RRH

Burton A. Ellison
Mona J. Ellison Trust
101 Starmount Lane
Bakersfield, CA 93309
(661) 809-7548
Bellison101@aol.com

RECEIVED
JUN 17 2015
RWQCB-CVR
FRESNO, CALIF.

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

June 15, 2015

Re: **Technical Report Responding to Section 13267 Order dated April1, 2015**
"D.C. Unit" 1, 4, 5, Deer Creek Oil Field, Tulare County

Dear Mr. Holcomb:

Enclosed please find the Technical Report responding to the Section 13267 Order date April 1, 2015.

Please contact me if you have questions.

Sincerely,

Burton R. Ellison

Burton R. Ellison, P.G.
Trustee, Mona J. Ellison Trust

Enclosure

TECHNICAL REPORT RESPONDING TO WATER CODE SECTION 13267 ORDER DATED April 1, 2015

Burton A. Ellison, Operator

"D. C. Unit" Lease
Deer Creek Oil Field
Tulare County

June 5, 2015

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

Submitted by: Burton R. Ellison

Burton R. Ellison, P.G. #7864

REGISTERED GEOLOGIST
BURTON R. ELLISON
10-31-16
NO. 7864
STATE OF CALIFORNIA

TECHNICAL REPORT RESPONDING TO WATER CODE SECTION 13267 ORDER DATED April 1, 2015

Burton A. Ellison, Operator

"D. C. Unit" Lease
Deer Creek Oil Field
Tulare County

June 5, 2015

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

Submitted by: _____

Burton R. Ellison, P.G. #7864

TECHNICAL REPORT RESPONDING TO WATER CODE SECTION 13267 ORDER DATED April 1, 2015

Burton A. Ellison, Operator
"D. C. Unit" Lease

A. Identification of any discharges of oil field produced waters to land, including but not limited to ponds, since April of 2014 that are not listed in Attachment A.

Since April 2014, only oilfield produced water has been discharged into the five ponds identified in Attachment A of the order.

B. Analysis of Oil field produced water

Oilfield produced water was collected at three sample locations, Pond 2 out fall, Pond 1, and from the lowest (15') sample valve on the wash tank. These sample locations were chosen to fully satisfy the order's requirements to collect and analyze a sample from each pond. Ponds 2, 3, 5, and 8 are in series, and as provided in the order, only the upstream pond was sampled at Pond 2 outfall location (see pond location map). All samples collected were tested for the constituents listed in Attachment B. Although not required to be sampled by the order, the wash tank sample was chosen because all fluids discharged to the ponds pass through this tank. Analysis for Pond 1, Pond 2 outfall, and D.C. Unit Wash Tank are attached.

C. Surface Impoundment(s) Information

Pond Number	Dimension (L x W x D)	Longitude (center of pond)	Latitude (center of pond)	Assessor's Parcel Number	Duration of discharge (months)	Annual discharge volume
Pond 1	80' x 22' x 7'	35.981364	-119.046096	302-340-008-000	intermittently throughout the year	Approximately 700 barrels
Pond 2	(Base, height, length) 72' x 120' x 72' 12' deep	35.980661	-119.048706	302-340-007-000	12	320,000 bbls
Pond 3	177' x 22' x 4'	35.980144	-119.048735	302-340-007-000	12	In series with pond 2
Pond 4	73' x 74' x 9'	35.980335	-119.049041	302-340-007-000	**Not in use - Dry**	**Not in use - Dry**
Pond 5	63' x 77' x 10'	35.980116	-119.049081	302-340-007-000	12	In series with pond 3
Pond 6	62' x 60' x 12'	35.979077	-119.049071	302-340-007-000	**Not in use - Dry**	**Not in use - Dry**
Pond 7	57' x 45' x 4'	35.980580	-119.048397	302-340-007-000	**Not in use - Dry**	**Not in use - Dry**
Pond 8	120' x 85' x 12'	35.979895	-119.048295	302-340-007-000	12	In series w/ pond 2 & 3

D. Location map of Ponds, Parcel map, Lease boundary Map

See attached Pond Location Map, Parcel Map/Lease Boundary Map.

Reporting Requirements

Four samples were collected for analysis from 3 sample locations.

Pond 1

Pond 1 was sampled on May 5, 2015, at 1502 by Burton R. Ellison. The sample location was at the west end of the pond 1 (see pond location map). At this point, the surface was free from oil and a water sample sufficient in volume to fill the 11 sample containers was obtained. The 11 sample containers were provided by Zalco Labs. The samples were immediately placed on ice and refrigerated overnight prior to delivery to the lab under a chain of custody the next morning. Zalco labs analyzed the samples for the constituents/compounds listed in Attachment B of the order.

Pond 2 Outfall

Pond 2 was sampled on October 16, 2014, by Ron Holcomb and Ryan West of the Central Valley Regional Water Quality Control Board and witnessed by Burton R. Ellison, operator's representative. Sample location was at the outflow pipe from pond 2 (see pond location map). Moore and Twining analyzed the sample for general minerals, boron, volatile organic compounds, and semi-volatile organic compounds.

On 5/21/2015 at 1715, a second sample was collected at this same location by Burton R. Ellison. The purpose of the sample was to complete the required analysis. A sample sufficient in volume to fill the 11 sample containers was obtained. The 11 sample containers were provided by Zalco Labs. The samples were immediately placed on ice and refrigerated overnight prior to delivery to the lab under a chain of custody the next morning. Zalco labs analyzed the samples for Cam 17, Total Petroleum Hydrocarbons, Trace elements, and Radionuclides. At the time of this writing, the Radionuclide results were not complete. These results along with the excel spreadsheet for the sample analysis will be forwarded as soon as they are available. Since the water at this location is the same as found in pond 1 and the wash tank, the radionuclide results are expected to be similar if not the same as these samples.

Wash Tank Sample

The wash tank was sampled on May 5, 2015, at 1610 by Burton R. Ellison. A sample sufficient in volume to fill the 11 sample containers was obtained. The 11 sample containers were provided by Zalco Labs. The samples were immediately placed on ice and refrigerated overnight prior to delivery to the lab under a chain of custody the next morning. Zalco labs analyzed the samples for the constituents/compounds listed in Attachment B of the order.

Conclusion

The analytical results found the oilfield produced water discharged to the ponds to be in compliance with the salinity limits prescribed by the WDRs.

