



Zalco
Laboratories, Inc.

4309 Armour Ave.
Bakersfield, CA 93308
661.395.0539

June 13, 2025

Richie Lawrence

North Kern Water Storage District
P O BOX 81435
Bakersfield, CA 93380
RE: Irrigation Analysis

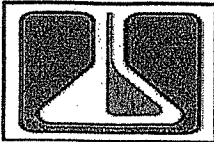
Zalco Work Order: 2506008
Zalco Project:

Enclosed are the results of analyses for samples received by our laboratory on 6/2/2025. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Andrea Magana". The signature is fluid and cursive.

Andrea Magana For Juan Magana
Laboratory Technical Manager



ZALCO LABORATORIES, INC.

4309 Armour Avenue, Bakersfield, CA 93308

Phone: (661) 395-0539

Website: www.zalcolabs.com

CHAIN OF CUSTODY, ID#

2506008

PO:

Project ID:

ANALYSIS REQUESTED

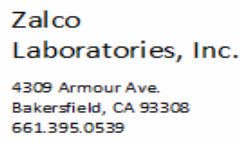
COMPANY <u>North Kern Water Storage District</u>														Turnaround Time:			
CONTACT <u>Richie Lawrence</u>														Routine: <input checked="" type="checkbox"/> (10 Business Days)			
PHONE <u>661-978-9182</u>														Rush By: <u>5</u> Working Days			
ADDRESS <u>33380 Laurel Ave Bakersfield, CA 93308</u>														EDT: <u>No</u> <u>YN</u>			
E-MAIL <u>rlawrence@northkernwsl.com</u>														CLIP: (DIST/PERSON)			
SAMPLER (SIGNATURE) <u>Jonathan</u>														System#			
														Client Declined			
														State Submittal <input checked="" type="checkbox"/> <u>YN</u>			
														EMAIL: <input checked="" type="checkbox"/>			
LAB #	SAMPLE DESCRIPTION	DATE SAMPLED	TIME SAMPLED	Irrigation	TSS	Arsonic						Sample Matrix	Type of Container (S)	Number of Containers	Chlorine Residual	Temperature °C	NOTES:
1	Kimberlina	6/2/25	7:47	X	X	X						NP	P	2	-	-	29.5
2	Stiff house	6/2/25	8:09	X	X	X						NP	P	2	-	-	
3	7 Standard	6/2/25	8:37	X	X	X						NP	P	2	-	-	
4	CT2 @ Zachary	6/2/25	9:12	X	X	X						NP	P	2	-	-	
5	head of Beardsly	6/2/25	10:00	X	X	X						NP	P	2	-	-	

Relinquished By:	Company:	Date:	Time:	Received By:	Date:	Time:	Company:
<u>Jonathan Nevarez</u>	<u>NK WSD</u>	<u>6-2-25</u>	<u>10:40</u>	<u>LWL</u>	<u>6-2-25</u>	<u>10:40</u>	<u>ZALCO</u>

NOTE: Samples Discarded 30 days after results unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.

Sample Type Key:

NP-Non-Potable; BS-Biosolid; DW-Drinking Water; GW-Groundwater; G-Gas
LPG-Liquid Petroleum Gas; OL-Oil; P-Petroleum; S-Solid/Soil; ST-Storm water
WW-Wastewater; L-Liquid; Aq-Aqueous



Reported:
06/13/2025 17:12



**Zalco
Laboratories, Inc.**

4309 Armour Ave.
Bakersfield, CA 93308
661.395.0539

North Kern Water Storage District
P O BOX 81435
Bakersfield, CA 93380

Project: Irrigation Analysis
Project Number: Irrigation Analysis
Project Manager: Richie Lawrence

Reported:
06/13/2025 17:12

Sample Results

(Continued)

Sample Name: Stiff House

Sampled Date - Time: 6/2/2025 8:09:00AM

Lab ID: 2506008-02

Matrix: Water

Sample Type: Grab

Analyte	Result	Report Limit	MDL	Units	Dilution	Date Analyzed	Method	Analyst Initials	Qual
---------	--------	-----------------	-----	-------	----------	------------------	--------	---------------------	------

Solids

Total Suspended Solids	10	2.5	0.33	mg/L	1	6/6/25 13:00	SM 2540 D	JLB	
-------------------------------	-----------	-----	------	------	---	--------------	-----------	-----	--

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document. No duplication of this report is allowed, except in its entirety.

