

ZALCO LABORATORIES, INC.

Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

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

June 12, 2015

Richard Woodall
Jaco Oil Company
P O Box 82515
Bakersfield, CA 93380

TEL: (661) 393-7000
FAX: (661) 393-8738

Project ID:
RE: 1504281

Dear Richard Woodall:

Zalco Laboratories, Inc. received 2 samples on 4/24/2015 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.

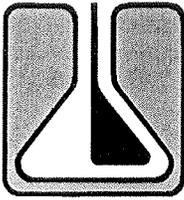
Sincerely,

Juan Magana
Project Manager
CC:

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time 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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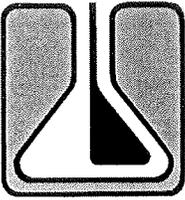
Jaco Oil Company P O Box 82515 Bakersfield, CA 93380	Project: RWQCB Oilfield Ponds - 2Q2015 Project #: Attention: Richard Woodall	Work Order No.: 1504281 Reported: 06/12/2015 Received: 04/24/2015 15:30
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Lab Sample ID: 1504281-01	Collected By: Michael C.
Client Sample ID: Waste Water Disposal Pond (West)	Date Collected: 4/24/2015 1:00:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Alkalinity								
Total Alkalinity	760	10	mg/L		SM 2320B	4/24/15	4/24/15	SAM
Bicarbonate (HCO3)	760	10	mg/L		SM 2320B	4/24/15	4/24/15	SAM
Carbonate (CO3)	<10	10	mg/L		SM 2320B	4/24/15	4/24/15	SAM
Hydroxide (OH)	<10	10	mg/L		SM 2320B	4/24/15	4/24/15	SAM
CAM, Toxicity (17 Metals)								
			<i>TTL Limits</i>					
Antimony	<0.20	0.20	500	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Arsenic	0.10	0.020	500	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Barium	0.29	0.10	10000	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Beryllium	<0.010	0.010	75	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Cadmium	<0.010	0.010	100	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Chromium	<0.050	0.050	2500	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Cobalt	<0.10	0.10	8000	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Copper	0.22	0.050	2500	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Lead	<0.050	0.050	1000	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Mercury	<0.0020	0.0020	20	mg/L	SW846 7470A	4/28/15	4/28/15	SS
Molybdenum	<0.10	0.10	3500	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Nickel	0.17	0.050	2000	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Selenium	<0.05	0.05	100	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Silver	<0.020	0.020	500	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Thallium	<0.50	0.50	700	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Vanadium	<0.10	0.10	2400	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Zinc	0.11	0.050	5000	mg/L	SW846 6010B	4/28/15	4/28/15	SS
General Chemistry								
			<i>MCL Limits</i>					
Fluoride	<1.0	1.0	2	mg/L	EPA 300.0	4/24/15	4/24/15	MSS
Nitrate as NO3	<500	500	45	mg/L	EPA 300.0	4/24/15	4/24/15	MSS
Electrical Conductivity	20	0.010		mmhos/cm	SM 2510B	4/24/15	4/25/15	SAM
Bromide	23	1.0		mg/L	EPA 300.0	4/24/15	4/24/15	MSS
Chloride	5700	500		mg/L	EPA 300.0	4/24/15	4/24/15	MSS
pH	6.91			pH Units	EPA 150.1	4/24/15	4/24/15	SAM
Sulfate as SO4	2100	120		mg/L	EPA 300.0	4/24/15	4/24/15	MSS
Total Dissolved Solids	15000	10		mg/L	SM 2540C	4/29/15	4/29/15	MSS
Hardness								

