ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

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

July 1, 2015

Christine L. Zimmerman
Valley Water Management Company
7500 Meany Avenue
Bakersfield, CA 93308

TEL: (661) 205-2885
FAX: (661) 410-7500

Project ID:
RE: 1505110

Dear Christine L. Zimmerman:

Zalco Laboratories, Inc. received 1 samples on 5/8/2015 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
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Valley Water Management Company	Project: RWQCB Oilfield Ponds - 2Q2015	Work Order No.: **1505110**
7500 Meany Avenue	Project #:	Reported: 07/01/2015
Bakersfield, CA 93308	Attention: Christine L. Zimmerman	Received: 05/08/2015 13:45

Lab Sample ID: **1505110-01**
Client Sample ID: Kern Front 2 CP-1

Collected By: Justin Graves
Date Collected: 5/8/2015 10:30:00AM

Analyte	Results	PQL		Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Alkalinity									
Total Alkalinity	320	10		mg/L		SM 2320B	5/8/15	5/8/15	SAM
Bicarbonate (HCO3)	320	10		mg/L		SM 2320B	5/8/15	5/8/15	SAM
Carbonate (CO3)	<10	10		mg/L		SM 2320B	5/8/15	5/8/15	SAM
Hydroxide (OH)	<10	10		mg/L		SM 2320B	5/8/15	5/8/15	SAM
CAM, Toxicity (17 Metals)			*TTLC Limits*						
Antimony	<0.20	0.20	*500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Arsenic	0.034	0.020	*500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Barium	<0.10	0.10	*10000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Beryllium	<0.010	0.010	*75*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Cadmium	<0.010	0.010	*100*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Chromium	<0.050	0.050	*2500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Cobalt	<0.10	0.10	*8000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Copper	<0.050	0.050	*2500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Lead	<0.050	0.050	*1000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Mercury	<0.0020	0.0020	*20*	mg/L		SW846 7470A	5/12/15	5/12/15	SS
Molybdenum	<0.10	0.10	*3500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Nickel	<0.050	0.050	*2000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Selenium	<0.05	0.05	*100*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Silver	<0.020	0.020	*500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Thallium	<0.50	0.50	*700*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Vanadium	<0.10	0.10	*2400*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Zinc	<0.050	0.050	*5000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
General Chemistry			*MCL Limits*						
Fluoride	0.64	0.10	*2*	mg/L		EPA 300.0	5/8/15	5/8/15	MSS
Nitrate as NO3	<2.00	2.00	*45*	mg/L		EPA 300.0	5/8/15	5/8/15	MSS
Electrical Conductivity	0.89	0.010		mmhos/cm		SM 2510B	5/8/15	5/8/15	SAM
Bromide	0.30	0.10		mg/L		EPA 300.0	5/8/15	5/8/15	MSS
Chloride	82	20		mg/L		EPA 300.0	5/8/15	5/8/15	MSS
pH	7.68			pH Units		EPA 150.1	5/8/15	5/8/15	SAM
Sulfate as SO4	6.2	0.50		mg/L		EPA 300.0	5/8/15	5/8/15	MSS
Total Dissolved Solids	570	10		mg/L		SM 2540C	5/8/15	5/8/15	SAM
Hardness									

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7500 Meany Avenue	Project #:	Reported: 07/01/2015
Bakersfield, CA 93308	Attention: Christine L. Zimmerman	Received: 05/08/2015 13:45

Lab Sample ID: **1505110-01**
Client Sample ID: Kern Front 2 CP-1

Collected By: Justin Graves
Date Collected: 5/8/2015 10:30:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Hardness								
Hardness (as CaCO3)	40	2.0	mg/L		SM 2340B	5/15/15	5/15/15	SS
Metals - As Received								
Lithium	<0.10	0.10	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Magnesium	3.1	0.050	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Potassium	2.4	0.50	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Sodium	200	7.0	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Calcium	11	0.050	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Iron	0.17	0.10	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Boron	1.1	0.10	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Barium	<0.10	0.10	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Copper	0.050	0.050	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Silica (SiO2)	83	4.0	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Strontium	0.14	0.10	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Manganese	<0.030	0.030	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Petroleum Hydrocarbons								
Diesel Range Hydrocarbons	14.8	0.50	mg/L		SW846 8015B	5/20/15	5/21/15	BIG
Gasoline Range Hydrocarbons	<0.050	0.050	mg/L		SW846 8015B	5/20/15	5/20/15	HLP
Motor Oil Range Hydrocarbons	22.5	1.50	mg/L		SW846 8015B	5/20/15	5/21/15	BIG

