EMA Log #: 13I0812

09 October 2013

San Mateo Irrigated Lands Group Attn: John Adriany 3022 Elliott St.

San Diego, CA 92106 92106

Project Name: DLR-13

Enclosed are the results of analyses for samples received by the laboratory on 09/27/13 14:10. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that this data is in compliance both technically and for completeness.

Dan Verdon Laboratory Director

CA ELAP Certification #: 2564

Project Name: DLR-13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DLR-13	13I0812-01	Water	09/27/13 11:42	09/27/13 14:10

NOTE: The TOC/DOC and Chlorophyll A analyses were performed by a sub-contract laboratory, results to follow in a separate report.



Project Name: DLR-13

Conventional Chemistry Parameters by Standard/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DLR-13 (13I0812-01) Water	Sampled: 09/27/13 11:	42 Receive	d: 09/27/13	14:10					
Ammonia as N	ND	0.10	mg/l	1	3100215	10/01/13	10/01/13	SM4500 NH3 B,C	
Chloride	310	0.05	"	"	3100748	10/07/13	10/07/13	SM4500 Cl C	
Nitrate as N	3.89	0.25	"	5	3100136	10/02/13	10/02/13	SM4500 NO3 E	W-02
Nitrite as N	ND	0.05	"	1	3093061	09/27/13	09/27/13	SM4500 NO2 B	
Total Kjeldahl Nitrogen	ND	0.5	"	"	3100746	10/07/13	10/07/13	SM4500 N C	
Orthophosphate as P	0.09	0.05	"	"	3093067	09/28/13	09/28/13	SM4500 P E	
Phosphorus, Total	0.12	0.05	"	"	3093058	09/30/13	09/30/13	SM4500 PB, E	
Total Dissolved Solids	1060	20.0	"	"	3100352	10/03/13	10/07/13	SM2540 C	
Total Suspended Solids	ND	20.0	"	"	3100350	10/03/13	10/07/13	SM2540 D	
Sulfate as SO4	424	125	"	25	3100832	10/08/13	10/08/13	SM4500 SO4 E	



Project Name: DLR-13

Conventional Chemistry Parameters by Standard/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3093058										
Blank (3093058-BLK1)				Prepared 6	& Analyze	ed: 09/30/	13			
Phosphorus, Total	ND	0.05	mg/l							
LCS (3093058-BS1)				Prepared 6	& Analyze	ed: 09/30/	13			
Phosphorus, Total	0.57	0.05	mg/l	0.500		114	80-120			
LCS Dup (3093058-BSD1)				Prepared 6	& Analyze	ed: 09/30/	13			
Phosphorus, Total	0.56	0.05	mg/l	0.500	-	112	80-120	2	20	
Duplicate (3093058-DUP1)		Source: 13I06	79-07	Prepared 6	& Analyze	ed: 09/30/	13			
Phosphorus, Total	ND	0.05	mg/l	•	ND				20	
Matrix Spike (3093058-MS1)		Source: 13I06	79-07	Prepared 6	& Analyze	ed: 09/30/	13			
Phosphorus, Total	0.57	0.05	mg/l	0.500	ND	113	80-120			
Matrix Spike Dup (3093058-MSD1)		Source: 13I06	79-07	Prepared 6	& Analyze	ed: 09/30/	13			
Phosphorus, Total	0.57	0.05	mg/l	0.500	ND	115	80-120	1	20	
Batch 3093061										
Blank (3093061-BLK1)				Prepared a	& Analyze	ed: 09/26/	13			
Nitrite as N	ND	0.05	mg/l	•						
LCS (3093061-BS1)				Prepared 6	& Analyze	ed: 09/26/	13			
Nitrite as N	0.10	0.05	mg/l	0.100		97	80-120			
LCS Dup (3093061-BSD1)				Prepared 6	& Analyze	ed: 09/26/	13			
Nitrite as N	0.10	0.05	mg/l	0.100		96	80-120	1	20	



