.00		79	35-149	17	25	
Diazinon	0.701	0.10	ug/l	1.00		70	37-145	18	25	
Surrogate(s)										
Triphenyl phosphate	*1.46*		*ug/l*	*1.00*		*146*	*10-181*			

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1450 Riverbank Road
West Sacramento, CA 95605

Project Number: South SWP

Project Manager: Sid Fong

Reported:
10/20/2017 13:07

Notes and Definitions

Item	Definition
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Source	Sample that was matrix spiked or duplicated.
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) and Detection Limit for Reporting (DLR)
MDA	Minimum Detectable Activity
NR	Not Reportable
TIC	Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.
An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB)
All results are expressed on wet weight basis unless otherwise specified.
All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS 002.

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FINAL REPORT

Work Orders:	7I29011	**Report Date:**	10/13/2017
		Received Date:	9/29/2017
Project:	South State	**Turnaround Time:**	Normal
		Phones:	(916) 375-6008
		Fax:	-
Attn:	Sid Fong	**P.O. #:**	4600010998
Client:	CA Department of Water Resources 1450 Riverbank Road West Sacramento, CA 95605	**Billing Code:**	

DoD-ELAP #L2457 ● ELAP-CA #1132 ● EPA-UCMR #CA00211 ● Guam-EPA #17-008R ● HW-DOH # ● ISO 17025 #L2457.01 ● LACSD #10143 ● NELAP-OR #4047 ● NJ-DEP #CA015 ● SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

Dear Sid Fong,

Enclosed are the results of analyses for samples received 9/29/17 with the Chain-of-Custody document. The samples were received in good condition, at 4.8 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:

Brandon Gee
Operations Manager/Senior PM

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CA Department of Water Resources
1450 Riverbank Road
West Sacramento, CA 95605

Project Number: South State

Project Manager: Sid Fong

Reported:
10/13/2017 08:31

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
BL0917B0408	Charles Vertucci, Nick Hood	7I29011-01	Water	09/28/17 09:00	
BL0917B0409	Charles Vertucci, Nick Hood	7I29011-02	Water	09/28/17 09:45	
BL0917B0420	Charles Vertucci, Nick Hood	7I29011-03	Water	09/28/17 09:00	
BL0917B0410	Charles Vertucci, Nick Hood	7I29011-04	Water	09/28/17 10:45	
BL0917B0411	Charles Vertucci, Nick Hood	7I29011-05	Water	09/28/17 11:15	
BL0917B0412	Charles Vertucci, Nick Hood	7I29011-06	Water	09/28/17 11:45	
BL0917B0413	Charles Vertucci, Nick Hood	7I29011-07	Water	09/28/17 12:15	

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CA Department of Water Resources
1450 Riverbank Road
West Sacramento, CA 95605

Project Number: South State

Project Manager: Sid Fong

Reported:
10/13/2017 08:31

Sample Results

Sample: BL0917B0408
7I29011-01 (Water)

Sampled: 09/28/17 9:00 by Charles Vertucci, Nick Hood

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods						
Method: SM 4500S2-D	**Batch ID:** W7I1739	**Prepared:** 09/29/17 14:37				**Analyst:** nat
Sulfide, Soluble	ND	0.10	mg/l	1	09/29/17 15:50	
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W7J0191	**Prepared:** 09/29/17 19:45				**Analyst:** aln
Mercury, Total	**0.56**	0.50	ng/l	1	10/04/17 16:16	
Organophosphorus Pesticides by EPA Method 8141B						
Method: EPA 8141B	**Batch ID:** W7J0012	**Prepared:** 10/03/17 08:30				**Analyst:** smr
Chlorpyrifos	ND	0.10	ug/l	1	10/07/17 00:02	
Diazinon	ND	0.10	ug/l	1	10/07/17 00:02	
Surrogate(s)						
Triphenyl phosphate	*152%*	*Conc: 1.52*	*10-181*		*10/07/17 00:02*	

Sample: BL0917B0409
7I29011-02 (Water)

Sampled: 09/28/17 9:45 by Charles Vertucci, Nick Hood

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods						
Method: SM 4500S2-D	**Batch ID:** W7I1739	**Prepared:** 09/29/17 14:37				**Analyst:** nat
Sulfide, Soluble	ND	0.10	mg/l	1	09/29/17 15:50	
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W7J0191	**Prepared:** 09/29/17 19:45				**Analyst:** aln
Mercury, Total	**1.0**	0.50	ng/l	1	10/04/17 16:16	
Organophosphorus Pesticides by EPA Method 8141B						
Method: EPA 8141B	**Batch ID:** W7J0012	**Prepared:** 10/03/17 08:30				**Analyst:** smr
Chlorpyrifos	ND	0.10	ug/l	1	10/07/17 00:31	
Diazinon	ND	0.10	ug/l	1	10/07/17 00:31	
Surrogate(s)						
Triphenyl phosphate	*138%*	*Conc: 1.38*	*10-181*		*10/07/17 00:31*	

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1450 Riverbank Road
West Sacramento, CA 95605

Project Number: South State

Project Manager: Sid Fong

Reported:
10/13/2017 08:31

Sample Results

(Continued)

Sample: BL0917B0420 — Sampled: 09/28/17 9:00 by Charles Vertucci, Nick Hood

7I29011-03 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods						
Method: SM 4500S2-D	**Batch ID:** W7I1739	**Prepared:** 09/29/17 14:37				**Analyst:** nat
Sulfide, Soluble	ND	0.10	mg/l	1	09/29/17 15:50	
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W7J0191	**Prepared:** 09/29/17 19:45				**Analyst:** aln
Mercury, Total	**0.65**	0.50	ng/l	1	10/04/17 16:16	
Organophosphorus Pesticides by EPA Method 8141B						
Method: EPA 8141B	**Batch ID:** W7J0012	**Prepared:** 10/03/17 08:30				**Analyst:** smr
Chlorpyrifos	ND	0.10	ug/l	1	10/07/17 00:59	
Diazinon	ND	0.10	ug/l	1	10/07/17 00:59	
Surrogate(s)						
Triphenyl phosphate	*148%*	*Conc: 1.48*	*10-181*		*10/07/17 00:59*	

Sample: BL0917B0410 — Sampled: 09/28/17 10:45 by Charles Vertucci, Nick Hood

7I29011-04 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods						
Method: SM 4500S2-D	**Batch ID:** W7I1739	**Prepared:** 09/29/17 14:37				**Analyst:** nat
Sulfide, Soluble	ND	0.10	mg/l	1	09/29/17 15:50	
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W7J0191	**Prepared:** 09/29/17 19:45				**Analyst:** aln
Mercury, Total	ND	0.50	ng/l	1	10/04/17 16:16	
Organophosphorus Pesticides by EPA Method 8141B						
Method: EPA 8141B	**Batch ID:** W7J0012	**Prepared:** 10/03/17 08:30				**Analyst:** smr
Chlorpyrifos	ND	0.10	ug/l	1	10/07/17 01:28	
Diazinon	ND	0.10	ug/l	1	10/07/17 01:28	
Surrogate(s)						
Triphenyl phosphate	*145%*	*Conc: 1.45*	*10-181*		*10/07/17 01:28*	

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CA Department of Water Resources
1450 Riverbank Road
West Sacramento, CA 95605

Project Number: South State

Project Manager: Sid Fong

Reported:
10/13/2017 08:31

Sample Results

(Continued)

Sample: BL0917B0411
7I29011-05 (Water)

Sampled: 09/28/17 11:15 by Charles Vertucci, Nick Hood

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods						
Method: SM 4500S2-D	**Batch ID:** W7I1739	**Prepared:** 09/29/17 14:37				**Analyst:** nat
Sulfide, Soluble	ND	0.10	mg/l	1	09/29/17 15:50	
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W7J0191	**Prepared:** 09/29/17 19:45				**Analyst:** aln
Mercury, Total	**0.78**	0.50	ng/l	1	10/04/17 16:16	
Organophosphorus Pesticides by EPA Method 8141B						
Method: EPA 8141B	**Batch ID:** W7J0012	**Prepared:** 10/03/17 08:30				**Analyst:** smr
Chlorpyrifos	ND	0.10	ug/l	1	10/07/17 01:56	
Diazinon	ND	0.10	ug/l	1	10/07/17 01:56	
Surrogate(s)						
Triphenyl phosphate	*128%*	*Conc: 1.28*	*10-181*		*10/07/17 01:56*	

Sample: BL0917B0412
7I29011-06 (Water)

Sampled: 09/28/17 11:45 by Charles Vertucci, Nick Hood

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods						
Method: SM 4500S2-D	**Batch ID:** W7I1739	**Prepared:** 09/29/17 14:37				**Analyst:** nat
Sulfide, Soluble	ND	0.10	mg/l	1	09/29/17 15:50	
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W7J0191	**Prepared:** 09/29/17 19:45				**Analyst:** aln
Mercury, Total	ND	0.50	ng/l	1	10/04/17 16:16	
Organophosphorus Pesticides by EPA Method 8141B						
Method: EPA 8141B	**Batch ID:** W7J0012	**Prepared:** 10/03/17 08:30				**Analyst:** smr
Chlorpyrifos	ND	0.10	ug/l	1	10/07/17 02:25	
Diazinon	ND	0.10	ug/l	1	10/07/17 02:25	
Surrogate(s)						
Triphenyl phosphate	*138%*	*Conc: 1.38*	*10-181*		*10/07/17 02:25*	

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1450 Riverbank Road
West Sacramento, CA 95605

Project Number: South State

Project Manager: Sid Fong

Reported:
10/13/2017 08:31

Sample Results

(Continued)

Sample: BL0917B0413
7I29011-07 (Water)

Sampled: 09/28/17 12:15 by Charles Vertucci, Nick Hood

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods						
Method: SM 4500S2-D	**Batch ID:** W7I1739	**Prepared:** 09/29/17 14:37				**Analyst:** nat
Sulfide, Soluble	ND	0.10	mg/l	1	09/29/17 15:50	
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W7J0191	**Prepared:** 09/29/17 19:45				**Analyst:** aln
Mercury, Total	**0.54**	0.50	ng/l	1	10/04/17 16:16	
Organophosphorus Pesticides by EPA Method 8141B						
Method: EPA 8141B	**Batch ID:** W7J0012	**Prepared:** 10/03/17 08:30				**Analyst:** smr
Chlorpyrifos	ND	0.10	ug/l	1	10/07/17 02:53	
Diazinon	ND	0.10	ug/l	1	10/07/17 02:53	
Surrogate(s)						
Triphenyl phosphate	*141%*	*Conc: 1.41*	*10-181*		*10/07/17 02:53*	

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CA Department of Water Resources
1450 Riverbank Road
West Sacramento, CA 95605

Project Number: South State

Project Manager: Sid Fong

Reported:
10/13/2017 08:31

Quality Control Results

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I1739 - SM 4500S2-D										
Blank (W7I1739-BLK1)				**Prepared & Analyzed: 09/29/17**						
Sulfide, Soluble	ND	0.10	mg/l							
LCS (W7I1739-BS1)				**Prepared & Analyzed: 09/29/17**						
Sulfide, Soluble	0.10	0.10	mg/l				95-105			
Duplicate (W7I1739-DUP1)	**Source: 7I27017-03**			**Prepared & Analyzed: 09/29/17**						
Sulfide, Soluble	ND	0.10	mg/l		ND				20	
Duplicate (W7I1739-DUP2)	**Source: 7I27017-04**			**Prepared & Analyzed: 09/29/17**						
Sulfide, Soluble	ND	0.10	mg/l		ND				20	

Mercury - Low Level by CVAFS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7J0191 - EPA 1631E										
Blank (W7J0191-BLK1)				**Prepared & Analyzed: 10/04/17**						
Mercury, Total	ND	0.50	ng/l							
LCS (W7J0191-BS1)				**Prepared & Analyzed: 10/04/17**						
Mercury, Total	5.42	0.50	ng/l	5.00		108	85-115			
Matrix Spike (W7J0191-MS1)	**Source: 7I26015-01**			**Prepared & Analyzed: 10/04/17**						
Mercury, Total	5.72	0.50	ng/l	5.00	0.775	99	75-125			
Matrix Spike (W7J0191-MS2)	**Source: 7I26015-02**			**Prepared & Analyzed: 10/04/17**						
Mercury, Total	6.63	0.50	ng/l	5.00	1.33	106	75-125			
Matrix Spike Dup (W7J0191-MSD1)	**Source: 7I26015-01**			**Prepared & Analyzed: 10/04/17**						
Mercury, Total	5.97	0.50	ng/l	5.00	0.775	104	75-125	4	20	
Matrix Spike Dup (W7J0191-MSD2)	**Source: 7I26015-02**			**Prepared & Analyzed: 10/04/17**						
Mercury, Total	6.78	0.50	ng/l	5.00	1.33	109	75-125	2	20	

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Reported:
10/13/2017 08:31

Quality Control Results

(Continued)

Organophosphorus Pesticides by EPA Method 8141B

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7J0012 - EPA 8141B										
Blank (W7J0012-BLK1)				**Prepared: 10/03/17 Analyzed: 10/06/17**						
Azinphos methyl (Guthion)	ND	0.10	ug/l							
Bolstar	ND	0.10	ug/l							
Chlorpyrifos	ND	0.10	ug/l							
Coumaphos	ND	0.10	ug/l							
Demeton-o	ND	0.10	ug/l							
Demeton-s	ND	0.10	ug/l							
Diazinon	ND	0.10	ug/l							
Dichlorvos	ND	0.10	ug/l							
Dimethoate	ND	0.25	ug/l							
Disulfoton	ND	0.10	ug/l							
Ethoprop	ND	0.10	ug/l							
Ethyl parathion	ND	0.25	ug/l							
Fensulfothion	ND	0.10	ug/l							
Fenthion	ND	0.10	ug/l							
Malathion	ND	0.25	ug/l							
Merphos	ND	0.10	ug/l							
Methyl parathion	ND	0.10	ug/l							
Mevinphos	ND	0.10	ug/l							
Naled	ND	0.10	ug/l							
Phorate	ND	0.10	ug/l							
Ronnel	ND	0.10	ug/l							
Stirophos	ND	0.10	ug/l							
Thionazin	ND	0.25	ug/l							
Tokuthion (Prothiofos)	ND	0.10	ug/l							
Total Demeton, -o and -s	ND	0.20	ug/l							
Total Parathion, ethyl & methyl	ND	0.35	ug/l							
Trichloronate	ND	0.10	ug/l							
Surrogate(s)										
Triphenyl phosphate	*1.13*		*ug/l*	*1.00*		*113*	*10-181*			
LCS (W7J0012-BS1)				**Prepared: 10/03/17 Analyzed: 10/06/17**						
Azinphos methyl (Guthion)	1.03	0.10	ug/l	1.00		103	12-167			
Bolstar	0.855	0.10	ug/l	1.00		85	36-146			
Chlorpyrifos	0.809	0.10	ug/l	1.00		81	35-149			
Coumaphos	0.940	0.10	ug/l	1.00		94	24-171			
Demeton-o	0.544	0.10	ug/l	1.00		54	22-117			
Demeton-s	0.824	0.10	ug/l	1.00		82	35-137			
Diazinon	0.679	0.10	ug/l	1.00		68	37-145			

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Project Manager: Sid Fong

Reported:
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Quality Control Results

(Continued)

Organophosphorus Pesticides by EPA Method 8141B (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7J0012 - EPA 8141B (Continued)										
LCS (W7J0012-BS1)				**Prepared: 10/03/17 Analyzed: 10/06/17**						
Dichlorvos	0.768	0.10	ug/l	1.00		77	31-169			
Disulfoton	0.660	0.10	ug/l	1.00		66	39-140			
Ethoprop	0.671	0.10	ug/l	1.00		67	40-153			
Fensulfothion	2.78	0.10	ug/l	1.00		278	24-178			Q-08
Fenthion	0.798	0.10	ug/l	1.00		80	37-147			
Merphos	1.20	0.10	ug/l	1.00		120	25-159			
Methyl parathion	0.779	0.10	ug/l	1.00		78	29-160			
Mevinphos	0.931	0.10	ug/l	1.00		93	31-146			
Naled	0.465	0.10	ug/l	1.00		46	0.1-142			
Phorate	0.627	0.10	ug/l	1.00		63	43-146			
Ronnel	0.744	0.10	ug/l	1.00		74	30-156			
Stirophos	0.960	0.10	ug/l	1.00		96	31-166			
Tokuthion (Prothiofos)	0.845	0.10	ug/l	1.00		85	36-144			
Trichloronate	0.787	0.10	ug/l	1.00		79	38-148			
Surrogate(s)										
Triphenyl phosphate	*1.10*		*ug/l*	*1.00*		*110*	*10-181*			
LCS Dup (W7J0012-BSD1)				**Prepared: 10/03/17 Analyzed: 10/06/17**						
Azinphos methyl (Guthion)	1.27	0.10	ug/l	1.00		127	12-167	21	25	
Bolstar	1.01	0.10	ug/l	1.00		101	36-146	17	25	
Chlorpyrifos	0.833	0.10	ug/l	1.00		83	35-149	3	25	
Coumaphos	1.25	0.10	ug/l	1.00		125	24-171	29	25	Q-12
Demeton-o	0.500	0.10	ug/l	1.00		50	22-117	9	25	
Demeton-s	0.856	0.10	ug/l	1.00		86	35-137	4	25	
Diazinon	0.696	0.10	ug/l	1.00		70	37-145	2	25	
Dichlorvos	0.790	0.10	ug/l	1.00		79	31-169	3	25	
Disulfoton	0.644	0.10	ug/l	1.00		64	39-140	3	25	
Ethoprop	0.690	0.10	ug/l	1.00		69	40-153	3	25	
Fensulfothion	3.41	0.10	ug/l	1.00		341	24-178	20	25	Q-08
Fenthion	0.851	0.10	ug/l	1.00		85	37-147	6	25	
Merphos	1.37	0.10	ug/l	1.00		137	25-159	13	25	
Methyl parathion	0.803	0.10	ug/l	1.00		80	29-160	3	25	
Mevinphos	0.949	0.10	ug/l	1.00		95	31-146	2	25	
Naled	0.317	0.10	ug/l	1.00		32	0.1-142	38	25	Q-12
Phorate	0.601	0.10	ug/l	1.00		60	43-146	4	25	
Ronnel	0.781	0.10	ug/l	1.00		78	30-156	5	25	
Stirophos	1.08	0.10	ug/l	1.00		108	31-166	12	25	
Tokuthion (Prothiofos)	0.935	0.10	ug/l	1.00		94	36-144	10	25	

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West Sacramento, CA 95605

Project Number: South State

Project Manager: Sid Fong

Reported:
10/13/2017 08:31

Quality Control Results

(Continued)

Organophosphorus Pesticides by EPA Method 8141B (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7J0012 - EPA 8141B (Continued)										
LCS Dup (W7J0012-BSD1)				**Prepared: 10/03/17 Analyzed: 10/06/17**						
Trichloronate	0.816	0.10	ug/l	1.00		82	38-148	4	25	
Surrogate(s)										
Triphenyl phosphate	*1.39*		*ug/l*	*1.00*		*139*	*10-181*			

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Reported:
10/13/2017 08:31

Notes and Definitions

Item	Definition
Q-08	High bias in the QC sample does not affect sample result since analyte was not detected or below the reporting limit.
Q-12	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on the percent recoveries and/or other acceptable QC data.
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Source	Sample that was matrix spiked or duplicated.
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) and Detection Limit for Reporting (DLR)
MDA	Minimum Detectable Activity
NR	Not Reportable
TIC	Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.
An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB)
All results are expressed on wet weight basis unless otherwise specified.
All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS 002.

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BROOKS APPLIED LABS
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October 30, 2017

Weck Laboratories, Inc.
ATTN: Brandon Gee
14859 East Clark Avenue
Industry, CA 91745
Brandon.Gee@wecklabs.com

RE: Project WLI-IN1702 Client Project: South SWP

Dear Mr. Gee,

On September 26, 2017, Brooks Applied Labs (BAL) received six (6) aqueous samples in a sealed cooler at a temperature of 7.3 ºC. Brooks Applied Labs strongly recommends that all samples submitted for methyl mercury quantitation remain at a temperature of ≤6°C to maintain sample integrity prior to analysis.

The samples were logged-in for total and dissolved methyl mercury [MeHg] analyses, according to the chain-of-custody forms. All samples were received and stored according to BAL SOPs and EPA methodology.

All samples logged in for dissolved analyses were filtered in the field by the client.

Total and Dissolved Methyl Mercury using MERX

The aqueous samples were distilled via EPA Method 1630. Distillates are analyzed by ethylation, Tenax trap collection, gas chromatography separation, isothermal decomposition, and cold vapor fluorescence spectroscopy (CVAFS) detection using a Brooks Rand Instruments MERX-M CVAFS Methylmercury Automated-Analyzer.

The analysis of samples *BL0917B0414* (1739010-01 & 1739010-02) and *BL0917B0415* (1739010-03 & 1739010-04) produced dissolved MeHg results slightly greater than the associated total values. The results were not significantly greater as the relative percent difference was less than 35%, meeting duplicate precision criteria. All MeHg should be considered in the dissolved form.

The results were method blank-corrected as described in the calculations section of the relevant BAL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

All associated quality control sample results met the acceptance criteria. All data was reported without qualification. BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more information, please see the *Report Information* page in your report.

Please feel free to contact me if you have any questions regarding this report.

Sincerely,

Lydia Greaves
Client Services Manager
Brooks Applied Labs

Report Information

Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received	**MS**	matrix spike
BAL	Brooks Applied Labs	**MSD**	matrix spike duplicate
BLK	method blank	**ND**	non-detect
BS	blank spike	**NR**	non-reportable
CAL	calibration standard	**N/C**	not calculated
CCB	continuing calibration blank	**PS**	post preparation spike
CCV	continuing calibration verification	**REC**	percent recovery
COC	chain of custody record	**RPD**	relative percent difference
D	dissolved fraction	**SCV**	secondary calibration verification
DUP	duplicate	**SOP**	standard operating procedure
IBL	instrument blank	**SRM**	standard reference material
ICV	initial calibration verification	**T**	total fraction
MDL	method detection limit	**TR**	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

(Effective 9/23/09)

E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H Holding time and/or preservation requirements not met. Result is estimated.
J Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1 Estimated value. A full explanation is presented in the narrative.
J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
N Spike recovery was not within acceptance criteria. Result is estimated.
R Rejected, unusable value. A full explanation is presented in the narrative.
U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.

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Project ID: WLI-IN1702
PM: Jeremy Maute

Client PM: Brandon Gee
Client Project: South SWP

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
BL0917B0414	1739010-01	Water	Sample	09/25/2017	09/26/2017
BL0917B0414	1739010-02	Water	Sample	09/25/2017	09/26/2017
BL0917B0415	1739010-03	Water	Sample	09/25/2017	09/26/2017
BL0917B0415	1739010-04	Water	Sample	09/25/2017	09/26/2017
BL0917B0416	1739010-05	Water	Sample	09/25/2017	09/26/2017
BL0917B0416	1739010-06	Water	Sample	09/25/2017	09/26/2017

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
MeHg	Water	EPA 1630	10/05/2017	10/06/2017	B172604	1701234

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
BL0917B0414										
1739010-01	MeHg	Water	TR	0.076		0.019	0.048	ng/L	B172604	1701234
1739010-02	MeHg	Water	D	0.092		0.020	0.049	ng/L	B172604	1701234
BL0917B0415										
1739010-03	MeHg	Water	TR	0.057		0.020	0.050	ng/L	B172604	1701234
1739010-04	MeHg	Water	D	0.076		0.020	0.049	ng/L	B172604	1701234
BL0917B0416										
1739010-05	MeHg	Water	TR	0.079		0.020	0.049	ng/L	B172604	1701234
1739010-06	MeHg	Water	D	0.042	J	0.020	0.049	ng/L	B172604	1701234

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Project ID: WLI-IN1702
PM: Jeremy Maute

Client PM: Brandon Gee
Client Project: South SWP

Accuracy & Precision Summary

Batch: B172604
Lab Matrix: Water
Method: EPA 1630

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B172604-BS1	**Blank Spike, (1739001)**						
	MeHg		1.000	0.840	ng/L	84% 67-133	
B172604-BS2	**Blank Spike, (1739001)**						
	MeHg		1.000	0.706	ng/L	71% 67-133	
B172604-MS3	**Matrix Spike (1739010-05)**						
	MeHg	0.079	1.000	1.220	ng/L	114% 65-135	
B172604-MSD3	**Matrix Spike Duplicate (1739010-05)**						
	MeHg	0.079	1.000	1.143	ng/L	106% 65-135	7% 35

Method Blanks & Reporting Limits

Batch: B172604
Matrix: Water
Method: EPA 1630
Analyte: MeHg

Sample	Result	Units
B172604-BLK1	0.003	ng/L
B172604-BLK2	0.004	ng/L
B172604-BLK3	0.006	ng/L
B172604-BLK4	0.003	ng/L

Average: 0.004 **Standard Deviation:** 0.001 **MDL:** 0.020
Limit: 0.045 **Limit:** 0.015 **MRL:** 0.050

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Project ID: WLI-IN1702
PM: Jeremy Maute

Client PM: Brandon Gee
Client Project: South SWP

Sample Containers

Lab ID: 1739010-01 **Report Matrix:** Water **Collected:** 09/25/2017
Sample: BL0917B0414 **Sample Type:** Sample **Received:** 09/26/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250 mL		0.4% HCl (BAL)	1727033	<2	Cooler

Lab ID: 1739010-02 **Report Matrix:** Water **Collected:** 09/25/2017
Sample: BL0917B0414 **Sample Type:** Sample **Received:** 09/26/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250 mL		0.4% HCl (BAL)	1727033	<2	Cooler

Lab ID: 1739010-03 **Report Matrix:** Water **Collected:** 09/25/2017
Sample: BL0917B0415 **Sample Type:** Sample **Received:** 09/26/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250 mL		0.4% HCl (BAL)	1727033	<2	Cooler

Lab ID: 1739010-04 **Report Matrix:** Water **Collected:** 09/25/2017
Sample: BL0917B0415 **Sample Type:** Sample **Received:** 09/26/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250 mL		0.4% HCl (BAL)	1727033	<2	Cooler

Lab ID: 1739010-05 **Report Matrix:** Water **Collected:** 09/25/2017
Sample: BL0917B0416 **Sample Type:** Sample **Received:** 09/26/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250 mL		0.4% HCl (BAL)	1727033	<2	Cooler

Lab ID: 1739010-06 **Report Matrix:** Water **Collected:** 09/25/2017
Sample: BL0917B0416 **Sample Type:** Sample **Received:** 09/26/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250 mL		0.4% HCl (BAL)	1727033	<2	Cooler

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Project ID: WLI-IN1702
PM: Jeremy Maute

Client PM: Brandon Gee
Client Project: South SWP

Shipping Containers

Cooler

Received: September 26, 2017 9:45
Tracking No: 787851305195 via FedEx
Coolant Type: Ice
Temperature: 7.3 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: IR#14

Custody seals present? No
Custody seals intact? No
COC present? Yes

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BAL Report 1739010

Standard CHAIN OF CUSTODY RECORD

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Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ www.wecklabs.com

WECK WKO#_____

CLIENT NAME:	PROJECT:
HDR (for DWR)	South SWP
ADDRESS: 2379 Gateway Oaks Dr. Suite 200 Sacramento, CA 95833	PHONE: 916-425-8342 FAX: EMAIL: charles.vertucci@hdrinc.com
PROJECT MANAGER Charles Vertucci (HDR), Sid Fong (DWR)	SAMPLER Charles vertucci, ~~Ben Onanian~~ NICK HOOD

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 - 15 Business Days
- ☑ QA/QC Data Package

Charges will apply for weekends/holidays
Method of Shipment:
COMMENTS

ID# (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	Cl_2 Y/N	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	ANALYSES REQUESTED: Methyl Mercury - T	Methyl Mercury - D
BL0917B04	9/25/17	11:10	FW	N		1	X	
"	"	11.10	"	"		1		X
BL0917B05	"	12:00	"	"		1	X	
"	"	12:00	"	"		1		X
BL0917B06	"	13:00	"	"		1	X	
"	"	13:00	"	"		1		X

RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME
Charles Vertucci	9/25 1500	SBL	9/26/17 0945

SAMPLE CONDITION:

Actual Temperature:	
Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Attacked	Y / N
Preserved at Lab	Y / N

SAMPLE TYPE CODE:
AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

PRESCHEDULED RUSH ANALYSES WILL TAKE PRIORITY OVER UNSCHEDULED RUSH REQUESTS
Client agrees to Terms & Conditions at: www.wecklabs.com

SPECIAL REQUIREMENTS / BILLING INFORMATION
REPORT AND INVOICE TO BRANDON GEE @ WECK LABS.