Surrogates	% Recovery	Recovery Limits	Flag		
a,a,a-Trifluorotoluene	91.2	69-125		5/20/15 15:05	

Semivolatile Organic Compounds								
Indeno(1,2,3-cd)pyrene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Naphthalene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Acenaphthylene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Acenaphthene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Fluorene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Phenanthrene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Anthracene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Fluoranthene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Pyrene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM

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Project: RWQCB Oilfield Ponds - 2Q2015
Project #:
Attention: Christine L. Zimmerman

Work Order No.: **1505110**
Reported: 07/01/2015
Received: 05/08/2015 13:45

Lab Sample ID: **1505110-01**
Client Sample ID: Kern Front 2 CP-1

Collected By: Justin Graves
Date Collected: 5/8/2015 10:30:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
Benzo (a) anthracene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Chrysene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Benzo (b) fluoranthene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Benzo (k) fluoranthene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Benzo (a) pyrene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Dibenz (a,h) anthracene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Benzo (g,h,i) perylene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM

Surrogates	% Recovery	Recovery Limits	Flag	
Nitrobenzene-d5	49.8	0-95		5/20/15 14:28
2-Fluorobiphenyl	43.8	0-92		5/20/15 14:28
Terphenyl-dl4	30.2	0-100		5/20/15 14:28

Analyte	Results	PQL	Units	Method	Date Prepared	Date Analyzed	Init.
Subcontracted Analyses							
Gross Alpha	<15.0	15.0	pCi/L	SM 7110C	5/26/15	5/27/15	MCS
Radium-226	<3.00	3.00	pCi/L	E903.1	5/19/15	5/22/15	MCS
Radium-228	<2.00	2.00	pCi/L	EPA Ra-05	5/28/15	5/30/15	MCS
Uranium (ug/L)	<20.0	20.0	pCi/L	E908	5/29/15	5/29/15	MCS
Volatile Organic Compounds							
Acetone	79.4	50.0	ug/L	SW846 8260B	5/20/15	5/20/15	HLP
Acrolein	<20.0	20.0	ug/L	SW846 8260B	5/20/15	5/20/15	HLP
Acrylonitrile	<20.0	20.0	ug/L	SW846 8260B	5/20/15	5/20/15	HLP
Benzene	<5.00	5.00	ug/L	SW846 8260B	5/20/15	5/20/15	HLP
Bromochloromethane	<5.00	5.00	ug/L	SW846 8260B	5/20/15	5/20/15	HLP
m,p-Xylene	<5.00	5.00	ug/L	SW846 8260B	5/20/15	5/20/15	HLP
Benzene	<5.00	5.00	ug/L	SW846 8260B	5/20/15	5/20/15	HLP
Bromodichloromethane	<5.00	5.00	ug/L	SW846 8260B	5/20/15	5/20/15	HLP
Xylenes, total	0.00		ug/L	SW846 8260B	5/20/15	5/20/15	HLP
Bromoform	<5.00	5.00	ug/L	SW846 8260B	5/20/15	5/20/15	HLP
Methyl tert-Butyl Ether	<5.00	5.00	ug/L	SW846 8260B	5/20/15	5/20/15	HLP
Bromomethane	<5.00	5.00	ug/L	SW846 8260B	5/20/15	5/20/15	HLP
2-Butanone	<50.0	50.0	ug/L	SW846 8260B	5/20/15	5/20/15	HLP
Tert-butyl alcohol	<50.0	50.0	ug/L	SW846 8260B	5/20/15	5/20/15	HLP
Carbon disulfide	20.8	5.00	ug/L	SW846 8260B	5/20/15	5/20/15	HLP

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Client Sample ID: Kern Front 2 CP-1	Date Collected: 5/8/2015 10:30:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Volatile Organic Compounds								
Carbon tetrachloride	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Chlorobenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Chloroethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
2-Chloroethylvinyl ether	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Chloroform	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Chloromethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,2-Dibromo-3-chloropropane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,2-Dibromoethane (EDB)	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Dibromomethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,2-Dichlorobenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,3-Dichlorobenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,4-Dichlorobenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Dichlorodifluoromethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,1-Dichloroethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,2-Dichloroethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,1-Dichloroethene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
trans-1,2-Dichloroethene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,2-Dichloropropane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
cis-1,3-Dichloropropene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
trans-1,3-Dichloropropene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Bromobenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
n-Butylbenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
sec-Butylbenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Ethyl acetate	<50.0	50.0	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Ethylbenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
tert-Butylbenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
2-Chlorotoluene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Ethylbenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
4-Chlorotoluene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Dibromochloromethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
cis-1,2-Dichloroethene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,3-Dichloropropane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Hexachlorobutadiene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Toluene	7.50	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
2,2-Dichloropropane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP

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Volatile Organic Compounds								
1,1-Dichloropropene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
2-Hexanone	<50.0	50.0	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Di-isopropyl ether	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Ethyl tert-Butyl Ether	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Iodomethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
4-Isopropyltoluene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Isopropylbenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
o-Xylene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Methyl tert-Butyl Ether	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
n-Propyl Benzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Tert-Amyl Methyl Ether	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,2,3-Trichlorobenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,2,4-Trimethylbenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Methylene chloride	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,3,5-Trimethylbenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
4-Methyl-2-pentanone	<50.0	50.0	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Xylenes, total	0.00		ug/L		SW846 8260B	5/20/15	5/20/15	HLP
m,p-Xylene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Naphthalene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,1,2-Trichloro-1,2,2-Trifluoro ethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Styrene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,1,1,2-Tetrachloroethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,1,2,2-Tetrachloroethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Tetrachloroethene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Toluene	7.50	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,2,4-Trichlorobenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,1,1-Trichloroethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,1,2-Trichloroethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Trichloroethene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Trichlorofluoromethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,2,3-Trichloropropane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Vinyl acetate	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Vinyl chloride	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
o-Xylene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP

Surrogates	% Recovery	Recovery Limits	Flag

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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ZALCO LABORATORIES, INC.
Analytical & Consulting Services

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Bakersfield, California 93308

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Valley Water Management Company	Project: RWQCB Oilfield Ponds - 2Q2015	Work Order No.: **1505110**
7500 Meany Avenue	Project #:	Reported: 07/01/2015
Bakersfield, CA 93308	Attention: Christine L. Zimmerman	Received: 05/08/2015 13:45

Lab Sample ID: **1505110-01**
Client Sample ID: Kern Front 2 CP-1

Collected By: Justin Graves
Date Collected: 5/8/2015 10:30:00AM

Analyte	Results	PQL		Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Volatile Organic Compounds									
1,2-Dichloroethane-d4	91.1	89-165						5/20/15 9:19	
Toluene-d8	93.0	65-124						5/20/15 9:19	
4-Bromofluorobenzene	97.5	94-114						5/20/15 9:19	

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ZALCO LABORATORIES, INC.

4309 Armour Avenue, Bakersfield, CA 93308 (661) 395-0539 FAX (661) 395-3069
2186 Eastman Avenue, Suite 103, Ventura, CA 93003, (805) 477-0114, Fax (805) 477-0125
www.zalcolabs.com

CHAIN OF CUSTODY, ID# _____

Client PO: _____
Project ID: _____
Quote ID: _____

ANALYSIS REQUESTED 1505110

COMPANY: **Valley Water Management Company**
CONTACT: Christine L. Zimmerman
PHONE: 661-205-2885 FAX: _____
ADDRESS: 7500 Meany Ave.
Bakersfield Ca. 93314
E-MAIL: czimmerman@vwwater.com
SAMPLER (SIGNATURE): _____

COMMENTS
Turnaround Time:
Routine (# working days) ☐
Rush By ☐ Working Days
EDT ☐
State Form ☐
EMAIL ☐
Notes

LAB #	SAMPLE DESCRIPTION	DATE	TIME	TYPE *	# OF CONTAINERS	GeoChem	TDS	CAM 17	Trace Elements	PNA (8270)	BTEX (8260)	TPH (Fuel Fingerprint)	Radionuclides		No Sample Available (Dry Pond)				TEMPERATURE (C)	Notes
1	Kern Front 2 CP-1	5/8/2015	10:30	AQ	12	X		X		X	X	X	X							34.2

Relinquished By | Company | Date | Time | Received By | Company

Justin Graves	Zalco Laboratories Inc.	05/08/15	1345		Zalco

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

* Sample Type Key: Aq-Aqueous; BS-Biosolid; DW-Drinking Water; GW-Groundwater; G-Gas LPG-Liquid Petroleum Gas; OL-Oil; P-Petroleum; S-Solid/Soil; ST-Storm water WW-Wastewater

