



Date of Report: 05/22/2023

Bryan J. Rosales

Shafter-Wasco Irrigation

P.O. Box 1168
Wasco, CA 93280

Client Project: [none]
BCL Project: Irrigation Water
BCL Work Order: 2307929
Invoice ID: B476490

Enclosed are the results of analyses for samples received by the laboratory on 4/20/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Kaylee Mayall
Client Services Rep

Stuart Buttram
Operations Manager

Kern County Environmental Health Division 2700 M Street, Ste 300 Bakersfield, CA 93312
Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Table of Contents

Sample Information

Chain of Custody and Cooler Receipt form.....	3
Laboratory / Client Sample Cross Reference.....	5

Sample Results

2307929-01 - 5.8-7 (North)	
Water Analysis (General Chemistry).....	6
Metals Analysis.....	7
2307929-02 - 1.1-6 (South)	
Water Analysis (General Chemistry).....	8
Metals Analysis.....	10

Quality Control Reports

Water Analysis (General Chemistry)	
Method Blank Analysis.....	11
Laboratory Control Sample.....	13
Precision and Accuracy.....	14
Metals Analysis	
Method Blank Analysis.....	16
Laboratory Control Sample.....	17
Precision and Accuracy.....	18

Notes

Notes and Definitions.....	19
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Chain of Custody

2307929

4100 Atlas Ct. - Bakersfield, CA 93308 - 661.327.4911 - Fax: 661.327.1918 - www.pacelabs.com



ANALYTICAL SERVICES

Client: Shafter-Wasco Irrigation District
 Attn: Bryan J. Rosales
 Street Address: 16294 Highway 43
 City, State, Zip: Wasco, CA 93280
 Phone: (661) 758-5153 Fax:
 Email: bjerosales@swid.org
 Work Order #: 23-07929

Analysis Requested

Comments:
 NEED RESULTS FRI 10 DAY
 MAY 5TH

Sample #	Description	Date Sampled	Time Sampled	Irrigation Water	Soil	Sludge	Drinking Water	Ground Water	Waste Water	Other	Notes
-1	5.8-7 (North)	04/20/23	9:42	X						X	
-2	1.1-6 (South)	04/20/23	10:00	X						X	
											NO HOLDING TIME
											NO OP SS
											NO MBAS COT
											CHK BY: DISTRIBUTION
											SUB OUT

EDF Required Geotracker Yes No **Global ID**

1. Relinquished By Bryan J. Rosales **Date** 04/20/23 **Time** 10:23
2. Relinquished By *Dmaggio* **Date** 4-20-23 **Time** 10:25
3. Relinquished By **Date** **Time**

System # (Needed for CLP)
 CUSKey Well Star

Billing Same as above
 Client: Shafter-Wasco Irrigation District
 Address: P.O. Box 1168
 City: Wasco State CA Zip 93280
 Attn:
 P.O. #:

Pace Analytical Bakersfield does not accept samples containing radioactive material above background levels. Samples containing radioactive material must be disclosed prior to receipt. Any samples suspected of containing radioactive material above background levels will not be accepted and will be returned to client.

REV 12/2021

PACE ANALYTICAL		COOLER RECEIPT FORM		Page	Of					
Submission #: <u>23-07929</u>										
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input checked="" type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input checked="" type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S					
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: <u>Samples taken close to drop off time.</u>										
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes: <input type="checkbox"/> No <input type="checkbox"/>										
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>										
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>0.97</u> Container: <u>NA</u> Thermometer ID: <u>279</u> Temperature: (A) <u>21.3</u> °C / (C) <u>21.1</u> °C		Date/Time: <u>4-20-23</u> Analyst Init: <u>JMH-1025</u>						
SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES	A	A								
4oz / Box / 16oz PE UNPRES										
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/34081A										
QT EPA 515.1/5151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
3oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
3oz / 16oz / 32oz AMBER										
3oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
 Sample Numbering Completed By: MAP Date/Time: 4/20/23 12:23 Rev 23 06/28/22
 A = Actual / C = Corrected (B:\P\F\Doc\Word\PerfectLAB_DOC\FORMS\ChainCust 23)



Shafter-Wasco Irrigation
 P.O. Box 1168
 Wasco, CA 93280

Reported: 05/22/2023 13:35
 Project: Irrigation Water
 Project Number: [none]
 Project Manager: Bryan J. Rosales