Project Name: DLR-13

Conventional Chemistry Parameters by Standard/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3093061										
Duplicate (3093061-DUP1)		Source: 13I07	69-01	Prepared of	& Analyze	ed: 09/26/	13			
Nitrite as N	ND	0.05	mg/l		ND				20	
Duplicate (3093061-DUP2)		Source: 13I08	306-01	Prepared of	& Analyze	ed: 09/27/	13			
Nitrite as N	0.03	0.05	mg/l		0.03			9	20	
Matrix Spike (3093061-MS1)		Source: 13I07	69-01	Prepared of	& Analyze	ed: 09/26/	13			
Nitrite as N	0.09	0.05	mg/l	0.100	ND	91	80-120			
Matrix Spike (3093061-MS2)		Source: 13I08	306-01	Prepared of	& Analyze	ed: 09/27/	13			
Nitrite as N	0.12	0.05	mg/l	0.100	0.03	88	80-120			
Matrix Spike Dup (3093061-MSD1)		Source: 13I07	69-01	Prepared of	& Analyze	ed: 09/26/	13			
Nitrite as N	0.09	0.05	mg/l	0.100	ND	93	80-120	2	20	
Matrix Spike Dup (3093061-MSD2)		Source: 13I08	306-01	Prepared of	& Analyze	ed: 09/27/	13			
Nitrite as N	0.13	0.05	mg/l	0.100	0.03	94	80-120	5	20	
Batch 3093067										
Blank (3093067-BLK1)				Prepared of	& Analyze	ed: 09/27/	13			
Orthophosphate as P	ND	0.05	mg/l	•						
LCS (3093067-BS1)				Prepared of	& Analyze	ed: 09/27/	13			
Orthophosphate as P	0.49	0.05	mg/l	0.500		98	80-120			
LCS Dup (3093067-BSD1)				Prepared of	& Analyze	ed: 09/27/	13			
Orthophosphate as P	0.47	0.05	mg/l	0.500	**	94	80-120	4	20	



Project Name: DLR-13

Conventional Chemistry Parameters by Standard/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3093067										
Duplicate (3093067-DUP1)		Source: 13I08	06-01	Prepared 6	& Analyze	ed: 09/27/	13			
Orthophosphate as P	0.13	0.05	mg/l		0.14			4	20	
Matrix Spike (3093067-MS1)		Source: 13I08	06-01	Prepared 6	& Analyze	ed: 09/27/	13			
Orthophosphate as P	0.64	0.05	mg/l	0.500	0.14	100	80-120			
Matrix Spike Dup (3093067-MSD1)		Source: 13I08	06-01	Prepared 6	& Analyze	ed: 09/27/	13			
Orthophosphate as P	0.62	0.05	mg/l	0.500	0.14	96	80-120	4	20	
Batch 3100136										
Blank (3100136-BLK1)				Prepared 6	& Analyze	ed: 10/01/	13			
Nitrate as N	ND	0.05	mg/l							
LCS (3100136-BS1)				Prepared 6	& Analyze	ed: 10/01/	13			
Nitrate as N	0.56	0.05	mg/l	0.500		113	80-120			
LCS Dup (3100136-BSD1)				Prepared 6	& Analyze	ed: 10/01/	13			
Nitrate as N	0.55	0.05	mg/l	0.500	-	110	80-120	3	20	
Duplicate (3100136-DUP1)		Source: 13I08	06-01	Prepared a	& Analyze	ed: 10/01/	13			
Nitrate as N	21.0	2.50	mg/l		21.6			3	20	
Matrix Spike (3100136-MS1)		Source: 13I08	06-01	Prepared of	& Analyze	ed: 10/01/	13			
Nitrate as N	46.3	2.50	mg/l	25.0	21.6	99	80-120			
Matrix Spike Dup (3100136-MSD1)		Source: 13I08	06-01	Prepared 6	& Analyze	ed: 10/01/	13			
Nitrate as N	46.9	2.50	mg/l	25.0	21.6	101	80-120	1	20	



Project Name: DLR-13

Conventional Chemistry Parameters by Standard/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3100215										
Blank (3100215-BLK1)				Prepared of	& Analyze	ed: 10/01/	13			
Ammonia as N	ND	0.10	mg/l							
LCS (3100215-BS1)				Prepared of	& Analyze	ed: 10/01/	13			
Ammonia as N	0.93	0.10	mg/l	1.00		93	80-120			
LCS Dup (3100215-BSD1)				Prepared of	& Analyze	ed: 10/01/	13			
Ammonia as N	0.92	0.10	mg/l	1.00	-	92	80-120	0.9	20	
Duplicate (3100215-DUP1)		Source: 13I06	79-07	Prepared of	& Analyze	ed: 10/01/	13			
Ammonia as N	ND	0.10	mg/l	•	ND				20	
Matrix Spike (3100215-MS1)		Source: 13I06	79-07	Prepared of	& Analyze	ed: 10/01/	13			
Ammonia as N	0.91	0.10	mg/l	1.00	ND	91	80-120			
Matrix Spike Dup (3100215-MSD1)		Source: 13I06	79-07	Prepared of	& Analyze	ed: 10/01/	13			
Ammonia as N	0.90	0.10	mg/l	1.00	ND	90	80-120	1	20	
Batch 3100350										
Blank (3100350-BLK1)				Prepared:	10/03/13	Analyzed	1: 10/07/1	3		
Total Suspended Solids	ND	20.0	mg/l	•						
Duplicate (3100350-DUP1)		Source: 13J00	01-01	Prepared:	10/03/13	Analyzed	l: 10/07/1	3		
Total Suspended Solids	ND	20.0	mg/l		ND	•			20	
Reference (3100350-SRM1)				Prepared:	10/03/13	Analyzed	l: 10/07/1	3		
Total Suspended Solids	98.0	20.0	mg/l	100		98	75.3-110			