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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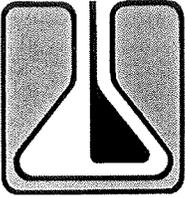
Jaco Oil Company P O Box 82515 Bakersfield, CA 93380	Project: RWQCB Oilfield Ponds - 2Q2015 Project #: Attention: Richard Woodall	Work Order No.: 1504281 Reported: 06/12/2015 Received: 04/24/2015 15:30
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Lab Sample ID: 1504281-01 Client Sample ID: Waste Water Disposal Pond (West)	Collected By: Michael C. Date Collected: 4/24/2015 1:00:00PM
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Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Hardness								
Hardness (as CaCO3)	2000	2.0	mg/L		SM 2340B	4/28/15	4/28/15	SS
Metals - As Received								
Magnesium	170	0.050	mg/L		EPA 200.7	4/28/15	4/28/15	SS
Potassium	240	0.50	mg/L		EPA 200.7	4/28/15	4/28/15	SS
Sodium	4500	70	mg/L		EPA 200.7	4/28/15	4/28/15	SS
Calcium	530	0.050	mg/L		EPA 200.7	4/28/15	4/28/15	SS
Iron	0.72	0.10	mg/L		EPA 200.7	4/28/15	4/28/15	SS
Boron	24	0.10	mg/L		EPA 200.7	4/28/15	4/28/15	SS
Barium	0.30	0.10	mg/L		EPA 200.7	4/28/15	4/28/15	SS
Copper	0.38	0.050	mg/L		EPA 200.7	4/28/15	4/28/15	SS
Silica (SiO2)	89	4.0	mg/L		EPA 200.7	4/28/15	4/28/15	SS
Strontium	9.4	0.10	mg/L		EPA 200.7	4/28/15	4/28/15	SS
Manganese	1.6	0.030	mg/L		EPA 200.7	4/28/15	4/28/15	SS
Oil & Grease Testing								
TRPH	<5.00	5.00	mg/L		EPA 1664	5/8/15	5/8/15	BIG
Semivolatile Organic Compounds								
Indeno(1,2,3-cd)pyrene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Naphthalene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Acenaphthylene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Acenaphthene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Fluorene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Phenanthrene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Anthracene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Fluoranthene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Pyrene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Benzo (a) anthracene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Chrysene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Benzo (b) fluoranthene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Benzo (k) fluoranthene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Benzo (a) pyrene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Dibenz (a,h) anthracene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Benzo (g,h,i) perylene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	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
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Jaco Oil Company
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Bakersfield, CA 93380

Project: RWQCB Oilfield Ponds - 2Q2015
Project #:
Attention: Richard Woodall

Work Order No.: 1504281
Reported: 06/12/2015
Received: 04/24/2015 15:30

Lab Sample ID: 1504281-01

Collected By: Michael C.

Client Sample ID: Waste Water Disposal Pond (West)

Date Collected: 4/24/2015 1:00:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
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Semivolatile Organic Compounds

Surrogates	% Recovery	Recovery Limits	Flag				
Nitrobenzene-d5	2.96	0-95				4/28/15	9:31
2-Fluorobiphenyl	2.62	0-92				4/28/15	9:31
Terphenyl-d14	1.29	0-100				4/28/15	9:31

Subcontracted Analyses

Gross Alpha	<15.0	15.0	pCi/L		SM 7110C	5/4/15	5/5/15	MCS
Radium-226	<3.00	3.00	pCi/L		E903.1	5/6/15	5/8/15	MCS
Radium-228	<2.00	2.00	pCi/L		EPA Ra-05	5/15/15	5/18/15	MCS
Uranium (ug/L)	<20.0	20.0	pCi/L		E908	5/13/15	5/13/15	MCS

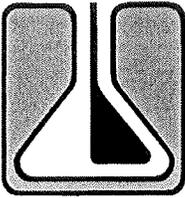
Volatile Organic Compounds

m,p-Xylene	<5.00	5.00	ug/L		SW846 8260B	5/8/15	5/8/15	HLP
Benzene	9.80	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	11.1	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	98.2	89-165				5/8/15	9:44
Toluene-d8	99.5	65-124				5/8/15	9:44
4-Bromofluorobenzene	111	94-114				5/8/15	9:44