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2307929-01	COC Number:	---	Receive Date:	04/20/2023 10:25
	Project Number:	---	Sampling Date:	04/20/2023 09:40
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	5.8-7 (North)	Lab Matrix:	Water
	Sampled By:	Bryan J. Rosales	Sample Type:	Irrigation
	<hr/>			
2307929-02	COC Number:	---	Receive Date:	04/20/2023 10:25
	Project Number:	---	Sampling Date:	04/20/2023 10:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	1.1-6 (South)	Lab Matrix:	Water
	Sampled By:	Bryan J. Rosales	Sample Type:	Irrigation
	<hr/>			

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Shafter-Wasco Irrigation
P.O. Box 1168
Wasco, CA 93280

Reported: 05/22/2023 13:35
Project: Irrigation Water
Project Number: [none]
Project Manager: Bryan J. Rosales

Water Analysis (General Chemistry)

BCL Sample ID: 2307929-01	Client Sample Name: 5.8-7 (North), 4/20/2023 9:40:00AM, Bryan J. Rosales
---------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Dissolved Calcium	62	mg/L	0.10	0.016	EPA-6010B	ND		1
Dissolved Magnesium	11	mg/L	0.050	0.022	EPA-6010B	ND		1
Dissolved Sodium	43	mg/L	1.0	0.051	EPA-6010B	ND		1
Dissolved Potassium	7.7	mg/L	1.0	0.10	EPA-6010B	ND		1
Bicarbonate	35	mg/L	5.0	5.0	EPA-310.1	ND		2
Carbonate	ND	mg/L	2.5	2.5	EPA-310.1	ND		2
Hydroxide	ND	mg/L	1.4	1.4	EPA-310.1	ND		2
Chloride	2.3	mg/L	0.50	0.13	EPA-300.0	ND		3
Nitrate as N	0.080	mg/L	0.10	0.024	EPA-300.0	ND	J	3
Nitrate as NO3	0.35	mg/L	0.44	0.11	Calc	ND	J	4
Sulfate	2.0	mg/L	1.0	0.14	EPA-300.0	ND		3
Dissolved Total Cations	6.1	meq/L	0.10	0.10	Calc	ND		4
Total Anions	0.68	meq/L	0.10	0.10	Calc	ND		4
Adjusted Sodium Adsorption Ratio (SAR-adj)	1.6	NA	0.010	0.010	Calc	ND		4
Extractable Sodium Percentage (ESP)	0.68	NA	0.010	0.010	Calc	ND		4
Gypsum Requirement	ND	# gyp/hr/10 0 gal/min	0.010	0.010	Calc	ND		4
Dissolved Hardness as CaCO3	200	mg/L	0.50	0.10	Calc	ND		4
pHc	8.2	NA	0.010	0.010	Calc	ND		4
Sodium Adsorption Ratio (SAR)	1.3	NA	0.10	0.10	Calc	ND		4
TDS (by summation)	150	mg/L	10	10	Calc	ND		4
pH	7.67	pH Units	0.05	0.05	EPA-150.1		S05	5
Electrical Conductivity @ 25 C	63.9	umhos/cm	1.00	1.00	EPA-120.1			6

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-6010B	04/26/23 13:18	04/26/23	16:02	JRG	PE-OP4	1	B164951	6010B/No Digestion
2	EPA-310.1	04/24/23 07:00	04/24/23	20:26	RML	MET-1	1	B163947	No Prep
3	EPA-300.0	04/21/23 21:30	04/21/23	21:37	RC1	IC1	1	B164769	No Prep
4	Calc	04/20/23 12:38	05/12/23	15:57	SPB	Calc	1	B164570	Calc
5	EPA-150.1	04/24/23 07:00	04/24/23	20:26	RML	MET-1	1	B163947	No Prep
6	EPA-120.1	04/24/23 07:00	04/24/23	20:26	RML	MET-1	1	B163947	No Prep

DCN = Data Continuation Number

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Reported: 05/22/2023 13:35
Project: Irrigation Water
Project Number: [none]
Project Manager: Bryan J. Rosales

Metals Analysis

BCL Sample ID: 2307929-01	Client Sample Name: 5.8-7 (North), 4/20/2023 9:40:00AM, Bryan J. Rosales
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Dissolved Boron	0.044	mg/L	0.10	0.010	EPA-6010B	0.025	J	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	04/26/23 13:18	04/26/23 16:02	JRG	PE-OP4	1	B164951	EPA 3005A

DCN = Data Continuation Number

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Wasco, CA 93280

Reported: 05/22/2023 13:35
Project: Irrigation Water
Project Number: [none]
Project Manager: Bryan J. Rosales