COC version 042707

8 of 8

Page_____ of _____

BROOKS APPLIED LABS
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October 31, 2017

Weck Laboratories, Inc.
ATTN: Brandon Gee
14859 East Clark Avenue
Industry, CA 91745
Brandon.Gee@wecklabs.com

RE: Project WLI-IN1702 Client Project: South SWP

Dear Mr. Gee,

On September 27, 2017, Brooks Applied Labs (BAL) received six (6) aqueous samples in a sealed cooler at a temperature of 4.8 ºC.

The samples were logged-in for total and dissolved methyl mercury [MeHg] analyses, according to the chain-of-custody forms. All samples were received and stored according to BAL SOPs and EPA methodology.

All samples logged in for dissolved analyses were filtered in the field by the client.

Total and Dissolved Methyl Mercury using MERX

The aqueous samples were distilled via EPA Method 1630. Distillates are analyzed by ethylation, Tenax trap collection, gas chromatography separation, isothermal decomposition, and cold vapor fluorescence spectroscopy (CVAFS) detection using a Brooks Rand Instruments MERX-M CVAFS Methylmercury Automated-Analyzer.

The results were method blank-corrected as described in the calculations section of the relevant BAL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

All associated quality control sample results met the acceptance criteria. All data was reported without qualification, aside from concentration qualifiers. BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more information, please see the *Report Information* page in your report.

Please feel free to contact me if you have any questions regarding this report.

Sincerely,

Lydia Greaves

Lydia Greaves
Client Services Manager
Brooks Applied Lab

Project ID: WLI-IN1702
PM: Jeremy Maute

Client PM: Brandon Gee
Client Project: South SWP

Report Information

Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received	**MS**	matrix spike
BAL	Brooks Applied Labs	**MSD**	matrix spike duplicate
BLK	method blank	**ND**	non-detect
BS	blank spike	**NR**	non-reportable
CAL	calibration standard	**N/C**	not calculated
CCB	continuing calibration blank	**PS**	post preparation spike
CCV	continuing calibration verification	**REC**	percent recovery
COC	chain of custody record	**RPD**	relative percent difference
D	dissolved fraction	**SCV**	secondary calibration verification
DUP	duplicate	**SOP**	standard operating procedure
IBL	instrument blank	**SRM**	standard reference material
ICV	initial calibration verification	**T**	total fraction
MDL	method detection limit	**TR**	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

(Effective 9/23/09)

E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H Holding time and/or preservation requirements not met. Result is estimated.
J Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1 Estimated value. A full explanation is presented in the narrative.
J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
N Spike recovery was not within acceptance criteria. Result is estimated.
R Rejected, unusable value. A full explanation is presented in the narrative.
U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.

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Project ID: WLI-IN1702
PM: Jeremy Maute

Client PM: Brandon Gee
Client Project: South SWP

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
BL0917B0404	1739024-01	Water	Sample	09/26/2017	09/27/2017
BL0917B0404	1739024-02	Water	Sample	09/26/2017	09/27/2017
BL0917B0405	1739024-03	Water	Sample	09/26/2017	09/27/2017
BL0917B0405	1739024-04	Water	Sample	09/26/2017	09/27/2017
BL0917B0406	1739024-05	Water	Sample	09/26/2017	09/27/2017
BL0917B0406	1739024-06	Water	Sample	09/26/2017	09/27/2017
BL0917B0407	1739024-07	Water	Sample	09/26/2017	09/27/2017
BL0917B0407	1739024-08	Water	Sample	09/26/2017	09/27/2017

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
MeHg	Water	EPA 1630	10/05/2017	10/06/2017	B172604	1701234

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Project ID: WLI-IN1702
PM: Jeremy Maute

Client PM: Brandon Gee
Client Project: South SWP

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
BL0917B0404										
1739024-01	MeHg	Water	TR	0.054		0.020	0.049	ng/L	B172604	1701234
1739024-02	MeHg	Water	D	0.037	J	0.019	0.049	ng/L	B172604	1701234
BL0917B0405										
1739024-03	MeHg	Water	TR	0.041	J	0.020	0.050	ng/L	B172604	1701234
1739024-04	MeHg	Water	D	0.029	J	0.020	0.049	ng/L	B172604	1701234
BL0917B0406										
1739024-05	MeHg	Water	TR	0.049	J	0.020	0.050	ng/L	B172604	1701234
1739024-06	MeHg	Water	D	0.024	J	0.020	0.050	ng/L	B172604	1701234
BL0917B0407										
1739024-07	MeHg	Water	TR	0.046	J	0.020	0.050	ng/L	B172604	1701234
1739024-08	MeHg	Water	D	≤ 0.020	U	0.020	0.049	ng/L	B172604	1701234

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Project ID: WLI-IN1702
PM: Jeremy Maute

Client PM: Brandon Gee
Client Project: South SWP

Accuracy & Precision Summary

Batch: B172604
Lab Matrix: Water
Method: EPA 1630

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B172604-BS1	**Blank Spike, (1739001)**						
	MeHg		1.000	0.840	ng/L	84% 67-133	
B172604-BS2	**Blank Spike, (1739001)**						
	MeHg		1.000	0.706	ng/L	71% 67-133	
B172604-MS4	**Matrix Spike (1739024-06)**						
	MeHg	0.024	1.000	0.944	ng/L	92% 65-135	
B172604-MSD4	**Matrix Spike Duplicate (1739024-06)**						
	MeHg	0.024	1.000	1.114	ng/L	109% 65-135	17% 35

Method Blanks & Reporting Limits

Batch: B172604
Matrix: Water
Method: EPA 1630
Analyte: MeHg

Sample	Result	Units
B172604-BLK1	0.003	ng/L
B172604-BLK2	0.004	ng/L
B172604-BLK3	0.006	ng/L
B172604-BLK4	0.003	ng/L

Average: 0.004 **Standard Deviation:** 0.001 **MDL:** 0.020
Limit: 0.045 **Limit:** 0.015 **MRL:** 0.050

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Project ID: WLI-IN1702
PM: Jeremy Maute

Client PM: Brandon Gee
Client Project: South SWP

Sample Containers

Lab ID: 1739024-01
Sample: BL0917B0404
Report Matrix: Water
Sample Type: Sample
Collected: 09/26/2017
Received: 09/27/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250mL	n/a	0.4% HCl (BAL)	1727033	<2	Cooler

Lab ID: 1739024-02
Sample: BL0917B0404
Report Matrix: Water
Sample Type: Sample
Collected: 09/26/2017
Received: 09/27/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250mL	n/a	0.4% HCl (BAL)	1727033	<2	Cooler

Lab ID: 1739024-03
Sample: BL0917B0405
Report Matrix: Water
Sample Type: Sample
Collected: 09/26/2017
Received: 09/27/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250mL	n/a	0.4% HCl (BAL)	1727033	<2	Cooler

Lab ID: 1739024-04
Sample: BL0917B0405
Report Matrix: Water
Sample Type: Sample
Collected: 09/26/2017
Received: 09/27/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250mL	n/a	0.4% HCl (BAL)	1727033	<2	Cooler

Lab ID: 1739024-05
Sample: BL0917B0406
Report Matrix: Water
Sample Type: Sample
Collected: 09/26/2017
Received: 09/27/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250mL	n/a	0.4% HCl (BAL)	1727033	<2	Cooler

Lab ID: 1739024-06
Sample: BL0917B0406
Report Matrix: Water
Sample Type: Sample
Collected: 09/26/2017
Received: 09/27/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250mL	n/a	0.4% HCl (BAL)	1727033	<2	Cooler

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Project ID: WLI-IN1702
PM: Jeremy Maute

Client PM: Brandon Gee
Client Project: South SWP

Sample Containers

Lab ID: 1739024-07
Sample: BL0917B0407
Report Matrix: Water
Sample Type: Sample
Collected: 09/26/2017
Received: 09/27/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250mL	n/a	0.4% HCl (BAL)	1727033	<2	Cooler

Lab ID: 1739024-08
Sample: BL0917B0407
Report Matrix: Water
Sample Type: Sample
Collected: 09/26/2017
Received: 09/27/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250mL	n/a	0.4% HCl (BAL)	1727033	<2	Cooler

Shipping Containers

Cooler

Received: September 27, 2017 10:00
Tracking No: 787867255542 via FedEx
Coolant Type: Ice
Temperature: 4.8 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: IR #14

Custody seals present? No
Custody seals intact? No
COC present? Yes

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7L19078

Standard CHAIN OF CUSTODY RECORD

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Analytical Laboratory Services - Since 1964
14859 East Clark Avenue : Industry : CA 91745
Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ www.wecklabs.com

WECK WKO#_____

CLIENT NAME:	PROJECT:	
HDR (for DWR)	South SWP	
ADDRESS: 2379 Gateway Oaks Dr. Suite 200 Sacramento, CA 95833	PHONE: 916-425-8342 FAX: EMAIL: charles.vertucci@hdrinc.com	
PROJECT MANAGER Charles Vertucci (HDR), Sid Fong (DWR)	SAMPLER Charles vertucci, Ben Onanian	

ANALYSES REQUESTED: Methyl Mercury (TOTAL/DISSOLVED)

SPECIAL HANDLING
- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 - 15 Business Days
- ☑ QA/QC Data Package

Charges will apply for weekends/holidays
Method of Shipment:
COMMENTS

ID# (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	Cl_2 Y/N	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	Methyl Mercury (TOTAL/DISSOLVED)
	9/26/17	10:45	FW	N	BL0917B0404	2	X
	↓	11:30			BL0917B0405	2	X
		12:45			BL0917B0406	2	X
	↓	12:20			BL0917B0407	2	X

RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME
Charles Vertucci (HDR)			9/27/17 1000
RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME
RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME

SAMPLE CONDITION:
Actual Temperature:
Received On Ice Y / N
Preserved Y / N
Evidence Seals Present Y / N
Container Attacked Y / N
Preserved at Lab Y / N

SAMPLE TYPE CODE:
AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

PRESCHEDULED RUSH ANALYSES WILL TAKE PRIORITY OVER UNSCHEDULED RUSH REQUESTS
Client agrees to Terms & Conditions at: www.wecklabs.com

SPECIAL REQUIREMENTS / BILLING INFORMATION
SEND REPORT & INVOICE TO BRANDON GEE @ WECK LABS

COC version 042707

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October 31, 2017

Weck Laboratories, Inc.
ATTN: Brandon Gee
14859 East Clark Avenue
Industry, CA 91745
Brandon.Gee@wecklabs.com

RE: Project WLI-IN1702 Client Project: South SWP

Dear Mr. Gee,

On September 28, 2017, Brooks Applied Labs (BAL) received three (3) aqueous samples in a sealed cooler at a temperature of 5.4 ºC.

The samples were logged-in for total and dissolved methyl mercury [MeHg] analyses, according to the chain-of-custody forms. All samples were received and stored according to BAL SOPs and EPA methodology.

All samples logged in for dissolved analyses were filtered in the field by the client.

Total and Dissolved Methyl Mercury using MERX

The aqueous samples were distilled via EPA Method 1630. Distillates are analyzed by ethylation, Tenax trap collection, gas chromatography separation, isothermal decomposition, and cold vapor fluorescence spectroscopy (CVAFS) detection using a Brooks Rand Instruments MERX-M CVAFS Methylmercury Automated-Analyzer.

The results were method blank-corrected as described in the calculations section of the relevant BAL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

All associated quality control sample results met the acceptance criteria. All data was reported without qualification, aside from concentration qualifiers. BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more information, please see the *Report Information* page in your report.

Please feel free to contact me if you have any questions regarding this report.

Sincerely,

Lydia Greaves

Lydia Greaves
Client Services Manager
Brooks Applied Lab

Report Information

Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received	**MS**	matrix spike
BAL	Brooks Applied Labs	**MSD**	matrix spike duplicate
BLK	method blank	**ND**	non-detect
BS	blank spike	**NR**	non-reportable
CAL	calibration standard	**N/C**	not calculated
CCB	continuing calibration blank	**PS**	post preparation spike
CCV	continuing calibration verification	**REC**	percent recovery
COC	chain of custody record	**RPD**	relative percent difference
D	dissolved fraction	**SCV**	secondary calibration verification
DUP	duplicate	**SOP**	standard operating procedure
IBL	instrument blank	**SRM**	standard reference material
ICV	initial calibration verification	**T**	total fraction
MDL	method detection limit	**TR**	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

(Effective 9/23/09)

E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H Holding time and/or preservation requirements not met. Result is estimated.
J Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1 Estimated value. A full explanation is presented in the narrative.
J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
N Spike recovery was not within acceptance criteria. Result is estimated.
R Rejected, unusable value. A full explanation is presented in the narrative.
U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.

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Project ID: WLI-IN1702
PM: Jeremy Maute

Client PM: Brandon Gee
Client Project: South SWP

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
BL0917B0418	1739030-01	Water	Sample	09/27/2017	09/28/2017
BL0917B0418	1739030-02	Water	Sample	09/27/2017	09/28/2017
BL0917B0419	1739030-03	Water	Sample	09/27/2017	09/28/2017
BL0917B0419	1739030-04	Water	Sample	09/27/2017	09/28/2017
BL0917B0417	1739030-05	Water	Sample	09/27/2017	09/28/2017
BL0917B0417	1739030-06	Water	Sample	09/27/2017	09/28/2017

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
MeHg	Water	EPA 1630	10/09/2017	10/10/2017	B172605	1701246

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
BL0917B0417										
1739030-05	MeHg	Water	TR	0.055		0.020	0.050	ng/L	B172605	1701246
1739030-06	MeHg	Water	D	0.026	J	0.020	0.050	ng/L	B172605	1701246
BL0917B0418										
1739030-01	MeHg	Water	TR	≤ 0.020	U	0.020	0.049	ng/L	B172605	1701246
1739030-02	MeHg	Water	D	≤ 0.020	U	0.020	0.049	ng/L	B172605	1701246
BL0917B0419										
1739030-03	MeHg	Water	TR	≤ 0.020	U	0.020	0.049	ng/L	B172605	1701246
1739030-04	MeHg	Water	D	≤ 0.020	U	0.020	0.049	ng/L	B172605	1701246

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Project ID: WLI-IN1702
PM: Jeremy Maute

Client PM: Brandon Gee
Client Project: South SWP

Accuracy & Precision Summary

Batch: B172605
Lab Matrix: Water
Method: EPA 1630

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B172605-BS1	**Blank Spike, (1739001)**						
	MeHg		1.000	0.898	ng/L	90% 67-133	
B172605-BS2	**Blank Spike, (1739001)**						
	MeHg		1.000	0.956	ng/L	96% 67-133	
B172605-MS3	**Matrix Spike (1739070-05)**						
	MeHg	0.035	1.000	1.091	ng/L	106% 65-135	
B172605-MSD3	**Matrix Spike Duplicate (1739070-05)**						
	MeHg	0.035	1.000	1.017	ng/L	98% 65-135	7% 35

Method Blanks & Reporting Limits

Batch: B172605
Matrix: Water
Method: EPA 1630
Analyte: MeHg

Sample	Result	Units
B172605-BLK1	-0.0002	ng/L
B172605-BLK2	0.005	ng/L
B172605-BLK3	0.005	ng/L
B172605-BLK4	-0.0002	ng/L

Average: 0.002 **Standard Deviation:** 0.003 **MDL:** 0.020
Limit: 0.045 **Limit:** 0.015 **MRL:** 0.049

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Project ID: WLI-IN1702
PM: Jeremy Maute

Client PM: Brandon Gee
Client Project: South SWP

Sample Containers

Lab ID: 1739030-01 **Report Matrix:** Water **Collected:** 09/27/2017
Sample: BL0917B0418 **Sample Type:** Sample **Received:** 09/28/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250mL	n/a	0.4% HCl (BAL)	1727033	<2	Cooler

Lab ID: 1739030-02 **Report Matrix:** Water **Collected:** 09/27/2017
Sample: BL0917B0418 **Sample Type:** Sample **Received:** 09/28/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250mL	n/a	0.4% HCl (BAL)	1727033	<2	Cooler

Lab ID: 1739030-03 **Report Matrix:** Water **Collected:** 09/27/2017
Sample: BL0917B0419 **Sample Type:** Sample **Received:** 09/28/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250mL	n/a	0.4% HCl (BAL)	1727033	<2	Cooler

Lab ID: 1739030-04 **Report Matrix:** Water **Collected:** 09/27/2017
Sample: BL0917B0419 **Sample Type:** Sample **Received:** 09/28/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250mL	n/a	0.4% HCl (BAL)	1727033	<2	Cooler

Lab ID: 1739030-05 **Report Matrix:** Water **Collected:** 09/27/2017
Sample: BL0917B0417 **Sample Type:** Sample **Received:** 09/28/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250mL	n/a	0.4% HCl (BAL)	1727033	<2	Cooler

Lab ID: 1739030-06 **Report Matrix:** Water **Collected:** 09/27/2017
Sample: BL0917B0417 **Sample Type:** Sample **Received:** 09/28/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250mL	n/a	0.4% HCl (BAL)	1727033	<2	Cooler

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Project ID: WLI-IN1702
PM: Jeremy Maute

Client PM: Brandon Gee
Client Project: South SWP

Shipping Containers

Cooler

Received: September 28, 2017 9:20
Tracking No: 787881771064 via FedEx
Coolant Type: Ice
Temperature: 5.4 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: IR #13

Custody seals present? No
Custody seals intact? No
COC present? Yes

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7L19080

Standard CHAIN OF CUSTODY RECORD

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Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ www.wecklabs.com

WECK WKO#_____

CLIENT NAME:	PROJECT:	
HDR (for DWR)	South SWP	
ADDRESS: 2379 Gateway Oaks Dr. Suite 200 Sacramento, CA 95833	PHONE: 916-425-8342 FAX: EMAIL: charles.vertucci@hdrinc.com	
PROJECT MANAGER Charles Vertucci (HDR), Sid Fong (DWR)	SAMPLER Charles vertucci, Ben Onanian	

ID# (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	Cl_2 Y/N	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	Methyl Mercury T/D										
	9/27	830	FW	N	BL0917B0418	2	X										
	↓	900	↓	↓	BL0917B0419	2	X										
	↓	1100	↓	↓	BL0917B0417	2	X										

ANALYSES REQUESTED

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 - 15 Business Days
- ☑ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

COMMENTS

RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME
CHARLES VERTUCCI HDR	9/27 1500		9/28/17 0920
RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME
RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME

SAMPLE CONDITION:

Actual Temperature:	
Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Attacked	Y / N
Preserved at Lab	Y / N

SAMPLE TYPE CODE:

AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

PRESCHEDULED RUSH ANALYSES WILL TAKE PRIORITY
OVER UNSCHEDULED RUSH REQUESTS
Client agrees to Terms & Conditions at: www.wecklabs.com

SPECIAL REQUIREMENTS / BILLING INFORMATION

SEND REPORT + INVOICE TO BRANDON GEE @ WECK LABS.

COC version 042707

BROOKS APPLIED LABS
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October 31, 2017

Weck Laboratories, Inc.
ATTN: Brandon Gee
14859 East Clark Avenue
Industry, CA 91745
Brandon.Gee@wecklabs.com

RE: Project WLI-IN1702 Client Project: South SWP

Dear Mr. Gee,

On September 29, 2017, Brooks Applied Labs (BAL) received seven (7) aqueous samples in a sealed cooler at a temperature of 3.4 ºC.

The samples were logged-in for total and dissolved methyl mercury [MeHg] analyses, according to the chain-of-custody forms. All samples were received and stored according to BAL SOPs and EPA methodology.

All samples logged in for dissolved analyses were filtered in the field by the client.

Total and Dissolved Methyl Mercury using MERX

The aqueous samples were distilled via EPA Method 1630. Distillates are analyzed by ethylation, Tenax trap collection, gas chromatography separation, isothermal decomposition, and cold vapor fluorescence spectroscopy (CVAFS) detection using a Brooks Rand Instruments MERX-M CVAFS Methylmercury Automated-Analyzer.

The analysis of sample *BL0917B0411* (1739070-09 & 1739070-10) produced a dissolved MeHg result slightly greater than the associated total value. The result was not significantly greater as the relative percent difference was less than 35%, meeting duplicate precision criteria. All MeHg should be considered in the dissolved form.

The results were method blank-corrected as described in the calculations section of the relevant BAL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

All associated quality control sample results met the acceptance criteria. All data was reported without qualification, aside from concentration qualifiers. BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more information, please see the *Report Information* page in your report.

Please feel free to contact me if you have any questions regarding this report.

Sincerely,

Lydia Greaves
Client Services Manager
Brooks Applied Lab

Report Information

Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received	**MS**	matrix spike
BAL	Brooks Applied Labs	**MSD**	matrix spike duplicate
BLK	method blank	**ND**	non-detect
BS	blank spike	**NR**	non-reportable
CAL	calibration standard	**N/C**	not calculated
CCB	continuing calibration blank	**PS**	post preparation spike
CCV	continuing calibration verification	**REC**	percent recovery
COC	chain of custody record	**RPD**	relative percent difference
D	dissolved fraction	**SCV**	secondary calibration verification
DUP	duplicate	**SOP**	standard operating procedure
IBL	instrument blank	**SRM**	standard reference material
ICV	initial calibration verification	**T**	total fraction
MDL	method detection limit	**TR**	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

(Effective 9/23/09)

E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Result is estimated.
J	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1	Estimated value. A full explanation is presented in the narrative.
J-M	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
J-N	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
M	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
N	Spike recovery was not within acceptance criteria. Result is estimated.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.

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Project ID: WLI-IN1702
PM: Jeremy Maute

Client PM: Brandon Gee
Client Project: South State

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
BL0917B0408	1739070-01	Water	Sample	09/28/2017	09/29/2017
BL0917B0408	1739070-02	Water	Sample	09/28/2017	09/29/2017
BL0917B0409	1739070-03	Water	Sample	09/28/2017	09/29/2017
BL0917B0409	1739070-04	Water	Sample	09/28/2017	09/29/2017
BL0917B0420	1739070-05	Water	Sample	09/28/2017	09/29/2017
BL0917B0420	1739070-06	Water	Sample	09/28/2017	09/29/2017
BL0917B0410	1739070-07	Water	Sample	09/28/2017	09/29/2017
BL0917B0410	1739070-08	Water	Sample	09/28/2017	09/29/2017
BL0917B0411	1739070-09	Water	Sample	09/28/2017	09/29/2017
BL0917B0411	1739070-10	Water	Sample	09/28/2017	09/29/2017
BL0917B0412	1739070-11	Water	Sample	09/28/2017	09/29/2017
BL0917B0412	1739070-12	Water	Sample	09/28/2017	09/29/2017
BL0917B0413	1739070-13	Water	Sample	09/28/2017	09/29/2017
BL0917B0413	1739070-14	Water	Sample	09/28/2017	09/29/2017

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
MeHg	Water	EPA 1630	10/09/2017	10/10/2017	B172605	1701246

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Project ID: WLI-IN1702
PM: Jeremy Maute

Client PM: Brandon Gee
Client Project: South State

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
BL0917B0408										
1739070-01	MeHg	Water	TR	0.031	J	0.020	0.049	ng/L	B172605	1701246
1739070-02	MeHg	Water	D	≤ 0.020	U	0.020	0.050	ng/L	B172605	1701246
BL0917B0409										
1739070-03	MeHg	Water	TR	0.068		0.020	0.050	ng/L	B172605	1701246
1739070-04	MeHg	Water	D	0.059		0.020	0.049	ng/L	B172605	1701246
BL0917B0410										
1739070-07	MeHg	Water	TR	0.076		0.020	0.050	ng/L	B172605	1701246
1739070-08	MeHg	Water	D	0.034	J	0.020	0.050	ng/L	B172605	1701246
BL0917B0411										
1739070-09	MeHg	Water	TR	0.022	J	0.020	0.049	ng/L	B172605	1701246
1739070-10	MeHg	Water	D	0.029	J	0.020	0.050	ng/L	B172605	1701246
BL0917B0412										
1739070-11	MeHg	Water	TR	0.038	J	0.020	0.050	ng/L	B172605	1701246
1739070-12	MeHg	Water	D	≤ 0.020	U	0.020	0.050	ng/L	B172605	1701246
BL0917B0413										
1739070-13	MeHg	Water	TR	0.053		0.020	0.050	ng/L	B172605	1701246
1739070-14	MeHg	Water	D	0.036	J	0.020	0.050	ng/L	B172605	1701246
BL0917B0420										
1739070-05	MeHg	Water	TR	0.035	J	0.020	0.050	ng/L	B172605	1701246
1739070-06	MeHg	Water	D	0.024	J	0.020	0.050	ng/L	B172605	1701246

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Project ID: WLI-IN1702
PM: Jeremy Maute

Client PM: Brandon Gee
Client Project: South State

Accuracy & Precision Summary

Batch: B172605
Lab Matrix: Water
Method: EPA 1630

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B172605-BS1	**Blank Spike, (1739001)**						
	MeHg		1.000	0.898	ng/L	90% 67-133	
B172605-BS2	**Blank Spike, (1739001)**						
	MeHg		1.000	0.956	ng/L	96% 67-133	
B172605-MS2	**Matrix Spike (1739066-01)**						
	MeHg	6.195	1.000	7.178	ng/L	NR 65-135	
B172605-MSD2	**Matrix Spike Duplicate (1739066-01)**						
	MeHg	6.195	1.000	6.025	ng/L	NR 65-135	N/C 35
B172605-MS3	**Matrix Spike (1739070-05)**						
	MeHg	0.035	1.000	1.091	ng/L	106% 65-135	
B172605-MSD3	**Matrix Spike Duplicate (1739070-05)**						
	MeHg	0.035	1.000	1.017	ng/L	98% 65-135	7% 35

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Project ID: WLI-IN1702
PM: Jeremy Maute

Client PM: Brandon Gee
Client Project: South State

Method Blanks & Reporting Limits

Batch: B172605
Matrix: Water
Method: EPA 1630
Analyte: MeHg

Sample	Result	Units
B172605-BLK1	-0.0002	ng/L
B172605-BLK2	0.005	ng/L
B172605-BLK3	0.005	ng/L
B172605-BLK4	-0.0002	ng/L

Average: 0.002 **Standard Deviation:** 0.003 **MDL:** 0.020
Limit: 0.045 **Limit:** 0.015 **MRL:** 0.049

