CALIFORNIA
RESOURCES CORPORATION

June 15, 2015

TRANSMITTED VIA EMAIL THEN U.S. MAIL
ronald.holcomb@waterboards.ca.gov

Mr. Ronald Holcomb
Central Valley Regional Water Quality Control Board
1685 E Street
Fresno, California 93706

Dear Mr. Holcomb:

Enclosed please find a hard copy and one electronic copy of a technical report, titled "*Report of Sampling, Mount Poso Oil Field Jones Lease Ponds and McDonald Anticline Oil Field Layman Lease Units, Bakersfield, California*," prepared by BSK Associates on behalf of California Resources Production Corporation.

This technical report has been prepared in response to the Central Valley Regional Water Quality Control Board (Board) letter dated April 1, 2015 , California Water Code Directive Pursuant to Section 13267 (Order). The enclosed technical report conforms to the requirements of Water Code Section 13267 and contains the information requested in the Order. This letter also presents the required "certification" language.

I certify under penalty of law that this document and all its attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

CRC is committed to working constructively with the Board to address this issue. CRC is available to discuss the contents of the enclosed technical report and supporting documentation at the Board's convenience.

Sincerely,

Joey Barulich
HSE Manager

Enclosure(s)

BSK Associates
Engineers & Laboratories

TECHNICAL REPORT OF SAMPLING
MOUNT POSO OIL FIELD JONES LEASE PONDS AND MCDONALD ANTICLINE OIL FIELD LAYMAN LEASE UNITS
BAKERSFIELD, CALIFORNIA

BSK PROJECTS E15-026-01F AND E15-027-01F

PREPARED FOR:

CENTRAL VALLEY REGIONAL WATER QUALITY CONTROL BOARD
1685 E STREET
FRESNO, CALIFORNIA

JUNE 15, 2015

REPORT OF SAMPLING
MOUNT POSO OIL FIELD JONES LEASE PONDS
AND MCDONALD ANTICLINE OIL FIELD LAYMAN LEASE UNITS
BAKERSFIELD, CALIFORNIA

Prepared for:

Mr. Ronald Holcomb
Central Valley Regional Water Quality Control Board
1685 E Street
Fresno, California
BSK Project E15-027-01F

June 15, 2015

Prepared by:

FOR

Carly Rozell, EIT
Staff Engineer

Amer Hussain, P.E.
Vice President

BSK Associates
550 W. Locust Ave
Fresno, CA 93650-
(559) 497-2880
(559) 497-2886 FAX
www.bskassociates.com

Distribution: Mr. Ronald Holcomb, Central Valley Regional Water Quality Control Board (Hard copy and email)
Mr. Thomas Mele, CRC (email)

BSK

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BSK

1.0 INTRODUCTION

On behalf of California Resources Production Company (CRPC), BSK Associates (BSK) has prepared this Technical Report (Report) to provide information in response to the Central Valley Regional Water Quality Control Board (Central Valley Water Board) April 1, 2015 *Order Pursuant to California Water Code Section 13267* (Order). The Order indicated that CRPC had been identified as the owner or operator of petroleum production water disposal ponds (ponds). The Order requested that CRPC collect and analyze produced water samples from each of these ponds. The ponds subject to the Order were identified by oil field and lease. Two ponds were identified in the Mount Poso Oil Field on the Jones lease, and two fully enclosed units (units) were identified in the McDonald Anticline Oil Field on the Layman lease. Both fields are located in Kern County, California (Figures 1 through 4). This Report documents sampling procedures and findings associated with analytical testing of water at the Mount Poso Jones lease ponds and McDonald Anticline Layman lease units.

The Order also requested CRPC identify "*any discharges of oil field produced waters to land; including but not limited to ponds, since April 2014 that are not listed in Attachment A.*" A review of CRPC files indicated that one additional discharge to land was identified to occur at the Kern Front Oil Field North Treatment Plant Pond. It is the interpretation of CRPC that concrete-lined fully enclosed units (oil-water separators) as defined in CCR Title 27, Section 20090(i) are not considered a discharge to land and are not included in this Report, with the exception of the requested facilities at McDonald Anticline. Also not included in this Report are discharges covered under existing WDR permits at Kern Front Section 23 ponds (WDR Order #74-234) and Kern Front Oil Field (WDR Order #R5-2007-0155).

This Report includes Site Plans and Aerial Maps that identify the unlined ponds and lease boundaries associated with the facility (Figures 1 through 6), and photographs of sampling procedures (Figures 7 and 8). Figures 1 through 6 were developed using the Division of Oil, Gas, and Geothermal Resources (DOGGR) District 4 maps and Google Earth. Table 1 summarizes the analytical results of the samples collected from each pond. Copies of laboratory reports and chain-of-custody documents are included in the Appendix.

2.0 SITE DESCRIPTION

The following sections describe the ponds and units that were identified in the Order by the oil fields and leases where they are located.

2.1 Mount Poso Jones Lease Ponds

The Central Valley Water Board identified two ponds in the Order associated with the Mount Poso Oil Field Jones lease. The larger Jones lease pond identified in the Order is located approximately 0.6 miles northeast of the intersection of Famoso Road and Tule Road and is associated with Kern County assessor parcel number (APN) 067-071-39. This pond is covered by WDR Order R5-2006-0050. The pond is located in Section 29, Township 26 South, Range 28 East, Mount Diablo baseline and meridian (MDBM) (Figures 1 and 2). The location coordinates for the pond are latitude 35.63219, longitude -118.97909. The pond is approximately 256 feet-long by 191 feet-wide and approximately 10 feet-deep.

Review of CRPC information indicated that between April 2014 and April 1, 2015, approximately 7.6 million barrels (one barrel is approximately 42 U.S. gallons) of wastewater were discharged into the larger Jones pond.

The smaller Jones lease pond as described and identified in the Order is adjacent to the larger Jones pond and is approximately 96 feet-long by 28 feet-wide including the berm and is approximately 5 feet-deep at its lowest point. Review of CRPC information indicated that this facility is part of secondary containment or spill control for the tank setting on the hill immediately above. There is no record of use of this pond as an impoundment and the pond was dry during the sampling event conducted at the larger Jones pond.

2.2 McDonald Anticline Layman Lease Units

The two McDonald Anticline Layman lease concrete-lined fully enclosed units are located approximately 7 miles west of the West Side Highway (State Highway 33) and are associated with Kern County APN 085-140-01-00-3. The units are located in Section 18, Township 28 South, Range 20 East, MDBM (Figures 3 and 4). The location coordinates for the units are latitude 35.48788, longitude -119.85524. These units are covered by WDR Order 58-502.

The Layman lease units are connected in series (i.e., the east unit drains directly into the west unit with no other source of inflow) and are each approximately 29 feet-long by 17 feet-wide and approximately 8 feet-deep.

Review of CRPC information indicated that approximately 10 gallons of fluid per day (gpd) is discharged into the McDonald Anticline Layman lease units. Once per week, the water level within the units is raised for skimming by discharging an additional approximately 15 barrels of fluid into the units. The sample was collected from the in-process production fluids associated with the oil/water separator.

2.3 Additional Discharges to Land

As required by the Order, CRPC identified one additional location where production water was discharged to land that occurred since April 2014. The discharge location was at the Kern Front Oil Field North Treatment Plant (NTP) pond. The pond is currently dry and not in use.

The Kern Front Oil Field NTP pond, located within the Section 11 lease, is associated with Kern County APN 481-012-29 and is located in Section 11, Township 28 South, Range 27 East, MDBM (Figures 5 and 6). The location coordinates for the pond are latitude 35.50420, longitude -119.04196. The pond is approximately 100 feet-long by 90 feet-wide and is approximately 8 feet-deep. Review of CRPC information indicated that approximately 200 barrels of produced water was discharged into the pond due to a single emergency event that resulted in the overflow from the NTP Skim Water Tank T-17. This was the only discharge of produced water discharged into the pond between April 1, 2014 and April 1, 2015.

3.0 PRODUCED WATER SAMPLING PROCEDURES

BSK conducted water sampling activities at the Mount Poso Oil Field Jones lease larger pond on April 27, 2015. A grab sample was collected using a 12-foot stainless-steel pole with a chemical-resistant polypropylene sampling head and a detachable 3-liter polypropylene container. A sample was collected from the southwest corner of the pond approximately 10 feet from the discharge inlet (Figure 7). The sample was collected near the discharge inlet to obtain a representative sample of the source water discharging into the surface impoundment. Liquid in the pond appeared to be generally homogeneous throughout the pond, therefore the sampling container was submerged in the pond beneath the water surface. Following submersion, the sample container opening was remotely triggered and the container filled. The water sample was collected in new, laboratory-provided sample containers. The sample was transferred by holding the mouth of the sample container beneath the discharge from the sampling container such that the opening of the water sample container did not contact the discharge or the sampler. Sample containers were filled to the level recommended by the laboratory.

BSK conducted water sampling activities at the McDonald Anticline Layman lease units on May 13, 2015. A sample was collected in the same manner as indicated above. The sample was collected from the southwest corner of the eastern-most unit (the upstream unit) approximately 2 feet from the discharge inlet (Figure 8). Again, the sample was collected near the discharge inlet to obtain a representative sample of the source discharging into the unit. Liquid in the unit appeared to be generally homogeneous throughout the unit, therefore the sampling pole was submerged beneath the water surface. The sample was collected in new, laboratory-provided sample containers. The sample was

transferred by holding the mouth of the sample container beneath the discharge from the polypropylene container such that the opening of the water sample container did not contact the discharge or the sampler. Sample containers were filled to the level recommended by the laboratory.

The sample number, sample location, date and time of collection, and other pertinent information were documented on sample container labels and chain of custody documents. Samples were placed in a chilled ice chest and transported to BSK Analytical Laboratories, in Fresno, California, for analysis. BSK Analytical Laboratories is certified as an Environmental Laboratory Accredited Program (ELAP).

4.0 ANALYTICAL DATA

The water samples were analyzed for the following list of constituents/properties using current applicable EPA-approved analytical methods:

- Total Dissolved Solids (TDS);
- Metals listed in California Code of Regulations, Title 22, Sec 66261.24, Subdivision (a)(2)(A);
- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX);
- Total Petroleum Hydrocarbons (TPH), Crude Oil Range Hydrocarbons;
- Polynuclear Aromatic Hydrocarbons (PAHs), including acenaphthene, acenaphthylene, anthracene, benzo[a]anthracene, benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, dibenzo[a,h]anthracene, fluoranthene, fluorene, indeno[1,2,3-cd]pyrene, naphthalene, phenanthrene, and pyrene;
- Radionuclides listed under California Code of Regulations, Title 22, Table 64442;
- Major and Minor Cations (including sodium, potassium, magnesium, and calcium);
- Major and Minor Anions (including nitrate, chloride, sulfate, alkalinity, and bromide); and
- Trace Elements (including lithium, strontium, and boron).

Analytical methods, laboratory detection limits, and results of laboratory quality-control procedures are indicated on the attached laboratory reports (Appendix). The laboratories listed the sample matrix as “surface water” however the samples were produced water from oil field operations.

Due to the required time for laboratory analytical testing for Lithium, Radium 226, and Radium 228, the results for these constituents for the McDonald Anticline Layman Units will be included in an addendum to follow.