Water Analysis (General Chemistry)

BCL Sample ID:	2307929-02	Client Sample Name:	1.1-6 (South), 4/20/2023 10:00:00AM, Bryan J. Rosales					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Dissolved Calcium	9.9	mg/L	0.10	0.016	EPA-6010B	ND		1
Dissolved Magnesium	2.0	mg/L	0.050	0.022	EPA-6010B	ND		1
Dissolved Sodium	7.3	mg/L	1.0	0.051	EPA-6010B	ND		1
Dissolved Potassium	1.9	mg/L	1.0	0.10	EPA-6010B	ND		1
Bicarbonate	35	mg/L	5.0	5.0	EPA-310.1	ND		2
Carbonate	ND	mg/L	2.5	2.5	EPA-310.1	ND		2
Hydroxide	ND	mg/L	1.4	1.4	EPA-310.1	ND		2
Chloride	2.3	mg/L	0.50	0.13	EPA-300.0	ND		3
Nitrate as N	0.14	mg/L	0.10	0.024	EPA-300.0	ND		3
Nitrate as NO3	0.64	mg/L	0.44	0.11	Calc	ND		4
Sulfate	2.7	mg/L	1.0	0.14	EPA-300.0	ND		3
Dissolved Total Cations	1.0	meq/L	0.10	0.10	Calc	ND		5
Total Anions	0.70	meq/L	0.10	0.10	Calc	ND		5
Adjusted Sodium Adsorption Ratio (SAR-adj)	0.30	NA	0.010	0.010	Calc	ND		5
Extractable Sodium Percentage (ESP)	ND	NA	0.010	0.010	Calc	ND		5
Gypsum Requirement	ND	# gyp/hr/10 0 gal/min	0.010	0.010	Calc	ND		5
Dissolved Hardness as CaCO3	33	mg/L	0.50	0.10	Calc	ND		5
pHc	8.9	NA	0.010	0.010	Calc	ND		5
Sodium Adsorption Ratio (SAR)	0.55	NA	0.10	0.10	Calc	ND		5
TDS (by summation)	44	mg/L	10	10	Calc	ND		5
pH	7.96	pH Units	0.05	0.05	EPA-150.1		S05	6
Electrical Conductivity @ 25 C	73.2	umhos/cm	1.00	1.00	EPA-120.1			7

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Reported: 05/22/2023 13:35
 Project: Irrigation Water
 Project Number: [none]
 Project Manager: Bryan J. Rosales

Water Analysis (General Chemistry)

BCL Sample ID: 2307929-02	Client Sample Name: 1.1-6 (South), 4/20/2023 10:00:00AM, Bryan J. Rosales
---------------------------	---

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-6010B	04/26/23	13:18	04/26/23	16:04	JRG	PE-OP4	1	B164951	6010B/No Digestion
2	EPA-310.1	04/24/23	07:00	04/24/23	20:33	RML	MET-1	1	B163947	No Prep
3	EPA-300.0	04/21/23	21:00	04/21/23	21:59	RC1	IC1	1	B164704	No Prep
4	Calc	04/20/23	12:38	05/12/23	15:57	SPB	Calc	1	B164570	Calc
5	Calc	04/20/23	12:38	05/11/23	15:00	SPB	Calc	1	B164570	Calc
6	EPA-150.1	04/24/23	07:00	04/24/23	20:33	RML	MET-1	1	B163947	No Prep
7	EPA-120.1	04/24/23	07:00	04/24/23	20:33	RML	MET-1	1	B163947	No Prep

DCN = Data Continuation Number

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Reported: 05/22/2023 13:35
Project: Irrigation Water
Project Number: [none]
Project Manager: Bryan J. Rosales

Metals Analysis

BCL Sample ID: 2307929-02	Client Sample Name: 1.1-6 (South), 4/20/2023 10:00:00AM, Bryan J. Rosales
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Dissolved Boron	0.042	mg/L	0.10	0.010	EPA-6010B	0.025	J	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	04/26/23 13:18	04/26/23 16:04	JRG	PE-OP4	1	B164951	EPA 3005A

DCN = Data Continuation Number

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Reported: 05/22/2023 13:35
 Project: Irrigation Water
 Project Number: [none]
 Project Manager: Bryan J. Rosales