Zalco Laboratories, Inc. 4309 Armour Ave. Bakersfield CA 93308 (661) 395-0539



**Zalco
Laboratories, Inc.**

4309 Armour Ave.
Bakersfield, CA 93308
661.395.0539

North Kern Water Storage District
P O BOX 81435
Bakersfield, CA 93380

Project: Irrigation Analysis
Project Number: Irrigation Analysis
Project Manager: Richie Lawrence

Reported:
06/13/2025 17:12

Sample Results

(Continued)

Sample Name: 7th Standard

Sampled Date - Time: 6/2/2025 8:37:00AM

Lab ID: 2506008-03

Matrix: Water

Sample Type: Grab

Analyte	Result	Report Limit	MDL	Units	Dilution	Date Analyzed	Method	Analyst Initials	Qual
---------	--------	-----------------	-----	-------	----------	------------------	--------	---------------------	------

Solids

Total Suspended Solids	4.4	2.5	0.33	mg/L	1	6/6/25 13:00	SM 2540 D	JLB	
-------------------------------	------------	-----	------	------	---	--------------	-----------	-----	--

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document. No duplication of this report is allowed, except in its entirety.

Zalco Laboratories, Inc. 4309 Armour Ave. Bakersfield CA 93308 (661) 395-0539



**Zalco
Laboratories, Inc.**

4309 Armour Ave.
Bakersfield, CA 93308
661.395.0539

North Kern Water Storage District
P O BOX 81435
Bakersfield, CA 93380

Project: Irrigation Analysis
Project Number: Irrigation Analysis
Project Manager: Richie Lawrence

Reported:
06/13/2025 17:12

Sample Results

(Continued)

Sample Name: CT 1 @ Zachary

Sampled Date - Time: 6/2/2025 9:12:00AM

Lab ID: 2506008-04

Matrix: Water

Sample Type: Grab

Analyte	Result	Report Limit	MDL	Units	Dilution	Date Analyzed	Method	Analyst Initials	Qual
---------	--------	-----------------	-----	-------	----------	------------------	--------	---------------------	------

Solids

Total Suspended Solids	ND	2.5	0.33	mg/L	1	6/6/25 13:00	SM 2540 D	JLB	
------------------------	----	-----	------	------	---	--------------	-----------	-----	--

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document. No duplication of this report is allowed, except in its entirety.

Zalco Laboratories, Inc. 4309 Armour Ave. Bakersfield CA 93308 (661) 395-0539



**Zalco
Laboratories, Inc.**

4309 Armour Ave.
Bakersfield, CA 93308
661.395.0539

North Kern Water Storage District
P O BOX 81435
Bakersfield, CA 93380

Project: Irrigation Analysis
Project Number: Irrigation Analysis
Project Manager: Richie Lawrence

Reported:
06/13/2025 17:12

Sample Results

(Continued)

Sample Name: Head of Beardsley

Sampled Date - Time: 6/2/2025 10:00:00AM

Lab ID: 2506008-05

Matrix: Water

Sample Type: Grab

Analyte	Result	Report Limit	MDL	Units	Dilution	Date Analyzed	Method	Analyst Initials	Qual
---------	--------	-----------------	-----	-------	----------	------------------	--------	---------------------	------

Solids

Total Suspended Solids	6.4	2.5	0.33	mg/L	1	6/6/25 13:00	SM 2540 D	JLB	
-------------------------------	------------	-----	------	------	---	--------------	-----------	-----	--



**Zalco
Laboratories, Inc.**

4309 Armour Ave.
Bakersfield, CA 93308
661.395.0539

North Kern Water Storage District
P O BOX 81435
Bakersfield, CA 93380

Project: Irrigation Analysis
Project Number: Irrigation Analysis
Project Manager: Richie Lawrence

Reported:
06/13/2025 17:12

Quality Control

Solids

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
---------	--------	------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------

Batch: 5F00177 - WetChem

Blank (5F00177-BLK1)

Total Suspended Solids ND 2.5 mg/L Prepared & Analyzed: 6/6/2025

Duplicate (5F00177-DUP1)

Total Suspended Solids 8.4 2.5 mg/L 4.4 62.5 10 Prepared & Analyzed: 6/6/2025

Reference (5F00177-SRM1)

Total Suspended Solids 91 mg/L 100 90.6 70-130 Prepared & Analyzed: 6/6/2025



**Zalco
Laboratories, Inc.**

4309 Armour Ave.
Bakersfield, CA 93308
661.395.0539

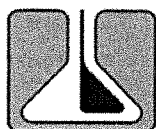
North Kern Water Storage District
P O BOX 81435
Bakersfield, CA 93380