Analytes (Units)	TABLE 1: SAMPLE ANALYTICAL RESULTS			
	POND ID			
	McDonald Anticline Layman Lease Pond		Mount Poso Jones Lease Pond	
	Sample Date	Analytical Results	Sample Date	Analytical Results
General Chemistry				
Alkalinity (mg/L)	5/13/2015		4/27/2015	140
Bicarbonate as $CaCO_3$ (mg/L)	5/13/2015		4/27/2015	140
Carbonate as $CaCO_3$ (mg/L)	5/13/2015		4/27/2015	< 3.0
Hydroxide as $CaCO_3$ (mg/L)	5/13/2015		4/27/2015	< 3.0
Bromide (mg/L)	5/13/2015		4/27/2015	0.52
Chloride (mg/L)	5/13/2015		4/27/2015	120
Fluoride (mg/L)	5/13/2015		4/27/2015	0.67
Hexalvalent Chromium (mg/L)	5/13/2015		4/27/2015	< 0.20
Nitrate as NO_3 (mg/L)	5/13/2015		4/27/2015	< 5.0
Nitrite as N (mg/L)	5/13/2015		4/27/2015	< 0.25
Sulfate as SO_4 (mg/L)	5/13/2015		4/27/2015	130
Total Dissolved Solids (mg/L)	5/13/2015		4/27/2015	600
Metals				
Antimony (µg/L)	5/13/2015		4/27/2015	< 2.0
Arsenic (µg/L)	5/13/2015		4/27/2015	< 2.0
Barium (µg/L)	5/13/2015		4/27/2015	20
Berylium (µg/L)	5/13/2015		4/27/2015	< 1.0
Boron (mg/L)	5/13/2015		4/27/2015	0.9
Cadmium (µg/L)	5/13/2015		4/27/2015	< 1.0
Calcium (mg/L)	5/13/2015		4/27/2015	29
Chromium (µg/L)	5/13/2015		4/27/2015	< 10
Cobalt (µg/L)	5/13/2015		4/27/2015	< 10

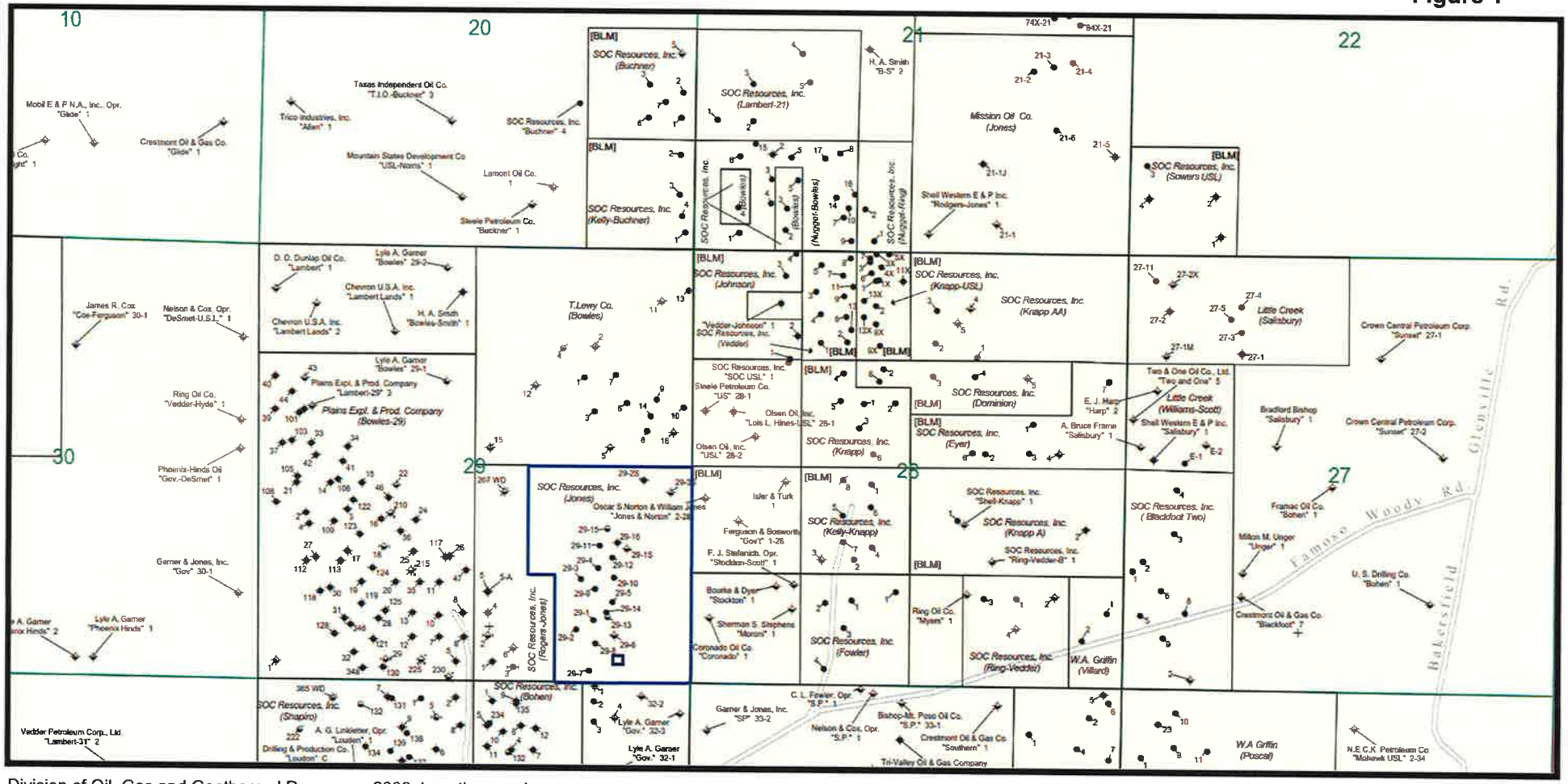
Analytes (Units)	TABLE 1: SAMPLE ANALYTICAL RESULTS			
	POND ID			
	McDonald Anticline Layman Lease Pond		Mount Poso Jones Lease Pond	
	Sample Date	Analytical Results	Sample Date	Analytical Results
Copper (µg/L)	5/13/2015		4/27/2015	< 5.0
Iron (mg/L)	5/13/2015		4/27/2015	< 0.030
Lead (µg/L)	5/13/2015		4/27/2015	< 5.0
Lithium (µg/L)	5/13/2015		4/27/2015	35
Magnesium (mg/L)	5/13/2015		4/27/2015	1.3
Manganese (mg/L)	5/13/2015		4/27/2015	0.022
Mercury (µg/L)	5/13/2015		4/27/2015	< 0.20
Molybdenum (µg/L)	5/13/2015		4/27/2015	< 10
Nickel (µg/L)	5/13/2015		4/27/2015	< 10
Potassium (mg/L)	5/13/2015		4/27/2015	2.9
Selenium (µg/L)	5/13/2015		4/27/2015	< 2.0
Silver (µg/L)	5/13/2015		4/27/2015	< 10
Sodium (mg/L)	5/13/2015		4/27/2015	180
Strontium (µg/L)	5/13/2015		4/27/2015	390
Thallium (µg/L)	5/13/2015		4/27/2015	< 1.0
Uranium (µg/L)	5/13/2015		4/27/2015	< 1.0
Uranium Radiological (pCi/L)	5/13/2015		4/27/2015	< 0.67
Vanadium (µg/L)	5/13/2015		4/27/2015	< 3.0
Zinc (µg/L)	5/13/2015		4/27/2015	< 50
Radiological				
Gross Alpha (pCi/L)	5/13/2015		4/27/2015	ND
MDA95 (pCi/L)	5/13/2015		4/27/2015	2.15
Radium-226 (pCi/L)	5/13/2015		4/27/2015	0.408
Radium-228 (pCi/L)	5/13/2015		4/27/2015	1.2

Analytes (Units)	TABLE 1: SAMPLE ANALYTICAL RESULTS			
	POND ID			
	McDonald Anticline Layman Lease Pond		Mount Poso Jones Lease Pond	
	Sample Date	Analytical Results	Sample Date	Analytical Results
Organics				
Total Volatile Organic Compounds (VOCs)				
Benzene (µg/L)	5/13/2015		4/27/2015	< 0.50
Ethylbenzene (µg/L)	5/13/2015		4/27/2015	< 0.50
m,p-Xylenes (µg/L)	5/13/2015		4/27/2015	< 0.50
o-Xylene (µg/L)	5/13/2015		4/27/2015	< 0.50
Toluene (µg/L)	5/13/2015		4/27/2015	< 0.50
Total Xylenes (µg/L)	5/13/2015		4/27/2015	< 0.50
Total Semi-Volatile Organic Compounds (Semi-VOCs)				
Acenapthene (µg/L)	5/13/2015		4/27/2015	< 0.20
Acenapthylene (µg/L)	5/13/2015		4/27/2015	< 0.20
Anthracene (µg/L)	5/13/2015		4/27/2015	< 0.20
Benzo(a)anthracene (µg/L)	5/13/2015		4/27/2015	< 0.20
Benzo(a)pyrene (µg/L)	5/13/2015		4/27/2015	< 0.20
Benzo(b)fluoranthene (µg/L)	5/13/2015		4/27/2015	< 0.20
Benzo(g,h,i)perylene (µg/L)	5/13/2015		4/27/2015	< 0.20
Benzo(k)fluoranthene (µg/L)	5/13/2015		4/27/2015	< 0.20
Chrysene (µg/L)	5/13/2015		4/27/2015	< 0.20
Dibenzo(a,h)anthracene (µg/L)	5/13/2015		4/27/2015	< 0.20
Fluoranthene (µg/L)	5/13/2015		4/27/2015	< 0.20
Fluorene (µg/L)	5/13/2015		4/27/2015	< 0.20
Indeno(1,2,3-cd)pyrene (µg/L)	5/13/2015		4/27/2015	< 0.20
Napthalene (µg/L)	5/13/2015		4/27/2015	< 0.20
Phenanthrene (µg/L)	5/13/2015		4/27/2015	< 0.20
Pyrene (µg/L)	5/13/2015		4/27/2015	< 0.20
Total Petroleum Hydrocarbons (TPH)				
TPH as Crude Oil (ug/L)	5/13/2015		4/27/2015	28,000

mg/L = Milligrams per liter
µg/L = Micrograms per liter
pCi/L = picocurries per liter

FIGURES

BSK E15-026-01F
BSK E15-027-01F
Figure 1



Division of Oil, Gas and Geothermal Resources 2008, Locations and dimensions are approximate

LEGEND

- Drilling
- Drilling - idle
- Plugged and abandoned - dry hole
- Completed - oil
- Idle - oil
- Plugged and abandoned - oil
- Completed - gas
- Idle - gas
- Plugged and abandoned - gas
- Completed - water disposal
- Completed - waterflood
- Buried idle
- Abandoned - conductor
- Gas injection
- Gas - open to oil zone
- Buried idle
- Abandoned - conductor
- Gas injection
- Gas - open to oil zone
- Water source
- Plugged and abandoned - oil and gas
- Gas storage
- Observation
- Gas - converted to water disposal
- Abandoned oil - converted to water disposal
- Field boundary
- Lease boundary
- Surveyed section
- Projected section
- Mount Poso Jones Ponds
- Mount Poso Jones Lease

NOTES:
1. Wells with directional surveys on file with the division are indicated with a short line under the well symbol
2. Current well status should be confirmed at the appropriate division office.
3. The above set of well symbols represent a general cast of symbols used by DOGGR. Not every symbol will appear on a given map.
4. For a complete index of Division maps see publication PRTS.

MOUNT POSO JONES SITE PLAN

BAKERSFIELD, CALIFORNIA

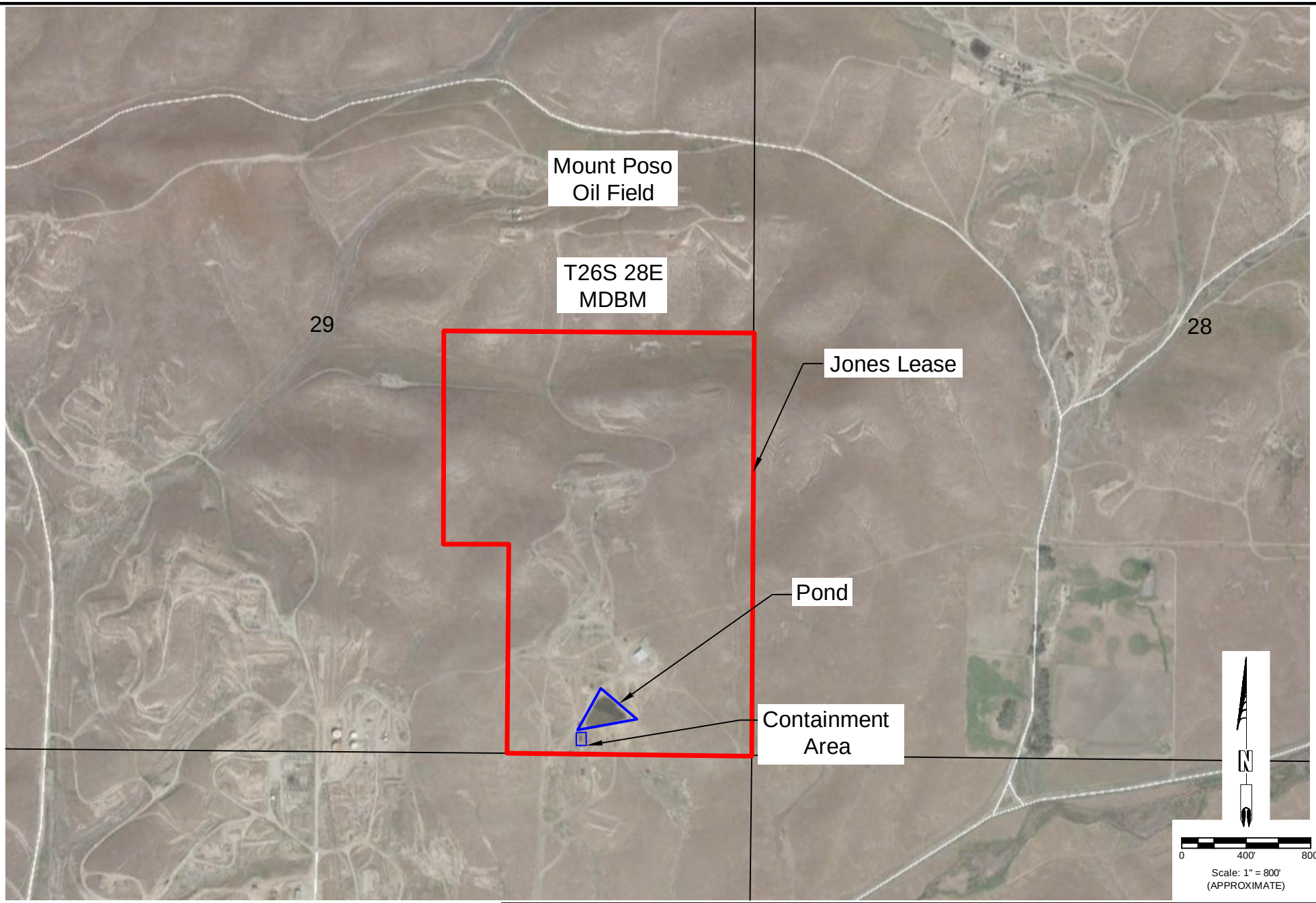
N

Approx. Scale (miles)

