



BSK Associates Laboratory Fresno
1414 Stanislaus St
Fresno, CA 93706
559-497-2888 (Main)

Amended Report

AFE2513

6/14/2022

Invoice: AF13458

Rajdeep Singh
County of Fresno
4553 E. Hamilton Ave, Bldg 413
Fresno, CA 93702

RE: Report for AFE2513 General

Dear Rajdeep Singh,

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 5/23/2022. 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 Project Manager, Michelle Croft, at 559-497-2888.

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

Sincerely,

Joseph Boatwright, Quality Assurance Specialist



Accredited in Accordance with NELAP
ORELAP #4021

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AFE2513 FINAL 06142022 1250



Case Narrative

Project and Report Details Invoice Details

Client: County of Fresno
Report To: Rajdeep Singh
Project #: ATP-West Park Pedestrian Path
Received: 5/23/2022 - 13:22
Report Due: 5/31/2022

Invoice To: County of Fresno
Invoice Attn: Stephen Polfer
Project PO#: -

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt °C: 34.8
Containers Intact
COC/Labels Agree
Received with no thermal preservation.
Packing Material - Other
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Detailed Narrative

Report Amendments

Date: 6/14/2022
Initials: MKC

This amended report supersedes any previous reports issued by the laboratory. Amendments to this report are as follows: The sampler name is corrected as per Stephen Polfer.

Data Qualifiers

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

J Estimated value

Report Distribution

Table with 3 columns: Recipient(s), Report Format, CC. Row 1: Rajdeep Singh, FINAL.RPT, spolfer@fresnocountyca.gov



AFE2513

General

ATP-West Park Pedestrian Path

Certificate of Analysis

Sample ID: AFE2513-01

Sampled By: Fabian Cuiriz

Sample Description: B1-1, 100 ft. E/O Valentine Ave, E/B Shoulder, 0-6" // 22-0164

Sample Date - Time: 05/20/2022 - 12:05

Matrix: Solid

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 6010B	170	25	50	mg/kg	1	AFE1548	05/25/22	05/26/22	
Lead, WET	EPA 6010B	6.8		5.0	mg/L	1	AFF0225	06/06/22	06/08/22	

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AFE2513 FINAL 06142022 1250

*** Amended Report ***

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AFE2513

General

ATP-West Park Pedestrian Path

Certificate of Analysis

Sample ID: AFE2513-02

Sampled By: Fabian Cuiriz

Sample Description: B1-2, 100 ft. E/O Valentine Ave, E/B Shoulder, 6-12" // 22-0165

Sample Date - Time: 05/20/2022 - 12:05

Matrix: Solid

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 6010B	ND	25	50	mg/kg	1	AFE1548	05/25/22	05/26/22	

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AFE2513

General

ATP-West Park Pedestrian Path

Certificate of Analysis

Sample ID: AFE2513-03

Sampled By: Fabian Cuiriz

Sample Description: B2-1, 200 ft. N/O Jensen Ave, N/B Shoulder, 0-6" // 22-0166

Sample Date - Time: 05/20/2022 - 11:50

Matrix: Solid

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 6010B	40	25	50	mg/kg	1	AFE1548	05/25/22	05/26/22	J

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AFE2513

General

ATP-West Park Pedestrian Path

Certificate of Analysis

Sample ID: AFE2513-04

Sampled By: Fabian Cuiriz

Sample Description: B2-2, 200 ft. N/O Jensen Ave, N/B Shoulder, 6-12" // 22-0167

Sample Date - Time: 05/20/2022 - 11:50

Matrix: Solid

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 6010B	ND	25	50	mg/kg	1	AFE1548	05/25/22	05/26/22	

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AFE2513

General

ATP-West Park Pedestrian Path

Certificate of Analysis

Sample ID: AFE2513-05

Sampled By: Fabian Cuiriz

Sample Description: B3-1, 1100 ft. S/O Annadale Ave, N/B Shoulder, 0-6" // 22-0168

Sample Date - Time: 05/20/2022 - 12:20

Matrix: Solid

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 6010B	39	25	50	mg/kg	1	AFE1548	05/25/22	05/26/22	J

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AFE2513

General

ATP-West Park Pedestrian Path

Certificate of Analysis

Sample ID: AFE2513-06

Sampled By: Fabian Cuiriz

Sample Description: B3-2, 1100 ft. S/O Annadale Ave, N/B Shoulder, 6-12" // 22-0169

Sample Date - Time: 05/20/2022 - 12:20

Matrix: Solid

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 6010B	72	25	50	mg/kg	1	AFE1548	05/25/22	05/26/22	
Lead, WET	EPA 6010B	ND		5.0	mg/L	1	AFF0225	06/06/22	06/08/22	

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AFE2513

General

ATP-West Park Pedestrian Path

Certificate of Analysis

Sample ID: AFE2513-07

Sampled By: Fabian Cuiriz

Sample Description: B4-1, 1300 ft. S/O Annadale Ave, N/B Shoulder, 0-6" // 22-0170