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Bakersfield, California 93308

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FAX (661) 395-3069

July 1, 2015

Christine L. Zimmerman
Valley Water Management Company
7500 Meany Avenue
Bakersfield, CA 93308

TEL: (661) 205-2885
FAX: (661) 410-7500

Project ID:
RE: 1505111

Dear Christine L. Zimmerman:

Zalco Laboratories, Inc. received 1 samples on 5/8/2015 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
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Valley Water Management Company	Project: RWQCB Oilfield Ponds - 2Q2015	Work Order No.: **1505111**
7500 Meany Avenue	Project #:	Reported: 07/01/2015
Bakersfield, CA 93308	Attention: Christine L. Zimmerman	Received: 05/08/2015 13:45

Lab Sample ID: **1505111-01**
Client Sample ID: Kern Front 2 CP-2

Collected By: Justin Graves
Date Collected: 5/8/2015 10:40:00AM

Analyte	Results	PQL		Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Alkalinity									
Total Alkalinity	320	10		mg/L		SM 2320B	5/8/15	5/8/15	SAM
Bicarbonate (HCO3)	320	10		mg/L		SM 2320B	5/8/15	5/8/15	SAM
Carbonate (CO3)	<10	10		mg/L		SM 2320B	5/8/15	5/8/15	SAM
Hydroxide (OH)	<10	10		mg/L		SM 2320B	5/8/15	5/8/15	SAM
CAM, Toxicity (17 Metals)			*TTLC Limits*						
Antimony	<0.20	0.20	*500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Arsenic	0.041	0.020	*500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Barium	<0.10	0.10	*10000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Beryllium	<0.010	0.010	*75*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Cadmium	<0.010	0.010	*100*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Chromium	<0.050	0.050	*2500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Cobalt	<0.10	0.10	*8000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Copper	0.056	0.050	*2500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Lead	<0.050	0.050	*1000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Mercury	<0.0020	0.0020	*20*	mg/L		SW846 7470A	5/12/15	5/12/15	SS
Molybdenum	<0.10	0.10	*3500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Nickel	<0.050	0.050	*2000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Selenium	<0.05	0.05	*100*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Silver	<0.020	0.020	*500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Thallium	<0.50	0.50	*700*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Vanadium	<0.10	0.10	*2400*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Zinc	<0.050	0.050	*5000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
General Chemistry			*MCL Limits*						
Fluoride	0.65	0.10	*2*	mg/L		EPA 300.0	5/8/15	5/8/15	MSS
Nitrate as NO3	<2.00	2.00	*45*	mg/L		EPA 300.0	5/8/15	5/8/15	MSS
Electrical Conductivity	0.88	0.010		mmhos/cm		SM 2510B	5/8/15	5/8/15	SAM
Bromide	0.30	0.10		mg/L		EPA 300.0	5/8/15	5/8/15	MSS
Chloride	81	20		mg/L		EPA 300.0	5/8/15	5/8/15	MSS
pH	7.72			pH Units		EPA 150.1	5/8/15	5/8/15	SAM
Sulfate as SO4	6.7	0.50		mg/L		EPA 300.0	5/8/15	5/8/15	MSS
Total Dissolved Solids	600	10		mg/L		SM 2540C	5/8/15	5/8/15	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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Valley Water Management Company	Project: RWQCB Oilfield Ponds - 2Q2015	Work Order No.: **1505111**
7500 Meany Avenue	Project #:	Reported: 07/01/2015
Bakersfield, CA 93308	Attention: Christine L. Zimmerman	Received: 05/08/2015 13:45

Lab Sample ID: **1505111-01**
Client Sample ID: Kern Front 2 CP-2

Collected By: Justin Graves
Date Collected: 5/8/2015 10:40:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Hardness								
Hardness (as CaCO3)	41	2.0	mg/L		SM 2340B	5/15/15	5/15/15	SS
Metals - As Received								
Lithium	<0.10	0.10	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Magnesium	3.3	0.050	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Potassium	2.7	0.50	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Sodium	210	7.0	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Calcium	11	0.050	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Iron	0.26	0.10	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Boron	1.0	0.10	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Barium	<0.10	0.10	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Copper	0.051	0.050	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Silica (SiO2)	82	4.0	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Strontium	0.15	0.10	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Manganese	<0.030	0.030	mg/L		EPA 200.7	5/15/15	5/15/15	SS
Petroleum Hydrocarbons								
Diesel Range Hydrocarbons	13.9	0.50	mg/L		SW846 8015B	5/20/15	5/21/15	BIG
Gasoline Range Hydrocarbons	<0.050	0.050	mg/L		SW846 8015B	5/20/15	5/20/15	HLP
Motor Oil Range Hydrocarbons	20.0	1.50	mg/L		SW846 8015B	5/20/15	5/21/15	BIG