Project: Irrigation Analysis
Project Number: Irrigation Analysis
Project Manager: Richie Lawrence

Reported:
06/13/2025 17:12

Notes and Definitions

Item	Definition
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

**ZALCO LABORATORIES, INC.**

Analytical and Consulting Services

www.zalcolabs.com

4309 Armour Avenue, Bakersfield, CA 93308

(661) 395-0539 FAX (661) 395-3069

North Kern Water District Storage District
33380 Cawelo Ave.
Bakersfield, CA 93308

Laboratory No: 2506008-01
Date Received: 06/02/25
Analysis Date: 06/03/25
Date Reported: 06/13/25

Attention: Richie Lawrence

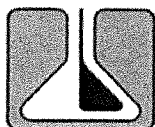
Sample Identification: Kimberlina
Sampled by: Jonathan Nevares Date: 6/2/2025 Time: 7:47:00 AM

IRRIGATION WATER ANALYSIS

pH..... 7.16
Specific Conductance 326
(micromhos/cm @ 25 C)

Specific Conductance (SC):..... 0.326
(millimhos/cm @ 25 C)

Constituents	mg/L	meq/L
Calcium, Ca	25	1.2
Magnesium, Mg	1.8	0.15
Sodium, Na	29	1.30
Potassium, K	1.9	0.049
Alkalinity as:		
Hydroxide, OH	0.0	0
Carbonate, CO ₃	0.0	0
Bicarbonate, HCO ₃	48	0.79
Chloride, Cl	39	1.1
Sulfate, SO ₄	46	0.96
Nitrate, NO ₃	5.3	0.085
Totals (Sum)	177	5.6
Boron, B	< 0.10	
Total Dissolved Solids, (Gravimetric)	190	
Calculated Hardness, CaCO ₃	70	
Sodium Adsorption Ratio, SAR	1.5	
Exchangeable Sodium Percentage, ESP	0.9	
Cation/Anion Balance, %	7%	
Langelier Scale Index	-1.02	

**ZALCO LABORATORIES, INC.**

Analytical and Consulting Services

www.zalcolabs.com

4309 Armour Avenue, Bakersfield, CA 93308

(661) 395-0539 FAX (661) 395-3069

North Kern Water District Storage District
33380 Cawelo Ave.
Bakersfield, CA 93308

Laboratory No: 2506008-02
Date Received: 06/02/25
Analysis Date: 06/03/25
Date Reported: 06/13/25

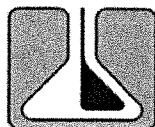
Attention: Richie Lawrence

Sample Identification: Stiff House
Sampled by: Jonathan Nevares Date: 6/2/2025 Time: 8:09:00 AM

IRRIGATION WATER ANALYSIS

pH.....	8.11		
Specific Conductance	323	Specific Conductance (SC):.....	0.323
(micromhos/cm @ 25 C)		(millimhos/cm @ 25 C)	

Constituents	mg/L	meq/L
Calcium, Ca	27	1.3
Magnesium, Mg	2.6	0.21
Sodium, Na	25	1.10
Potassium, K	2.0	0.051
Alkalinity as:		
Hydroxide, OH	0.0	0
Carbonate, CO ₃	0.0	0
Bicarbonate, HCO ₃	70	1.14
Chloride, Cl	24	0.68
Sulfate, SO ₄	41	0.85
Nitrate, NO ₃	6.9	0.11
Totals (Sum)	170	5.4
Boron, B	< 0.10	
Total Dissolved Solids, (Gravimetric)	210	
Calculated Hardness, CaCO ₃	78	
Sodium Adsorption Ratio, SAR	1.2	
Exchangeable Sodium Percentage, ESP	0.5	
Cation/Anion Balance, %	4%	
Langelier Scale Index	0.12	

**ZALCO LABORATORIES, INC.**

Analytical and Consulting Services

www.zalcolabs.com

4309 Armour Avenue, Bakersfield, CA 93308

(661) 395-0539 FAX (661) 395-3069

North Kern Water District Storage District
33380 Cawelo Ave.
Bakersfield, CA 93308

Laboratory No: 2506008-03
Date Received: 06/02/25
Analysis Date: 06/03/25
Date Reported: 06/13/25

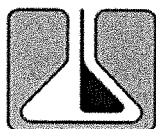
Attention: Richie Lawrence

Sample Identification: 7th Standard
Sampled by: Jonathan Nevares Date: 6/2/2025 Time: 8:37:00 AM

IRRIGATION WATER ANALYSIS

pH.....	7.50		
Specific Conductance	323	Specific Conductance (SC):.....	0.323
(micromhos/cm @ 25 C)		(millimhos/cm @ 25 C)	

Constituents	mg/L	meq/L
Calcium, Ca	9.4	0.5
Magnesium, Mg	1.7	0.14
Sodium, Na	8.5	0.37
Potassium, K	1.7	0.043
Alkalinity as:		
Hydroxide, OH	0.0	0
Carbonate, CO ₃	0.0	0
Bicarbonate, HCO ₃	55	0.89
Chloride, Cl	4.2	0.12
Sulfate, SO ₄	7.2	0.15
Nitrate, NO ₃	< 0.5	0
Totals (Sum)	66	2.2
Boron, B	< 0.10	
Total Dissolved Solids, (Gravimetric)	120	
Calculated Hardness, CaCO ₃	30	
Sodium Adsorption Ratio, SAR	0.7	
Exchangeable Sodium Percentage, ESP	-0.2	
Cation/Anion Balance, %	13%	
Langelier Scale Index	-1.04	

**ZALCO LABORATORIES, INC.**

Analytical and Consulting Services

www.zalcolabs.com

4309 Armour Avenue, Bakersfield, CA 93308

(661) 395-0539 FAX (661) 395-3069

North Kern Water District Storage District
33380 Cawelo Ave.
Bakersfield, CA 93308

Laboratory No: 2506008-04
Date Received: 06/02/25
Analysis Date: 06/03/25
Date Reported: 06/13/25

Attention: Richie Lawrence

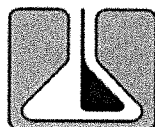
Sample Identification: CT 1 Zachary
Sampled by: Jonathan Nevares Date: 6/2/2025 Time: 9:12:00 AM

IRRIGATION WATER ANALYSIS

pH..... 8.42
Specific Conductance 304
(micromhos/cm @ 25 C)

Specific Conductance (SC):..... 0.304
(millimhos/cm @ 25 C)

Constituents	mg/L	meq/L
Calcium, Ca	12	0.6
Magnesium, Mg	< 0.1	0
Sodium, Na	41	1.80
Potassium, K	1.0	0.026
Alkalinity as:		
Hydroxide, OH	0.0	0
Carbonate, CO ₃	0.0	0
Bicarbonate, HCO ₃	61	1.01
Chloride, Cl	24	0.68
Sulfate, SO ₄	41	0.85
Nitrate, NO ₃	0.9	0.015
Totals (Sum)	157	5.0
Boron, B	< 0.10	
Total Dissolved Solids, (Gravimetric)	170	
Calculated Hardness, CaCO ₃	30	
Sodium Adsorption Ratio, SAR	3.2	
Exchangeable Sodium Percentage, ESP	3.3	
Cation/Anion Balance, %	6%	
Langelier Scale Index	0.03	

**ZALCO LABORATORIES, INC.**

Analytical and Consulting Services

www.zalcolabs.com

4309 Armour Avenue, Bakersfield, CA 93308

(661) 395-0539 FAX (661) 395-3069

North Kern Water District Storage District
33380 Cawelo Ave.
Bakersfield, CA 93308

Laboratory No: 2506008-05
Date Received: 06/02/25
Analysis Date: 06/03/25
Date Reported: 06/13/25

Attention: Richie Lawrence

Sample Identification: Head of Beardsley
Sampled by: Jonathan Nevares Date: 6/2/2025 Time: 10:00:00 AM

IRRIGATION WATER ANALYSIS

pH.....	7.60		
Specific Conductance	123	Specific Conductance (SC):.....	0.123
(micromhos/cm @ 25 C)		(millimhos/cm @ 25 C)	

<u>Constituents</u>	<u>mg/L</u>	<u>meq/L</u>
Calcium, Ca	10	0.5
Magnesium, Mg	1.8	0.15
Sodium, Na	8.7	0.38
Potassium, K	1.8	0.046
Alkalinity as:		
Hydroxide, OH	0.0	0
Carbonate, CO ₃	0.0	0
Bicarbonate, HCO ₃	49	0.81
Chloride, Cl	3.4	0.096
Sulfate, SO ₄	6.8	0.14
Nitrate, NO ₃	0.5	0.0084
Totals (Sum)	62	2.1
Boron, B	< 0.10	
Total Dissolved Solids, (Gravimetric)	100	
Calculated Hardness, CaCO ₃	32	
Sodium Adsorption Ratio, SAR	0.7	
Exchangeable Sodium Percentage, ESP	-0.2	
Cation/Anion Balance, %	7%	
Langelier Scale Index	-0.97	