Sample Date - Time: 05/20/2022 - 12:30

Matrix: Solid

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 6010B	ND	25	50	mg/kg	1	AFE1548	05/25/22	05/26/22	

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AFE2513

General

ATP-West Park Pedestrian Path

Certificate of Analysis

Sample ID: AFE2513-08

Sampled By: Fabian Cuiriz

Sample Description: B4-2, 1300 ft. S/O Annadale Ave, N/B Shoulder, 6-12" // 22-0171

Sample Date - Time: 05/20/2022 - 12:30

Matrix: Solid

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 6010B	ND	25	50	mg/kg	1	AFE1548	05/25/22	05/26/22	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



**BSK Associates Laboratory Fresno
Metals Quality Control Report**

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 6010B - Quality Control

Batch: AFE1548

Prepared: 5/25/2022

Prep Method: EPA 3050B

Analyst: CMF

Blank (AFE1548-BLK2)

Lead ND 25 50 mg/kg 05/26/22

Blank Spike (AFE1548-BS2)

Lead 100 25 50 mg/kg 98 104 75-125 05/26/22

Blank Spike Dup (AFE1548-BSD2)

Lead 100 25 50 mg/kg 99 105 75-125 2 20 05/26/22

Matrix Spike (AFE1548-MS2), Source: AFE1932-01

Lead 110 25 50 mg/kg 100 ND 113 75-125 05/26/22

Matrix Spike Dup (AFE1548-MSD2), Source: AFE1932-01

Lead 120 25 50 mg/kg 100 ND 116 75-125 3 20 05/26/22

EPA 6010B - Quality Control

Batch: AFF0225

Prepared: 6/6/2022

Prep Method: EPA 3010A for STLC/DISTLC

Analyst: MDS

Blank (AFF0225-BLK1)

Lead, WET ND 5.0 mg/L 06/08/22

Blank Spike (AFF0225-BS1)

Lead, WET 8.7 5.0 mg/L 8.0 ND 109 75-125 06/08/22

Blank Spike Dup (AFF0225-BSD1)

Lead, WET 8.5 5.0 mg/L 8.0 ND 106 75-125 2 20 06/08/22

Duplicate (AFF0225-DUP1), Source: AFE1932-01

Lead, WET ND 5.0 mg/L ND 20 06/08/22

Matrix Spike (AFF0225-MS1), Source: AFE1932-01

Lead, WET 8.9 5.0 mg/L 8.0 ND 111 75-125 06/08/22

Matrix Spike Dup (AFF0225-MSD1), Source: AFE1932-01

Lead, WET 8.7 5.0 mg/L 8.0 ND 108 75-125 2 20 06/08/22

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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)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%: Percent
NR: Non-Reportable

MDL: Method Detection Limit
RL: Reporting Limit: DL x Dilution
ND: None Detected below MRL/MDL
pCi/L: PicoCuries per Liter
RL Mult: RL Multiplier
MCL: Maximum Contaminant Limit

MDA95: Min. Detected Activity
MPN: Most Probable Number
CFU: Colony Forming Unit
Absent: Less than 1 CFU/100mLs
Present: 1 or more CFU/100mLs
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.

BSK is not accredited under the NELAP program for the following parameters:

Lead, WET

STLC

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

Fresno

State of California - ELAP	1180	State of Hawaii	4021
Los Angeles CSD	9254479	NELAP certified	4021-019
State of Nevada	CA000792022-1	State of Oregon - NELAP	4021-019
EPA UCMR5	CA00079	State of Washington	C997-22a

Sacramento

State of California - ELAP	2435
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San Bernardino

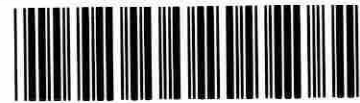
State of California - ELAP	2993	Los Angeles CSD	9254478
NELAP certified	4119-006	State of Oregon - NELAP	4119-006

Vancouver

NELAP certified	WA100008-014	State of Oregon - NELAP	WA100008-014
State of Washington	C824-21		