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B163947							
Bicarbonate	B163947-BLK1	ND	mg/L	5.0	5.0		1
Carbonate	B163947-BLK1	ND	mg/L	2.5	2.5		1
Hydroxide	B163947-BLK1	ND	mg/L	1.4	1.4		1
QC Batch ID: B164570							
Nitrate as NO3	B164570-BLK1	ND	mg/L	0.44	0.11		2
Dissolved Total Cations	B164570-BLK1	ND	meq/L	0.10	0.10		3
Total Anions	B164570-BLK1	ND	meq/L	0.10	0.10		3
Adjusted Sodium Adsorption Ratio (SAR-adj)	B164570-BLK1	ND	NA	0.010	0.010		3
Extractable Sodium Percentage (ESP)	B164570-BLK1	ND	NA	0.010	0.010		3
Gypsum Requirement	B164570-BLK1	ND	‡ gyp/hr/100 gal/mir	0.010	0.010		3
Dissolved Hardness as CaCO3	B164570-BLK1	ND	mg/L	0.50	0.10		3
pHc	B164570-BLK1	ND	NA	0.010	0.010		3
Sodium Adsorption Ratio (SAR)	B164570-BLK1	ND	NA	0.10	0.10		3
TDS (by summation)	B164570-BLK1	ND	mg/L	10	10		3
QC Batch ID: B164704							
Chloride	B164704-BLK1	ND	mg/L	0.50	0.13		4
Nitrate as N	B164704-BLK1	ND	mg/L	0.10	0.024		4
Sulfate	B164704-BLK1	ND	mg/L	1.0	0.14		4
QC Batch ID: B164769							
Chloride	B164769-BLK1	ND	mg/L	0.50	0.13		5
Nitrate as N	B164769-BLK1	ND	mg/L	0.10	0.024		5
Sulfate	B164769-BLK1	ND	mg/L	1.0	0.14		5
QC Batch ID: B164951							
Dissolved Calcium	B164951-BLK1	ND	mg/L	0.10	0.016		6
Dissolved Magnesium	B164951-BLK1	ND	mg/L	0.050	0.022		6
Dissolved Sodium	B164951-BLK1	ND	mg/L	1.0	0.051		6
Dissolved Potassium	B164951-BLK1	ND	mg/L	1.0	0.10		6

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Reported: 05/22/2023 13:35
Project: Irrigation Water
Project Number: [none]
Project Manager: Bryan J. Rosales

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B163947-BLK1	PB	EPA-310.1	04/24/23	04/24/23 19:02	RML	MET-1	1
2	B164570-BLK1	PB	Calc	04/20/23	05/01/23 15:20	AMM	Calc	1
3	B164570-BLK1	PB	Calc	04/20/23	05/11/23 15:00	SPB	Calc	1
4	B164704-BLK1	PB	EPA-300.0	04/21/23	04/22/23 03:20	RC1	IC1	1
5	B164769-BLK1	PB	EPA-300.0	04/21/23	04/22/23 09:57	RC1	IC1	1
6	B164951-BLK1	PB	EPA-6010B	04/26/23	04/26/23 15:20	JRG	PE-OP4	1

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Shafter-Wasco Irrigation
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Wasco, CA 93280

Reported: 05/22/2023 13:35
Project: Irrigation Water
Project Number: [none]
Project Manager: Bryan J. Rosales

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B163947											
pH	B163947-BS2	LCS	7.0400	7.0000	pH Units	101		95 - 105			1
Electrical Conductivity @ 25 C	B163947-BS1	LCS	307.40	303.00	umhos/cm	101		90 - 110			2
QC Batch ID: B164704											
Chloride	B164704-BS1	LCS	50.756	50.000	mg/L	102		90 - 110			3
Nitrate as N	B164704-BS1	LCS	5.1490	5.0000	mg/L	103		90 - 110			3
Sulfate	B164704-BS1	LCS	98.537	100.00	mg/L	98.5		90 - 110			3
QC Batch ID: B164769											
Chloride	B164769-BS1	LCS	51.859	50.000	mg/L	104		90 - 110			4
Nitrate as N	B164769-BS1	LCS	5.2020	5.0000	mg/L	104		90 - 110			4
Sulfate	B164769-BS1	LCS	100.91	100.00	mg/L	101		90 - 110			4
QC Batch ID: B164951											
Dissolved Calcium	B164951-BS1	LCS	9.7250	10.000	mg/L	97.3		80 - 120			5
Dissolved Magnesium	B164951-BS1	LCS	9.0090	10.000	mg/L	90.1		80 - 120			5
Dissolved Sodium	B164951-BS1	LCS	9.3860	10.000	mg/L	93.9		80 - 120			5
Dissolved Potassium	B164951-BS1	LCS	9.2666	10.000	mg/L	92.7		80 - 120			5