0 0.25 0.50

BSK

CER 5/29/15



LEGEND:

- Jones Lease Boundary
- Pond Boundary

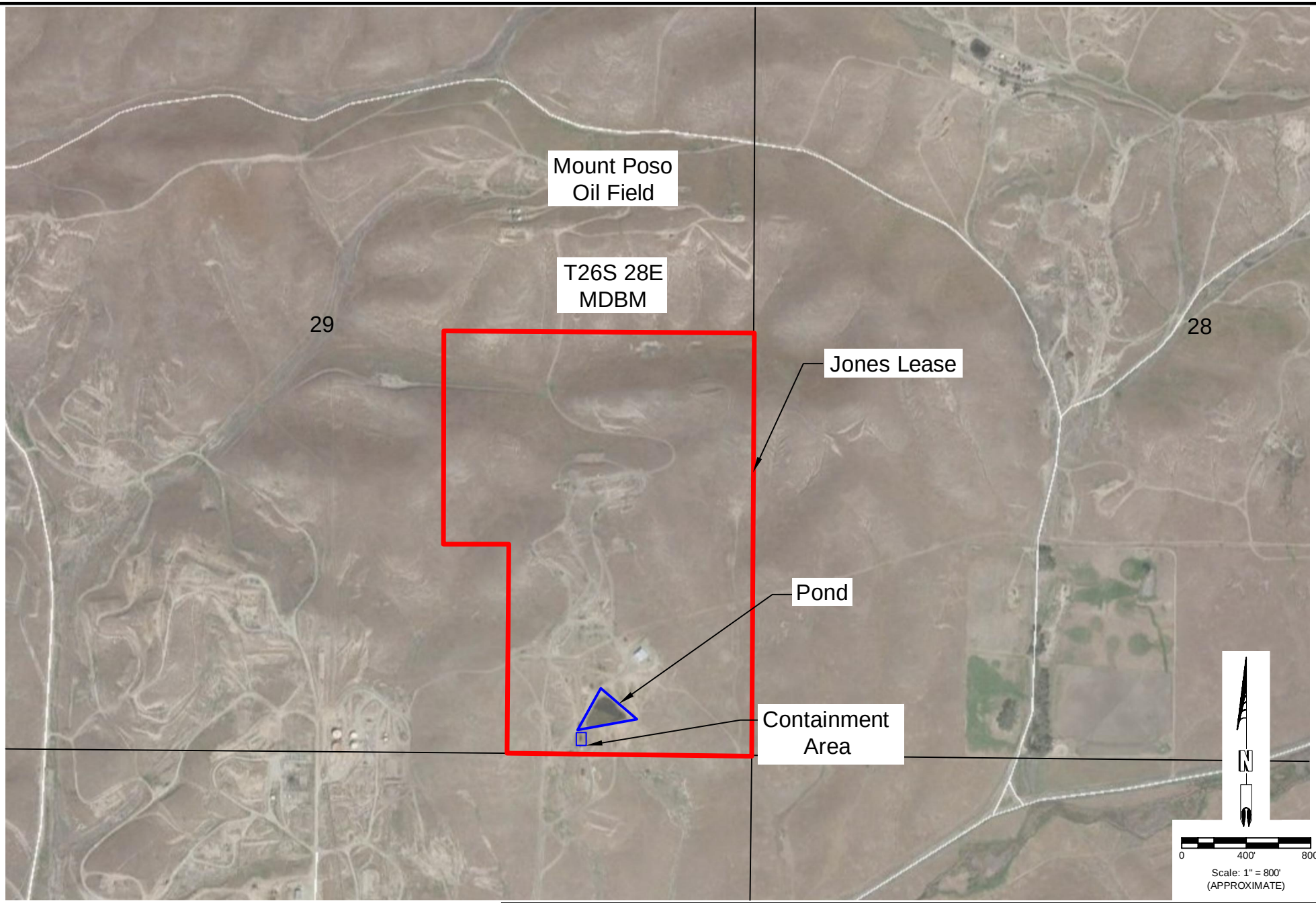
BSK
550 West Locust Avenue
Fresno, California 93650
Tel. (559) 497-2880

Mount Poso Jones Pond Aerial Map

Mount Poso Oil Field
Kern County, California

FIGURE 2

JOB NO. E15-026-01F
DATE June 15, 2015
DR. BY JEG
CH. BY
SHEET NO. 1
OF 1 SHEETS



LEGEND:

- Jones Lease Boundary
- Pond Boundary

BSK
550 West Locust Avenue
Fresno, California 93650
Tel. (559) 497-2880

Mount Poso Jones Pond Aerial Map

Mount Poso Oil Field
Kern County, California

FIGURE 2

JOB NO. E15-026-01F
DATE June 15, 2015
DR. BY JEG
CH. BY
SHEET NO. 1
OF 1 SHEETS

APPENDIX

Analytical Data and
Chain-of-Custody Documentation

BSK Associates Fresno
1414 Stanislaus St
Fresno, CA93706
559-497-2888 (Main)
559-485-6935 (FAX)

A5D2476
6/15/2015
Invoice: A510737
Amended Report

Ken Mitchell
BSK Associates - Bakersfield
700 22nd Street
Bakersfield, CA 93301

RE: Report for A5D2476 RWQCB Order

Dear Ken Mitchell,

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 4/28/2015. 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 2009 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.

If additional clarification of any information is required, please contact your Project Manager, John Montierth , at (800) 877-8310 or (559) 497-2888 x201.

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

Sincerely,

Kasanna Coulter, Quality Assurance Manager

Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

Project and Report Details		Invoice Details	
Client:	BSK Associates - Bakersfield	**Invoice To:**	BSK Associates - Bakersfield
Report To:	Ken Mitchell	**Invoice Attn:**	Ken Mitchell
Project #:	E15-026-01F Ph 002	**Project PO#:**	-
Received:	4/28/2015 - 15:36		
Report Due:	6/10/2015		

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt ºC: 0.8

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

Detailed Narrative

Report Amendments

Date: 6/12/15

Initials: JMM

This amended report supersedes any previous reports issued by the laboratory. Amendments to this report are as follows: Per client request, change project name to RWQCB Order and change sample ID to Mount Poso Pond.

Data Qualifiers

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

DL1.0	Sample required a dilution due to the matrix or high concentration of a non-target analyte.
DP1.1	Sample Duplicate RPD exceeded method acceptance criteria.
DQ.x	Filtered through C18 filter due to sample matrix.
SR4.1	Surrogate compound diluted outside of quantitation range due to matrix interferences. Recovery data unavailable or unreliable due to dilution.

Report Distribution

Recipient(s)	Report Format	CC:
Ken Mitchell	FINAL.RPT	crozell@bskinc.com

Certificate of Analysis

Sample ID: A5D2476-01
Sampled By: Logan Prosser
Sample Description: Mount Poso Pond

Sample Date - Time: 04/27/15 - 10:45
Matrix: Surface Water
Sample Type: Grab

BSK Associates Fresno

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Alkalinity as CaCO3	SM 2320B	**140**	3.0	mg/L	1	A504957	05/06/15	05/06/15	
Bicarbonate as CaCO3	SM 2320B	**140**	3.0	mg/L	1	A504957	05/06/15	05/06/15	
Carbonate as CaCO3	SM 2320B	ND	3.0	mg/L	1	A504957	05/06/15	05/06/15	
Hydroxide as CaCO3	SM 2320B	ND	3.0	mg/L	1	A504957	05/06/15	05/06/15	
Bromide	EPA 300.1	**0.52**	0.025	mg/L	5	A504827	05/02/15	05/02/15	
Surrogate: Dichloroacetate	EPA 300.1	96 %	*Acceptable range: 90-115 %*						
Chloride	EPA 300.0	**120**	5.0	mg/L	5	A504709	04/28/15	04/28/15	DQ.x
Fluoride	EPA 300.0	**0.67**	0.50	mg/L	5	A504709	04/28/15	04/28/15	DQ.x
Hexavalent Chromium	EPA 218.6	ND	0.20	ug/L	1	A504733	04/29/15	04/29/15	
Nitrate as NO3	EPA 300.0	ND	5.0	mg/L	5	A504709	04/28/15 21:33	04/28/15	DL1.0, DQ.x
Nitrite as N	EPA 300.0	ND	0.25	mg/L	5	A504709	04/28/15 21:33	04/28/15	DL1.0, DQ.x
Sulfate as SO4	EPA 300.0	**130**	5.0	mg/L	5	A504709	04/28/15	04/28/15	DQ.x
Total Dissolved Solids	SM 2540C	**600**	5.0	mg/L	1	A504720	04/29/15	05/01/15	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Antimony	EPA 200.8	ND	2.0	ug/L	1	A504744	04/29/15	05/07/15	
Arsenic	EPA 200.8	ND	2.0	ug/L	1	A504744	04/29/15	05/07/15	
Barium	EPA 200.8	**20**	5.0	ug/L	1	A504744	04/29/15	05/07/15	
Beryllium	EPA 200.8	ND	1.0	ug/L	1	A504744	04/29/15	05/07/15	
Boron	EPA 200.7	**0.90**	0.10	mg/L	1	A504744	04/29/15	05/05/15	
Cadmium	EPA 200.8	ND	1.0	ug/L	1	A504744	04/29/15	05/07/15	
Calcium	EPA 200.7	**29**	0.10	mg/L	1	A504744	04/29/15	05/05/15	
Chromium	EPA 200.8	ND	10	ug/L	1	A504744	04/29/15	05/07/15	
Cobalt	EPA 200.8	ND	10	ug/L	1	A504744	04/29/15	05/07/15	
Copper	EPA 200.8	ND	5.0	ug/L	1	A504744	04/29/15	05/07/15	
Iron	EPA 200.7	ND	0.030	mg/L	1	A504744	04/29/15	05/05/15	
Lead	EPA 200.8	ND	5.0	ug/L	1	A504744	04/29/15	05/07/15	
Magnesium	EPA 200.7	**1.3**	0.10	mg/L	1	A504744	04/29/15	05/05/15	
Manganese	EPA 200.7	**0.022**	0.010	mg/L	1	A504744	04/29/15	05/05/15	
Mercury	EPA 200.8	ND	0.20	ug/L	1	A504744	04/29/15	05/08/15	
Molybdenum	EPA 200.8	ND	10	ug/L	1	A504744	04/29/15	05/07/15	
Nickel	EPA 200.8	ND	10	ug/L	1	A504744	04/29/15	05/07/15	
Potassium	EPA 200.7	**2.9**	2.0	mg/L	1	A504744	04/29/15	05/05/15	
Selenium	EPA 200.8	ND	2.0	ug/L	1	A504744	04/29/15	05/07/15	
Silver	EPA 200.8	ND	10	ug/L	1	A504744	04/29/15	05/07/15	
Sodium	EPA 200.7	**180**	1.0	mg/L	1	A504744	04/29/15	05/05/15	
Strontium	EPA 200.8	**390**	1.0	ug/L	1	A504744	04/29/15	05/07/15	
Thallium	EPA 200.8	ND	1.0	ug/L	1	A504744	04/29/15	05/08/15	
Uranium	EPA 200.8	ND	1.0	ug/L	1	A504744	04/29/15	05/07/15	
Uranium, Radiological		**< 0.67**		pCi/L					