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Project ID: WLI-IN1702
PM: Jeremy Maute

Client PM: Brandon Gee
Client Project: South State

Sample Containers

Lab ID: 1739070-01 **Report Matrix:** Water **Collected:** 09/28/2017
Sample: BL0917B0408 **Sample Type:** Sample **Received:** 09/29/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250mL	n/a	0.4% HCl (BAL)	1727033	<2	Cooler

Lab ID: 1739070-02 **Report Matrix:** Water **Collected:** 09/28/2017
Sample: BL0917B0408 **Sample Type:** Sample **Received:** 09/29/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250mL	n/a	0.4% HCl (BAL)	1727033	<2	Cooler

Lab ID: 1739070-03 **Report Matrix:** Water **Collected:** 09/28/2017
Sample: BL0917B0409 **Sample Type:** Sample **Received:** 09/29/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250mL	n/a	0.4% HCl (BAL)	1727033	<2	Cooler

Lab ID: 1739070-04 **Report Matrix:** Water **Collected:** 09/28/2017
Sample: BL0917B0409 **Sample Type:** Sample **Received:** 09/29/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250mL	n/a	0.4% HCl (BAL)	1727033	<2	Cooler

Lab ID: 1739070-05 **Report Matrix:** Water **Collected:** 09/28/2017
Sample: BL0917B0420 **Sample Type:** Sample **Received:** 09/29/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250mL	n/a	0.4% HCl (BAL)	1727033	<2	Cooler

Lab ID: 1739070-06 **Report Matrix:** Water **Collected:** 09/28/2017
Sample: BL0917B0420 **Sample Type:** Sample **Received:** 09/29/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250mL	n/a	0.4% HCl (BAL)	1727033	<2	Cooler

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Project ID: WLI-IN1702
PM: Jeremy Maute

Client PM: Brandon Gee
Client Project: South State

Sample Containers

Lab ID: 1739070-07 **Report Matrix:** Water **Collected:** 09/28/2017
Sample: BL0917B0410 **Sample Type:** Sample **Received:** 09/29/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250mL	n/a	0.4% HCl (BAL)	1727033	<2	Cooler

Lab ID: 1739070-08 **Report Matrix:** Water **Collected:** 09/28/2017
Sample: BL0917B0410 **Sample Type:** Sample **Received:** 09/29/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250mL	n/a	0.4% HCl (BAL)	1727033	<2	Cooler

Lab ID: 1739070-09 **Report Matrix:** Water **Collected:** 09/28/2017
Sample: BL0917B0411 **Sample Type:** Sample **Received:** 09/29/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250mL	n/a	0.4% HCl (BAL)	1727033	<2	Cooler

Lab ID: 1739070-10 **Report Matrix:** Water **Collected:** 09/28/2017
Sample: BL0917B0411 **Sample Type:** Sample **Received:** 09/29/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250mL	n/a	0.4% HCl (BAL)	1727033	<2	Cooler

Lab ID: 1739070-11 **Report Matrix:** Water **Collected:** 09/28/2017
Sample: BL0917B0412 **Sample Type:** Sample **Received:** 09/29/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250mL	n/a	0.4% HCl (BAL)	1727033	<2	Cooler

Lab ID: 1739070-12 **Report Matrix:** Water **Collected:** 09/28/2017
Sample: BL0917B0412 **Sample Type:** Sample **Received:** 09/29/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250mL	n/a	0.4% HCl (BAL)	1727033	<2	Cooler

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Project ID: WLI-IN1702
PM: Jeremy Maute

Client PM: Brandon Gee
Client Project: South State

Sample Containers

Lab ID: 1739070-13
Sample: BL0917B0413
Report Matrix: Water
Sample Type: Sample
Collected: 09/28/2017
Received: 09/29/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250mL	n/a	0.4% HCl (BAL)	1727033	<2	Cooler

Lab ID: 1739070-14
Sample: BL0917B0413
Report Matrix: Water
Sample Type: Sample
Collected: 09/28/2017
Received: 09/29/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	250mL	n/a	0.4% HCl (BAL)	1727033	<2	Cooler

Shipping Containers

Cooler

Received: September 29, 2017 9:30
Tracking No: 787896098980 via FedEx
Coolant Type: Ice
Temperature: 3.4 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: IR# 14

Custody seals present? No
Custody seals intact? No
COC present? Yes

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WECK WKO#_____

CLIENT NAME: HDR (for DWR)

PROJECT: South State ~~Dewil Canyon~~

ADDRESS: 2379 Gateway Oaks Dr. Suite 200
Sacramento, CA
95833

PHONE: 916-425-8342
FAX:
EMAIL: charles.vertucci@hdrinc.com

PROJECT MANAGER: Charles Vertucci (HDR), Sid Fong (DWR)

SAMPLER: NICK HOOD
Charles vertucci, ~~Ben Omalian~~

ANALYSES REQUESTED: METHYL MERC (Total/Dissolved)

SPECIAL HANDLING
- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 - 15 Business Days
- ☑ QA/QC Data Package

Charges will apply for weekends/holidays
Method of Shipment:
COMMENTS

ID# (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	Cl_2 Y/N	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	METHYL MERC (Total/Dissolved)
	9/28	9:00	FW	N	~~BL0917B~~ BL0917B0408	2	X
	"	9:45	"	"	BL0917B0409	2	X
		9:00			BL0917B0~~4~~10	2	X
		10:45			BL0917B0410	2	X
		11:15			~~BL0917~~ BL0917B0411	2	X
		11:45			BL0917B0412	2	X
	↓	12:15	↓	↓	BL0917B0413	2	X

RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME
[signature]	9/28 15:00	Madeline Mercer	9/29/17 9:30
RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME
RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME

SAMPLE CONDITION:
Actual Temperature:
Received On Ice Y / N
Preserved Y / N
Evidence Seals Present Y / N
Container Attacked Y / N
Preserved at Lab Y / N

SAMPLE TYPE CODE:
AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

PRESCHEDULED RUSH ANALYSES WILL TAKE PRIORITY OVER UNSCHEDULED RUSH REQUESTS
Client agrees to Terms & Conditions at: www.wecklabs.com

SPECIAL REQUIREMENTS / BILLING INFORMATION
SEND INVOICE + REPORT TO BRANDON BEE @ WECK LABS

COC version 042707

DWR Bryte Analytical Lab

1450 Riverbank Road, West Sacramento, CA 95605

Report of Analytical Results

20-Oct-17

Submittal Name: FERC - Pyramid, Quail, Piru

Submittal ID: BL0917B0021

These results are also available to DWR staff in electronic form via the DWR Water Data Library (WDL) http://wdl.water.ca.gov. Contact Kelley Pepper (kelley.pepper@water.ca.gov) to set up access.

(First) Collection Date: 09/25/2017 11:10

Received Date: 09/26/2017 12:35

Report to:

Charles Vertucci

, CA

Priority: 5

Submitted By: Charles Vertucci

Received By: Wong, Allan

Instructions to Lab:

Samples:

BL0917B0414	BL0917B0415	BL0917B0416

Analyst Summary:

20 - Chan, Elaine	67 - Hicks, Matt	9 - Pineda, Maritza	10 - Quiambao, Josie	86 - Stroke, Ashley
13 - Thind, Pritam				

Submittal Review Notes From Lab:

Report of Field Results

Sample Number BL0917B0414 — **Field Results**

StationNumber:	StationName	Matrix	Cost Code:	Collection Date
Piru Cr Bl Dam	Piru Cr Bl Dam	Water, Natural	30375000	9/25/2017 11:10 AM

Method	Analyte	Result	Rpt.Lmt.	Units	Time	Footnotes
Specific Conductance	Specific Conductance	249	1	µS/cm@25°C		

Sample Number BL0917B0415 — **Field Results**

StationNumber:	StationName	Matrix	Cost Code:	Collection Date
Piru Cr 1.5mi DS	Piru Cr @ 1.5mi DS	Water, Natural	30375000	9/25/2017 12:00 PM

Method	Analyte	Result	Rpt.Lmt.	Units	Time	Footnotes
Specific Conductance	Specific Conductance	381	1	µS/cm@25°C		

Sample Number BL0917B0416 — **Field Results**

StationNumber:	StationName	Matrix	Cost Code:	Collection Date
Piru Cr 3.0mi DS	Piru Cr @ 3.0mi DS	Water, Natural	30375000	9/25/2017 1:00 PM

Method	Analyte	Result	Rpt.Lmt.	Units	Time	Footnotes
Specific Conductance	Specific Conductance	660	1	µS/cm@25°C		

Report of Inorganic Analytical Results

Including Misc Physical Measurements

Sample Number BL0917B0414 — **Inorganic Analytical Results**

BL0917B0414 *Sample Type(Purpose):* Normal Sample *Depth:* 3 Ft. *Collection Date:* 09/25/2017 11:10

StationNumber: Piru Cr Bl Dam *StationName:* Piru Cr Bl Dam *Matrix:* Water, Natural *Cost Code:* 30375000

Sample Condition: 2.0 °C when received. Iced.

Method	Analyte	Result	Units	R.L.	Dilution	ChemID	Analysis Date	Flags and Notes:
EPA 200.8 (D)	Dissolved Aluminum	< 0.01	mg/L	0.01	1.	13	10/5/2017	
EPA 350.1 (D)	Dissolved Ammonia	< 0.01	mg/L as N	0.01	1.	86	10/10/2017	
EPA 200.8 (D)	Dissolved Antimony	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Arsenic	0.003	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Barium	0.019	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Beryllium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Cadmium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.7 (D)	Dissolved Calcium	15	mg/L	1.	1.	10	9/29/2017	
EPA 300.0 28d Hold	Dissolved Chloride	28	mg/L	1.	1.	9	9/28/2017	
EPA 200.8 (D)	Dissolved Chromium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Copper	< 0.001	mg/L	0.001	1.	13	10/5/2017	
Std Method 2340 B	Dissolved Hardness	65	mg/L as CaCO3	1.	1.	10	9/29/2017	
EPA 200.8 (D)	Dissolved Iron	< 0.005	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Lead	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.7 (D)	Dissolved Magnesium	7	mg/L	1.	1.	10	9/29/2017	
EPA 200.8 (D)	Dissolved Manganese	< 0.005	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Nickel	< 0.001	mg/L	0.001	1.	13	10/5/2017	
Std Method 4500-NO3-F (28	Dissolved Nitrate + Nitrite	0.45	mg/L as N	0.01	1.	86	10/10/2017	
EPA 415.1 (D) Ox	Dissolved Organic Carbon	3.1	mg/L as C	0.5	1.	67	9/28/2017	
EPA 365.1 (DWR Modified)	Dissolved Ortho-phosphate	0.14	mg/L as P	0.01	1.	86	10/10/2017	
EPA 200.7 (D)	Dissolved Potassium	2.1	mg/L	0.5	1.	10	9/29/2017	
EPA 200.8 (D)	Dissolved Selenium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Silver	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.7 (D)	Dissolved Sodium	24	mg/L	1.	1.	10	9/29/2017	
EPA 300.0 28d Hold	Dissolved Sulfate	26	mg/L	1.	1.	9	9/28/2017	
EPA 200.8 (D)	Dissolved Zinc	0.01	mg/L	0.005	1.	13	10/5/2017	

N.A.=Not Analyzed R.L.=Reporting Limit (Reporting Limits Adjusted For Dilution)

Sample Number **BL0917B0414** ***Inorganic Analytical Results***

Std Method 2320 B	pH	7.1	pH Units	0.1	1.	20	9/26/2017	
Std Method 2510-B	Specific Conductance	256	µS/cm@25°C	1.	1.	20	9/26/2017	
Std Method 2320 B	Total Alkalinity	49	mg/L as CaCO3	1.	1.	20	9/26/2017	
EPA 200.8 (T)	Total Aluminum	0.02	mg/L	0.01	1.	13	9/28/2017	Dup-BL0917B0414
EPA 200.8 (T)	Total Aluminum	0.02	mg/L	0.01	1.	13	9/28/2017	
EPA 200.8 (T)	Total Antimony	< 0.001	mg/L	0.001	1.	13	9/28/2017	Dup-BL0917B0414
EPA 200.8 (T)	Total Antimony	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Arsenic	0.004	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Arsenic	0.004	mg/L	0.001	1.	13	9/28/2017	Dup-BL0917B0414
EPA 200.8 (T)	Total Barium	0.02	mg/L	0.005	1.	13	9/28/2017	
EPA 200.8 (T)	Total Barium	0.02	mg/L	0.005	1.	13	9/28/2017	Dup-BL0917B0414
EPA 200.8 (T)	Total Beryllium	< 0.001	mg/L	0.001	1.	13	9/28/2017	Dup-BL0917B0414
EPA 200.8 (T)	Total Beryllium	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Cadmium	< 0.001	mg/L	0.001	1.	13	9/28/2017	Dup-BL0917B0414
EPA 200.8 (T)	Total Cadmium	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Chromium	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Chromium	< 0.001	mg/L	0.001	1.	13	9/28/2017	Dup-BL0917B0414
EPA 200.8 (T)	Total Copper	< 0.001	mg/L	0.001	1.	13	9/28/2017	Dup-BL0917B0414
EPA 200.8 (T)	Total Copper	< 0.001	mg/L	0.001	1.	13	9/28/2017	
Std Method 2540 C	Total Dissolved Solids	152	mg/L	1.	1.	20	9/28/2017	
EPA 200.8 (T)	Total Iron	< 0.005	mg/L	0.005	1.	13	9/28/2017	Dup-BL0917B0414
EPA 200.8 (T)	Total Iron	< 0.005	mg/L	0.005	1.	13	9/28/2017	
EPA 351.2	Total Kjeldahl Nitrogen	0.2	mg/L as N	0.1	1.	86	10/13/2017	
EPA 200.8 (T)	Total Lead	< 0.001	mg/L	0.001	1.	13	9/28/2017	Dup-BL0917B0414
EPA 200.8 (T)	Total Lead	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Manganese	0.02	mg/L	0.005	1.	13	9/28/2017	
EPA 200.8 (T)	Total Manganese	0.02	mg/L	0.005	1.	13	9/28/2017	Dup-BL0917B0414
EPA 200.8 (T)	Total Nickel	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Nickel	< 0.001	mg/L	0.001	1.	13	9/28/2017	Dup-BL0917B0414
EPA 415.1 (T) Ox	Total Organic Carbon	3.3	mg/L as C	0.5	1.	67	9/28/2017	
EPA 365.4	Total Phosphorus	0.14	mg/L as P	0.01	1.	86	10/13/2017	
EPA 200.8 (T)	Total Selenium	< 0.001	mg/L	0.001	1.	13	9/28/2017	Dup-BL0917B0414
EPA 200.8 (T)	Total Selenium	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Silver	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Silver	< 0.001	mg/L	0.001	1.	13	9/28/2017	Dup-BL0917B0414
EPA 160.2	Total Suspended Solids	1	mg/L	1.	1.	67	9/27/2017	
EPA 200.8 (T)	Total Zinc	0.02	mg/L	0.005	1.	13	9/28/2017	
EPA 200.8 (T)	Total Zinc	0.02	mg/L	0.005	1.	13	9/28/2017	Dup-BL0917B0414

Sample Number **BL0917B0415** ***Inorganic Analytical Results***

BL0917B0415 ***Sample Type(Purpose):*** Normal Sample ***Depth:*** 3 Ft. ***Collection Date:*** 09/25/2017 12:00

StationNumber: Piru Cr 1.5mi DS ***StationName:*** Piru Cr @ 1.5mi DS ***Matrix:*** Water, Natural ***Cost Code:*** 30375000

Sample Condition: 2.0 °C when received. Iced.

Method	*Analyte*	*Result*	*Units*	*R.L.*	*Dilution*	*ChemID*	*Analysis Date*	*Flags and Notes:*
EPA 200.8 (D)	Dissolved Aluminum	< 0.01	mg/L	0.01	1.	13	10/5/2017	
EPA 350.1 (D)	Dissolved Ammonia	0.02	mg/L as N	0.01	1.	86	10/10/2017	
EPA 200.8 (D)	Dissolved Antimony	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Arsenic	0.002	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Barium	0.02	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Beryllium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Cadmium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.7 (D)	Dissolved Calcium	22	mg/L	1.	1.	10	9/29/2017	
EPA 300.0 28d Hold	Dissolved Chloride	32	mg/L	1.	1.	9	9/28/2017	
EPA 200.8 (D)	Dissolved Chromium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Copper	< 0.001	mg/L	0.001	1.	13	10/5/2017	
Std Method 2340 B	Dissolved Hardness	111	mg/L as CaCO3	1.	1.	10	9/29/2017	

Sample Number **BL0917B0415** ***Inorganic Analytical Results***

EPA 200.8 (D)	Dissolved Iron	< 0.005	mg/L	0.005	1.	13	10/5/2017
EPA 200.8 (D)	Dissolved Lead	< 0.001	mg/L	0.001	1.	13	10/5/2017
EPA 200.7 (D)	Dissolved Magnesium	14	mg/L	1.	1.	10	9/29/2017
EPA 200.8 (D)	Dissolved Manganese	< 0.005	mg/L	0.005	1.	13	10/5/2017
EPA 200.8 (D)	Dissolved Nickel	< 0.001	mg/L	0.001	1.	13	10/5/2017
Std Method 4500-NO3-F (28	Dissolved Nitrate + Nitrite	0.34	mg/L as N	0.01	1.	86	10/10/2017
EPA 415.1 (D) Ox	Dissolved Organic Carbon	3.1	mg/L as C	0.5	1.	67	9/28/2017
EPA 365.1 (DWR Modified)	Dissolved Ortho-phosphate	0.08	mg/L as P	0.01	1.	86	10/10/2017
EPA 200.7 (D)	Dissolved Potassium	2.4	mg/L	0.5	1.	10	9/29/2017
EPA 200.8 (D)	Dissolved Selenium	< 0.001	mg/L	0.001	1.	13	10/5/2017
EPA 200.8 (D)	Dissolved Silver	< 0.001	mg/L	0.001	1.	13	10/5/2017
EPA 200.7 (D)	Dissolved Sodium	35	mg/L	1.	1.	10	9/29/2017
EPA 300.0 28d Hold	Dissolved Sulfate	69	mg/L	1.	1.	9	9/28/2017
EPA 200.8 (D)	Dissolved Zinc	< 0.005	mg/L	0.005	1.	13	10/5/2017
Std Method 2320 B	pH	7.2	pH Units	0.1	1.	20	9/26/2017
Std Method 2510-B	Specific Conductance	392	µS/cm@25°C	1.	1.	20	9/26/2017
Std Method 2320 B	Total Alkalinity	69	mg/L as CaCO3	1.	1.	20	9/26/2017
EPA 200.8 (T)	Total Aluminum	0.03	mg/L	0.01	1.	13	9/28/2017
EPA 200.8 (T)	Total Antimony	< 0.001	mg/L	0.001	1.	13	9/28/2017
EPA 200.8 (T)	Total Arsenic	0.003	mg/L	0.001	1.	13	9/28/2017
EPA 200.8 (T)	Total Barium	0.022	mg/L	0.005	1.	13	9/28/2017
EPA 200.8 (T)	Total Beryllium	< 0.001	mg/L	0.001	1.	13	9/28/2017
EPA 200.8 (T)	Total Cadmium	< 0.001	mg/L	0.001	1.	13	9/28/2017
EPA 200.8 (T)	Total Chromium	< 0.001	mg/L	0.001	1.	13	9/28/2017
EPA 200.8 (T)	Total Copper	< 0.001	mg/L	0.001	1.	13	9/28/2017
Std Method 2540 C	Total Dissolved Solids	231	mg/L	1.	1.	20	9/28/2017
EPA 200.8 (T)	Total Iron	0.1	mg/L	0.005	1.	13	9/28/2017
EPA 351.2	Total Kjeldahl Nitrogen	0.1	mg/L as N	0.1	1.	86	10/13/2017
EPA 200.8 (T)	Total Lead	< 0.001	mg/L	0.001	1.	13	9/28/2017
EPA 200.8 (T)	Total Manganese	0.01	mg/L	0.005	1.	13	9/28/2017
EPA 200.8 (T)	Total Nickel	< 0.001	mg/L	0.001	1.	13	9/28/2017
EPA 415.1 (T) Ox	Total Organic Carbon	3.2	mg/L as C	0.5	1.	67	9/28/2017
EPA 365.4	Total Phosphorus	0.08	mg/L as P	0.01	1.	86	10/13/2017
EPA 200.8 (T)	Total Selenium	< 0.001	mg/L	0.001	1.	13	9/28/2017
EPA 200.8 (T)	Total Silver	< 0.001	mg/L	0.001	1.	13	9/28/2017
EPA 160.2	Total Suspended Solids	3	mg/L	1.	1.	67	9/27/2017
EPA 200.8 (T)	Total Zinc	< 0.005	mg/L	0.005	1.	13	9/28/2017

Sample Number **BL0917B0416** ***Inorganic Analytical Results***

BL0917B0416 ***Sample Type(Purpose):*** Normal Sample ***Depth:*** 3 Ft. ***Collection Date:*** 09/25/2017 13:00

StationNumber: Piru Cr 3.0mi DS ***StationName:*** Piru Cr @ 3.0mi DS ***Matrix:*** Water, Natural ***Cost Code:*** 30375000

Sample Condition: 2.0 °C when received. Iced.

Method	*Analyte*	*Result*	*Units*	*R.L.*	*Dilution*	*ChemID*	*Analysis Date*	*Flags and Notes:*
EPA 200.8 (D)	Dissolved Aluminum	0.05	mg/L	0.01	1.	13	10/5/2017	
EPA 350.1 (D)	Dissolved Ammonia	< 0.01	mg/L as N	0.01	1.	86	10/10/2017	
EPA 200.8 (D)	Dissolved Antimony	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Arsenic	0.002	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Barium	0.027	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Beryllium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Cadmium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.7 (D)	Dissolved Calcium	43	mg/L	1.	1.	10	9/29/2017	
EPA 300.0 28d Hold	Dissolved Chloride	48	mg/L	1.	1.	9	9/28/2017	
EPA 200.8 (D)	Dissolved Chromium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Copper	< 0.001	mg/L	0.001	1.	13	10/5/2017	
Std Method 2340 B	Dissolved Hardness	209	mg/L as CaCO3	1.	1.	10	9/29/2017	
EPA 200.8 (D)	Dissolved Iron	0.1	mg/L	0.005	1.	13	10/5/2017	

Report of Analytical Results, Cont

Inorganic Analytical Results

Sample Number **BL0917B0416**

EPA 200.8 (D)	Dissolved Lead	< 0.001	mg/L	0.001	1.	13	10/5/2017		
EPA 200.7 (D)	Dissolved Magnesium	25	mg/L	1.	1.	10	9/29/2017		
EPA 200.8 (D)	Dissolved Manganese	0.03	mg/L	0.005	1.	13	10/5/2017		
EPA 200.8 (D)	Dissolved Nickel	< 0.001	mg/L	0.001	1.	13	10/5/2017		
Std Method 4500-NO3-F (28	Dissolved Nitrate + Nitrite	0.11	mg/L as N	0.01	1.	86	10/10/2017		
EPA 415.1 (D) Ox	Dissolved Organic Carbon	2.7	mg/L as C	0.5	1.	67	9/28/2017		
EPA 365.1 (DWR Modified)	Dissolved Ortho-phosphate	0.04	mg/L as P	0.01	1.	86	10/10/2017		
EPA 200.7 (D)	Dissolved Potassium	3.1	mg/L	0.5	1.	10	9/29/2017		
EPA 200.8 (D)	Dissolved Selenium	< 0.001	mg/L	0.001	1.	13	10/5/2017		
EPA 200.8 (D)	Dissolved Silver	< 0.001	mg/L	0.001	1.	13	10/5/2017		
EPA 200.7 (D)	Dissolved Sodium	69	mg/L	1.	1.	10	9/29/2017		
EPA 300.0 28d Hold	Dissolved Sulfate	141	mg/L	5.	5.	9	9/28/2017	R4	Dil-BL0917B0416
EPA 200.8 (D)	Dissolved Zinc	< 0.005	mg/L	0.005	1.	13	10/5/2017		
Std Method 2320 B	pH	7.9	pH Units	0.1	1.	20	9/26/2017		
Std Method 2510-B	Specific Conductance	671	µS/cm@25°C	1.	1.	20	9/26/2017		
Std Method 2320 B	Total Alkalinity	116	mg/L as CaCO3	1.	1.	20	9/26/2017		
EPA 200.8 (T)	Total Aluminum	0.07	mg/L	0.01	1.	13	9/28/2017		
EPA 200.8 (T)	Total Antimony	< 0.001	mg/L	0.001	1.	13	9/28/2017		
EPA 200.8 (T)	Total Arsenic	0.002	mg/L	0.001	1.	13	9/28/2017		
EPA 200.8 (T)	Total Barium	0.029	mg/L	0.005	1.	13	9/28/2017		
EPA 200.8 (T)	Total Beryllium	< 0.001	mg/L	0.001	1.	13	9/28/2017		
EPA 200.8 (T)	Total Cadmium	< 0.001	mg/L	0.001	1.	13	9/28/2017		
EPA 200.8 (T)	Total Chromium	< 0.001	mg/L	0.001	1.	13	9/28/2017		
EPA 200.8 (T)	Total Copper	< 0.001	mg/L	0.001	1.	13	9/28/2017		
Std Method 2540 C	Total Dissolved Solids	422	mg/L	1.	1.	20	9/28/2017		
EPA 200.8 (T)	Total Iron	0.2	mg/L	0.005	1.	13	9/28/2017		
EPA 351.2	Total Kjeldahl Nitrogen	0.2	mg/L as N	0.1	1.	86	10/13/2017		
EPA 200.8 (T)	Total Lead	< 0.001	mg/L	0.001	1.	13	9/28/2017		
EPA 200.8 (T)	Total Manganese	0.03	mg/L	0.005	1.	13	9/28/2017		
EPA 200.8 (T)	Total Nickel	< 0.001	mg/L	0.001	1.	13	9/28/2017		
EPA 415.1 (T) Ox	Total Organic Carbon	2.7	mg/L as C	0.5	1.	67	9/28/2017		
EPA 365.4	Total Phosphorus	0.04	mg/L as P	0.01	1.	86	10/13/2017		
EPA 200.8 (T)	Total Selenium	< 0.001	mg/L	0.001	1.	13	9/28/2017		
EPA 200.8 (T)	Total Silver	< 0.001	mg/L	0.001	1.	13	9/28/2017		
EPA 160.2	Total Suspended Solids	4	mg/L	1.	1.	67	9/27/2017		Dup-BL0917B0416
EPA 160.2	Total Suspended Solids	4	mg/L	1.	1.	67	9/27/2017		Duplicate
EPA 200.8 (T)	Total Zinc	< 0.005	mg/L	0.005	1.	13	9/28/2017		

DWR Bryte Analytical Lab

1450 Riverbank Road, West Sacramento, CA 95605

Report of Analytical Results

20-Oct-17

Submittal Name: FERC - Pyramid, Quail, Piru

Submittal ID: BL0917B0021a

These results are also available to DWR staff in electronic form via the DWR Water Data Library (WDL) http://wdl.water.ca.gov. Contact Kelley Pepper (kelley.pepper@water.ca.gov) to set up access.