Pond 1

Analysis

ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

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

Ellison, Burton A.	Project: Master	Work Order No.: 1505053
101 Starmount Ln.	Project #:	Reported: 05/29/2015
Bakersfield, CA 93309	Attention: Burton A. Ellison	Received: 05/06/2015 08:10

Lab Sample ID: 1505053-01	Collected By:
Client Sample ID: S1 D.C. Unit Sump 1	Date Collected: 5/5/2015 3:02:00PM

Analyte	Results	PQL		Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Alkalinity									
Total Alkalinity	130	10		mg/L		SM 2320B	5/6/15	5/6/15	SAM
Bicarbonate (HCO3)	96	10		mg/L		SM 2320B	5/6/15	5/6/15	SAM
Carbonate (CO3)	38	10		mg/L		SM 2320B	5/6/15	5/6/15	SAM
Hydroxide (OH)	<10	10		mg/L		SM 2320B	5/6/15	5/6/15	SAM
CAM, Toxicity (17 Metals)			*TTLC Limits*						
Antimony	<0.20	0.20	*500*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Arsenic	<0.020	0.020	*500*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Barium	<0.10	0.10	*10000*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Beryllium	<0.010	0.010	*75*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Cadmium	<0.010	0.010	*100*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Chromium	<0.050	0.050	*2500*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Cobalt	<0.10	0.10	*8000*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Copper	<0.050	0.050	*2500*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Lead	<0.050	0.050	*1000*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Mercury	<0.0020	0.0020	*20*	mg/L		SW846 7470A	5/7/15	5/7/15	SS
Molybdenum	<0.10	0.10	*3500*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Nickel	<0.050	0.050	*2000*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Selenium	<0.05	0.05	*100*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Silver	<0.020	0.020	*500*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Thallium	<0.50	0.50	*700*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Vanadium	<0.10	0.10	*2400*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Zinc	<0.050	0.050	*5000*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
General Chemistry			*MCL Limits*						
Fluoride	<0.10	0.10	*2*	mg/L		EPA 300.0	5/6/15	5/6/15	MSS
Nitrate as NO3	<2.00	2.00	*45*	mg/L		EPA 300.0	5/6/15	5/6/15	MSS
Electrical Conductivity	0.70	0.010		mmhos/cm		SM 2510B	5/6/15	5/6/15	SAM
Bromide	0.24	0.10		mg/L		EPA 300.0	5/6/15	5/6/15	MSS
Chloride	120	10		mg/L		EPA 300.0	5/6/15	5/6/15	MSS
pH	8.94			pH Units		EPA 150.1	5/6/15	5/6/15	SAM
Sulfate as SO4	7.6	0.50		mg/L		EPA 300.0	5/6/15	5/6/15	MSS
Total Dissolved Solids	420	10		mg/L		SM 2540C	5/8/15	5/6/15	MSS
Hardness									

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
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.

Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C. Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.

ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

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

Ellison, Burton A.	Project: Master	Work Order No.: 1505053
101 Starmount Ln.	Project #:	Reported: 05/29/2015
Bakersfield, CA 93309	Attention: Burton A. Ellison	Received: 05/06/2015 08:10

Lab Sample ID: 1505053-01	Collected By:
Client Sample ID: S1 D.C. Unit Sump 1	Date Collected: 5/5/2015 3:02:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Hardness								
Hardness (as CaCO3)	37	2.0	mg/L		SM 2340B	5/8/15	5/8/15	SS
Metals								
Lithium	<0.10	0.10	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Metals - As Received								
Magnesium	1.6	0.050	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Potassium	2.2	0.50	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Sodium	110	7.0	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Calcium	12	0.050	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Iron	0.18	0.10	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Boron	0.59	0.10	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Barium	<0.10	0.10	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Copper	0.052	0.050	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Silica (SiO2)	29	4.0	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Strontium	<0.10	0.10	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Manganese	0.075	0.030	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Petroleum Hydrocarbons								
Diesel Range Hydrocarbons	4.70	0.25	mg/L		SW846 8015B	5/11/15	5/12/15	JMM
Gasoline Range Hydrocarbons	<0.050	0.050	mg/L		SW846 8015B	5/18/15	5/18/15	HLP
Motor Oil Range Hydrocarbons	10.1	0.75	mg/L		SW846 8015B	5/11/15	5/12/15	JMM

Surrogates	% Recovery	Recovery Limits	Flag	
a,a,a-Trifluorotoluene	91.1	69-125		5/18/15 11:44

Semivolatile Organic Compounds								
Indeno(1,2,3-cd)pyrene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Naphthalene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Acenaphthylene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Acenaphthene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Fluorene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Phenanthrene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Anthracene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
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.

Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C. Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.

ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

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

Ellison, Burton A.	Project: Master	Work Order No.: 1505053
101 Starmount Ln.	Project #:	Reported: 05/29/2015
Bakersfield, CA 93309	Attention: Burton A. Ellison	Received: 05/06/2015 08:10

Lab Sample ID: 1505053-01	Collected By:
Client Sample ID: S1 D.C. Unit Sump 1	Date Collected: 5/5/2015 3:02:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
Fluoranthene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Pyrene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Benzo (a) anthracene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Chrysene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Benzo (b) fluoranthene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Benzo (k) fluoranthene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Benzo (a) pyrene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Dibenz (a,h) anthracene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Benzo (g,h,i) perylene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM

Surrogates	% Recovery	Recovery Limits	Flag	
Nitrobenzene-d5	58.8	0-95		5/7/15 11:20
2-Fluorobiphenyl	62.8	0-92		5/7/15 11:20
Terphenyl-d14	38.7	0-100		5/7/15 11:20

Subcontracted Analyses								
Gross Alpha	<15.0	15.0	pCi/L		SM 7110C	5/14/15	5/15/15	JMM
Radium-226	<3.00	3.00	pCi/L		E903.1	5/17/15	5/19/15	JMM
Radium-228	<2.00	2.00	pCi/L		EPA Ra-05	5/17/15	5/26/15	JMM
Uranium (ug/L)	<20.0	20.0	pCi/L		E908	5/21/15	5/22/15	JMM
Volatile Organic Compounds								
m,p-Xylene	<5.00	5.00	ug/L		SW846 8260B	5/8/15	5/8/15	HLP
Benzene	<5.00	5.00	ug/L		SW846 8260B	5/8/15	5/8/15	HLP
Xylenes, total	0.00		ug/L		SW846 8260B	5/8/15	5/8/15	HLP
Methyl tert-Butyl Ether	<5.00	5.00	ug/L		SW846 8260B	5/8/15	5/8/15	HLP
Ethylbenzene	<5.00	5.00	ug/L		SW846 8260B	5/8/15	5/8/15	HLP
Toluene	<5.00	5.00	ug/L		SW846 8260B	5/8/15	5/8/15	HLP
o-Xylene	<5.00	5.00	ug/L		SW846 8260B	5/8/15	5/8/15	HLP

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	113	89-165		5/8/15 9:08
Toluene-d8	101	65-124		5/8/15 9:08
4-Bromofluorobenzene	86.6*	94-114	S-GC	5/8/15 9:08

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
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.

Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C. Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.

Pond 2 Outfall

Analysis

MOORE TWINING ASSOCIATES, INC.

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

California ELAP Certificate #1371

RWQCB - Fresno	Project: 13-014-150	
1685 E Street	Project Number: Deer Creek Oil Field - DOGGR Sump List	Reported:
Fresno CA, 93706-2007	Project Manager: Anthony Toto	11/12/2014

REH141610-2

AJ17009-02 (Waste Water) Sampled:10/16/14 11:30

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Inorganics											
Total Alkalinity as CaCO3		130	1.0	0.23	mg/L	1	U4J1721	CMG	10/17/14 16:56	10/17/14 19:01	SM2320B
Bicarbonate Alkalinity as HCO3		150	1.3	0.23	mg/L	1	U4J1721	CMG	10/17/14 16:56	10/17/14 19:01	SM2320B
Carbonate Alkalinity as CO3		ND	1.0	0.23	mg/L	1	U4J1721	CMG	10/17/14 16:56	10/17/14 19:01	SM2320B
Hydroxide Alkalinity as OH		ND	1.0	0.23	mg/L	1	U4J1721	CMG	10/17/14 16:56	10/17/14 19:01	SM2320B
Cation/Anion Balance (% Difference)		1.3			%	1	U4K0311	JAA	11/3/14 15:02	11/3/14 15:04	CALC
Chloride		150	4.0	0.037	mg/L	2	U4J1722	ETH	10/17/14 17:03	10/17/14 20:47	EPA 300.0
Specific Conductance (EC)		760	1.0	0.26	µS/cm	1	U4J1721	CMG	10/17/14 16:56	10/17/14 19:01	SM2510B
Nitrate as NO3	J	0.31	4.0	0.035	mg/L	2	U4J1722	ETH	10/17/14 17:03	10/17/14 20:47	EPA 300.0
Nitrite as N		ND	0.60	0.021	mg/L	2	U4J1722	ETH	10/17/14 17:03	10/17/14 20:47	EPA 300.0
Orthophosphate as P		ND	0.50	0.0056	mg/L	2	U4J1722	ETH	10/17/14 17:03	10/17/14 20:47	EPA 300.0
Sulfate as SO4		6.0	4.0	0.019	mg/L	2	U4J1722	ETH	10/17/14 17:03	10/17/14 20:47	EPA 300.0
Total Dissolved Solids		420	10	8.1	mg/L	1	U4J2107	MVY	10/21/14 12:08	10/22/14 15:10	SM 2540C
Metals - Totals											
Boron		0.67	0.050	0.00083	mg/L	1	U4J2016	DAR	10/23/14 11:15	10/27/14 21:57	EPA 200.7
Calcium		8.0	0.10	0.0076	mg/L	1	U4J2016	DAR	10/23/14 11:15	10/27/14 21:57	EPA 200.7
Hardness		23	0.66		mg equiv. CaCO3/L	1	[CALC]	DAR	10/23/14 11:15	10/27/14 21:57	[CALC]
Iron		ND	0.10	0.017	mg/L	1	U4J2016	DAR	10/23/14 11:15	10/27/14 21:57	EPA 200.7
Magnesium		0.68	0.10	0.0091	mg/L	1	U4J2016	DAR	10/23/14 11:15	10/27/14 21:57	EPA 200.7
Manganese		0.041	0.0050	0.00017	mg/L	1	U4J2016	DAR	10/23/14 11:15	10/27/14 21:57	EPA 200.7
Potassium	J	0.92	1.0	0.077	mg/L	1	U4J2016	DAR	10/23/14 11:15	10/27/14 21:57	EPA 200.7
Sodium		150	1.0	0.26	mg/L	1	U4J2016	DAR	10/23/14 11:15	10/27/14 21:57	EPA 200.7
Semi-Volatile Organics											
N-Nitrosodimethylamine		ND	5.0	1.4	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Phenol		ND	5.0	0.63	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Bis(2-chloroethyl)ether		ND	5.0	0.51	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
2-Chlorophenol		ND	5.0	0.69	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
1,3-Dichlorobenzene		ND	5.0	0.29	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
1,4-Dichlorobenzene		ND	5.0	0.59	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
1,2-Dichlorobenzene		ND	5.0	0.32	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Bis(2-chloroisopropyl)ether		ND	5.0	0.46	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
2-Methylphenol		ND	5.0	0.93	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Hexachloroethane		ND	5.0	0.98	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C

MOORE TWINING ASSOCIATES, INC.

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

California ELAP Certificate #1371

RWQCB - Fresno	Project: 13-014-150	
1685 E Street	Project Number: Deer Creek Oil Field - DOGGR Sump List	Reported:
Fresno CA, 93706-2007	Project Manager: Anthony Toto	11/12/2014

REH141610-2

AJ17009-02 (Waste Water) Sampled:10/16/14 11:30

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
3-Methylphenol		ND	5.0	0.96	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
4-Methylphenol		ND	5.0	1.1	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
N-Nitrosodi-n-propylamine		ND	5.0	0.36	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Nitrobenzene		ND	5.0	0.66	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Isophorone		ND	5.0	0.42	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
2-Nitrophenol		ND	5.0	1.3	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
2,4-Dimethylphenol		ND	5.0	1.2	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Bis(2-chloroethoxy)methane		ND	5.0	0.28	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
2,4-Dichlorophenol		ND	5.0	0.79	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
1,2,4-Trichlorobenzene		ND	5.0	0.22	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Naphthalene		ND	5.0	0.29	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
4-Chloroaniline		ND	5.0	0.78	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Hexachlorobutadiene		ND	5.0	0.62	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
4-Chloro-3-methylphenol		ND	5.0	0.57	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
2-Methylnaphthalene		ND	5.0	0.35	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Hexachlorocyclopentadiene		ND	5.0	0.83	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
2,4,5-Trichlorophenol		ND	5.0	2.3	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
2,4,6-Trichlorophenol		ND	5.0	2.5	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
2-Chloronaphthalene		ND	5.0	0.29	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
2-Nitroaniline		ND	5.0	0.88	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Dimethyl phthalate		ND	5.0	0.27	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Acenaphthylene		ND	5.0	0.27	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
2,6-Dinitrotoluene		ND	5.0	1.0	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
3-Nitroaniline		ND	5.0	0.98	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Acenaphthene		ND	5.0	0.59	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
2,4-Dinitrophenol		ND	5.0	1.9	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Dibenzofuran		ND	5.0	0.21	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
4-Nitrophenol		ND	5.0	1.6	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
2,4-Dinitrotoluene		ND	5.0	0.70	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Fluorene		ND	5.0	0.50	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Diethyl phthalate		ND	5.0	0.32	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
4-Chlorophenyl phenyl ether		ND	5.0	0.45	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
4-Nitroaniline		ND	5.0	1.6	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Diphenylamine		ND	5.0	0.48	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C

MOORE TWINING ASSOCIATES, INC.