BSK Associates Bakersfield
4820 Rosedale Ln
Bakersfield, CA 93314
661-327-0671 (Main)

BIF0050

6/09/2025

Invoice: BI00985

Andrea Magana
Zalco Laboratories
4309 Armour Avenue
Bakersfield, CA 93308

RE: Report for BIF0050 General

Dear Andrea Magana,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 6/3/2025. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2016 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Client Services Representative, Misty Orton, at 661-327-0671.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

A handwritten signature in black ink, appearing to read 'Misty Orton', is written over a light yellow rectangular background.

Misty Orton, Project Manager

Case Narrative

Project and Report Details		Invoice Details
Client:	Zalco Laboratories	Invoice To: Zalco Laboratories
Report To:	Andrea Magana	Invoice Attn: Andrea Magana
Project #:	2506008	Project PO#: -
Received:	6/03/2025 - 10:50	
Report Due:	6/09/2025	

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt °C: 4.1

Containers Intact
COC/Labels Agree
Received On Blue Ice
Packing Material - Other
Sample(s) were received in temperature range.
Initial receipt at BSK-BAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Andrea Magana	FINAL.RPT	jmagana@zalcolabs.com;Julian@zalcolabs.com
Ashlee Gonzalez	FINAL.RPT	admin@zalcolabs.com



BIF0050

General

2506008

Certificate of Analysis

Sample ID: BIF0050-01

Sampled By: Client

Sample Description: 2506008-01 // Non Potable

Sample Date - Time: 06/02/2025 - 07:47

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Arsenic	EPA 200.8	2.3	2.0	ug/L	1	AIF0187	06/04/25	06/04/25	



BIF0050

General

2506008

Certificate of Analysis

Sample ID: BIF0050-02

Sampled By: Client

Sample Description: 2506008-02 // Non Potable

Sample Date - Time: 06/02/2025 - 08:09

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Arsenic	EPA 200.8	3.5	2.0	ug/L	1	AIF0187	06/04/25	06/04/25	



BIF0050

General

2506008

Certificate of Analysis

Sample ID: BIF0050-03

Sampled By: Client

Sample Description: 2506008-03 // Non Potable

Sample Date - Time: 06/02/2025 - 08:37

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Arsenic	EPA 200.8	3.7	2.0	ug/L	1	AIF0187	06/04/25	06/04/25	



BIF0050

General

2506008

Certificate of Analysis

Sample ID: BIF0050-04

Sampled By: Client

Sample Description: 2506008-04 // Non Potable

Sample Date - Time: 06/02/2025 - 09:12

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Arsenic	EPA 200.8	4.0	2.0	ug/L	1	AIF0187	06/04/25	06/04/25	



BIF0050

General

2506008

Certificate of Analysis

Sample ID: BIF0050-05

Sampled By: Client

Sample Description: 2506008-05 // Non Potable

Sample Date - Time: 06/02/2025 - 10:00

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Arsenic	EPA 200.8	3.6	2.0	ug/L	1	AIF0191	06/04/25	06/04/25	

BSK Associates Laboratory Fresno
Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
---------	--------	----	-------	-------------	---------------	------	-------------	-----	-----------	---------------	------

EPA 200.8 - Quality Control

Batch: AIF0187

Prepared: 6/4/2025

Prep Method: EPA 200.2

Analyst: AHS

Blank (AIF0187-BLK1)

Arsenic	ND	2.0	ug/L							06/04/25
---------	----	-----	------	--	--	--	--	--	--	----------

Blank Spike (AIF0187-BS1)

Arsenic	240	2.0	ug/L	240	ND	98	85-115			06/04/25
---------	-----	-----	------	-----	----	----	--------	--	--	----------

Blank Spike Dup (AIF0187-BSD1)

Arsenic	230	2.0	ug/L	240	ND	97	85-115	1	20	06/04/25
---------	-----	-----	------	-----	----	----	--------	---	----	----------

Matrix Spike (AIF0187-MS1), Source: AIF0146-01

Arsenic	240	2.0	ug/L	240	7.5	97	70-130			06/04/25
---------	-----	-----	------	-----	-----	----	--------	--	--	----------