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B163947-BS2	LCS	EPA-150.1	04/24/23	04/24/23	18:50	RML	MET-1	1
2	B163947-BS1	LCS	EPA-120.1	04/24/23	04/24/23	18:49	RML	MET-1	1
3	B164704-BS1	LCS	EPA-300.0	04/21/23	04/22/23	03:42	RC1	IC1	1
4	B164769-BS1	LCS	EPA-300.0	04/21/23	04/22/23	09:36	RC1	IC1	1
5	B164951-BS1	LCS	EPA-6010B	04/26/23	04/26/23	15:21	JRG	PE-OP4	1

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Shafter-Wasco Irrigation
 P.O. Box 1168
 Wasco, CA 93280

Reported: 05/22/2023 13:35
 Project: Irrigation Water
 Project Number: [none]
 Project Manager: Bryan J. Rosales

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab	R#
									RPD	Percent Recovery		
QC Batch ID: B163947		Used client sample: N										
Bicarbonate	DUP	2307871-07	422.55	427.37		mg/L	1.1		10			1
Carbonate	DUP	2307871-07	ND	ND		mg/L			10			1
Hydroxide	DUP	2307871-07	ND	ND		mg/L			10			1
pH	DUP	2307871-07	7.9000	7.8700		pH Units	0.4		20			2
Electrical Conductivity @ 25 C	DUP	2307871-07	4216.4	4222.0		umhos/cm	0.1		10			3
QC Batch ID: B164704		Used client sample: N										
Chloride	DUP	2307931-01	55.606	56.012		mg/L	0.7		10			4
	MS	2307931-01	55.606	110.99	50.505	mg/L		110		80 - 120		5
	MSD	2307931-01	55.606	111.32	50.505	mg/L	0.3	110	10	80 - 120		6
Nitrate as N	DUP	2307931-01	ND	ND		mg/L			10			4
	MS	2307931-01	ND	5.2939	5.0505	mg/L		105		80 - 120		5
	MSD	2307931-01	ND	5.2657	5.0505	mg/L	0.5	104	10	80 - 120		6
Sulfate	DUP	2307931-01	44.646	44.579		mg/L	0.2		10			4
	MS	2307931-01	44.646	156.09	101.01	mg/L		110		80 - 120		5
	MSD	2307931-01	44.646	155.91	101.01	mg/L	0.1	110	10	80 - 120		6
QC Batch ID: B164769		Used client sample: Y - Description: 5.8-7 (North), 04/20/2023 09:40										
Chloride	DUP	2307929-01	2.3290	2.3230		mg/L	0.3		10			7
	MS	2307929-01	2.3290	54.895	50.505	mg/L		104		80 - 120		8
	MSD	2307929-01	2.3290	55.068	50.505	mg/L	0.3	104	10	80 - 120		9
Nitrate as N	DUP	2307929-01	0.080000	0.076000		mg/L	5.1		10		J	7
	MS	2307929-01	0.080000	5.2394	5.0505	mg/L		102		80 - 120		8
	MSD	2307929-01	0.080000	5.2606	5.0505	mg/L	0.4	103	10	80 - 120		9
Sulfate	DUP	2307929-01	1.9540	1.8570		mg/L	5.1		10			7
	MS	2307929-01	1.9540	104.35	101.01	mg/L		101		80 - 120		8
	MSD	2307929-01	1.9540	103.92	101.01	mg/L	0.4	101	10	80 - 120		9
QC Batch ID: B164951		Used client sample: N										
Dissolved Calcium	DUP	2307931-01	3.0954	2.9699		mg/L	4.1		20			10
	MS	2307931-01	3.0954	12.169	10.204	mg/L		88.9		75 - 125		11
	MSD	2307931-01	3.0954	12.780	10.204	mg/L	4.9	94.9	20	75 - 125		12
Dissolved Magnesium	DUP	2307931-01	0.29551	0.29124		mg/L	1.5		20			10
	MS	2307931-01	0.29551	9.2873	10.204	mg/L		88.1		75 - 125		11
	MSD	2307931-01	0.29551	9.7286	10.204	mg/L	4.6	92.4	20	75 - 125		12
Dissolved Sodium	DUP	2307931-01	112.03	111.79		mg/L	0.2		20			10
	MS	2307931-01	112.03	114.75	10.204	mg/L		26.7		75 - 125	A03	11
	MSD	2307931-01	112.03	119.76	10.204	mg/L	4.3	75.8	20	75 - 125		12