Certificate of Analysis

Sample ID: A5D2476-01
Sampled By: Logan Prosser
Sample Description: Mount Poso Pond

Sample Date - Time: 04/27/15 - 10:45
Matrix: Surface Water
Sample Type: Grab

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Vanadium	EPA 200.8	ND	3.0	ug/L	1	A504744	04/29/15	05/07/15	
Zinc	EPA 200.8	ND	50	ug/L	1	A504744	04/29/15	05/07/15	

Radiological

Analyte	Method	Result	Units	Batch	Prepared	Analyzed	Qual
Gross Alpha	SM 7110C	ND	pCi/L	A504872	05/05/15	05/06/15	
1.65 Sigma Uncertainty		**0.191**	±				
MDA95		**2.15**	pCi/L				

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Volatile Organics (BTEX/MTBE) by GC-MS									
Benzene	EPA 8260B	ND	0.50	ug/L	1	A504684	04/29/15	04/29/15	
Ethylbenzene	EPA 8260B	ND	0.50	ug/L	1	A504684	04/29/15	04/29/15	
m,p-Xylenes	EPA 8260B	ND	0.50	ug/L	1	A504684	04/29/15	04/29/15	
o-Xylene	EPA 8260B	ND	0.50	ug/L	1	A504684	04/29/15	04/29/15	
Toluene	EPA 8260B	ND	0.50	ug/L	1	A504684	04/29/15	04/29/15	
Surrogate: 1,2-Dichloroethane-d4	EPA 8260B	106 %	*Acceptable range: 70-130 %*						
Surrogate: Bromofluorobenzene	EPA 8260B	82 %	*Acceptable range: 70-130 %*						
Surrogate: Toluene-d8	EPA 8260B	113 %	*Acceptable range: 70-130 %*						
Total Xylenes, EPA 8260B		ND	0.50	ug/L					
Semi-Volatile Organics (PAHs, 8100 List) by GC-MS								**Analysis Qualifier(s): DL1.0**	
Acenaphthene	EPA 8270C	ND	0.20	ug/L	20	A504860	05/03/15	05/12/15	
Acenaphthylene	EPA 8270C	ND	0.20	ug/L	20	A504860	05/03/15	05/12/15	
Anthracene	EPA 8270C	ND	0.20	ug/L	20	A504860	05/03/15	05/12/15	
Benzo(a)anthracene	EPA 8270C	ND	0.20	ug/L	20	A504860	05/03/15	05/12/15	
Benzo(a)pyrene	EPA 8270C	ND	0.20	ug/L	20	A504860	05/03/15	05/12/15	
Benzo(b)fluoranthene	EPA 8270C	ND	0.20	ug/L	20	A504860	05/03/15	05/12/15	
Benzo(g,h,i)perylene	EPA 8270C	ND	0.20	ug/L	20	A504860	05/03/15	05/12/15	
Benzo(k)fluoranthene	EPA 8270C	ND	0.20	ug/L	20	A504860	05/03/15	05/12/15	
Chrysene	EPA 8270C	ND	0.20	ug/L	20	A504860	05/03/15	05/12/15	
Dibenzo(a,h)anthracene	EPA 8270C	ND	0.20	ug/L	20	A504860	05/03/15	05/12/15	
Fluoranthene	EPA 8270C	ND	0.20	ug/L	20	A504860	05/03/15	05/12/15	
Fluorene	EPA 8270C	ND	0.20	ug/L	20	A504860	05/03/15	05/12/15	
Indeno(1,2,3-cd)pyrene	EPA 8270C	ND	0.20	ug/L	20	A504860	05/03/15	05/12/15	
Naphthalene	EPA 8270C	ND	0.20	ug/L	20	A504860	05/03/15	05/12/15	
Phenanthrene	EPA 8270C	ND	0.20	ug/L	20	A504860	05/03/15	05/12/15	
Pyrene	EPA 8270C	ND	0.20	ug/L	20	A504860	05/03/15	05/12/15	
Surrogate: 2-Fluorobiphenyl	EPA 8270C	49 %	*Acceptable range: 40-127 %*						
Surrogate: Nitrobenzene-d5	EPA 8270C	99 %	*Acceptable range: 49-133 %*						
Surrogate: p-Terphenyl-d14	EPA 8270C	92 %	*Acceptable range: 39-135 %*						

Certificate of Analysis

Sample ID: A5D2476-01
Sampled By: Logan Prosser
Sample Description: Mount Poso Pond

Sample Date - Time: 04/27/15 - 10:45
Matrix: Surface Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
TPH-Crude Oil (SGT) by GC-FID									
Crude Oil Range Hydrocarbons	EPA 8015B (SGT)	**28000**	2000	ug/L	20	A505066	05/07/15	05/14/15	
Surrogate: Tetracosane	EPA 8015B (SGT)	194 %	*Acceptable range: 50-150 %*			*Qualifiers - SR4.1*			

BSK Associates Fresno
General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 218.6 - Quality Control											
Batch: A504733										Prepared: 4/29/2015	
Prep Method: Method Specific Preparation										Analyst: RCN	
Blank (A504733-BLK1)											
Hexavalent Chromium	ND	0.20	ug/L							04/29/15	
Blank Spike (A504733-BS1)											
Hexavalent Chromium	2.0	0.20	ug/L	2.0		100	90-110			04/29/15	
Blank Spike Dup (A504733-BSD1)											
Hexavalent Chromium	2.0	0.20	ug/L	2.0		100	90-110	0	10	04/29/15	
Matrix Spike (A504733-MS1), Source: A5D2388-03											
Hexavalent Chromium	1.9	0.20	ug/L	2.0	ND	95	90-110			04/29/15	
Matrix Spike Dup (A504733-MSD1), Source: A5D2388-03											
Hexavalent Chromium	2.0	0.20	ug/L	2.0	ND	99	90-110	5	10	04/29/15	
EPA 300.0 - Quality Control											
Batch: A504709										Prepared: 4/28/2015	
Prep Method: Method Specific Preparation										Analyst: EMH	
Blank (A504709-BLK1)											
Chloride	ND	1.0	mg/L							04/28/15	
Fluoride	ND	0.10	mg/L							04/28/15	
Nitrate as NO3	ND	1.0	mg/L							04/28/15	
Nitrite as N	ND	0.050	mg/L							04/28/15	
Sulfate as SO4	ND	1.0	mg/L							04/28/15	
Blank (A504709-BLK2)											
Chloride	ND	1.0	mg/L							04/28/15	DQ.x
Fluoride	ND	0.10	mg/L							04/28/15	DQ.x
Nitrate as NO3	ND	1.0	mg/L							04/28/15	DQ.x
Nitrite as N	ND	0.050	mg/L							04/28/15	DQ.x
Sulfate as SO4	ND	1.0	mg/L							04/28/15	DQ.x
Blank Spike (A504709-BS1)											
Chloride	50	1.0	mg/L	50		100	90-110			04/28/15	
Fluoride	0.49	0.10	mg/L	0.50		98	90-110			04/28/15	
Nitrate as NO3	51	1.0	mg/L	50		101	90-110			04/28/15	
Nitrite as N	0.49	0.050	mg/L	0.50		99	90-110			04/28/15	
Sulfate as SO4	50	1.0	mg/L	50		101	90-110			04/28/15	
Blank Spike Dup (A504709-BSD1)											
Chloride	50	1.0	mg/L	50		99	90-110	0	20	04/28/15	
Fluoride	0.49	0.10	mg/L	0.50		97	90-110	1	10	04/28/15	
Nitrate as NO3	51	1.0	mg/L	50		101	90-110	0	20	04/28/15	
Nitrite as N	0.49	0.050	mg/L	0.50		98	90-110	0	20	04/28/15	
Sulfate as SO4	50	1.0	mg/L	50		101	90-110	0	20	04/28/15	

BSK Associates Fresno
General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.0 - Quality Control											
Batch: A504709										Prepared: 4/28/2015	
Prep Method: Method Specific Preparation										Analyst: EMH	
EPA 300.1 - Quality Control											
Batch: A504827										Prepared: 5/1/2015	
Prep Method: Method Specific Preparation										Analyst: TRL	
Blank (A504827-BLK1)											
Bromide	ND	0.0050	mg/L							05/01/15	
Surrogate: Dichloroacetate	*0.489*			*0.50*		*98*	*90-115*			05/01/15	
Blank Spike (A504827-BS1)											
Bromide	0.20	0.0050	mg/L	0.20		100	85-115			05/01/15	
Surrogate: Dichloroacetate	*0.488*			*0.50*		*98*	*90-115*			05/01/15	
Blank Spike Dup (A504827-BSD1)											
Bromide	0.20	0.0050	mg/L	0.20		99	85-115	1	10	05/01/15	
Surrogate: Dichloroacetate	*0.482*			*0.50*		*96*	*90-115*			05/01/15	
Matrix Spike (A504827-MS1), Source: A5D2677-01											
Bromide	0.20	0.010	mg/L	0.20	ND	100	75-125			05/01/15	
Surrogate: Dichloroacetate	*1.05*			*1.0*		*105*	*90-115*			05/01/15	
Matrix Spike (A504827-MS2), Source: A5D2591-02											
Bromide	0.20	0.010	mg/L	0.20	ND	99	75-125			05/02/15	
Surrogate: Dichloroacetate	*0.983*			*1.0*		*98*	*90-115*			05/02/15	
Matrix Spike Dup (A504827-MSD1), Source: A5D2677-01											
Bromide	0.20	0.010	mg/L	0.20	ND	99	75-125	0	10	05/01/15	
Surrogate: Dichloroacetate	*0.981*			*1.0*		*98*	*90-115*			05/01/15	
Matrix Spike Dup (A504827-MSD2), Source: A5D2591-02											
Bromide	0.21	0.010	mg/L	0.20	ND	101	75-125	2	10	05/02/15	
Surrogate: Dichloroacetate	*0.999*			*1.0*		*100*	*90-115*			05/02/15	
SM 2320B - Quality Control											
Batch: A504957										Prepared: 5/6/2015	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A504957-BLK1)											
Alkalinity as CaCO3	ND	3.0	mg/L							05/06/15	
Bicarbonate as CaCO3	ND	3.0	mg/L							05/06/15	
Carbonate as CaCO3	ND	3.0	mg/L							05/06/15	
Hydroxide as CaCO3	ND	3.0	mg/L							05/06/15	
Blank Spike (A504957-BS1)											
Alkalinity as CaCO3	93	3.0	mg/L	100		93	80-120			05/06/15	

BSK Associates Fresno
General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 2320B - Quality Control											
Batch: A504957										Prepared: 5/6/2015	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank Spike Dup (A504957-BSD1)											
Alkalinity as CaCO3	93	3.0	mg/L	100		93	80-120	0	20	05/06/15	
Duplicate (A504957-DUP1), Source: A5D2591-01											
Alkalinity as CaCO3	150	3.0	mg/L		150			0	10	05/06/15	
Bicarbonate as CaCO3	150	3.0	mg/L		150			0	10	05/06/15	
Carbonate as CaCO3	ND	3.0	mg/L		ND				10	05/06/15	
Hydroxide as CaCO3	ND	3.0	mg/L		ND				10	05/06/15	
Duplicate (A504957-DUP2), Source: A5E0161-08											
Alkalinity as CaCO3	100	3.0	mg/L		120			14	10	05/06/15	DP1.1
Bicarbonate as CaCO3	100	3.0	mg/L		120			14	10	05/06/15	DP1.1
Carbonate as CaCO3	ND	3.0	mg/L		ND				10	05/06/15	
Hydroxide as CaCO3	ND	3.0	mg/L		ND				10	05/06/15	
SM 2540C - Quality Control											
Batch: A504720										Prepared: 4/29/2015	
Prep Method: Method Specific Preparation										Analyst: DEH	
Blank (A504720-BLK1)											
Total Dissolved Solids	ND	5.0	mg/L							05/01/15	
Blank Spike (A504720-BS1)											
Total Dissolved Solids	1000	5.0	mg/L	1000		100	70-130			05/01/15	
Duplicate (A504720-DUP1), Source: A5D2350-01											
Total Dissolved Solids	34	5.0	mg/L		32			6	20	05/01/15	