Surrogates	% Recovery	Recovery Limits	Flag		
a,a,a-Trifluorotoluene	108	69-125			5/20/15 15:05

Semivolatile Organic Compounds								
Indeno(1,2,3-cd)pyrene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Naphthalene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Acenaphthylene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Acenaphthene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Fluorene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Phenanthrene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Anthracene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Fluoranthene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Pyrene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM

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FAX (661) 395-3069

Valley Water Management Company
7500 Meany Avenue
Bakersfield, CA 93308

Project: RWQCB Oilfield Ponds - 2Q2015
Project #:
Attention: Christine L. Zimmerman

Work Order No.: **1505111**
Reported: 07/01/2015
Received: 05/08/2015 13:45

Lab Sample ID: **1505111-01**
Client Sample ID: Kern Front 2 CP-2

Collected By: Justin Graves
Date Collected: 5/8/2015 10:40:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
Benzo (a) anthracene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Chrysene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Benzo (b) fluoranthene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Benzo (k) fluoranthene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Benzo (a) pyrene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Dibenz (a,h) anthracene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM
Benzo (g,h,i) perylene	<10.0	10.0	ug/L		SW846 8270C	5/14/15	5/20/15	JMM

Surrogates	% Recovery	Recovery Limits	Flag	
Nitrobenzene-d5	53.0	0-95		5/20/15 14:28
2-Fluorobiphenyl	55.9	0-92		5/20/15 14:28
Terphenyl-dl4	40.2	0-100		5/20/15 14:28

Subcontracted Analyses								
Gross Alpha	<15.0	15.0	pCi/L		SM 7110C	5/26/15	5/27/15	MCS
Radium-226	<3.00	3.00	pCi/L		E903.1	5/18/15	5/22/15	MCS
Radium-228	<2.00	2.00	pCi/L		EPA Ra-05	5/28/15	5/30/15	MCS
Uranium (ug/L)	<20.0	20.0	pCi/L		E908	5/29/15	5/29/15	MCS
Volatile Organic Compounds								
Acetone	53.9	50.0	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Acrolein	<20.0	20.0	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Acrylonitrile	<20.0	20.0	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Benzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Bromochloromethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
m,p-Xylene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Benzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Bromodichloromethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Xylenes, total	0.00		ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Bromoform	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Methyl tert-Butyl Ether	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Bromomethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
2-Butanone	<50.0	50.0	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Tert-butyl alcohol	<50.0	50.0	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Carbon disulfide	12.4	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP

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Valley Water Management Company	Project: RWQCB Oilfield Ponds - 2Q2015	Work Order No.: **1505111**
7500 Meany Avenue	Project #:	Reported: 07/01/2015
Bakersfield, CA 93308	Attention: Christine L. Zimmerman	Received: 05/08/2015 13:45

Lab Sample ID: **1505111-01**
Client Sample ID: Kern Front 2 CP-2

Collected By: Justin Graves
Date Collected: 5/8/2015 10:40:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Volatile Organic Compounds								
Carbon tetrachloride	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Chlorobenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Chloroethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
2-Chloroethylvinyl ether	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Chloroform	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Chloromethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,2-Dibromo-3-chloropropane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,2-Dibromoethane (EDB)	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Dibromomethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,2-Dichlorobenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,3-Dichlorobenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,4-Dichlorobenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Dichlorodifluoromethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,1-Dichloroethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,2-Dichloroethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,1-Dichloroethene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
trans-1,2-Dichloroethene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,2-Dichloropropane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
cis-1,3-Dichloropropene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
trans-1,3-Dichloropropene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Bromobenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
n-Butylbenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
sec-Butylbenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Ethyl acetate	<50.0	50.0	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Ethylbenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
tert-Butylbenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
2-Chlorotoluene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Ethylbenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
4-Chlorotoluene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Dibromochloromethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
cis-1,2-Dichloroethene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,3-Dichloropropane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Hexachlorobutadiene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Toluene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
2,2-Dichloropropane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP

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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ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