(First) Collection Date: 09/26/2017 10:45

Received Date: 09/27/2017 11:30

Report to:

Charles Vertucci

, CA

Priority: 5

Submitted By: Charles Vertucci

Received By: Pepper, Kelley

Instructions to Lab:

Samples:

BL0917B0404	BL0917B0405	BL0917B0406	BL0917B0407	

Analyst Summary:

20 - Chan, Elaine	67 - Hicks, Matt	9 - Pineda, Maritza	10 - Quiambao, Josie	86 - Stroke, Ashley
13 - Thind, Pritam				

Submittal Review Notes From Lab:

Report of Field Results

Sample Number BL0917B0404 — **Field Results**

StationNumber:	StationName	Matrix	Cost Code:	Collection Date
QU Nr Cntr	Quail Lake Nr Center	Water, Natural	30375000	9/26/2017 10:45 AM

Method	Analyte	Result	Rpt.Lmt.	Units	Time	Footnotes
Specific Conductance	Specific Conductance	218	1	µS/cm@25°C		

Sample Number BL0917B0405 — **Field Results**

StationNumber:	StationName	Matrix	Cost Code:	Collection Date
QU Nr Cntr B	Quail Lake Nr Cntr B	Water, Natural	30375000	9/26/2017 11:30 AM

Method	Analyte	Result	Rpt.Lmt.	Units	Time	Footnotes
Specific Conductance	Electrical Conductance	214	1	µS/cm@25°C		

Sample Number BL0917B0406 — **Field Results**

StationNumber:	StationName	Matrix	Cost Code:	Collection Date
QU Nr OL	Quail Lake Nr Outlet	Water, Natural	30375000	9/26/2017 12:45 PM

Method	Analyte	Result	Rpt.Lmt.	Units	Time	Footnotes
Specific Conductance	Specific Conductance	214	1	µS/cm@25°C		

Sample Number BL0917B0407 — **Field Results**

StationNumber:	StationName	Matrix	Cost Code:	Collection Date
QU Nr OL B	Quail Lk Nr Outlet B	Water, Natural	30375000	9/26/2017 12:20 PM

Method	Analyte	Result	Rpt.Lmt.	Units	Time	Footnotes
Specific Conductance	Electrical Conductance	214	1	µS/cm@25°C		

Report of Inorganic Analytical Results

Including Misc Physical Measurements

Sample Number BL0917B0404 — **Inorganic Analytical Results**

BL0917B0404 *Sample Type(Purpose):* Normal Sample *Depth:* 3 Ft. *Collection Date:* 09/26/2017 10:45

StationNumber: QU Nr Cntr *StationName:* Quail Lake Nr Center *Matrix:* Water, Natural *Cost Code:* 30375000

Sample Condition: 1.0 °C when received. Iced.

Method	Analyte	Result	Units	R.L.	Dilution	ChemID	Analysis Date	Flags and Notes:
EPA 200.8 (D)	Dissolved Aluminum	< 0.01	mg/L	0.01	1.	13	10/5/2017	
EPA 350.1 (D)	Dissolved Ammonia	0.04	mg/L as N	0.01	1.	86	10/10/2017	
EPA 200.8 (D)	Dissolved Antimony	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Arsenic	0.002	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Barium	0.021	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Beryllium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Cadmium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.7 (D)	Dissolved Calcium	11	mg/L	1.	1.	10	9/29/2017	
EPA 300.0 28d Hold	Dissolved Chloride	27	mg/L	1.	1.	9	9/27/2017	
EPA 200.8 (D)	Dissolved Chromium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Copper	< 0.001	mg/L	0.001	1.	13	10/5/2017	
Std Method 2340 B	Dissolved Hardness	54	mg/L as CaCO3	1.	1.	10	9/29/2017	
EPA 200.8 (D)	Dissolved Iron	< 0.005	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Lead	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.7 (D)	Dissolved Magnesium	7	mg/L	1.	1.	10	9/29/2017	
EPA 200.8 (D)	Dissolved Manganese	< 0.005	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Nickel	< 0.001	mg/L	0.001	1.	13	10/5/2017	
Std Method 4500-NO3-F (28	Dissolved Nitrate + Nitrite	0.21	mg/L as N	0.01	1.	86	10/10/2017	
EPA 415.1 (D) Ox	Dissolved Organic Carbon	2.8	mg/L as C	0.5	1.	67	9/28/2017	
EPA 365.1 (DWR Modified)	Dissolved Ortho-phosphate	0.1	mg/L as P	0.01	1.	86	10/10/2017	

N.A.=Not Analyzed R.L.=Reporting Limit (Reporting Limits Adjusted For Dilution)

Sample Number **BL0917B0404** ***Inorganic Analytical Results***

EPA 200.7 (D)	Dissolved Potassium	1.9	mg/L	0.5	1.	10	9/29/2017
EPA 200.8 (D)	Dissolved Selenium	< 0.001	mg/L	0.001	1.	13	10/5/2017
EPA 200.8 (D)	Dissolved Silver	< 0.001	mg/L	0.001	1.	13	10/5/2017
EPA 200.7 (D)	Dissolved Sodium	21	mg/L	1.	1.	10	9/29/2017
EPA 300.0 28d Hold	Dissolved Sulfate	14	mg/L	1.	1.	9	9/27/2017
EPA 200.8 (D)	Dissolved Zinc	< 0.005	mg/L	0.005	1.	13	10/5/2017
Std Method 2320 B	pH	7.4	pH Units	0.1	1.	20	9/29/2017
Std Method 2510-B	Specific Conductance	224	µS/cm@25°C	1.	1.	20	9/29/2017
Std Method 2320 B	Total Alkalinity	49	mg/L as CaCO3	1.	1.	20	9/29/2017
EPA 200.8 (T)	Total Aluminum	0.04	mg/L	0.01	1.	13	9/28/2017
EPA 200.8 (T)	Total Antimony	< 0.001	mg/L	0.001	1.	13	9/28/2017
EPA 200.8 (T)	Total Arsenic	0.002	mg/L	0.001	1.	13	9/28/2017
EPA 200.8 (T)	Total Barium	0.023	mg/L	0.005	1.	13	9/28/2017
EPA 200.8 (T)	Total Beryllium	< 0.001	mg/L	0.001	1.	13	9/28/2017
EPA 200.8 (T)	Total Cadmium	< 0.001	mg/L	0.001	1.	13	9/28/2017
EPA 200.8 (T)	Total Chromium	< 0.001	mg/L	0.001	1.	13	9/28/2017
EPA 200.8 (T)	Total Copper	< 0.001	mg/L	0.001	1.	13	9/28/2017
Std Method 2540 C	Total Dissolved Solids	124	mg/L	1.	1.	20	9/28/2017
EPA 200.8 (T)	Total Iron	0.1	mg/L	0.005	1.	13	9/28/2017
EPA 351.2	Total Kjeldahl Nitrogen	0.3	mg/L as N	0.1	1.	86	10/13/2017
EPA 200.8 (T)	Total Lead	< 0.001	mg/L	0.001	1.	13	9/28/2017
EPA 200.8 (T)	Total Manganese	0.01	mg/L	0.005	1.	13	9/28/2017
EPA 200.8 (T)	Total Nickel	< 0.001	mg/L	0.001	1.	13	9/28/2017
EPA 415.1 (T) Ox	Total Organic Carbon	2.9	mg/L as C	0.5	1.	67	9/28/2017
EPA 365.4	Total Phosphorus	0.11	mg/L as P	0.01	1.	86	10/13/2017
EPA 200.8 (T)	Total Selenium	< 0.001	mg/L	0.001	1.	13	9/28/2017
EPA 200.8 (T)	Total Silver	< 0.001	mg/L	0.001	1.	13	9/28/2017
EPA 160.2	Total Suspended Solids	4	mg/L	1.	1.	67	9/28/2017
EPA 200.8 (T)	Total Zinc	< 0.005	mg/L	0.005	1.	13	9/28/2017

Sample Number **BL0917B0405** ***Inorganic Analytical Results***

BL0917B0405 ***Sample Type(Purpose):*** Normal Sample ***Depth:*** 50 Ft ***Collection Date:*** 09/26/2017 11:30

StationNumber: QU Nr Cntr B ***StationName:*** Quail Lake Nr Cntr B ***Matrix:*** Water, Natural ***Cost Code:*** 30375000

Sample Condition: 1.0 °C when received. Iced.

Method	*Analyte*	*Result*	*Units*	*R.L.*	*Dilution*	*ChemID*	*Analysis Date*	*Flags and Notes:*
EPA 200.8 (D)	Dissolved Aluminum	0.01	mg/L	0.01	1.	13	10/5/2017	
EPA 350.1 (D)	Dissolved Ammonia	0.04	mg/L as N	0.01	1.	86	10/10/2017	
EPA 200.8 (D)	Dissolved Antimony	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Arsenic	0.002	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Barium	0.021	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Beryllium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Cadmium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.7 (D)	Dissolved Calcium	11	mg/L	1.	1.	10	9/29/2017	
EPA 300.0 28d Hold	Dissolved Chloride	27	mg/L	1.	1.	9	9/28/2017	Dup-BL0917B0405
EPA 300.0 28d Hold	Dissolved Chloride	27	mg/L	1.	1.	9	9/27/2017	
EPA 200.8 (D)	Dissolved Chromium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Copper	< 0.001	mg/L	0.001	1.	13	10/5/2017	
Std Method 2340 B	Dissolved Hardness	55	mg/L as CaCO3	1.	1.	10	9/29/2017	
EPA 200.8 (D)	Dissolved Iron	< 0.005	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Lead	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.7 (D)	Dissolved Magnesium	7	mg/L	1.	1.	10	9/29/2017	
EPA 200.8 (D)	Dissolved Manganese	< 0.005	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Nickel	< 0.001	mg/L	0.001	1.	13	10/5/2017	
Std Method 4500-NO3-F (28	Dissolved Nitrate + Nitrite	0.2	mg/L as N	0.01	1.	86	10/10/2017	
EPA 415.1 (D) Ox	Dissolved Organic Carbon	2.8	mg/L as C	0.5	1.	67	9/28/2017	
EPA 365.1 (DWR Modified)	Dissolved Ortho-phosphate	0.1	mg/L as P	0.01	1.	86	10/10/2017	

Sample Number **BL0917B0405** ***Inorganic Analytical Results***

EPA 200.7 (D)	Dissolved Potassium	1.7	mg/L	0.5	1.	10	9/29/2017	
EPA 200.8 (D)	Dissolved Selenium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Silver	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.7 (D)	Dissolved Sodium	21	mg/L	1.	1.	10	9/29/2017	
EPA 300.0 28d Hold	Dissolved Sulfate	14	mg/L	1.	1.	9	9/27/2017	
EPA 300.0 28d Hold	Dissolved Sulfate	14	mg/L	1.	1.	9	9/28/2017	Dup-BL0917B0405
EPA 200.8 (D)	Dissolved Zinc	< 0.005	mg/L	0.005	1.	13	10/5/2017	
Std Method 2320 B	pH	7.3	pH Units	0.1	1.	20	9/29/2017	
Std Method 2510-B	Specific Conductance	223	µS/cm@25°C	1.	1.	20	9/29/2017	
Std Method 2320 B	Total Alkalinity	49	mg/L as CaCO3	1.	1.	20	9/29/2017	
EPA 200.8 (T)	Total Aluminum	0.06	mg/L	0.01	1.	13	9/28/2017	
EPA 200.8 (T)	Total Antimony	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Arsenic	0.002	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Barium	0.023	mg/L	0.005	1.	13	9/28/2017	
EPA 200.8 (T)	Total Beryllium	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Cadmium	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Chromium	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Copper	< 0.001	mg/L	0.001	1.	13	9/28/2017	
Std Method 2540 C	Total Dissolved Solids	124	mg/L	1.	1.	20	9/28/2017	
EPA 200.8 (T)	Total Iron	0.1	mg/L	0.005	1.	13	9/28/2017	
EPA 351.2	Total Kjeldahl Nitrogen	< 0.1	mg/L as N	0.1	1.	86	10/13/2017	
EPA 200.8 (T)	Total Lead	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Manganese	0.02	mg/L	0.005	1.	13	9/28/2017	
EPA 200.8 (T)	Total Nickel	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 415.1 (T) Ox	Total Organic Carbon	2.9	mg/L as C	0.5	1.	67	9/28/2017	
EPA 365.4	Total Phosphorus	0.14	mg/L as P	0.01	1.	86	10/13/2017	
EPA 200.8 (T)	Total Selenium	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Silver	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 160.2	Total Suspended Solids	5	mg/L	1.	1.	67	9/28/2017	
EPA 200.8 (T)	Total Zinc	< 0.005	mg/L	0.005	1.	13	9/28/2017	

Sample Number **BL0917B0406** ***Inorganic Analytical Results***

BL0917B0406 ***Sample Type(Purpose):*** Normal Sample ***Depth:*** 3 Ft. ***Collection Date:*** 09/26/2017 12:45

StationNumber: QU Nr OL ***StationName:*** Quail Lake Nr Outlet ***Matrix:*** Water, Natural ***Cost Code:*** 30375000

Sample Condition: 1.0 °C when received. Iced.

Method	*Analyte*	*Result*	*Units*	*R.L.*	*Dilution*	*ChemID*	*Analysis Date*	*Flags and Notes:*
EPA 200.8 (D)	Dissolved Aluminum	< 0.01	mg/L	0.01	1.	13	10/5/2017	
EPA 350.1 (D)	Dissolved Ammonia	0.04	mg/L as N	0.01	1.	86	10/10/2017	
EPA 200.8 (D)	Dissolved Antimony	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Arsenic	0.002	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Barium	0.021	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Beryllium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Cadmium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.7 (D)	Dissolved Calcium	11	mg/L	1.	1.	10	9/29/2017	
EPA 300.0 28d Hold	Dissolved Chloride	27	mg/L	1.	1.	9	9/28/2017	
EPA 200.8 (D)	Dissolved Chromium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Copper	< 0.001	mg/L	0.001	1.	13	10/5/2017	
Std Method 2340 B	Dissolved Hardness	54	mg/L as CaCO3	1.	1.	10	9/29/2017	
EPA 200.8 (D)	Dissolved Iron	< 0.005	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Lead	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.7 (D)	Dissolved Magnesium	7	mg/L	1.	1.	10	9/29/2017	
EPA 200.8 (D)	Dissolved Manganese	< 0.005	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Nickel	< 0.001	mg/L	0.001	1.	13	10/5/2017	
Std Method 4500-NO3-F (28	Dissolved Nitrate + Nitrite	0.21	mg/L as N	0.01	1.	86	10/10/2017	
EPA 415.1 (D) Ox	Dissolved Organic Carbon	2.8	mg/L as C	0.5	1.	67	9/28/2017	Dup-BL0917B0406
EPA 415.1 (D) Ox	Dissolved Organic Carbon	2.8	mg/L as C	0.5	1.	67	9/28/2017	Duplicate

Sample Number **BL0917B0406** ***Inorganic Analytical Results***

EPA 365.1 (DWR Modified)	Dissolved Ortho-phosphate	0.1	mg/L as P	0.01	1.	86	10/10/2017	
EPA 200.7 (D)	Dissolved Potassium	1.8	mg/L	0.5	1.	10	9/29/2017	
EPA 200.8 (D)	Dissolved Selenium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Silver	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.7 (D)	Dissolved Sodium	21	mg/L	1.	1.	10	9/29/2017	
EPA 300.0 28d Hold	Dissolved Sulfate	14	mg/L	1.	1.	9	9/28/2017	
EPA 200.8 (D)	Dissolved Zinc	< 0.005	mg/L	0.005	1.	13	10/5/2017	
Std Method 2320 B	pH	7.3	pH Units	0.1	1.	20	9/29/2017	
Std Method 2510-B	Specific Conductance	222	µS/cm@25°C	1.	1.	20	9/29/2017	
Std Method 2320 B	Total Alkalinity	49	mg/L as CaCO3	1.	1.	20	9/29/2017	
EPA 200.8 (T)	Total Aluminum	0.04	mg/L	0.01	1.	13	9/28/2017	
EPA 200.8 (T)	Total Antimony	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Arsenic	0.002	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Barium	0.023	mg/L	0.005	1.	13	9/28/2017	
EPA 200.8 (T)	Total Beryllium	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Cadmium	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Chromium	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Copper	< 0.001	mg/L	0.001	1.	13	9/28/2017	
Std Method 2540 C	Total Dissolved Solids	123	mg/L	1.	1.	20	9/28/2017	
EPA 200.8 (T)	Total Iron	0.1	mg/L	0.005	1.	13	9/28/2017	
EPA 351.2	Total Kjeldahl Nitrogen	0.3	mg/L as N	0.1	1.	86	10/13/2017	
EPA 200.8 (T)	Total Lead	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Manganese	0.01	mg/L	0.005	1.	13	9/28/2017	
EPA 200.8 (T)	Total Nickel	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 415.1 (T) Ox	Total Organic Carbon	2.9	mg/L as C	0.5	1.	67	9/28/2017	Duplicate
EPA 415.1 (T) Ox	Total Organic Carbon	3	mg/L as C	0.5	1.	67	9/28/2017	Dup-BL0917B0406
EPA 365.4	Total Phosphorus	0.1	mg/L as P	0.01	1.	86	10/13/2017	
EPA 200.8 (T)	Total Selenium	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Silver	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 160.2	Total Suspended Solids	3	mg/L	1.	1.	67	9/28/2017	
EPA 200.8 (T)	Total Zinc	< 0.005	mg/L	0.005	1.	13	9/28/2017	

Sample Number **BL0917B0407** ***Inorganic Analytical Results***

BL0917B0407 ***Sample Type(Purpose):*** Normal Sample ***Depth:*** 50 Ft ***Collection Date:*** 09/26/2017 12:20

StationNumber: QU Nr OL B ***StationName:*** Quail Lk Nr Outlet B ***Matrix:*** Water, Natural ***Cost Code:*** 30375000

Sample Condition: 1.0 °C when received. Iced.

Method	*Analyte*	*Result*	*Units*	*R.L.*	*Dilution*	*ChemID*	*Analysis Date*	*Flags and Notes:*
EPA 200.8 (D)	Dissolved Aluminum	0.01	mg/L	0.01	1.	13	10/5/2017	
EPA 350.1 (D)	Dissolved Ammonia	0.04	mg/L as N	0.01	1.	86	10/10/2017	
EPA 200.8 (D)	Dissolved Antimony	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Arsenic	0.002	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Barium	0.021	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Beryllium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Cadmium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.7 (D)	Dissolved Calcium	11	mg/L	1.	1.	10	9/29/2017	
EPA 300.0 28d Hold	Dissolved Chloride	26	mg/L	1.	1.	9	9/28/2017	
EPA 200.8 (D)	Dissolved Chromium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Copper	< 0.001	mg/L	0.001	1.	13	10/5/2017	
Std Method 2340 B	Dissolved Hardness	55	mg/L as CaCO3	1.	1.	10	9/29/2017	
EPA 200.8 (D)	Dissolved Iron	< 0.005	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Lead	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.7 (D)	Dissolved Magnesium	7	mg/L	1.	1.	10	9/29/2017	
EPA 200.8 (D)	Dissolved Manganese	< 0.005	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Nickel	< 0.001	mg/L	0.001	1.	13	10/5/2017	
Std Method 4500-NO3-F (28	Dissolved Nitrate + Nitrite	0.19	mg/L as N	0.01	1.	86	10/10/2017	
EPA 415.1 (D) Ox	Dissolved Organic Carbon	2.8	mg/L as C	0.5	1.	67	9/28/2017	Matrix Spike

Report of Analytical Results, Cont

Sample Number **BL0917B0407** *Inorganic Analytical Results*

EPA 365.1 (DWR Modified)	Dissolved Ortho-phosphate	0.09	mg/L as P	0.01	1.	86	10/10/2017	
EPA 200.7 (D)	Dissolved Potassium	1.8	mg/L	0.5	1.	10	9/29/2017	
EPA 200.8 (D)	Dissolved Selenium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Silver	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.7 (D)	Dissolved Sodium	21	mg/L	1.	1.	10	9/29/2017	
EPA 300.0 28d Hold	Dissolved Sulfate	14	mg/L	1.	1.	9	9/28/2017	
EPA 200.8 (D)	Dissolved Zinc	< 0.005	mg/L	0.005	1.	13	10/5/2017	
Std Method 2320 B	pH	7.3	pH Units	0.1	1.	20	9/29/2017	
Std Method 2510-B	Specific Conductance	221	µS/cm@25°C	1.	1.	20	9/29/2017	
Std Method 2320 B	Total Alkalinity	49	mg/L as CaCO3	1.	1.	20	9/29/2017	
EPA 200.8 (T)	Total Aluminum	0.04	mg/L	0.01	1.	13	9/28/2017	
EPA 200.8 (T)	Total Antimony	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Arsenic	0.002	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Barium	0.023	mg/L	0.005	1.	13	9/28/2017	
EPA 200.8 (T)	Total Beryllium	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Cadmium	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Chromium	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Copper	< 0.001	mg/L	0.001	1.	13	9/28/2017	
Std Method 2540 C	Total Dissolved Solids	123	mg/L	1.	1.	20	9/28/2017	
EPA 200.8 (T)	Total Iron	0.1	mg/L	0.005	1.	13	9/28/2017	
EPA 351.2	Total Kjeldahl Nitrogen	0.3	mg/L as N	0.1	1.	86	10/13/2017	
EPA 200.8 (T)	Total Lead	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Manganese	0.02	mg/L	0.005	1.	13	9/28/2017	
EPA 200.8 (T)	Total Nickel	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 415.1 (T) Ox	Total Organic Carbon	2.9	mg/L as C	0.5	1.	67	9/28/2017	Matrix Spike
EPA 365.4	Total Phosphorus	0.1	mg/L as P	0.01	1.	86	10/13/2017	
EPA 200.8 (T)	Total Selenium	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Silver	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 160.2	Total Suspended Solids	3	mg/L	1.	1.	67	9/28/2017	
EPA 200.8 (T)	Total Zinc	< 0.005	mg/L	0.005	1.	13	9/28/2017	

DWR Bryte Analytical Lab

1450 Riverbank Road, West Sacramento, CA 95605

Report of Analytical Results

20-Oct-17

Submittal Name: FERC - Pyramid, Quail, Piru

Submittal ID: BL0917B0021aa

These results are also available to DWR staff in electronic form via the DWR Water Data Library (WDL) http://wdl.water.ca.gov. Contact Kelley Pepper (kelley.pepper@water.ca.gov) to set up access.

(First) Collection Date: 09/27/2017 08:30

Received Date: 09/28/2017 11:07

Report to:

Charles Vertucci

, CA

Priority: 5

Submitted By: Charles Vertucci

Received By: Wong, Allan

Instructions to Lab:

Samples:

BL0917B0417	BL0917B0418	BL0917B0419

Analyst Summary:

20 - Chan, Elaine	67 - Hicks, Matt	9 - Pineda, Maritza	10 - Quiambao, Josie	86 - Stroke, Ashley
13 - Thind, Pritam				

Submittal Review Notes From Lab:

Report of Field Results

Sample Number BL0917B0417 **Field Results**

StationNumber:	StationName	Matrix	Cost Code:	Collection Date
Piru Cr Nr BP	Piru Cr Nr Blue Pt	Water, Natural	30375000	9/27/2017 11:00 AM

Method	Analyte	Result	Rpt.Lmt.	Units	Time	Footnotes
Specific Conductance	Specific Conductance	1490	1	µS/cm@25°C		

Report of Inorganic Analytical Results

Including Misc Physical Measurements

Sample Number BL0917B0417 **Inorganic Analytical Results**

BL0917B0417 *Sample Type(Purpose):* Normal Sample *Depth:* 3 Ft. *Collection Date:* 09/27/2017 11:00

StationNumber: Piru Cr Nr BP *StationName:* Piru Cr Nr Blue Pt *Matrix:* Water, Natural *Cost Code:* 30375000

Sample Condition: 1.0 °C when received. Iced. Nutrients were frozen within the required time.

Method	Analyte	Result	Units	R.L.	Dilution	ChemID	Analysis Date	Flags and Notes:	
EPA 200.8 (D)	Dissolved Aluminum	< 0.01	mg/L	0.01	1.	13	10/5/2017		
EPA 350.1 (D)	Dissolved Ammonia	< 0.01	mg/L as N	0.01	1.	86	10/10/2017		
EPA 200.8 (D)	Dissolved Antimony	< 0.001	mg/L	0.001	1.	13	10/5/2017		
EPA 200.8 (D)	Dissolved Arsenic	0.001	mg/L	0.001	1.	13	10/5/2017		
EPA 200.8 (D)	Dissolved Barium	0.05	mg/L	0.005	1.	13	10/5/2017		
EPA 200.8 (D)	Dissolved Beryllium	< 0.001	mg/L	0.001	1.	13	10/5/2017		
EPA 200.8 (D)	Dissolved Cadmium	< 0.001	mg/L	0.001	1.	13	10/5/2017		
EPA 200.7 (D)	Dissolved Calcium	141	mg/L	1.	1.	10	9/29/2017		
EPA 300.0 28d Hold	Dissolved Chloride	94	mg/L	1.	1.	9	9/29/2017		
EPA 200.8 (D)	Dissolved Chromium	< 0.001	mg/L	0.001	1.	13	10/5/2017		
EPA 200.8 (D)	Dissolved Copper	< 0.001	mg/L	0.001	1.	13	10/5/2017		
Std Method 2340 B	Dissolved Hardness	579	mg/L as CaCO3	1.	1.	10	9/29/2017		
EPA 200.8 (D)	Dissolved Iron	0.024	mg/L	0.005	1.	13	10/5/2017		
EPA 200.8 (D)	Dissolved Lead	< 0.001	mg/L	0.001	1.	13	10/5/2017		
EPA 200.7 (D)	Dissolved Magnesium	55	mg/L	1.	1.	10	9/29/2017		
EPA 200.8 (D)	Dissolved Manganese	< 0.005	mg/L	0.005	1.	13	10/5/2017		
EPA 200.8 (D)	Dissolved Nickel	0.004	mg/L	0.001	1.	13	10/5/2017		
Std Method 4500-NO3-F (28	Dissolved Nitrate + Nitrite	0.09	mg/L as N	0.01	1.	86	10/10/2017		
EPA 415.1 (D) Ox	Dissolved Organic Carbon	1.9	mg/L as C	0.5	1.	67	10/2/2017		
EPA 365.1 (DWR Modified)	Dissolved Ortho-phosphate	0.02	mg/L as P	0.01	1.	86	10/10/2017		
EPA 200.7 (D)	Dissolved Potassium	4.7	mg/L	0.5	1.	10	9/29/2017		
EPA 200.8 (D)	Dissolved Selenium	0.001	mg/L	0.001	1.	13	10/5/2017		
EPA 200.8 (D)	Dissolved Silver	< 0.001	mg/L	0.001	1.	13	10/5/2017		
EPA 200.7 (D)	Dissolved Sodium	110	mg/L	1.	1.	10	9/29/2017		
EPA 300.0 28d Hold	Dissolved Sulfate	430	mg/L	10.	10.	9	9/29/2017	R4	Dil-BL0917B0417
EPA 200.8 (D)	Dissolved Zinc	< 0.005	mg/L	0.005	1.	13	10/5/2017		
Std Method 2320 B	pH	7.4	pH Units	0.1	1.	20	10/2/2017		
Std Method 2510-B	Specific Conductance	1509	µS/cm@25°C	1.	1.	20	10/2/2017		
Std Method 2320 B	Total Alkalinity	246	mg/L as CaCO3	1.	1.	20	10/2/2017		
EPA 200.8 (T)	Total Aluminum	< 0.01	mg/L	0.01	1.	13	9/28/2017		
EPA 200.8 (T)	Total Antimony	< 0.001	mg/L	0.001	1.	13	9/28/2017		
EPA 200.8 (T)	Total Arsenic	0.002	mg/L	0.001	1.	13	9/28/2017		
EPA 200.8 (T)	Total Barium	0.054	mg/L	0.005	1.	13	9/28/2017		
EPA 200.8 (T)	Total Beryllium	< 0.001	mg/L	0.001	1.	13	9/28/2017		
EPA 200.8 (T)	Total Cadmium	< 0.001	mg/L	0.001	1.	13	9/28/2017		
EPA 200.8 (T)	Total Chromium	< 0.001	mg/L	0.001	1.	13	9/28/2017		
EPA 200.8 (T)	Total Copper	0.001	mg/L	0.001	1.	13	9/28/2017		
Std Method 2540 C	Total Dissolved Solids	1056	mg/L	1.	1.	20	10/3/2017		
EPA 200.8 (T)	Total Iron	0.169	mg/L	0.005	1.	13	9/28/2017		

N.A.=Not Analyzed R.L.=Reporting Limit (Reporting Limits Adjusted For Dilution)

Sample Number **BL0917B0417** ***Inorganic Analytical Results***

EPA 351.2	Total Kjeldahl Nitrogen	< 0.1	mg/L as N	0.1	1.	86	10/13/2017
EPA 200.8 (T)	Total Lead	< 0.001	mg/L	0.001	1.	13	9/28/2017
EPA 200.8 (T)	Total Manganese	0.037	mg/L	0.005	1.	13	9/28/2017
EPA 200.8 (T)	Total Nickel	0.005	mg/L	0.001	1.	13	9/28/2017
EPA 415.1 (T) Ox	Total Organic Carbon	2.1	mg/L as C	0.5	1.	67	10/2/2017
EPA 365.4	Total Phosphorus	0.02	mg/L as P	0.01	1.	86	10/13/2017
EPA 200.8 (T)	Total Selenium	0.001	mg/L	0.001	1.	13	9/28/2017
EPA 200.8 (T)	Total Silver	< 0.001	mg/L	0.001	1.	13	9/28/2017
EPA 160.2	Total Suspended Solids	2	mg/L	1.	1.	67	9/29/2017
EPA 200.8 (T)	Total Zinc	< 0.005	mg/L	0.005	1.	13	9/28/2017

Sample Number **BL0917B0418** ***Inorganic Analytical Results***

BL0917B0418 ***Sample Type(Purpose):*** Blank; Field ***Depth:*** 0 Ft. ***Collection Date:*** 09/27/2017 08:30

StationNumber: Blank; Field ***StationName:*** Blank; Field ***Matrix:*** Water, Purified ***Cost Code:*** 30375000

Sample Condition: 1.0 °C when received. Iced. Nutrients were frozen within the required time.