BSK Associates Fresno
Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.7 - Quality Control											
Batch: A504744										Prepared: 4/29/2015	
Prep Method: EPA 200.2										Analyst: NYY	
Blank (A504744-BLK2)											
Boron	ND	0.10	mg/L							05/05/15	
Calcium	ND	0.10	mg/L							05/05/15	
Iron	ND	0.030	mg/L							05/05/15	
Magnesium	ND	0.10	mg/L							05/05/15	
Manganese	ND	0.010	mg/L							05/05/15	
Potassium	ND	2.0	mg/L							05/05/15	
Sodium	ND	1.0	mg/L							05/05/15	
Blank Spike (A504744-BS2)											
Boron	0.60	0.10	mg/L	0.60		101	85-115			05/05/15	
Calcium	9.8	0.10	mg/L	10		98	85-115			05/05/15	
Iron	2.0	0.030	mg/L	2.0		99	85-115			05/05/15	
Magnesium	9.7	0.10	mg/L	10		97	85-115			05/05/15	
Manganese	0.19	0.010	mg/L	0.20		96	85-115			05/05/15	
Potassium	10	2.0	mg/L	10		101	85-115			05/05/15	
Sodium	10	1.0	mg/L	10		100	85-115			05/05/15	
Blank Spike Dup (A504744-BSD2)											
Boron	0.60	0.10	mg/L	0.60		101	85-115	0	20	05/05/15	
Calcium	9.8	0.10	mg/L	10		98	85-115	1	20	05/05/15	
Iron	2.0	0.030	mg/L	2.0		98	85-115	1	20	05/05/15	
Magnesium	9.6	0.10	mg/L	10		96	85-115	1	20	05/05/15	
Manganese	0.19	0.010	mg/L	0.20		97	85-115	0	20	05/05/15	
Potassium	10	2.0	mg/L	10		102	85-115	1	20	05/05/15	
Sodium	10	1.0	mg/L	10		100	85-115	1	20	05/05/15	
Matrix Spike (A504744-MS3), Source: A5D2350-01											
Boron	0.65	0.10	mg/L	0.60	ND	98	70-130			05/05/15	
Calcium	14	0.10	mg/L	10	4.3	98	70-130			05/05/15	
Iron	2.1	0.030	mg/L	2.0	0.13	100	70-130			05/05/15	
Magnesium	11	0.10	mg/L	10	0.71	99	70-130			05/05/15	
Manganese	0.22	0.010	mg/L	0.20	0.021	99	70-130			05/05/15	
Potassium	11	2.0	mg/L	10	ND	102	70-130			05/05/15	
Sodium	15	1.0	mg/L	10	5.4	100	70-130			05/05/15	
Matrix Spike (A504744-MS4), Source: A5D2378-01											
Boron	1.1	0.10	mg/L	0.60	0.49	104	70-130			05/05/15	
Calcium	74	0.10	mg/L	10	63	103	70-130			05/05/15	
Iron	3.6	0.030	mg/L	2.0	1.6	97	70-130			05/05/15	
Magnesium	76	0.10	mg/L	10	66	97	70-130			05/05/15	
Manganese	0.23	0.010	mg/L	0.20	0.027	99	70-130			05/05/15	
Potassium	12	2.0	mg/L	10	2.1	100	70-130			05/05/15	
Sodium	58	1.0	mg/L	10	48	103	70-130			05/05/15	
Matrix Spike Dup (A504744-MSD3), Source: A5D2350-01											

BSK Associates Fresno
Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.7 - Quality Control											
Batch: A504744										Prepared: 4/29/2015	
Prep Method: EPA 200.2										Analyst: NYY	
Matrix Spike Dup (A504744-MSD3), Source: A5D2350-01											
Boron	0.64	0.10	mg/L	0.60	ND	96	70-130	3	20	05/05/15	
Calcium	14	0.10	mg/L	10	4.3	95	70-130	2	20	05/05/15	
Iron	2.0	0.030	mg/L	2.0	0.13	96	70-130	4	20	05/05/15	
Magnesium	10	0.10	mg/L	10	0.71	96	70-130	3	20	05/05/15	
Manganese	0.21	0.010	mg/L	0.20	0.021	96	70-130	3	20	05/05/15	
Potassium	11	2.0	mg/L	10	ND	99	70-130	3	20	05/05/15	
Sodium	15	1.0	mg/L	10	5.4	96	70-130	3	20	05/05/15	
Matrix Spike Dup (A504744-MSD4), Source: A5D2378-01											
Boron	1.1	0.10	mg/L	0.60	0.49	103	70-130	1	20	05/05/15	
Calcium	73	0.10	mg/L	10	63	99	70-130	1	20	05/05/15	
Iron	3.5	0.030	mg/L	2.0	1.6	95	70-130	1	20	05/05/15	
Magnesium	75	0.10	mg/L	10	66	95	70-130	0	20	05/05/15	
Manganese	0.22	0.010	mg/L	0.20	0.027	97	70-130	2	20	05/05/15	
Potassium	12	2.0	mg/L	10	2.1	99	70-130	1	20	05/05/15	
Sodium	58	1.0	mg/L	10	48	102	70-130	0	20	05/05/15	
EPA 200.8 - Quality Control											
Batch: A504744										Prepared: 4/29/2015	
Prep Method: EPA 200.2										Analyst: MAS	
Blank (A504744-BLK1)											
Antimony	ND	2.0	ug/L							05/07/15	
Arsenic	ND	2.0	ug/L							05/07/15	
Barium	ND	5.0	ug/L							05/07/15	
Beryllium	ND	1.0	ug/L							05/07/15	
Cadmium	ND	1.0	ug/L							05/07/15	
Chromium	ND	10	ug/L							05/07/15	
Cobalt	ND	10	ug/L							05/07/15	
Copper	ND	5.0	ug/L							05/07/15	
Lead	ND	5.0	ug/L							05/07/15	
Molybdenum	ND	10	ug/L							05/07/15	
Nickel	ND	10	ug/L							05/07/15	
Selenium	ND	2.0	ug/L							05/07/15	
Silver	ND	10	ug/L							05/07/15	
Strontium	ND	1.0	ug/L							05/07/15	
Uranium	ND	1.0	ug/L							05/07/15	
Vanadium	ND	3.0	ug/L							05/07/15	
Zinc	ND	50	ug/L							05/07/15	
Blank (A504744-BLK3)											
Mercury	ND	0.20	ug/L							05/08/15	
Thallium	ND	1.0	ug/L							05/08/15	
Blank Spike (A504744-BS1)											

BSK Associates 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: A504744										Prepared: 4/29/2015	
Prep Method: EPA 200.2										Analyst: MAS	
Blank Spike (A504744-BS1)											
Antimony	210	2.0	ug/L	200		103	85-115			05/07/15	
Arsenic	190	2.0	ug/L	200		94	85-115			05/07/15	
Barium	200	5.0	ug/L	200		99	85-115			05/07/15	
Beryllium	180	1.0	ug/L	200		92	85-115			05/07/15	
Cadmium	190	1.0	ug/L	200		94	85-115			05/07/15	
Chromium	180	10	ug/L	200		91	85-115			05/07/15	
Cobalt	180	10	ug/L	200		92	85-115			05/07/15	
Copper	180	5.0	ug/L	200		90	85-115			05/07/15	
Lead	170	5.0	ug/L	200		86	85-115			05/07/15	
Molybdenum	200	10	ug/L	200		99	85-115			05/07/15	
Nickel	180	10	ug/L	200		90	85-115			05/07/15	
Selenium	180	2.0	ug/L	200		90	85-115			05/07/15	
Silver	93	10	ug/L	100		93	75-125			05/07/15	
Strontium	190	1.0	ug/L	200		96	85-115			05/07/15	
Uranium	93	1.0	ug/L	100		93	85-115			05/07/15	
Vanadium	200	3.0	ug/L	200		101	85-115			05/07/15	
Zinc	180	50	ug/L	200		92	85-115			05/07/15	
Blank Spike (A504744-BS3)											
Mercury	4.3	0.20	ug/L	5.0		86	85-115			05/08/15	
Thallium	190	1.0	ug/L	200		94	85-115			05/08/15	
Blank Spike Dup (A504744-BSD1)											
Antimony	200	2.0	ug/L	200		102	85-115	1	20	05/07/15	
Arsenic	190	2.0	ug/L	200		93	85-115	1	20	05/07/15	
Barium	190	5.0	ug/L	200		94	85-115	5	20	05/07/15	
Beryllium	180	1.0	ug/L	200		91	85-115	1	20	05/07/15	
Cadmium	190	1.0	ug/L	200		94	85-115	0	20	05/07/15	
Chromium	180	10	ug/L	200		92	85-115	0	20	05/07/15	
Cobalt	180	10	ug/L	200		88	85-115	4	20	05/07/15	
Copper	180	5.0	ug/L	200		89	85-115	1	20	05/07/15	
Lead	170	5.0	ug/L	200		86	85-115	1	20	05/07/15	
Molybdenum	200	10	ug/L	200		100	85-115	1	20	05/07/15	
Nickel	170	10	ug/L	200		87	85-115	4	20	05/07/15	
Selenium	170	2.0	ug/L	200		87	85-115	3	20	05/07/15	
Silver	93	10	ug/L	100		93	75-125	0	20	05/07/15	
Strontium	190	1.0	ug/L	200		95	85-115	1	20	05/07/15	
Uranium	91	1.0	ug/L	100		91	85-115	2	20	05/07/15	
Vanadium	200	3.0	ug/L	200		99	85-115	2	20	05/07/15	
Zinc	180	50	ug/L	200		91	85-115	1	20	05/07/15	
Blank Spike Dup (A504744-BSD3)											
Mercury	4.3	0.20	ug/L	5.0		87	85-115	1	20	05/08/15	
Thallium	180	1.0	ug/L	200		90	85-115	5	20	05/08/15	

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Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.8 - Quality Control											
Batch: A504744										Prepared: 4/29/2015	
Prep Method: EPA 200.2										Analyst: MAS	
Matrix Spike (A504744-MS2), Source: A5D2378-01											
Antimony	210	2.0	ug/L	200	ND	105	70-130			05/07/15	
Arsenic	190	2.0	ug/L	200	ND	94	70-130			05/07/15	
Barium	480	5.0	ug/L	200	300	90	70-130			05/07/15	
Beryllium	180	1.0	ug/L	200	ND	91	70-130			05/07/15	
Cadmium	190	1.0	ug/L	200	ND	94	70-130			05/07/15	
Chromium	200	10	ug/L	200	11	95	70-130			05/07/15	
Cobalt	180	10	ug/L	200	ND	88	70-130			05/07/15	
Copper	180	5.0	ug/L	200	7.1	85	70-130			05/07/15	
Lead	170	5.0	ug/L	200	ND	86	70-130			05/07/15	
Molybdenum	200	10	ug/L	200	ND	100	70-130			05/07/15	
Nickel	180	10	ug/L	200	ND	88	70-130			05/07/15	
Selenium	180	2.0	ug/L	200	ND	89	70-130			05/07/15	
Silver	90	10	ug/L	100	ND	90	70-130			05/07/15	
Strontium	960	1.0	ug/L	200	710	125	70-130			05/07/15	
Uranium	94	1.0	ug/L	100	1.2	93	70-130			05/07/15	
Vanadium	220	3.0	ug/L	200	4.3	106	70-130			05/07/15	
Zinc	190	50	ug/L	200	ND	96	70-130			05/07/15	
Matrix Spike (A504744-MS5), Source: A5D2378-01											
Mercury	4.1	0.20	ug/L	5.0	ND	83	70-130			05/08/15	
Thallium	170	1.0	ug/L	200	ND	87	70-130			05/08/15	
Matrix Spike Dup (A504744-MSD2), Source: A5D2378-01											
Antimony	200	2.0	ug/L	200	ND	102	70-130	3	20	05/07/15	
Arsenic	180	2.0	ug/L	200	ND	91	70-130	3	20	05/07/15	
Barium	480	5.0	ug/L	200	300	91	70-130	0	20	05/07/15	
Beryllium	180	1.0	ug/L	200	ND	90	70-130	0	20	05/07/15	
Cadmium	190	1.0	ug/L	200	ND	93	70-130	1	20	05/07/15	
Chromium	190	10	ug/L	200	11	91	70-130	4	20	05/07/15	
Cobalt	170	10	ug/L	200	ND	83	70-130	6	20	05/07/15	
Copper	170	5.0	ug/L	200	7.1	83	70-130	2	20	05/07/15	
Lead	170	5.0	ug/L	200	ND	85	70-130	2	20	05/07/15	
Molybdenum	200	10	ug/L	200	ND	99	70-130	2	20	05/07/15	
Nickel	170	10	ug/L	200	ND	82	70-130	7	20	05/07/15	
Selenium	170	2.0	ug/L	200	ND	86	70-130	3	20	05/07/15	
Silver	86	10	ug/L	100	ND	86	70-130	4	20	05/07/15	
Strontium	940	1.0	ug/L	200	710	112	70-130	3	20	05/07/15	
Uranium	97	1.0	ug/L	100	1.2	96	70-130	3	20	05/07/15	
Vanadium	210	3.0	ug/L	200	4.3	101	70-130	5	20	05/07/15	
Zinc	180	50	ug/L	200	ND	90	70-130	6	20	05/07/15	
Matrix Spike Dup (A504744-MSD5), Source: A5D2378-01											
Mercury	4.2	0.20	ug/L	5.0	ND	85	70-130	2	20	05/08/15	
Thallium	180	1.0	ug/L	200	ND	91	70-130	4	20	05/08/15	

