

ZALCO LABORATORIES, INC.

Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

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

June 25, 2015

Jesse Frederick
WZI Inc
1717 28th St
Bakersfield, CA 93301

TEL: (661) 326-1112
FAX: (661) 326-0191

Project ID:
RE: 1505349

Dear Jesse Frederick:

Zalco Laboratories, Inc. received 1 samples on 5/28/2015 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,

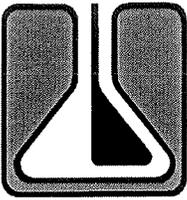
A handwritten signature in cursive script, appearing to read "Juan Magana".

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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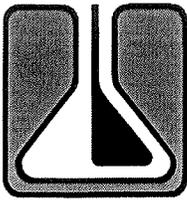
WZI Inc 1717 28th St Bakersfield, CA 93301	Project: RWQCB Oilfield Ponds - 2Q2015 Project #: Attention: Jesse Frederick	Work Order No.: 1505349 Reported: 06/25/2015 Received: 05/28/2015 08:00
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Lab Sample ID: 1505349-01	Collected By:
Client Sample ID: Longview Surflluh 14 Injection Water Tank	Date Collected: 5/27/2015 1:40:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Alkalinity								
Total Alkalinity	130	10	mg/L		SM 2320B	5/28/15	5/28/15	SAM
Bicarbonate (HCO3)	130	10	mg/L		SM 2320B	5/28/15	5/28/15	SAM
Carbonate (CO3)	<10	10	mg/L		SM 2320B	5/28/15	5/28/15	SAM
Hydroxide (OH)	<10	10	mg/L		SM 2320B	5/28/15	5/28/15	SAM
CAM, Toxicity (17 Metals)								
<i>TTL Limits</i>								
Antimony	<2.0	2.0	500	mg/L	SW846 6010B	5/28/15	5/29/15	SS
Arsenic	<0.20	0.20	500	mg/L	SW846 6010B	5/28/15	5/29/15	SS
Barium	43	1.0	10000	mg/L	SW846 6010B	5/28/15	5/29/15	SS
Beryllium	<0.10	0.10	75	mg/L	SW846 6010B	5/28/15	5/29/15	SS
Cadmium	<0.10	0.10	100	mg/L	SW846 6010B	5/28/15	5/29/15	SS
Chromium	<0.50	0.50	2500	mg/L	SW846 6010B	5/28/15	5/29/15	SS
Cobalt	<1.0	1.0	8000	mg/L	SW846 6010B	5/28/15	5/29/15	SS
Copper	<0.50	0.50	2500	mg/L	SW846 6010B	5/28/15	5/29/15	SS
Lead	<0.50	0.50	1000	mg/L	SW846 6010B	5/28/15	5/29/15	SS
Mercury	<0.0020	0.0020	20	mg/L	SW846 7470A	5/28/15	5/28/15	SS
Molybdenum	<1.0	1.0	3500	mg/L	SW846 6010B	5/28/15	5/29/15	SS
Nickel	<0.50	0.50	2000	mg/L	SW846 6010B	5/28/15	5/29/15	SS
Selenium	<0.50	0.50	100	mg/L	SW846 6010B	5/28/15	5/29/15	SS
Silver	<0.20	0.20	500	mg/L	SW846 6010B	5/28/15	5/29/15	SS
Thallium	<5.0	5.0	700	mg/L	SW846 6010B	5/28/15	5/29/15	SS
Vanadium	<1.0	1.0	2400	mg/L	SW846 6010B	5/28/15	5/29/15	SS
Zinc	<0.50	0.50	5000	mg/L	SW846 6010B	5/28/15	5/29/15	SS
General Chemistry								
<i>MCL Limits</i>								
Fluoride	130	100	2	mg/L	EPA 300.0	6/4/15	6/4/15	MSS
Nitrate as NO3	<20.0	20.0	45	mg/L	EPA 300.0	6/4/15	6/4/15	MSS
Electrical Conductivity	68	0.010		mmhos/cm	SM 2510B	5/28/15	5/28/15	SAM
Bromide	120	1.0		mg/L	EPA 300.0	6/4/15	6/4/15	MSS
Chloride	30000	2000		mg/L	EPA 300.0	6/4/15	6/4/15	MSS
pH	6.96			pH Units	EPA 150.1	5/28/15	5/28/15	SAM
Sulfate as SO4	<500	500		mg/L	EPA 300.0	6/4/15	6/4/15	MSS
Total Dissolved Solids	50000	10		mg/L	SM 2540C	6/1/15	6/1/15	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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WZI Inc 1717 28th St Bakersfield, CA 93301	Project: RWQCB Oilfield Ponds - 2Q2015 Project #: Attention: Jesse Frederick	Work Order No.: 1505349 Reported: 06/25/2015 Received: 05/28/2015 08:00
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Lab Sample ID: 1505349-01	Collected By:
Client Sample ID: Longview Surf 14 Injection Water Tank	Date Collected: 5/27/2015 1:40:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Hardness								
Hardness (as CaCO3)	8500	2.0	mg/L		SM 2340B	5/29/15	5/29/15	SS
Metals								
Lithium	1.3	1.0	mg/L		EPA 200.7	5/29/15	5/29/15	SS
Metals - As Received								
Magnesium	800	0.50	mg/L		EPA 200.7	5/29/15	5/29/15	SS
Potassium	190	5.0	mg/L		EPA 200.7	5/29/15	5/29/15	SS
Sodium	14000	350	mg/L		EPA 200.7	5/29/15	5/29/15	SS
Calcium	2100	0.50	mg/L		EPA 200.7	5/29/15	5/29/15	SS
Iron	8.3	1.0	mg/L		EPA 200.7	5/29/15	5/29/15	SS
Boron	11	1.0	mg/L		EPA 200.7	5/29/15	5/29/15	SS
Barium	41	1.0	mg/L		EPA 200.7	5/29/15	5/29/15	SS
Copper	<0.50	0.50	mg/L		EPA 200.7	5/29/15	5/29/15	SS
Silica (SiO2)	63	40	mg/L		EPA 200.7	5/29/15	5/29/15	SS
Strontium	28	1.0	mg/L		EPA 200.7	5/29/15	5/29/15	SS
Manganese	3.1	0.30	mg/L		EPA 200.7	5/29/15	5/29/15	SS
Petroleum Hydrocarbons								
Diesel Range Hydrocarbons	18700	500	mg/kg		SW846 8015B	5/30/15	6/2/15	BIG
Gasoline Range Hydrocarbons	5.70	0.250	mg/L		SW846 8015B	6/3/15	6/3/15	HLP
Motor Oil Range Hydrocarbons	22900	1250	mg/kg		SW846 8015B	5/30/15	6/2/15	BIG

Surrogates	% Recovery	Recovery Limits	Flag
a,a,a-Trifluorotoluene	117	69-125	

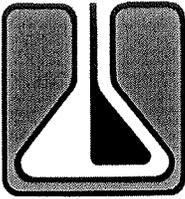
Semivolatile Organic Compounds

Indeno(1,2,3-cd)pyrene	<12.5	12.5	ug/L	SW846 8270C	5/28/15	5/29/15	JMM
Naphthalene	35.4	12.5	ug/L	SW846 8270C	5/28/15	5/29/15	JMM
Acenaphthylene	<12.5	12.5	ug/L	SW846 8270C	5/28/15	5/29/15	JMM
Acenaphthene	<12.5	12.5	ug/L	SW846 8270C	5/28/15	5/29/15	JMM
Fluorene	6.3	12.5	ug/L	SW846 8270C	5/28/15	5/29/15	JMM
Phenanthrene	6.7	12.5	ug/L	SW846 8270C	5/28/15	5/29/15	JMM
Anthracene	<12.5	12.5	ug/L	SW846 8270C	5/28/15	5/29/15	JMM

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Lab Sample ID: 1505349-01	Collected By:
Client Sample ID: Longview Surflood 14 Injection Water Tank	Date Collected: 5/27/2015 1:40:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
Fluoranthene	<12.5	12.5	ug/L		SW846 8270C	5/28/15	5/29/15	JMM
Pyrene	<12.5	12.5	ug/L		SW846 8270C	5/28/15	5/29/15	JMM
Benzo (a) anthracene	<12.5	12.5	ug/L		SW846 8270C	5/28/15	5/29/15	JMM
Chrysene	<12.5	12.5	ug/L		SW846 8270C	5/28/15	5/29/15	JMM
Benzo (b) fluoranthene	<12.5	12.5	ug/L		SW846 8270C	5/28/15	5/29/15	JMM
Benzo (k) fluoranthene	<12.5	12.5	ug/L		SW846 8270C	5/28/15	5/29/15	JMM
Benzo (a) pyrene	<12.5	12.5	ug/L		SW846 8270C	5/28/15	5/29/15	JMM
Dibenz (a,h) anthracene	<12.5	12.5	ug/L		SW846 8270C	5/28/15	5/29/15	JMM
Benzo (g,h,i) perylene	<12.5	12.5	ug/L		SW846 8270C	5/28/15	5/29/15	JMM

Surrogates	% Recovery	Recovery Limits	Flag
Nitrobenzene-d5	14.6	0-95	5/29/15 11:02
2-Fluorobiphenyl	11.9	0-92	5/29/15 11:02
Terphenyl-d14	13.3	0-100	5/29/15 11:02

Subcontracted Analyses

Gross Alpha	68.8	15.0	pCi/L	SM 7110C	6/5/15	6/8/15	MCS
Radium-226	48.3	3.00	pCi/L	E903.1	6/3/15	6/9/15	MCS
Radium-228	<2.00	2.00	pCi/L	EPA Ra-05	6/12/15	6/20/15	MCS
Uranium (ug/L)	<20.0	20.0	pCi/L	E908	6/11/15	6/11/15	MCS

Volatile Organic Compounds

m,p-Xylene	207	25.0	ug/L	SW846 8260B	6/3/15	6/3/15	HLP
Benzene	238	25.0	ug/L	SW846 8260B	6/3/15	6/3/15	HLP
Xylenes, total	303		ug/L	SW846 8260B	6/3/15	6/3/15	HLP
Methyl tert-Butyl Ether	<5.00	5.00	ug/L	SW846 8260B	6/3/15	6/3/15	HLP
Ethylbenzene	59.6	25.0	ug/L	SW846 8260B	6/3/15	6/3/15	HLP
Toluene	520	25.0	ug/L	SW846 8260B	6/3/15	6/3/15	HLP
o-Xylene	96.2	25.0	ug/L	SW846 8260B	6/3/15	6/3/15	HLP

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	109	89-165	6/3/15 9:14
Toluene-d8	88.9	65-124	6/3/15 9:14
4-Bromofluorobenzene	108	94-114	6/3/15 9:14

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June 23, 2015

Lab ID : SP 1506024-001
 Customer ID : 2-249

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

Sampled On : May 27, 2015-13:40
 Sampled By : Not Available
 Received On : May 29, 2015-10:10
 Matrix : Water

Description : 1505349-01
 Project : 1505349

Sample Result - Radio

Constituent	Result ± Error	MDA	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Radio Chemistry ^{P,PS}								
Gross Alpha	68.8 ± 15.5	11.3	pCi/L	15/5	900.0	06/05/15-08:05 2P1506508	900.0	06/08/15-14:00 2A1508565
Total Alpha Radium (226)	48.3 ± 2.26	0.470	pCi/L	3	903.0	06/03/15-18:30 2P1506450	903.0	06/09/15-14:00 2A1508571
Uranium	0.000 ± 0.286	0.300	pCi/L	20	908.0	06/11/15-06:35 2P1506768	908.0	06/11/15-15:04 2A1508795
Ra 228	0.276 ± 1.09	0.400	pCi/L	2	Ra - 05	06/12/15-10:00 2P1506448	Ra - 05	06/20/15-10:30 2A1509175

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: HNO3 pH < 2 * 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.

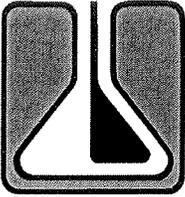
Drinking Water Compliance:

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.



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QUALITY CONTROL

Metals - As Received - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch Z505396 - Metals - As Received

Blank (Z505396-BLK1)

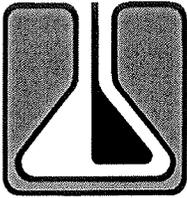
Prepared & Analyzed: 05/29/201

Magnesium	ND	0.050	mg/L							
Potassium	ND	0.50	mg/L							
Sodium	ND	7.0	mg/L							
Calcium	ND	0.050	mg/L							
Iron	ND	0.10	mg/L							
Boron	ND	0.10	mg/L							
Barium	ND	0.10	mg/L							
Copper	ND	0.050	mg/L							
Silica (SiO2)	ND	4.0	mg/L							
Strontium	ND	0.10	mg/L							
Manganese	ND	0.030	mg/L							

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QUALITY CONTROL

Metals - As Received - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch Z505396 - Metals - As Received

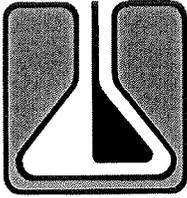
LCS (Z505396-BS1)

Prepared & Analyzed: 05/29/201

Magnesium	9.53	0.050	mg/L	10.000		95.3	80-120			
Potassium	8.4	0.50	mg/L	10.000		84.0	80-120			
Sodium	16	7.0	mg/L	20.000		80.0	80-120			
Calcium	9.10	0.050	mg/L	10.000		91.0	80-120			
Iron	1.11	0.10	mg/L	1.0000		111	80-120			
Boron	0.96	0.10	mg/L	1.0000		95.6	80-120			
Barium	1.04	0.10	mg/L	1.0000		104	80-120			
Copper	0.53	0.050	mg/L	0.50000		106	80-120			
Silica (SiO2)	21	4.0	mg/L	21.390		99.5	80-120			
Strontium	0.92	0.10	mg/L	1.0000		92.2	80-120			

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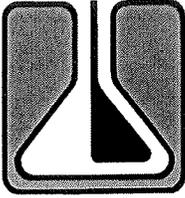
QUALITY CONTROL

Metals - As Received - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch Z505396 - Metals - As Received										
LCS Dup (Z505396-BSD1)				Prepared & Analyzed: 05/29/201						
Magnesium	9.47	0.050	mg/L	10.000		94.7	80-120	0.626	20	
Potassium	8.4	0.50	mg/L	10.000		83.8	80-120	0.209	20	
Sodium	16	7.0	mg/L	20.000		80.0	80-120	0.00	20	
Calcium	9.10	0.050	mg/L	10.000		91.0	80-120	0.0668	20	
Iron	1.10	0.10	mg/L	1.0000		110	80-120	0.578	20	
Boron	0.97	0.10	mg/L	1.0000		96.7	80-120	1.17	20	
Barium	1.03	0.10	mg/L	1.0000		103	80-120	0.213	20	
Copper	0.52	0.050	mg/L	0.50000		104	80-120	1.19	20	
Silica (SiO ₂)	21	4.0	mg/L	21.390		99.2	80-120	0.267	20	
Strontium	0.92	0.10	mg/L	1.0000		91.7	80-120	0.513	20	

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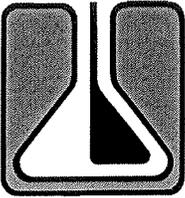
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch Z505396 - Metals - As Received

Duplicate (Z505396-DUP1)	Source: 1505287-02			Prepared & Analyzed: 05/29/201						
Magnesium	4.08	0.050	mg/L		3.71			9.64	20	
Potassium	22	0.50	mg/L		19			12.4	20	
Sodium	290	7.0	mg/L		270			6.09	20	
Calcium	44.5	0.050	mg/L		41.0			8.13	20	
Iron	0.921	0.10	mg/L		0.930			0.919	20	
Boron	0.74	0.10	mg/L		0.65			13.9	20	
Barium	0.0289	0.10	mg/L		0.0263			9.47	20	
Copper	0.042	0.050	mg/L		0.043			3.39	20	
Silica (SiO2)	63	4.0	mg/L		59			7.25	20	
Strontium	0.52	0.10	mg/L		0.46			12.3	20	
Manganese	0.21	0.030	mg/L		0.20			4.02	20	

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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QUALITY CONTROL

Metals - As Received - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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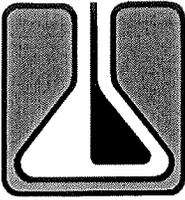
Batch Z505396 - Metals - As Received

Duplicate (Z505396-DUP2)	Source: 1505366-01			Prepared & Analyzed: 05/29/201						
Magnesium	8.83	0.050	mg/L		9.47			6.95	20	
Potassium	39	0.50	mg/L		41			6.20	20	
Sodium	230	7.0	mg/L		260			9.33	20	
Calcium	59.4	0.050	mg/L		65.4			9.59	20	
Iron	0.436	0.10	mg/L		0.444			2.01	20	
Boron	0.71	0.10	mg/L		0.75			5.91	20	
Barium	0.0231	0.10	mg/L		0.0214			7.97	20	
Copper	0.036	0.050	mg/L		0.027			28.3 *	20	Z-05
Silica (SiO2)	62	4.0	mg/L		67			7.71	20	
Strontium	0.71	0.10	mg/L		0.73			2.59	20	
Manganese	0.52	0.030	mg/L		0.55			6.16	20	

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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QUALITY CONTROL

Metals - As Received - Quality Control

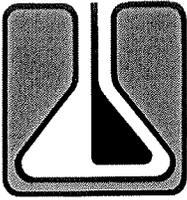
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch Z505396 - Metals - As Received

Matrix Spike (Z505396-MS1)	Source: 1505348-01			Prepared & Analyzed: 05/29/201						
Magnesium	8.92	0.050	mg/L	10.000	ND	89.2	70-130			
Potassium	8.0	0.50	mg/L	10.000	ND	80.5	70-130			
Sodium	44	7.0	mg/L	20.000	29	72.6	70-130			
Calcium	9.21	0.050	mg/L	10.000	ND	92.1	70-130			
Iron	1.11	0.10	mg/L	1.0000	0.0703	104	70-130			
Boron	0.94	0.10	mg/L	1.0000	0.018	92.5	70-130			
Barium	0.966	0.10	mg/L	1.0000	ND	96.6	70-130			
Copper	0.52	0.050	mg/L	0.50000	0.025	98.7	70-130			
Silica (SiO2)	39	4.0	mg/L	21.390	21	85.6	80-120			
Strontium	0.88	0.10	mg/L	1.0000	ND	87.6	80-120			

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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QUALITY CONTROL

Metals - As Received - Quality Control

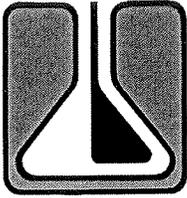
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch Z505396 - Metals - As Received

Matrix Spike Dup (Z505396-MSD1)	Source: 1505348-01			Prepared & Analyzed: 05/29/201						
Magnesium	8.95	0.050	mg/L	10.000	ND	89.5	70-130	0.308	20	
Potassium	8.1	0.50	mg/L	10.000	ND	81.3	70-130	1.05	20	
Sodium	44	7.0	mg/L	20.000	29	73.4	70-130	0.374	20	
Calcium	9.34	0.050	mg/L	10.000	ND	93.4	70-130	1.42	20	
Iron	1.12	0.10	mg/L	1.0000	0.0703	105	70-130	0.587	20	
Boron	0.95	0.10	mg/L	1.0000	0.018	93.6	70-130	1.14	20	
Barium	0.972	0.10	mg/L	1.0000	ND	97.2	70-130	0.607	20	
Copper	0.52	0.050	mg/L	0.50000	0.025	98.7	70-130	0.0611	20	
Silica (SiO2)	40	4.0	mg/L	21.390	21	86.5	80-120	0.534	20	
Strontium	0.88	0.10	mg/L	1.0000	ND	87.6	80-120	0.0231	20	

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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QUALITY CONTROL

Metals - As Received - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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QUALITY CONTROL

Hardness - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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Batch Z505396 - Metals - As Received

Blank (Z505396-BLK1)		Prepared & Analyzed: 05/29/201								
Hardness (as CaCO3)	ND	2.0	mg/L							
Duplicate (Z505396-DUP1)		Source: 1505287-02		Prepared & Analyzed: 05/29/201						
Hardness (as CaCO3)	130	2.0	mg/L		120			7.49	20	
Duplicate (Z505396-DUP2)		Source: 1505366-01		Prepared & Analyzed: 05/29/201						
Hardness (as CaCO3)	180	2.0	mg/L		200			9.28	20	

Batch Z506055 - Default Prep GC-Semi

Blank (Z506055-BLK1)		Prepared: 05/30/201 Analyzed: 06/02/201								
Diesel Range Hydrocarbons	ND	10.0	mg/kg							
Motor Oil Range Hydrocarbons	ND	25.0	mg/kg							
LCS (Z506055-BS1)		Prepared: 05/30/201 Analyzed: 06/02/201								
Diesel Range Hydrocarbons	107	10.0	mg/kg	200.00		53.5	8-134			
Motor Oil Range Hydrocarbons	107	25.0	mg/kg	400.00		26.9	25-118			
LCS Dup (Z506055-BSD1)		Prepared: 05/30/201 Analyzed: 06/02/201								
Diesel Range Hydrocarbons	107	10.0	mg/kg	200.00		53.6	8-134	0.289	20	
Motor Oil Range Hydrocarbons	113	25.0	mg/kg	400.00		28.3	25-118	5.06	20	

Batch Z506069 - EPA 5030B

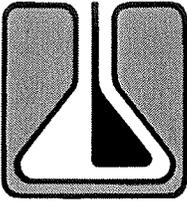
Blank (Z506069-BLK1)		Prepared & Analyzed: 06/03/201								
Gasoline Range Hydrocarbons	ND	0.050	mg/L							
Surrogate: a,a,a-Trifluorotoluene	0.00970		mg/L	0.010000		97.0	69-125			
LCS (Z506069-BS1)		Prepared & Analyzed: 06/03/201								
Gasoline Range Hydrocarbons	0.425	0.050	mg/L	0.50000		85.0	69-134			
Surrogate: a,a,a-Trifluorotoluene	0.00943		mg/L	0.010000		94.3	69-125			
LCS Dup (Z506069-BSD1)		Prepared & Analyzed: 06/03/201								
Gasoline Range Hydrocarbons	0.489	0.050	mg/L	0.50000		97.8	69-134	14.0	20	
Surrogate: a,a,a-Trifluorotoluene	0.0111		mg/L	0.010000		111	69-125			

Batch Z506093 - No Prep - Bench Chem

Blank (Z506093-BLK1)		Prepared & Analyzed: 05/28/201								
Total Alkalinity	ND	10	mg/L							
Bicarbonate (HCO3)	ND	10	mg/L							

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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QUALITY CONTROL

Metals - As Received - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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QUALITY CONTROL

Hardness - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch Z505396 - Metals - As Received

Blank (Z505396-BLK1)				Prepared & Analyzed: 05/29/201						
Hardness (as CaCO3)	ND	2.0	mg/L							
Duplicate (Z505396-DUP1)				Source: 1505287-02 Prepared & Analyzed: 05/29/201						
Hardness (as CaCO3)	130	2.0	mg/L		120			7.49	20	
Duplicate (Z505396-DUP2)				Source: 1505366-01 Prepared & Analyzed: 05/29/201						
Hardness (as CaCO3)	180	2.0	mg/L		200			9.28	20	

Batch Z506055 - Default Prep GC-Semi

Blank (Z506055-BLK1)				Prepared: 05/30/201 Analyzed: 06/02/201						
Diesel Range Hydrocarbons	ND	10.0	mg/kg							
Motor Oil Range Hydrocarbons	ND	25.0	mg/kg							
LCS (Z506055-BS1)				Prepared: 05/30/201 Analyzed: 06/02/201						
Diesel Range Hydrocarbons	107	10.0	mg/kg	200.00		53.5	8-134			
Motor Oil Range Hydrocarbons	107	25.0	mg/kg	400.00		26.9	25-118			
LCS Dup (Z506055-BSD1)				Prepared: 05/30/201 Analyzed: 06/02/201						
Diesel Range Hydrocarbons	107	10.0	mg/kg	200.00		53.6	8-134	0.289	20	
Motor Oil Range Hydrocarbons	113	25.0	mg/kg	400.00		28.3	25-118	5.06	20	

Batch Z506069 - EPA 5030B

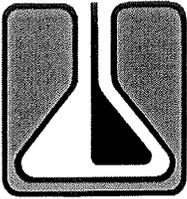
Blank (Z506069-BLK1)				Prepared & Analyzed: 06/03/201						
Gasoline Range Hydrocarbons	ND	0.050	mg/L							
Surrogate: a,a,a-Trifluorotoluene	0.00970		mg/L	0.010000		97.0	69-125			
LCS (Z506069-BS1)				Prepared & Analyzed: 06/03/201						
Gasoline Range Hydrocarbons	0.425	0.050	mg/L	0.50000		85.0	69-134			
Surrogate: a,a,a-Trifluorotoluene	0.00943		mg/L	0.010000		94.3	69-125			
LCS Dup (Z506069-BSD1)				Prepared & Analyzed: 06/03/201						
Gasoline Range Hydrocarbons	0.489	0.050	mg/L	0.50000		97.8	69-134	14.0	20	
Surrogate: a,a,a-Trifluorotoluene	0.0111		mg/L	0.010000		111	69-125			

Batch Z506093 - No Prep - Bench Chem

Blank (Z506093-BLK1)				Prepared & Analyzed: 05/28/201						
Total Alkalinity	ND	10	mg/L							
Bicarbonate (HCO3)	ND	10	mg/L							

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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QUALITY CONTROL

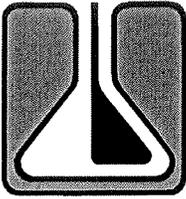
CAM, Toxicity (17 Metals) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
Batch Z505368 - EPA 7470A Prep										
Blank (Z505368-BLK1)				Prepared & Analyzed: 05/28/201						
Mercury	ND	0.0020	mg/L							
LCS (Z505368-BS1)				Prepared & Analyzed: 05/28/201						
Mercury	0.00509		mg/L	0.0050000	102		80-120			
LCS Dup (Z505368-BSD1)				Prepared & Analyzed: 05/28/201						
Mercury	0.00543		mg/L	0.0050000	109		80-120	6.50	20	
Duplicate (Z505368-DUP1)		Source: 1505346-01		Prepared & Analyzed: 05/28/201						
Mercury	ND	0.0020	mg/L		ND				20	
Matrix Spike (Z505368-MS1)		Source: 1505349-01		Prepared & Analyzed: 05/28/201						
Mercury	0.000620		mg/L	0.0050000-0.0000811	12.4 *		70-130			QM-07
Matrix Spike Dup (Z505368-MSD1)		Source: 1505349-01		Prepared & Analyzed: 05/28/201						
Mercury	0.000616		mg/L	0.0050000-0.0000811	12.3 *		70-130		30	QM-07
Reference (Z505368-SRM1)				Prepared & Analyzed: 05/28/201						
Mercury	0.00383		mg/L	0.0040000	95.8		90-110			
Batch Z505397 - EPA 3010A										
Blank (Z505397-BLK1)				Prepared: 05/28/201 Analyzed: 05/29/201						
Antimony	ND	0.20	mg/L							
Arsenic	ND	0.020	mg/L							
Barium	ND	0.10	mg/L							
Beryllium	ND	0.010	mg/L							
Cadmium	ND	0.010	mg/L							
Chromium	ND	0.050	mg/L							
Cobalt	ND	0.10	mg/L							
Copper	0.078	0.050	mg/L							B
Lead	ND	0.050	mg/L							
Molybdenum	ND	0.10	mg/L							
Nickel	ND	0.050	mg/L							
Selenium	ND	0.05	mg/L							
Silver	ND	0.020	mg/L							
Thallium	ND	0.50	mg/L							
Vanadium	ND	0.10	mg/L							
Zinc	0.056	0.050	mg/L							B
LCS (Z505397-BS1)				Prepared: 05/28/201 Analyzed: 05/29/201						
Antimony	0.42	0.20	mg/L	0.50000	83.4		80-120			
Arsenic	0.364	0.020	mg/L	0.50000	72.7 *		80-120			Z-04
Barium	0.45	0.10	mg/L	0.50000	89.2		80-120			
Beryllium	0.413	0.010	mg/L	0.50000	82.6		80-120			
Cadmium	0.435	0.010	mg/L	0.50000	87.0		80-120			
Chromium	0.464	0.050	mg/L	0.50000	92.8		80-120			

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QUALITY CONTROL

CAM, Toxicity (17 Metals) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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Batch Z505397 - EPA 3010A

LCS (Z505397-BS1)

Prepared: 05/28/201 Analyzed: 05/29/201

Cobalt	0.43	0.10	mg/L	0.50000		85.4	80-120			
Copper	0.487	0.050	mg/L	0.50000		97.5	80-120			
Lead	0.39	0.050	mg/L	0.50000		77.2 *	80-120			Z-04
Molybdenum	0.49	0.10	mg/L	0.50000		98.1	80-120			
Nickel	0.488	0.050	mg/L	0.50000		97.5	80-120			
Selenium	0.253	0.05	mg/L	0.50000		50.6 *	80-120			Z-04
Silver	0.464	0.020	mg/L	0.50000		92.9	80-120			
Thallium	0.38	0.50	mg/L	0.50000		75.5 *	80-120			Z-04
Vanadium	0.46	0.10	mg/L	0.50000		92.1	80-120			
Zinc	0.417	0.050	mg/L	0.50000		83.3	80-120			

LCS Dup (Z505397-BSD1)

Prepared: 05/28/201 Analyzed: 05/29/201

Antimony	0.44	0.20	mg/L	0.50000		87.9	80-120	5.20	20	
Arsenic	0.393	0.020	mg/L	0.50000		78.6 *	80-120	7.77	20	Z-04
Barium	0.47	0.10	mg/L	0.50000		93.1	80-120	4.31	20	
Beryllium	0.438	0.010	mg/L	0.50000		87.5	80-120	5.75	20	
Cadmium	0.454	0.010	mg/L	0.50000		90.8	80-120	4.32	20	
Chromium	0.476	0.050	mg/L	0.50000		95.2	80-120	2.62	20	
Cobalt	0.45	0.10	mg/L	0.50000		89.1	80-120	4.18	20	
Copper	0.493	0.050	mg/L	0.50000		98.5	80-120	1.08	20	
Lead	0.43	0.050	mg/L	0.50000		85.1	80-120	9.76	20	
Molybdenum	0.52	0.10	mg/L	0.50000		103	80-120	4.94	20	
Nickel	0.496	0.050	mg/L	0.50000		99.2	80-120	1.72	20	
Selenium	0.270	0.05	mg/L	0.50000		54.0 *	80-120	6.50	20	Z-04
Silver	0.489	0.020	mg/L	0.50000		97.7	80-120	5.08	20	
Thallium	0.36	0.50	mg/L	0.50000		72.0 *	80-120	4.69	20	Z-04
Vanadium	0.47	0.10	mg/L	0.50000		94.7	80-120	2.83	20	
Zinc	0.481	0.050	mg/L	0.50000		96.2	80-120	14.4	20	

Duplicate (Z505397-DUP1)

Source: 1505346-01

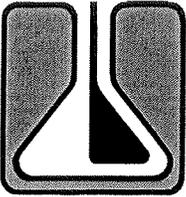
Prepared: 05/28/201 Analyzed: 05/29/201

Antimony	ND	0.20	mg/L		0.032				20	
Arsenic	ND	0.020	mg/L		ND				20	
Barium	0.18	0.10	mg/L		0.17			6.39	20	
Beryllium	ND	0.010	mg/L		ND				20	
Cadmium	ND	0.010	mg/L		ND				20	
Chromium	ND	0.050	mg/L		ND				20	
Cobalt	ND	0.10	mg/L		ND				20	
Copper	0.0411	0.050	mg/L		0.0517			22.8 *	20	Z-05
Lead	ND	0.050	mg/L		ND				20	
Molybdenum	0.015	0.10	mg/L		0.014			12.3	20	
Nickel	ND	0.050	mg/L		ND				20	
Selenium	ND	0.05	mg/L		ND				20	
Silver	ND	0.020	mg/L		ND				20	
Thallium	ND	0.50	mg/L		ND				20	
Vanadium	ND	0.10	mg/L		ND				20	

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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QUALITY CONTROL

CAM, Toxicity (17 Metals) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch Z505397 - EPA 3010A

Duplicate (Z505397-DUP1)

Source: 1505346-01

Prepared: 05/28/201 Analyzed: 05/29/201

Zinc	0.283	0.050	mg/L		ND				20	
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Reference (Z505397-SRM1)

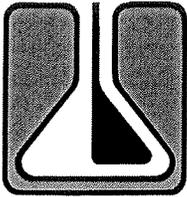
Prepared & Analyzed: 05/29/201

Antimony	1.0		mg/L	1.0000		100	90-110			
Arsenic	1.13		mg/L	1.0000		113 *	90-110			Z-06
Barium	1.0		mg/L	1.0000		104	90-110			
Beryllium	1.04		mg/L	1.0000		104	90-110			
Cadmium	1.12		mg/L	1.0000		112 *	90-110			Z-06
Chromium	1.03		mg/L	1.0000		103	90-110			
Cobalt	1.0		mg/L	1.0000		103	90-110			
Copper	0.991		mg/L	1.0000		99.1	90-110			
Lead	1.0		mg/L	1.0000		103	90-110			
Molybdenum	1.0		mg/L	1.0000		104	90-110			
Nickel	1.00		mg/L	1.0000		100	90-110			
Selenium	0.940		mg/L	1.0000		94.0	90-110			
Silver	0.140		mg/L	0.12500		112 *	90-110			Z-06
Thallium	1.0		mg/L	1.0000		100	90-110			
Vanadium	1.0		mg/L	1.0000		104	90-110			
Zinc	1.14		mg/L	1.0000		114 *	90-110			Z-06

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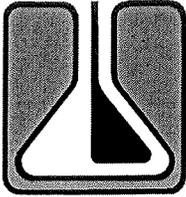
General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
Batch Z505382 - No Prep - Bench Chem										
Blank (Z505382-BLK1) Prepared & Analyzed: 05/28/201										
Electrical Conductivity	ND	0.010	mmhos/cm							
Duplicate (Z505382-DUP1) Source: 1505349-01 Prepared & Analyzed: 05/28/201										
Electrical Conductivity	67	0.010	mmhos/cm		68			0.886	15	
Reference (Z505382-SRM1) Prepared & Analyzed: 05/28/201										
Electrical Conductivity	1.4		mmhos/cm	1.4120		101	0-200			
Reference (Z505382-SRM2) Prepared & Analyzed: 05/28/201										
Electrical Conductivity	13		mmhos/cm	12.900		99.9	0-200			
Batch Z506083 - No Prep - Bench Chem										
Blank (Z506083-BLK1) Prepared & Analyzed: 06/01/201										
Total Dissolved Solids	ND	10	mg/L							
Duplicate (Z506083-DUP1) Source: 1505349-01 Prepared & Analyzed: 06/01/201										
Total Dissolved Solids	50000	10	mg/L		50000			0.00	5	
Duplicate (Z506083-DUP2) Source: 1505327-01 Prepared & Analyzed: 06/01/201										
Total Dissolved Solids	2800	10	mg/L		2900			6.34 *	5	QR-02
Duplicate (Z506083-DUP3) Source: 1505372-08 Prepared & Analyzed: 06/01/201										
Total Dissolved Solids	11000	10	mg/L		11000			0.188	5	
Batch Z506093 - No Prep - Bench Chem										
Blank (Z506093-BLK1) Prepared & Analyzed: 05/28/201										
pH	6.74		pH Units							
Duplicate (Z506093-DUP1) Source: 1505349-01 Prepared & Analyzed: 05/28/201										
pH	6.88		pH Units		6.96			1.16	5	
Reference (Z506093-SRM2) Prepared & Analyzed: 05/28/201										
pH	9.12		pH Units	9.1200		100	97.5-102.2			
Batch Z506100 - No Prep - Instrument Chem										
Blank (Z506100-BLK1) Prepared & Analyzed: 06/04/201										
Fluoride	ND	0.10	mg/L							
Nitrate as NO3	ND	2.00	mg/L							
Bromide	ND	0.10	mg/L							
Chloride	ND	2.0	mg/L							
Sulfate as SO4	ND	0.50	mg/L							

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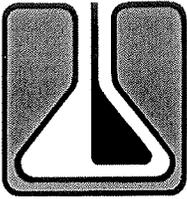
General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
Batch Z506100 - No Prep - Instrument Chem										
LCS (Z506100-BS1)										
Prepared & Analyzed: 06/04/201										
Fluoride	2.1		mg/L	2.0000		105	90-110			
Nitrate as NO3	9.5		mg/L	10.000		95.4	90-110			
Bromide	9.4		mg/L	10.000		94.5	90-110			
Chloride	2.8		mg/L	3.0000		92.7	90-110			
Sulfate as SO4	14		mg/L	15.000		96.1	90-110			
LCS Dup (Z506100-BSD1)										
Prepared & Analyzed: 06/04/201										
Fluoride	2.1		mg/L	2.0000		106	90-110	1.01	10	
Nitrate as NO3	9.6		mg/L	10.000		96.0	90-110	0.556	10	
Bromide	9.5		mg/L	10.000		95.1	90-110	0.719	10	
Chloride	2.8		mg/L	3.0000		93.9	90-110	1.24	20	
Sulfate as SO4	15		mg/L	15.000		96.8	90-110	0.708	10	
Reference (Z506100-SRM1)										
Prepared & Analyzed: 06/04/201										
Fluoride	4.2		mg/L	4.0000		105	90-110			
Nitrate as NO3	20		mg/L	20.000		98.8	90-110			
Bromide	19.6		mg/L	20.000		98.1	90-110			
Chloride	5.9		mg/L	6.0000		97.7	90-110			
Sulfate as SO4	30		mg/L	30.000		98.6	90-110			
Reference (Z506100-SRM2)										
Prepared & Analyzed: 06/04/201										
Fluoride	5.3		mg/L	5.0000		105	90-110			
Nitrate as NO3	25		mg/L	25.000		101	90-110			
Bromide	25.1		mg/L	25.000		101	90-110			
Chloride	25		mg/L	25.000		100	90-110			
Sulfate as SO4	25		mg/L	25.000		102	90-110			

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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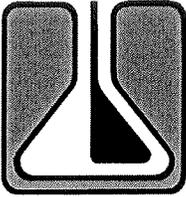
Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch Z506057 - MEPR-L										
Blank (Z506057-BLK1) Prepared & Analyzed: 05/29/201										
Lithium	ND	0.10	mg/L							
LCS (Z506057-BS1) Prepared & Analyzed: 05/29/201										
Lithium	0.989	0.10	mg/L	1.0000		98.9	80-120			

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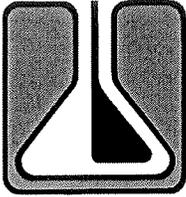
Semivolatiles Organic Compounds - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
Batch Z505412 - EPA 3510C_MS										
Blank (Z505412-BLK1) Prepared: 05/28/201 Analyzed: 05/29/201										
Indeno(1,2,3-cd)pyrene	ND	10.0	ug/L							
Naphthalene	ND	10.0	ug/L							
Acenaphthylene	ND	10.0	ug/L							
Acenaphthene	ND	10.0	ug/L							
Fluorene	ND	10.0	ug/L							
Phenanthrene	ND	10.0	ug/L							
Anthracene	ND	10.0	ug/L							
Fluoranthene	ND	10.0	ug/L							
Pyrene	ND	10.0	ug/L							
Benzo (a) anthracene	ND	10.0	ug/L							
Chrysene	ND	10.0	ug/L							
Benzo (b) fluoranthene	ND	10.0	ug/L							
Benzo (k) fluoranthene	ND	10.0	ug/L							
Benzo (a) pyrene	ND	10.0	ug/L							
Dibenz (a,h) anthracene	ND	10.0	ug/L							
Benzo (g,h,i) perylene	ND	10.0	ug/L							
Surrogate: Nitrobenzene-d5	50.9		ug/L	100.00		50.9	0-95			
Surrogate: 2-Fluorobiphenyl	56.7		ug/L	100.00		56.7	0-92			
Surrogate: Terphenyl-d14	41.6		ug/L	100.00		41.6	0-100			
LCS (Z505412-BS1) Prepared: 05/28/201 Analyzed: 05/29/201										
1,4-Dichlorobenzene	46.1		ug/L	100.00		46.1	0-90			
N-Nitrosodi-n-propylamine	56.0		ug/L	100.00		56.0	10-125			
1,2,4-Trichlorobenzene	51.0		ug/L	100.00		51.0	0-97			
2,4-Dinitrotoluene	42.8		ug/L	100.00		42.8	14-109			
Acenaphthene	58.6	10.0	ug/L	100.00		58.6	4-107			
Pyrene	81.6	10.0	ug/L	100.00		81.6	10-142			
Surrogate: Nitrobenzene-d5	51.2		ug/L	100.00		51.2	0-95			
Surrogate: 2-Fluorobiphenyl	54.6		ug/L	100.00		54.6	0-92			
Surrogate: Terphenyl-d14	59.1		ug/L	100.00		59.1	0-100			
LCS Dup (Z505412-BSD1) Prepared: 05/28/201 Analyzed: 05/29/201										
1,4-Dichlorobenzene	52.8		ug/L	100.00		52.8	0-90	13.6	20	
N-Nitrosodi-n-propylamine	64.8		ug/L	100.00		64.8	10-125	14.6	20	
1,2,4-Trichlorobenzene	59.1		ug/L	100.00		59.1	0-97	14.7	20	
2,4-Dinitrotoluene	50.2		ug/L	100.00		50.2	14-109	16.0	20	
Acenaphthene	62.8	10.0	ug/L	100.00		62.8	4-107	7.03	20	
Pyrene	75.9	10.0	ug/L	100.00		75.9	10-142	7.19	20	
Surrogate: Nitrobenzene-d5	62.4		ug/L	100.00		62.4	0-95			
Surrogate: 2-Fluorobiphenyl	63.7		ug/L	100.00		63.7	0-92			
Surrogate: Terphenyl-d14	54.6		ug/L	100.00		54.6	0-100			

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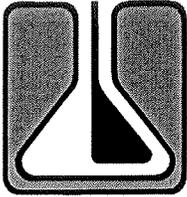
QUALITY CONTROL

Volatile Organic Compounds - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch Z506086 - EPA 5030B										
Blank (Z506086-BLK1) Prepared & Analyzed: 06/03/201										
m,p-Xylene	ND	5.00	ug/L							
Benzene	ND	5.00	ug/L							
Xylenes, total	0.00		ug/L							
Methyl tert-Butyl Ether	ND	5.00	ug/L							
Ethylbenzene	ND	5.00	ug/L							
Toluene	ND	5.00	ug/L							
o-Xylene	ND	5.00	ug/L							
Surrogate: 1,2-Dichloroethane-d4	42.4		ug/L	50.000		84.8 *	89-165			S-GC
Surrogate: Toluene-d8	43.0		ug/L	50.000		86.0	65-124			
Surrogate: 4-Bromofluorobenzene	54.0		ug/L	50.000		108	94-114			
LCS (Z506086-BS1) Prepared & Analyzed: 06/03/201										
Benzene	52.4	5.00	ug/L	50.000		105	78-150			
1,1-Dichloroethene	52.1		ug/L	50.000		104	67-137			
Chlorobenzene	43.9		ug/L	50.000		87.9	79-138			
Trichloroethene	53.7		ug/L	50.000		107	57-136			
Toluene	48.6	5.00	ug/L	50.000		97.3	47-150			
Surrogate: 1,2-Dichloroethane-d4	51.5		ug/L	50.000		103	89-165			
Surrogate: Toluene-d8	57.1		ug/L	50.000		114	65-124			
Surrogate: 4-Bromofluorobenzene	42.3		ug/L	50.000		84.5 *	94-114			S-GC
LCS Dup (Z506086-BSD1) Prepared & Analyzed: 06/03/201										
Benzene	55.8	5.00	ug/L	50.000		112	78-150	6.25	20	
1,1-Dichloroethene	53.1		ug/L	50.000		106	67-137	1.98	20	
Chlorobenzene	47.1		ug/L	50.000		94.2	79-138	6.94	20	
Trichloroethene	57.5		ug/L	50.000		115	57-136	6.96	20	
Toluene	51.4	5.00	ug/L	50.000		103	47-150	5.62	20	
Surrogate: 1,2-Dichloroethane-d4	51.3		ug/L	50.000		103	89-165			
Surrogate: Toluene-d8	49.6		ug/L	50.000		99.1	65-124			
Surrogate: 4-Bromofluorobenzene	55.2		ug/L	50.000		110	94-114			

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FLAG/QUALIFIER SUMMARY

Z-06	Quality Control Reference Sample is outside laboratory limits.
Z-05	Duplicate Relative Percent Difference (RPD) is outside laboratory limits.
Z-04	LCS/LCSD is outside laboratory limits.
S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
B	Analyte is found in the associated blank as well as in the sample (CLP B-flag).

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June 23, 2015
Zalco Laboratories, Inc.

Lab ID : SP 1506024
Customer : 2-249

Radio QC

Ra - 05	06/20/2015:209175 All analysis quality controls are within established criteria.
	06/12/2015:206448 All preparation quality controls are within established criteria.

Certification:: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature.

KD:DMB

Approved By **Kelly A. Dunnahoo, B.S.**



Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2015-06-23

June 23, 2015
 Zalco Laboratories, Inc.

Lab ID : SP 1506024
 Customer : 2-249

Quality Control - Radio

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Radio								
Alpha	900.0	06/08/15:208565caa	CCV CCB	cpm cpm	8928	40.6 % 0.100	37 - 45 0.18	
Gross Alpha	900.0	06/05/15:206508CAA (SP 1506000-001)	Blank LCS MS MSD MSRPD	pCi/L pCi/L pCi/L pCi/L pCi/L	180.6 180.6 180.6 180.6	0.17 97.5 % 66.1 % 101 % 42.2%	3 75-125 60-140 60-140 ≤30	435
Alpha	903.0	06/09/15:208571caa	CCV CCB	cpm cpm	8927	40.8 % 0.100	37 - 45 0.19	
Total Alpha Radium (226)	903.0	06/03/15:206450emv	RgBlk LCS BS BSD BSRPD	pCi/L pCi/L pCi/L pCi/L pCi/L	21.60 21.60 21.60 21.60	0.01 68.9 % 65.0 % 63.7 % 2.0%	2 52-107 43-111 43-111 ≤35.5	
Alpha	908.0	06/11/15:208795caa	CCV CCB	cpm cpm	8926	42.9 % 0.0600	41 - 50 0.12	
Uranium	908.0	06/11/15:206768caa	RgBlk LRS BS BSD BSRPD	pCi/L pCi/L pCi/L pCi/L pCi/L	20.97 20.97 20.97 20.97	0.01 68.1 % 97.3 % 90.6 % 7.1%	1 54-105 75-125 75-125 ≤20	
Beta	Ra - 05	06/20/15:209175caa	CCV CCB	cpm cpm	9320	94.7 % 0.4000	85 - 104 0.49	
Ra 228	Ra - 05	06/12/15:206448emv	RgBlk LRS BS BSD BSRPD	pCi/L pCi/L pCi/L pCi/L pCi/L	91.21 91.21 91.21 91.21	0.21 44.1 % 109 % 107 % 2.2%	3 27-59 75-125 75-125 ≤25	
Definition								
CCV : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.								
CCB : Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.								
Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.								
RgBlk : Method Reagent Blank - Prepared to correct for any reagent contributions to sample result.								
LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.								
LRS : Laboratory Recovery Standard - Prepared to establish the batch recovery factor used in result calculations.								
MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.								
MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.								
BS : Blank Spikes - A blank is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.								
BSD : Blank Spike Duplicate of BS/BSD pair - A blank duplicate is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.								
MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.								
BSRPD : BS/BSD Relative Percent Difference (RPD) - The BS relative percent difference is an indication of precision for the preparation and analysis.								
DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.								
Explanation								
435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.								