Method	*Analyte*	*Result*	*Units*	*R.L.*	*Dilution*	*ChemID*	*Analysis Date*	*Flags and Notes:*
EPA 200.8 (D)	Dissolved Aluminum	< 0.01	mg/L	0.01	1.	13	10/5/2017	
EPA 350.1 (D)	Dissolved Ammonia	< 0.01	mg/L as N	0.01	1.	86	10/10/2017	
EPA 200.8 (D)	Dissolved Antimony	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Arsenic	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Barium	< 0.005	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Beryllium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Cadmium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.7 (D)	Dissolved Calcium	< 1	mg/L	1.	1.	10	9/29/2017	
EPA 300.0 28d Hold	Dissolved Chloride	< 1	mg/L	1.	1.	9	9/29/2017	Dup-BL0917B0418
EPA 300.0 28d Hold	Dissolved Chloride	< 1	mg/L	1.	1.	9	9/29/2017	
EPA 200.8 (D)	Dissolved Chromium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Copper	< 0.001	mg/L	0.001	1.	13	10/5/2017	
Std Method 2340 B	Dissolved Hardness	< 1	mg/L as CaCO3	1.	1.	10	9/29/2017	
EPA 200.8 (D)	Dissolved Iron	< 0.005	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Lead	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.7 (D)	Dissolved Magnesium	< 1	mg/L	1.	1.	10	9/29/2017	Measured: 0.015
EPA 200.8 (D)	Dissolved Manganese	< 0.005	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Nickel	< 0.001	mg/L	0.001	1.	13	10/5/2017	
Std Method 4500-NO3-F (28	Dissolved Nitrate + Nitrite	< 0.01	mg/L as N	0.01	1.	86	10/10/2017	
EPA 415.1 (D) Ox	Dissolved Organic Carbon	< 0.5	mg/L as C	0.5	1.	67	10/2/2017	
EPA 365.1 (DWR Modified)	Dissolved Ortho-phosphate	< 0.01	mg/L as P	0.01	1.	86	10/10/2017	
EPA 200.7 (D)	Dissolved Potassium	< 0.5	mg/L	0.5	1.	10	9/29/2017	Measured: 0.18
EPA 200.8 (D)	Dissolved Selenium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Silver	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.7 (D)	Dissolved Sodium	< 1	mg/L	1.	1.	10	9/29/2017	
EPA 300.0 28d Hold	Dissolved Sulfate	< 1	mg/L	1.	1.	9	9/29/2017	Dup-BL0917B0418
EPA 300.0 28d Hold	Dissolved Sulfate	< 1	mg/L	1.	1.	9	9/29/2017	
EPA 200.8 (D)	Dissolved Zinc	< 0.005	mg/L	0.005	1.	13	10/5/2017	
Std Method 2320 B	pH	6.6	pH Units	0.1	1.	20	10/2/2017	
Std Method 2510-B	Specific Conductance	1	µS/cm@25°C	1.	1.	20	10/2/2017	
Std Method 2320 B	Total Alkalinity	2	mg/L as CaCO3	1.	1.	20	10/2/2017	
EPA 200.8 (T)	Total Aluminum	< 0.01	mg/L	0.01	1.	13	9/28/2017	
EPA 200.8 (T)	Total Antimony	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Arsenic	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Barium	< 0.005	mg/L	0.005	1.	13	9/28/2017	
EPA 200.8 (T)	Total Beryllium	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Cadmium	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Chromium	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Copper	< 0.001	mg/L	0.001	1.	13	9/28/2017	
Std Method 2540 C	Total Dissolved Solids	< 1	mg/L	1.	1.	20	10/3/2017	

Sample Number **BL0917B0418** ***Inorganic Analytical Results***

EPA 200.8 (T)	Total Iron	< 0.005	mg/L	0.005	1.	13	9/28/2017
EPA 351.2	Total Kjeldahl Nitrogen	< 0.1	mg/L as N	0.1	1.	86	10/13/2017
EPA 200.8 (T)	Total Lead	< 0.001	mg/L	0.001	1.	13	9/28/2017
EPA 200.8 (T)	Total Manganese	< 0.005	mg/L	0.005	1.	13	9/28/2017
EPA 200.8 (T)	Total Nickel	< 0.001	mg/L	0.001	1.	13	9/28/2017
EPA 415.1 (T) Ox	Total Organic Carbon	< 0.5	mg/L as C	0.5	1.	67	10/2/2017
EPA 365.4	Total Phosphorus	< 0.01	mg/L as P	0.01	1.	86	10/13/2017
EPA 200.8 (T)	Total Selenium	< 0.001	mg/L	0.001	1.	13	9/28/2017
EPA 200.8 (T)	Total Silver	< 0.001	mg/L	0.001	1.	13	9/28/2017
EPA 160.2	Total Suspended Solids	< 1	mg/L	1.	1.	67	9/29/2017
EPA 200.8 (T)	Total Zinc	< 0.005	mg/L	0.005	1.	13	9/28/2017

Sample Number **BL0917B0419** ***Inorganic Analytical Results***

BL0917B0419 ***Sample Type(Purpose):*** Blank; Equipment ***Depth:*** 0 Ft. ***Collection Date:*** 09/27/2017 09:00

StationNumber: Blank; Equipment ***StationName:*** Blank; Equipment ***Matrix:*** Water, Purified ***Cost Code:*** 30375000

Sample Condition: 1.0 °C when received. Iced. Nutrients were frozen within the required time.

Method	*Analyte*	*Result*	*Units*	*R.L.*	*Dilution*	*ChemID*	*Analysis Date*	*Flags and Notes:*
EPA 200.8 (D)	Dissolved Aluminum	< 0.01	mg/L	0.01	1.	13	10/5/2017	
EPA 350.1 (D)	Dissolved Ammonia	< 0.01	mg/L as N	0.01	1.	86	10/10/2017	
EPA 200.8 (D)	Dissolved Antimony	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Arsenic	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Barium	< 0.005	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Beryllium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Cadmium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.7 (D)	Dissolved Calcium	< 1	mg/L	1.	1.	10	9/29/2017	Measured: 0.085
EPA 300.0 28d Hold	Dissolved Chloride	< 1	mg/L	1.	1.	9	9/29/2017	
EPA 200.8 (D)	Dissolved Chromium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Copper	< 0.001	mg/L	0.001	1.	13	10/5/2017	
Std Method 2340 B	Dissolved Hardness	< 1	mg/L as CaCO3	1.	1.	10	9/29/2017	
EPA 200.8 (D)	Dissolved Iron	< 0.005	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Lead	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.7 (D)	Dissolved Magnesium	< 1	mg/L	1.	1.	10	9/29/2017	
EPA 200.8 (D)	Dissolved Manganese	< 0.005	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Nickel	< 0.001	mg/L	0.001	1.	13	10/5/2017	
Std Method 4500-NO3-F (28	Dissolved Nitrate + Nitrite	0.03	mg/L as N	0.01	1.	86	10/10/2017	
EPA 415.1 (D) Ox	Dissolved Organic Carbon	< 0.5	mg/L as C	0.5	1.	67	10/2/2017	
EPA 365.1 (DWR Modified)	Dissolved Ortho-phosphate	< 0.01	mg/L as P	0.01	1.	86	10/10/2017	
EPA 200.7 (D)	Dissolved Potassium	< 0.5	mg/L	0.5	1.	10	9/29/2017	Measured: 0.236
EPA 200.8 (D)	Dissolved Selenium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (D)	Dissolved Silver	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.7 (D)	Dissolved Sodium	< 1	mg/L	1.	1.	10	9/29/2017	Measured: 0.294
EPA 300.0 28d Hold	Dissolved Sulfate	< 1	mg/L	1.	1.	9	9/29/2017	
EPA 200.8 (D)	Dissolved Zinc	< 0.005	mg/L	0.005	1.	13	10/5/2017	
Std Method 2320 B	pH	4.4	pH Units	0.1	1.	20	10/2/2017	
Std Method 2510-B	Specific Conductance	1	µS/cm@25°C	1.	1.	20	10/2/2017	
Std Method 2320 B	Total Alkalinity	< 1	mg/L as CaCO3	1.	1.	20	10/2/2017	
EPA 200.8 (T)	Total Aluminum	< 0.01	mg/L	0.01	1.	13	9/28/2017	
EPA 200.8 (T)	Total Antimony	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Arsenic	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Barium	< 0.005	mg/L	0.005	1.	13	9/28/2017	
EPA 200.8 (T)	Total Beryllium	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Cadmium	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Chromium	< 0.001	mg/L	0.001	1.	13	9/28/2017	
EPA 200.8 (T)	Total Copper	< 0.001	mg/L	0.001	1.	13	9/28/2017	
Std Method 2540 C	Total Dissolved Solids	< 1	mg/L	1.	1.	20	10/3/2017	
EPA 200.8 (T)	Total Iron	< 0.005	mg/L	0.005	1.	13	9/28/2017	

Report of Analytical Results, Cont

Sample Number BL0917B0419 — ***Inorganic Analytical Results***

EPA 351.2	Total Kjeldahl Nitrogen	< 0.1	mg/L as N	0.1	1.	86	10/13/2017
EPA 200.8 (T)	Total Lead	< 0.001	mg/L	0.001	1.	13	9/28/2017
EPA 200.8 (T)	Total Manganese	< 0.005	mg/L	0.005	1.	13	9/28/2017
EPA 200.8 (T)	Total Nickel	< 0.001	mg/L	0.001	1.	13	9/28/2017
EPA 415.1 (T) Ox	Total Organic Carbon	< 0.5	mg/L as C	0.5	1.	67	10/2/2017
EPA 365.4	Total Phosphorus	0.03	mg/L as P	0.01	1.	86	10/13/2017
EPA 200.8 (T)	Total Selenium	< 0.001	mg/L	0.001	1.	13	9/28/2017
EPA 200.8 (T)	Total Silver	< 0.001	mg/L	0.001	1.	13	9/28/2017
EPA 160.2	Total Suspended Solids	< 1	mg/L	1.	1.	67	9/29/2017
EPA 200.8 (T)	Total Zinc	< 0.005	mg/L	0.005	1.	13	9/28/2017

DWR Bryte Analytical Lab

1450 Riverbank Road, West Sacramento, CA 95605

Report of Analytical Results

30-Oct-17

Submittal Name: FERC - Pyramid, Quail, Piru

Submittal ID: BL0917B0021aaa

These results are also available to DWR staff in electronic form via the DWR Water Data Library (WDL) http://wdl.water.ca.gov. Contact Kelley Pepper (kelley.pepper@water.ca.gov) to set up access.

(First) Collection Date: 09/28/2017 09:00
Received Date: 09/29/2017 16:00

Report to:

Charles Vertucci

, CA

Priority: 5
Submitted By: Charles Vertucci
Received By: Pepper, Kelley

Instructions to Lab:

Samples:

BL0917B0408	BL0917B0409	BL0917B0410	BL0917B0411	BL0917B0412	BL0917B0413
BL0917B0420					

Analyst Summary:

20 - Chan, Elaine	67 - Hicks, Matt	9 - Pineda, Maritza	10 - Quiambao, Josie	86 - Stroke, Ashley
13 - Thind, Pritam				

Submittal Review Notes From Lab:

Report of Field Results

Sample Number BL0917B0408 — **Field Results**

StationNumber:	StationName	Matrix	Cost Code:	Collection Date
PY Nr Dm	Pyramid Lake Nr Dam	Water, Natural	30375000	9/28/2017 9:00 AM

Method	Analyte	Result	Rpt.Lmt.	Units	Time	Footnotes
Specific Conductance	Specific Conductance	194	1	µS/cm@25°C		

Sample Number BL0917B0409 — **Field Results**

StationNumber:	StationName	Matrix	Cost Code:	Collection Date
PY Nr Dam B	Pyramid Lk Nr Dam B	Water, Natural	30375000	9/28/2017 9:45 AM

Method	Analyte	Result	Rpt.Lmt.	Units	Time	Footnotes
Specific Conductance	Electrical Conductance	194	1	µS/cm@25°C		

Sample Number BL0917B0410 — **Field Results**

StationNumber:	StationName	Matrix	Cost Code:	Collection Date
PY Nr Piru	Pyramid Lake Nr Piru	Water, Natural	30375000	9/28/2017 10:45 AM

Method	Analyte	Result	Rpt.Lmt.	Units	Time	Footnotes
Specific Conductance	Specific Conductance	196	1	µS/cm@25°C		

Sample Number BL0917B0411 — **Field Results**

StationNumber:	StationName	Matrix	Cost Code:	Collection Date
PY Nr Piru B	Pyramid Lk Nr Piru B	Water, Natural	30375000	9/28/2017 11:15 AM

Method	Analyte	Result	Rpt.Lmt.	Units	Time	Footnotes
Specific Conductance	Electrical Conductance	206	1	µS/cm@25°C		

Sample Number BL0917B0412 — **Field Results**

StationNumber:	StationName	Matrix	Cost Code:	Collection Date
PY Nr WPP	Pyramid Lk Nr Warne	Water, Natural	30375000	9/28/2017 11:45 AM

Method	Analyte	Result	Rpt.Lmt.	Units	Time	Footnotes
Specific Conductance	Specific Conductance	194	1	µS/cm@25°C		

Sample Number BL0917B0413 — **Field Results**

StationNumber:	StationName	Matrix	Cost Code:	Collection Date
Py Nr WPP B	Pyramid Lk Nr WPP B	Water, Natural	30375000	9/28/2017 12:15 PM

Method	Analyte	Result	Rpt.Lmt.	Units	Time	Footnotes
Specific Conductance	Electrical Conductance	203	1	µS/cm@25°C		

Sample Number BL0917B0420 — **Field Results**

StationNumber:	StationName	Matrix	Cost Code:	Collection Date
PY Nr Dm	Pyramid Lake Nr Dam	Water, Natural	30375000	9/28/2017 9:00 AM

Method	Analyte	Result	Rpt.Lmt.	Units	Time	Footnotes
Specific Conductance	Electrical Conductance	194	1	µS/cm@25°C		

Report of Inorganic Analytical Results

Including Misc Physical Measurements

Sample Number BL0917B0408 — **Inorganic Analytical Results**

Sample Number **BL0917B0408** **Inorganic Analytical Results**

BL0917B0408 ***Sample Type(Purpose):*** Normal Sample ***Depth:*** 3 Ft. ***Collection Date:*** 09/28/2017 09:00

StationNumber: PY Nr Dm ***StationName:*** Pyramid Lake Nr Dam ***Matrix:*** Water, Natural ***Cost Code:*** 30375000

Sample Condition: 1.0 °C when received. Iced.

Method	*Analyte*	*Result*	*Units*	*R.L.*	*Dilution*	*ChemID*	*Analysis Date*	*Flags and Notes:*
EPA 200.8 (D)	Dissolved Aluminum	< 0.01	mg/L	0.01	1.	13	10/4/2017	
EPA 350.1 (D)	Dissolved Ammonia	< 0.01	mg/L as N	0.01	1.	86	10/10/2017	
EPA 200.8 (D)	Dissolved Antimony	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Arsenic	0.002	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Barium	0.018	mg/L	0.005	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Beryllium	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Cadmium	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.7 (D)	Dissolved Calcium	11	mg/L	1.	1.	10	10/4/2017	
EPA 300.0 28d Hold	Dissolved Chloride	23	mg/L	1.	1.	9	10/3/2017	
EPA 300.0 28d Hold	Dissolved Chloride	23	mg/L	1.	1.	9	10/3/2017	Dup-BL0917B0408
EPA 200.8 (D)	Dissolved Chromium	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Copper	0.001	mg/L	0.001	1.	13	10/4/2017	
Std Method 2340 B	Dissolved Hardness	51	mg/L as CaCO3	1.	1.	10	10/4/2017	
EPA 200.8 (D)	Dissolved Iron	< 0.005	mg/L	0.005	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Lead	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.7 (D)	Dissolved Magnesium	5	mg/L	1.	1.	10	10/4/2017	
EPA 200.8 (D)	Dissolved Manganese	< 0.005	mg/L	0.005	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Nickel	< 0.001	mg/L	0.001	1.	13	10/4/2017	
Std Method 4500-NO3-F (28	Dissolved Nitrate + Nitrite	0.19	mg/L as N	0.01	1.	86	10/10/2017	
EPA 415.1 (D) Ox	Dissolved Organic Carbon	2.6	mg/L as C	0.5	1.	67	10/4/2017	
EPA 365.1 (DWR Modified)	Dissolved Ortho-phosphate	0.07	mg/L as P	0.01	1.	86	10/10/2017	
EPA 200.7 (D)	Dissolved Potassium	1.7	mg/L	0.5	1.	10	10/4/2017	
EPA 200.8 (D)	Dissolved Selenium	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Silver	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.7 (D)	Dissolved Sodium	18	mg/L	1.	1.	10	10/4/2017	
EPA 300.0 28d Hold	Dissolved Sulfate	15	mg/L	1.	1.	9	10/3/2017	Dup-BL0917B0408
EPA 300.0 28d Hold	Dissolved Sulfate	15	mg/L	1.	1.	9	10/3/2017	
EPA 200.8 (D)	Dissolved Zinc	< 0.005	mg/L	0.005	1.	13	10/4/2017	
Std Method 2320 B	pH	7	pH Units	0.1	1.	20	10/2/2017	
Std Method 2510-B	Specific Conductance	199	µS/cm@25°C	1.	1.	20	10/2/2017	
Std Method 2320 B	Total Alkalinity	42	mg/L as CaCO3	1.	1.	20	10/2/2017	
EPA 200.8 (T)	Total Aluminum	0.013	mg/L	0.01	1.	13	10/5/2017	
EPA 200.8 (T)	Total Antimony	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Arsenic	0.002	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Barium	0.019	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (T)	Total Beryllium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Cadmium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Chromium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Copper	0.001	mg/L	0.001	1.	13	10/5/2017	
Std Method 2540 C	Total Dissolved Solids	115	mg/L	1.	1.	20	10/4/2017	
Std Method 2540 C	Total Dissolved Solids	115	mg/L	1.	1.	20	10/4/2017	Dup-BL0917B0408
EPA 200.8 (T)	Total Iron	0.017	mg/L	0.005	1.	13	10/5/2017	
EPA 351.2	Total Kjeldahl Nitrogen	0.1	mg/L as N	0.1	1.	86	10/17/2017	
EPA 200.8 (T)	Total Lead	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Manganese	< 0.005	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (T)	Total Nickel	0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 415.1 (T) Ox	Total Organic Carbon	2.8	mg/L as C	0.5	1.	67	10/4/2017	
EPA 365.4	Total Phosphorus	0.09	mg/L as P	0.01		86	10/20/2017	
EPA 200.8 (T)	Total Selenium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Silver	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 160.2	Total Suspended Solids	< 1	mg/L	1.	1.	67	10/3/2017	

N.A.=Not Analyzed R.L.=Reporting Limit (Reporting Limits Adjusted For Dilution)

Sample Number **BL0917B0408**		***Inorganic Analytical Results***					
EPA 200.8 (T)	Total Zinc	< 0.005	mg/L	0.005	1.	13	10/5/2017

Sample Number **BL0917B0409** ***Inorganic Analytical Results***

BL0917B0409 ***Sample Type(Purpose):*** Normal Sample ***Depth:*** 200 ***Collection Date:*** 09/28/2017 09:45

StationNumber: PY Nr Dam B ***StationName:*** Pyramid Lk Nr Dam B ***Matrix:*** Water, Natural ***Cost Code:*** 30375000

Sample Condition: 1.0 °C when received. Iced.

Method	*Analyte*	*Result*	*Units*	*R.L.*	*Dilution*	*ChemID*	*Analysis Date*	*Flags and Notes:*
EPA 200.8 (D)	Dissolved Aluminum	< 0.01	mg/L	0.01	1.	13	10/4/2017	
EPA 350.1 (D)	Dissolved Ammonia	< 0.01	mg/L as N	0.01	1.	86	10/10/2017	
EPA 200.8 (D)	Dissolved Antimony	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Arsenic	0.003	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Barium	0.018	mg/L	0.005	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Beryllium	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Cadmium	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.7 (D)	Dissolved Calcium	14	mg/L	1.	1.	10	10/4/2017	
EPA 300.0 28d Hold	Dissolved Chloride	27	mg/L	1.	1.	9	10/3/2017	
EPA 200.8 (D)	Dissolved Chromium	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Copper	0.001	mg/L	0.001	1.	13	10/4/2017	
Std Method 2340 B	Dissolved Hardness	62	mg/L as CaCO3	1.	1.	10	10/4/2017	
EPA 200.8 (D)	Dissolved Iron	0.006	mg/L	0.005	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Lead	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.7 (D)	Dissolved Magnesium	6	mg/L	1.	1.	10	10/4/2017	
EPA 200.8 (D)	Dissolved Manganese	< 0.005	mg/L	0.005	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Nickel	0.001	mg/L	0.001	1.	13	10/4/2017	
Std Method 4500-NO3-F (28	Dissolved Nitrate + Nitrite	0.43	mg/L as N	0.01	1.	86	10/10/2017	
EPA 415.1 (D) Ox	Dissolved Organic Carbon	3	mg/L as C	0.5	1.	67	10/4/2017	
EPA 365.1 (DWR Modified)	Dissolved Ortho-phosphate	0.12	mg/L as P	0.01	1.	86	10/10/2017	
EPA 200.7 (D)	Dissolved Potassium	2.1	mg/L	0.5	1.	10	10/4/2017	
EPA 200.8 (D)	Dissolved Selenium	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Silver	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.7 (D)	Dissolved Sodium	22	mg/L	1.	1.	10	10/4/2017	
EPA 300.0 28d Hold	Dissolved Sulfate	22	mg/L	1.	1.	9	10/3/2017	
EPA 200.8 (D)	Dissolved Zinc	< 0.005	mg/L	0.005	1.	13	10/4/2017	
Std Method 2320 B	pH	6.9	pH Units	0.1	1.	20	10/2/2017	
Std Method 2510-B	Specific Conductance	242	µS/cm@25°C	1.	1.	20	10/2/2017	
Std Method 2320 B	Total Alkalinity	48	mg/L as CaCO3	1.	1.	20	10/2/2017	
EPA 200.8 (T)	Total Aluminum	0.017	mg/L	0.01	1.	13	10/5/2017	
EPA 200.8 (T)	Total Antimony	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Arsenic	0.003	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Barium	0.02	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (T)	Total Beryllium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Cadmium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Chromium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Copper	0.001	mg/L	0.001	1.	13	10/5/2017	
Std Method 2540 C	Total Dissolved Solids	146	mg/L	1.	1.	20	10/4/2017	
EPA 200.8 (T)	Total Iron	0.024	mg/L	0.005	1.	13	10/5/2017	
EPA 351.2	Total Kjeldahl Nitrogen	0.2	mg/L as N	0.1	1.	86	10/17/2017	
EPA 200.8 (T)	Total Lead	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Manganese	0.028	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (T)	Total Nickel	0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 415.1 (T) Ox	Total Organic Carbon	3	mg/L as C	0.5	1.	67	10/4/2017	
EPA 365.4	Total Phosphorus	0.14	mg/L as P	0.01		86	10/20/2017	
EPA 200.8 (T)	Total Selenium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Silver	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 160.2	Total Suspended Solids	1	mg/L	1.	1.	67	10/3/2017	
EPA 200.8 (T)	Total Zinc	< 0.005	mg/L	0.005	1.	13	10/5/2017	

Report of Analytical Results, Cont

Sample Number BL0917B0410 **Inorganic Analytical Results**

BL0917B0410 *Sample Type(Purpose):* Normal Sample *Depth:* 3 Ft. *Collection Date:* 09/28/2017 10:45

StationNumber: PY Nr Piru *StationName:* Pyramid Lake Nr Piru *Matrix:* Water, Natural *Cost Code:* 30375000

Sample Condition: 1.0 °C when received. Iced.

