

**Erekat, Omar O.@Waterboards**

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**Subject:** FW: Addendum to 6/3/2015 Technical Report  
**Attachments:** Zalco Analysis .pdf; Certification Letter for water board.pdf

RECEIVED

JUN 23 2015

**From:** Stephen Filippi <[pentarchpetroleum@roadrunner.com](mailto:pentarchpetroleum@roadrunner.com)>  
**Subject:** Addendum to 6/3/2015 Technical Report  
**Date:** June 17, 2015 at 8:36:57 AM PDT  
**To:** [centralvalleyfresno@waterboards.ca.gov](mailto:centralvalleyfresno@waterboards.ca.gov)

RWQCB-CVR  
FRESNO, CALIF.

ATTN: Omar Erekat

This email will serve as an addendum to the technical report submitted by Pentarch Petroleum on 6/3/2015...As discussed with Omar Erekat on 6/15/2015, there were three correction to resubmitted to the water board.1) include the nuclide analysis with the Zalco pdf.. 2) Correct the "sampled by" name in the Zalco report...3) furnish the LAT and LONG coordinates for where the samples were retrieved...Attached please find the revised Zalco report with the nuclides analysis and the name of the person from Zalco that took the samples...Also the Lat and Long coordinates for the sample location is: LAT= 36\* 0' 0.14" N

Long= 119\*

3' 11.51" W

Finally, also find a revised signed certification letter .

Thanks, Steve

Stephen A. Filippi  
President  
**Pentarch Petroleum**  
25938 Gardner Street  
Loma Linda, CA 92354  
Phone: 909.440.9158  
Fax: 909.796.5121

Sent from my iMac

# PENTARCH PETROLEUM

25938 GARDNER STREET, LOMA LINDA, CA 92354

PHONE: 909.440.9158

FAX: 909.796.5131

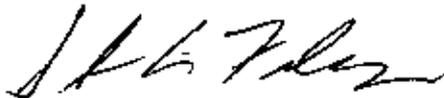
Email: [stephenfilippi@roadrunner.com](mailto:stephenfilippi@roadrunner.com)

June 17, 2015

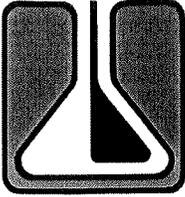
Ronald Holcomb  
Central Valley Water Board  
1685 E Street  
Fresno, CA 93706

Subject: Certification Statement—California Water Code Directive

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.



Stephen A. Filippi  
Pentarch Petroleum



ZALCO LABORATORIES, INC.

Analytical & Consulting Services

4309 Armour Avenue  
Bakersfield, California 93308

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

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June 16, 2015

Steve Filippi  
Pentarch Petroleum  
25938 Gardener  
Loma Linda, CA 92354

TEL: (909) 440-9158  
FAX: (909) 796-5121

Project ID:  
RE: 1504168

Dear Steve Filippi:

Zalco Laboratories, Inc. received 1 samples on 4/15/2015 for the analyses presented in the following report.

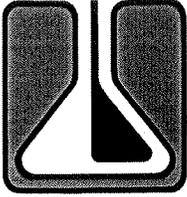
We appreciate your business and look forward to serving you in the future. Please feel free to call our office if you have any questions regarding these test results.

Sincerely,

  
Juan Magana  
Project Manager  
CC:

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.



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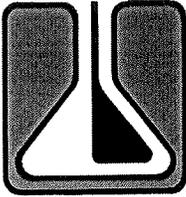
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**Case Narrative**

1504168-01 Portion of water used as agriculture water

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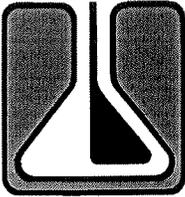
Pentarch Petroleum 25938 Gardener Loma Linda, CA 92354	Project: RWQCB Oilfield Ponds - 2Q2015 Project #: Attention: Steve Filippi	Work Order No.: 1504168 Reported: 06/16/2015 Received: 04/15/2015 12:15
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Lab Sample ID: 1504168-01	Collected By: Jeremiah Johnson
Client Sample ID: Pentarch Lease Pond #1	Date Collected: 4/15/2015 10:15:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
<b>Alkalinity</b>								
Total Alkalinity	180	10	mg/L		SM 2320B	4/15/15	4/15/15	SAM
Bicarbonate (HCO3)	180	10	mg/L		SM 2320B	4/15/15	4/15/15	SAM
Carbonate (CO3)	<10	10	mg/L		SM 2320B	4/15/15	4/15/15	SAM
Hydroxide (OH)	<10	10	mg/L		SM 2320B	4/15/15	4/15/15	SAM
<b>CAM, Toxicity (17 Metals)</b>								
			<i>TTLC Limits</i>					
Antimony	<0.20	0.20	500	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Arsenic	<0.020	0.020	500	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Barium	<0.10	0.10	10000	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Beryllium	<0.010	0.010	75	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Cadmium	<0.010	0.010	100	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Chromium	<0.050	0.050	2500	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Cobalt	<0.10	0.10	8000	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Copper	<0.050	0.050	2500	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Lead	<0.050	0.050	1000	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Mercury	<0.0020	0.0020	20	mg/L	SW846 7470A	4/23/15	4/23/15	SS
Molybdenum	<0.10	0.10	3500	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Nickel	0.053	0.050	2000	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Selenium	<0.05	0.05	100	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Silver	<0.020	0.020	500	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Thallium	<0.50	0.50	700	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Vanadium	<0.10	0.10	2400	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Zinc	<0.050	0.050	5000	mg/L	SW846 6010B	4/17/15	4/21/15	SS
<b>General Chemistry</b>								
			<i>MCL Limits</i>					
Fluoride	0.51	0.20	2	mg/L	EPA 300.0	4/15/15	4/15/15	MSS
Nitrate as NO3	<2.00	2.00	45	mg/L	EPA 300.0	4/15/15	4/15/15	MSS
Electrical Conductivity	0.47	0.010		mmhos/cm	SM 2510B	4/17/15	4/17/15	SAM
Bromide	0.18	0.10		mg/L	EPA 300.0	4/15/15	4/15/15	MSS
Chloride	38	2.0		mg/L	EPA 300.0	4/15/15	4/15/15	MSS
pH	7.97			pH Units	EPA 150.1	4/15/15	4/15/15	SAM
Sulfate as SO4	8.4	0.50		mg/L	EPA 300.0	4/15/15	4/15/15	MSS
Total Dissolved Solids	300	10		mg/L	SM 2540C	4/17/15	4/17/15	SAM
<b>Hardness</b>								