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

California ELAP Certificate #1371

RWQCB - Fresno	Project: 13-014-150	
1685 E Street	Project Number: Deer Creek Oil Field - DOGGR Sump List	Reported:
Fresno CA, 93706-2007	Project Manager: Anthony Toto	11/12/2014

REH141610-2

AJ17009-02 (Waste Water) Sampled:10/16/14 11:30

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
1,2-Diphenylhydrazine		ND	5.0	0.49	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Benzidine		ND	5.0	1.2	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
N-Nitrosodiphenylamine		ND	5.0	0.58	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
4,6-Dinitro-2-methylphenol		ND	5.0	0.51	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
4-Bromophenyl phenyl ether		ND	5.0	0.52	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Hexachlorobenzene		ND	5.0	0.42	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Pentachlorophenol		ND	5.0	1.3	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Phenanthrene		ND	5.0	0.26	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Anthracene		ND	5.0	0.31	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Di-n-butyl phthalate	J	**1.3**	5.0	0.65	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Fluoranthene		ND	5.0	0.34	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Pyrene		ND	5.0	0.26	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Butyl benzyl phthalate		ND	5.0	0.76	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Benzo (a) anthracene		ND	5.0	0.56	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Chrysene		ND	5.0	0.25	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Bis(2-ethylhexyl) phthalate		ND	5.0	0.58	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Di-n-octyl phthalate		ND	5.0	0.36	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Benzo (b) fluoranthene		ND	5.0	0.67	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Benzo (k) fluoranthene		ND	5.0	0.70	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Benzo (a) pyrene		ND	5.0	0.46	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
3,3'-Dichlorobenzidine		ND	5.0	1.1	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Indeno(1,2,3-cd)pyrene		ND	5.0	0.58	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Dibenzo(a,h)anthracene		ND	5.0	0.39	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Benzo(ghi)perylene		ND	5.0	0.36	µg/L	1	U4J2907	FFP	10/29/14 9:27	10/31/14 17:19	EPA 8270C
Surrogate: 2-Fluorophenol	HT	*41.7 %*	*22-92*				*U4J2907*		10/29/14 9:27	10/31/14 17:19	*EPA 8270C*
Surrogate: Phenol-d5	HT	*30.5 %*	*10-94*				*U4J2907*		10/29/14 9:27	10/31/14 17:19	*EPA 8270C*
Surrogate: Nitrobenzene-d5	HT	*62.4 %*	*41-110*				*U4J2907*		10/29/14 9:27	10/31/14 17:19	*EPA 8270C*
Surrogate: 2-Fluorobiphenyl	HT	*65.4 %*	*40-92*				*U4J2907*		10/29/14 9:27	10/31/14 17:19	*EPA 8270C*
Surrogate: 2,4,6-Tribromophenol	HT	*88.2 %*	*49-138*				*U4J2907*		10/29/14 9:27	10/31/14 17:19	*EPA 8270C*
Surrogate: d14-Terphenyl	HT	*84.0 %*	*44-131*				*U4J2907*		10/29/14 9:27	10/31/14 17:19	*EPA 8270C*
Volatile Organics											
Dichlorodifluoromethane (CFC-12)		ND	0.50	0.19	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
Chloromethane		ND	0.50	0.16	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B

Moore Twining Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

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.

MOORE TWINING ASSOCIATES, INC.

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

California ELAP Certificate #1371

RWQCB - Fresno	Project: 13-014-150	
1685 E Street	Project Number: Deer Creek Oil Field - DOGGR Sump List	Reported:
Fresno CA, 93706-2007	Project Manager: Anthony Toto	11/12/2014

REH141610-2

AJ17009-02 (Waste Water) Sampled:10/16/14 11:30

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Volatile Organics											
Vinyl chloride		ND	0.50	0.16	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
Bromomethane		ND	1.0	0.32	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
Chloroethane		ND	0.50	0.16	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
1,1-Dichloroethene		ND	0.50	0.14	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
Carbon disulfide		ND	0.50	0.14	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
Acrolein		ND	10	1.5	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
Methylene chloride		ND	1.0	0.20	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
trans-1,2-Dichloroethene		ND	0.50	0.11	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
Methyl tert-Butyl Ether (MTBE)		ND	1.0	0.36	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
1,1-Dichloroethane		ND	0.50	0.12	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
Acrylonitrile		ND	5.0	2.9	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
cis-1,2-Dichloroethene		ND	0.50	0.15	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
2,2-Dichloropropane		ND	1.0	0.24	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
Bromochloromethane		ND	0.50	0.20	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
Chloroform		ND	0.50	0.14	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
Carbon tetrachloride		ND	0.50	0.16	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
1,1,1-Trichloroethane (TCA)		ND	0.50	0.16	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
1,1-Dichloropropene		ND	0.50	0.12	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
Benzene		ND	0.50	0.10	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
1,2-Dichloroethane (1,2-DCA)		ND	0.50	0.10	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
Trichloroethene (TCE)		ND	0.50	0.17	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
Dibromomethane		ND	0.50	0.14	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
1,2-Dichloropropane		ND	0.50	0.10	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
Bromodichloromethane		ND	0.50	0.13	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
cis-1,3-Dichloropropene		ND	0.50	0.11	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
Toluene		ND	0.50	0.27	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
trans-1,3-Dichloropropene		ND	0.50	0.14	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
Tetrachloroethene (PCE)		ND	0.50	0.12	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
Dibromochloromethane		ND	0.50	0.11	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
1,3-Dichloropropane		ND	0.50	0.10	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
1,2-Dibromoethane (EDB)		ND	0.50	0.22	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
Ethylbenzene		ND	0.50	0.10	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
Chlorobenzene		ND	0.50	0.10	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
1,1,1,2-Tetrachloroethane		ND	0.50	0.12	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B

Moore Twining Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

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.

MOORE TWINING ASSOCIATES, INC.