Method	Analyte	Result	Units	R.L.	Dilution	ChemID	Analysis Date	Flags and Notes:
EPA 200.8 (D)	Dissolved Aluminum	< 0.01	mg/L	0.01	1.	13	10/4/2017	
EPA 350.1 (D)	Dissolved Ammonia	0.01	mg/L as N	0.01	1.	86	10/10/2017	
EPA 200.8 (D)	Dissolved Antimony	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Arsenic	0.002	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Barium	0.019	mg/L	0.005	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Beryllium	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Cadmium	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.7 (D)	Dissolved Calcium	11	mg/L	1.	1.	10	10/4/2017	
EPA 300.0 28d Hold	Dissolved Chloride	23	mg/L	1.	1.	9	10/3/2017	
EPA 200.8 (D)	Dissolved Chromium	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Copper	0.001	mg/L	0.001	1.	13	10/4/2017	
Std Method 2340 B	Dissolved Hardness	51	mg/L as CaCO3	1.	1.	10	10/4/2017	
EPA 200.8 (D)	Dissolved Iron	< 0.005	mg/L	0.005	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Lead	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.7 (D)	Dissolved Magnesium	5	mg/L	1.	1.	10	10/4/2017	
EPA 200.8 (D)	Dissolved Manganese	< 0.005	mg/L	0.005	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Nickel	< 0.001	mg/L	0.001	1.	13	10/4/2017	
Std Method 4500-NO3-F (28	Dissolved Nitrate + Nitrite	0.51	mg/L as N	0.01	1.	86	10/10/2017	
EPA 415.1 (D) Ox	Dissolved Organic Carbon	2.6	mg/L as C	0.5	1.	67	10/4/2017	Duplicate
EPA 415.1 (D) Ox	Dissolved Organic Carbon	2.7	mg/L as C	0.5	1.	67	10/4/2017	Dup-BL0917B0410
EPA 365.1 (DWR Modified)	Dissolved Ortho-phosphate	0.07	mg/L as P	0.01	1.	86	10/10/2017	
EPA 200.7 (D)	Dissolved Potassium	1.8	mg/L	0.5	1.	10	10/4/2017	
EPA 200.8 (D)	Dissolved Selenium	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Silver	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.7 (D)	Dissolved Sodium	18	mg/L	1.	1.	10	10/4/2017	
EPA 300.0 28d Hold	Dissolved Sulfate	15	mg/L	1.	1.	9	10/3/2017	
EPA 200.8 (D)	Dissolved Zinc	< 0.005	mg/L	0.005	1.	13	10/4/2017	
Std Method 2320 B	pH	6.8	pH Units	0.1	1.	20	10/2/2017	
Std Method 2510-B	Specific Conductance	200	µS/cm@25°C	1.	1.	20	10/2/2017	
Std Method 2320 B	Total Alkalinity	42	mg/L as CaCO3	1.	1.	20	10/2/2017	
EPA 200.8 (T)	Total Aluminum	0.013	mg/L	0.01	1.	13	10/5/2017	
EPA 200.8 (T)	Total Antimony	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Arsenic	0.002	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Barium	0.02	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (T)	Total Beryllium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Cadmium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Chromium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Copper	0.001	mg/L	0.001	1.	13	10/5/2017	
Std Method 2540 C	Total Dissolved Solids	113	mg/L	1.	1.	20	10/4/2017	
EPA 200.8 (T)	Total Iron	0.013	mg/L	0.005	1.	13	10/5/2017	
EPA 351.2	Total Kjeldahl Nitrogen	0.2	mg/L as N	0.1	1.	86	10/17/2017	
EPA 200.8 (T)	Total Lead	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Manganese	< 0.005	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (T)	Total Nickel	0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 415.1 (T) Ox	Total Organic Carbon	2.8	mg/L as C	0.5	1.	67	10/4/2017	Dup-BL0917B0410
EPA 415.1 (T) Ox	Total Organic Carbon	2.7	mg/L as C	0.5	1.	67	10/4/2017	Duplicate
EPA 365.4	Total Phosphorus	0.09	mg/L as P	0.01		86	10/20/2017	
EPA 200.8 (T)	Total Selenium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Silver	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 160.2	Total Suspended Solids	4	mg/L	1.	1.	67	10/3/2017	
EPA 200.8 (T)	Total Zinc	< 0.005	mg/L	0.005	1.	13	10/5/2017	

N.A.=Not Analyzed R.L.=Reporting Limit (Reporting Limits Adjusted For Dilution)

Report of Analytical Results, Cont

Sample Number BL0917B0411 **Inorganic Analytical Results**

BL0917B0411 *Sample Type(Purpose):* Normal Sample *Depth:* 200 *Collection Date:* 09/28/2017 11:15

StationNumber: PY Nr Piru B *StationName:* Pyramid Lk Nr Piru B *Matrix:* Water, Natural *Cost Code:* 30375000

Sample Condition: 1.0 °C when received. Iced.

Method	Analyte	Result	Units	R.L.	Dilution	ChemID	Analysis Date	Flags and Notes:
EPA 200.8 (D)	Dissolved Aluminum	< 0.01	mg/L	0.01	1.	13	10/4/2017	
EPA 350.1 (D)	Dissolved Ammonia	< 0.01	mg/L as N	0.01	1.	86	10/10/2017	Dup-BL0917B0411
EPA 350.1 (D)	Dissolved Ammonia	< 0.01	mg/L as N	0.01	1.	86	10/10/2017	
EPA 200.8 (D)	Dissolved Antimony	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Arsenic	0.002	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Barium	0.018	mg/L	0.005	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Beryllium	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Cadmium	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.7 (D)	Dissolved Calcium	12	mg/L	1.	1.	10	10/4/2017	
EPA 300.0 28d Hold	Dissolved Chloride	24	mg/L	1.	1.	9	10/3/2017	
EPA 200.8 (D)	Dissolved Chromium	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Copper	0.001	mg/L	0.001	1.	13	10/4/2017	
Std Method 2340 B	Dissolved Hardness	53	mg/L as CaCO3	1.	1.	10	10/4/2017	
EPA 200.8 (D)	Dissolved Iron	< 0.005	mg/L	0.005	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Lead	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.7 (D)	Dissolved Magnesium	6	mg/L	1.	1.	10	10/4/2017	
EPA 200.8 (D)	Dissolved Manganese	< 0.005	mg/L	0.005	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Nickel	< 0.001	mg/L	0.001	1.	13	10/4/2017	
Std Method 4500-NO3-F (28	Dissolved Nitrate + Nitrite	0.23	mg/L as N	0.01	1.	86	10/10/2017	Dup-BL0917B0411
Std Method 4500-NO3-F (28	Dissolved Nitrate + Nitrite	0.24	mg/L as N	0.01	1.	86	10/10/2017	
EPA 415.1 (D) Ox	Dissolved Organic Carbon	2.7	mg/L as C	0.5	1.	67	10/4/2017	Matrix Spike
EPA 365.1 (DWR Modified)	Dissolved Ortho-phosphate	0.1	mg/L as P	0.01	1.	86	10/10/2017	Dup-BL0917B0411
EPA 365.1 (DWR Modified)	Dissolved Ortho-phosphate	0.1	mg/L as P	0.01	1.	86	10/10/2017	
EPA 200.7 (D)	Dissolved Potassium	1.8	mg/L	0.5	1.	10	10/4/2017	
EPA 200.8 (D)	Dissolved Selenium	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Silver	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.7 (D)	Dissolved Sodium	19	mg/L	1.	1.	10	10/4/2017	
EPA 300.0 28d Hold	Dissolved Sulfate	16	mg/L	1.	1.	9	10/3/2017	
EPA 200.8 (D)	Dissolved Zinc	< 0.005	mg/L	0.005	1.	13	10/4/2017	
Std Method 2320 B	pH	7	pH Units	0.1	1.	20	10/2/2017	
Std Method 2510-B	Specific Conductance	208	µS/cm@25°C	1.	1.	20	10/2/2017	
Std Method 2320 B	Total Alkalinity	44	mg/L as CaCO3	1.	1.	20	10/2/2017	
EPA 200.8 (T)	Total Aluminum	0.021	mg/L	0.01	1.	13	10/5/2017	
EPA 200.8 (T)	Total Antimony	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Arsenic	0.002	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Barium	0.02	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (T)	Total Beryllium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Cadmium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Chromium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Copper	0.001	mg/L	0.001	1.	13	10/5/2017	
Std Method 2540 C	Total Dissolved Solids	116	mg/L	1.	1.	20	10/4/2017	
EPA 200.8 (T)	Total Iron	0.027	mg/L	0.005	1.	13	10/5/2017	
EPA 351.2	Total Kjeldahl Nitrogen	0.2	mg/L as N	0.1	1.	86	10/17/2017	
EPA 200.8 (T)	Total Lead	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Manganese	0.012	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (T)	Total Nickel	0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 415.1 (T) Ox	Total Organic Carbon	2.8	mg/L as C	0.5	1.	67	10/4/2017	Matrix Spike
EPA 365.4	Total Phosphorus	0.1	mg/L as P	0.01		86	10/20/2017	
EPA 200.8 (T)	Total Selenium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Silver	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 160.2	Total Suspended Solids	1	mg/L	1.	1.	67	10/3/2017	

N.A.=Not Analyzed R.L.=Reporting Limit (Reporting Limits Adjusted For Dilution)

Sample Number **BL0917B0411** ***Inorganic Analytical Results***

EPA 200.8 (T)	Total Zinc	< 0.005	mg/L	0.005	1.	13	10/5/2017

Sample Number **BL0917B0412** ***Inorganic Analytical Results***

BL0917B0412 ***Sample Type(Purpose):*** Normal Sample ***Depth:*** 3 Ft. ***Collection Date:*** 09/28/2017 11:45
StationNumber: PY Nr WPP ***StationName:*** Pyramid Lk Nr Warne ***Matrix:*** Water, Natural ***Cost Code:*** 30375000
Sample Condition: 1.0 °C when received. Iced.

Method	*Analyte*	*Result*	*Units*	*R.L.*	*Dilution*	*ChemID*	*Analysis Date*	*Flags and Notes:*
EPA 200.8 (D)	Dissolved Aluminum	< 0.01	mg/L	0.01	1.	13	10/4/2017	
EPA 350.1 (D)	Dissolved Ammonia	< 0.01	mg/L as N	0.01	1.	86	10/10/2017	
EPA 200.8 (D)	Dissolved Antimony	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Arsenic	0.002	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Barium	0.018	mg/L	0.005	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Beryllium	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Cadmium	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.7 (D)	Dissolved Calcium	11	mg/L	1.	1.	10	10/4/2017	
EPA 300.0 28d Hold	Dissolved Chloride	23	mg/L	1.	1.	9	10/3/2017	
EPA 200.8 (D)	Dissolved Chromium	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Copper	0.001	mg/L	0.001	1.	13	10/4/2017	
Std Method 2340 B	Dissolved Hardness	50	mg/L as CaCO3	1.	1.	10	10/4/2017	
EPA 200.8 (D)	Dissolved Iron	< 0.005	mg/L	0.005	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Lead	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.7 (D)	Dissolved Magnesium	5	mg/L	1.	1.	10	10/4/2017	
EPA 200.8 (D)	Dissolved Manganese	< 0.005	mg/L	0.005	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Nickel	< 0.001	mg/L	0.001	1.	13	10/4/2017	
Std Method 4500-NO3-F (28	Dissolved Nitrate + Nitrite	0.18	mg/L as N	0.01	1.	86	10/10/2017	
EPA 415.1 (D) Ox	Dissolved Organic Carbon	2.7	mg/L as C	0.5	1.	67	10/4/2017	
EPA 365.1 (DWR Modified)	Dissolved Ortho-phosphate	0.07	mg/L as P	0.01	1.	86	10/10/2017	
EPA 200.7 (D)	Dissolved Potassium	1.8	mg/L	0.5	1.	10	10/4/2017	
EPA 200.8 (D)	Dissolved Selenium	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Silver	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.7 (D)	Dissolved Sodium	18	mg/L	1.	1.	10	10/4/2017	
EPA 300.0 28d Hold	Dissolved Sulfate	15	mg/L	1.	1.	9	10/3/2017	
EPA 200.8 (D)	Dissolved Zinc	< 0.005	mg/L	0.005	1.	13	10/4/2017	
Std Method 2320 B	pH	7.2	pH Units	0.1	1.	20	10/2/2017	
Std Method 2510-B	Specific Conductance	199	µS/cm@25°C	1.	1.	20	10/2/2017	
Std Method 2320 B	Total Alkalinity	42	mg/L as CaCO3	1.	1.	20	10/2/2017	
EPA 200.8 (T)	Total Aluminum	0.011	mg/L	0.01	1.	13	10/5/2017	
EPA 200.8 (T)	Total Antimony	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Arsenic	0.002	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Barium	0.019	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (T)	Total Beryllium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Cadmium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Chromium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Copper	0.001	mg/L	0.001	1.	13	10/5/2017	
Std Method 2540 C	Total Dissolved Solids	115	mg/L	1.	1.	20	10/4/2017	
EPA 200.8 (T)	Total Iron	0.011	mg/L	0.005	1.	13	10/5/2017	
EPA 351.2	Total Kjeldahl Nitrogen	0.3	mg/L as N	0.1	1.	86	10/17/2017	
EPA 200.8 (T)	Total Lead	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Manganese	< 0.005	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (T)	Total Nickel	0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 415.1 (T) Ox	Total Organic Carbon	3	mg/L as C	0.5	1.	67	10/4/2017	
EPA 365.4	Total Phosphorus	0.09	mg/L as P	0.01		86	10/20/2017	
EPA 200.8 (T)	Total Selenium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Silver	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 160.2	Total Suspended Solids	2	mg/L	1.	1.	67	10/3/2017	
EPA 200.8 (T)	Total Zinc	< 0.005	mg/L	0.005	1.	13	10/5/2017	

Report of Analytical Results, Cont

Sample Number BL0917B0413 **Inorganic Analytical Results**

BL0917B0413 *Sample Type(Purpose):* Normal Sample *Depth:* 200 *Collection Date:* 09/28/2017 12:15

StationNumber: Py Nr WPP B *StationName:* Pyramid Lk Nr WPP B *Matrix:* Water, Natural *Cost Code:* 30375000

Sample Condition: 1.0 °C when received. Iced.

Method	Analyte	Result	Units	R.L.	Dilution	ChemID	Analysis Date	Flags and Notes:
EPA 200.8 (D)	Dissolved Aluminum	< 0.01	mg/L	0.01	1.	13	10/4/2017	
EPA 350.1 (D)	Dissolved Ammonia	< 0.01	mg/L as N	0.01	1.	86	10/10/2017	
EPA 200.8 (D)	Dissolved Antimony	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Arsenic	0.002	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Barium	0.018	mg/L	0.005	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Beryllium	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Cadmium	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.7 (D)	Dissolved Calcium	11	mg/L	1.	1.	10	10/4/2017	
EPA 300.0 28d Hold	Dissolved Chloride	24	mg/L	1.	1.	9	10/3/2017	
EPA 200.8 (D)	Dissolved Chromium	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Copper	0.001	mg/L	0.001	1.	13	10/4/2017	
Std Method 2340 B	Dissolved Hardness	51	mg/L as CaCO3	1.	1.	10	10/4/2017	
EPA 200.8 (D)	Dissolved Iron	0.005	mg/L	0.005	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Lead	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.7 (D)	Dissolved Magnesium	6	mg/L	1.	1.	10	10/4/2017	
EPA 200.8 (D)	Dissolved Manganese	< 0.005	mg/L	0.005	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Nickel	< 0.001	mg/L	0.001	1.	13	10/4/2017	
Std Method 4500-NO3-F (28	Dissolved Nitrate + Nitrite	0.18	mg/L as N	0.01	1.	86	10/10/2017	
EPA 415.1 (D) Ox	Dissolved Organic Carbon	2.8	mg/L as C	0.5	1.	67	10/4/2017	
EPA 365.1 (DWR Modified)	Dissolved Ortho-phosphate	0.07	mg/L as P	0.01	1.	86	10/10/2017	
EPA 200.7 (D)	Dissolved Potassium	1.7	mg/L	0.5	1.	10	10/4/2017	
EPA 200.8 (D)	Dissolved Selenium	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Silver	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.7 (D)	Dissolved Sodium	19	mg/L	1.	1.	10	10/4/2017	
EPA 300.0 28d Hold	Dissolved Sulfate	15	mg/L	1.	1.	9	10/3/2017	
EPA 200.8 (D)	Dissolved Zinc	< 0.005	mg/L	0.005	1.	13	10/4/2017	
Std Method 2320 B	pH	7.2	pH Units	0.1	1.	20	10/2/2017	
Std Method 2510-B	Specific Conductance	206	µS/cm@25°C	1.	1.	20	10/2/2017	
Std Method 2320 B	Total Alkalinity	44	mg/L as CaCO3	1.	1.	20	10/2/2017	
EPA 200.8 (T)	Total Aluminum	0.016	mg/L	0.01	1.	13	10/5/2017	
EPA 200.8 (T)	Total Aluminum	0.016	mg/L	0.01	1.	13	10/5/2017	Dup-BL0917B0413
EPA 200.8 (T)	Total Antimony	< 0.001	mg/L	0.001	1.	13	10/5/2017	Dup-BL0917B0413
EPA 200.8 (T)	Total Antimony	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Arsenic	0.002	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Arsenic	0.002	mg/L	0.001	1.	13	10/5/2017	Dup-BL0917B0413
EPA 200.8 (T)	Total Barium	0.019	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (T)	Total Barium	0.019	mg/L	0.005	1.	13	10/5/2017	Dup-BL0917B0413
EPA 200.8 (T)	Total Beryllium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Beryllium	< 0.001	mg/L	0.001	1.	13	10/5/2017	Dup-BL0917B0413
EPA 200.8 (T)	Total Cadmium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Cadmium	< 0.001	mg/L	0.001	1.	13	10/5/2017	Dup-BL0917B0413
EPA 200.8 (T)	Total Chromium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Chromium	< 0.001	mg/L	0.001	1.	13	10/5/2017	Dup-BL0917B0413
EPA 200.8 (T)	Total Copper	0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Copper	0.001	mg/L	0.001	1.	13	10/5/2017	Dup-BL0917B0413
Std Method 2540 C	Total Dissolved Solids	116	mg/L	1.	1.	20	10/4/2017	
EPA 200.8 (T)	Total Iron	0.021	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (T)	Total Iron	0.022	mg/L	0.005	1.	13	10/5/2017	Dup-BL0917B0413
EPA 351.2	Total Kjeldahl Nitrogen	0.1	mg/L as N	0.1	1.	86	10/17/2017	
EPA 200.8 (T)	Total Lead	< 0.001	mg/L	0.001	1.	13	10/5/2017	Dup-BL0917B0413
EPA 200.8 (T)	Total Lead	< 0.001	mg/L	0.001	1.	13	10/5/2017	

Sample Number **BL0917B0413** ***Inorganic Analytical Results***

EPA 200.8 (T)	Total Manganese	0.005	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (T)	Total Manganese	0.005	mg/L	0.005	1.	13	10/5/2017	Dup-BL0917B0413
EPA 200.8 (T)	Total Nickel	0.001	mg/L	0.001	1.	13	10/5/2017	Dup-BL0917B0413
EPA 200.8 (T)	Total Nickel	0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 415.1 (T) Ox	Total Organic Carbon	2.8	mg/L as C	0.5	1.	67	10/4/2017	
EPA 365.4	Total Phosphorus	0.09	mg/L as P	0.01		86	10/20/2017	
EPA 200.8 (T)	Total Selenium	< 0.001	mg/L	0.001	1.	13	10/5/2017	Dup-BL0917B0413
EPA 200.8 (T)	Total Selenium	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Silver	< 0.001	mg/L	0.001	1.	13	10/5/2017	Dup-BL0917B0413
EPA 200.8 (T)	Total Silver	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 160.2	Total Suspended Solids	< 1	mg/L	1.	1.	67	10/3/2017	
EPA 200.8 (T)	Total Zinc	0.007	mg/L	0.005	1.	13	10/5/2017	Dup-BL0917B0413
EPA 200.8 (T)	Total Zinc	0.007	mg/L	0.005	1.	13	10/5/2017	

Sample Number **BL0917B0420** ***Inorganic Analytical Results***

BL0917B0420 ***Sample Type(Purpose):*** Duplicate Sample BL0917B0408 ***Depth:*** 3 Ft. ***Collection Date:*** 09/28/2017 09:00

StationNumber: PY Nr Dm ***StationName:*** Pyramid Lake Nr Dam ***Matrix:*** Water, Natural ***Cost Code:*** 30375000

Sample Condition: 1.0 °C when received. Iced.

Method	*Analyte*	*Result*	*Units*	*R.L.*	*Dilution*	*ChemID*	*Analysis Date*	*Flags and Notes:*
EPA 200.8 (D)	Dissolved Aluminum	< 0.01	mg/L	0.01	1.	13	10/4/2017	
EPA 350.1 (D)	Dissolved Ammonia	< 0.01	mg/L as N	0.01	1.	86	10/10/2017	
EPA 200.8 (D)	Dissolved Antimony	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Arsenic	0.002	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Barium	0.018	mg/L	0.005	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Beryllium	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Cadmium	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.7 (D)	Dissolved Calcium	11	mg/L	1.	1.	10	10/4/2017	
EPA 300.0 28d Hold	Dissolved Chloride	23	mg/L	1.	1.	9	10/3/2017	
EPA 200.8 (D)	Dissolved Chromium	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Copper	0.001	mg/L	0.001	1.	13	10/4/2017	
Std Method 2340 B	Dissolved Hardness	50	mg/L as CaCO3	1.	1.	10	10/4/2017	
EPA 200.8 (D)	Dissolved Iron	< 0.005	mg/L	0.005	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Lead	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.7 (D)	Dissolved Magnesium	5	mg/L	1.	1.	10	10/4/2017	
EPA 200.8 (D)	Dissolved Manganese	< 0.005	mg/L	0.005	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Nickel	< 0.001	mg/L	0.001	1.	13	10/4/2017	
Std Method 4500-NO3-F (28	Dissolved Nitrate + Nitrite	0.2	mg/L as N	0.01	1.	86	10/10/2017	
EPA 415.1 (D) Ox	Dissolved Organic Carbon	2.7	mg/L as C	0.5	1.	67	10/4/2017	
EPA 365.1 (DWR Modified)	Dissolved Ortho-phosphate	0.05	mg/L as P	0.01	1.	86	10/10/2017	
EPA 200.7 (D)	Dissolved Potassium	1.8	mg/L	0.5	1.	10	10/4/2017	
EPA 200.8 (D)	Dissolved Selenium	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.8 (D)	Dissolved Silver	< 0.001	mg/L	0.001	1.	13	10/4/2017	
EPA 200.7 (D)	Dissolved Sodium	18	mg/L	1.	1.	10	10/4/2017	
EPA 300.0 28d Hold	Dissolved Sulfate	15	mg/L	1.	1.	9	10/3/2017	
EPA 200.8 (D)	Dissolved Zinc	< 0.005	mg/L	0.005	1.	13	10/4/2017	
Std Method 2320 B	pH	7.2	pH Units	0.1	1.	20	10/2/2017	
Std Method 2320 B	pH	7.2	pH Units	0.1	1.	20	10/2/2017	Dup-BL0917B0420
Std Method 2510-B	Specific Conductance	200	µS/cm@25°C	1.	1.	20	10/2/2017	Dup-BL0917B0420
Std Method 2510-B	Specific Conductance	200	µS/cm@25°C	1.	1.	20	10/2/2017	
Std Method 2320 B	Total Alkalinity	42	mg/L as CaCO3	1.	1.	20	10/2/2017	Dup-BL0917B0420
Std Method 2320 B	Total Alkalinity	42	mg/L as CaCO3	1.	1.	20	10/2/2017	
EPA 200.8 (T)	Total Aluminum	0.012	mg/L	0.01	1.	13	10/5/2017	
EPA 200.8 (T)	Total Antimony	< 0.001	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Arsenic	0.002	mg/L	0.001	1.	13	10/5/2017	
EPA 200.8 (T)	Total Barium	0.019	mg/L	0.005	1.	13	10/5/2017	
EPA 200.8 (T)	Total Beryllium	< 0.001	mg/L	0.001	1.	13	10/5/2017	

Report of Analytical Results, Cont

Sample Number BL0917B0420 — ***Inorganic Analytical Results***

EPA 200.8 (T)	Total Cadmium	< 0.001	mg/L	0.001	1.	13	10/5/2017
EPA 200.8 (T)	Total Chromium	< 0.001	mg/L	0.001	1.	13	10/5/2017
EPA 200.8 (T)	Total Copper	0.001	mg/L	0.001	1.	13	10/5/2017
Std Method 2540 C	Total Dissolved Solids	113	mg/L	1.	1.	20	10/4/2017
EPA 200.8 (T)	Total Iron	0.015	mg/L	0.005	1.	13	10/5/2017
EPA 351.2	Total Kjeldahl Nitrogen	0.2	mg/L as N	0.1	1.	86	10/17/2017
EPA 200.8 (T)	Total Lead	< 0.001	mg/L	0.001	1.	13	10/5/2017
EPA 200.8 (T)	Total Manganese	< 0.005	mg/L	0.005	1.	13	10/5/2017
EPA 200.8 (T)	Total Nickel	0.001	mg/L	0.001	1.	13	10/5/2017
EPA 415.1 (T) Ox	Total Organic Carbon	2.8	mg/L as C	0.5	1.	67	10/4/2017
EPA 365.4	Total Phosphorus	0.09	mg/L as P	0.01		86	10/20/2017
EPA 200.8 (T)	Total Selenium	< 0.001	mg/L	0.001	1.	13	10/5/2017
EPA 200.8 (T)	Total Silver	< 0.001	mg/L	0.001	1.	13	10/5/2017
EPA 160.2	Total Suspended Solids	< 1	mg/L	1.	1.	67	10/3/2017
EPA 200.8 (T)	Total Zinc	< 0.005	mg/L	0.005	1.	13	10/5/2017

FERC Project No. 2426
South SWP Hydropower
Water Quality and Temperature Study

September 7, 2018

Consistent with the Response to Comments on I SR and I SR Meeting Summary dated August 8, 2018, the licensees are providing results from the agreed upon E.coli sampling at Pyramid Lake. The following laboratory report provides results from the August 21, 2018 water quality sampling event conducted at Pyramid Lake. These results are not included in the April 30, 2018 Field Results and Data Summary for the SSWP Water Quality and Temperature Study posted to the Department of Water Resources South SWP Hydropower Relicensing Website. Once fieldwork is complete, and all data have been evaluated, the Field Results and Data Summary will be updated.

eurofins | Eaton Analytical

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

ilac-MRA

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY AT-1807

Laboratory Report

for

HDR
2379 Gateway Oaks Dr #200
Sacramento, CA 95833
Attention: Chuck Vertucci

NELAP RECOGNIZED TNI ACCREDITATION BODY

Utah ELCP CA00006

Date of Issue
08/24/2018

Kasey Raley

EUROFINS EATON ANALYTICAL, LLC

Report: 757425
Project: PYRAMIDLAKE
Group: Pyramid Lake

H1NJ: Kasey Raley

Project Manager

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.
* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.
* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.
* Test results relate only to the sample(s) tested.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
Arizona	AZ0778	**Montana**	Cert 0035
Arkansas	Certified	**Nebraska**	Certified
California-Monrovia-ELAP	2813	**Nevada**	CA000062018
California-Colton- ELAP	2812	**New Hampshire ***	2959
Colorado	Certified	**New Jersey ***	CA 008
Connecticut	PH-0107	**New Mexico**	Certified
Delaware	CA 006	**New York ***	11320
Florida *	E871024	**North Carolina**	06701
Georgia	947	**North Dakota**	R-009
Guam	18-005R	**Oregon ***	CA200003-005
Hawaii	Certified	**Pennsylvania ***	68-565
Idaho	Certified	**Puerto Rico**	Certified
Illinois *	200033	**Rhode Island**	LAO00326
Indiana	C-CA-01	**South Carolina**	87016
Iowa - Asbestos	413	**South Dakota**	Certified
Kansas *	E-10268	**Tennessee**	TN02839
Kentucky	90107	**Texas ***	T104704230-17-13
Louisiana *	LA180000	**Utah (Primary AB) ***	CA00006
Maine	CA0006	**Vermont**	VT0114
Maryland	224	**Virginia ***	460260
Commonwealth of Northern Marianas Is.	MP0004	**Washington**	C838
Massachusetts	M-CA006	**EPA Region 5**	Certified
Michigan	9906	**Los Angeles County Sanitation Districts**	10264

* NELAP/TNI Recognized Accreditation Bodies

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ISO 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ANAB.