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Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 8015B (SGT) - Quality Control											
Batch: A505066										Prepared: 5/7/2015	
Prep Method: TPH-D by 8015B										Analyst: PYA	
Blank (A505066-BLK1)											
Crude Oil Range Hydrocarbons	ND	500	ug/L							05/13/15	
Surrogate: Tetracosane	*10*			*10*		*103*	*50-150*			05/13/15	
Blank Spike (A505066-BS1)											
Crude Oil Range Hydrocarbons	310	500	ug/L	500		62	50-150			05/13/15	
Surrogate: Tetracosane	*11*			*10*		*108*	*50-150*			05/13/15	
Blank Spike Dup (A505066-BSD1)											
Crude Oil Range Hydrocarbons	310	500	ug/L	500		63	50-150	1	30	05/13/15	
Surrogate: Tetracosane	*11*			*10*		*113*	*50-150*			05/13/15	
EPA 8260B - Quality Control											
Batch: A504684										Prepared: 4/29/2015	
Prep Method: no prep-volatiles										Analyst: AMN	
Blank (A504684-BLK1)											
Benzene	ND	0.50	ug/L							04/29/15	
Ethylbenzene	ND	0.50	ug/L							04/29/15	
m,p-Xylenes	ND	0.50	ug/L							04/29/15	
o-Xylene	ND	0.50	ug/L							04/29/15	
Toluene	ND	0.50	ug/L							04/29/15	
Surrogate: 1,2-Dichloroethane-d4	*47*			*50*		*94*	*70-130*			04/29/15	
Surrogate: Bromofluorobenzene	*46*			*50*		*92*	*70-130*			04/29/15	
Surrogate: Toluene-d8	*49*			*50*		*98*	*70-130*			04/29/15	
Blank Spike (A504684-BS1)											
Benzene	10	0.50	ug/L	10		101	75-126			04/29/15	
Ethylbenzene	10	0.50	ug/L	10		101	82-123			04/29/15	
m,p-Xylenes	21	0.50	ug/L	20		106	79-126			04/29/15	
o-Xylene	10	0.50	ug/L	10		104	79-127			04/29/15	
Toluene	11	0.50	ug/L	10		107	78-124			04/29/15	
Surrogate: 1,2-Dichloroethane-d4	*50*			*50*		*100*	*70-130*			04/29/15	
Surrogate: Bromofluorobenzene	*48*			*50*		*97*	*70-130*			04/29/15	
Surrogate: Toluene-d8	*48*			*50*		*97*	*70-130*			04/29/15	
Blank Spike Dup (A504684-BSD1)											
Benzene	9.4	0.50	ug/L	10		94	75-126	7	30	04/29/15	
Ethylbenzene	9.5	0.50	ug/L	10		95	82-123	6	30	04/29/15	
m,p-Xylenes	19	0.50	ug/L	20		97	79-126	9	30	04/29/15	
o-Xylene	9.4	0.50	ug/L	10		94	79-127	9	30	04/29/15	
Toluene	10	0.50	ug/L	10		103	78-124	4	30	04/29/15	
Surrogate: 1,2-Dichloroethane-d4	*51*			*50*		*102*	*70-130*			04/29/15	
Surrogate: Bromofluorobenzene	*49*			*50*		*99*	*70-130*			04/29/15	
Surrogate: Toluene-d8	*48*			*50*		*96*	*70-130*			04/29/15	

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Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 8270C - Quality Control											
Batch: A504860										Prepared: 5/3/2015	
Prep Method: EPA 3520C										Analyst: KHH	
Blank (A504860-BLK1)											
Acenaphthene	ND	0.010	ug/L							05/07/15	
Acenaphthylene	ND	0.010	ug/L							05/07/15	
Anthracene	ND	0.010	ug/L							05/07/15	
Benzo(a)anthracene	ND	0.010	ug/L							05/07/15	
Benzo(a)pyrene	ND	0.010	ug/L							05/07/15	
Benzo(b)fluoranthene	ND	0.010	ug/L							05/07/15	
Benzo(g,h,i)perylene	ND	0.010	ug/L							05/07/15	
Benzo(k)fluoranthene	ND	0.010	ug/L							05/07/15	
Chrysene	ND	0.010	ug/L							05/07/15	
Dibenzo(a,h)anthracene	ND	0.010	ug/L							05/07/15	
Fluoranthene	ND	0.010	ug/L							05/07/15	
Fluorene	ND	0.010	ug/L							05/07/15	
Indeno(1,2,3-cd)pyrene	ND	0.010	ug/L							05/07/15	
Naphthalene	ND	0.010	ug/L							05/07/15	
Phenanthrene	ND	0.010	ug/L							05/07/15	
Pyrene	ND	0.010	ug/L							05/07/15	
Surrogate: 2-Fluorobiphenyl	*4.5*			*5.0*		*89*	*40-127*			05/07/15	
Surrogate: Nitrobenzene-d5	*4.7*			*5.0*		*94*	*49-133*			05/07/15	
Surrogate: p-Terphenyl-d14	*4.9*			*5.0*		*97*	*39-135*			05/07/15	
Blank Spike (A504860-BS1)											
Acenaphthene	0.23	0.010	ug/L	0.25		92	47-145			05/07/15	
Acenaphthylene	0.24	0.010	ug/L	0.25		97	33-145			05/07/15	
Anthracene	0.22	0.010	ug/L	0.25		86	27-133			05/07/15	
Benzo(a)anthracene	0.24	0.010	ug/L	0.25		97	33-143			05/07/15	
Benzo(a)pyrene	0.24	0.010	ug/L	0.25		98	17-163			05/07/15	
Benzo(b)fluoranthene	0.25	0.010	ug/L	0.25		101	24-159			05/07/15	
Benzo(g,h,i)perylene	0.25	0.010	ug/L	0.25		98	10-219			05/07/15	
Benzo(k)fluoranthene	0.26	0.010	ug/L	0.25		103	11-162			05/07/15	
Chrysene	0.24	0.010	ug/L	0.25		95	17-168			05/07/15	
Dibenzo(a,h)anthracene	0.25	0.010	ug/L	0.25		101	10-227			05/07/15	
Fluoranthene	0.24	0.010	ug/L	0.25		97	26-137			05/07/15	
Fluorene	0.26	0.010	ug/L	0.25		104	59-121			05/07/15	
Indeno(1,2,3-cd)pyrene	0.25	0.010	ug/L	0.25		101	10-171			05/07/15	
Naphthalene	0.22	0.010	ug/L	0.25		87	21-133			05/07/15	
Phenanthrene	0.23	0.010	ug/L	0.25		93	54-120			05/07/15	
Pyrene	0.24	0.010	ug/L	0.25		95	52-115			05/07/15	
Surrogate: 2-Fluorobiphenyl	*4.4*			*5.0*		*87*	*40-127*			05/07/15	
Surrogate: Nitrobenzene-d5	*4.7*			*5.0*		*94*	*49-133*			05/07/15	
Surrogate: p-Terphenyl-d14	*4.7*			*5.0*		*95*	*39-135*			05/07/15	
Blank Spike Dup (A504860-BSD1)											
Acenaphthene	0.22	0.010	ug/L	0.25		89	47-145	3	30	05/07/15	
Acenaphthylene	0.23	0.010	ug/L	0.25		93	33-145	4	30	05/07/15	
Anthracene	0.23	0.010	ug/L	0.25		90	27-133	4	30	05/07/15	

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Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 8270C - Quality Control											
Batch: A504860										Prepared: 5/3/2015	
Prep Method: EPA 3520C										Analyst: KHH	
Blank Spike Dup (A504860-BSD1)											
Benzo(a)anthracene	0.24	0.010	ug/L	0.25		96	33-143	1	30	05/07/15	
Benzo(a)pyrene	0.24	0.010	ug/L	0.25		98	17-163	0	30	05/07/15	
Benzo(b)fluoranthene	0.25	0.010	ug/L	0.25		100	24-159	1	30	05/07/15	
Benzo(g,h,i)perylene	0.24	0.010	ug/L	0.25		95	10-219	4	30	05/07/15	
Benzo(k)fluoranthene	0.25	0.010	ug/L	0.25		99	11-162	4	30	05/07/15	
Chrysene	0.25	0.010	ug/L	0.25		100	17-168	5	30	05/07/15	
Dibenzo(a,h)anthracene	0.24	0.010	ug/L	0.25		97	10-227	5	30	05/07/15	
Fluoranthene	0.24	0.010	ug/L	0.25		97	26-137	0	30	05/07/15	
Fluorene	0.24	0.010	ug/L	0.25		96	59-121	8	30	05/07/15	
Indeno(1,2,3-cd)pyrene	0.24	0.010	ug/L	0.25		97	10-171	4	30	05/07/15	
Naphthalene	0.22	0.010	ug/L	0.25		87	21-133	1	30	05/07/15	
Phenanthrene	0.23	0.010	ug/L	0.25		94	54-120	1	30	05/07/15	
Pyrene	0.24	0.010	ug/L	0.25		97	52-115	3	30	05/07/15	
Surrogate: 2-Fluorobiphenyl	*4.3*			*5.0*		*86*	*40-127*			05/07/15	
Surrogate: Nitrobenzene-d5	*4.5*			*5.0*		*91*	*49-133*			05/07/15	
Surrogate: p-Terphenyl-d14	*4.8*			*5.0*		*97*	*39-135*			05/07/15	
Matrix Spike (A504860-MS1), Source: A5D2278-04											
Acenaphthene	0.26	0.010	ug/L	0.24	ND	106	47-145			05/07/15	
Acenaphthylene	0.26	0.010	ug/L	0.24	ND	108	33-145			05/07/15	
Anthracene	0.25	0.010	ug/L	0.24	ND	102	27-133			05/07/15	
Benzo(a)anthracene	0.25	0.010	ug/L	0.24	ND	103	33-143			05/07/15	
Benzo(a)pyrene	0.26	0.010	ug/L	0.24	ND	107	17-163			05/07/15	
Benzo(b)fluoranthene	0.27	0.010	ug/L	0.24	ND	111	24-159			05/07/15	
Benzo(g,h,i)perylene	0.19	0.010	ug/L	0.24	ND	78	10-219			05/07/15	
Benzo(k)fluoranthene	0.26	0.010	ug/L	0.24	ND	107	11-162			05/07/15	
Chrysene	0.23	0.010	ug/L	0.24	ND	97	17-168			05/07/15	
Dibenzo(a,h)anthracene	0.22	0.010	ug/L	0.24	ND	90	10-227			05/07/15	
Fluoranthene	0.24	0.010	ug/L	0.24	ND	101	26-137			05/07/15	
Fluorene	0.26	0.010	ug/L	0.24	ND	107	59-121			05/07/15	
Indeno(1,2,3-cd)pyrene	0.22	0.010	ug/L	0.24	ND	90	10-171			05/07/15	
Naphthalene	0.20	0.010	ug/L	0.24	ND	84	21-133			05/07/15	
Phenanthrene	0.24	0.010	ug/L	0.24	ND	99	54-120			05/07/15	
Pyrene	0.24	0.010	ug/L	0.24	ND	98	52-115			05/07/15	
Surrogate: 2-Fluorobiphenyl	*4.1*			*4.8*		*85*	*40-127*			05/07/15	
Surrogate: Nitrobenzene-d5	*4.7*			*4.8*		*97*	*49-133*			05/07/15	
Surrogate: p-Terphenyl-d14	*4.3*			*4.8*		*89*	*39-135*			05/07/15	
Matrix Spike Dup (A504860-MSD1), Source: A5D2278-04											
Acenaphthene	0.26	0.010	ug/L	0.25	ND	105	47-145	2	30	05/07/15	
Acenaphthylene	0.27	0.010	ug/L	0.25	ND	108	33-145	3	30	05/07/15	
Anthracene	0.25	0.010	ug/L	0.25	ND	100	27-133	1	30	05/07/15	
Benzo(a)anthracene	0.26	0.010	ug/L	0.25	ND	103	33-143	3	30	05/07/15	
Benzo(a)pyrene	0.26	0.010	ug/L	0.25	ND	106	17-163	2	30	05/07/15	
Benzo(b)fluoranthene	0.27	0.010	ug/L	0.25	ND	107	24-159	0	30	05/07/15	