Matrix Spike (AIF0187-MS2), Source: BIF0041-01

Arsenic	250	2.0	ug/L	240	2.8	103	70-130			06/04/25
---------	-----	-----	------	-----	-----	-----	--------	--	--	----------

Matrix Spike Dup (AIF0187-MSD1), Source: AIF0146-01

Arsenic	240	2.0	ug/L	240	7.5	95	70-130	2	20	06/04/25
---------	-----	-----	------	-----	-----	----	--------	---	----	----------

Matrix Spike Dup (AIF0187-MSD2), Source: BIF0041-01

Arsenic	240	2.0	ug/L	240	2.8	100	70-130	3	20	06/04/25
---------	-----	-----	------	-----	-----	-----	--------	---	----	----------

EPA 200.8 - Quality Control

Batch: AIF0191

Prepared: 6/4/2025

Prep Method: EPA 200.2

Analyst: AHS

Blank (AIF0191-BLK1)

Arsenic	ND	2.0	ug/L							06/04/25
---------	----	-----	------	--	--	--	--	--	--	----------

Blank Spike (AIF0191-BS1)

Arsenic	240	2.0	ug/L	240	ND	99	85-115			06/04/25
---------	-----	-----	------	-----	----	----	--------	--	--	----------

Blank Spike Dup (AIF0191-BSD1)

Arsenic	230	2.0	ug/L	240	ND	95	85-115	3	20	06/04/25
---------	-----	-----	------	-----	----	----	--------	---	----	----------

Matrix Spike (AIF0191-MS1), Source: VIE0548-01

Arsenic	230	2.0	ug/L	240	ND	97	70-130			06/04/25
---------	-----	-----	------	-----	----	----	--------	--	--	----------

Matrix Spike Dup (AIF0191-MSD1), Source: VIE0548-01

Arsenic	240	2.0	ug/L	240	ND	100	70-130	3	20	06/04/25
---------	-----	-----	------	-----	----	-----	--------	---	----	----------

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Field tests are outside the scope of laboratory accreditation and there is no certification available for field testing.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.
- (2) - Formerly known as Bis(2-Chloroisopropyl) ether.
Unless otherwise noted, TOC results by SM 5310C method do not include purgeable organic carbon, which is removed along with the inorganic carbon interference. The POC contribution to TOC is considered to be negligible.

Certificate of Analysis

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected below MRL/MDL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit	U:	The analyte was not detected at or above the reported sample quantitation limit.

Please see the individual Subcontract Lab's report for applicable certifications.

The following parameters are not available for certification through CA ELAP:

Odor Diisopropyl ether (DIPE) by EPA 524.2

Certificate of Analysis

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Bakersfield

State of California - ELAP 1180-S3

Fresno

State of California - ELAP 1180

Los Angeles CSD 9254479

State of Nevada NV-C24-00233

EPA UCMR5 CA00079

State of Hawaii 4021

NELAP certified 4021-024

State of Oregon - NELAP 4021-024

State of Washington C997-25

Sacramento

State of California - ELAP 1180-S1

San Bernardino

State of California - ELAP 1180-S2

NELAP certified 4119-009

Los Angeles CSD 9254478

State of Oregon - NELAP 4119-009

Vancouver

NELAP certified WA100008-020

State of Washington C824-24

State of Oregon - NELAP WA100008-020

Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$		Yes	No	NA	Were correct containers and preservatives received for the tests requested?		Yes	No	NA
	If samples were taken today, is there evidence that chilling has begun?		Yes	No	NA	Bubbles Present VOAs (524.2/TTHM/TCP)? TB Received? (Check Method Below)		Yes	No	NA
	Did all bottles arrive unbroken and intact?		Yes	No		Was a sufficient amount of sample received?		Yes	No	NA
	Did all bottle labels agree with COC?		Yes	No		Do samples have a hold time <72 hours?		Yes	No	NA
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?		Yes	NA		Was PM notified of discrepancies? PM: dt: email scan copy		Yes	No	NA
Bottles Received means preservation/chlorine checks are either N/A or are performed in the lab	250ml(A) 500ml(B) 1Liter(C) 40mlVOA(V) 125ml(D)		Checks*	Passed?	1-5					
	Bacti Na ₂ S ₂ O ₃		—	—						
	None (P) White Label		—	—						
	Cr6 (P) Lt. Green Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ DW		Cl, pH > 8	P F						
	Cr6 (P) Pink Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ WW		pH 9.3-9.7	P F						
	Cr6 (P) Black Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ 7199 ***24 HOUR HOLD TIME***		pH 9.0-9.5	P F						
	HNO ₃ (P) Red Label or HCl (P) Purple Cap/Lt. Blue Label		—	—	10					
	H ₂ SO ₄ (P) or (AG) Yellow Label		pH < 2	P F						
	NaOH (P) Green Cap/Label		Cl, pH > 10	P F						
	NaOH + ZnAc (P)		pH > 9	P F						
	Dissolved Oxygen 300ml (g)		—	—						
	None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270		—	—						
	HCl (AG) Lt. Blue Label O&G, Diesel, TCP		—	—						
	Ascorbic, EDTA, KH ₂ Ct (AG) Pink Label 525		—	—						
	Na ₂ SO ₃ 250mL (AG) Neon Green Label 515		—	—						
	Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549		—	—						
	Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524		—	—						
	Na ₂ S ₂ O ₃ (CG) Blue Label 504, 505, 547		—	—						
	Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531		pH < 3	P F						
	NH ₄ Cl (AG) Purple Label 552		—	—						
	EDA (P) or (AG) Brown Label DBPs		—	—						
	HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624		—	—						
	Buffer pH 4 (CG)		—	—						
	H ₃ PO ₄ (CG) Salmon Label		—	—						
	Trizma - EPA 537.1 Light Blue Label FB		---	---						
	Ammonia Acetate - EPA 533 Purple Label FB		---	---						
	Bottled Water		—	—						
	Clear Glass: Jar / VOA		—	—						
	OTHER:		—	—						
	OTHER:		—	—						
Split	Container	Preservative	Lot #	Initials	Date/Time	Preservation Check				
	S P					pH Lot #				
	S P					Cl Lot #				
Comments	*Preservation check completed by lab performing analysis.			✓ Indicates Blanks Received						
	Labeled by:			504 ___ 524.2 ___ TTHM ___ 537/533 ___ TCP ___ ✓ MS/MSD Received Method: _____						
Checked by:										

Scanned: MIR

Rush/Short HT Page: _____ Time: _____

SUBCONTRACT ORDER

Zalco Laboratories, Inc
2506008

BIF0050 Zalco0539 06/03/2025

SENDING LABORATORY:Zalco Laboratories, Inc
4309 Armour Ave
Bakersfield, CA 93308
Phone: 661.395.0539
Fax: N/A
Project Manager: Juan MaganaRECEIVING LABORATORY:BSK Analytical Laboratories
691 N. Laverne Avenue, Suite 101
Fresno, CA 93727
Phone : (559) 497-2888
Fax: (559) 485-6935Non Potable
NO EOT needed

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 2506008-01	Water	Sampled:06/02/25 07:47		Non Potable
As-200.8	06/09/25 09:00	11/29/25 07:47		
Containers Supplied:				
Sample ID: 2506008-02	Water	Sampled:06/02/25 08:09		Non Potable
As-200.8	06/09/25 09:00	11/29/25 08:09		
Containers Supplied:				
Sample ID: 2506008-03	Water	Sampled:06/02/25 08:37		Non Potable
As-200.8	06/09/25 09:00	11/29/25 08:37		
Containers Supplied:				
Sample ID: 2506008-04	Water	Sampled:06/02/25 09:12		Non Potable
As-200.8	06/09/25 09:00	11/29/25 09:12		
Containers Supplied:				
Sample ID: 2506008-05	Water	Sampled:06/02/25 10:00		Non Potable
As-200.8	06/09/25 09:00	11/29/25 10:00		
Containers Supplied:				

Temp. u.i
#05

RUSH!

u day

LNL

6-2-25

Released By

Date

Received By

Date

Andrea M

6/3/25

Received By

Date

WI - BI 0



SAMPLE TRANSIT ORDER

BIF0050

Misty Orton

Receipt temp @ FAL: 3.3Thermometer/ IR Gun ID: 83SENDING LABORATORY:

Project Manager: Misty Orton
E-mail: mistyo@bskassociates.com

RECEIVING LABORATORY:

BSK Associates Laboratory Fresno
687 N. Laverne Avenue
Fresno, CA 93727
559-497-2888 (Main)