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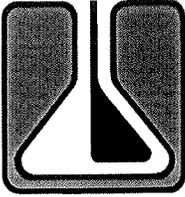
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Lab Sample ID: 1504168-01	Collected By: Jeremiah Johnson
Client Sample ID: Pentarch Lease Pond #1	Date Collected: 4/15/2015 10:15:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
<b>Hardness</b>								
Hardness (as CaCO3)	16	2.0	mg/L		SM 2340B	4/21/15	4/21/15	SS
<b>Metals</b>								
Lithium	<0.10	0.10	mg/L		EPA 200.7	4/21/15	4/22/15	SS
<b>Metals - As Received</b>								
Magnesium	0.64	0.050	mg/L		EPA 200.7	4/21/15	4/21/15	SS
Potassium	0.66	0.50	mg/L		EPA 200.7	4/21/15	4/21/15	SS
Sodium	100	7.0	mg/L		EPA 200.7	4/21/15	4/21/15	SS
Calcium	5.3	0.050	mg/L		EPA 200.7	4/21/15	4/21/15	SS
Iron	<0.10	0.10	mg/L		EPA 200.7	4/21/15	4/21/15	SS
Boron	0.49	0.10	mg/L		EPA 200.7	4/21/15	4/21/15	SS
Barium	<0.10	0.10	mg/L		EPA 200.7	4/21/15	4/21/15	SS
Copper	<0.050	0.050	mg/L		EPA 200.7	4/21/15	4/21/15	SS
Silica (SiO2)	20	4.0	mg/L		EPA 200.7	4/21/15	4/21/15	SS
Strontium	<0.10	0.10	mg/L		EPA 200.7	4/21/15	4/21/15	SS
Manganese	<0.030	0.030	mg/L		EPA 200.7	4/21/15	4/21/15	SS
<b>Oil &amp; Grease Testing</b>								
TRPH	15.0	5.00	mg/L		EPA 1664	4/29/15	4/29/15	BIG
<b>Semivolatile Organic Compounds</b>								
Indeno(1,2,3-cd)pyrene	<10.0	10.0	ug/L		SW846 8270C	4/17/15	4/20/15	JMM
Naphthalene	<10.0	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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Lab Sample ID: 1504168-01 Client Sample ID: Pentarch Lease Pond #1	Collected By: Jeremiah Johnson Date Collected: 4/15/2015 10:15:00AM
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Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
<b>Semivolatile Organic Compounds</b>								
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	29.9	0-95		4/20/15 14:56
2-Fluorobiphenyl	34.3	0-92		4/20/15 14:56
Terphenyl-d14	142*	0-100	S-GC	4/20/15 14:56

### Subcontracted Analyses

Analyte	Results	PQL	Units	Method	Date Prepared	Date Analyzed	Init.
Gross Alpha	<15.0	15.0	pCi/L	SM 7110C	4/21/15	4/22/15	JMM
Radium-226	<3.00	3.00	pCi/L	E903.1	4/17/15	4/22/15	JMM
Radium-228	<2.00	2.00	pCi/L	EPA Ra-05	4/28/15	4/30/15	JMM
Uranium (ug/L)	<20.0	20.0	pCi/L	E908	5/13/15	5/13/15	JMM

### Volatile Organic Compounds

Analyte	Results	PQL	Units	Method	Date Prepared	Date Analyzed	Init.
m,p-Xylene	<5.00	5.00	ug/L	SW846 8260B	4/21/15	4/21/15	HLP
Benzene	<5.00	5.00	ug/L	SW846 8260B	4/21/15	4/21/15	HLP
Xylenes, total	0.00		ug/L	SW846 8260B	4/21/15	4/21/15	HLP
Methyl tert-Butyl Ether	<5.00	5.00	ug/L	SW846 8260B	4/21/15	4/21/15	HLP
Ethylbenzene	<5.00	5.00	ug/L	SW846 8260B	4/21/15	4/21/15	HLP
Toluene	<5.00	5.00	ug/L	SW846 8260B	4/21/15	4/21/15	HLP
o-Xylene	<5.00	5.00	ug/L	SW846 8260B	4/21/15	4/21/15	HLP

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	111	89-165		4/21/15 13:40
Toluene-d8	104	65-124		4/21/15 13:40
4-Bromofluorobenzene	98.7	94-114		4/21/15 13:40

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