Refer to Certificate and scope of accreditation (AT 1807) found at: http://www.eatonanalytical.com

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environ-mental (Drinking Water)	Environ-mental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
1,4-Dioxane	EPA 522	x		x
2,3,7,8-TCDD	Modified EPA 1613B	x		x
Acrylamide	In House Method (2440)	x		x
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x		x
Asbestos	EPA 100.2	x	x	
Bicarbonate Alkalinity as HCO3	SM 2320B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method (2447)	x		x
Carbamates	EPA 531.2	x		x
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x		x
COD	EPA 410.4 / SM 5220D		x	
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x		x
Chlorinated Acids	EPA 555	x		x
Chlorine Dioxide	SM 4500-CLO2 D	x		x
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1		x	
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x		x
Cryptosporidium	EPA 1623	x		x
Cyanide, Amenable	SM 4500-CN G	x	x	
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method (2470)	x		x
Diquat and Paraquat	EPA 549.2	x		x
DBP/HAA	SM 6251B	x		x
Dissolved Oxygen	SM 4500-O G		x	x
DOC	SM 5310C	x		x
E. Coli	(MTF/EC+MUG)	x		x
E. Coli	CFR 141.21(f)(6)(i)	x		x
E. Coli	SM 9223		x	
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x		x
E. Coli (Enumeration)	SM 9223B	x		x
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x		x
EDTA and NTA	In House Method (2454)	x		x
Endothall	EPA 548.1	x		x
Endothall	In-house Method (2445)	x		x
Enterococci	SM 9230B	x	x	
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)		x	
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x		x
Fecal Coliform with Chlorine Present	SM 9221E		x	
Fecal Streptococci	SM 9230B	x	x	
Fluoride	SM 4500-F C	x	x	x
Giardia	EPA 1623	x		x
Glyphosate	EPA 547	x		x
Gross Alpha/Beta	EPA 900.0	x	x	x
Gross Alpha Coprecipitation	SM 7110 C	x	x	x
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method (2439)	x		x
Heterotrophic Bacteria	SM 9215 B	x		x
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x		x
Hexavalent Chromium	SM 3500-Cr B		x	
Hormones	EPA 539	x		x
Hydroxide as OH Calc.	SM 2330B	x		x
Kjeldahl Nitrogen	EPA 351.2		x	
Legionella	CDC Legionella	x		x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA (2360)	x		x
NDMA	EPA 521	x		x
NDMA	TQ In house method based on EPA 521 (2425)	x		x
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x		x
Ortho Phosphate	EPA 365.1	x	x	x
Ortho Phosphate	SM 4500P E			x
Ortho Phosphorous	SM 4500P E	x		
Oxyhalides Disinfection Byproducts	EPA 317.0	x		x
Perchlorate	EPA 331.0	x		x
Perchlorate (low and high)	EPA 314.0	x		x
Perfluorinated Alkyl Acids	EPA 537	x		x
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method, based on EPA 532 (2448)	x		x
Pseudomonas	IDEXX Pseudalert (2461)	x		x
Radium-226	GA Institute of Tech	x		x
Radium-228	GA Institute of Tech	x		x
Radon-222	SM 7500RN	x		x
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D		x	
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4		x	
Semi-VOC	EPA 525.2	x		x
Semi-VOC	EPA 625		x	x
Silica	SM 4500-Si D	x	x	
Silica	SM 4500-SiO2 C	x	x	
Sulfide	SM 4500-$S^{=}$ D		x	
Sulfite	SM 4500-SO^{3}B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x		x
Total Coliform (P/A)	SM 9221 A, B	x		x
Total Coliform (Enumeration)	SM 9221 A, B, C	x		x
Total Coliform / E. coli	Colisure SM 9223	x		x
Total Coliform	SM 9221B		x	
Total Coliform with Chlorine Present	SM 9221B		x	
Total Coliform / E.coli (P/A and Enumeration)	SM 9223	x		x
TOC	SM 5310C	x	x	x
TOX	SM 5320B		x	
Total Phenols	EPA 420.1		x	
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P E		x	
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x	x	
Uranium by ICP/MS	EPA 200.8	x		x
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x		x
VOC	EPA 624		x	x
VOC	EPA SW 846 8260	x		x
VOC	In House Method (2411)	x		x
Yeast and Mold	SM 9610	x		x

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Acknowledgement of Samples Received

Addr: **HDR**
2379 Gateway Oaks Dr #200
Sacramento, CA 95833
USA

Attn: Chuck Vertucci
Phone: 916-679-8768

Client ID: HDR-FOLSOM
Folder #: 757425
Project: PYRAMIDLAKE
Sample Group: Pyramid Lake

Project Manager: Kasey Raley
Phone:
PO #: PAY WITH CC

The following samples were received from you on **August 21, 2018** at **1618**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical, LLC.

Sample #	Sample ID	Sample Date
201808220070	Bact. 1 - Near Dam	08/21/2018 1320
	@QUANT2000 18HR	
201808220071	Bact. 2 - Piru	08/21/2018 1250
	@QUANT2000 18HR	

Test Description

@QUANT2000 18HR -- Quantitray Coliforms 18 Hour

CHAIN OF CUSTODY RECORD

75-7425

eurofins | Eaton Analytical

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

Website: www.EatonAnalytical.com

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____ SAMPLES CHECKED AGAINST COC BY: _____

SAMPLES LOGGED IN BY: _____

SAMPLE TEMP RECEIVED AT: SAMPLES REC'D DAY OF COLLECTION? ☐ (check for yes)

☐ _____ (Other) IR Gun ID = _____ (Observation= _____ °C) (Corr.Factor _____ °C) (Final = _____ °C)

☑ Monrovia IR Gun ID = 630 (Observation= 16.5 °C) (Corr.Factor -0.2 °C) (Final = 10.3 °C)

Compliance Acceptance Criteria: (Chemistry: 4 ± 2 °C) (Microbiology: < 10°C)

TYPE OF ICE: Real ✓ Synthetic ____ No Ice ____ CONDITION OF ICE: Frozen ✓ Partially Frozen ____ Thawed ____ N/A ____

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: _____

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME:	PROJECT CODE:	COMPLIANCE SAMPLES (check for yes) ☐	NON-COMPLIANCE SAMPLES (check for yes) ☐
HDR + FOLSOM	SSVP	- Requires state forms ☐	REGULATION INVOLVED:
EEA CLIENT CODE: / COC ID:	SAMPLE GROUP: PYRAMIDLAKE	Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION	(eg. SDWA, NPDES, etc.)
TAT requested: rush by adv notice only STD ___ 1 wk ___ 3 day ___ 2 day ___ 1 day ___		*SEE ATTACHED KIT ORDER FOR ANALYSES* ☐ (check for yes), OR	
		List ALL ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)	

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	QUANTITY												SAMPLER COMMENTS
8/21	1320	Bact. 1 - Near Dam					X												
8/21	1350	Bact. 2 - Pier					X												

1623
08/21/18
MM

* **MATRIX TYPES:** **RSW** = Raw Surface Water **RGW** = Raw Ground Water **CFW** = Chlor(am)inated Finished Water **FW** = Other Finished Water **SEAW** = Sea Water **WW** = Waste Water **BW** = Bottled Water **SW** = Storm Water **SO** = Soil **SL** = Sludge **O** = Other - Please Identify

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:	Adam Lockyer	Adam Lockyer	HDR Biologist	8/21/18	1330
RELINQUISHED BY:	Adam Lockyer	Adam Lockyer	HDR Biologist	8/21/18	1618
RECEIVED BY:		Theodore Nagy	CETH	8/21/18	1618
RELINQUISHED BY:					
RECEIVED BY:					

eurofins | Eaton Analytical

Laboratory Report: 757425

Report of Analysis by 18-Hour Colilert Test for Presence or Absence, Quantification of Total Coliform and E. Coli By Quantitray

HDR
2379 Gateway Oaks Dr #200
Sacramento, CA 95833
Attn: Chuck Vertucci

Project: PYRAMIDLAKE
Phone #: 916-679-8768
Date Received: 08/21/2018
Sampled By:
Sample Project Group: Pyramid Lake

Date/Time Sampled	Date/Time Prepped	Date/Time Analyzed	Lab#	Sample Description	# Positive Wells				MPN/100 mL		Presence/Absence (P/A)*	
					Total Coliform Small	Total Coliform Large	E. Coli Small	E. Coli Large	Total Coliform	E. Coli	Total Coliform	E. Coli
08/21/2018 13:20	08/21/2018 18:24	08/22/2018 12:46	201808220070	Bact. 1 - Near Dam	49	48	ND	ND	>2419.6	<1	P	A
08/21/2018 12:50	08/21/2018 18:24	08/22/2018 12:46	201808220071	Bact. 2 - Piru	49	48	ND	ND	>2419.6	<1	P	A

Lab Notification:
Coliform Notification emailed to Client Contact List, 083.22.18 @ 1347.

*** Presence or absence of coliforms or growth is indicated as follows:**
P = Presence; A = Absence

Notification Required YES

Approved by _____

Date of Issue: 08/22/2018

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton

FERC Project No. 2426
South SWP Hydropower
Water Quality and Temperature Study

September 7, 2018

Consistent with the Response to Comments on I SR and I SR Meeting Summary dated August 8, 2018, the licensees are providing results from the agreed upon E.coli sampling at Pyramid Lake. The following laboratory report provides results from the August 28, 2018 water quality sampling event conducted at Pyramid Lake. These results are not included in the April 30, 2018 Field Results and Data Summary for the SSWP Water Quality and Temperature Study posted to the Department of Water Resources South SWP Hydropower Relicensing Website. Once fieldwork is complete, and all data have been evaluated, the Field Results and Data Summary will be updated.

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ilac-MRA

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY AT-1807

Laboratory Report

for

HDR
2379 Gateway Oaks Dr #200
Sacramento, CA 95833
Attention: Chuck Vertucci

NELAP RECOGNIZED TNI ACCREDITATION BODY

Utah ELCP CA00006

Date of Issue
08/30/2018

Kasey Raley

EUROFINS EATON ANALYTICAL, LLC

Report: 758792
Project: PYRAMIDLAKE
Group: Pyramid Lake

H1NJ: Kasey Raley

Project Manager

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.
* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.
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Indiana	C-CA-01	**South Carolina**	87016
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Kentucky	90107	**Texas ***	T104704230-17-13
Louisiana *	LA180000	**Utah (Primary AB) ***	CA00006
Maine	CA0006	**Vermont**	VT0114
Maryland	224	**Virginia ***	460260
Commonwealth of Northern Marianas Is.	MP0004	**Washington**	C838
Massachusetts	M-CA006	**EPA Region 5**	Certified
Michigan	9906	**Los Angeles County Sanitation Districts**	10264

* NELAP/TNI Recognized Accreditation Bodies

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1,4-Dioxane	EPA 522	x		x
2,3,7,8-TCDD	Modified EPA 1613B	x		x
Acrylamide	In House Method (2440)	x		x
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x		x
Asbestos	EPA 100.2	x	x	
Bicarbonate Alkalinity as HCO3	SM 2320B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method (2447)	x		x
Carbamates	EPA 531.2	x		x
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x		x
COD	EPA 410.4 / SM 5220D		x	
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x		x
Chlorinated Acids	EPA 555	x		x
Chlorine Dioxide	SM 4500-CLO2 D	x		x
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1		x	
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x		x
Cryptosporidium	EPA 1623	x		x
Cyanide, Amenable	SM 4500-CN G	x	x	
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method (2470)	x		x
Diquat and Paraquat	EPA 549.2	x		x
DBP/HAA	SM 6251B	x		x
Dissolved Oxygen	SM 4500-O G		x	x
DOC	SM 5310C	x		x
E. Coli	(MTF/EC+MUG)	x		x
E. Coli	CFR 141.21(f)(6)(i)	x		x
E. Coli	SM 9223		x	
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x		x
E. Coli (Enumeration)	SM 9223B	x		x
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x		x
EDTA and NTA	In House Method (2454)	x		x
Endothall	EPA 548.1	x		x
Endothall	In-house Method (2445)	x		x
Enterococci	SM 9230B	x	x	
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)		x	
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x		x
Fecal Coliform with Chlorine Present	SM 9221E		x	
Fecal Streptococci	SM 9230B	x	x	
Fluoride	SM 4500-F C	x	x	x
Giardia	EPA 1623	x		x
Glyphosate	EPA 547	x		x
Gross Alpha/Beta	EPA 900.0	x	x	x
Gross Alpha Coprecipitation	SM 7110 C	x	x	x
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method (2439)	x		x
Heterotrophic Bacteria	SM 9215 B	x		x
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x		x
Hexavalent Chromium	SM 3500-Cr B		x	
Hormones	EPA 539	x		x
Hydroxide as OH Calc.	SM 2330B	x		x
Kjeldahl Nitrogen	EPA 351.2		x	
Legionella	CDC Legionella	x		x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA (2360)	x		x
NDMA	EPA 521	x		x
NDMA	TQ In house method based on EPA 521 (2425)	x		x
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x		x
Ortho Phosphate	EPA 365.1	x	x	x
Ortho Phosphate	SM 4500P E			x
Ortho Phosphorous	SM 4500P E	x		
Oxyhalides Disinfection Byproducts	EPA 317.0	x		x
Perchlorate	EPA 331.0	x		x
Perchlorate (low and high)	EPA 314.0	x		x
Perfluorinated Alkyl Acids	EPA 537	x		x
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method, based on EPA 532 (2448)	x		x
Pseudomonas	IDEXX Pseudalert (2461)	x		x
Radium-226	GA Institute of Tech	x		x
Radium-228	GA Institute of Tech	x		x
Radon-222	SM 7500RN	x		x
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D		x	
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4		x	
Semi-VOC	EPA 525.2	x		x
Semi-VOC	EPA 625		x	x
Silica	SM 4500-Si D	x	x	
Silica	SM 4500-SiO2 C	x	x	
Sulfide	SM 4500-$S^{=}$ D		x	
Sulfite	SM 4500-SO^{3}B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x		x
Total Coliform (P/A)	SM 9221 A, B	x		x
Total Coliform (Enumeration)	SM 9221 A, B, C	x		x
Total Coliform / E. coli	Colisure SM 9223	x		x
Total Coliform	SM 9221B		x	
Total Coliform with Chlorine Present	SM 9221B		x	
Total Coliform / E.coli (P/A and Enumeration)	SM 9223	x		x
TOC	SM 5310C	x	x	x
TOX	SM 5320B		x	
Total Phenols	EPA 420.1		x	
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P E		x	
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x	x	
Uranium by ICP/MS	EPA 200.8	x		x
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x		x
VOC	EPA 624		x	x
VOC	EPA SW 846 8260	x		x
VOC	In House Method (2411)	x		x
Yeast and Mold	SM 9610	x		x

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Acknowledgement of Samples Received

Addr: **HDR**
2379 Gateway Oaks Dr #200
Sacramento, CA 95833
USA

Attn: Chuck Vertucci
Phone: 916-679-8768

Client ID: HDR-FOLSOM
Folder #: 758792
Project: PYRAMIDLAKE
Sample Group: Pyramid Lake

Project Manager: Kasey Raley
Phone:
PO #: PAY WITH CC

The following samples were received from you on **August 28, 2018** at **14:41**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical, LLC.

Sample #	Sample ID	Sample Date
201808290171	SSWP Bact. 2 Piru A	08/28/2018 1150
	@QUANT2000 18HR	
201808290172	SSWP Bact. 2 Piru B	08/28/2018 1150
	@QUANT2000 18HR	
201808290173	SSWP Bact. 1 Near Dam A	08/28/2018 1251
	@QUANT2000 18HR	
201808290174	SSWP Bact. 1 Near Dam B	08/28/2018 1251
	@QUANT2000 18HR	

Test Description

@QUANT2000 18HR -- Quantitray Coliforms 18 Hour

CHAIN OF CUSTODY RECORD

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750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

Website: www.EatonAnalytical.com

759792

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____

SAMPLES CHECKED AGAINST COC BY: pm

SAMPLES LOGGED IN BY: JB

SAMPLES REC'D DAY OF COLLECTION? ☑ (check for yes)

SAMPLE TEMP RECEIVED AT:

☐ _____ (Other) IR Gun ID = _____ (Observation= _____ °C) (Corr.Factor _____ °C) (Final = _____ °C)

☑ Monrovia IR Gun ID = 0631A (Observation= 11.3 °C) (Corr.Factor -0.2 °C) (Final = 11.1 °C)

Compliance Acceptance Criteria: (Chemistry: 4 ± 2 °C) (Microbiology: < 10°C)

TYPE OF ICE: Real ✓ Synthetic ____ No Ice ____ **CONDITION OF ICE:** Frozen ✓ Partially Frozen ____ Thawed ____ N/A ____

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: _____

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: HDR - FOLSOM

PROJECT CODE: PYRAMID LAKE

EEA CLIENT CODE: _____ **COC ID:** _____ **SAMPLE GROUP:** _____

TAT requested: rush by adv notice only STD ___ 1 wk ___ 3 day ___ 2 day ___ 1 day ___

(check for yes) (check for yes)

COMPLIANCE SAMPLES ☐ **NON-COMPLIANCE SAMPLES** ☐

- Requires state forms ☐ REGULATION INVOLVED: _____

Type of samples (circle one): **ROUTINE SPECIAL CONFIRMATION** (eg. SDWA, NPDES, etc.)

SEE ATTACHED KIT ORDER FOR ANALYSES ☐ (check for yes), ***OR***

List **ALL ANALYSES REQUIRED** (enter number of bottles sent for each test for each sample)

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	Diuron 2ug												SAMPLER COMMENTS
8/28	1150	SSWP Back. 2 Pirn A					X												
8/28	1150	SSWP Back. 2 Pirn B					X												1447 AB3m 08/28/18
8/28	1251	SSWP Back. 1 near dam A					X												
8/28	1251	SSWP Back. 1 near dam B					X pm												

* **MATRIX TYPES:** **RSW** = Raw Surface Water **RGW** = Raw Ground Water **CFW** = Chlor(am)inated Finished Water **FW** = Other Finished Water **SEAW** = Sea Water **WW** = Waste Water **BW** = Bottled Water **SW** = Storm Water **SO** = Soil **SL** = Sludge **O** = Other - Please Identify

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:	Adam Lokyer	Adam Lokyer	HDR	8/28/18	1150
RELINQUISHED BY:	Adam Lokyer	Adam Lokyer	HDR	8/28/18	1441
RECEIVED BY:		Paul Reuiss	EEA	8-28-18	1441
RELINQUISHED BY:					
RECEIVED BY:					

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Laboratory Report: 758792

Report of Analysis by 18-Hour Colilert Test for Presence or Absence, Quantification of Total Coliform and E. Coli By Quantitray

HDR
2379 Gateway Oaks Dr #200
Sacramento, CA 95833
Attn: Chuck Vertucci

Project: PYRAMIDLAKE
Phone #: 916-679-8768
Date Received: 08/28/2018
Sampled By:
Sample Project Group: Pyramid Lake

Date/Time Sampled	Date/Time Prepped	Date/Time Analyzed	Lab#	Sample Description	# Positive Wells				MPN/100 mL		Presence/Absence (P/A)*	
					Total Coliform Small	Total Coliform Large	E. Coli Small	E. Coli Large	Total Coliform	E. Coli	Total Coliform	E. Coli
08/28/2018 11:50	08/28/2018 17:37	08/29/2018 13:14	201808290171	SSWP Bact. 2 Piru A	49	48	ND	ND	>2419.6	<1	P	A
08/28/2018 11:50	08/28/2018 17:37	08/29/2018 13:14	201808290172	SSWP Bact. 2 Piru B	49	48	1	ND	>2419.6	1	P	P
08/28/2018 12:51	08/28/2018 17:37	08/29/2018 13:14	201808290173	SSWP Bact. 1 Near Dam A	49	48	ND	ND	>2419.6	<1	P	A
08/28/2018 12:51	08/28/2018 17:37	08/29/2018 13:14	201808290174	SSWP Bact. 1 Near Dam B	49	48	ND	ND	>2419.6	<1	P	A

*** Presence or absence of coliforms or growth is indicated as follows:**
P = Presence; A = Absence

Notification Required YES

Approved by _____

Date of Issue: 08/29/2018

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton

FERC Project No. 2426
South SWP Hydropower
Water Quality and Temperature Study

September 7, 2018

Consistent with the Response to Comments on I SR and I SR Meeting Summary dated August 8, 2018, the licensees are providing results from the agreed upon E.coli sampling at Pyramid Lake. The following laboratory report provides results from the September 1, 2018 water quality sampling event conducted at Pyramid Lake. These results are not included in the April 30, 2018 Field Results and Data Summary for the SSWP Water Quality and Temperature Study posted to the Department of Water Resources South SWP Hydropower Relicensing Website. Once fieldwork is complete, and all data have been evaluated, the Field Results and Data Summary will be updated.

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Monrovia, California 91016-3629
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Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

ilac-MRA

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY AT-1807

Laboratory Report

for

HDR
2379 Gateway Oaks Dr #200
Sacramento, CA 95833
Attention: Chuck Vertucci

NELAP RECOGNIZED TNI ACCREDITATION BODY

Utah ELCP CA00006

Date of Issue
09/04/2018

Kasey Raley

EUROFINS EATON ANALYTICAL, LLC

Report: 759679
Project: PYRAMIDLAKE
Group: Pyramid Lake

H1NJ: Kasey Raley

Project Manager

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.
* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.
* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.
* Test results relate only to the sample(s) tested.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
Arizona	AZ0778	**Montana**	Cert 0035
Arkansas	Certified	**Nebraska**	Certified
California-Monrovia-ELAP	2813	**Nevada**	CA000062018
California-Colton- ELAP	2812	**New Hampshire ***	2959
Colorado	Certified	**New Jersey ***	CA 008
Connecticut	PH-0107	**New Mexico**	Certified
Delaware	CA 006	**New York ***	11320
Florida *	E871024	**North Carolina**	06701
Georgia	947	**North Dakota**	R-009
Guam	18-005R	**Oregon ***	CA200003-005
Hawaii	Certified	**Pennsylvania ***	68-565
Idaho	Certified	**Puerto Rico**	Certified
Illinois *	200033	**Rhode Island**	LAO00326
Indiana	C-CA-01	**South Carolina**	87016
Iowa - Asbestos	413	**South Dakota**	Certified
Kansas *	E-10268	**Tennessee**	TN02839
Kentucky	90107	**Texas ***	T104704230-17-13
Louisiana *	LA180000	**Utah (Primary AB) ***	CA00006
Maine	CA0006	**Vermont**	VT0114
Maryland	224	**Virginia ***	460260
Commonwealth of Northern Marianas Is.	MP0004	**Washington**	C838
Massachusetts	M-CA006	**EPA Region 5**	Certified
Michigan	9906	**Los Angeles County Sanitation Districts**	10264

* NELAP/TNI Recognized Accreditation Bodies

Eurofins Eaton Analytical, LLC
750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629
T | 626-386-1100
F | 866-988-3757
www.EurofinsUS.com/Eaton

ISO 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ANAB.

Refer to Certificate and scope of accreditation (AT 1807) found at: http://www.eatonanalytical.com

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environ-mental (Drinking Water)	Environ-mental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
1,4-Dioxane	EPA 522	x		x
2,3,7,8-TCDD	Modified EPA 1613B	x		x
Acrylamide	In House Method (2440)	x		x
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x		x
Asbestos	EPA 100.2	x	x	
Bicarbonate Alkalinity as HCO3	SM 2320B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method (2447)	x		x
Carbamates	EPA 531.2	x		x
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x		x
COD	EPA 410.4 / SM 5220D		x	
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x		x
Chlorinated Acids	EPA 555	x		x
Chlorine Dioxide	SM 4500-CLO2 D	x		x
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1		x	
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x		x
Cryptosporidium	EPA 1623	x		x
Cyanide, Amenable	SM 4500-CN G	x	x	
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method (2470)	x		x
Diquat and Paraquat	EPA 549.2	x		x
DBP/HAA	SM 6251B	x		x
Dissolved Oxygen	SM 4500-O G		x	x
DOC	SM 5310C	x		x
E. Coli	(MTF/EC+MUG)	x		x
E. Coli	CFR 141.21(f)(6)(i)	x		x
E. Coli	SM 9223		x	
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x		x
E. Coli (Enumeration)	SM 9223B	x		x
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x		x
EDTA and NTA	In House Method (2454)	x		x
Endothall	EPA 548.1	x		x
Endothall	In-house Method (2445)	x		x
Enterococci	SM 9230B	x	x	
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)		x	
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x		x
Fecal Coliform with Chlorine Present	SM 9221E		x	
Fecal Streptococci	SM 9230B	x	x	
Fluoride	SM 4500-F C	x	x	x
Giardia	EPA 1623	x		x
Glyphosate	EPA 547	x		x
Gross Alpha/Beta	EPA 900.0	x	x	x
Gross Alpha Coprecipitation	SM 7110 C	x	x	x
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method (2439)	x		x
Heterotrophic Bacteria	SM 9215 B	x		x
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x		x
Hexavalent Chromium	SM 3500-Cr B		x	
Hormones	EPA 539	x		x
Hydroxide as OH Calc.	SM 2330B	x		x
Kjeldahl Nitrogen	EPA 351.2		x	
Legionella	CDC Legionella	x		x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA (2360)	x		x
NDMA	EPA 521	x		x
NDMA	TQ In house method based on EPA 521 (2425)	x		x
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x		x
Ortho Phosphate	EPA 365.1	x	x	x
Ortho Phosphate	SM 4500P E			x
Ortho Phosphorous	SM 4500P E	x		
Oxyhalides Disinfection Byproducts	EPA 317.0	x		x
Perchlorate	EPA 331.0	x		x
Perchlorate (low and high)	EPA 314.0	x		x
Perfluorinated Alkyl Acids	EPA 537	x		x
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method, based on EPA 532 (2448)	x		x
Pseudomonas	IDEXX Pseudalert (2461)	x		x
Radium-226	GA Institute of Tech	x		x
Radium-228	GA Institute of Tech	x		x
Radon-222	SM 7500RN	x		x
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D		x	
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4		x	
Semi-VOC	EPA 525.2	x		x
Semi-VOC	EPA 625		x	x
Silica	SM 4500-Si D	x	x	
Silica	SM 4500-SiO2 C	x	x	
Sulfide	SM 4500-$S^{=}$ D		x	
Sulfite	SM 4500-SO^{3}B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x		x
Total Coliform (P/A)	SM 9221 A, B	x		x
Total Coliform (Enumeration)	SM 9221 A, B, C	x		x
Total Coliform / E. coli	Colisure SM 9223	x		x
Total Coliform	SM 9221B		x	
Total Coliform with Chlorine Present	SM 9221B		x	
Total Coliform / E.coli (P/A and Enumeration)	SM 9223	x		x
TOC	SM 5310C	x	x	x
TOX	SM 5320B		x	
Total Phenols	EPA 420.1		x	
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P E		x	
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x	x	
Uranium by ICP/MS	EPA 200.8	x		x
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x		x
VOC	EPA 624		x	x
VOC	EPA SW 846 8260	x		x
VOC	In House Method (2411)	x		x
Yeast and Mold	SM 9610	x		x

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Acknowledgement of Samples Received

Addr: **HDR**
2379 Gateway Oaks Dr #200
Sacramento, CA 95833
USA

Attn: Chuck Vertucci
Phone: 916-679-8768

Client ID: HDR-FOLSOM
Folder #: 759679
Project: PYRAMIDLAKE
Sample Group: Pyramid Lake

Project Manager: Kasey Raley
Phone:
PO #: PAY WITH CC

The following samples were received from you on **September 01, 2018** at **12:18**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical, LLC.