Turnaround (Days): 4
QC Deliverables: I Std III IV

Client: Zalco Laboratories

Sample ID	Samp Desc	Comments	Sample Date
BIF0050-01	2506008-01	Client Matrix Drinking Water Non Potable	06/02/2025 07:47
	Lab Matrix: Water		
	Analysis:		
	Arsenic, CA DW ICPMS		
BIF0050-02	2506008-02	Client Matrix Drinking Water Non Potable	06/02/2025 08:09
	Lab Matrix: Water		
	Analysis:		
	Arsenic, CA DW ICPMS		
BIF0050-03	2506008-03	Client Matrix Drinking Water Non Potable	06/02/2025 08:37
	Lab Matrix: Water		
	Analysis:		
	Arsenic, CA DW ICPMS		
BIF0050-04	2506008-04	Client Matrix Drinking Water Non Potable	06/02/2025 09:12
	Lab Matrix: Water		
	Analysis:		
	Arsenic, CA DW ICPMS		
BIF0050-05	2506008-05	Client Matrix Drinking Water Non Potable	06/02/2025 10:00
	Lab Matrix: Water		
	Analysis:		
	Arsenic, CA DW ICPMS		

Containers Included

BIF0050-01	A	Z- 125mL P / HNO3
BIF0050-02	A	Z- 125mL P / HNO3
BIF0050-03	A	Z- 125mL P / HNO3
BIF0050-04	A	Z- 125mL P / HNO3
BIF0050-05	A	Z- 125mL P / HNO3

Released By

Date

Received By

Date

Released By

Date

Received By

Date

SAMPLE TRANSIT INTEGRITY

BIF0050

PM: Misty Orton

06/03/2025

Zalco0539

4



BSK Bottles: Yes No Page 1 of 5

COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$	Yes No NA	Were correct containers and preservatives received for the tests requested?	Yes No NA		
	Did all bottles arrive unbroken and intact?	Yes No	Bubbles Present VOAs (524.2/TCP/TTHM)?	Yes No NA		
	Was a sufficient amount of sample received?	Yes No	TB Received? (Check Method Below)	Yes No NA		
	Do samples have a hold time < 72 hours?	Yes No	Was PM notified of discrepancies?	Yes No NA		
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No NA	PM: By/Time:			
Bottles Received "..." means preservation/chlorine checks are either N/A or are performed in the lab	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?	13		
	Bacti Na2S2O3	---	---			
	None (P) White Cap	---	---			
	Cr6 (P) Lt. Green Label/Blue Cap NH4OH(NH4)SO4 DW	Cl, pH > 8	P F			
	Cr6 (P) Pink Label/Blue Cap NH4OH(NH4)SO4 WW	pH 9.3 - 9.7	P F			
	Cr6 (P) Black Label/Blue Cap NH4OH(NH4)SO4 7199 ***24 HOUR HOLD TIME***	pH 9.0 - 9.5	P F			
	HNO3 (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label	---	---	17		
	H2SO4 (P) or (AG) Yellow Cap/Label	pH < 2	P F			
	NaOH (P) Green Cap	Cl, pH > 10	P F			
	NaOH + ZnAc (P)	pH > 9	P F			
	Dissolved Oxygen 300ml (g)	---	---			
	None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	---	---			
	HCl (AG) Lt. Blue Label O&G, Diesel, TCP	---	---			
	Ascorbic, EDTA, KH2Ct (AG) Pink Label 525	---	---			
	Na2SO3 250ml (AG) Neon Green Label 515	---	---			
	Na2S2O3 1 Liter (Brown P) 549	---	---			
	Na2S2O3 (AG) Blue Label 548, THM, 524	---	---			
	Na2S2O3 (CG) Blue Label 504, 505, 547	---	---			
	Na2S2O3 + MCAA (CG) Orange Label 531	pH < 3	P F			
	NH4Cl (AG) Purple Label 552	---	---			
	EDA (AG) Brown Label DBPs	---	---			
	HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624	---	---			
	Buffer pH 4 (CG)	---	---			
	H3PO4 (CG) Salmon Label	---	---			
	250mL P / Trizma 531.1	---	---			
	Other:					
	Asbestos 1L (P) w/Foil / LL Metals Bottle	---	---			
	Bottled Water	---	---			
	Clear Glass 250ml / 500ml / 1 Liter	---	---			
	Solids: Brass / Steel / Plastic Bag	---	---			
Split	Container	Preservative	Date/Time/Initials	Container	Preservative	Date/Time/Initials
	S P			S P		
Comments				✓ Indicates Blanks Received 504 _____ 524.2 _____ TCP _____ TTHM _____ 537 _____ 8260/624 _____		

Preservation Check: pH Lot# _____

CI Lot# _____

Labels

Checked by: AK @ 1637 Scanned by: _____ @ _____ Paged by: _____ @ _____

RUSH