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Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$			Were correct containers and preservatives received for the tests requested?		
	Yes	No	NA	Yes	No	NA
	Yes	No	NA	Yes	No	NA
	Yes	No	NA	Yes	No	NA
	Yes	No		Yes	No	
	Yes	No		Yes	No	
	Yes	NA		Yes	No	NA
	250ml(A) 500ml(B) 1Liter(C) 40mlVOA(V) 125ml(D)	Checks*	Passed?	1-8		
	Bacti $\text{Na}_2\text{S}_2\text{O}_3$	—	—			
	None (P) White Cap	—	—			
	Cr6 (P) Lt. Green Label/Blue Cap $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ DW	Cl, pH > 8	P F			
	Cr6 (P) Pink Label/Blue Cap $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ WW	pH 9.3-9.7	P F			
	Cr6 (P) Black Label/Blue Cap $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ 7199 ***24 HOUR HOLD TIME***	pH 9.0-9.5	P F			
	HNO_3 (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label	—	—			
	H_2SO_4 (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, KH_2Ct (AG) Pink Label 525	—	—			
	Na_2SO_3 250mL (AG) Neon Green Label 515	—	—			
	$\text{Na}_2\text{S}_2\text{O}_3$ 1 Liter (Brown P) 549	—	—			
	$\text{Na}_2\text{S}_2\text{O}_3$ (AG) Blue Label 548, THM, 524	—	—			
	$\text{Na}_2\text{S}_2\text{O}_3$ (CG) Blue Label 504, 505, 547	—	—			
	$\text{Na}_2\text{S}_2\text{O}_3$ + MCAA (CG) Orange Label 531	pH < 3	P F			
	NH_4Cl (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_3PO_4 (CG) Salmon Label	—	—			
	Trizma – EPA 537.1 - Field Blank Required	—	—			
	Other:					
	Asbestos 1L (P) w/ Foil / LL Metals Bottle	—	—			
	Bottled Water	—	—			
	Clear Glass	—	—			
	Solids: Brass / Steel <u>Plastic Bag</u>	—	—			
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		
				504 ___ 524.2 ___ THM ___ 537.1 ___ TCP ___		
			✓ MS/MSD Received Method: _____			

Handwritten signature and scribble



1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 · Fax (559) 497-2893
 www.bs&kassociates.com

*Required Fields

Temp: 34.8

ALS

Turnaround Time Request
 Standard - 10 business days
 Rush (Surcharge may apply)
 Date needed: / /

AFF2513 Count7895 05/23/2022
 5



Company/Client Name*: County of Fresno Materials Testing Lab
 Report Attention*: Rajdeep Singh
 Additional cc's: Stephen Polfer
 City*: Fresno State*: CA Zip*: 93702
 Invoice To*: Stephen Polfer
 PO#: 5122200066
 State*: CA Zip*: 93702
 Phone*: 559-600-7895 Fax*: 600-7621
 E-mail: rsingh@fresnocountyca.gov

Address*: 4553 E. Hamilton Ave Bldg #413
 Project: ATP-West Park Pedestrian Path
 Project #: D29900
 Reporting Options:
 Trace (J-Flag) Swamp EDD Type: _____
 SWRCB (Drinking Water) Fresno Co
 Merced Co Tulare Co
 Madera Co Other: _____
 Sampler Name (Printed/Signature)*: Steve Deis
 Matrix Types: SW=Surface Water BW=Battled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Soil
 How would you like to receive your completed results?
 E-Mail Fax Mail
 Regulatory Compliance
 EDT to California SWRCB (Drinking Water)
 System Number: _____
 Geotracker #: _____

#	Sample Description*	Sampled*		Matrix*	Comments / Station Code / WTRAX	Total Lead By EPA 6010		STLC Decision		Asbestos 600/R-93/116	
		Date	Time								
1	B1-1, 100 ft. E/O Valentine Ave, E/B Shoulder, 0-6" (so)	5/20/22	12:05 PM	SO		X	X	X	X		
2	B1-2 100 ft. E/O Valentine Ave, E/B Shoulder, 6-12" (sc)	5/20/22	12:05 PM	SO		X	X	X	X		
3	B2-1 200 ft. N/O Jensen Ave, N/B Shoulder, 0-6" (soil)	5/20/22	11:50 AM	SO		X	X	X	X		
4	B2-2 200 ft. N/O Jensen Ave, N/B Shoulder, 6-12" (soil)	5/20/22	11:50 AM	SO		X	X	X	X		
5	B3-1 1100 ft. S/O Annadale Ave, N/B Shoulder, 0-6" (sc)	5/20/22	12:20 PM	SO		X	X	X	X		
6	B3-2 1100 ft. S/O Annadale Ave, N/B Shoulder, 6-12" (sc)	5/20/22	12:20 PM	SO		X	X	X	X		
7	B4-1 1300 ft. S/O Annadale Ave, N/B Shoulder, 0-6" (sc)	5/20/22	12:30 PM	SO		X	X	X	X		
8	B4-2 1300 ft. S/O Annadale Ave, N/B shoulder, 6-12" (sc)	5/20/22	12:30 PM	SO		X	X	X	X		
9											

Relinquished by* (Signature and Printed Name): Stephen Polfer
 Company: Company
 Date: Date
 Received by* (Signature and Printed Name):
 Date: Date
 Payment Received at Delivery: Date: Date
 Shipping Method: ONTRAC UPS None
 Coding Method: Wet Blue
 GSO WATRCKM
 FED EX Courier: SASA
 Date: 5/23/22 Time: 1:30z
 Payment Received at Delivery: Date: Date
 Amount: PIA#: Check / Cash
 Chilling Process Begun: Y/N
 Custody Seal: Y/N

Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BS&K's current Standard Terms and Conditions for Laboratory Services. The person signing for the client/company acknowledges that they are either the client or an authorized agent to the client, that the client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BS&K's terms and conditions for laboratory services unless contractually bound otherwise. BS&K's current terms and conditions can be found at www.bs&kassociates.com/STKLabTermsConditions.pdf