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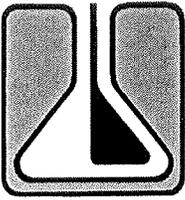
Jaco Oil Company P O Box 82515 Bakersfield, CA 93380	Project: RWQCB Oilfield Ponds - 2Q2015 Project #: Attention: Richard Woodall	Work Order No.: 1504281 Reported: 06/12/2015 Received: 04/24/2015 15:30
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Lab Sample ID: 1504281-02	Collected By: Michael C.
Client Sample ID: Waste Water Disposal Pond (East)	Date Collected: 4/24/2015 1:00:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Alkalinity								
Total Alkalinity	700	10	mg/L		SM 2320B	4/24/15	4/24/15	SAM
Bicarbonate (HCO3)	700	10	mg/L		SM 2320B	4/24/15	4/24/15	SAM
Carbonate (CO3)	<10	10	mg/L		SM 2320B	4/24/15	4/24/15	SAM
Hydroxide (OH)	<10	10	mg/L		SM 2320B	4/24/15	4/24/15	SAM
CAM, Toxicity (17 Metals)								
			<i>TTLc Limits</i>					
Antimony	<0.20	0.20	500	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Arsenic	0.026	0.020	500	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Barium	0.38	0.10	10000	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Beryllium	<0.010	0.010	75	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Cadmium	<0.010	0.010	100	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Chromium	<0.050	0.050	2500	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Cobalt	<0.10	0.10	8000	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Copper	0.19	0.050	2500	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Lead	<0.050	0.050	1000	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Mercury	<0.0020	0.0020	20	mg/L	SW846 7470A	4/28/15	4/28/15	SS
Molybdenum	<0.10	0.10	3500	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Nickel	0.068	0.050	2000	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Selenium	<0.05	0.05	100	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Silver	<0.020	0.020	500	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Thallium	<0.50	0.50	700	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Vanadium	<0.10	0.10	2400	mg/L	SW846 6010B	4/28/15	4/28/15	SS
Zinc	<0.050	0.050	5000	mg/L	SW846 6010B	4/28/15	4/28/15	SS
General Chemistry								
			<i>MCL Limits</i>					
Fluoride	<1.0	1.0	2	mg/L	EPA 300.0	4/24/15	4/24/15	MSS
Nitrate as NO3	<20.0	20.0	45	mg/L	EPA 300.0	4/24/15	4/24/15	MSS
Electrical Conductivity	28	0.010		mmhos/cm	SM 2510B	4/24/15	4/25/15	SAM
Bromide	39	1.0		mg/L	EPA 300.0	4/24/15	4/24/15	MSS
Chloride	9900	1000		mg/L	EPA 300.0	4/24/15	4/24/15	MSS
pH	7.42			pH Units	EPA 150.1	4/24/15	4/24/15	SAM
Sulfate as SO4	110	5.0		mg/L	EPA 300.0	4/24/15	4/24/15	MSS
Total Dissolved Solids	17000	10		mg/L	SM 2540C	4/29/15	4/29/15	MSS
Hardness								

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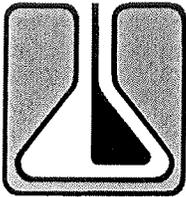
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Lab Sample ID: 1504281-02	Collected By: Michael C.
Client Sample ID: Waste Water Disposal Pond (East)	Date Collected: 4/24/2015 1:00:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Hardness								
Hardness (as CaCO3)	660	2.0	mg/L		SM 2340B	4/28/15	4/28/15	SS
Metals - As Received								
Magnesium	93	0.050	mg/L		EPA 200.7	4/28/15	4/28/15	SS
Potassium	110	0.50	mg/L		EPA 200.7	4/28/15	4/28/15	SS
Sodium	7500	70	mg/L		EPA 200.7	4/28/15	4/28/15	SS
Calcium	110	0.050	mg/L		EPA 200.7	4/28/15	4/28/15	SS
Iron	0.51	0.10	mg/L		EPA 200.7	4/28/15	4/28/15	SS
Boron	28	0.10	mg/L		EPA 200.7	4/28/15	4/28/15	SS
Barium	0.35	0.10	mg/L		EPA 200.7	4/28/15	4/28/15	SS
Copper	0.37	0.050	mg/L		EPA 200.7	4/28/15	4/28/15	SS
Silica (SiO2)	110	40	mg/L		EPA 200.7	4/28/15	4/28/15	SS
Strontium	9.1	0.10	mg/L		EPA 200.7	4/28/15	4/28/15	SS
Manganese	0.056	0.030	mg/L		EPA 200.7	4/28/15	4/28/15	SS
Oil & Grease Testing								
TRPH	<5.00	5.00	mg/L		EPA 1664	5/8/15	5/8/15	BIG
Semivolatile Organic Compounds								
Indeno(1,2,3-cd)pyrene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Naphthalene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Acenaphthylene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Acenaphthene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Fluorene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Phenanthrene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Anthracene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Fluoranthene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Pyrene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Benzo (a) anthracene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Chrysene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Benzo (b) fluoranthene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Benzo (k) fluoranthene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Benzo (a) pyrene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Dibenz (a,h) anthracene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	JMM
Benzo (g,h,i) perylene	<10.0	10.0	ug/L		SW846 8270C	4/27/15	4/28/15	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
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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