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Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 8270C - Quality Control											
Batch: A504860										Prepared: 5/3/2015	
Prep Method: EPA 3520C										Analyst: KHH	
Matrix Spike Dup (A504860-MSD1), Source: A5D2278-04											
Benzo(g,h,i)perylene	0.20	0.010	ug/L	0.25	ND	80	10-219	4	30	05/07/15	
Benzo(k)fluoranthene	0.33	0.010	ug/L	0.25	ND	133	11-162	23	30	05/07/15	
Chrysene	0.24	0.010	ug/L	0.25	ND	98	17-168	4	30	05/07/15	
Dibenzo(a,h)anthracene	0.23	0.010	ug/L	0.25	ND	93	10-227	7	30	05/07/15	
Fluoranthene	0.25	0.010	ug/L	0.25	ND	100	26-137	2	30	05/07/15	
Fluorene	0.26	0.010	ug/L	0.25	ND	105	59-121	1	30	05/07/15	
Indeno(1,2,3-cd)pyrene	0.23	0.010	ug/L	0.25	ND	92	10-171	5	30	05/07/15	
Naphthalene	0.23	0.010	ug/L	0.25	ND	91	21-133	11	30	05/07/15	
Phenanthrene	0.24	0.010	ug/L	0.25	ND	96	54-120	1	30	05/07/15	
Pyrene	0.24	0.010	ug/L	0.25	ND	97	52-115	1	30	05/07/15	
Surrogate: 2-Fluorobiphenyl	*4.5*			*5.0*		*91*	*40-127*			05/07/15	
Surrogate: Nitrobenzene-d5	*4.7*			*5.0*		*94*	*49-133*			05/07/15	
Surrogate: p-Terphenyl-d14	*4.4*			*5.0*		*89*	*39-135*			05/07/15	

BSK Associates Fresno
Radiological Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 7110C - Quality Control											
Batch: A504872										Prepared: 5/5/2015	
Prep Method: EPA 00-02										Analyst: SAB	
Blank (A504872-BLK1)											
1.65 Sigma Uncertainty	ND		±							05/06/15	
Gross Alpha	ND	3	pCi/L							05/06/15	
MDA95	ND	0.00	pCi/L							05/06/15	
Blank Spike (A504872-BS1)											
Gross Alpha	28.4	3	pCi/L	30		95	80-120			05/06/15	
Blank Spike Dup (A504872-BSD1)											
Gross Alpha	27.8	3	pCi/L	30		93	80-120	2	50	05/06/15	
Matrix Spike (A504872-MS1), Source: A5D2453-01											
Gross Alpha	92.0	3	pCi/L	120	ND	75	70-130			05/06/15	
Matrix Spike (A504872-MS2), Source: A5E0020-04											
Gross Alpha	94.0	3	pCi/L	120	ND	78	70-130			05/06/15	
Matrix Spike Dup (A504872-MSD1), Source: A5D2453-01											
Gross Alpha	110	3	pCi/L	120	ND	90	70-130	18	50	05/06/15	
Matrix Spike Dup (A504872-MSD2), Source: A5E0020-04											
Gross Alpha	93.0	3	pCi/L	120	ND	77	70-130	1	50	05/06/15	

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.
- 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.

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 at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	Picocuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit		

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

BSK is not accredited under the NELAC program for the following parameters: **NA**

Cobalt Molybdenum Strontium
Vanadium

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
State of Nevada	CA000792015-1	State of Oregon - NELAC	4021
EPA - UCMR3	CA00079	State of Washington	C997-15

Sacramento

State of California - ELAP	2435

Vancouver

State of Oregon - NELAC	WA100008	State of Washington	C824-14a

A5D2476

04282015

BSKAs0671

Turnaround: Standard

Due Date: 5/12/2015

BSK Associates - Bakersfield

BSK Associates
Engineers & Laboratories
(559) 497-2888 Fax (559) 497-2893
www.bskassociates.com

A5D2476 04/28/2015
BSKAs0671 10

*Required Fields Temp: 0.8

Company/Client Name*:	Report Attention*:	Invoice To*:	Phone*:	Fax*:
BSK ~~Bakersfield~~ Fresno	Ken Mitchell Additional cc's: Carly Rozell	Ken Mitchell PO#:	661-327-0671	661-324-4218
			E-mail*: kmitchell@bskinc.com	

Address*:	City*:	State*:	Zip*:
700 22nd Street	Bakersfield	CA	93301

Regulatory Carbon Copies: CDPH ☐ Fresno Co ☐ Merced Co ☐ Tulare Co ☐ Madera Co ☐ Other: ____

Project: RWQCB Sump Order Panel
Project #: E15-026-01F Ph: 002 Tsk:

Reporting Options: ☐ Trace (J-Flag) ☐ Swamp ☐ EDD Type: ____

How would you like your completed results sent?* ☒ E-Mail ☐ Fax ☐ Mail

Regulatory Compliance: ☐ EDT to California DPH
System Number*: ____

Sampler Name (Printed/Signature)*: Logan Prosser

TAT* **Surcharge
☒ **Standard** - 10 Business Days
☐ ****Rush**: Date Needed ____

☒ Geotracker #: ____

Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

#	Sample Description*	Sampled* Date	Sampled* Time	Matrix*	Comments / Station Code / WTRAX	RWQCB Sump Order Panel
	Mount Poso Sump	4-27-15	1015	SW		X

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Printed Name)	Company
Logan Prosser	BSK - B	4-27-15	12:15	Laura Goddard	BSK
Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Printed Name)	Company
Received for Lab by: (Signature and Printed Name)		Date	Time	Payment Received at Delivery:	Check / Cash
Michelle Weiss		4/28/15	15:36	Date: Amount: PIA#:	Init.

Shipping Method: ONTRAC UPS GSO WALK-IN FED EX Courier: PMS
Cooling Method: (Wet) (Blue) None
Custody Seal: Y (N)
Chilling Process Begun (Y) N

A5D2476 04/28/2015
BSKAs0671 10

Sample Integrity

BSK Bottles: (Yes) No Page 1 of 1

COC Info

Was temperature within range? Chemistry ≤ 6°C Micro < 10°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)	Were there bubbles in the VOA vials? (Volatiles Only)	(Yes) No NA
Did all bottles arrive unbroken and intact?	(Yes) No	Was a sufficient amount of sample received?	(Yes) No
Did all bottle labels agree with COC?	(Yes) No	Do samples have a hold time <72 hours?	Yes (No)
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes (No) NA	Was PM notified of discrepancies? PM: By/Time:	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) 40ml VOA(V)	Checks	Passed?						
Bacti $Na_2S_2O_3$	—	—						
None (P) White Cap	—	—	1C					
Cr6 (P) Br. Green Label NH4OH(NH4)2SO4 **DW**	Cl, pH > 8	(Y) N	1A					
Cr6 (P) Pink Label Hex Chrome Buffer **DW**	pH 9-9.5	Y N						
Cr6 (P) Pink Label Hex Chrome Buffer **WW**	pH 9.3-9.7	Y N						
HNO_3 (P) Red Cap	—	—	2B,4C					
H_2SO_4 (P) or (AG) Yellow Cap/Label	pH < 2	Y N						
NaOH (P) Green Cap	Cl, pH >10	Y N						
NaOH + ZnAc (P)	pH > 9	Y N						
Dissolved Oxygen 300ml (g)	—	—						
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—	2C					
HCl (AG) Lt. Blue Label O&G, Diesel	—	—	2C					
Na_2O_3S+HCl (AG) Lt. Pink Label 525	—	—						
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—						
$Na_2S_2O_3$ (AG) Blue Label 547,515,548,THM,524	—	—						
$Na_2S_2O_3$ (CG) Blue Label 504, 505	—	—						
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH < 3	Y N						
NH_4Cl (AG) Purple Label 552	—	—						
EDA (AG) Brown Label DBPs	—	—	1A					
HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	—	—	3V					
Buffer pH 4 (CG)	—	—						
None (CG)	—	—						
H_3PO_4 (CG) Salmon Label	—	—						
Other:								
Asbestos 1Liter Plastic w/ Foil	—	—						
Low Level Hg / Metals Double Baggie	—	—						
Bottled Water	—	—						
Clear Glass Jar: 250 / 500 / 1 Liter	—	—						
Soil Tube Brass / Steel / Plastic	—	—						
Tedlar Bag / Plastic Bag	—	—						

4/28/15 MW

Split

	Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials
S P				S P			
S P				S P			

Comments

Small bubble in 1 VOA

Labeled by: JH @ 17:04 Labels checked by: MD @ 1706 RUSH Paged by:

External

A5D2476

basic

2218 Railroad Avenue
Redding, California 96001
530.243.7234
530.243.7494

3860 Morrow Lane, Suite F
Chico, California 95928
530.894.8966
530.894.5143

May 13, 2015

Lab ID: 15E0022

JOHN MONTIERTH
B S K ANALYTICAL LABORATORIES
1414 STANISLAUS
FRESNO, CA 93706
RE: GENERAL TESTING A5D2476

Dear JOHN MONTIERTH ,

Enclosed are the analysis results for Work Order number 15E0022. All analysis were performed under strict adherence to our established Quality Assurance Plan. Any abnormalities are listed in the qualifier section of this report.

If you have any questions regarding these results, please feel free to contact us at any time. We appreciate the opportunity to service your environmental testing needs.

Sincerely,

For

Ricky D. Jensen
Laboratory Director
California ELAP Certification Number 1677

basic

2218 Railroad Avenue
Redding, California 96001
530.243.7234
530.243.7494

3860 Morrow Lane, Suite F
Chico, California 95928
530.894.8966
530.894.5143

Report To: B S K ANALYTICAL LABORATORIES
1414 STANISLAUS
FRESNO, CA 93706
Attention: JOHN MONTIERTH
Project: GENERAL TESTING A5D2476
Description: A5D2476-01 MOUNT POSO SUMP **Lab ID:** 15E0022-01
Matrix: Water **Received Temp (C):** 26.9

Lab No: 15E0022
Reported: 05/13/15
Phone: (559) 497-2888
P.O. #
Sampled: 04/27/15 10:45
Received: 05/01/15 12:02

Metals - Total

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
Lithium	ug/l	**35**		4	10	EPA 200.7	05/11/15	05/09/15	B5E0927

Quality Control Data

Metals - Total

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch B5E0927 - EPA 200 Series										
Blank										
Lithium	ND	10	ug/l							
LCS										
Lithium	511	10	ug/l	500		102	85-115			
Duplicate **Source: 15E0116-01**										
Lithium	ND	10	ug/l		ND				20	
Matrix Spike **Source: 15E0116-01**										
Lithium	521	10	ug/l	500	ND	104	75-125			

Approved By

Basic Laboratory, Inc.
California ELAP Cert #1677 and #2718

basic

2218 Railroad Avenue 530.243.7234
Redding, California 96001 530.243.7494

3860 Morrow Lane, Suite F 530.894.8966
Chico, California 95928 530.894.5143

Report To: B S K ANALYTICAL LABORATORIES
1414 STANISLAUS
FRESNO, CA 93706
Attention: JOHN MONTIERTH
Project: GENERAL TESTING A5D2476

Lab No: 15E0022
Reported: 05/13/15
Phone: (559) 497-2888
P.O. #

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the detection limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
<	Less than reporting limit
≤	Less than or equal to reporting limit
>	Greater than reporting limit
≥	Greater than or equal to reporting limit
MDL	Method Detection Limit
RL/ML	Minimum Level of Quantitation
MCL/AL	Maxium Contaminant Level/Action Level
mg/kg	Results reported as wet weight
TTLC	Total Threshold Limit Concentration
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leachate Procedure
Note 1	Received Temperature - according to EPA guidelines, samples for most chemistry methods should be held at ≤6 degrees C after collection, including during transportation, unless the time from sampling to delivery is <2 hours. Regulating agencies may invalidate results if temperature requirements are not met.
Note 2	According to 40 CFR Part 136 Table II, the following tests should be analyzed in the field within 15 minutes of sampling: pH, chlorine, dissolved oxygen, and sulfite.