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

California ELAP Certificate #1371

RWQCB - Fresno	Project: 13-014-150	
1685 E Street	Project Number: Deer Creek Oil Field - DOGGR Sump List	Reported:
Fresno CA, 93706-2007	Project Manager: Anthony Toto	11/12/2014

REH141610-2

AJ17009-02 (Waste Water) Sampled:10/16/14 11:30

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Volatile Organics											
m,p-Xylene		ND	1.0	0.20	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
o-Xylene		ND	0.50	0.10	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
Bromoform		ND	1.0	0.12	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
Isopropylbenzene		ND	1.0	0.10	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
Bromobenzene		ND	0.50	0.10	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
n-Propylbenzene		ND	1.0	0.10	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
1,3,5-Trimethylbenzene		ND	0.50	0.11	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
2-Chlorotoluene		ND	0.50	0.10	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
1,2,3-Trichloropropane (123TCP)		ND	0.50	0.29	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
4-Chlorotoluene		ND	0.50	0.10	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
tert-Butylbenzene		ND	1.0	0.10	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
1,2,4-Trimethylbenzene		ND	1.0	0.10	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
sec-Butylbenzene		ND	0.50	0.10	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
p-Isopropyltoluene		ND	1.0	0.10	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
1,3-Dichlorobenzene		ND	0.50	0.040	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
1,4-Dichlorobenzene		ND	0.50	0.10	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
n-Butylbenzene		ND	0.50	0.13	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
1,2-Dichlorobenzene		ND	0.50	0.12	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)		ND	5.0	0.39	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
1,2,4-Trichlorobenzene		ND	1.0	0.10	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
Hexachlorobutadiene		ND	1.0	0.10	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
Naphthalene		ND	0.50	0.15	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
1,2,3-Trichlorobenzene		ND	0.50	0.10	µg/L	1	U4J2109	GAB	10/21/14 11:00	10/21/14 16:47	EPA 8260B
Surrogate: 4-Bromofluorobenzene		*91.4 %*	*70-130*				*U4J2109*		10/21/14 11:00	10/21/14 16:47	*EPA 8260B*
Surrogate: Dibromofluoromethane		*84.6 %*	*70-130*				*U4J2109*		10/21/14 11:00	10/21/14 16:47	*EPA 8260B*
Surrogate: Toluene-d8		*95.1 %*	*70-130*				*U4J2109*		10/21/14 11:00	10/21/14 16:47	*EPA 8260B*

MOORE TWINING ASSOCIATES, INC.

ANALYTICAL CHEMISTRY DIVISION
CALIFORNIA ELAP CERTIFICATION # 1371

CHAIN OF CUSTODY/ANALYSIS REQUEST

2527 FRESNO STREET • FRESNO, CA 93721 • PHONE (559) 268-7021 • FAX: (559) 268-0740

WORK ORDER #: AJ12009
PAGE 1 **OF** 3

Ronald.Holcomb@waterboards.ca.gov

REPORT TO: ■ INVOICE TO: ☐ REPORT COPY TO: REPORTING:

REPORT TO	INVOICE TO	REPORTING
ATTENTION: Ron Holcomb (Ron.Holcomb@waterboards.ca.gov)	ATTENTION: Anthony Toto	☐ STANDARD FORMAT
NAME: Central Valley Water Board	NAME: Central Valley Water Board	☐ WRITE-ON (STATE FORM)
ADDRESS: 1685 E Street	ADDRESS: 1685 E Street	☐ GEOTRACKER/COELT (LUFT)
Fresno, CA 93706	Fresno, CA 93706	☒ PDF ☐ SPREADSHEET
PHONE: 559-445-6050	PHONE: 559-445-6278	☐ County DHS :
FAX: 559-445-5910	FAX: 559-445-5910	☐ Environmental Health Agency :
		☐ OTHER:

SAMPLE INFORMATION

SAMPLED BY (PRINT):

SIGNATURE:

☐ PUBLIC SYSTEM ☐ ROUTINE
☐ PRIVATE WELL ☐ REPEAT
☐ OTHER ☐ REPLACEMENT

TURN AROUND TIME: ☐ RUSH, DUE ON:
☒ STANDARD

SAMPLE TYPES:

SOLID:
BS – BIOSOLID
CR – CERAMIC
SL – SOIL/SOLID

LIQUID:
DW - DRINKING WATER
GW - GROUND WATER
OL - OIL
SF - SURFACE WATER
ST - STORM WATER
WW – WASTE WATER

PROJECT INFORMATION

CONTRACT/P.O. NO.: 13-014-150

PROJECT: Deer Creek Oil Field – DOGGR Sump List

PROJECT NUMBER:

PROJECT MANAGER:

ANALYSIS REQUESTED

LAB USE

NOTES ON RECEIVED CONDITION:
☐ CUSTODY SEAL(S) BROKEN ☐ SAMPLE(S) DAMAGED
☐ ON ICE ☐ AMBIENT TEMP. ☐ INCORRECT PRESERVATION

	CLIENT SAMPLE ID	DATE	TIME	TYPE	General Minerals	8260B	8270C								
1	REH141610-1	10/16/2014	10:35am	WW	X	X									PENTARCH
2	REH141610-2	10/16/2014	11:30am	WW	X	X	X								B. ELLISON
3	REH141610-3	10/16/2014	1:10pm	WW	X	X									BINION
4	REH141610-4	10/16/2014	2:50pm	WW	X	X	X								MODUS
5	REH141610-5	10/16/2014	3:30pm	WW	X	X									SMILODON

COMMENTS/ADDITIONAL INSTRUCTIONS:

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY
Ronald R. Holcomb	RWQCB				
		10/16/14	1120	[illegible]	[illegible]

ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

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

Ellison, Burton A.	Project: RWQCB Oilfield Ponds - 2Q2015	Work Order No.: 1505289
101 Starmount Ln.	Project #:	Reported: 06/10/2015
Bakersfield, CA 93309	Attention: Burton A. Ellison	Received: 05/22/2015 13:00

Lab Sample ID: 1505289-01	Collected By: Burton R. Ellison
Client Sample ID: S2 D.C. Unit Sump 2 Outfall	Date Collected: 5/21/2015 5:15:00PM

Analyte	Results	PQL	TTLC Limits	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
CAM, Toxicity (17 Metals)									
Antimony	<0.20	0.20	*500*	mg/L		SW846 6010B	5/22/15	5/26/15	SS
Arsenic	<0.020	0.020	*500*	mg/L		SW846 6010B	5/22/15	5/26/15	SS
Barium	<0.10	0.10	*10000*	mg/L		SW846 6010B	5/22/15	5/26/15	SS
Beryllium	<0.010	0.010	*75*	mg/L		SW846 6010B	5/22/15	5/26/15	SS
Cadmium	<0.010	0.010	*100*	mg/L		SW846 6010B	5/22/15	5/26/15	SS
Chromium	<0.050	0.050	*2500*	mg/L		SW846 6010B	5/22/15	5/26/15	SS
Cobalt	<0.10	0.10	*8000*	mg/L		SW846 6010B	5/22/15	5/26/15	SS
Copper	0.057	0.050	*2500*	mg/L		SW846 6010B	5/22/15	5/26/15	SS
Lead	<0.050	0.050	*1000*	mg/L		SW846 6010B	5/22/15	5/26/15	SS
Mercury	<0.0020	0.0020	*20*	mg/L		SW846 7470A	5/26/15	5/26/15	SS
Molybdenum	<0.10	0.10	*3500*	mg/L		SW846 6010B	5/22/15	5/26/15	SS
Nickel	0.058	0.050	*2000*	mg/L		SW846 6010B	5/22/15	5/26/15	SS
Selenium	<0.05	0.05	*100*	mg/L		SW846 6010B	5/22/15	5/26/15	SS
Silver	<0.020	0.020	*500*	mg/L		SW846 6010B	5/22/15	5/26/15	SS
Thallium	<0.50	0.50	*700*	mg/L		SW846 6010B	5/22/15	5/26/15	SS
Vanadium	<0.10	0.10	*2400*	mg/L		SW846 6010B	5/22/15	5/26/15	SS
Zinc	<0.050	0.050	*5000*	mg/L		SW846 6010B	5/22/15	5/26/15	SS
Metals									
Boron	0.58	0.10		mg/L		SW846 6010B	5/22/15	6/3/15	SS
Iron	<0.10	0.10		mg/L		SW846 6010B	5/22/15	6/3/15	SS
Lithium	<0.10	0.10		mg/L		SW846 6010B	5/22/15	6/3/15	SS
Manganese	0.043	0.030		mg/L		SW846 6010B	5/22/15	6/3/15	SS
Strontium	<0.10	0.10		mg/L		SW846 6010B	5/22/15	6/3/15	SS
Petroleum Hydrocarbons									
Gasoline Range Hydrocarbons	<0.050	0.050		mg/L		SW846 8015B	6/4/15	6/4/15	HLP

Surrogates	% Recovery	Recovery Limits	Flag	
a,a,a-Trifluorotoluene	81.7	69-125		6/4/15 8:26

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
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.

Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C. Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.

ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

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

Ellison, Burton A.	Project: RWQCB Oilfield Ponds - 2Q2015	Work Order No.: 1505289
101 Starmount Ln.	Project #:	Reported: 06/10/2015
Bakersfield, CA 93309	Attention: Burton A. Ellison	Received: 05/22/2015 13:00

Lab Sample ID: 1505289-02	Collected By: Burton R. Ellison
Client Sample ID: S2 D.C. Unit Sump 2 Outfall	Date Collected: 6/9/2015 12:10:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Petroleum Hydrocarbons								
Diesel Range Hydrocarbons	1.96	0.05	mg/L		SW846 8015B	6/9/15	6/9/15	BIG
Motor Oil Range Hydrocarbons	5.49	0.15	mg/L		SW846 8015B	6/9/15	6/9/15	BIG

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
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.

Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C. Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.

ZALCO LABORATORIES, INC.
4309 Armour Avenue, Bakersfield, CA 93308 (661) 395-0539 FAX (661) 395-3069 www.zalcolabs.com

CHAIN OF CUSTODY, ID# 1505289

Page 1 of 1
Zalco Lab # 1505289
Client PO #
PROJECT ID:
QUOTE ID:

REPORT INFO	INVOICE INFO
Client: Burton A. Ellison	Invoice To: Same as Client ☑
Address: 101 Starmount Lane	Address:
City, State, Zip: Bakersfield, CA 93304	City, State, Zip:
Attention: Burton R. Ellison	Attention:
Phone: Results ☐	Phone: 661-809-7548
Fax: Results ☐	Fax:
Email: Results ☒	Email: bellison101@aol.com

SAMPLED BY: EMPLOYED BY:

COMMENTS:
Turnaround Time: Routine 10 working days ☒
Rush By _____ working days
Send Copy to State of CA? Yes ☐ No ☒
Attention To:
Send Copy to County? Yes ☐ No ☒
County

Sample No.*	Sample Description	Date	Sample Time	Type*	# OF CONTAINERS	See Attached	items B, D, F, & I	TPH						TEMPERATURE (C°)
S2	D.C. Unit Sump 2 outfall	5/21/15	1715	WW	7	X	X							13.0
S2	D.C. Unit Sump 2 Outfall	6/9	1210	W	3			X						

Logged In Rubbed Prime
Scanned Short Hold Time
☐ ☐

RELINQUISHED By: Signature	PRINT	COMPANY	Date	Time	RECEIVED By: Signature	PRINT
Burton R. Ellison	Burton R. Ellison	B.A. Ellison	5/22/15	1300	[signature]	F Johnson
Burton R. Ellison	Burton R. Ellison	B.A. Ellison	6/9	1330	[signature]	K Springman

Samples are discarded 30 days after results unless other ...s are made. Hazardous samples will be returned to client ... the client's expense.

*Sample Type Key: AQ-Aqueous; BS-Biosolid; DW-Drinking Water; GW-Ground Water; G-Gas; LPG-Liquid Petroleum Gas; OL-Oil; O-Other; P-Petroleum; S-Soil/Solid; ST-Storm Water; WW-Wastewater
*Sample No.: FOR OFFICE USE ONLY

Wash Tank

Analysis

ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

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

Ellison, Burton A.	Project: Master	Work Order No.: 1505053
101 Starmount Ln.	Project #:	Reported: 05/29/2015
Bakersfield, CA 93309	Attention: Burton A. Ellison	Received: 05/06/2015 08:10

Lab Sample ID: 1505053-03	Collected By:
Client Sample ID: WT D.C. Unit Wash Tank	Date Collected: 5/5/2015 4:10:00PM

