

Engineers Oil Company

5508 Via Ravenna
Bakersfield, California 93312
(661) 477-2119

June 22, 2015

Ronald Holcomb
Central Valley Water Board
1685 E Street
Fresno, CA 93706

RE: Addendum to Technical Report

via email: omar.erekat@waterboards.ca.gov

Dear Mr. Holcolm:

Omar Erekat telephoned me and requested the followed additional data with respect to my Technical Report I submitted on May 12:

1. Location of Sample: The sample was taken from the west side Pond 1 (the upstream pond) at the pipe outflow from the wash tanks.
2. Ponds in Series: Pond 1 is in series with Pond 2, that is, water from Pond 1 goes into Pond 2.
3. Other inflows: There are no other inflows into the two ponds.

I certify under penalty of law that this document and all 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.

Sincerely,



Mark A. Smith
Manager

Mark Smith

From: Mark Smith <marksmith@bak.rr.com>
Sent: Wednesday, May 13, 2015 10:05 AM
To: 'ron.holcomb@waterboards.ca.gov'; 'ronald.holcomb@waterboards.ca.gov'
Subject: Excel Spreadsheet
Attachments: Engineers Oil Company sump water analysis for Water Board.xls

Ronald:

The directions for analyzing and submitting water quality data to the Board pursuant to section 13267 include sending an Excel spreadsheet electronically. I am sending it to your email address since there is no other direction on submitting this spreadsheet.

I will put my technical report in the mail today.

Mark Smith
Engineers Oil Company

RECEIVED
MAY 15 2015
RWOCB-CVR
FRESNO, CALIF.

Engineers Oil Company

5508 Via Ravenna
Bakersfield, California 93312
(661) 477-2119
marksmith@bak.rr.com

May 12, 2015

Ronald Holcomb
Central Valley Water Board
1685 E Street
Fresno, CA 93706

RE: Technical Report pursuant to California Water Code Section 13267

Dear Mr. Holcolm:

Transmitted herewith is the Technical Report required by the letter from the Central Valley Water Board to Engineers Oil Company dated April 1, 2015.

According to Regional Water Board staff, the requirement to have to the report signed and stamped by a registered Civil Engineer or Geologist is only in the event that the report contains conclusions or recommendations. This report contains no such conclusions or recommendations and therefore is not signed and stamped. If this information is not correct, or if you have any questions, please contact me.

Sincerely,



Mark A. Smith
Manager

Enclosure

Engineers Oil Company

Surface Pond Technical Report

Date: May 12, 2015

The following information responds to the requirements contained in the letter from the Central Valley Water Board to Engineers Oil Company dated April 1, 2015:

- 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

No such discharges have occurred.

- B. Collect representative samples of wastewater within each of the ponds. Samples must be analyzed in accordance with the water quality analysis and reporting requirements contained in Attachment B to this Order

See the enclosed report from Zalco Laboratories, Inc. dated May 12, 2015. As requested, the results will also be transmitted to the Water Board in an Excel format.

- C. All available information for each of the surface impoundment(s), including dimensions (i.e., length, width, and depth), latitude and longitude, Assessor's Parcel Numbers of the lease, duration of the discharge (in months), and the volume of wastewater discharged per year.

1. Dimensions: Pond 1: length-35' width-15' depth-5' and Pond 2 (which is in series with Pond 1): length-32' width-14' depth-4.5'. Note that these ponds are irregular in shape and depth, but the measurements cited here are the gross dimensions measured on site.
2. Latitude and longitude: Pond 1: 35.23175, -119.57467 and Pond 2: 35.23182, -119.57470. These figures are from the Water Board report dated April 2, 2015.
3. Assessor Parcel Numbers: 183-170-03 (owned), and 183-170-22 (leased)
4. Duration of the discharge: 12 months per year
5. Volume of wastewater discharged: The volume varies over time, but in 2014 was approximately 9 barrels per day which is equivalent to about 140,000 gallons per year. Wastewater discharge in the first quarter of 2015 is so far somewhat less.

- D. A location map that includes the following information: i. All surface impoundment(s) at the Facility, ii. Include the boundary lines for all leases at the Facility, and iii. Legend with the name of the surface impoundment(s)

See the enclosed map which details this information.

- E. Additional Information

In order to understand the possible harm to underground water with beneficial uses, the Company requested information from the County of Kern Environmental Health Services Department. In particular, for 45 sections of land surrounding our property (an area which approximates a circle with a 3 ½ mile radius) we requested information as follows:

"I understand that there are several classes of wells, those that are active, others that are abandoned and ones that are classified as destroyed, meaning plugged. I would like the following information for those types of water wells on the sections detailed on the spreadsheet:

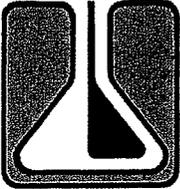
- Whether the well is classified as active, abandoned or destroyed*
- The type of well, which I understand means the use of the well water*
- The quality of the water in as much detail as available*
- Generally, the location of wells by section is sufficient. However, if there are any wells in the 8 sections surrounding our property on section 14 31 22, I would like their locations as precisely as possible."*

The Department responded that there are no water wells of any description in the area. Please see the enclosed letters from Engineers Oil Company and the Department. I request that the Water Board take this information into account in evaluating the ponds at the Engineers Oil Company property.

Certification

I certify under penalty of law that this document and all 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.


Mark A. Smith, Manager



ZALCO LABORATORIES, INC.

Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

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

May 12, 2015

Mark Smith
Engineers Oil Company
5508 Via Ravenna
Bakersfield, CA 93312

TEL: (661) 477-2119
FAX: -

Project ID:
RE: 1504197

Dear Mark Smith:

Zalco Laboratories, Inc. received 1 samples on 4/17/2015 for the analyses presented in the following report.

We appreciate your business and look forward to serving you in the future. Please feel free to call our office if you have any questions regarding these test results.

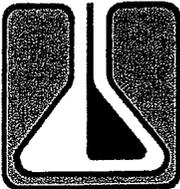
Sincerely,

A handwritten signature in cursive script, reading "Juan Magana".

Juan Magana
Project Manager
CC:

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TLC: 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.



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Bakersfield, California 93308

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Engineers Oil Company 5508 Via Ravenna Bakersfield, CA 93312	Project: RWQCB Oilfield Ponds - 2Q2015 Project #: Attention: Mark Smith	Work Order No.: 1504197 Reported: 05/12/2015 Received: 04/17/2015 13:55
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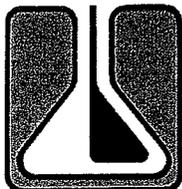
Lab Sample ID: 1504197-01 Client Sample ID: Pond # 1	Collected By: Justin Graves Date Collected: 4/17/2015 11:25:00AM
---	---

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Alkalinity								
Total Alkalinity	2400	10	mg/L		SM 2320B	4/17/15	4/17/15	SAM
Bicarbonate (HCO3)	2400	10	mg/L		SM 2320B	4/17/15	4/17/15	SAM
Carbonate (CO3)	<10	10	mg/L		SM 2320B	4/17/15	4/17/15	SAM
Hydroxide (OH)	<10	10	mg/L		SM 2320B	4/17/15	4/17/15	SAM
CAM, Toxicity (17 Metals)								
			<i>TTL Limits</i>					
Antimony	<2.0	2.0	500	mg/L	SW846 6010B	4/22/15	4/23/15	SS
Arsenic	<0.20	0.20	500	mg/L	SW846 6010B	4/22/15	4/23/15	SS
Barium	2.7	1.0	10000	mg/L	SW846 6010B	4/22/15	4/23/15	SS
Beryllium	0.12	0.10	75	mg/L	SW846 6010B	4/22/15	4/23/15	SS
Cadmium	<0.10	0.10	100	mg/L	SW846 6010B	4/22/15	4/23/15	SS
Chromium	0.57	0.50	2500	mg/L	SW846 6010B	4/22/15	4/23/15	SS
Cobalt	<1.0	1.0	8000	mg/L	SW846 6010B	4/22/15	4/23/15	SS
Copper	0.69	0.50	2500	mg/L	SW846 6010B	4/22/15	4/23/15	SS
Lead	<0.50	0.50	1000	mg/L	SW846 6010B	4/22/15	4/23/15	SS
Mercury	<0.0020	0.0020	20	mg/L	SW846 7470A	4/23/15	4/23/15	SS
Molybdenum	<1.0	1.0	3500	mg/L	SW846 6010B	4/22/15	4/23/15	SS
Nickel	0.62	0.50	2000	mg/L	SW846 6010B	4/22/15	4/23/15	SS
Selenium	<0.50	0.50	100	mg/L	SW846 6010B	4/22/15	4/23/15	SS
Silver	<0.20	0.20	500	mg/L	SW846 6010B	4/22/15	4/23/15	SS
Thallium	<5.0	5.0	700	mg/L	SW846 6010B	4/22/15	4/23/15	SS
Vanadium	<1.0	1.0	2400	mg/L	SW846 6010B	4/22/15	4/23/15	SS
Zinc	<0.50	0.50	5000	mg/L	SW846 6010B	4/22/15	4/23/15	SS
General Chemistry								
			<i>MCL Limits</i>					
Fluoride	<1.0	1.0	2	mg/L	EPA 300.0	4/17/15	4/17/15	MSS
Nitrate as NO3	<20.0	20.0	45	mg/L	EPA 300.0	4/17/15	4/17/15	MSS
Electrical Conductivity	30	0.010		mmhos/cm	SM 2510B	4/17/15	4/17/15	SAM
Bromide	81	1.0		mg/L	EPA 300.0	4/17/15	4/17/15	MSS
Chloride	9800	1000		mg/L	EPA 300.0	4/17/15	4/17/15	MSS
pH	7.75			pH Units	EPA 150.1	4/17/15	4/17/15	SAM
Sulfate as SO4	<5.0	5.0		mg/L	EPA 300.0	4/17/15	4/17/15	MSS
Total Dissolved Solids	19000	10		mg/L	SM 2540C	4/20/15	4/20/15	SAM
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

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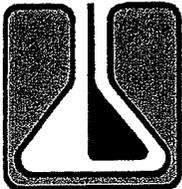
Engineers Oil Company 5508 Via Ravenna Bakersfield, CA 93312	Project: RWQCB Oilfield Ponds - 2Q2015 Project #: Attention: Mark Smith	Work Order No.: 1504197 Reported: 05/12/2015 Received: 04/17/2015 13:55
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Lab Sample ID: 1504197-01 Client Sample ID: Pond # 1	Collected By: Justin Graves Date Collected: 4/17/2015 11:25:00AM
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Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Hardness								
Hardness (as CaCO3)	1800	2.0	mg/L		SM 2340B	4/21/15	4/21/15	SS
Metals								
Lithium	6.4	1.0	mg/L		EPA 200.7	4/21/15	4/22/15	SS
Metals - As Received								
Magnesium	360	0.50	mg/L		EPA 200.7	4/21/15	4/21/15	SS
Potassium	170	5.0	mg/L		EPA 200.7	4/21/15	4/21/15	SS
Sodium	7400	350	mg/L		EPA 200.7	4/21/15	4/21/15	SS
Calcium	130	0.50	mg/L		EPA 200.7	4/21/15	4/21/15	SS
Iron	<1.0	1.0	mg/L		EPA 200.7	4/21/15	4/21/15	SS
Boron	44	1.0	mg/L		EPA 200.7	4/21/15	4/21/15	SS
Barium	1.5	1.0	mg/L		EPA 200.7	4/21/15	4/21/15	SS
Copper	<0.50	0.50	mg/L		EPA 200.7	4/21/15	4/21/15	SS
Silica (SiO2)	110	40	mg/L		EPA 200.7	4/21/15	4/21/15	SS
Strontium	5.1	1.0	mg/L		EPA 200.7	4/21/15	4/21/15	SS
Manganese	<0.30	0.30	mg/L		EPA 200.7	4/21/15	4/21/15	SS
Oil & Grease Testing								
TRPH	<5.00	5.00	mg/L		EPA 1664	4/29/15	4/29/15	BIG
Semivolatile Organic Compounds								
Indeno(1,2,3-cd)pyrene	<10.0	10.0	ug/L		SW846 8270C	4/17/15	4/20/15	JMM
Naphthalene	12.0	10.0	ug/L		SW846 8270C	4/17/15	4/20/15	JMM
Acenaphthylene	<10.0	10.0	ug/L		SW846 8270C	4/17/15	4/20/15	JMM
Acenaphthene	<10.0	10.0	ug/L		SW846 8270C	4/17/15	4/20/15	JMM
Fluorene	<10.0	10.0	ug/L		SW846 8270C	4/17/15	4/20/15	JMM
Phenanthrene	<10.0	10.0	ug/L		SW846 8270C	4/17/15	4/20/15	JMM
Anthracene	<10.0	10.0	ug/L		SW846 8270C	4/17/15	4/20/15	JMM
Fluoranthene	<10.0	10.0	ug/L		SW846 8270C	4/17/15	4/20/15	JMM
Pyrene	<10.0	10.0	ug/L		SW846 8270C	4/17/15	4/20/15	JMM
Benzo (a) anthracene	<10.0	10.0	ug/L		SW846 8270C	4/17/15	4/20/15	JMM
Chrysene	<10.0	10.0	ug/L		SW846 8270C	4/17/15	4/20/15	JMM
Benzo (b) fluoranthene	<10.0	10.0	ug/L		SW846 8270C	4/17/15	4/20/15	JMM
Benzo (k) fluoranthene	<10.0	10.0	ug/L		SW846 8270C	4/17/15	4/20/15	JMM

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Engineers Oil Company 5508 Via Ravenna Bakersfield, CA 93312	Project: RWQCB Oilfield Ponds - 2Q2015 Project #: Attention: Mark Smith	Work Order No.: 1504197 Reported: 05/12/2015 Received: 04/17/2015 13:55
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Lab Sample ID: 1504197-01 Client Sample ID: Pond # 1	Collected By: Justin Graves Date Collected: 4/17/2015 11:25:00AM
---	---

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
Benzo (a) pyrene	<10.0	10.0	ug/L		SW846 8270C	4/17/15	4/20/15	JMM
Dibenz (a,h) anthracene	<10.0	10.0	ug/L		SW846 8270C	4/17/15	4/20/15	JMM
Benzo (g,h,i) perylene	<10.0	10.0	ug/L		SW846 8270C	4/17/15	4/20/15	JMM
Surrogates		% Recovery	Recovery Limits	Flag				
Nitrobenzene-d5		36.2	0-95				4/20/15 14:56	
2-Fluorobiphenyl		37.6	0-92				4/20/15 14:56	
Terphenyl-d14		51.8	0-100				4/20/15 14:56	
Volatile Organic Compounds								
m,p-Xylene	17.7	5.00	ug/L		SW846 8260B	4/28/15	4/28/15	HLP
Benzene	9.54	5.00	ug/L		SW846 8260B	4/28/15	4/28/15	HLP
Xylenes, total	57.3		ug/L		SW846 8260B	4/28/15	4/28/15	HLP
Methyl tert-Butyl Ether	<5.00	5.00	ug/L		SW846 8260B	4/28/15	4/28/15	HLP
Ethylbenzene	7.91	5.00	ug/L		SW846 8260B	4/28/15	4/28/15	HLP
Toluene	18.9	5.00	ug/L		SW846 8260B	4/28/15	4/28/15	HLP
o-Xylene	39.6	5.00	ug/L		SW846 8260B	4/28/15	4/28/15	HLP
Surrogates		% Recovery	Recovery Limits	Flag				
1,2-Dichloroethane-d4		107	89-165				4/28/15 11:45	
Toluene-d8		101	65-124				4/28/15 11:45	
4-Bromofluorobenzene		105	94-114				4/28/15 11:45	

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTL: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
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May 11, 2015

Lab ID : SP 1504320-001

Customer ID : 2-249

Zalco Laboratories, Inc.
 4309 Armour Avenue
 Bakersfield, CA 93308-4573

Sampled On : April 17, 2015-11:25

Sampled By : Not Available

Received On : April 21, 2015-09:30

Matrix : Water

Description : 1504197-01

Project : 1504197

Sample Result - Radio

Constituent	Result ± Error	MDA	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Radio Chemistry^P								
Gross Alpha	4.77 ± 6.91	9.90	pCi/L	15/5	900.0	04/24/15-08:30 2P1504759	900.0	04/27/15-11:00 2A1506420
Total Alpha Radium (226)	2.07 ± 0.439	0.363	pCi/L	3	903.0	04/24/15-18:45 2P1504812	903.0	04/30/15-09:40 2A1506495
Uranium	0.000 ± 0.438	0.300	pCi/L	20	908.0	04/30/15-07:05 2P1505004	908.0	04/30/15-18:52 2A1506488
Ra 228	0.000 ± 0.523	0.253	pCi/L	2	Ra - 05	05/06/15-18:20 2P1504811	Ra - 05	05/09/15-11:40 2A1506898

ND=Non-Detected, PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: N/A * PQL adjusted for dilution.

MDA = Minimum Detectable Activity (Calculated at the 95% confidence level) = Data utilized by DHS to determine matrix interference.

MCL / AL = Maximum Contamination Level / Action Level. Alpha's Action Level of 5 pCi/L is based on the Assigned Value (AV).

AV = Assigned Value(Gross Alpha Result + (0.84 x Error)). CCR Section 64442: Drinking Water Compliance Note: Do the following

If Gross Alpha's (AV) exceeds 5 pCi/L run Uranium. If Gross Alpha's (AV) minus Uranium exceeds 5 pCi/L run Radium 226.

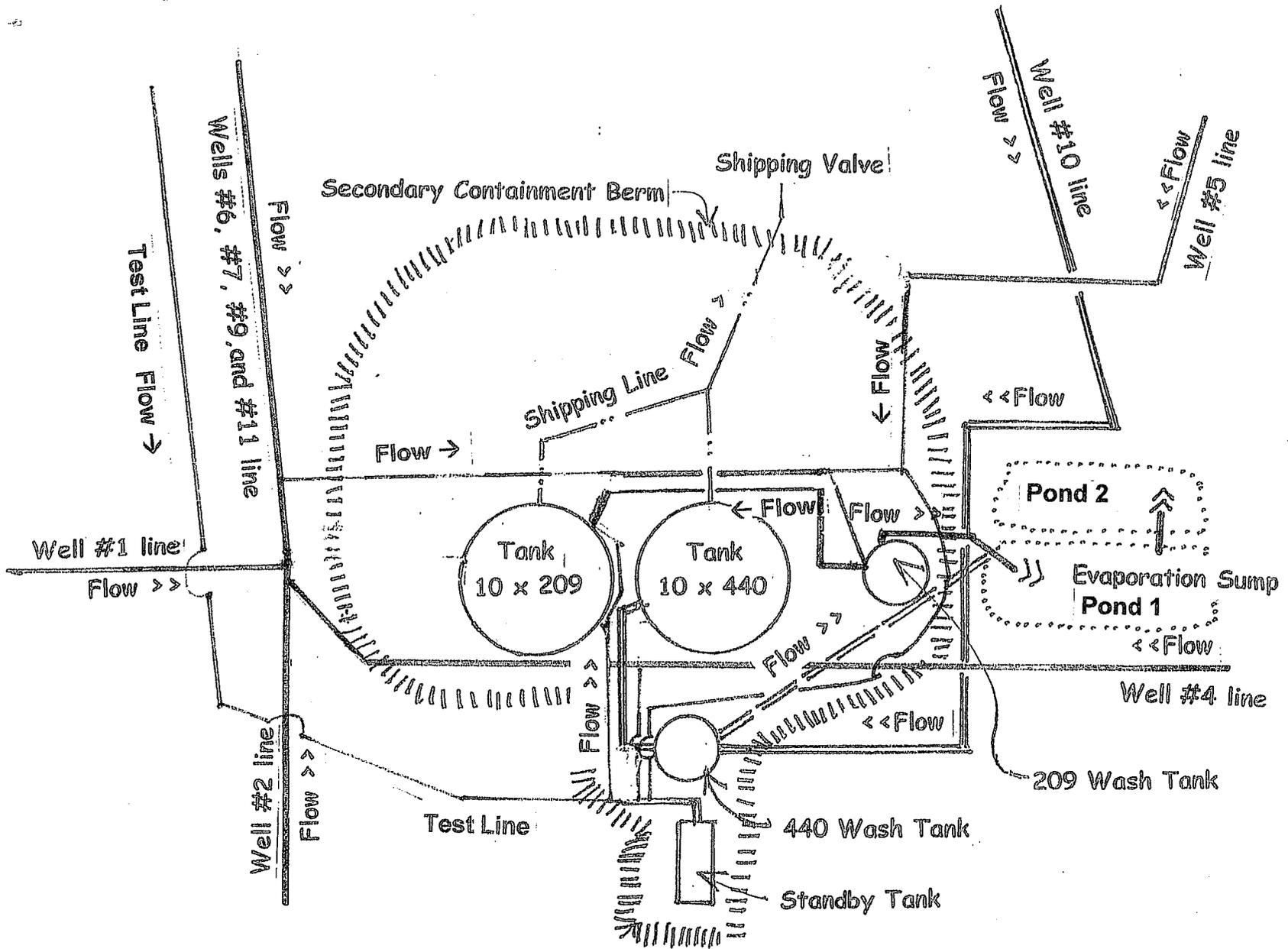
Drinking Water Compliance:

Gross Alpha (AV) minus Uranium is less than or equal to 15 pCi/L

Uranium is less than or equal to 20 pCi/L

Radium 226 + Radium 228 is less than or equal to 5 pCi/L

Note: Samples are held for 3-6 months prior to disposal.



Engineers Oil Company
 Schematic Drawing of Tank Setting

Updated November, 2013

Please see hard copy for map



KERN COUNTY
Public Health Services
DEPARTMENT

MATTHEW CONSTANTINE
DIRECTOR

2700 M STREET, SUITE 300

BAKERSFIELD, CALIFORNIA 93301-2370

VOICE 661-862-8740

FAX 661-862-8701

WWW.CO.KERN.CA.US/EH

April 24, 2015

Engineers Oil Company
Attn: Mark Smith
5508 Via Ravenna
Bakersfield, CA 93312

Subject: Public Information Request for water well data

Dear Mr. Smith:

The Kern County Environmental Health Division has reviewed your request for information made pursuant to the California Public Records Act. In researching your request for information on water wells in the area as described, we have no known data. Please let me know if you have any further questions. I can be reached at (661) 862-8776 or via email at rutledgea@co.kern.ca.us.

Sincerely,

Amy Rutledge, R.E.H.S.
Environmental Health Specialist IV,
Water Program Supervisor

Engineers Oil Company

5508 Via Ravenna
Bakersfield, California 93312
(661) 477-2119
marksmith@bak.rr.com

April 10, 2015

Amy Rutledge, R.E.H.S
Kern County Environmental Health Division
2700 M St, Suite 300
Bakersfield, CA 93301

Dear Amy:

Thank you for your direction on my request for information regarding water wells in western Kern County.

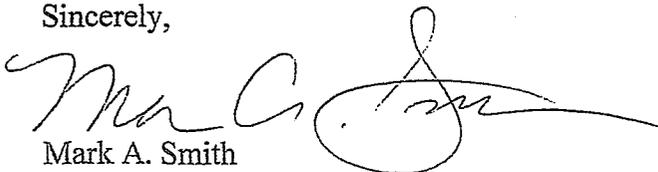
Our property is located on section 14 31 22 and is about a mile south of Derby Acres on Highway 33. I have attached a spreadsheet with the section, township and range identification of areas for which I would like the data. The enclosed map shows the location of our property and the surrounding sections detailed on the spreadsheet.

I understand that there are several classes of wells, those that are active, others that are abandoned and ones that are classified as destroyed, meaning plugged. I would like the following information for those types of water wells on the sections detailed on the spreadsheet:

- Whether the well is classified as active, abandoned or destroyed
- The type of well, which I understand means the use of the well water
- The quality of the water in as much detail as available
- Generally, the location of wells by section is sufficient. However, if there are any wells in the 8 sections surrounding our property on section 14 31 22, I would like their locations as precisely as possible.

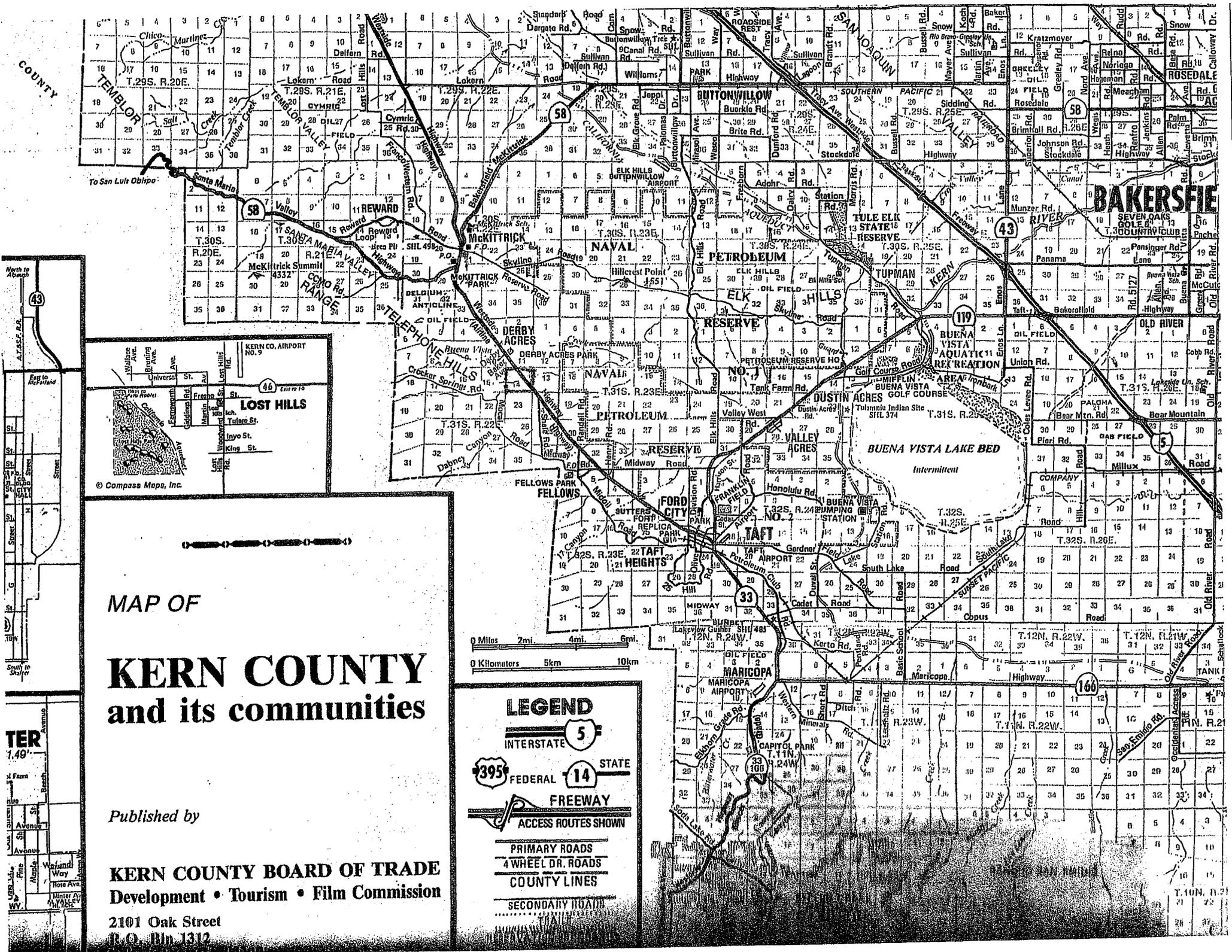
Thank you for your response to this request. If you have any questions, please give me a call.

Sincerely,



Mark A. Smith
Manager

Section	Township	Range
33	30	22
34	30	22
35	30	22
36	30	22
1	31	22
2	31	22
3	31	22
4	31	22
5	31	22
8	31	22
9	31	22
10	31	22
11	31	22
12	31	22
13	31	22
14	31	22
15	31	22
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25	31	22
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29	31	22
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34	31	22
35	31	22
36	31	22
31	30	23
5	31	23
6	31	23
7	31	23
8	31	23
17	31	23
18	31	23
19	31	23
20	31	23
29	31	23
30	31	23
31	31	23



MAP OF

KERN COUNTY and its communities

Published by

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Development • Tourism • Film Commission

2101 Oak Street
P.O. Box 1312

LEGEND

INTERSTATE **5**

FEDERAL **395** STATE **14**

FREWAY

ACCESS ROUTES SHOWN

PRIMARY ROADS

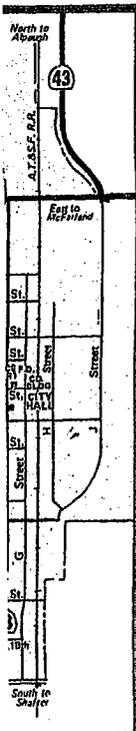
4 WHEEL DR. ROADS

COUNTY LINES

SECONDARY ROADS

0 Miles 2mi 4mi 6mi

0 Kilometers 5km 10km



LOST HILLS

KERN CO. AIRPORT NO. 9

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