Project Name: DLR-13

Conventional Chemistry Parameters by Standard/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3100352										
Blank (3100352-BLK1)				Prepared:	10/03/13	Analyzed	d: 10/07/1	3		
Total Dissolved Solids	ND	20.0	mg/l							
Duplicate (3100352-DUP1)		Source: 13J00	01-01	Prepared:	10/03/13	Analyzed	d: 10/07/1	3		
Total Dissolved Solids	ND	20.0	mg/l		ND				20	
Reference (3100352-SRM1)				Prepared:	10/03/13	Analyzed	d: 10/07/1	3		
Total Dissolved Solids	270	20.0	mg/l	269		100	4.35-125.2	2		
Batch 3100746										
Blank (3100746-BLK1)				Prepared of	& Analyz	ed: 10/07/	13			
Total Kjeldahl Nitrogen	ND	0.5	mg/l							
LCS (3100746-BS1)				Prepared of	& Analyz	ed: 10/07/	13			
Total Kjeldahl Nitrogen	4.3	0.5	mg/l	5.00	-	86	80-120			
LCS Dup (3100746-BSD1)				Prepared of	& Analyz	ed: 10/07/	13			
Total Kjeldahl Nitrogen	4.3	0.5	mg/l	5.00		85	80-120	2	20	
Duplicate (3100746-DUP1)		Source: 13I08	12-01	Prepared of	& Analyz	ed: 10/07/	13			
Total Kjeldahl Nitrogen	ND	0.5	mg/l	•	ND				20	
Matrix Spike (3100746-MS1)		Source: 13I08	12-01	Prepared of	& Analyz	ed: 10/07/	13			
Total Kjeldahl Nitrogen	4.4	0.5	mg/l	5.00	ND	88	80-120			
Matrix Spike Dup (3100746-MSD1)		Source: 13I08	12-01	Prepared of	& Analyz	ed: 10/07/	13			
Total Kjeldahl Nitrogen	4.3	0.5	mg/l	5.00	ND	86	80-120	2	20	



Project Name: DLR-13

Conventional Chemistry Parameters by Standard/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3100748										
Blank (3100748-BLK1)				Prepared 6	& Analyze	ed: 10/07/	13			
Chloride	ND	0.05	mg/l							
LCS (3100748-BS1)				Prepared 6	& Analyze	ed: 10/07/	13			
Chloride	200	0.05	mg/l	200		100	80-120			
LCS Dup (3100748-BSD1)				Prepared 6	& Analyze	ed: 10/07/	13			
Chloride	210	0.05	mg/l	200		105	80-120	5	20	
Duplicate (3100748-DUP1)		Source: 13J00	38-01	Prepared 6	& Analyze	ed: 10/07/	13			
Chloride	200	0.05	mg/l		210			5	20	
Matrix Spike (3100748-MS1)		Source: 13J00	38-01	Prepared 6	& Analyze	ed: 10/07/	13			
Chloride	400	0.05	mg/l	200	210	95	80-120			
Matrix Spike Dup (3100748-MSD1)		Source: 13J00	38-01	Prepared 6	& Analyze	ed: 10/07/	13			
Chloride	400	0.05	mg/l	200	210	95	80-120	0	20	
Batch 3100832										
Blank (3100832-BLK1)				Prepared 6	& Analyze	ed: 10/08/	13			
Sulfate as SO4	ND	5.0	mg/l	•						
LCS (3100832-BS1)				Prepared of	& Analyze	ed: 10/08/	13			
Sulfate as SO4	10.3	5.0	mg/l	10.0		103	80-120			
LCS Dup (3100832-BSD1)				Prepared 6	& Analyze	ed: 10/08/	13			
Sulfate as SO4	10.9	5.0	mg/l	10.0		109	80-120	5	20	