Analyte	Results	PQL		Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Alkalinity									
Total Alkalinity	120	10		mg/L		SM 2320B	5/6/15	5/6/15	SAM
Bicarbonate (HCO3)	120	10		mg/L		SM 2320B	5/6/15	5/6/15	SAM
Carbonate (CO3)	<10	10		mg/L		SM 2320B	5/6/15	5/6/15	SAM
Hydroxide (OH)	<10	10		mg/L		SM 2320B	5/6/15	5/6/15	SAM
CAM, Toxicity (17 Metals)			*TTLC Limits*						
Antimony	<0.20	0.20	*500*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Arsenic	<0.020	0.020	*500*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Barium	<0.10	0.10	*10000*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Beryllium	<0.010	0.010	*75*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Cadmium	<0.010	0.010	*100*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Chromium	<0.050	0.050	*2500*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Cobalt	<0.10	0.10	*8000*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Copper	<0.050	0.050	*2500*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Lead	<0.050	0.050	*1000*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Mercury	<0.0020	0.0020	*20*	mg/L		SW846 7470A	5/7/15	5/7/15	SS
Molybdenum	<0.10	0.10	*3500*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Nickel	<0.050	0.050	*2000*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Selenium	<0.05	0.05	*100*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Silver	<0.020	0.020	*500*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Thallium	<0.50	0.50	*700*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Vanadium	<0.10	0.10	*2400*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
Zinc	0.20	0.050	*5000*	mg/L		SW846 6010B	5/8/15	5/12/15	SS
General Chemistry			*MCL Limits*						
Fluoride	<0.10	0.10	*2*	mg/L		EPA 300.0	5/6/15	5/6/15	MSS
Nitrate as NO3	<2.00	2.00	*45*	mg/L		EPA 300.0	5/6/15	5/6/15	MSS
Electrical Conductivity	0.77	0.010		mmhos/cm		SM 2510B	5/6/15	5/6/15	SAM
Bromide	0.28	0.10		mg/L		EPA 300.0	5/6/15	5/6/15	MSS
Chloride	150	10		mg/L		EPA 300.0	5/6/15	5/6/15	MSS
pH	8.06			pH Units		EPA 150.1	5/6/15	5/6/15	SAM
Sulfate as SO4	4.7	0.50		mg/L		EPA 300.0	5/6/15	5/6/15	MSS
Total Dissolved Solids	440	10		mg/L		SM 2540C	5/6/15	5/6/15	MSS
Hardness									

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
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 entirely.

Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C. Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.

ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

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

Ellison, Burton A.	Project: Master	Work Order No.: 1505053
101 Starmount Ln.	Project #:	Reported: 05/29/2015
Bakersfield, CA 93309	Attention: Burton A. Ellison	Received: 05/06/2015 08:10

Lab Sample ID: 1505053-03	Collected By:
Client Sample ID: WT D.C. Unit Wash Tank	Date Collected: 5/5/2015 4:10:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Hardness								
Hardness (as CaCO3)	24	2.0	mg/L		SM 2340B	5/8/15	5/8/15	SS
Metals								
Lithium	<0.10	0.10	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Metals - As Received								
Magnesium	0.70	0.050	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Potassium	1.2	0.50	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Sodium	150	7.0	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Calcium	8.5	0.050	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Iron	<0.10	0.10	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Boron	0.74	0.10	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Barium	<0.10	0.10	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Copper	<0.050	0.050	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Silica (SiO2)	18	4.0	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Strontium	<0.10	0.10	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Manganese	0.033	0.030	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Petroleum Hydrocarbons								
Diesel Range Hydrocarbons	62.8	2.50	mg/L		SW846 8015B	5/11/15	5/12/15	JMM
Gasoline Range Hydrocarbons	<0.050	0.050	mg/L		SW846 8015B	5/18/15	5/18/15	HLP
Motor Oil Range Hydrocarbons	124	7.50	mg/L		SW846 8015B	5/11/15	5/12/15	JMM

Surrogates	% Recovery	Recovery Limits	Flag		
a,a,a-Trifluorotoluene	103	69-125			5/18/15 11:44

Semivolatile Organic Compounds								
Indeno(1,2,3-cd)pyrene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Naphthalene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Acenaphthylene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Acenaphthene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Fluorene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Phenanthrene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Anthracene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
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.

Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C. Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.

ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

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

Ellison, Burton A.	Project: Master	Work Order No.: 1505053
101 Starmount Ln.	Project #:	Reported: 05/29/2015
Bakersfield, CA 93309	Attention: Burton A. Ellison	Received: 05/06/2015 08:10

Lab Sample ID: 1505053-03	Collected By:
Client Sample ID: WT D.C. Unit Wash Tank	Date Collected: 5/5/2015 4:10:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
Fluoranthene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Pyrene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Benzo (a) anthracene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Chrysene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Benzo (b) fluoranthene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Benzo (k) fluoranthene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Benzo (a) pyrene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Dibenz (a,h) anthracene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Benzo (g,h,i) perylene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM

Surrogates	% Recovery	Recovery Limits	Flag	
Nitrobenzene-d5	61.7	0-95		5/7/15 11:20
2-Fluorobiphenyl	56.6	0-92		5/7/15 11:20
Terphenyl-d14	115*	0-100	S-GC	5/7/15 11:20

Subcontracted Analyses								
Gross Alpha	<15.0	15.0	pCi/L		SM 7110C	5/14/15	5/15/15	JMM
Radium-226	<3.00	3.00	pCi/L		E903.1	5/17/15	5/19/15	JMM
Radium-228	<2.00	2.00	pCi/L		EPA Ra-05	5/17/15	5/26/15	JMM
Uranium (ug/L)	<20.0	20.0	pCi/L		E908	5/21/15	5/22/15	JMM
Volatile Organic Compounds								
m,p-Xylene	<5.00	5.00	ug/L		SW846 8260B	5/8/15	5/8/15	HLP
Benzene	<5.00	5.00	ug/L		SW846 8260B	5/8/15	5/8/15	HLP
Xylenes, total	0.00		ug/L		SW846 8260B	5/8/15	5/8/15	HLP
Methyl tert-Butyl Ether	<5.00	5.00	ug/L		SW846 8260B	5/8/15	5/8/15	HLP
Ethylbenzene	<5.00	5.00	ug/L		SW846 8260B	5/8/15	5/8/15	HLP
Toluene	<5.00	5.00	ug/L		SW846 8260B	5/8/15	5/8/15	HLP
o-Xylene	<5.00	5.00	ug/L		SW846 8260B	5/8/15	5/8/15	HLP

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	101	89-165		5/8/15 9:08
Toluene-d8	88.6	65-124		5/8/15 9:08
4-Bromofluorobenzene	95.1	94-114		5/8/15 9:08

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
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.

Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C. Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.