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

Valley Water Management Company	Project: RWQCB Oilfield Ponds - 2Q2015	Work Order No.: **1505111**
7500 Meany Avenue	Project #:	Reported: 07/01/2015
Bakersfield, CA 93308	Attention: Christine L. Zimmerman	Received: 05/08/2015 13:45

Lab Sample ID: **1505111-01**
Client Sample ID: Kern Front 2 CP-2

Collected By: Justin Graves
Date Collected: 5/8/2015 10:40:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Volatile Organic Compounds								
1,1-Dichloropropene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
2-Hexanone	<50.0	50.0	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Di-isopropyl ether	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Ethyl tert-Butyl Ether	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Iodomethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
4-Isopropyltoluene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Isopropylbenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
o-Xylene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Methyl tert-Butyl Ether	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
n-Propyl Benzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Tert-Amyl Methyl Ether	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,2,3-Trichlorobenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,2,4-Trimethylbenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Methylene chloride	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,3,5-Trimethylbenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
4-Methyl-2-pentanone	<50.0	50.0	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Xylenes, total	0.00		ug/L		SW846 8260B	5/20/15	5/20/15	HLP
m,p-Xylene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Naphthalene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,1,2-Trichloro-1,2,2-Trifluoro ethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Styrene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,1,1,2-Tetrachloroethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,1,2,2-Tetrachloroethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Tetrachloroethene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Toluene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,2,4-Trichlorobenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,1,1-Trichloroethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,1,2-Trichloroethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Trichloroethene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Trichlorofluoromethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,2,3-Trichloropropane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Vinyl acetate	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Vinyl chloride	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
o-Xylene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP

Surrogates	% Recovery	Recovery Limits	Flag

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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Valley Water Management Company	Project: RWQCB Oilfield Ponds - 2Q2015	Work Order No.: **1505111**
7500 Meany Avenue	Project #:	Reported: 07/01/2015
Bakersfield, CA 93308	Attention: Christine L. Zimmerman	Received: 05/08/2015 13:45

Lab Sample ID: **1505111-01**	Collected By: Justin Graves
Client Sample ID: Kern Front 2 CP-2	Date Collected: 5/8/2015 10:40:00AM

Analyte	Results	PQL		Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Volatile Organic Compounds									
1,2-Dichloroethane-d4	**86.5***		89-165	S-GC				5/20/15 9:19	
Toluene-d8	86.5		65-124					5/20/15 9:19	
4-Bromofluorobenzene	**90.5***		94-114	S-GC				5/20/15 9:19	

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4309 Armour Avenue, Bakersfield, CA 93308 (661) 395-0539 FAX (661) 395-3069
2186 Eastman Avenue, Suite 103, Ventura, CA 93003, (805) 477-0114, Fax (805) 477-0125
www.zalcolabs.com

CHAIN OF CUSTODY, ID# _____

Client PO: _____
Project ID: _____
Quote ID: _____

ANALYSIS REQUESTED 1505111

COMPANY: **Valley Water Management Company**
CONTACT: Christine L. Zimmerman
PHONE: 661-205-2885 FAX: _____
ADDRESS: 7500 Meany Ave.
Bakersfield Ca. 93314
E-MAIL: czimmerman@vvwater.com
SAMPLER (SIGNATURE): _____

LAB #	SAMPLE DESCRIPTION	DATE	TIME	TYPE *	# OF CONTAINERS	GeoChem	TDS	CAM 17	Trace Elements	PNA (8270)	BTEX (8260)	TPH (Fuel Fingerprint)	Radionuclides		No Sample Available (Dry Pond)			TEMPERATURE (C)	Notes
1	Kern Front 2 CP-2	5/8/2015	10:40	AQ	12	X		X		X	X	X	X						

COMMENTS
Turnaround Time:
Routine (# working days) ☐
Rush By ☐ Working Days
EDT ☐
State Form ☐
EMAIL ☐
Notes

Justin Graves	Zalco Laboratories Inc.	05/08/15	1345			Zalco

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

* Sample Type Key: Aq-Aqueous; BS-Biosolid; DW-Drinking Water; GW-Groundwater; G-Gas LPG-Liquid Petroleum Gas; OL-Oil; P-Petroleum; S-Solid/Soil; ST-Storm water WW-Wastewater

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July 1, 2015

Christine L. Zimmerman
Valley Water Management Company
7500 Meany Avenue
Bakersfield, CA 93308

TEL: (661) 205-2885
FAX: (661) 410-7500

Project ID:
RE: 1505112

Dear Christine L. Zimmerman:

Zalco Laboratories, Inc. received 1 samples on 5/8/2015 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
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Valley Water Management Company	Project: RWQCB Oilfield Ponds - 2Q2015	Work Order No.: **1505112**
7500 Meany Avenue	Project #:	Reported: 07/01/2015
Bakersfield, CA 93308	Attention: Christine L. Zimmerman	Received: 05/08/2015 13:45

Lab Sample ID: **1505112-01**	Collected By: Justin Graves
Client Sample ID: Kern Front 2 P-1	Date Collected: 5/8/2015 10:55:00AM

Analyte	Results	PQL		Units	Flag	Method	Date Prepared	Date Analyzed	Init.
CAM, Toxicity (17 Metals)			*TTLC Limits*						
Antimony	<0.20	0.20	*500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Arsenic	0.038	0.020	*500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Barium	<0.10	0.10	*10000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Beryllium	<0.010	0.010	*75*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Cadmium	<0.010	0.010	*100*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Chromium	<0.050	0.050	*2500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Cobalt	<0.10	0.10	*8000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Copper	<0.050	0.050	*2500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Lead	<0.050	0.050	*1000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Mercury	<0.0020	0.0020	*20*	mg/L		SW846 7470A	5/12/15	5/12/15	SS
Molybdenum	<0.10	0.10	*3500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Nickel	<0.050	0.050	*2000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Selenium	<0.05	0.05	*100*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Silver	<0.020	0.020	*500*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Thallium	<0.50	0.50	*700*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Vanadium	<0.10	0.10	*2400*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
Zinc	<0.050	0.050	*5000*	mg/L		SW846 6010B	5/11/15	5/12/15	SS
General Chemistry			*MCL Limits*						
Total Dissolved Solids	580	10		mg/L		SM 2540C	5/8/15	5/8/15	SAM
Petroleum Hydrocarbons									
Diesel Range Hydrocarbons	2.39	0.05		mg/L		SW846 8015B	5/20/15	5/21/15	BIG
Gasoline Range Hydrocarbons	<0.050	0.050		mg/L		SW846 8015B	5/20/15	5/20/15	HLP
Motor Oil Range Hydrocarbons	3.75	0.15		mg/L		SW846 8015B	5/20/15	5/21/15	BIG

Surrogates	% Recovery	Recovery Limits	Flag			
a,a,a-Trifluorotoluene	94.0	69-125				5/20/15 15:05
Volatile Organic Compounds						
Acetone	<50.0	50.0		ug/L	SW846 8260B	5/20/15	5/20/15	HLP
Acrolein	<20.0	20.0		ug/L	SW846 8260B	5/20/15	5/20/15	HLP
Acrylonitrile	<20.0	20.0		ug/L	SW846 8260B	5/20/15	5/20/15	HLP
Benzene	<5.00	5.00		ug/L	SW846 8260B	5/20/15	5/20/15	HLP

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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Valley Water Management Company	Project: RWQCB Oilfield Ponds - 2Q2015	Work Order No.: **1505112**
7500 Meany Avenue	Project #:	Reported: 07/01/2015
Bakersfield, CA 93308	Attention: Christine L. Zimmerman	Received: 05/08/2015 13:45

Lab Sample ID: **1505112-01**	Collected By: Justin Graves
Client Sample ID: Kern Front 2 P-1	Date Collected: 5/8/2015 10:55:00AM

Volatile Organic Compounds

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Bromochloromethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
m,p-Xylene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Benzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Bromodichloromethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Xylenes, total	0.00		ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Bromoform	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Methyl tert-Butyl Ether	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Bromomethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
2-Butanone	<50.0	50.0	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Tert-butyl alcohol	<50.0	50.0	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Carbon disulfide	5.92	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Carbon tetrachloride	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Chlorobenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Chloroethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
2-Chloroethylvinyl ether	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Chloroform	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Chloromethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,2-Dibromo-3-chloropropane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,2-Dibromoethane (EDB)	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Dibromomethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,2-Dichlorobenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,3-Dichlorobenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,4-Dichlorobenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Dichlorodifluoromethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,1-Dichloroethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,2-Dichloroethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,1-Dichloroethene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
trans-1,2-Dichloroethene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,2-Dichloropropane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
cis-1,3-Dichloropropene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
trans-1,3-Dichloropropene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Bromobenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
n-Butylbenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
sec-Butylbenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Ethyl acetate	<50.0	50.0	ug/L		SW846 8260B	5/20/15	5/20/15	HLP