Project Name: DLR-13

Conventional Chemistry Parameters by Standard/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
,						.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Batch 3100832										
Duplicate (3100832-DUP1)		Source: 13J00	34-03	Prepared a	& Analyze	ed: 10/08/1	13			
Sulfate as SO4	245	50.0	mg/l		248			1	20	
Matrix Spike (3100832-MS1)		Source: 13J00	34-03	Prepared &	& Analyze	ed: 10/08/1	13			
Sulfate as SO4	354	50.0	mg/l	100	248	106	80-120			
Matrix Spike Dup (3100832-MSD1)		Source: 13J00	34-03	Prepared &	& Analyze	ed: 10/08/1	13			
Sulfate as SO4	357	50.0	mg/l	100	248	109	80-120	1	20	



Project Name: DLR-13

Notes and Definitions

W-02 The sample for nitrate analysis was preserved with H2SO4 after the nitrite portion of the analysis was completed to extend the

holding time for the sample. Nitrate results are corrected for the nitrite contribution per the method.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



CHAIN-OF-CUSTODY RECORD

-EnviroMatrix (End.) Analytical, Inc. ---

4340 Viewridge Ave., Ste. A - San Diego, CA 92123 - Phone (858) 560-7717 - Fax (858) 560-7763

4340 Viewridge Ave., Ste. A - San Diego, CA 92123 - Phone (858) 560-7717 - Fax (858) 560-7763	Requested Analysis	Okitrate Mitrite TTLC STLC ST										DATE/TIME RECEIVED BY	Signature D	Tiering David Range	1410 Company: France	Signature	Print	Company:	Signature	Print	Company:	11°C
4340 Viewridge Ave., Ste. A - San Diego, C.	1	Oil & Grease 413.1 413.2 1664 8015B (TPH) Gas Diesel Ext 624/8260 (VOC) Full BTXE MTBE Oxy Nap 608 / 8081 (Organochlorine Pesticides) 8141 (Organophosphorus Pesticides) 7B7 (Organophosphorus Pesticides)										RELINOUISHED BY	Signature	Print Apple	Company: (hera Merizics	Signature	Print	Company:	Signature	Print	Company:	Tho
	PRICATED LANK GIP	100 CA 92 (4 PD#; Po#; Po#; Po#; Po#; Po#; Po#; Po#;	127 11.9 W 2/PM	1919	9							Groundwater, SW = Storm Water	olid, T = Tissue, O = Oil, L = Liquid	□ FedEx □ USPS □ Client Drop Off □ Other	□ 3 day □ 4 day □ 5 day ÀSTD (7 day)	□ Geotracker/EDF □ Hard Copy □ EDT	lient: P/U or Delivery 🏻 Archive	Sample Integrity	Containers Properly Preseved: Yes No N/A	Temp @ Receipt:	Sampled By: Client EMA Autosampler) consult c
EMAIOC#: 127-48/	MATER		1 762 - 13	2 2	3	4	5	9	7	8	6	10 Matrix Codes: A = Air, DW = Drinking Water, GW = Groundwater, SW = Storm Water	WW = Wastewater, S = Soil, SED = Sediment, SD = Solid, T = Tissue, O = Oil, L = Liquid	Shipped By: a Courier a UPS a FedEx a USPS	'Turn-Around-Time: a Same Day a 24 hr a 48 hr a 3 day a 4 day a 5 day AST	'Reporting Requirements: DFax (PDF DExcel DGeotracker/EDF DHard Copy	'Sample Disposal: a By Laboratory a 2Return to Client: P/U or Delivery a Archive	San	Correct Containers: Yes No N/A	Custody Seals Intact: Yes No N/A	COC/Labels Agree: Yes No N/A	Project/Sample Comments:

^{&#}x27;Additional costs may apply, consult a project manager for details.

²EMA reserves the right to return any samples that do not match our waste profile.

NOTE: By relinquishing samples to EMA, Inc., client agrees to pay for the services requested on this COC form and any additional analyses performed on this project. Payment for services is due within 30 days from date of invoice. Samples will be disposed of 7 days after report has been finalized unless otherwise noted. All work is subject to EMA's terms and conditions.

EnviroMatrix



Analytical, Inc.

09 October 2013

San Mateo Irrigated Lands Group Attn: John Adriany 3022 Elliot Street San Diego, California,92106 EMA Log #: 13I0812

Project Name: None

Enclosed with this letter are the test results performed by subcontract laboratory for the following analyses:

- TOC Liquid by SM5310B
- DOC Liquid by SM5310B

The samples were received by EnviroMatrix Analytical, Inc. intact and with chain-of-custody documentation. The test results and pertinent quality assurance/quality control data are listed on the attached tables.

I certify that this data report is in compliance both technically and for completeness. Release of the data contained in this hard copy data report has been authorized by the following signature.

Dan Verdon

Laboratory Director

Clinical Laboratory of San Bernardino, Inc.



08 October 2013

Clinical Lab No.: 13J0065

Louis Luick EnviroMatrix Analytical, Inc. 4340 Viewridge., Ste. A San Diego, CA 92123

Project Name: Drinking Water

Sub Project:

1310812

Enclosed are the results of the analyses for samples received at the laboratory on 10/01/13. Samples were received within temperature range, in correct containers and preservation.

Analyses were performed pursuant to client's chain of custody, within hold times, utilizing EPA or other ELAP approved methodologies.

I certify that the results are within compliance both technically and for completeness. Analytical results are attached to this letter. Please call if any additional information and or assistance are needed.

Thank you for choosing Clinical Laboratory of San Bernardino for your analytical needs.

Sincerely,

Robin Glenney **Project Manager**

Clinical Laboratory of San Bernardino, Inc.



EnviroMatrix Analytical, Inc.

4340 Viewridge., Ste. A San Diego CA, 92123 Project: Drinking Water

Sub Project: 13I0812

Project Manager: Louis Luick

Work Order: 13J0065

Received: 10/01/13 11:05

Reported: 10/08/13

DLR-13 13J0065-01 (Water) Sample Date: 09/27/13 11:42 Sampler: Not Listed

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Dissolved Organic Carbon	SM 5310BM	2.0	mg/L	0.30		10/01/13	10/01/13	1340104	HT-06
Total Organic Carbon	SM 5310B	2.1	mg/L	0.30		10/01/13	10/01/13	1340104	

Clinical Laboratory of San Bernardino, Inc.



EnviroMatrix Analytical, Inc.

4340 Viewridge., Ste. A San Diego CA, 92123 Project: Drinking Water

Sub Project: 13I0812 Project Manager: Louis Luick Work Order: 13J0065

Received: 10/01/13 11:05 Reported: 10/08/13

General Chemical Analyses - Quality Control Clinical Laboratory of San Bernardino

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1340104	Analyst: DI	•									
Blank (1340104-BLK1)					Prepared	& Analyz	ed: 10/01/	13			
Dissolved Organic Carbon		ND	0.30	mg/L							
Total Organic Carbon		ND	0.30	mg/L							
LCS (1340104-BS1)					Prepared	& Analyz	ed: 10/01/	13			
Total Organic Carbon		1.91	0.30	mg/L	2.0		96	80-120			
Matrix Spike (1340104-M	S1)	Sou	rce: 13I221	1-01	Prepared	& Analyz	ed: 10/01/	13			
Total Organic Carbon		2.19	0.30	mg/L	2.0	0.206	99	80-120			
Matrix Spike Dup (134010	4-MSD1)	Sou	rce: 13I221	1-01	Prepared	& Analyz	ed: 10/01/	13			
Total Organic Carbon		2.14	0.30	mg/L	2.0	0.206	97	80-120	2	20	

HT-06 Sample was received and analyzed outside of recommended hold time.

ND Analyte NOT DETECTED at or above the reporting limit

SUBCONTRACT ORDER

EnviroMatrix Analytical, Inc.

13I0812

13/2065

SENDING LABORATORY:

EnviroMatrix Analytical, Inc. 4340 Viewridge Ave., Ste. A San Diego, CA 92123

Phone: (858) 560-7717 Fax: (858) 560-7763

Project Manager:

Jennifer Beyer

RECEIVING LABORATORY:

Clinical Lab of San Bernardino, 1--

21881 Barton Rd Grand Terrace, CA 92313

Phone: (909) 825-7693

Fax: (909) 825-7696

PLEASE SEND REPORTS TO: jbeyer@enviromatrixinc.com; lluick@enviromatrixinc.com;

reports@enviromatrixinc.com. Use comments as sample ID on report.

Analysis

Expires

Laboratory ID

Comments

Sample ID: 1310812-01 Water Sampled:09/27/13 11:42 TOC-Liquid by SM5310B **†0**408/13 16:00 10/25/13 11:42 DLR-13 DOC - Liquid by SM5310 B 10/08/13 16:00 10/25/13 11:42 DLR-13 Containers Supplied: Voa Vial - HCl (E) Voa Vial - HCl (F) 125 ml amber - unpreservo

Received B Date 12-1-6 Released By Date Received B

Page 1 of 2

SUBCONTRACT ORDER

EnviroMatrix Analytical, Inc.

13I0812

SENDING LABORATORY:

EnviroMatrix Analytical, Inc. 4340 Viewridge Ave., Ste. A San Diego, CA 92123

Phone: (858) 560-7717 Fax: (858) 560-7763

Project Manager: Jennifer Beyer

RECEIVING LABORATORY:

Clinical Lab of San Bernardino, I---

21881 Barton Rd

Grand Terrace, CA 92313

Phone:(909) 825-7693

Fax: (909) 825-7696

PLEASE SEND REPORTS TO: jbeyer@enviromatrixinc.com; lluick@enviromatrixinc.com; reports@enviromatrixinc.com.

Use comments as sample ID on report

	STND				
Analysis	Due	Expires	Laboratory ID	Comments	
Sample ID: 1310812-01	Water Sample	d:09/27/13 11:42			
TOC-Liquid by SM5310B	(10/ 08/13 16:00	10/25/13 11:42		DLR-13	
DOC - Liquid by SM5310 B	10/08/13 16:00	10/25/13 11:42		DLR-13	
Containers Supplied:	`				
Voa Vial - HCl (E)	Voa Vial - HCl (F)	125 ml aml	ner - unpreserve		

property of the property of th

Received By

Date

Date

Released By

Date

Received By

-EnviroMatrix (Ent.) Analytical, Inc.

CHAIN-OF-CUSTODY RECORD

4340 Viewridge Ave., Ste. A - San Diego, CA 92123 - Phone (858) 560-7717 - Fax (858) 560-7763

9th 561 RECEIVED BY 0 HOROTAIKA **70**0 COD BOD Heterotrophic Plate Count (HPC) Company: Company □ Enterolert □ MTF surerococcus, Signature Signature Print Print Colilert, T+E.Coli

P/A

Enumeration Requested Analysis Coliform, a Total (MTF) a Fecal (MTF) 7.27.6 0751 DATE/TIME □ Dissolved $u_{\mathbb{Z}}$ зA пЭ ΙN ЪР Cr epinegro 🗆 □ Metals CLP (RCRA) "ILLC "STLC CAC Title 22/CAM17 Metals PNH3 NXT - Nitrite - TKN DPH GEC GTSS GTDS (Spanodmo Spanotin (Spanoda) A CONTRACT hera Merie (Organophosphorus Pesticides) 1718 RELINQUISHED BY (Polychlorinated Biphenyls) 7808 / 809 (Organochlorine Pesticides) 1808 / 809 3 ylno HA9 🗆 (20VS) (2VOC) 954/8560 (VOC) Full BTXE MTBE Oxy Nap とられて Company: 8015B (TPH) 🗆 Gas 🗆 Diesel 🗆 Ext Company: Company: Signature Signature Signature Print Print Print Oil & Grease a 413.1 a 413.2 a 1664 5 Container # / Type Containers Properly Preseved: Yes No N/A Sampled By: Client EMA Autosampler JO Matrix Yahoo, ON Sample Consult 3 45106 Turn-Around-Time: a Same Day a 24 hr a 48 hr a 3 day a 4 day a 5 day a STD (7 day) Reporting Requirements: a Fax (PDF a Excel a Geotracker/EDF a Hard Copy a EDI Sample Time WW = Wastewater, S = Soil, SED = Sediment, SD = Solid, T = Tissue, O = Oil, L = Liquid Sample Disposal: a By Laboratory a Return to Client: P/U or Delivery a Archive Temp @ Receipt: Matrix Codes: A = Air, DW = Drinking Water, GW = Groundwater, SW = Storm Water Shipped By: a Courier a UPS a FedEx a USPS a Client Drop Off a Other Sample PPICATOD Date S PO#: 1300 CANA 女人ではない Sample Integrity 51110TT VIEWO Ohn cal 1-LANI Carlorophused 3408 Client Sample ID MATER 740 3022 がユーア 2027 NHO HO 74 Custody Seals Intact: Yes No N/A Project/Sample Comments: COC/Labels Agree: Yes No N/A Correct Containers: Yes No N/A ŧ EMA LOG#: 2 もに区 Billing Address: A Samplers(s): Project ID: Project #: Address: Client: Phone: Email: #QI Attn: 9 9 4 o

'Additional costs may apply, consult a project manager for details.

EMA reserves the right to return any samples that do not match our waste profile.

NOTE: By relinquishing samples to EMA, Inc., client agrees to pay for the services requested on this COC form and any additional analyses performed on this project. Payment for services is due within 30 days from date of invoice. Samples will be disposed of 7 days after report has been finalized unless otherwise noted. All work is subject to EMA's terms and conditions.

EnviroMatrix



EMA Log #: 13I0812

17 October 2013

San Mateo Irrigated Lands Group Attn: John Adriany 3022 Elliot Street San Diego, California,92106

Project Name: None

Enclosed with this letter are the test results performed by subcontract laboratory for the following analyses:

• Chlorophyll A & B

The samples were received by EnviroMatrix Analytical, Inc. intact and with chain-of-custody documentation. The test results and pertinent quality assurance/quality control data are listed on the attached tables.

I certify that this data report is in compliance both technically and for completeness. Release of the data contained in this hard copy data report has been authorized by the following signature.

Dan Verdon

Laboratory Director



October 9, 2013

Analytical Report for Service Request No: K1310360

Louis Luick Enviromatrix Analytical, Incorporated 4340 Viewridge Avenue Suite A San Diego, CA 92123

RE: 13I0812

Dear Louis:

Enclosed are the results of the sample submitted to our laboratory on September 28, 2013. For your reference, these analyses have been assigned our service request number K1310360.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3363. You may also contact me via Email at Lisa.Domenighini@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Lisa Domenighini

Project Manager

LD/ln

Page 1 of ___8

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. DOD-QSM 4.2 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. DOD-QSM 4.2 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. DOD-QSM 4.2 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- O See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

K131060

SUBCONTRACT ORDER

EnviroMatrix Analytical, Inc. 1310812

SENDING LABORATORY:

EnviroMatrix Analytical, Inc. 4340 Viewridge Ave., Ste. A San Diego, CA 92123

Phone: (858) 560-7717 Fax: (858) 560-7763

Project Manager: Jennifer Beyer **RECEIVING LABORATORY:**

Columbia Analytical Services, Inc. [S]

1317 South 13th Avenue Kelso, WA 98626

Phone :(360) 577-7222

Fax: (360) 636-1068

PLEASE SEND REPORTS TO: jbeyer@enviromatrixinc.com;

lluick@enviromatrixinc.com; reports@enviromatrixinc.com.

Use comments as sample ID on report

Analysis	Due Due	Expires	Laboratory ID	Comments
Sample ID: 1310812-01	Water	Sampled:09/27/13 11:42		
Chlorophyll A & B Containers Supplied: 11. Amber- Unpres. (H)	10/08/13 16	10/21/13 11:42		DLR-13

Received By Released By Date

Date



ALS						PC 13	<u> </u>
6.	\cdot $nA + n$	Receipt and P	reservation For		W. Colodo	v	
Client / Project: Frive	rol latrix		_Service Reques	t K13	10/00	-A.	
Received: 4/28/13	Opened: 9/28/13	By:	The Unic	paded: $9/29$	# By:_	JICL	
1. Samples were received via?	Mail Fed Ex	UPS DH	L PDX Con	urier Hand I	Delivered		
2. Samples were received in: (cir	ccle) Cooler	Box Enve	lope Other_			NA	
3. Were <u>custody seals</u> on coolers	? NA Y	$\binom{N}{}$ If	yes, how many and				
If present, were custody seals	intact? Y	N	If present, were th			Y	N
Raw Corrected Raw Cooler Temp Cooler Temp Blank	Corrected Corr. Temp Blank Factor	Thermometer ID	Cooler/COC ID NA	T	racking Numbe	er NA	Filed
3.13.4-	- to.3.	342		5934	DAOG 4	217	
	= = = = = = = = = = = = = = = = = = = =				<u></u>		
					,		
4. Packing material: Inserts	Baggies Rubble Wrd	p Gel Papits	Wet Ice Dry Ice	Sleeves	80/		
5. Were custody papers properly	filled out (ink, signed,	etc.)?		L	/ NA	(Ā.,	N
5. Did all bottles arrive in good of	condition (unbroken)?	Indicate in the to	able below.		NA	(Y	N
7. Were all sample labels comple	te (i.e analysis, preserva	ation, etc.)?			NA	\widecheck{Y}	N
3. Did all sample labels and tags	agree with custody pape	ers? Indicate mo	ijor discrepancies i	n the table on pa	ge 2. NA	M	N
Were appropriate bottles/conta	ainers and volumes rece	eived for the test	s indicated?		NA	Ŷ	N
10. Were the pH-preserved bottle	s (see SMO GEN SOP) re	eceived at the ap	propriate pH? India	cate in the table	below (NA	Y	N
11. Were VOA vials received wit					NA	Y	N
12. Was C12/Res negative?	1				KA.) _Y	N
							.X.00 5
Sample ID on Bottle	Sa	imple ID on COC		lde	ntified by:		
,		<u> </u>					
						2000 - 000 000 00	
Sample ID		of Head- np space Broke	pH Reagent	Volume F added	Reagent Lot Number I	Initials Tir	me
						HHP.	E
				2000	HUH		
				2/16/11			
Notes, Discrepancies, & Resol	utions:						
, <u>r</u>			***************************************				· · · · · · · · · · · · · · · · · · ·
		The state of the s					

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:

Enviromatrix Analytical, Incorporated

Service Request: K1310360

Project:

Sample Matrix: Water Date Collected: 09/27/13

Date Received: 09/28/13

Analysis Method:

Units: mg/m3

Prep Method:

SM 10200 H

Method

Basis: NA

Chlorophyll A

						Date	Date	
Sample Name	Lab Code	Result	MRL	MDL_	Dil.	Analyzed	Extracted	Q
13I0812-01	K1310360-001	1650	57	22	2	10/09/13 09:00	10/9/13	
Method Blank	K1310360-MB1	ND U	0.80	0.30	1	10/09/13 09:00	10/9/13	
Method Blank	K1310360-MB2	ND U	0.80	0.30	1	10/09/13 09:00	10/9/13	

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:

Enviromatrix Analytical, Incorporated

Service Request:

K1310360

Project:

Sample Matrix:

Water

Date Analyzed:

10/09/13

Duplicate Lab Control Sample Summary

General Chemistry Parameters

Analysis Method:

SM 10200 H

Units:

mg/m3

Basis:

NA

Analysis Lot:

362413

Lab Control Sample K1310360-LCS Duplicate Lab Control Sample K1310360-DLCS

% Rec

RPD Limit **Analyte Name** % Rec Result **Spike Amount** % Rec Result Spike Amount Limits **RPD** Chlorophyll A 4570 4440 103 4490 4440 101 88-113 20

SUBCONTRACT ORDER

EnviroMatrix Analytical, Inc.

13I0812

SENDING LABORATORY:

EnviroMatrix Analytical, Inc. 4340 Viewridge Ave., Ste. A San Diego, CA 92123

Phone: (858) 560-7717 Fax: (858) 560-7763

Released By

Project Manager: Jennifer Beyer

RECEIVING LABORATORY:

Columbia Analytical Services, Inc. [S]

1317 South 13th Avenue Kelso, WA 98626

Phone :(360) 577-7222

Fax: (360) 636-1068

PLEASE SEND REPORTS TO: jbeyer@enviromatrixinc.com; lluick@enviromatrixinc.com; reports@enviromatrixinc.com.

Use comments as sample ID on report.

Analysis	S7 ND	> Expires	Laboratory ID	Comments
Sample ID: 13I0812-01	Water	Sampled:09/27/13 11:42		
Chlorophyll A & B Containers Supplied: 1L Amber- Unpres. (H)	10/08/13 1	6:00 10/21/13 11:42		DLR-13

Released By Date Received By Date

Date

Received By

Date

of Page

-EnviroMatrix (Ex.) Analytical, Inc. -

CHAIN-OF-CUSTODY RECORD

4340 Viewridge Ave., Ste. A - San Diego, CA 92123 - Phone (858) 560-7717 - Fax (858) 560-7763

'Additional costs may apply, consult a project manager for details.

¹EMA reserves the right to return any samples that do not match our waste profile.

NOTE: By relinquishing samples to EMA, Inc., client agrees to pay for the services requested on this COC form and any additional analyses performed on this project. Payment for services is due within 30 days from date of invoice. Samples will be disposed of 7 days after report has been finalized unless otherwise noted. All work is subject to EMA's terms and conditions.