ZALCO LABORATORIES, INC.
4309 Armour Avenue, Bakersfield, CA 93308 (661) 395-0539 FAX (661) 395-3069 www.zalcolabs.com

CHAIN OF CUSTODY, ID# 1505053

Page _____ of _____
Zalco Lab # _____
Client PO # _____
PROJECT ID: _____
QUOTE ID: _____

REPORT INFO	INVOICE INFO
Client: Burton A. Ellison	Invoice To: Same as Client ☒
Address: 101 Starmount Lane	Address:
City, State, Zip: Bakersfield, CA 93309	City, State, Zip:
Attention: Burton R. Ellison	Attention:
Phone: Results ☐	Phone: 661-809-7548
Fax: Results ☒	Fax: 661-616-6178
Email: Results ☒	Email: bellison101@aol.com

SAMPLED BY: Burton R. Ellison EMPLOYED BY: Burton A. Ellison

COMMENTS:
Turnaround Time:
Routine 10 working days ☒
Rush By _____ working days
Send Copy to State of CA? Yes ☐ No ☐
Attention To: _____
Send Copy to County? Yes ☐ No ☐
County _____

Sample No.*	Sample Description	Date	Sample Time	Type*	# OF CONTAINERS	ANALYSIS: See Attachment B from Water Board 13267 Order	TEMPERATURE (C°)
S1	D.C. Unit Sump 1	5/5/15	1502	WW	11	All items Attachment B	9.2
S2	D.C. Unit Sump2 outfall	5/5/15	1520	WW	8	Exclude C & E on Attachment B	
WT1	D.C. Unit Wash tank	5/5/15	1610	WW	11	All items on Attachment B	

Logged to Shipped Printed
Scanned Short Hold Time

RELINQUISHED By: Signature	PRINT	COMPANY	Date	Time	RECEIVED By: Signature	PRINT
Burton R. Ellison	Burton R. Ellison	B.A. Ellison	5/6	810	[signature]	K Springman

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

*Sample Type Key: AQ-Aqueous; BS-Biosolid; DW-Drinking Water; GW-Ground Water; G-Gas; LPG-Liquid Petroleum Gas; OL-Oil; O-Other; P-Petroleum; S-Soil/Solid; ST-Storm Water; WW-Wastewater
*Sample No.: FOR OFFICE USE ONLY

Burton A. Ellison, Operator
"D.C. Unit" Lease
Deer Creek Oil Field
Pond Location Map
SE 1/4 Section 27, T22S, R27E, MDB&M

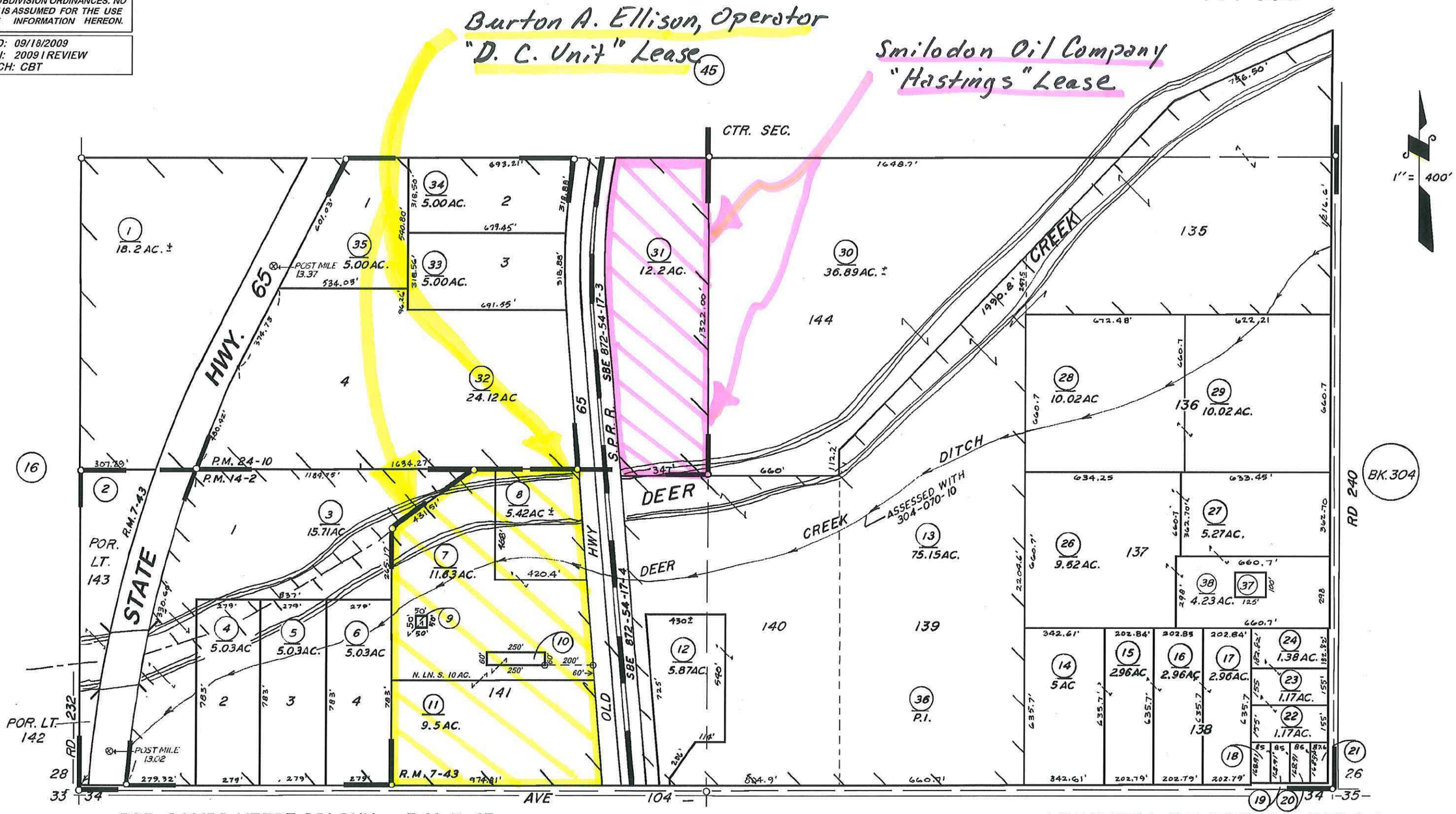
DISCLAIMER

THIS MAP WAS PREPARED FOR LOCAL PROPERTY ASSESSMENT PURPOSES ONLY. THE PARCELS SHOWN HEREON MAY NOT COMPLY WITH STATE AND LOCAL SUBDIVISION ORDINANCES. NO LIABILITY IS ASSUMED FOR THE USE OF THE INFORMATION HEREON.

REVISED: 09/18/2009
REASON: 2009 I REVIEW
CAD TECH: CBT

S 1/2 SEC. 27, T.22S., R.27E., M.D.B.& M.

TAX CODE AREA 302-34
094-000
144-001
144-006



POR. CAMPO VERDE COLONY, R.M. 7-43
PARCEL MAP 1301, P.M. 14-2
PARCEL MAP 2309, P.M. 24-10
POR. RECORD OF SURVEY, L.S. 26-26 (STATE HWY. 65)

VICINITY OF TERRA BELLA
ASSESSOR'S MAPS BK. 302 PG. 34
COUNTY OF TULARE, CALIF.

NOTE — ASSESSOR'S BLOCK NUMBERS SHOWN IN ELLIPSES
ASSESSOR'S PARCEL NUMBERS SHOWN IN CIRCLES