Jaco Oil Company P O Box 82515 Bakersfield, CA 93380	Project: RWQCB Oilfield Ponds - 2Q2015 Project #: Attention: Richard Woodall	Work Order No.: 1504281 Reported: 06/12/2015 Received: 04/24/2015 15:30
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Lab Sample ID: 1504281-02 Client Sample ID: Waste Water Disposal Pond (East)	Collected By: Michael C. Date Collected: 4/24/2015 1:00:00PM
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Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
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Semivolatile Organic Compounds

Surrogates	% Recovery	Recovery Limits	Flag					
Nitrobenzene-d5	4.10	0-95				4/28/15	9:31	
2-Fluorobiphenyl	4.05	0-92				4/28/15	9:31	
Terphenyl-d14	3.00	0-100				4/28/15	9:31	

Subcontracted Analyses

Gross Alpha	<15.0	15.0	pCi/L		SM 7110C	5/4/15	5/5/15	MCS
Radium-226	<3.00	3.00	pCi/L		E903.1	5/6/15	5/8/15	MCS
Radium-228	<2.00	2.00	pCi/L		EPA Ra-05	5/15/15	5/18/15	MCS
Uranium (ug/L)	<20.0	20.0	pCi/L		E908	5/13/15	5/13/15	MCS

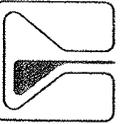
Volatile Organic Compounds

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	98.3	89-165				5/8/15	9:44	
Toluene-d8	85.4	65-124				5/8/15	9:44	
4-Bromofluorobenzene	103	94-114				5/8/15	9:44	

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ZALCO LABORATORIES, INC. CHAIN OF CUSTODY, ID# 1501281
 4309 Armour Avenue, Bakersfield, CA 93308 (661) 395-0539 FAX (661) 395-3069 www.zalcolabs.com

Page _____ of _____

Zalco Lab # _____

Client PO # _____

PROJECT ID: _____

QUOTE ID: _____

COMMENTS:

Turnaround Time: _____ working days

Rush By: _____ working days

Send Copy to State of CA? Yes No

Attention To: _____

Send Copy to County? Yes No

County: _____

REPORT INFO

INVOICE INFO

Client: Foco Production-Oil Invoice To: Same as Client

Address: 3101 State Rd. Address: _____

City, State, Zip: Bkrsfld 93303 City, State, Zip: _____

Attention: Richard Woodall Attention: _____

Phone: (661) 393-7000 Phone: _____

Fax: _____ Fax: _____

Email: richwood@zalco.com Email: _____

SAMPLED BY: _____ EMPLOYED BY: _____

Sample No. * Sample Description Date Sample Time Type* # ANALYSIS T E M P E R A T U R E (c)

1 waste water disposal pond (west) 4/24/2000 W X X Pond waters See attached 48

2 waste water disposal pond (east) 4/24/2000 W X X

4/27/15
 Per client
 Please send preliminary report - FS

RELINQUISHED By: Signature Michael Lucida PRINT Michael Lucida

RECEIVED By: Signature Springer PRINT Springer

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