



INORGANIC ANALYTICAL REPORT

Client: PacifiCorp - Huntington Plant
Project: Huntington Sitewide
Lab Sample ID: 1605144-004
Client Sample ID: UPL-13
Collection Date: 5/3/2016 1300h
Received Date: 5/5/2016 1615h

Contact: Brad Giles

Analytical Results

DISSOLVED METALS

3440 South 700 West
 Salt Lake City, UT 84119

 Phone: (801) 263-8686
 Toll Free: (888) 263-8686
 Fax: (801) 263-8687
 e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/10/2016 1314h	5/11/2016 1444h	SW6020A	0.00200	0.0116	
Boron	mg/L	5/10/2016 1314h	5/17/2016 1422h	SW6010C	5.00	12.1	
Cadmium	mg/L	5/10/2016 1314h	5/11/2016 1444h	SW6020A	0.000500	< 0.000500	
Calcium	mg/L	5/10/2016 1314h	5/17/2016 1320h	SW6010C	100	549	
Chromium	mg/L	5/10/2016 1314h	5/11/2016 1444h	SW6020A	0.00200	0.0133	
Iron	mg/L	5/10/2016 1314h	5/17/2016 1558h	SW6010C	0.100	< 0.100	
Magnesium	mg/L	5/10/2016 1314h	5/17/2016 1320h	SW6010C	100	448	
Manganese	mg/L	5/10/2016 1314h	5/11/2016 1444h	SW6020A	0.00200	0.0284	
Mercury	mg/L	5/10/2016 1720h	5/11/2016 925h	SW7470A	0.000150	< 0.000150	
Nickel	mg/L	5/10/2016 1314h	5/11/2016 1444h	SW6020A	0.00200	0.0206	
Potassium	mg/L	5/10/2016 1314h	5/17/2016 1422h	SW6010C	10.0	37.8	
Selenium	mg/L	5/10/2016 1314h	5/11/2016 1444h	SW6020A	0.00200	0.0306	
Sodium	mg/L	5/10/2016 1314h	5/17/2016 1320h	SW6010C	100	369	

Analysis performed on a portion of the sample filtered at the laboratory upon receipt. The sample was received after the filtration holding time had expired for dissolved analysis.



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TOTAL METALS

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Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/10/2016 1314h	5/11/2016 1631h	SW6020A	0.00200	0.0121	^
Barium	mg/L	5/10/2016 1314h	5/11/2016 1631h	SW6020A	0.00200	0.287	
Beryllium	mg/L	5/10/2016 1314h	5/11/2016 1631h	SW6020A	0.00200	< 0.00200	
Cadmium	mg/L	5/10/2016 1314h	5/11/2016 1631h	SW6020A	0.000500	< 0.000500	
Calcium	mg/L	5/10/2016 1314h	5/27/2016 1036h	SW6010C	100	528	^
Chromium	mg/L	5/10/2016 1314h	5/11/2016 1631h	SW6020A	0.00200	0.0138	
Copper	mg/L	5/10/2016 1314h	5/11/2016 1631h	SW6020A	0.00200	0.0395	
Lead	mg/L	5/10/2016 1314h	5/11/2016 1631h	SW6020A	0.00200	< 0.00200	
Magnesium	mg/L	5/10/2016 1314h	5/27/2016 1036h	SW6010C	100	434	^
Mercury	mg/L	5/27/2016 1307h	5/31/2016 922h	SW7470A	0.000150	< 0.000150	^
Molybdenum	mg/L	5/10/2016 1314h	5/11/2016 1631h	SW6020A	0.00200	0.0284	
Nickel	mg/L	5/10/2016 1314h	5/11/2016 1631h	SW6020A	0.00200	0.0197	^
Potassium	mg/L	5/10/2016 1314h	5/27/2016 1046h	SW6010C	10.0	39.9	^
Selenium	mg/L	5/10/2016 1314h	5/11/2016 1631h	SW6020A	0.00200	0.0301	^
Sodium	mg/L	5/10/2016 1314h	5/27/2016 1036h	SW6010C	100	344	^
Uranium	mg/L	5/10/2016 1314h	5/11/2016 1631h	SW6020A	0.00200	0.00597	
Vanadium	mg/L	5/10/2016 1314h	5/17/2016 1515h	SW6010C	0.00500	0.0197	
Zinc	mg/L	5/10/2016 1314h	5/11/2016 1631h	SW6020A	0.00500	0.0240	

^ - Reissue of a previously generated report. Information has been added, updated, or revised. Information herein supersedes that of the previously issued reports.



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Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Alkalinity (as CaCO ₃)	mg/L		5/6/2016 707h	SM2320B	10.0	141	
Bicarbonate (as CaCO ₃)	mg/L		5/6/2016 707h	SM2320B	10.0	34.4	
Carbonate (as CaCO ₃)	mg/L		5/6/2016 707h	SM2320B	10.0	107	
Chloride	mg/L		5/12/2016 2232h	E300.0	10.0	619	
Conductivity	µmhos/cm		5/6/2016 600h	SM2510B	2.00	6,420	
Fluoride	mg/L		5/13/2016 751h	E300.0	0.100	5.91	
Hardness (as CaCO ₃)	mg/L		5/17/2016	SM2340B	10.0	3,220	
Nitrate/Nitrite (as N)	mg/L		5/18/2016 1344h	E353.2	0.100	12.1	
pH @ 25° C	pH Units		5/5/2016 1829h	SM4500-H+B	1.00	7.41	H
Sulfate	mg/L		5/12/2016 1728h	E300.0	750	2,980	
Total Dissolved Solids	mg/L		5/6/2016 1346h	SM2540C	20.0	5,020	

H - Sample was received outside of the holding time.

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

American West Analytical Labs

Project ID: 1605144
 Sample ID: UP&L 13
 Locator:

ACZ Sample ID: **L30344-01**
 Date Sampled: 05/03/16 13:00
 Date Received: 05/10/16
 Sample Matrix: Ground Water

Radium 226
 M903.1

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226	05/23/16 0:15		0.38	0.17	0.36	pCi/L	*	mns

Radium 228
 M904.0

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228	05/25/16 10:14		1.8	0.84	0.79	pCi/L		djc

Arizona license number: AZ0102

American West Analytical Labs

Project ID: 1605144
Sample ID: UP&L 13

ACZ Sample ID: **L30344-01**
Date Sampled: 05/03/16 13:00
Date Received: 05/10/16
Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Hot Plate Digestion	M200.2 ICP-MS				*				05/12/16 13:14	scp

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Tellurium, total	M200.8 ICP-MS	1		U	*	mg/L	0.001	0.005	05/13/16 15:01	enb
Thorium, total	M200.8 ICP-MS	1		U	*	mg/L	0.001	0.005	05/13/16 15:01	enb

Arizona license number: AZ0102