Sample #	Sample ID	Sample Date
201809040169	SSWP Bact. 2 Piru	09/01/2018 0942
	@QUANT2000 18HR Weekend Labor Charge	
201809040170	SSWP Bact. 1 Near Dam	09/01/2018 1007
	@QUANT2000 18HR Weekend Labor Charge	

Test Description

@QUANT2000 18HR -- Quantitray Coliforms 18 Hour

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CHAIN OF CUSTODY RECORD

759679

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

Website: www.EatonAnalytical.com

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____ **SAMPLES CHECKED AGAINST COC BY:** _____

SAMPLES LOGGED IN BY: JS

SAMPLE TEMP RECEIVED AT: **SAMPLES REC'D DAY OF COLLECTION?** ✓ (check for yes)

☐ _____ (Other) IR Gun ID = _____ (Observation= _____ °C) (Corr.Factor _____ °C) (Final = _____ °C)

☑ Monrovia IR Gun ID = 618A (Observation= 8.7 °C) (Corr.Factor -.1 °C) (Final = 8.6 °C)

Compliance Acceptance Criteria: (Chemistry: 4 ± 2 °C) (Microbiology: < 10°C)

TYPE OF ICE: Real ✓ Synthetic _____ No Ice _____ **CONDITION OF ICE:** Frozen ✓ Partially Frozen _____ Thawed _____ N/A _____

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: _____

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: HDR

PROJECT CODE: SSWP

EEA CLIENT CODE: HDR-Folsom

COC ID:

SAMPLE GROUP: Pyramid Lake

TAT requested: rush by adv notice only STD ___ 1 wk ___ 3 day ___ 2 day ___ 1 day ___

(check for yes) (check for yes)

COMPLIANCE SAMPLES ☐ **NON-COMPLIANCE SAMPLES** ☐

- Requires state forms ☐ REGULATION INVOLVED: _____

Type of samples (circle one): **ROUTINE SPECIAL CONFIRMATION** (eg. SDWA, NPDES, etc.)

SEE ATTACHED KIT ORDER FOR ANALYSES ☐ (check for yes), ***OR***

List ALL ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	Quant 200													SAMPLER COMMENTS
9/1	9:42	SSWP Bact. 2 Pyra					X													
9/1	1007	SSWP Bact. 1 near dam					X													
		HDR 09/01/18																		
		1231																		

* **MATRIX TYPES:** **RSW** = Raw Surface Water **RGW** = Raw Ground Water **CFW** = Chlor(am)inated Finished Water **FW** = Other Finished Water **SEAW** = Sea Water **WW** = Waste Water **BW** = Bottled Water **SW** = Storm Water **SO** = Soil **SL** = Sludge **O** = Other - Please Identify

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:	Adam Lockyer	Adam Lockyer	HDR	9/1/18	0942
RELINQUISHED BY:	Adam Lockyer	Adam Lockyer	HDR	9/1/18	1218
RECEIVED BY:			EEA	9/1/18	1218
RELINQUISHED BY:					
RECEIVED BY:					

eurofins | Eaton Analytical

Laboratory Report: 759679

Report of Analysis by 18-Hour Colilert Test for Presence or Absence, Quantification of Total Coliform and E. Coli By Quantitray

HDR
2379 Gateway Oaks Dr #200
Sacramento, CA 95833
Attn: Chuck Vertucci

Project: PYRAMIDLAKE
Phone #: 916-679-8768
Date Received: 09/01/2018
Sampled By:
Sample Project Group: Pyramid Lake

Date/Time Sampled	Date/Time Prepped	Date/Time Analyzed	Lab#	Sample Description	# Positive Wells				MPN/100 mL		Presence/Absence (P/A)*	
					Total Coliform Small	Total Coliform Large	E. Coli Small	E. Coli Large	Total Coliform	E. Coli	Total Coliform	E. Coli
09/01/2018 09:42	09/01/2018 14:50	09/02/2018 09:50	201809040169	SSWP Bact. 2 Piru	49	48	ND	ND	>2419.6	<1	P	A
09/01/2018 10:07	09/01/2018 14:50	09/02/2018 09:50	201809040170	SSWP Bact. 1 Near Dam	49	48	ND	ND	>2419.6	<1	P	A

*** Presence or absence of coliforms or growth is indicated as follows:**
P = Presence; A = Absence

Notification Required _____

Approved by _____

Date of Issue: 09/04/2018

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton

FERC Project No. 2426
South SWP Hydropower
Water Quality and Temperature Study

September 7, 2018

Consistent with the Response to Comments on I SR and I SR Meeting Summary dated August 8, 2018, the licensees are providing results from the agreed upon E.coli sampling at Pyramid Lake. The following laboratory report provides results from the September 4, 2018 water quality sampling event conducted at Pyramid Lake. These results are not included in the April 30, 2018 Field Results and Data Summary for the SSWP Water Quality and Temperature Study posted to the Department of Water Resources South SWP Hydropower Relicensing Website. Once fieldwork is complete, and all data have been evaluated, the Field Results and Data Summary will be updated.

eurofins | Eaton Analytical

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

ilac-MRA

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY AT-1807

Laboratory Report

for

HDR
2379 Gateway Oaks Dr #200
Sacramento, CA 95833
Attention: Chuck Vertucci

NELAP RECOGNIZED TNI ACCREDITATION BODY

Utah ELCP CA00006

Date of Issue
09/06/2018

Kasey Raley
EUROFINS EATON ANALYTICAL, LLC

Report: 759880
Project: PYRAMIDLAKE
Group: Pyramid Lake

H1NJ: Kasey Raley

Project Manager

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.
* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.
* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.
* Test results relate only to the sample(s) tested.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
Arizona	AZ0778	**Montana**	Cert 0035
Arkansas	Certified	**Nebraska**	Certified
California-Monrovia-ELAP	2813	**Nevada**	CA000062018
California-Colton- ELAP	2812	**New Hampshire ***	2959
Colorado	Certified	**New Jersey ***	CA 008
Connecticut	PH-0107	**New Mexico**	Certified
Delaware	CA 006	**New York ***	11320
Florida *	E871024	**North Carolina**	06701
Georgia	947	**North Dakota**	R-009
Guam	18-005R	**Oregon ***	CA200003-005
Hawaii	Certified	**Pennsylvania ***	68-565
Idaho	Certified	**Puerto Rico**	Certified
Illinois *	200033	**Rhode Island**	LAO00326
Indiana	C-CA-01	**South Carolina**	87016
Iowa - Asbestos	413	**South Dakota**	Certified
Kansas *	E-10268	**Tennessee**	TN02839
Kentucky	90107	**Texas ***	T104704230-17-13
Louisiana *	LA180000	**Utah (Primary AB) ***	CA00006
Maine	CA0006	**Vermont**	VT0114
Maryland	224	**Virginia ***	460260
Commonwealth of Northern Marianas Is.	MP0004	**Washington**	C838
Massachusetts	M-CA006	**EPA Region 5**	Certified
Michigan	9906	**Los Angeles County Sanitation Districts**	10264

* NELAP/TNI Recognized Accreditation Bodies

Eurofins Eaton Analytical, LLC
750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629
T | 626-386-1100
F | 866-988-3757
www.EurofinsUS.com/Eaton

ISO 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ANAB.

Refer to Certificate and scope of accreditation (AT 1807) found at: http://www.eatonanalytical.com

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environ-mental (Drinking Water)	Environ-mental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
1,4-Dioxane	EPA 522	x		x
2,3,7,8-TCDD	Modified EPA 1613B	x		x
Acrylamide	In House Method (2440)	x		x
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x		x
Asbestos	EPA 100.2	x	x	
Bicarbonate Alkalinity as HCO3	SM 2320B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method (2447)	x		x
Carbamates	EPA 531.2	x		x
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x		x
COD	EPA 410.4 / SM 5220D		x	
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x		x
Chlorinated Acids	EPA 555	x		x
Chlorine Dioxide	SM 4500-CLO2 D	x		x
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1		x	
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x		x
Cryptosporidium	EPA 1623	x		x
Cyanide, Amenable	SM 4500-CN G	x	x	
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method (2470)	x		x
Diquat and Paraquat	EPA 549.2	x		x
DBP/HAA	SM 6251B	x		x
Dissolved Oxygen	SM 4500-O G		x	x
DOC	SM 5310C	x		x
E. Coli	(MTF/EC+MUG)	x		x
E. Coli	CFR 141.21(f)(6)(i)	x		x
E. Coli	SM 9223		x	
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x		x
E. Coli (Enumeration)	SM 9223B	x		x
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x		x
EDTA and NTA	In House Method (2454)	x		x
Endothall	EPA 548.1	x		x
Endothall	In-house Method (2445)	x		x
Enterococci	SM 9230B	x	x	
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)		x	
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x		x
Fecal Coliform with Chlorine Present	SM 9221E		x	
Fecal Streptococci	SM 9230B	x	x	
Fluoride	SM 4500-F C	x	x	x
Giardia	EPA 1623	x		x
Glyphosate	EPA 547	x		x
Gross Alpha/Beta	EPA 900.0	x	x	x
Gross Alpha Coprecipitation	SM 7110 C	x	x	x
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method (2439)	x		x
Heterotrophic Bacteria	SM 9215 B	x		x
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x		x
Hexavalent Chromium	SM 3500-Cr B		x	
Hormones	EPA 539	x		x
Hydroxide as OH Calc.	SM 2330B	x		x
Kjeldahl Nitrogen	EPA 351.2		x	
Legionella	CDC Legionella	x		x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA (2360)	x		x
NDMA	EPA 521	x		x
NDMA	TQ In house method based on EPA 521 (2425)	x		x
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x		x
Ortho Phosphate	EPA 365.1	x	x	x
Ortho Phosphate	SM 4500P E			x
Ortho Phosphorous	SM 4500P E	x		
Oxyhalides Disinfection Byproducts	EPA 317.0	x		x
Perchlorate	EPA 331.0	x		x
Perchlorate (low and high)	EPA 314.0	x		x
Perfluorinated Alkyl Acids	EPA 537	x		x
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method, based on EPA 532 (2448)	x		x
Pseudomonas	IDEXX Pseudalert (2461)	x		x
Radium-226	GA Institute of Tech	x		x
Radium-228	GA Institute of Tech	x		x
Radon-222	SM 7500RN	x		x
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D		x	
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4		x	
Semi-VOC	EPA 525.2	x		x
Semi-VOC	EPA 625		x	x
Silica	SM 4500-Si D	x	x	
Silica	SM 4500-SiO2 C	x	x	
Sulfide	SM 4500-$S^{=}$ D		x	
Sulfite	SM 4500-SO^{3}B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x		x
Total Coliform (P/A)	SM 9221 A, B	x		x
Total Coliform (Enumeration)	SM 9221 A, B, C	x		x
Total Coliform / E. coli	Colisure SM 9223	x		x
Total Coliform	SM 9221B		x	
Total Coliform with Chlorine Present	SM 9221B		x	
Total Coliform / E.coli (P/A and Enumeration)	SM 9223	x		x
TOC	SM 5310C	x	x	x
TOX	SM 5320B		x	
Total Phenols	EPA 420.1		x	
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P E		x	
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x	x	
Uranium by ICP/MS	EPA 200.8	x		x
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x		x
VOC	EPA 624		x	x
VOC	EPA SW 846 8260	x		x
VOC	In House Method (2411)	x		x
Yeast and Mold	SM 9610	x		x

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Acknowledgement of Samples Received

Addr: **HDR**
2379 Gateway Oaks Dr #200
Sacramento, CA 95833
USA

Attn: Chuck Vertucci
Phone: 916-679-8768

Client ID: HDR-FOLSOM
Folder #: 759880
Project: PYRAMIDLAKE
Sample Group: Pyramid Lake

Project Manager: Kasey Raley
Phone:
PO #: PAY WITH CC

The following samples were received from you on **September 04, 2018** at **1737**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical, LLC.

Sample #	Sample ID	Sample Date
201809041013	SSWP BACT. 1 NEAR DAM	09/04/2018 1331
	@QUANT2000 18HR	
201809041014	SSWP BACT. 2 PIRU	09/04/2018 1340
	@QUANT2000 18HR	

Test Description

@QUANT2000 18HR -- Quantitray Coliforms 18 Hour

CHAIN OF CUSTODY RECORD

759880

eurofins | Eaton Analytical

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

Website: www.EatonAnalytical.com

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____ SAMPLES CHECKED AGAINST COC BY: _____

SAMPLES LOGGED IN BY: _____

SAMPLE TEMP RECEIVED AT: SAMPLES REC'D DAY OF COLLECTION? [X] (check for yes)

[ ] _____ (Other) IR Gun ID = _____ (Observation= _____ °C) (Corr.Factor _____ °C) (Final = _____ °C)

[✓] Monrovia IR Gun ID = C39 (Observation= 9.7 °C) (Corr.Factor -.2 °C) (Final = 9.5 °C)

Compliance Acceptance Criteria: (Chemistry: 4 ± 2 °C) (Microbiology: < 10°C)

TYPE OF ICE: Real ✓ Synthetic ✓ No Ice ____ CONDITION OF ICE: Frozen ____ Partially Frozen ✓ Thawed ____ N/A ____

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: _____

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME:	PROJECT CODE:
HDR	SSWP

EEA CLIENT CODE:	COC ID:	SAMPLE GROUP:

TAT requested: rush by adv notice only STD ___ 1 wk ___ 3 day ___ 2 day ___ 1 day ___

COMPLIANCE SAMPLES (check for yes) [ ] NON-COMPLIANCE SAMPLES (check for yes) [ ]

- Requires state forms [ ] REGULATION INVOLVED: _____

Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, NPDES, etc.)

SEE ATTACHED KIT ORDER FOR ANALYSES [ ] (check for yes), *OR*

List ALL ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	Quan + 2000												SAMPLER COMMENTS
9/4	1331	SSWP Bact. 1 Reardam					x												
9/4	1340	SSWP Bact. 2 Front					x												

RSW 09/04/18 1754

* **MATRIX TYPES:** **RSW** = Raw Surface Water **RGW** = Raw Ground Water **CFW** = Chlor(am)inated Finished Water **FW** = Other Finished Water **SEAW** = Sea Water **WW** = Waste Water **BW** = Bottled Water **SW** = Storm Water **SO** = Soil **SL** = Sludge **O** = Other - Please Identify

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:	Adam Lackyer	Adam Lackyer	HDR	9/4/18	0940
RELINQUISHED BY:		Aaron Newton	HDR	9/4/18	1737
RECEIVED BY:		Theodora Ley	CH	9/4/18	1737
RELINQUISHED BY:					
RECEIVED BY:					

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Laboratory Report: 759880

Report of Analysis by 18-Hour Colilert Test for Presence or Absence, Quantification of Total Coliform and E. Coli By Quantitray

HDR
2379 Gateway Oaks Dr #200
Sacramento, CA 95833
Attn: Chuck Vertucci

Project: PYRAMIDLAKE
Phone #: 916-679-8768
Date Received: 09/04/2018
Sampled By:
Sample Project Group: Pyramid Lake

Date/Time Sampled	Date/Time Prepped	Date/Time Analyzed	Lab#	Sample Description	# Positive Wells				MPN/100 mL		Presence/Absence (P/A)*	
					Total Coliform Small	Total Coliform Large	E. Coli Small	E. Coli Large	Total Coliform	E. Coli	Total Coliform	E. Coli
09/04/2018 13:31	09/04/2018 18:43	09/05/2018 14:01	201809041013	SSWP BACT. 1 NEAR DAM	49	48	ND	ND	>2419.6	<1	P	A
09/04/2018 13:40	09/04/2018 18:43	09/05/2018 14:01	201809041014	SSWP BACT. 2 PIRU	49	48	ND	ND	>2419.6	<1	P	A

*** Presence or absence of coliforms or growth is indicated as follows:**
P = Presence; A = Absence

Notification Required YES

Approved by _____

Date of Issue: 09/06/2018

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton

FERC Project No. 2426
South SWP Hydropower
Water Quality and Temperature Study

September 7, 2018

Consistent with the Response to Comments on ISR and ISR Meeting Summary dated August 8, 2018, the licensees are providing results from the agreed upon E.coli sampling at Pyramid Lake. The following laboratory report provides results from the September 11, 2018 water quality sampling event conducted at Pyramid Lake. These results are not included in the April 30, 2018 Field Results and Data Summary for the SSWP Water Quality and Temperature Study posted to the Department of Water Resources South SWP Hydropower Relicensing Website. Once fieldwork is complete, and all data have been evaluated, the Field Results and Data Summary will be updated.

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750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

ilac-MRA

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY AT-1807

Laboratory Report

for

HDR
2379 Gateway Oaks Dr #200
Sacramento, CA 95833
Attention: Chuck Vertucci

NELAP RECOGNIZED TNI ACCREDITATION BODY

Utah ELCP CA00006

Date of Issue
09/12/2018

Kasey Raley
EUROFINS EATON ANALYTICAL, LLC

Report: 761436
Project: PYRAMIDLAKE
Group: Pyramid Lake

H1NJ: Kasey Raley

Project Manager

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.
* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.
* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.
* Test results relate only to the sample(s) tested.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
Arizona	AZ0778	**Montana**	Cert 0035
Arkansas	Certified	**Nebraska**	Certified
California-Monrovia-ELAP	2813	**Nevada**	CA000062018
California-Colton- ELAP	2812	**New Hampshire ***	2959
Colorado	Certified	**New Jersey ***	CA 008
Connecticut	PH-0107	**New Mexico**	Certified
Delaware	CA 006	**New York ***	11320
Florida *	E871024	**North Carolina**	06701
Georgia	947	**North Dakota**	R-009
Guam	18-005R	**Oregon ***	CA200003-005
Hawaii	Certified	**Pennsylvania ***	68-565
Idaho	Certified	**Puerto Rico**	Certified
Illinois *	200033	**Rhode Island**	LAO00326
Indiana	C-CA-01	**South Carolina**	87016
Iowa - Asbestos	413	**South Dakota**	Certified
Kansas *	E-10268	**Tennessee**	TN02839
Kentucky	90107	**Texas ***	T104704230-17-13
Louisiana *	LA180000	**Utah (Primary AB) ***	CA00006
Maine	CA0006	**Vermont**	VT0114
Maryland	224	**Virginia ***	460260
Commonwealth of Northern Marianas Is.	MP0004	**Washington**	C838
Massachusetts	M-CA006	**EPA Region 5**	Certified
Michigan	9906	**Los Angeles County Sanitation Districts**	10264

* NELAP/TNI Recognized Accreditation Bodies

Eurofins Eaton Analytical, LLC
750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629
T | 626-386-1100
F | 866-988-3757
www.EurofinsUS.com/Eaton

ISO 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ANAB.

Refer to Certificate and scope of accreditation (AT 1807) found at: http://www.eatonanalytical.com

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environ-mental (Drinking Water)	Environ-mental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
1,4-Dioxane	EPA 522	x		x
2,3,7,8-TCDD	Modified EPA 1613B	x		x
Acrylamide	In House Method (2440)	x		x
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x		x
Asbestos	EPA 100.2	x	x	
Bicarbonate Alkalinity as HCO3	SM 2320B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method (2447)	x		x
Carbamates	EPA 531.2	x		x
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x		x
COD	EPA 410.4 / SM 5220D		x	
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x		x
Chlorinated Acids	EPA 555	x		x
Chlorine Dioxide	SM 4500-CLO2 D	x		x
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1		x	
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x		x
Cryptosporidium	EPA 1623	x		x
Cyanide, Amenable	SM 4500-CN G	x	x	
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method (2470)	x		x
Diquat and Paraquat	EPA 549.2	x		x
DBP/HAA	SM 6251B	x		x
Dissolved Oxygen	SM 4500-O G		x	x
DOC	SM 5310C	x		x
E. Coli	(MTF/EC+MUG)	x		x
E. Coli	CFR 141.21(f)(6)(i)	x		x
E. Coli	SM 9223		x	
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x		x
E. Coli (Enumeration)	SM 9223B	x		x
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x		x
EDTA and NTA	In House Method (2454)	x		x
Endothall	EPA 548.1	x		x
Endothall	In-house Method (2445)	x		x
Enterococci	SM 9230B	x	x	
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)		x	
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x		x
Fecal Coliform with Chlorine Present	SM 9221E		x	
Fecal Streptococci	SM 9230B	x	x	
Fluoride	SM 4500-F C	x	x	x
Giardia	EPA 1623	x		x
Glyphosate	EPA 547	x		x
Gross Alpha/Beta	EPA 900.0	x	x	x
Gross Alpha Coprecipitation	SM 7110 C	x	x	x
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method (2439)	x		x
Heterotrophic Bacteria	SM 9215 B	x		x
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x		x
Hexavalent Chromium	SM 3500-Cr B		x	
Hormones	EPA 539	x		x
Hydroxide as OH Calc.	SM 2330B	x		x
Kjeldahl Nitrogen	EPA 351.2		x	
Legionella	CDC Legionella	x		x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA (2360)	x		x
NDMA	EPA 521	x		x
NDMA	TQ In house method based on EPA 521 (2425)	x		x
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x		x
Ortho Phosphate	EPA 365.1	x	x	x
Ortho Phosphate	SM 4500P E			x
Ortho Phosphorous	SM 4500P E	x		
Oxyhalides Disinfection Byproducts	EPA 317.0	x		x
Perchlorate	EPA 331.0	x		x
Perchlorate (low and high)	EPA 314.0	x		x
Perfluorinated Alkyl Acids	EPA 537	x		x
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method, based on EPA 532 (2448)	x		x
Pseudomonas	IDEXX Pseudalert (2461)	x		x
Radium-226	GA Institute of Tech	x		x
Radium-228	GA Institute of Tech	x		x
Radon-222	SM 7500RN	x		x
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D		x	
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4		x	
Semi-VOC	EPA 525.2	x		x
Semi-VOC	EPA 625		x	x
Silica	SM 4500-Si D	x	x	
Silica	SM 4500-SiO2 C	x	x	
Sulfide	SM 4500-$S^{=}$ D		x	
Sulfite	SM 4500-SO^{3}B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x		x
Total Coliform (P/A)	SM 9221 A, B	x		x
Total Coliform (Enumeration)	SM 9221 A, B, C	x		x
Total Coliform / E. coli	Colisure SM 9223	x		x
Total Coliform	SM 9221B		x	
Total Coliform with Chlorine Present	SM 9221B		x	
Total Coliform / E.coli (P/A and Enumeration)	SM 9223	x		x
TOC	SM 5310C	x	x	x
TOX	SM 5320B		x	
Total Phenols	EPA 420.1		x	
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P E		x	
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x	x	
Uranium by ICP/MS	EPA 200.8	x		x
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x		x
VOC	EPA 624		x	x
VOC	EPA SW 846 8260	x		x
VOC	In House Method (2411)	x		x
Yeast and Mold	SM 9610	x		x

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Acknowledgement of Samples Received

Addr: **HDR**
2379 Gateway Oaks Dr #200
Sacramento, CA 95833
USA

Attn: Chuck Vertucci
Phone: 916-679-8768

Client ID: HDR-FOLSOM
Folder #: 761436
Project: PYRAMIDLAKE
Sample Group: Pyramid Lake

Project Manager: Kasey Raley
Phone:
PO #: PAY WITH CC

The following samples were received from you on **September 11, 2018** at **17:40**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical, LLC.

Sample #	Sample ID	Sample Date
201809120301	SSWP Bact. 1 Near Dam	09/11/2018 1252
	@QUANT2000 18HR	
201809120302	SSWP Bact. 2 Piru	09/11/2018 1337
	@QUANT2000 18HR	

Test Description

@QUANT2000 18HR -- Quantitray Coliforms 18 Hour

CHAIN OF CUSTODY RECORD

76143 6

eurofins | Eaton Analytical

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

Website: www.EatonAnalytical.com

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____ SAMPLES CHECKED AGAINST COC BY: _____

SAMPLES LOGGED IN BY: JB

SAMPLE TEMP RECEIVED AT: SAMPLES REC'D DAY OF COLLECTION? [X] (check for yes)

[ ] _____ (Other) IR Gun ID = _____ (Observation= _____ °C) (Corr.Factor _____ °C) (Final = _____ °C)

[X] Monrovia IR Gun ID = 649 (Observation= 4.6 °C) (Corr.Factor -0.3 °C) (Final = 4.3 °C)

Compliance Acceptance Criteria: (Chemistry: 4 ± 2 °C) (Microbiology: < 10°C)

TYPE OF ICE: Real ✓ Synthetic ____ No Ice ____ **CONDITION OF ICE:** Frozen X Partially Frozen ____ Thawed ____ N/A ____

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: _____

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME:	PROJECT CODE:	COMPLIANCE SAMPLES (check for yes)	NON-COMPLIANCE SAMPLES (check for yes)
HDR		- Requires state forms	REGULATION INVOLVED:
		Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION	(eg. SDWA, NPDES, etc.)

EEA CLIENT CODE:	COC ID:	SAMPLE GROUP:	*SEE ATTACHED KIT ORDER FOR ANALYSES* [ ] (check for yes), *OR*
			List ALL ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)

TAT requested: rush by adv notice only STD ___ 1 wk ___ 3 day ___ 2 day ___ 1 day ___

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	Quant 2go												SAMPLER COMMENTS
9/11	1252	SSWP Bact. 1 near dam					X												
9/11	1337	SSW? Bact. 2 Pier					X												RM 09/11/18 1743

* **MATRIX TYPES:** **RSW** = Raw Surface Water **CFW** = Chlor(am)inated Finished Water **SEAW** = Sea Water **BW** = Bottled Water **SO** = Soil **O** = Other - Please Identify
RGW = Raw Ground Water **FW** = Other Finished Water **WW** = Waste Water **SW** = Storm Water **SL** = Sludge

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:	Adam L	Adam Lockyer	HDR	9/11	1252
RELINQUISHED BY:	Adam L	Adam Lockyer	HDR	9/11	
RECEIVED BY:	Nate Tibbitts	Nate Tibbitts	EEA	9-11-18	1740
RELINQUISHED BY:					
RECEIVED BY:					

eurofins | Eaton Analytical

Laboratory Report: 761436

Report of Analysis by 18-Hour Colilert Test for Presence or Absence, Quantification of Total Coliform and E. Coli By Quantitray

HDR
2379 Gateway Oaks Dr #200
Sacramento, CA 95833
Attn: Chuck Vertucci

Project: PYRAMIDLAKE
Phone #: 916-679-8768
Date Received: 09/11/2018
Sampled By:
Sample Project Group: Pyramid Lake

Date/Time Sampled	Date/Time Prepped	Date/Time Analyzed	Lab#	Sample Description	# Positive Wells				MPN/100 mL		Presence/Absence (P/A)*	
					Total Coliform Small	Total Coliform Large	E. Coli Small	E. Coli Large	Total Coliform	E. Coli	Total Coliform	E. Coli
09/11/2018 12:52	09/11/2018 18:04	09/12/2018 12:14	201809120301	SSWP Bact. 1 Near Dam	49	42	ND	ND	1300	<1	P	A
09/11/2018 13:37	09/11/2018 18:04	09/12/2018 12:14	201809120302	SSWP Bact. 2 Piru	49	41	ND	ND	1200	<1	P	A

*** Presence or absence of coliforms or growth is indicated as follows:**
P = Presence; A = Absence

Notification Required YES

Approved by _____

Date of Issue: 09/12/2018

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