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Shafter-Wasco Irrigation
P.O. Box 1168
Wasco, CA 93280

Reported: 05/22/2023 13:35
Project: Irrigation Water
Project Number: [none]
Project Manager: Bryan J. Rosales

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals	R#
									RPD	Percent Recovery		
QC Batch ID: B164951		Used client sample: N										
Dissolved Potassium	DUP	2307931-01	1.8146	1.7619		mg/L	2.9		20			10
	MS	2307931-01	1.8146	10.959	10.204	mg/L		89.6		75 - 125		11
	MSD	2307931-01	1.8146	11.462	10.204	mg/L	4.5	94.5	20	75 - 125		12

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B163947-DUP1	DUP	EPA-310.1	04/24/23	04/24/23 19:15	RML	MET-1	2
2	B163947-DUP1	DUP	EPA-150.1	04/24/23	04/24/23 19:15	RML	MET-1	1
3	B163947-DUP1	DUP	EPA-120.1	04/24/23	04/24/23 19:15	RML	MET-1	1
4	B164704-DUP1	DUP	EPA-300.0	04/21/23	04/22/23 04:03	RC1	IC1	1
5	B164704-MS1	MS	EPA-300.0	04/21/23	04/22/23 04:25	RC1	IC1	1.010
6	B164704-MSD1	MSD	EPA-300.0	04/21/23	04/22/23 04:46	RC1	IC1	1.010
7	B164769-DUP1	DUP	EPA-300.0	04/21/23	04/22/23 11:23	RC1	IC1	1
8	B164769-MS1	MS	EPA-300.0	04/21/23	04/22/23 15:44	KSA	IC1	1.010
9	B164769-MSD1	MSD	EPA-300.0	04/21/23	04/22/23 16:06	KSA	IC1	1.010
10	B164951-DUP1	DUP	EPA-6010B	04/26/23	04/26/23 15:25	JRG	PE-OP4	1
11	B164951-MS1	MS	EPA-6010B	04/26/23	04/26/23 15:28	JRG	PE-OP4	1.020
12	B164951-MSD1	MSD	EPA-6010B	04/26/23	04/26/23 15:29	JRG	PE-OP4	1.020

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Shafter-Wasco Irrigation
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 Wasco, CA 93280

Reported: 05/22/2023 13:35
 Project: Irrigation Water
 Project Number: [none]
 Project Manager: Bryan J. Rosales

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
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QC Batch ID: B164951

Dissolved Boron	B164951-BLK1	0.025210	mg/L	0.10	0.010	J	1
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Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B164951-BLK1	PB	EPA-6010B	04/26/23	04/26/23 15:20	JRG	PE-OP4	1

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Reported: 05/22/2023 13:35
 Project: Irrigation Water
 Project Number: [none]
 Project Manager: Bryan J. Rosales

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B164951											
Dissolved Boron	B164951-BS1	LCS	1.0058	1.0000	mg/L	101		80 - 120			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B164951-BS1	LCS	EPA-6010B	04/26/23	04/26/23 15:21	JRG	PE-OP4	1

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Shafter-Wasco Irrigation
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Reported: 05/22/2023 13:35
 Project: Irrigation Water
 Project Number: [none]
 Project Manager: Bryan J. Rosales

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals	R#
									RPD	Percent Recovery		
QC Batch ID: B164951		Used client sample: N										
Dissolved Boron	DUP	2307931-01	0.39325	0.39055		mg/L	0.7		20			1
	MS	2307931-01	0.39325	1.4044	1.0204	mg/L		99.1		75 - 125		2
	MSD	2307931-01	0.39325	1.4137	1.0204	mg/L	0.7	100	20	75 - 125		3

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B164951-DUP1	DUP	EPA-6010B	04/26/23	04/26/23 15:25	JRG	PE-OP4	1
2	B164951-MS1	MS	EPA-6010B	04/26/23	04/26/23 15:28	JRG	PE-OP4	1.020
3	B164951-MSD1	MSD	EPA-6010B	04/26/23	04/26/23 15:29	JRG	PE-OP4	1.020

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Project: Irrigation Water
Project Number: [none]
Project Manager: Bryan J. Rosales

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A03 The sample concentration was more than 4 times the spike level.
- S05 The sample holding time was exceeded.