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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Valley Water Management Company	Project: RWQCB Oilfield Ponds - 2Q2015	Work Order No.: **1505112**
7500 Meany Avenue	Project #:	Reported: 07/01/2015
Bakersfield, CA 93308	Attention: Christine L. Zimmerman	Received: 05/08/2015 13:45

Lab Sample ID: **1505112-01**	Collected By: Justin Graves
Client Sample ID: Kern Front 2 P-1	Date Collected: 5/8/2015 10:55:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Volatile Organic Compounds								
Ethylbenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
tert-Butylbenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
2-Chlorotoluene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Ethylbenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
4-Chlorotoluene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Dibromochloromethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
cis-1,2-Dichloroethene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,3-Dichloropropane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Hexachlorobutadiene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Toluene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
2,2-Dichloropropane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,1-Dichloropropene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
2-Hexanone	<50.0	50.0	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Di-isopropyl ether	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Ethyl tert-Butyl Ether	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Iodomethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
4-Isopropyltoluene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Isopropylbenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
o-Xylene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Methyl tert-Butyl Ether	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
n-Propyl Benzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Tert-Amyl Methyl Ether	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,2,3-Trichlorobenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,2,4-Trimethylbenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Methylene chloride	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,3,5-Trimethylbenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
4-Methyl-2-pentanone	<50.0	50.0	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Xylenes, total	0.00		ug/L		SW846 8260B	5/20/15	5/20/15	HLP
m,p-Xylene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Naphthalene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,1,2-Trichloro-1,2,2-Trifluoro ethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Styrene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,1,1,2-Tetrachloroethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,1,2,2-Tetrachloroethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Tetrachloroethene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP

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

Valley Water Management Company	Project: RWQCB Oilfield Ponds - 2Q2015	Work Order No.: **1505112**
7500 Meany Avenue	Project #:	Reported: 07/01/2015
Bakersfield, CA 93308	Attention: Christine L. Zimmerman	Received: 05/08/2015 13:45

Lab Sample ID: **1505112-01**	Collected By: Justin Graves
Client Sample ID: Kern Front 2 P-1	Date Collected: 5/8/2015 10:55:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Volatile Organic Compounds								
Toluene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,2,4-Trichlorobenzene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,1,1-Trichloroethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,1,2-Trichloroethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Trichloroethene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Trichlorofluoromethane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
1,2,3-Trichloropropane	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Vinyl acetate	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
Vinyl chloride	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP
o-Xylene	<5.00	5.00	ug/L		SW846 8260B	5/20/15	5/20/15	HLP

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	89.9	89-165		5/20/15 9:19
Toluene-d8	110	65-124		5/20/15 9:19
4-Bromofluorobenzene	95.4	94-114		5/20/15 9:19

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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2186 Eastman Avenue, Suite 103, Ventura, CA 93003, (805) 477-0114, Fax (805) 477-0125
www.zalcolabs.com

CHAIN OF CUSTODY, ID# _____

Client PO: _____
Project ID: _____
Quote ID: _____

ANALYSIS REQUESTED 150512

COMPANY: Valley Water Management Company
CONTACT: Christine L. Zimmerman
PHONE: 661-205-2885 FAX: _____
ADDRESS: 7500 Meany Ave.
Bakersfield Ca. 93314
E-MAIL: czimmerman@vvwater.com
SAMPLER (SIGNATURE): _____

LAB #	SAMPLE DESCRIPTION	DATE	TIME	TYPE *	# OF CONTAINERS	GeoChem	TDS	CAM 17	Trace Elements	PNA (8270)	BTEX (8260)	TPH (Fuel Fingerprint)	Radionuclides		No Sample Available (Dry Pond)				TEMPERATURE (°C)	Notes
1	Kern Front 2 P-1	5/8/2015	10:55	AQ	12		X	X			X	X								21.6

COMMENTS
Turnaround Time:
Routine (# working days) ☐
Rush By ____ Working Days
EDT ☐
State Form ☐
EMAIL ☐
Notes

Relinquished By	Received	Date	Time		Received By	Company
Justin Graves	Zalco Laboratories Inc.	05/08/15	1345			Zalco

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

* Sample Type Key: Aq-Aqueous; BS-Biosolid; DW-Drinking Water; GW-Groundwater; G-Gas LPG-Liquid Petroleum Gas; OL-Oil; P-Petroleum; S-Solid/Soil; ST-Storm water WW-Wastewater