Approved By

Basic Laboratory, Inc.
California ELAP Cert #1677 and #2718

BSK Analytical Laboratories
Engineers & Laboratories

SUBCONTRACT ORDER

A5D2476

15ECC22-
Due 5-13-15

15E0022

1

SENDING LABORATORY:

BSK Associates Fresno
1414 Stanislaus St
Fresno, CA 93706
Phone: 559-497-2888
Fax: 559-485-6935
Project Manager: John Montierth
E-mail: jmontierth@bskinc.com

RECEIVING LABORATORY:

Basic Laboratories
2218 Railroad Ave
Redding, CA 96001
Phone :(530) 243-7234
Fax: (530) 243-7494
Turnaround (Days): Standard
QC Deliverables: I Std III IV

Sample ID	Samp Desc	Comments	Sample Date
A5D2476-01	Mount Poso Sump		**04/27/2015 10:45**

Matrix: Water

Analysis 500 mL P w/ HNO_3
EXT-Miscellaneous — Lithium #1 26.4°

Pre preserved HNO3 pH 2 - 5-1-15 15:27 mc

Released By	Date	Received By	Date
[signature]	4.30.15	[signature]	5-1-15 12:02
		[signature]	5-1-15 12:06
Released By	Date	Received By	Date

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

May 26, 2015

Mr. John Montierth
BSK Analytical Laboratories
1414 Stanislaus Street
Fresno, CA 93706

RE: Project: A5D2476
Pace Project No.: 30147555

Dear Mr. Montierth:
Enclosed are the analytical results for sample(s) received by the laboratory on May 07, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacquelyn Collins
jacquelyn.collins@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: A5D2476
Pace Project No.: 30147555

Pennsylvania Certification IDs
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: PA014572014-4
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

Pace Analytical Services, Inc.
1638 Roscytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: A5D2476
Pace Project No.: 30147555

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30147555001	**A5D2476-01**	Drinking Water	04/27/15 10:45	05/07/15 10:25

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: A5D2476
Pace Project No.: 30147555

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30147555001	**A5D2476-01**	EPA 903.1	JC2	1	PASI-PA
		EPA 904.0	JLW	1	PASI-PA

Pace Analytical Services, Inc.
1638 Roseytown Road Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: A5D2476
Pace Project No.: 30147555

Date: May 26, 2015

Sample 30147555001 was analyzed for Ra-228 content using a volume of 650 ml, and the actual Ba-133 tracer yield was lower than anticipated prior to counting. As a result of the lower analysis volume and tracer yield, the routine Ra-228 RL of 1.0 pCi/L was not achieved by the laboratory. Additional volume was not available for re-preparation and re-analysis, so results for Ra-228 have been reported with client permission.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: A5D2476
Pace Project No.: 30147555

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: BSK Analytical Laboratories
Date: May 26, 2015

General Information:
1 sample was analyzed for EPA 903.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: A5D2476
Pace Project No.: 30147555

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: BSK Analytical Laboratories
Date: May 26, 2015

General Information:
1 sample was analyzed for EPA 904.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: A5D2476
Pace Project No.: 30147555

Sample: A5D2476-01 **Lab ID: 30147555001** Collected: 04/27/15 10:45 Received: 05/07/15 10:25 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 903.1	**0.602 ± 0.590 (0.408) C:NA T:83%**	pCi/L	05/20/15 11:22	13982-63-3	
Radium-228	EPA 904.0	**-0.0415 ± 0.529 (1.20) C:82% T:57%**	pCi/L	05/21/15 13:11	15262-20-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: A5D2476
Pace Project No.: 30147555

QC Batch: RADC/24397 Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1 Analysis Description: 903.1 Radium-226
Associated Lab Samples: 30147555001

METHOD BLANK: 891708 Matrix: Water
Associated Lab Samples: 30147555001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.198 ± 0.466 (0.863) C:NA T:85%	pCi/L	05/20/15 11:01	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

Pace Analytical Services, Inc.
1638 Roscytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: A5D2476
Pace Project No.: 30147555

QC Batch: RADC/24398 Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0 Analysis Description: 904.0 Radium 228
Associated Lab Samples: 30147555001

METHOD BLANK: 891709 Matrix: Water
Associated Lab Samples: 30147555001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.435 ± 0.400 (0.819) C:85% T:89%	pCi/L	05/21/15 13:15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: A5D2476
Pace Project No.: 30147555

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

WORKORDER QUALIFIERS

WO: 30147555

[1] Sample 30147555001 was analyzed for Ra-228 content using a volume of 650 ml, and the actual Ba-133 tracer yield was lower than anticipated prior to counting. As a result of the lower analysis volume and tracer yield, the routine Ra-228 RL of 1.0 pCi/L was not achieved by the laboratory. Additional volume was not available for re-preparation and re-analysis, so results for Ra-228 have been reported with client permission.

BSK Analytical Laboratories
Engineers & Laboratories

SUBCONTRACT ORDER

A5D2476

30147555

SENDING LABORATORY:

BSK Associates Fresno
1414 Stanislaus St
Fresno, CA 93706
Phone: 559-497-2888
Fax: 559-485-6935
Project Manager: John Montierth
E-mail: jmontierth@bskinc.com

RECEIVING LABORATORY:

Pace Analytical-Radiochem
1638 Roseytown Rd Ste 2,3,4
Greensburg, PA 15601
Phone :(724) 850-5600
Fax: (724) 722-5208
Turnaround (Days): Standard
QC Deliverables: I Std III IV

Sample ID	Samp Desc	Comments	Sample Date
A5D2476-01	Mount Poso Sump		**04/27/2015 10:45**

Matrix: Water

Analysis
EXT-Radium 226/228 DW Package
EXT-Radium 226-DW Matrix
EXT-Radium 228-DW Matrix

Released By	Date	Received By	Date
NR	4-30-15		5-7-15 1025
Released By	Date	Received By	Date

Sample Condition Upon Receipt

Pace Analytical

Client Name: BSK

Project # 30147555

Courier: ☐ Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 1Z93X9210356190 1157

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no Biological Tissue is Frozen: Yes No

Packing Material: Bubble Wrap X Bubble Bags ___ None ___ Other _____

Thermometer Used N/A Type of Ice: Wet Blue (None) ☐ Samples on Ice, cooling process has begun

Cooler Temp.: Observed Temp.:_____°C Correction Factor: _____°C Final Temp:_____°C

Date and Initials of person examining contents: SRA 5-7-15

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☒No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☒No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes ☐No ☐N/A	PHLT
exceptions: VOA, coliform, TOC, O&G, Phenols	☐Yes ☒No	Initial when completed SRA / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☒N/A	15.
Trip Blank Present:	☐Yes ☒No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 5/7/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Project Number: 30147555

Client Name: BSK

Item No.	18												
Matrix Code	wt												
Glass Jar (120 / 250 / 500 / 1L)													
Soil kit (2 SB, 1M, soil jar)													
Chemistry (250 / 500 / 1L)													
Organics (1L)													
Nutrient (250 / 500)													
Phenolics (250 ml)													
TOC (40 ml / 250 ml)													
TOX (250 ml)													
Total Metals													
Dissolved Metals preserved Y N													
O & G (1L)													
TPH (1L)													
VOA (40 ml 30 ml)													
Cyanide (250 ml)													
Sulfide (500 ml)													
Bacteria (120 ml)													
Wipes / swipe/ smear/ filter													
Radchem Nalgene (125 / 250 / 500 / 1L)	N												
Radchem Nalgene (1/2 gal. / 1 gal.L)													
Cubitainer (500 ml / 4L)													
Ziploc													
Other													
Other													

SCURF Back (C016-4 15May2012).xls

A5E1312

05142015

BSKAs0671

Turnaround: Standard
Due Date: 6/1/2015

BSK Associates - Bakersfield

Printed: 5/14/

BSK Associates Engineers & Laboratories
1414 Stanislaus St., Fresno, CA 93706
(559) 497-2888 Fax (559) 497-2893
www.bskassociates.com

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BSKAs0671 10

*Required Fields Temp: 1.5

Company/Client Name*:	Report Attention*:	Invoice To*:	Phone*:	Fax*:
BSK Bakersfield	Ken Mitchell Additional cc's: Carly Rozell	Ken Mitchell PO#:	661-327-0671	661-324-4218
			E-mail*: kmitchell@bskinc.com	

Address*:	City*:	State*:	Zip*:	Regulatory Carbon Copies
700 22nd Street	Bakersfield	CA	93301	CDPH ☐ Fresno Co ☐ Merced Co ☐ Tulare Co ☐ Madera Co ☐ Other:

Project:	Project #:	
RWQCB Sump Order Panel	E15-027-01F Ph: 002	Tsk:

Reporting Options: ☐ Trace (J-Flag) ☐ Swamp ☐ EDD Type:

How would you like your completed results sent?* ☒ E-Mail ☐ Fax ☐ Mail

Regulatory Compliance: ☐ EDT to California DPH System Number*: ☐ Geotracker #:

Sampler Name (Printed/Signature)*: Ken Mitchell

TAT* **Surcharge: ☒ **Standard** - 10 Business Days ☐ **Rush: Date Needed

Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

#	Sample Description*	Sampled* Date	Sampled* Time	Matrix*	Comments / Station Code / WTRAX	RWQCB Sump Order Panel
1	McDonald Anticline Layman Sump	5/13/15	1102	SW		X

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Printed Name)	Company
KEN MITCHELL	BSK - B	5/13/15	1457	A. Rios / Ashley Rios	BSK-B
Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Printed Name)	Company
Received for Lab by: (Signature and Printed Name)		Date: 5/14/15	Time	Payment Received at Delivery: Date: Amount:	Check / Cash PIA#: Init.

Shipping Method: ONTRAC UPS GSO WALK-IN FED EX Courier: pm3

Cooling Method: Wet Blue Ice None

Custody Seal: Y (N)

Chilling Process Begun: Y / N

BSK Associates SR-FL-0002-13

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Sample Integrity

BSK Bottles: (Yes) No Page 1 of 1

COC Info

Was temperature within range? Chemistry ≤ 6°C Micro < 10°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)	Were there bubbles in the VOA vials? **(Volatiles Only)**	Yes No (NA)
Did all bottles arrive unbroken and intact?	(Yes) No	Was a sufficient amount of sample received?	(Yes) No
Did all bottle labels agree with COC?	(Yes) No	Do samples have a hold time <72 hours?	(Yes) No
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No (NA)	Was PM notified of discrepancies? PM: By/Time:	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) 40ml VOA(V)	Checks	Passed?						
Bacti $Na_2S_2O_3$	—	—						
None (P) White Cap	—	—	1A					
Cr6 (P) Br. Green Label $NH_4OH(NH_4)_2SO_4$ **DW**	Cl, pH > 8	(Y) N						
Cr6 (P) Pink Label Hex Chrome Buffer **DW**	pH 9-9.5	Y N						
Cr6 (P) Pink Label Hex Chrome Buffer **WW**	pH 9.3-9.7	Y N						
HNO_3 (P) Red Cap	—	—	4C, 2B					
H_2SO_4 (P) or (AG) Yellow Cap/Label	pH < 2	Y N						
NaOH (P) Green Cap	Cl, pH >10	Y N						
NaOH + ZnAc (P)	pH > 9	Y N						
Dissolved Oxygen 300ml (g)	—	—						
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—	2C					
HCl (AG) Lt. Blue Label O&G, Diesel	—	—	2C					
Na_2O_3S+HCl (AG) Lt. Pink Label 525	—	—						
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—						
$Na_2S_2O_3$ (AG) Blue Label 547,515,548,THM,524	—	—						
$Na_2S_2O_3$ (CG) Blue Label 504, 505	—	—						
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH < 3	Y N						
NH_4Cl (AG) Purple Label 552	—	—						
EDA (AG) Brown Label DBPs	—	—	1A					
HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	—	—	~~2C~~ 3V HW					
Buffer pH 4 (CG)	—	—						
None (CG)	—	—						
H_3PO_4 (CG) Salmon Label	—	—						
Other:								
Asbestos 1Liter Plastic w/ Foil	—	—						
Low Level Hg / Metals Double Baggie	—	—						
Bottled Water	—	—						
Clear Glass Jar: 250 / 500 / 1 Liter	—	—						
Soil Tube Brass / Steel / Plastic	—	—						
Tedlar Bag / Plastic Bag	—	—						

5/14/15

Split

	Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials
S P				S P			
S P				S P			

Comments

Labeled by: MW @ 17:53 Labels checked by: JMD @ 17:57 RUSH Paged by: