



**Victor Valley Wastewater Reclamation Authority**  
*A Joint Powers Authority and Public Agency of the State of California*  
20111 Shay Road, Victorville, CA 92394  
Telephone: (760) 246-8638  
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E-mail: [mail@vwwra.com](mailto:mail@vwwra.com)

February 17, 2015

Ms. Lauren Fondahl  
U. S. EPA – Region IX  
75 Hawthorne Street  
San Francisco, CA 94105-3901

RE: 2014 Annual Biosolids Monitoring Report

Dear Ms. Fondahl:

Enclosed is the annual biosolids monitoring report for calendar year 2014, as required by 40 CFR Part 503. Biosolids generated in 2014 at Victor Valley Wastewater Reclamation Authority (VWVRA) were stored on the plant site. In 2014, 1,333 dry metric tonnes were removed from the storage pad, American Organics, formerly Organic Express, Inc., a subsidiary of California Bio-Mass, Inc. hauled the biosolids to Pettigrew Farms in Lucerne Valley, California for land application.

Although there are currently no reporting requirements for the land application of Class A EQ biosolids, VWVRA does maintain records on the disposal of its Class A EQ biosolids. If Class A requirements are not met on a particular sample, the biosolids are held and retested until Class A requirements are met.

I certify under penalty of law that the vector attraction reduction requirements in 503.33(b)(7) and the pathogen reduction requirements in 503.32(a)(6) were met. These determinations have been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogen requirements and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

Sincerely,

Logan Olds  
General Manager

Enclosures

cc: SWRCB Discharge Monitoring Report Processing Center  
Patty Z. Kouyoumdjian, Executive Officer, Lahontan Regional Water Quality Control Board



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## ANNUAL BIOSOLIDS MONITORING REPORT - 2014

### 1. GENERAL INFORMATION

Name of Generator: Victor Valley Wastewater Reclamation Authority  
 Facility Address: 20141 Shay Road, Victorville, CA 92394  
 Contact Person: Logan Olds, General Manager  
 Telephone: (760) 246-8638

### 2. FACILITY INFORMATION

Name: Victor Valley Wastewater Reclamation Authority  
 Location: 20141 Shay Road, Victorville, Ca 92394  
 Telephone: (760) 246-8638  
 NPDES Number: CA 0102822  
 Influent Flow: 12.41 MGD (2014 annual average daily flow rate)

### 3. BIOSOLIDS INFORMATION

Treatment: Biosolids at the Victor Valley Wastewater Reclamation Authority, which are generated as primary, waste activated sludge, trucked in anaerobically digestible materials (ADM), fats, oil and grease (FOG) are thickened by dissolved air flotation, anaerobically digested, conditioned in liquid sludge storage lagoons and/or pumped to dry in soil-cement lined solar drying beds, then removed from the beds and stored on site until they achieve Class A quality. In 2014, 1,333 dry metric tonnes were delivered to Pettigrew Farms for land application.

Quantity Generated: 5,706 dry metric tonnes in 2014. Of the total production 515.28 dry metric tonnes of ADM and 79.83 dry metric tonnes of FOG were processed.

Quantity in Storage: 12,529 dry metric tonnes as of December 31, 2014, including 0 dry metric tonnes in the storage lagoons, 4,460 dry metric tonnes class A in the solar drying beds, 6,173 dry metric tonnes class A in solar drying bed #4, and 1,896 dry metric tonnes on the dried sludge storage pad.

Monitoring & Frequency: Pathogen reduction is monitored by testing for Fecal Coliform, Helminth Ova and Enteric Virus. Each drying bed is monitored by sampling analysis, confirmed by receipt acceptable results or re-sampling before transferring to storage pad. This ensures biosolids have met 40 CFR 503 regulations before giving clearance to transfer to the facility storage pad where biosolids are clear for disposal. Biosolids that do not meet 40 CFR 503 regulations are stored in drying bed #4 where re-sampling is performed to give final clearance for disposal once regulations are met.

Sampling and testing for 40 CFR 503 Table B pollutant concentrations was performed to each individual drying bed before relocating to

**Table B**

	Mar	Mar	Mar	Mar	Mar	Mar	Mar	Mar	Sep	Sep	Sep	Sep	Sep	Sep	Dec				
DB-drying bed STP-Storage Pad	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	STP		Annual Average	Annual Maximum	Applicable 503 Criteria <sup>2</sup>
DB#	#1	#2	#3	#5	#7	#8	#10	#11	#1	#2	#3	#7	#8	#9					
<b>1 Biosolids Pollutant Concentrations (mg/kg) <sup>(1)</sup></b>																			
Arsenic	5.6	7.4	6.7	6.3	7.5	8.5	8.2	7.8	7.3	9.8	6.9	12	8.5	11	ND		8	12	75
Cadmium	ND	1.2	1.1	1	1.4	1.3	1.1	1.2	1.4	1.7	1.2	1.9	1.4	1.8	ND		1.4	1.9	85
Copper	240	340	290	290	370	370	340	330	240	300	220	310	240	310	210		289	370	4,300
Lead	12	12	13	11	32	14	12	12	13	21	11	15	13	21	11		15	32	840
Mercury	0.5	0.5	0.5	0.2	0.6	0.7	0.3	0.7	1.2	1.2	0.5	0.8	1.1	0.8	1.2		0.8	1.2	57
Molybdenum	7.7	11	8.6	8.8	11	11	9.6	10	11	13	9.1	15	12	15	ND		11	15	75
Nickel	13	17	17	15	16	18	18	18	15	18	13	18	14	18	14		16	18	420
Selenium	5	6.5	5	5	7	6.8	5.5	6	6.1	7.2	5.1	7.7	5.9	7.4	ND		6.2	7.7	100
Zinc	540	760	700	660	830	810	700	770	690	830	620	910	700	880	540		729	910	7,500
-1	per 40 CFR 503.13(b)(3), Pollutant Concentrations. If multiple samples were tested in a given month maximum results are reported.																		
-2	per 40 CFR 503.13(b)(1), Ceiling Concentrations																		
<b>2 Pathogens</b>																			
Hel Ova <sup>(3)</sup>	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1
PFU <sup>(4)</sup>	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1
MPN <sup>(5)</sup>	3.6	0.2	2.6	0.8	0.2	1.4	0.2	0.2	18.6	0.5	5.7	1.5	0.9	3	2.3		3.7	18.6	<1,000
-3	Helminth Ova per 4 grams.																		
-4	Plaque-forming Unit Enteric Virus per 4 grams.																		
-5	Most Probable Number of Fecal Coliform per gram of total solids.																		
<b>3 Vector Attraction Reduction</b>																			
Solids Concentration	91	91	93	94	94	93	94	87	92	95	87	95	92	92	95		92	95	Solids >= 90%
*Vector Attraction Reduction (VAR) is achieved by drying stabilized solids to 90% or more before mixing with other materials.																			

Note - Biosolids that did not pass all testing requirements were held on Bed #4 and will be re-sampled in accordance with Rule 503 regulations. No biosolids are moved to the Storage Pad until all Rule 503 requirements are met



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Client Name: Victor Valley Reclamation Authority  
Contact: Lorenzo Rodriguez  
Address: 20111 Shay Road  
Victorville, CA 92394

Analytical Report: Page 1 of 5  
Project Name: VVWRA-Biosolids Sample - Anr  
Project Number: Biosolids Sample - Annual  
NPDES  
**Work Order Number: B4L3129**

Report Date: 23-Jan-2015

Received on Ice (Y/N): Yes Temp: 7 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

**Sample Identification**

<u>Lab Sample #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>By</u>	<u>Date Submitted</u>	<u>By</u>
B4L3129-01	141230-24 Storage Pad Biosolids (6 Grab-Composite) Composite	Solid	12/30/14 14:47	Bobby Hesse	12/31/14 11:52	Courier (J. Mendez)
B4L3129-02	141230-24 Storage Pad Biosolids (6 Grab-Composite) Composite	Solid	12/30/14 14:47	Bobby Hesse	12/31/14 11:52	Courier (J. Mendez)

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NELAP no. 02101CA  
CA Elap no. 2698  
EPA no. CA00102



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NPDES  
**Work Order Number: B4L3129**

Report Date: 23-Jan-2015

Received on Ice (Y/N): Yes Temp: 7 °C

Laboratory Reference Number

**B4L3129-01**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
141230-24 Storage Pad Biosolids (6 Grab-Composite)	Solid	12/30/14 14:47	12/31/14 11:52

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
<b>Anions</b>							
Nitrate as N	120	2.0	mg/kg	EPA 300.0	01/01/15 01:36	DCB	N_WEX
<b>Solids</b>							
Total Solids	89	0.10	%	SM 2540G	01/21/15 09:40	lfs	
<b>Nutrients</b>							
Nitrite as N	7.0	1.0	mg/kg	SM 4500NO2 B	01/02/15 20:00	lfs	N_WEX
Ammonia-Nitrogen	2700	200	mg/Kg*	SM4500NH3H	01/02/15 16:11	sll	N_WEX
Kjeldahl Nitrogen	48000	2000	mg/kg	EPA 351.2	01/02/15 17:55	sll	
Total Phosphorus	29000	100	mg/Kg*	EPA 6020	01/08/15 17:03	MEL	
<b>Metals and Metalloids; EPA SW846 Series</b>							
Antimony	ND	10	mg/kg	EPA 6020	01/06/15 16:51	MEL	
Arsenic	ND	10	mg/kg	EPA 6020	01/06/15 16:51	MEL	
Barium	220	10	mg/kg	EPA 6020	01/06/15 16:51	MEL	
Beryllium	ND	5.0	mg/kg	EPA 6020	01/06/15 16:51	MEL	
Cadmium	ND	5.0	mg/kg	EPA 6020	01/06/15 16:51	MEL	
Total Chromium	39	10	mg/kg	EPA 6020	01/06/15 16:51	MEL	
Cobalt	ND	10	mg/kg	EPA 6020	01/06/15 16:51	MEL	
Copper	210	10	mg/kg	EPA 6020	01/06/15 16:51	MEL	
Lead	11	10	mg/kg	EPA 6020	01/06/15 16:51	MEL	
Mercury	1.2	0.80	mg/kg	EPA 7471A	01/05/15 16:23	ams	
Molybdenum	ND	10	mg/kg	EPA 6020	01/06/15 16:51	MEL	
Nickel	14	10	mg/kg	EPA 6020	01/06/15 16:51	MEL	
Selenium	ND	10	mg/kg	EPA 6020	01/06/15 16:51	MEL	
Silver	ND	10	mg/kg	EPA 6020	01/06/15 16:51	MEL	
Thallium	ND	50	mg/kg	EPA 6020	01/06/15 16:51	MEL	NMint
Vanadium	78	10	mg/kg	EPA 6020	01/06/15 16:51	MEL	
Zinc	540	10	mg/kg	EPA 6020	01/06/15 16:51	MEL	

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Analytical Report: Page 3 of 5  
 Project Name: VVWRA-Biosolids Sample - Anr  
 Project Number: Biosolids Sample - Annual  
 NPDES  
**Work Order Number: B4L3129**

Report Date: 23-Jan-2015

Received on Ice (Y/N): Yes Temp: 7 °C

Laboratory Reference Number  
**B4L3129-02**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
141230-24 Storage Pad Biosolids (6 Grab-Composite)	Solid	12/30/14 14:47	12/31/14 11:52

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
California Waste Extraction Test (Title 22 sec. 66261 Apx II); Inorganics							
Antimony	ND	1.5	mg/L	EPA 6020A	01/07/15 17:57	ERA	
Arsenic	ND	0.50	mg/L	EPA 6020A	01/07/15 17:57	ERA	
Barium	ND	10	mg/L	EPA 6020A	01/07/15 17:57	ERA	
Beryllium	ND	0.075	mg/L	EPA 6020A	01/07/15 17:57	ERA	
Cadmium	ND	0.10	mg/L	EPA 6020A	01/07/15 17:57	ERA	
Total Chromium	0.60	0.50	mg/L	EPA 6020A	01/07/15 17:57	ERA	
Hexavalent Chromium	ND	0.25	mg/L	EPA 7196	01/08/15 11:10	ams	N_RLm
Cobalt	ND	8.0	mg/L	EPA 6020A	01/07/15 17:57	ERA	
Copper	2.8	2.5	mg/L	EPA 6020A	01/07/15 17:57	ERA	
Lead	ND	0.50	mg/L	EPA 6020A	01/07/15 17:57	ERA	
Mercury	ND	0.010	mg/L	EPA 7470A	01/09/15 14:05	ams	
Molybdenum	ND	35	mg/L	EPA 6020A	01/07/15 17:57	ERA	
Nickel	ND	2.0	mg/L	EPA 6020A	01/07/15 17:57	ERA	
Selenium	ND	0.10	mg/L	EPA 6020A	01/07/15 17:57	ERA	
Silver	ND	0.50	mg/L	EPA 6020	01/07/15 17:57	ERA	
Thallium	ND	0.70	mg/L	EPA 6020A	01/07/15 17:57	ERA	
Vanadium	2.4	2.4	mg/L	EPA 6020A	01/07/15 17:57	ERA	
Zinc	ND	25	mg/L	EPA 6020A	01/07/15 17:57	ERA	
California Waste Extraction Test (Title 22 sec. 66261 Apx II); Pesticides							
4,4'-DDD	ND	0.010	mg/L	EPA 8081A	01/13/15 19:37	sbart	
4,4'-DDE	ND	0.010	mg/L	EPA 8081A	01/13/15 19:37	sbart	
4,4'-DDT	ND	0.010	mg/L	EPA 8081A	01/13/15 19:37	sbart	
Aldrin	ND	0.014	mg/L	EPA 8081A	01/13/15 19:37	sbart	
Chlordane	ND	0.025	mg/L	EPA 8081A	01/13/15 19:37	sbart	
Dieldrin	ND	0.080	mg/L	EPA 8081A	01/13/15 19:37	sbart	
Endrin	ND	0.0020	mg/L	EPA 8081A	01/13/15 19:37	sbart	
Heptachlor	ND	0.047	mg/L	EPA 8081A	01/13/15 19:37	sbart	
Lindane	ND	0.040	mg/L	EPA 8081A	01/13/15 19:37	sbart	
Methoxychlor	ND	1.0	mg/L	EPA 8081A	01/13/15 19:37	sbart	
Toxaphene	ND	0.050	mg/L	EPA 8081A	01/13/15 19:37	sbart	
Surrogate: Decachlorobiphenyl	35.3	% 34.6-123		EPA 8081A	01/13/15 19:37	sbart	

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Analytical Report: Page 4 of 5  
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 Project Number: Biosolids Sample - Annual  
 NPDES  
**Work Order Number: B4L3129**

Report Date: 23-Jan-2015

Received on Ice (Y/N): Yes Temp: 7 °C

Laboratory Reference Number

**B4L3129-02**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
141230-24 Storage Pad Biosolids (6 Grab-Composite)	Solid	12/30/14 14:47	12/31/14 11:52

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
California Waste Extraction Test (Title 22 sec. 66261 Apx II); PCBs							
Aroclor 1016	ND	0.50	mg/L	EPA 8082	01/20/15 15:13	sbart	
Aroclor 1221	ND	0.50	mg/L	EPA 8082	01/20/15 15:13	sbart	
Aroclor 1232	ND	0.50	mg/L	EPA 8082	01/20/15 15:13	sbart	
Aroclor 1242	ND	0.50	mg/L	EPA 8082	01/20/15 15:13	sbart	
Aroclor 1248	ND	0.50	mg/L	EPA 8082	01/20/15 15:13	sbart	
Aroclor 1254	ND	0.50	mg/L	EPA 8082	01/20/15 15:13	sbart	
Aroclor 1260	ND	0.50	mg/L	EPA 8082	01/20/15 15:13	sbart	
Surrogate: Decachlorobiphenyl	11.1	% 10-158		EPA 8082	01/20/15 15:13	sbart	
California Waste Extraction Test (Title 22 sec. 66261 Apx II); Herbicides							
2,4-D	ND	1.0	mg/L	EPA 8151A	01/17/15 20:43	sbart	
2,4,5-TP Silvex	ND	0.10	mg/L	EPA 8151A	01/17/15 20:43	sbart	
Surrogate: DCAA	100	% 15.2-134		EPA 8151A	01/17/15 20:43	sbart	
California Waste Extraction Test (Title 22 sec. 66261 Apx II); Volatiles							
Trichloroethene	ND	20	mg/L	EPA 8260B	01/14/15 19:44	jes	
Surrogate: 1,2-Dichloroethane-d4	102	% 75-120		EPA 8260B	01/14/15 19:44	jes	
Surrogate: Bromofluorobenzene	95.2	% 83-120		EPA 8260B	01/14/15 19:44	jes	
Surrogate: Toluene-d8	96.0	% 80-125		EPA 8260B	01/14/15 19:44	jes	
California Waste Extraction Test (Title 22 sec. 66261 Apx II); BNAs							
Kepone	ND	0.21	mg/L	EPA 8270C	01/21/15 03:11	JHR	
Mirex	ND	0.21	mg/L	EPA 8270C	01/21/15 03:11	JHR	
Pentachlorophenol	ND	0.17	mg/L	EPA 8270C	01/21/15 03:11	JHR	
2,3,7,8-TCDD (scan)	ND	0.00010	mg/L	EPA 8270C	01/21/15 03:11	JHR	
Surrogate: 2,4,6-Tribromophenol	59.9	% 32-146		EPA 8270C	01/21/15 03:11	JHR	
Surrogate: 2-Fluorobiphenyl	51.6	% 27-117		EPA 8270C	01/21/15 03:11	JHR	
Surrogate: 2-Fluorophenol	39.7	% 21-96		EPA 8270C	01/21/15 03:11	JHR	
Surrogate: 4-Terphenyl-d14	51.9	% 49-126		EPA 8270C	01/21/15 03:11	JHR	
Surrogate: Nitrobenzene-d5	59.9	% 36-110		EPA 8270C	01/21/15 03:11	JHR	
Surrogate: Phenol-d6	33.7	% 28-112		EPA 8270C	01/21/15 03:11	JHR	

\* NELAP does not offer accreditation for this analyte/method/matrix combination

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NPDES  
**Work Order Number: B4L3129**

Report Date: 23-Jan-2015

Received on Ice (Y/N): Yes Temp: 7 °C

**Notes and Definitions**

- N\_RLm Due to sample matrix, the reporting limit has been raised.
- N\_WEX Analyte determined on a 1:10 water extract from the sample.
- NMint Due to matrix interference, the matrix spike and/or matrix spike duplicate performed on this sample did not meet laboratory acceptance criteria.
- ND: Analyte NOT DETECTED at or above the Method Detection Limit (**if MDL is reported**), otherwise at or above the Reportable Detection Limit (RDL)
- NR: Not Reported
- RDL: Reportable Detection Limit
- MDL: Method Detection Limit
- \* / " " : NELAP does not offer accreditation for this analyte/method/matrix combination

**Approval**

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted. Babcock Laboratories and its officers and employees assume no responsibility and make no warranty, express or implied, for uses or interpretations made by any recipients, intended or unintended, of this report.

Digitally signed by: Cindy Waddell  
DN: CN = Cindy Waddell C = US O = Babcock  
Laboratories OU = Project Manager Assistant  
Date: 2015.01.26 08:00:19 -07'00'

cc:

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# BIOSOLIDS SAMPLE DATA SHEET

(Please fill out applicable areas, sign and return to BioVir with the sample.)  
 Phone: 1-800-GIARDIA Fax: 707-747-1751 WEB: [www.biovir.com](http://www.biovir.com)  
 Note: Please print clearly using waterproof ink.

**LAB USE ONLY:**  
 LIMS #: 150009-1  
 Client #: VTC001  
 Date Rec'd: 1/6/15  
 Time Rec'd: 09:45  
 Temp: 3.5°C

COMPANY NAME & ADDRESS: Victor Valley Wastewater Reclamation Authority 2011 Shay Rd Yuba City, CA 92394 X241 Contact Name: Lorenzo Rodriguez Tel: 760 246-8638		DATE OF SAMPLING: 1-5-15
NAME OF SAMPLER: Bobby Hesse		TIME OF SAMPLING: 1202
LOCATION OF SAMPLING: Storage Pail	SAMPLE ID: 150105-13	
TREATMENT CHARACTERISTICS: Class A - <sup>Aerobic</sup> <del>Aerobic</del> digested	TYPE OF SAMPLE: 6 GRAB COMPOSITE	
SAMPLE VOLUME (WET WEIGHT): ~ 300 grams	TOTAL SOLIDS PERCENTAGE: % (MUST BE INCLUDED IN ORDER TO BEGIN ANALYSIS)	

HOLD TIMES (Store and ship cold)	ENTERIC VIRUS	HELMINTH OVA	SALMONELLA	FECAL COLIFORM
	2 Weeks	1 Month	6 Hours*	8 Hours*

Wt.  
425.25g

\* **Fecal Coliform - Language Extracted from EPA Fecal Coliform (Biosolids) Method 1681 (July 2006):** For fecal coliform samples for sewage sludge (biosolids) only, the holding time is extended to 24 hours for the following sample types using either EPA Method 1680 (LTB-EC) or 1681 (A-1): Class A composted, Class B aerobically digested, and Class B anaerobically digested. All other matrices should be analyzed within 8 hours of sample collection, 6 hour maximum transport and 2 hours for sample processing. Note: Adherence to sample handling procedures and holding time limits is critical to the production of valid data. Sample results will be considered invalid if these conditions are not met.

**Salmonella - Language Extracted from EPA Salmonella (Biosolids) Method 1682 (July 2006):** Analyses should begin immediately, preferably, within 2 hours of collection. If it is impossible to examine samples within 2 hours, samples must be maintained at <10°C until analysis. Samples must not be frozen. Sample analysis must begin within 6 hours unless otherwise specified in the Code of Federal Regulations Part 503. Note: Adherence to sample handling procedures and holding time limits is critical to the production of valid data. Sample results will be considered invalid if these conditions are not met.

A holding time variance is allowed from your Regional Administrator under Section 136.3(e). Please refer to the Final Rule for details.

<input checked="" type="checkbox"/> OK TO RUN PAST HOLD TIME - (up to 24 hrs from sampling for bacterial analysis)  <input type="checkbox"/> SAMPLE COMPRISED OF CLASS A COMPOSTED, CLASS B AEROBICALLY OR ANAEROBICALLY DIGESTED BIOSOLIDS (FECAL COLIFORM TEST ONLY).	Print Name: Chris Mills
	Signature:  Date: 1-5-15

ASSAY(S) TO BE PERFORMED - (PLEASE CHECK)					
ANALYTICAL STANDARD	ENTERIC VIRUS ASTM D 4994-89	HELMINTH OVA EPA 625/R-92/013	SALMONELLA EPA 1682	FECAL COLIFORM EPA 1681	TOTAL SOLIDS EPA 1684
CLASS "A"	X	X	X	X	X
CLASS "B"					

COMMENTS:

ice box - ~~free~~  
plastic ziploc

RELINQUISHED BY (SIGNED)	RECEIVED BY (SIGNED)	DATE	TIME
		1/6/15	09:45

SHIPPING ADDRESS: BIOVIR LABORATORIES, INC., 685 STONE ROAD, UNIT 6, BENICIA CALIFORNIA 94510

Fed Ex



# BioVir Laboratories

EPA ID# 01401, CA-ELAP #179

685 Stone Road, Unit 6 • Benicia, CA 94510 • (707) 747-5906 • 1-800-GIARDIA • FAX (707) 747-1751 • WEB: www.biovir.com

**REPORT NO.:** 150009  
**PAGE NO.:** 1 of 3  
**CLIENT:** Victor Valley Wastewater Reclamation Authority  
**ADDRESS:** 20111 Shay Road  
 Victorville, CA 92394  
**CLIENT NO:** VIC001      **CLIENT PO:** N/A

## ASSAY RESULTS:

**Test:** 1682 Salmonella MSRV      **Method:** EPA 1682

BioVir #	Sample ID	Site	Analyte	Result	Units
150009-001	150105-13	Storage Pad	Salmonella spp.	2.6	MPN/4 g TS
Collector: Bobby Hesse      CollectDate: 1/5/2015      CollectTime: 12:02:00 PM ReceiveDate 1/6/2015 9:45:00 AM      Matrix: Biosoilds      Temp 3.5 C Volume: 425.25 g      Analysis Start Date: 1/6/2015      Analysis Start Time: 1105 Analyst: JTruscott      Analysis End: 1/13/2015 Comment					

**Test:** Coliform, Fecal      **Method:** EPA 1681

BioVir #	Sample ID	Site	Analyte	Result	Units
150009-001	150105-13	Storage Pad	Coliform, Fecal	2.3	MPN/1 g Total Solids
Collector: Bobby Hesse      CollectDate: 1/5/2015      CollectTime: 12:02:00 PM ReceiveDate 1/6/2015 9:45:00 AM      Matrix: Biosoilds      Temp 3.5 C Volume: 425.25 g      Analysis Start Date: 1/6/2015      Analysis Start Time: 1105 Analyst: JTruscott      Analysis End: 1/13/2015 Comment					

**Test:** Enteric Virus      **Method:** ASTM D 4994-89

BioVir #	Sample ID	Site	Analyte	Result	Units
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**REPORT NO.:** 150009  
**PAGE NO.:** 3 of 3  
**CLIENT:** Victor Valley Wastewater Reclamation Authority  
**ADDRESS:** 20111 Shay Road  
Victorville, CA 92394  
**CLIENT NO:** VIC001      **CLIENT PO:** N/A

---

**ASSAY RESULTS:**

**SAMPLE EVALUATION PERFORMANCE CRITERIA:** The precise rates of recovery of organisms from environmental samples cannot be determined. BioVir Laboratories has analyzed your sample(s) in accordance with the method described with each analyte above, however, due to inherent limitations of these methods organisms may avoid detection. For additional information regarding the limitations of the method(s) referred to above please call us at 1-800-GIARDIA.

**COMPANY IS NOT AN INSURER:** BioVir Laboratories is not an insurer or guarantor of the quality and/or purity of water, wastewater, biosolid or other material from which the sample was taken. BioVir offers no express or implied warranties whatsoever concerning the quality or purity of any water, wastewater, biosolid or other material which is ultimately consumed, distributed, applied or disposed.

**MAINTENANCE OF RECORDS:** BioVir Laboratories, Inc. shall maintain records pertaining to the historical reconstruction of client's data for a minimum of five years from the date of issuance of the final report. Records may be destroyed after that date unless a written client's request for records transfer is received by BioVir which requests otherwise. Records transfer or storage charges may apply after the 5 year period. THIS REPORT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF BIOVIR LABORATORIES, INC.

2/10/2015

Date:



Signature

Quality  
Checked























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Client Name: Victor Valley Reclamation Authority  
 Contact: Gina Cloutier  
 Address: 15776 Main St. Suite 3  
 Hesperia, CA 92345

Analytical Report: Page 1 of 10  
 Project Name: VVWRA-Biosolids Sample - Anr  
 Project Number: Routine

**Work Order Number: B4C1806**

Report Date: 11-Apr-2014

Received on Ice (Y/N): Yes Temp: 7 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

**Sample Identification**

<u>Lab Sample #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>By</u>	<u>Date Submitted</u>	<u>By</u>
B4C1806-01	140318-20 Staged From Drying Bed #4-1 (Class A) Biosolids (6 Grab-Comp)	Sludge	03/18/14 13:42	Brad Adams	03/18/14 15:57	Courier (Guillermo)
B4C1806-02	140318-21 Staged From Drying Bed #4-2 (Class A) Biosolids (6 Grab-Comp)	Sludge	03/18/14 13:48	Brad Adams	03/18/14 15:57	Courier (Guillermo)
B4C1806-03	140318-22 Staged From Drying Bed #4-3 (Class A) Biosolids (6 Grab-Comp)	Sludge	03/18/14 13:35	Brad Adams	03/18/14 15:57	Courier (Guillermo)
B4C1806-04	140318-23 Staged From Drying Bed #4-5 (Class A) Biosolids (6 Grab-Comp)	Sludge	03/18/14 13:29	Brad Adams	03/18/14 15:57	Courier (Guillermo)
B4C1806-05	140318-24 Staged From Drying Bed #4-7 (Class A) Biosolids (6 Grab-Comp)	Sludge	03/18/14 13:07	Brad Adams	03/18/14 15:57	Courier (Guillermo)
B4C1806-06	140318-25 Staged From Drying Bed #4-8 (Class A) Biosolids (6 Grab-Comp)	Sludge	03/18/14 13:14	Brad Adams	03/18/14 15:57	Courier (Guillermo)
B4C1806-07	140318-26 Staged From Drying Bed #4-10 (Class A) Biosolids (6 Grab-Comp)	Sludge	03/18/14 14:02	Brad Adams	03/18/14 15:57	Courier (Guillermo)
B4C1806-08	140318-27 Staged From Drying Bed #4-11 (Class A) Biosolids (6 Grab-Comp)	Sludge	03/18/14 13:54	Brad Adams	03/18/14 15:57	Courier (Guillermo)



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Client Name: Victor Valley Reclamation Authority  
 Contact: Gina Cloutier  
 Address: 15776 Main St. Suite 3  
 Hesperia, CA 92345

Analytical Report: Page 2 of 10  
 Project Name: VVWRA-Biosolids Sample - Anr  
 Project Number: Routine

**Work Order Number: B4C1806**

Report Date: 11-Apr-2014

Received on Ice (Y/N): Yes Temp: 7 °C

Laboratory Reference Number  
**B4C1806-01**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
140318-20 Staged From Drying Bed #4-1 (Class A) Biosolids (6 Grab-Comp)	Sludge	03/18/14 13:42	03/18/14 15:57

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
<b>Anions</b>							
Nitrate as N	ND	2.2	mg/kg dry	EPA 300.0	03/22/14 07:43	sze	N_WEX
<b>Solids</b>							
Total Solids	91	0.10	%	SM 2540G	03/19/14 10:15	mal	
<b>Nutrients</b>							
Nitrite as N	7.5	1.1	mg/kg dry	SM 4500NO2 B	03/21/14 16:20	ifs	N_WEX
Ammonia-Nitrogen	2600	220	mg/Kg* dry	SM4500NH3H	03/21/14 12:22	sll	N_WEX
Kjeldahl Nitrogen	30000	2200	mg/kg dry	EPA 351.2	03/28/14 15:09	sll	
Total Phosphorus	29000	55	mg/Kg* dry	EPA 6020	03/28/14 17:27	ERA	
<b>Metals and Metalloids; EPA SW846 Series</b>							
Antimony	ND	5.0	mg/kg dry	EPA 6020	03/26/14 01:05	ERA	
Arsenic	5.6	5.0	mg/kg dry	EPA 6020	03/26/14 01:05	ERA	
Barium	300	100	mg/kg dry	EPA 6010B	03/26/14 18:46	kya	
Beryllium	ND	1.0	mg/kg dry	EPA 6020	03/26/14 01:05	ERA	
Cadmium	ND	1.0	mg/kg dry	EPA 6020	03/26/14 01:05	ERA	
Total Chromium	31	1.0	mg/kg dry	EPA 6020	03/26/14 01:05	ERA	
Cobalt	3.8	1.0	mg/kg dry	EPA 6020	03/26/14 01:05	ERA	
Copper	240	100	mg/kg dry	EPA 6010B	03/26/14 18:46	kya	
Lead	12	5.0	mg/kg dry	EPA 6020	03/26/14 01:05	ERA	
Mercury	0.53	0.44	mg/kg dry	EPA 7471A	03/24/14 16:36	ams	
Molybdenum	7.7	1.0	mg/kg dry	EPA 6020	03/26/14 01:05	ERA	
Nickel	13	0.10	mg/kg dry	EPA 6010B	03/26/14 18:46	kya	
Selenium	ND	5.0	mg/kg dry	EPA 6020	03/26/14 01:05	ERA	
Silver	3.7	1.0	mg/kg dry	EPA 6020	03/26/14 01:05	ERA	
Thallium	ND	25	mg/kg dry	EPA 6020	03/26/14 01:05	ERA	
Vanadium	64	5.0	mg/kg dry	EPA 6020	03/26/14 01:05	ERA	
Zinc	540	100	mg/kg dry	EPA 6010B	03/26/14 18:46	kya	



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Client Name: Victor Valley Reclamation Authority  
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 Address: 15776 Main St. Suite 3  
 Hesperia, CA 92345

Analytical Report: Page 3 of 10  
 Project Name: VVWRA-Biosolids Sample - Anr  
 Project Number: Routine

Report Date: 11-Apr-2014

**Work Order Number: B4C1806**  
 Received on Ice (Y/N): Yes Temp: 7 °C

Laboratory Reference Number  
**B4C1806-02**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
140318-21 Staged From Drying Bed #4-2 (Class A) Biosolids (6 Grab-Comp)	Sludge	03/18/14 13:48	03/18/14 15:57

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
<b>Anions</b>							
Nitrate as N	140	11	mg/kg dry	EPA 300.0	04/03/14 03:31	aed	N_WEX
<b>Solids</b>							
Total Solids	91	0.10	%	SM 2540G	03/19/14 10:15	mal	
<b>Nutrients</b>							
Nitrite as N	1.4	1.1	mg/kg dry	SM 4500NO2 B	03/21/14 16:20	lfs	N_WEX
Ammonia-Nitrogen	3200	220	mg/Kg*	SM4500NH3H	03/21/14 12:24	sil	N_WEX
Kjeldahl Nitrogen	41000	2200	mg/kg dry	EPA 351.2	03/28/14 15:10	sil	
Total Phosphorus	30000	55	mg/Kg* dry	EPA 6020	03/28/14 17:29	ERA	
<b>Metals and Metalloids; EPA SW846 Series</b>							
Antimony	ND	5.0	mg/kg dry	EPA 6020	03/26/14 01:08	ERA	
Arsenic	7.4	5.0	mg/kg dry	EPA 6020	03/26/14 01:08	ERA	
Barium	270	100	mg/kg dry	EPA 6010B	03/26/14 18:50	kya	
Beryllium	ND	1.0	mg/kg dry	EPA 6020	03/26/14 01:08	ERA	
Cadmium	1.2	1.0	mg/kg dry	EPA 6020	03/26/14 01:08	ERA	
Total Chromium	44	1.0	mg/kg dry	EPA 6020	03/26/14 01:08	ERA	
Cobalt	2.8	1.0	mg/kg dry	EPA 6020	03/26/14 01:08	ERA	
Copper	340	100	mg/kg dry	EPA 6010B	03/26/14 18:50	kya	
Lead	12	5.0	mg/kg dry	EPA 6020	03/26/14 01:08	ERA	
Mercury	0.59	0.44	mg/kg dry	EPA 7471A	03/24/14 16:34	mel	
Molybdenum	11	1.0	mg/kg dry	EPA 6020	03/26/14 01:08	ERA	
Nickel	17	0.10	mg/kg dry	EPA 6010B	03/26/14 18:51	kya	
Selenium	6.5	5.0	mg/kg dry	EPA 6020	03/26/14 01:08	ERA	
Silver	4.6	1.0	mg/kg dry	EPA 6020	03/26/14 01:08	ERA	
Thallium	ND	25	mg/kg dry	EPA 6020	03/26/14 01:08	ERA	
Vanadium	78	5.0	mg/kg dry	EPA 6020	03/26/14 01:08	ERA	
Zinc	760	100	mg/kg dry	EPA 6010B	03/26/14 18:50	kya	



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Client Name: Victor Valley Reclamation Authority  
 Contact: Gina Cloutier  
 Address: 15776 Main St. Suite 3  
 Hesperia, CA 92345

Analytical Report: Page 4 of 10  
 Project Name: VVWRA-Biosolids Sample - Anr  
 Project Number: Routine

**Work Order Number: B4C1806**

Report Date: 11-Apr-2014

Received on Ice (Y/N): Yes Temp: 7 °C

Laboratory Reference Number  
**B4C1806-03**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
140318-22 Staged From Drying Bed #4-3 (Class A) Biosolids (6 Grab-Comp)	Sludge	03/18/14 13:35	03/18/14 15:57

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
<b>Anions</b>							
Nitrate as N	2.2	2.2	mg/kg dry	EPA 300.0	03/22/14 08:48	sze	N_WEX
<b>Solids</b>							
Total Solids	92	0.10	%	SM 2540G	03/19/14 10:15	mal	
<b>Nutrients</b>							
Nitrite as N	13	1.1	mg/kg dry	SM 4500NO2 B	03/21/14 16:20	ifs	N_WEX
Ammonia-Nitrogen	2500	220	mg/Kg* dry	SM4500NH3H	03/21/14 12:26	sll	N_WEX
Kjeldahl Nitrogen	33000	2200	mg/kg dry	EPA 351.2	03/28/14 15:15	sll	
Total Phosphorus	27000	54	mg/Kg* dry	EPA 6020	03/28/14 17:31	ERA	
<b>Metals and Metalloids; EPA SW846 Series</b>							
Antimony	ND	5.0	mg/kg dry	EPA 6020	03/26/14 01:12	ERA	
Arsenic	6.7	5.0	mg/kg dry	EPA 6020	03/26/14 01:12	ERA	
Barium	260	100	mg/kg dry	EPA 6010B	03/26/14 18:54	kya	
Beryllium	ND	1.0	mg/kg dry	EPA 6020	03/26/14 01:12	ERA	
Cadmium	1.1	1.0	mg/kg dry	EPA 6020	03/26/14 01:12	ERA	
Total Chromium	39	1.0	mg/kg dry	EPA 6020	03/26/14 01:12	ERA	
Cobalt	3.5	1.0	mg/kg dry	EPA 6020	03/26/14 01:12	ERA	
Copper	290	100	mg/kg dry	EPA 6010B	03/26/14 18:54	kya	
Lead	13	5.0	mg/kg dry	EPA 6020	03/26/14 01:12	ERA	
Mercury	0.52	0.22	mg/kg dry	EPA 7471A	03/24/14 16:23	mel	
Molybdenum	8.6	1.0	mg/kg dry	EPA 6020	03/26/14 01:12	ERA	
Nickel	17	0.10	mg/kg dry	EPA 6010B	03/26/14 18:55	kya	
Selenium	5.0	5.0	mg/kg dry	EPA 6020	03/26/14 01:12	ERA	
Silver	4.1	1.0	mg/kg dry	EPA 6020	03/26/14 01:12	ERA	
Thallium	ND	25	mg/kg dry	EPA 6020	03/26/14 01:12	ERA	
Vanadium	71	5.0	mg/kg dry	EPA 6020	03/26/14 01:12	ERA	
Zinc	700	100	mg/kg dry	EPA 6010B	03/26/14 18:54	kya	



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Client Name: Victor Valley Reclamation Authority  
 Contact: Gina Cloutier  
 Address: 15776 Main St. Suite 3  
 Hesperia, CA 92345

Analytical Report: Page 5 of 10  
 Project Name: VVWRA-Biosolids Sample - Anr  
 Project Number: Routine

**Work Order Number: B4C1806**

Report Date: 11-Apr-2014

Received on Ice (Y/N): Yes Temp: 7 °C

Laboratory Reference Number  
**B4C1806-04**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
140318-23 Staged From Drying Bed #4-5 (Class A) Biosolids (6 Grab-Comp)	Sludge	03/18/14 13:29	03/18/14 15:57

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
<b>Anions</b>							
Nitrate as N	200	11	mg/kg dry	EPA 300.0	04/03/14 04:37	aed	N_WEX
<b>Solids</b>							
Total Solids	95	0.10	%	SM 2540G	03/19/14 10:15	mal	
<b>Nutrients</b>							
Nitrite as N	1.7	1.1	mg/kg dry	SM 4500NO2 B	03/21/14 16:20	lfs	N_WEX
Ammonia-Nitrogen	2000	110	mg/Kg* dry	SM4500NH3H	03/21/14 12:28	sil	N_WEX
Kjeldahl Nitrogen	30000	2100	mg/kg dry	EPA 351.2	03/28/14 15:16	sil	
Total Phosphorus	25000	53	mg/Kg* dry	EPA 6020	03/28/14 17:34	ERA	
<b>Metals and Metalloids; EPA SW846 Series</b>							
Antimony	ND	5.0	mg/kg dry	EPA 6020	03/26/14 01:16	ERA	
Arsenic	6.3	5.0	mg/kg dry	EPA 6020	03/26/14 01:16	ERA	
Barium	230	100	mg/kg dry	EPA 6010B	03/26/14 18:58	kya	
Beryllium	ND	1.0	mg/kg dry	EPA 6020	03/26/14 01:16	ERA	
Cadmium	1.0	1.0	mg/kg dry	EPA 6020	03/26/14 01:16	ERA	
Total Chromium	37	1.0	mg/kg dry	EPA 6020	03/26/14 01:16	ERA	
Cobalt	3.1	1.0	mg/kg dry	EPA 6020	03/26/14 01:16	ERA	
Copper	290	100	mg/kg dry	EPA 6010B	03/26/14 18:58	kya	
Lead	11	5.0	mg/kg dry	EPA 6020	03/26/14 01:16	ERA	
Mercury	0.22	0.21	mg/kg dry	EPA 7471A	03/24/14 16:25	mel	
Molybdenum	8.8	1.0	mg/kg dry	EPA 6020	03/26/14 01:16	ERA	
Nickel	15	0.10	mg/kg dry	EPA 6010B	03/26/14 18:59	kya	
Selenium	ND	5.0	mg/kg dry	EPA 6020	03/26/14 01:16	ERA	
Silver	3.7	1.0	mg/kg dry	EPA 6020	03/26/14 01:16	ERA	
Thallium	ND	25	mg/kg dry	EPA 6020	03/26/14 01:16	ERA	
Vanadium	68	5.0	mg/kg dry	EPA 6020	03/26/14 01:16	ERA	
Zinc	660	100	mg/kg dry	EPA 6010B	03/26/14 18:58	kya	





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Client Name: Victor Valley Reclamation Authority  
 Contact: Gina Cloutier  
 Address: 15776 Main St. Suite 3  
 Hesperia, CA 92345

Analytical Report: Page 6 of 10  
 Project Name: VVWRA-Biosolids Sample - Ann  
 Project Number: Routine

**Work Order Number: B4C1806**

Report Date: 11-Apr-2014

Received on Ice (Y/N): Yes Temp: 7 °C

Laboratory Reference Number  
**B4C1806-05**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
140318-24 Staged From Drying Bed #4-7 (Class A) Biosolids (6 Grab-Comp)	Sludge	03/18/14 13:07	03/18/14 15:57

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
<b>Anions</b>							
Nitrate as N	14	11	mg/kg dry	EPA 300.0	04/03/14 04:50	aed	N_WEX
<b>Solids</b>							
Total Solids	94	0.10	%	SM 2540G	03/19/14 10:15	mal	
<b>Nutrients</b>							
Nitrite as N	ND	1.1	mg/kg dry	SM 4500NO2 B	03/21/14 16:20	lfs	N_WEX
Ammonia-Nitrogen	2600	210	mg/Kg* dry	SM4500NH3H	03/21/14 12:29	slj	N_WEX
Kjeldahl Nitrogen	41000	2100	mg/kg dry	EPA 351.2	03/28/14 15:17	slj	
Total Phosphorus	30000	53	mg/Kg* dry	EPA 6020	03/28/14 17:36	ERA	
<b>Metals and Metalloids; EPA SW846 Series</b>							
Antimony	ND	5.0	mg/kg dry	EPA 6020	03/27/14 15:41	ERA	
Arsenic	7.5	5.0	mg/kg dry	EPA 6020	03/27/14 15:41	ERA	
Barium	270	100	mg/kg dry	EPA 6010B	03/26/14 19:07	kya	
Beryllium	ND	1.0	mg/kg dry	EPA 6020	03/27/14 15:41	ERA	
Cadmium	1.4	1.3	mg/kg dry	EPA 6020	03/27/14 15:41	ERA	
Total Chromium	45	1.0	mg/kg dry	EPA 6020	04/06/14 16:47	AP	
Cobalt	2.7	2.0	mg/kg dry	EPA 6020	03/27/14 15:41	ERA	
Copper	370	100	mg/kg dry	EPA 6010B	03/26/14 19:07	kya	
Lead	32	10	mg/kg dry	EPA 6020	03/27/14 15:41	ERA	
Mercury	0.68	0.43	mg/kg dry	EPA 7471A	03/24/14 16:32	mel	
Molybdenum	11	2.0	mg/kg dry	EPA 6020	03/27/14 15:41	ERA	
Nickel	16	0.10	mg/kg dry	EPA 6010B	03/26/14 19:07	kya	
Selenium	7.0	5.0	mg/kg dry	EPA 6020	03/27/14 15:41	ERA	
Silver	5.2	2.0	mg/kg dry	EPA 6020	03/27/14 15:41	ERA	
Thallium	ND	25	mg/kg dry	EPA 6020	03/27/14 15:41	ERA	
Vanadium	90	10	mg/kg dry	EPA 6020	03/27/14 15:41	ERA	
Zinc	830	100	mg/kg dry	EPA 6010B	03/26/14 19:07	kya	



**BABCOCK Laboratories, Inc.**  
*The Standard of Excellence for Over 100 Years*

Client Name: Victor Valley Reclamation Authority  
 Contact: Gina Cloutier  
 Address: 15776 Main St. Suite 3  
 Hesperia, CA 92345

Analytical Report: Page 7 of 10  
 Project Name: VVWRA-Biosolids Sample - Anr  
 Project Number: Routine

**Work Order Number: B4C1806**

Report Date: 11-Apr-2014

Received on Ice (Y/N): Yes Temp: 7 °C

Laboratory Reference Number

**B4C1806-06**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
140318-25 Staged From Drying Bed #4-8 (Class A) Biosolids (6 Grab-Comp)	Sludge	03/18/14 13:14	03/18/14 15:57

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
<b>Anions</b>							
Nitrate as N	83	11	mg/kg dry	EPA 300.0	04/03/14 05:03	aed	N_WEX
<b>Solids</b>							
Total Solids	92	0.10	%	SM 2540G	03/19/14 10:15	mal	
<b>Nutrients</b>							
Nitrite as N	ND	1.1	mg/kg dry	SM 4500NO2 B	03/21/14 16:20	ifs	N_WEX
Ammonia-Nitrogen	1900	110	mg/Kg* dry	SM4500NH3H	03/21/14 12:31	sll	N_WEX
Kjeldahl Nitrogen	41000	2200	mg/kg dry	EPA 351.2	03/28/14 15:19	sll	
Total Phosphorus	27000	54	mg/Kg* dry	EPA 6020	03/28/14 17:38	ERA	
<b>Metals and Metalloids; EPA SW846 Series</b>							
Antimony	ND	5.0	mg/kg dry	EPA 6020	03/27/14 15:45	ERA	
Arsenic	8.5	5.0	mg/kg dry	EPA 6020	03/27/14 15:45	ERA	
Barium	290	100	mg/kg dry	EPA 6010B	03/26/14 19:11	kya	
Beryllium	ND	1.0	mg/kg dry	EPA 6020	03/27/14 15:45	ERA	
Cadmium	1.3	1.3	mg/kg dry	EPA 6020	03/27/14 15:45	ERA	
Total Chromium	45	1.0	mg/kg dry	EPA 6020	04/06/14 16:49	AP	
Cobalt	3.5	2.0	mg/kg dry	EPA 6020	03/27/14 15:45	ERA	
Copper	370	100	mg/kg dry	EPA 6010B	03/26/14 19:11	kya	
Lead	14	10	mg/kg dry	EPA 6020	03/27/14 15:45	ERA	
Mercury	0.77	0.43	mg/kg dry	EPA 7471A	03/24/14 16:48	mel	
Molybdenum	11	2.0	mg/kg dry	EPA 6020	03/27/14 15:45	ERA	
Nickel	18	0.10	mg/kg dry	EPA 6010B	03/26/14 19:11	kya	
Selenium	6.8	5.0	mg/kg dry	EPA 6020	03/27/14 15:45	ERA	
Silver	4.9	2.0	mg/kg dry	EPA 6020	03/27/14 15:45	ERA	
Thallium	ND	25	mg/kg dry	EPA 6020	03/27/14 15:45	ERA	
Vanadium	92	10	mg/kg dry	EPA 6020	03/27/14 15:45	ERA	
Zinc	810	100	mg/kg dry	EPA 6010B	03/26/14 19:11	kya	



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Client Name: Victor Valley Reclamation Authority  
 Contact: Gina Cloutier  
 Address: 15776 Main St. Suite 3  
 Hesperia, CA 92345

Analytical Report: Page 8 of 10  
 Project Name: VVWRA-Biosolids Sample - Arr  
 Project Number: Routine

Report Date: 11-Apr-2014

**Work Order Number: B4C1806**

Received on Ice (Y/N): Yes Temp: 7 °C

Laboratory Reference Number  
**B4C1806-07**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
140318-26 Staged From Drying Bed #4-10 (Class A) Biosolids (6 Grab-Comp)	Sludge	03/18/14 14:02	03/18/14 15:57

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
<b>Anions</b>							
Nitrate as N	ND	2.1	mg/kg dry	EPA 300.0	03/22/14 09:41	sze	N_WEX
<b>Solids</b>							
Total Solids	94	0.10	%	SM 2540G	03/19/14 10:15	mal	
<b>Nutrients</b>							
Nitrite as N	2.8	1.1	mg/kg dry	SM 4500NO2 B	03/21/14 16:20	lfs	N_WEX
Ammonia-Nitrogen	1400	110	mg/Kg* dry	SM4500NH3H	03/21/14 12:33	sll	N_WEX
Kjeldahl Nitrogen	28000	2100	mg/kg dry	EPA 351.2	03/28/14 15:20	sll	
Total Phosphorus	24000	53	mg/Kg* dry	EPA 6020	03/28/14 17:40	ERA	
<b>Metals and Metalloids; EPA SW846 Series</b>							
Antimony	ND	5.0	mg/kg dry	EPA 6020	03/26/14 01:40	ERA	
Arsenic	8.2	5.0	mg/kg dry	EPA 6020	03/26/14 01:40	ERA	
Barium	250	100	mg/kg dry	EPA 6010B	03/26/14 19:15	kya	
Beryllium	ND	1.0	mg/kg dry	EPA 6020	03/26/14 01:40	ERA	
Cadmium	1.1	1.0	mg/kg dry	EPA 6020	03/26/14 01:40	ERA	
Total Chromium	40	1.0	mg/kg dry	EPA 6020	03/26/14 01:40	ERA	
Cobalt	3.1	1.0	mg/kg dry	EPA 6020	03/26/14 01:40	ERA	
Copper	340	100	mg/kg dry	EPA 6010B	03/26/14 19:15	kya	
Lead	12	5.0	mg/kg dry	EPA 6020	03/26/14 01:40	ERA	
Mercury	0.34	0.21	mg/kg dry	EPA 7471A	03/24/14 16:40	mel	
Molybdenum	9.6	1.0	mg/kg dry	EPA 6020	03/26/14 01:40	ERA	
Nickel	18	0.10	mg/kg dry	EPA 6010B	03/26/14 19:15	kya	
Selenium	5.5	5.0	mg/kg dry	EPA 6020	03/26/14 01:40	ERA	
Silver	4.7	1.0	mg/kg dry	EPA 6020	03/26/14 01:40	ERA	
Thallium	ND	25	mg/kg dry	EPA 6020	03/26/14 01:40	ERA	
Vanadium	72	5.0	mg/kg dry	EPA 6020	03/26/14 01:40	ERA	
Zinc	700	100	mg/kg dry	EPA 6010B	03/26/14 19:15	kya	



**BABCOCK Laboratories, Inc.**  
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Client Name: Victor Valley Reclamation Authority  
 Contact: Gina Cloutier  
 Address: 15776 Main St. Suite 3  
 Hesperia, CA 92345

Analytical Report: Page 9 of 10  
 Project Name: VVWRA-Biosolids Sample - Anr  
 Project Number: Routine

Report Date: 11-Apr-2014

**Work Order Number: B4C1806**

Received on Ice (Y/N): Yes Temp: 7 °C

Laboratory Reference Number

**B4C1806-08**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
140318-27 Staged From Drying Bed #4-11 (Class A) Biosolids (6 Grab-Comp)	Sludge	03/18/14 13:54	03/18/14 15:57

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
<b>Anions</b>							
Nitrate as N	230	12	mg/kg dry	EPA 300.0	04/03/14 05:17	aed	N_WEX
<b>Solids</b>							
Total Solids	86	0.10	%	SM 2540G	03/19/14 10:15	mal	
<b>Nutrients</b>							
Nitrite as N	5.5	1.2	mg/kg dry	SM 4500NO2 B	03/21/14 16:20	lfs	N_WEX
Ammonia-Nitrogen	2600	230	mg/Kg* dry	SM4500NH3H	03/21/14 12:34	sll	N_WEX
Kjeldahl Nitrogen	35000	2300	mg/kg dry	EPA 351.2	03/28/14 15:22	sll	
Total Phosphorus	31000	58	mg/Kg* dry	EPA 6020	03/28/14 17:42	ERA	
<b>Metals and Metalloids; EPA SW846 Series</b>							
Antimony	ND	5.0	mg/kg dry	EPA 6020	03/26/14 01:43	ERA	
Arsenic	7.8	5.0	mg/kg dry	EPA 6020	03/26/14 01:43	ERA	
Barium	270	100	mg/kg dry	EPA 6010B	03/26/14 19:19	kya	
Beryllium	ND	1.0	mg/kg dry	EPA 6020	03/26/14 01:43	ERA	
Cadmium	1.2	1.0	mg/kg dry	EPA 6020	03/26/14 01:43	ERA	
Total Chromium	44	1.0	mg/kg dry	EPA 6020	03/26/14 01:43	ERA	
Cobalt	3.2	1.0	mg/kg dry	EPA 6020	03/26/14 01:43	ERA	
Copper	330	100	mg/kg dry	EPA 6010B	03/26/14 19:19	kya	
Lead	12	5.0	mg/kg dry	EPA 6020	03/26/14 01:43	ERA	
Mercury	0.78	0.46	mg/kg dry	EPA 7471A	03/24/14 16:46	mel	
Molybdenum	10	1.0	mg/kg dry	EPA 6020	03/26/14 01:43	ERA	
Nickel	18	0.10	mg/kg dry	EPA 6010B	03/26/14 19:19	kya	
Selenium	6.0	5.0	mg/kg dry	EPA 6020	03/26/14 01:43	ERA	
Silver	4.6	1.0	mg/kg dry	EPA 6020	03/26/14 01:43	ERA	
Thallium	ND	25	mg/kg dry	EPA 6020	03/26/14 01:43	ERA	
Vanadium	77	5.0	mg/kg dry	EPA 6020	03/26/14 01:43	ERA	
Zinc	770	100	mg/kg dry	EPA 6010B	03/26/14 19:19	kya	



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Client Name: Victor Valley Reclamation Authority  
 Contact: Gina Cloutier  
 Address: 15776 Main St. Suite 3  
 Hesperia, CA 92345

Analytical Report: Page 10 of 10  
 Project Name: VVWRA-Biosolids Sample - Anr  
 Project Number: Routine

**Work Order Number: B4C1806**

Report Date: 11-Apr-2014

Received on Ice (Y/N): Yes Temp: 7 °C

**Notes and Definitions**

N\_WEX Analyte determined on a 1:10 water extract from the sample.

ND: Analyte NOT DETECTED at or above the Method Detection Limit (if MDL is reported), otherwise at or above the Reportable Detection Limit (RDL)

NR: Not Reported

RDL: Reportable Detection Limit

MDL: Method Detection Limit

\* / " : NELAP does not offer accreditation for this analyte/method/matrix combination

**Approval**

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted. Babcock Laboratories and its officers and employees assume no responsibility and make no warranty, express or implied, for uses or interpretations made by any recipients, intended or unintended, of this report.

Digitally signed by: Cindy Waddell  
 DN: CN = Cindy Waddell C = US O = Babcock  
 Laboratories OU = Project Manager Assistant  
 Date: 2014.04.11 13:30:57 -07'00'

cc:

*mailing*  
 P.O. Box 432  
 Riverside, CA 92502-0432

*location*  
 6100 Quail Valley Court  
 Riverside, CA 92507-0704

P 951 653 3351  
 F 951 653 1662  
 www.babcocklabs.com

e-Short\_No Alias

NELAP no. 02101CA  
 CA Elap no. 2698  
 EPA no. CA00102



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Client Name: Victor Valley Reclamation Authority  
Contact: Gina Cloutier  
Address: 15776 Main St. Suite 3  
Hesperia, CA 92345

Analytical Report: Page 1 of 2  
Project Name: VVWRA-Biosolids Sample - Ann  
Project Number: Routine

**Work Order Number: B4C1806**

Report Date: 11-Apr-2014

Received on Ice (Y/N): Yes Temp: 7 °C

**SUBCONTRACT LABORATORY CHAIN OF CUSTODY AND ANALYSIS REQUEST RECORD**



**Victor Valley Wastewater Reclamation Authority**  
A Joint Powers Authority and Public Agency of the State of California  
Plant Address: 20111 Shay Road · Victorville, CA 92394 · TEL: (760) 246-8638 FAX: (760) 246-5440  
Administration Office Address: 15776 Main Street, Suite 3 · Hesperia, CA 92345 · TEL: (760) 948-9849  
Website: [www.vvwra.com](http://www.vvwra.com) E-mail: [gcloutier@vvwra.com](mailto:gcloutier@vvwra.com)

Project Name: Biosolids Sample - Routine	Sample Type		Laboratory Analyses Requested										Sample Preservation Methods							
	Grab	Composite	Ammonia-N	Nitrite-N	Nitrate-N	Total Phosphate-P	CAM Metals	% Total Solids	Total # of Containers	H <sub>2</sub> SO <sub>4</sub> pH < 2	Refrigeration	Sample Matrix (W, D, V, GW, SG)								
Project Contact: Gina Cloutier (760) 246-8638 ext. 216																				
Sampler Name: <b>BRAD ADAMS</b>																				
Sampler Signature: <i>Brad Adams</i>																				
VVWRA ID #	Sample Location/Description	Sample Date	Sample Time											Date/Time	Received By (Sign)					
140318-21	Staged From Drying Bed # 4 - 1 (Class A) Biosolids (6 Grab-Comp)	3/18/14	1312	X	X	X	X	X	X	X	X	X	X	X	X	X	X	3-18 14:25	<i>Gina Cloutier</i> Company: VVWRA	
140318-21	Staged From Drying Bed # 4 - 2 (Class A) Biosolids (6 Grab-Comp)	3/18/14	1318	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
140318-21	Staged From Drying Bed # 4 - 3 (Class A) Biosolids (6 Grab-Comp)	3/18/14	1315	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
140318-21	Staged From Drying Bed # 4 - 5 (Class A) Biosolids (6 Grab-Comp)	3/18/14	1329	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
140318-21	Staged From Drying Bed # 4 - 7 (Class A) Biosolids (6 Grab-Comp)	3/18/14	1307	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
140318-21	Staged From Drying Bed # 4 - 8 (Class A) Biosolids (6 Grab-Comp)	3/18/14	1314	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
140318-21	Staged From Drying Bed # 4 - 10 (Class A) Biosolids (6 Grab-Comp)	3/18/14	1402	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
Relinquished By (Sign): <i>Brad Adams</i> Company: VVWRA	Date/Time: 3-18-14	Received By (Sign): <i>Gina Cloutier</i> Company: VVWRA	Relinquished By (Sign): <i>Gina Cloutier</i> Company: VVWRA	Date/Time: 3-18-14	Received By (Sign): <i>Gina Cloutier</i> Company: VVWRA											Date/Time: 3-18-14	Received By (Sign): <i>Gina Cloutier</i> Company: VVWRA			
Relinquished By (Sign): <i>Gina Cloutier</i> Company: VVWRA	Date/Time: 3-18-14	Received By (Sign): <i>Gina Cloutier</i> Company: VVWRA	Relinquished By (Sign): <i>Gina Cloutier</i> Company: VVWRA	Date/Time: 3-18-14	Received By (Sign): <i>Gina Cloutier</i> Company: VVWRA											Date/Time: 3-18-14	Received By (Sign): <i>Gina Cloutier</i> Company: VVWRA			
Sample Condition Upon Receipt by Laboratory: Samples Received on Ice? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Samples Received Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Temperature _____ °C																	Laboratory Notes Report as dry wt.		Samples sent via courier to: E.S. Babcock Laboratories Lab # <b>B4C1806</b>	

Please Fax a copy of the completed Chain of Custody document to: Gina Cloutier, VVWRA at (760) 246-5440

**MAR 18 2014**







# BIOSOLIDS SAMPLE DATA SHEET

(Please fill out applicable areas, sign and return to BioVir with the sample)  
Phone: 1-800-GIARDIA Fax: 707-747-1751 WEB: www.biovir.com  
Note: Please print clearly using waterproof ink.

LAB USE ONLY:
LIMS #: 384-1
Client #: VTC 001
Date Rec'd: 3/19/14
Time Rec'd: 09:40
Temp: 2.5°C

COMPANY NAME & ADDRESS Victor Valley Waste Water Reclamation Authority 15776 Main St. Suite #3, Arden, CA 92315		DATE OF SAMPLING 3-18-14
Contact Name: Gina Claudio / Chris Wills Tel: 760-246-8638 x216		TIME OF SAMPLING 1342
NAME OF SAMPLER Brad Adams	SAMPLE ID 140318-20	
LOCATION OF SAMPLING Dixing Bed #4-1	TYPE OF SAMPLE 6 GRAB COMPOSITE	
TREATMENT CHARACTERISTICS CLASS-A Anaerobic digested	TOTAL SOLIDS PERCENTAGE: %	
SAMPLE VOLUME (WET WEIGHT) ~ 300 grams	(MUST BE INCLUDED IN ORDER TO BEGIN ANALYSIS)	

HOLD TIMES (Store and ship cold)	ENTERIC VIRUS	HELMINTH OVA	SALMONELLA	FECAL COLIFORM
	2 Weeks	1 Month	6 Hours*	8 Hours*

439.43g

\* Fecal Coliform - Language Extracted from EPA Fecal Coliform (Biosolids) Method 1681 (July 2006): For fecal coliform samples for sewage sludge (biosolids) only, the holding time is extended to 24 hours for the following sample types using either EPA Method 1680 (LTB-EC) or 1681 (A-1): Class A composted, Class B aerobically digested, and Class B anaerobically digested. All other matrices should be analyzed within 8 hours of sample collection, 6 hour maximum transport and 2 hours for sample processing. Note: Adherence to sample handling procedures and holding time limits is critical to the production of valid data. Sample results will be considered invalid if these conditions are not met.

Salmonella - Language Extracted from EPA Salmonella (Biosolids) Method 1682 (July 2006): Analyses should begin immediately, preferably, within 2 hours of collection. If it is impossible to examine samples within 2 hours, samples must be maintained at <10°C until analysis. Samples must not be frozen. Sample analysis must begin within 6 hours unless otherwise specified in the Code of Federal Regulations Part 503. Note: Adherence to sample handling procedures and holding time limits is critical to the production of valid data. Sample results will be considered invalid if these conditions are not met.

A holding time variance is allowed from your Regional Administrator under Section 136.3(e). Please refer to the Final Rule for details.

<input checked="" type="checkbox"/> OK TO RUN PAST HOLD TIME - (up to 24 hrs from sampling for bacterial analysis)  <input type="checkbox"/> SAMPLE COMPRISED OF CLASS A COMPOSTED, CLASS B AEROBICALLY OR ANAEROBICALLY DIGESTED BIOSOLIDS (FECAL COLIFORM TEST ONLY)	Print Name: Chris Wills	Date: 3-18-14
	Signature: 	

ASSAY(S) TO BE PERFORMED - (PLEASE CHECK)					
ANALYTICAL STANDARD	ENTERIC VIRUS ASTM D 4994-89	HELMINTH OVA EPA 625/R-92/013	SALMONELLA EPA 1682	FECAL COLIFORM EPA 1681	TOTAL SOLIDS EPA 1684
CLASS "A"	X	X	X	X	X
CLASS "B"					

COMMENTS

rec'd w/ no insulation - inc

RELINQUISHED BY (SIGNED)	RECEIVED BY (SIGNED)	DATE	TIME
		3/19/14	09:40

SHIPPING ADDRESS: BIOVIR LABORATORIES, INC., 685 STONE ROAD, UNIT 6, BENICIA CALIFORNIA 94510





# BIOSOLIDS SAMPLE DATA SHEET

(Please fill out applicable areas, sign and return to BioVir with the sample)  
Phone: 1-800-GIARDIA Fax: 707-747-1751 WEB [www.biovir.com](http://www.biovir.com)  
Note: Please print clearly using waterproof ink.

LAB USE ONLY:	
LIMS #:	384-2
Client #:	VIC 091
Date Rec'd:	3/19/14
Time Rec'd:	09:40
Temp:	2.5°C

COMPANY NAME & ADDRESS Victor Valley Wastewater Reclamation Authority 15776 Main St. Suite #3, Hesperia, CA 92345 Contact Name: Gina Christie / Chris Wells Tel: 760 246-8638 x216	DATE OF SAMPLING: 3-18-14
NAME OF SAMPLER: Brad Adams	TIME OF SAMPLING: 1348
LOCATION OF SAMPLING: Deying Bed #4-2	SAMPLE ID: 140318-21
TREATMENT CHARACTERISTICS: CLASS-A Anaerobic digested	TYPE OF SAMPLE: 6 GRAB COMPOSITE
SAMPLE VOLUME (WET WEIGHT): ~ 300 grams	TOTAL SOLIDS PERCENTAGE: % (MUST BE INCLUDED IN ORDER TO BEGIN ANALYSIS)

HOLD TIMES (Store and ship cold)	ENTERIC VIRUS	HELMINTH OVA	SALMONELLA	FECAL COLIFORM
	2 Weeks	1 Month	6 Hours*	8 Hours*

439.43 g.

\* Fecal Coliform - Language Extracted from EPA Fecal Coliform (Biosolids) Method 1681 (July 2006): For fecal coliform samples for sewage sludge (biosolids) only, the holding time is extended to 24 hours for the following sample types using either EPA Method 1680 (LTB-EC) or 1681 (A-1) Class A composted, Class B aerobically digested, and Class B anaerobically digested. All other matrices should be analyzed within 8 hours of sample collection, 6 hour maximum transport and 2 hours for sample processing. Note: Adherence to sample handling procedures and holding time limits is critical to the production of valid data. Sample results will be considered invalid if these conditions are not met.

Salmonella - Language Extracted from EPA Salmonella (Biosolids) Method 1682 (July 2006): Analyses should begin immediately, preferably, within 2 hours of collection. If it is impossible to examine samples within 2 hours, samples must be maintained at <10°C until analysis. Samples must not be frozen. Sample analysis must begin within 6 hours unless otherwise specified in the Code of Federal Regulations Part 503. Note: Adherence to sample handling procedures and holding time limits is critical to the production of valid data. Sample results will be considered invalid if these conditions are not met. A holding time variance is allowed from your Regional Administrator under Section 136.3(e). Please refer to the Final Rule for details.

<input checked="" type="checkbox"/> OK TO RUN PAST HOLD TIME - (up to 24 hrs from sampling for bacterial analysis)  <input type="checkbox"/> SAMPLE COMPRISED OF CLASS A COMPOSTED, CLASS B AEROBICALLY OR ANAEROBICALLY DIGESTED BIOSOLIDS (FECAL COLIFORM TEST ONLY).	Print Name: Chris Wells	Date: 3-18-14
	Signature: 	Date: 3-18-14

ASSAY(S) TO BE PERFORMED - (PLEASE CHECK)					
ANALYTICAL STANDARD	ENTERIC VIRUS ASTM D 4994-89	HELMINTH OVA EPA 625/R-92/013	SALMONELLA EPA 1682	FECAL COLIFORM EPA 1681	TOTAL SOLIDS EPA 1684
CLASS "A"	X	X	X	X	X
CLASS "B"					

COMMENTS:

rec'd w/ no insulation

RELINQUISHED BY (SIGNED)	RECEIVED BY (SIGNED)	DATE	TIME
		3/19/14	09:40

SHIPPING ADDRESS: BIOVIR LABORATORIES, INC., 685 STONE ROAD, UNIT 6, BENICIA CALIFORNIA 94510





# BIOSOLIDS SAMPLE DATA SHEET

(Please fill out applicable areas, sign and return to BioVir with the sample)  
Phone: 1-800-GIARDIA Fax: 707-747-1751 WEB [www.biovir.com](http://www.biovir.com)  
Note: Please print clearly using waterproof ink.

**LAB USE ONLY:**  
LIMS #: 384-3  
Client #: YTC 001  
Date Rec'd: 3/19/14  
Time Rec'd: 09:40  
Temp: 2.5°C

COMPANY NAME & ADDRESS: <u>Victor Valley Waste Water Reclamation Authority</u> <u>15776 Main St. Suite #3, Hesperia, Ca 92345</u>		DATE OF SAMPLING: <u>3-18-14</u>
Contact Name: <u>Chris Wills / Chris Wills</u> Tel: <u>760-246-8638 x216</u>		TIME OF SAMPLING: <u>1335</u>
NAME OF SAMPLER: <u>Brad Adams</u>	SAMPLE ID: <u>140318-22</u>	
LOCATION OF SAMPLING: <u>Drying Bed #4-3</u>	TYPE OF SAMPLE: <u>6 GRAB</u> COMPOSITE	
TREATMENT CHARACTERISTICS: <u>Class A Anaerobically Digested</u>	TOTAL SOLIDS PERCENTAGE: _____ % <small>(MUST BE INCLUDED IN ORDER TO BEGIN ANALYSIS)</small>	
SAMPLE VOLUME (WET WEIGHT): <u>~300 grams</u>		

HOLD TIMES (Store and ship cold)	ENTERIC VIRUS	HELMINTH OVA	SALMONELLA	FECAL COLIFORM
		2 Weeks	1 Month	6 Hours*

290.59 g

\* Fecal Coliform - Language Extracted from EPA Fecal Coliform (Biosolids) Method 1681 (July 2006): For fecal coliform samples for sewage sludge (biosolids) only, the holding time is extended to 24 hours for the following sample types using either EPA Method 1680 (LTB-EC) or 1681 (A-1) Class A composted, Class B aerobically digested, and Class B anaerobically digested. All other matrices should be analyzed within 8 hours of sample collection, 6 hour maximum transport and 2 hours for sample processing. Note: Adherence to sample handling procedures and holding time limits is critical to the production of valid data. Sample results will be considered invalid if these conditions are not met.

Salmonella - Language Extracted from EPA Salmonella (Biosolids) Method 1682 (July 2006): Analyses should begin immediately, preferably, within 2 hours of collection. If it is impossible to examine samples within 2 hours, samples must be maintained at <10°C until analysis. Samples must not be frozen. Sample analysis must begin within 6 hours unless otherwise specified in the Code of Federal Regulations Part 503. Note: Adherence to sample handling procedures and holding time limits is critical to the production of valid data. Sample results will be considered invalid if these conditions are not met.

A holding time variance is allowed from your Regional Administrator under Section 136.3(e). Please refer to the Final Rule for details.

<input checked="" type="checkbox"/> OK TO RUN PAST HOLD TIME - (up to 24 hrs from sampling for bacterial analysis)  <input type="checkbox"/> SAMPLE COMPRISED OF CLASS A COMPOSTED, CLASS B AEROBICALLY OR ANAEROBICALLY DIGESTED BIOSOLIDS (FECAL COLIFORM TEST ONLY).	Print Name: <u>Chris Wills</u>	Date: <u>3-18-14</u>
	Signature: 	

ASSAY(S) TO BE PERFORMED - (PLEASE CHECK)					
ANALYTICAL STANDARD	ENTERIC VIRUS ASTM D 4994-89	HELMINTH OVA EPA 625/R-92/013	SALMONELLA EPA 1682	FECAL COLIFORM EPA 1681	TOTAL SOLIDS EPA 1684
CLASS "A"	X	X	X	X	X
CLASS "B"					

COMMENTS

rec'd w/ no insulation jmc

RELINQUISHED BY (SIGNED)	RECEIVED BY (SIGNED)	DATE	TIME
		<u>3/19/14</u>	<u>09:40</u>

SHIPPING ADDRESS: BIOVIR LABORATORIES, INC., 685 STONE ROAD, UNIT 6, BENICIA CALIFORNIA 94510





# BIOSOLIDS SAMPLE DATA SHEET

(Please fill out applicable areas, sign and return to BioVir with the sample.)  
Phone: 1-800-GIARDIA Fax: 707-747-1751 WEB [www.biovir.com](http://www.biovir.com)  
Note: Please print clearly using waterproof ink.

**LAB USE ONLY:**  
LIMS # 384-4  
Client # VTC 001  
Date Rec'd 3/19/14  
Time Rec'd 09:40  
Temp 2.5°C

COMPANY NAME & ADDRESS: <u>Victor Valley Waste under Reclamation Authority</u> <u>15776 Main St. Suite #3, Hesperia, Ca 92345</u>		DATE OF SAMPLING: <u>3-18-14</u>
Contact Name: <u>Gina Christie / Chris Will</u> Tel: <u>760 246 8638 x216</u>		TIME OF SAMPLING: <u>1329</u>
NAME OF SAMPLER: <u>Brad Adams</u>	SAMPLE ID: <u>140318-23</u>	
LOCATION OF SAMPLING: <u>Dixiey Bed #4-5</u>	TYPE OF SAMPLE: <u>6 GRAB</u> COMPOSITE	
TREATMENT CHARACTERISTICS: <u>CLASS A Anaerobic Digested</u>	TOTAL SOLIDS PERCENTAGE	
SAMPLE VOLUME (WET WEIGHT) <u>~300 grams</u>	%(MUST BE INCLUDED IN ORDER TO BEGIN ANALYSIS)	

HOLD TIMES (Store and ship cold)	ENTERIC VIRUS	HELMINTH OVA	SALMONELLA	FECAL COLIFORM
	2 Weeks	1 Month	6 Hours*	8 Hours*

552.839

\* Fecal Coliform - Language Extracted from EPA Fecal Coliform (Biosolids) Method 1681 (July 2006): For fecal coliform samples for sewage sludge (biosolids) only, the holding time is extended to 24 hours for the following sample types using either EPA Method 1680 (LTB-EC) or 1681 (A-1) Class A composted, Class B aerobically digested, and Class B anaerobically digested. All other matrices should be analyzed within 8 hours of sample collection, 6 hour maximum transport and 2 hours for sample processing. Note: Adherence to sample handling procedures and holding time limits is critical to the production of valid data. Sample results will be considered invalid if these conditions are not met.

Salmonella - Language Extracted from EPA Salmonella (Biosolids) Method 1682 (July 2006): Analyses should begin immediately, preferably, within 2 hours of collection. If it is impossible to examine samples within 2 hours, samples must be maintained at <10°C until analysis. Samples must not be frozen. Sample analysis must begin within 8 hours unless otherwise specified in the Code of Federal Regulations Part 503. Note: Adherence to sample handling procedures and holding time limits is critical to the production of valid data. Sample results will be considered invalid if these conditions are not met. A holding time variance is allowed from your Regional Administrator under Section 136.3(e). Please refer to the Final Rule for details.

<input checked="" type="checkbox"/> OK TO RUN PAST HOLD TIME - (up to 24 hrs from sampling for bacterial analysis)  <input type="checkbox"/> SAMPLE COMPRISED OF CLASS A COMPOSTED, CLASS B AEROBICALLY OR ANAEROBICALLY DIGESTED BIOSOLIDS (FECAL COLIFORM TEST ONLY).	Print Name: <u>Chris Will</u>	<u>3-18-14</u>
	Signature: 	Date

ASSAY(S) TO BE PERFORMED - (PLEASE CHECK)					
ANALYTICAL STANDARD	ENTERIC VIRUS ASTM D 4994-89	HELMINTH OVA EPA 625/R-92/013	SALMONELLA EPA 1682	FECAL COLIFORM EPA 1681	TOTAL SOLIDS EPA 1684
CLASS 'A'	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
CLASS 'B'					

COMMENTS

rec'd w/no insulation - Inc

RELINQUISHED BY (SIGNED)	RECEIVED BY (SIGNED)	DATE	TIME
	<u>Jane</u>	<u>3/19/14</u>	<u>09:40</u>

SHIPPING ADDRESS: BIOVIR LABORATORIES, INC., 685 STONE ROAD, UNIT 6, BENICIA CALIFORNIA 94510





# BIOSOLIDS SAMPLE DATA SHEET

(Please fill out applicable areas, sign and return to BioVir with the sample)  
Phone: 1-800-GIARDIA Fax: 707-747-1751 WEB [www.biovir.com](http://www.biovir.com)  
Note: Please print clearly using waterproof ink.

LAB USE ONLY:	
LIMS #	384-5
Client #	VIC 001
Date Rec'd	3/19/14
Time Rec'd	09:40
TEMP	2.5°C

COMPANY NAME & ADDRESS Victor Valley Waste Water Reclamation Authority 15776 Main St. Suite #3, Hesperia, Ca 92345 Contact Name: Gina Chudic / Chris Wills Tel: 760-246-8638 x216		DATE OF SAMPLING 3-18-14
NAME OF SAMPLER Brad Adams		TIME OF SAMPLING 1307
LOCATION OF SAMPLING Drying Bed # 4-7		SAMPLE ID 140318-24
TREATMENT CHARACTERISTICS CLASS A Anaerobic Digestion		TYPE OF SAMPLE 6 GRAB COMPOSITE
SAMPLE VOLUME (WET WEIGHT) ~ 300 gram.		TOTAL SOLIDS PERCENTAGE % (MUST BE INCLUDED IN ORDER TO BEGIN ANALYSIS)

HOLD TIMES (Store and ship cold)	ENTERIC VIRUS	HELMINTH OVA	SALMONELLA	FECAL COLIFORM
	2 Weeks	1 Month	6 Hours*	8 Hours*

318.94g.

\* **Fecal Coliform** - Language Extracted from EPA Fecal Coliform (Biosolids) Method 1681 (July 2006): For fecal coliform samples for sewage sludge (biosolids) only, the holding time is extended to 24 hours for the following sample types using either EPA Method 1680 (LTB-EC) or 1681 (A-1) Class A composted, Class B aerobically digested, and Class B anaerobically digested. All other matrices should be analyzed within 8 hours of sample collection, 6 hour maximum transport and 2 hours for sample processing. Note: Adherence to sample handling procedures and holding time limits is critical to the production of valid data. Sample results will be considered invalid if these conditions are not met.

**Salmonella** - Language Extracted from EPA Salmonella (Biosolids) Method 1682 (July 2006): Analyses should begin immediately, preferably, within 2 hours of collection. If it is impossible to examine samples within 2 hours, samples must be maintained at <10°C until analysis. Samples must not be frozen. Sample analysis must begin within 6 hours unless otherwise specified in the Code of Federal Regulations Part 503. Note: Adherence to sample handling procedures and holding time limits is critical to the production of valid data. Sample results will be considered invalid if these conditions are not met.

A holding time variance is allowed from your Regional Administrator under Section 136.3(e). Please refer to the Final Rule for details.

<input checked="" type="checkbox"/> OK TO RUN PAST HOLD TIME - (up to 24 hrs from sampling for bacterial analysis)  <input type="checkbox"/> SAMPLE COMPRISED OF CLASS A COMPOSTED, CLASS B AEROBICALLY OR ANAEROBICALLY DIGESTED BIOSOLIDS (FECAL COLIFORM TEST ONLY).	Print Name: Chris Wills	3-18-14
	Signature: 	Date

ASSAY(S) TO BE PERFORMED - (PLEASE CHECK)					
ANALYTICAL STANDARD	ENTERIC VIRUS ASTM D 4994-89	HELMINTH OVA EPA 625/R-92/013	SALMONELLA EPA 1682	FECAL COLIFORM EPA 1681	TOTAL SOLIDS EPA 1684
CLASS 'A'	X	X	X	X	X
CLASS 'B'					

COMMENTS:

rec'd w/no insulation

RELINQUISHED BY (SIGNED)	RECEIVED BY (SIGNED)	DATE	TIME
		3/19/14	09:40

SHIPPING ADDRESS: BIOVIR LABORATORIES, INC. 685 STONE ROAD, UNIT 6, BENICIA CALIFORNIA 94510





# BIOSOLIDS SAMPLE DATA SHEET

(Please fill out applicable areas, sign and return to BioVir with the sample)  
Phone: 1-800-GIARDIA Fax: 707-747-1751 WEB: www.biovir.com  
Note: Please print clearly using waterproof ink.

**LAB USE ONLY:**  
LIMS #: 38846  
Client #: YTC 001  
Date Rec'd: 3/19/14  
Time Rec'd: 09:40  
Temp: 2.5°C

COMPANY NAME & ADDRESS Victor Valley Waste Water Reclamation Authority 15776 Main St. Suite #3, Hesperia, Ca 92345		DATE OF SAMPLING: 3-18-14
Contact Name: Gina Chedier / Chris Wills Tel: 760-296-8638 x216		TIME OF SAMPLING: 1314
NAME OF SAMPLER: Brad Adams	SAMPLE ID: 140518-25	
LOCATION OF SAMPLING: Drying Bed # 4-8	TYPE OF SAMPLE: 6 GRAB COMPOSITE	
TREATMENT CHARACTERISTICS: CLASS A Anaerobic digested	TOTAL SOLIDS PERCENTAGE: %	
SAMPLE VOLUME (WET WEIGHT): ~300 grams	(MUST BE INCLUDED IN ORDER TO BEGIN ANALYSIS)	

HOLD TIMES (Store and ship cold)	ENTERIC VIRUS	HELMINTH OVA	SALMONELLA	FECAL COLIFORM
	2 Weeks	1 Month	6 Hours*	8 Hours*

311.85g.

\* Fecal Coliform - Language Extracted from EPA Fecal Coliform (Biosolids) Method 1681 (July 2006): For fecal coliform samples for sewage sludge (biosolids) only, the holding time is extended to 24 hours for the following sample types using either EPA Method 1680 (LTB-EC) or 1681 (A-1) Class A composted, Class B aerobically digested, and Class B anaerobically digested. All other matrices should be analyzed within 8 hours of sample collection, 6 hour maximum transport and 2 hours for sample processing. Note: Adherence to sample handling procedures and holding time limits is critical to the production of valid data. Sample results will be considered invalid if these conditions are not met.

Salmonella - Language Extracted from EPA Salmonella (Biosolids) Method 1682 (July 2006): Analyses should begin immediately, preferably, within 2 hours of collection. If it is impossible to examine samples within 2 hours, samples must be maintained at <10°C until analysis. Samples must not be frozen. Sample analysis must begin within 6 hours unless otherwise specified in the Code of Federal Regulations Part 503. Note: Adherence to sample handling procedures and holding time limits is critical to the production of valid data. Sample results will be considered invalid if these conditions are not met. A holding time variance is allowed from your Regional Administrator under Section 136.3(e). Please refer to the Final Rule for details.

<input checked="" type="checkbox"/> OK TO RUN PAST HOLD TIME - (up to 24 hrs from sampling for bacterial analysis)	Print Name: Chris Wills	5-18-14
<input type="checkbox"/> SAMPLE COMPRISED OF CLASS A COMPOSTED, CLASS B AEROBICALLY OR ANAEROBICALLY DIGESTED BIOSOLIDS (FECAL COLIFORM TEST ONLY).	Signature: [Signature]	Date

ASSAY(S) TO BE PERFORMED - (PLEASE CHECK)					
ANALYTICAL STANDARD	ENTERIC VIRUS ASTM D 4994-89	HELMINTH OVA EPA 625/R-92/013	SALMONELLA EPA 1682	FECAL COLIFORM EPA 1681	TOTAL SOLIDS EPA 1684
CLASS "A"	X	X	X	X	X
CLASS "B"					

COMMENTS: rec'd w/no insulation [unclear]

RELINQUISHED BY (SIGNED)	RECEIVED BY (SIGNED)	DATE	TIME
[Signature]	[Signature]	3/19/14	09:40

SHIPPING ADDRESS: BIOVIR LABORATORIES, INC., 685 STONE ROAD, UNIT 6, BENICIA CALIFORNIA 94510





# BIOSOLIDS SAMPLE DATA SHEET

(Please fill out applicable areas, sign and return to BioVir with the sample.)  
Phone: 1-800-GIARDIA Fax: 707-747-1751 WEB: www.biovir.com  
Note: Please print clearly using waterproof ink.

LAB USE ONLY:	
LIMS #:	384-7
Client #:	VTC 001
Date Rec'd:	3/19/14
Time Rec'd:	09:40
Temp:	2.5°C

COMPANY NAME & ADDRESS: Victor Valley Waste under Reclamation Authority 15776 Main St. Suite #3, Hesperia, Ca 92345 Contact Name: Gina Christie / Chris Wills Tel: 760 276-8638 x216		DATE OF SAMPLING:	3-18-14
NAME OF SAMPLER: Brad Adams		TIME OF SAMPLING:	1402
LOCATION OF SAMPLING: Piping Bed # 4-10		SAMPLE ID:	140318-26
TREATMENT CHARACTERISTICS: Class A Anaerobically digested		TYPE OF SAMPLE:	6 GRAB COMPOSITE
SAMPLE VOLUME (WET WEIGHT): ~ 300 grams		TOTAL SOLIDS PERCENTAGE:	(MUST BE INCLUDED IN ORDER TO BEGIN ANALYSIS) %

HOLD TIMES (Store and ship cold)	ENTERIC VIRUS	HELMINTH OVA	SALMONELLA	FECAL COLIFORM
	2 Weeks	1 Month	6 Hours*	8 Hours*

503.21 g.

\* **Fecal Coliform** - Language Extracted from EPA Fecal Coliform (Biosolids) Method 1681 (July 2006): For fecal coliform samples for sewage sludge (biosolids) only, the holding time is extended to 24 hours for the following sample types using either EPA Method 1680 (LTB-EC) or 1681 (A-1): Class A composted, Class B aerobically digested, and Class B anaerobically digested. All other matrices should be analyzed within 8 hours of sample collection, 6 hour maximum transport and 2 hours for sample processing. Note: Adherence to sample handling procedures and holding time limits is critical to the production of valid data. Sample results will be considered invalid if these conditions are not met.

**Salmonella** - Language Extracted from EPA Salmonella (Biosolids) Method 1682 (July 2006): Analyses should begin immediately, preferably, within 2 hours of collection. If it is impossible to examine samples within 2 hours, samples must be maintained at <10°C until analysis. Samples must not be frozen. Sample analysis must begin within 6 hours unless otherwise specified in the Code of Federal Regulations Part 503. Note: Adherence to sample handling procedures and holding time limits is critical to the production of valid data. Sample results will be considered invalid if these conditions are not met. A holding time variance is allowed from your Regional Administrator under Section 136.3(e). Please refer to the Final Rule for details.

<input checked="" type="checkbox"/> OK TO RUN PAST HOLD TIME - (up to 24 hrs from sampling for bacterial analysis)  <input type="checkbox"/> SAMPLE COMPRISED OF CLASS A COMPOSTED, CLASS B AEROBICALLY OR ANAEROBICALLY DIGESTED BIOSOLIDS (FECAL COLIFORM TEST ONLY).	Print Name: Chris Wills	Date: 3-18-14
	Signature: 	Date:

ASSAY(S) TO BE PERFORMED - (PLEASE CHECK)					
ANALYTICAL STANDARD	ENTERIC VIRUS ASTM D 4994-89	HELMINTH OVA EPA 625/R-92/013	SALMONELLA EPA 1682	FECAL COLIFORM EPA 1681	TOTAL SOLIDS EPA 1684
CLASS "A"	X	X	X	X	X
CLASS "B"					

COMMENTS: med w/no insulation sm-

RELINQUISHED BY (SIGNED)	RECEIVED BY (SIGNED)	DATE	TIME
		3/19/14	09:40

SHIPPING ADDRESS: BIOVIR LABORATORIES, INC., 685 STONE ROAD, UNIT 6, BENICIA CALIFORNIA 94510





# BIOSOLIDS SAMPLE DATA SHEET

(Please fill out applicable areas, sign and return to BioVir with the sample)  
Phone: 1-800-GIARDIA Fax: 707-747-1751 WEB: www.biovir.com  
Note: Please print clearly using waterproof ink.

**LAB USE ONLY:**  
LIMS #: 384-8  
Client #: YTC 001  
Date Rec'd: 3/19/14  
Time Rec'd: 09:40  
Temp: 2-5°C

COMPANY NAME & ADDRESS: Victor Valley Waste Water Reclamation Authority 15776 Main St. Suite #3, Hesperia, Ca 92345		DATE OF SAMPLING: 3-18-14
Contact Name: Gen. Claudio / Chris Wills Tel: 760-246-8638 x216		TIME OF SAMPLING: 1354
NAME OF SAMPLER: Bead Adams	SAMPLE ID: 140318-27	
LOCATION OF SAMPLING: Drying Bed #4-11	TYPE OF SAMPLE: <u>6-GRAB</u> COMPOSITE	
TREATMENT CHARACTERISTICS: CLASS A Anaerobic Digiested	TOTAL SOLIDS PERCENTAGE: %	
SAMPLE VOLUME (WET WEIGHT): ~300g	(MUST BE INCLUDED IN ORDER TO BEGIN ANALYSIS)	

HOLD TIMES (Store and ship cold)	ENTERIC VIRUS	HELMINTH OVA	SALMONELLA	FECAL COLIFORM
	2 Weeks	1 Month	6 Hours*	8 Hours*

446.51g.

\* Fecal Coliform - Language Extracted from EPA Fecal Coliform (Biosolids) Method 1681 (July 2006): For fecal coliform samples for sewage sludge (biosolids) only, the holding time is extended to 24 hours for the following sample types using either EPA Method 1680 (LTB-EC) or 1681 (A-1). Class A composted, Class B aerobically digested, and Class B anaerobically digested. All other matrices should be analyzed within 8 hours of sample collection, 8 hour maximum transport and 2 hours for sample processing. Note: Adherence to sample handling procedures and holding time limits is critical to the production of valid data. Sample results will be considered invalid if these conditions are not met.

Salmonella - Language Extracted from EPA Salmonella (Biosolids) Method 1682 (July 2006): Analyses should begin immediately, preferably, within 2 hours of collection. If it is impossible to examine samples within 2 hours, samples must be maintained at <10°C until analysis. Samples must not be frozen. Sample analysis must begin within 6 hours unless otherwise specified in the Code of Federal Regulations Part 503. Note: Adherence to sample handling procedures and holding time limits is critical to the production of valid data. Sample results will be considered invalid if these conditions are not met.

A holding time variance is allowed from your Regional Administrator under Section 136.3(e). Please refer to the Final Rule for details.

<input checked="" type="checkbox"/> OK TO RUN PAST HOLD TIME - (up to 24 hrs from sampling for bacterial analysis)  <input type="checkbox"/> SAMPLE COMPRISED OF CLASS A COMPOSTED, CLASS B AEROBICALLY OR ANAEROBICALLY DIGESTED BIOSOLIDS (FECAL COLIFORM TEST ONLY)	Print Name: Chris Wills	3-18-14
	Signature: 	Date

ASSAY(S) TO BE PERFORMED - (PLEASE CHECK)					
ANALYTICAL STANDARD	ENTERIC VIRUS ASTM D 4994-89	HELMINTH OVA EPA 625/R-92/013	SALMONELLA EPA 1682	FECAL COLIFORM EPA 1681	TOTAL SOLIDS EPA 1684
CLASS 'A'	X	X	X	X	X
CLASS 'B'					

COMMENTS: need w/no insulation here

RELINQUISHED BY (SIGNED)	RECEIVED BY (SIGNED)	DATE	TIME
		3/19/14	09:40

SHIPPING ADDRESS: BIOVIR LABORATORIES, INC., 685 STONE ROAD, UNIT 6, BENICIA CALIFORNIA 94510



BioVir Laboratories, Inc



685 Stone Road, Unit 6 • Benicia, CA 94510 • (707) 747-5906 • 1-800-GIARDIA • FAX (707) 747-1751 • WEB: www.biovir.com

**REPORT NO.:** 140384  
**PAGE NO.:** 1 of 10  
**CLIENT:** Victor Valley Wastewater Reclamation Authority  
**ADDRESS:** 15776 Main Street, Suite 3  
 Victorville, CA 92345-9454  
**CLIENT NO:** VIC001      **CLIENT PO:** N/A

**ASSAY RESULTS:**

**Test:** 1682 Salmonella MSRV      **Method:** EPA 1682

BioVir #	Sample ID	Site	Analyte	Result	Units
140384-001	140318-20	Drying Bed #4-1	Salmonella spp.	<0.3	MPN/4 g TS
Collector: Brad Adams      CollectDate: 3/18/2014      CollectTime: 1:42:00 PM ReceiveDate: 3/19/2014 9:40:00 AM      Matrix: Biosoilds      Temp: 2.5 C Volume: 439.43 g      Analysis Start Date: 3/19/14      Analysis Start Time: 1025 Analyst: Christian Ignacio      Analysis End: 3/21/2014 Comment:					
140384-002	140318-21	Drying Bed #4-2	Salmonella spp.	<0.3	MPN/4 g TS
Collector: Brad Adams      CollectDate: 3/18/2014      CollectTime: 1:48:00 PM ReceiveDate: 3/19/2014 9:40:00 AM      Matrix: Biosoilds      Temp: 2.5 C Volume: 439.43 g      Analysis Start Date: 3/19/14      Analysis Start Time: 1025 Analyst: Christian Ignacio      Analysis End: 3/21/2014 Comment:					
140384-003	140318-22	Drying Bed #4-3	Salmonella spp.	<0.3	MPN/4 g TS
Collector: Brad Adams      CollectDate: 3/18/2014      CollectTime: 1:35:00 PM ReceiveDate: 3/19/2014 9:40:00 AM      Matrix: Biosoilds      Temp: 2.5 C Volume: 290.59 g      Analysis Start Date: 3/19/14      Analysis Start Time: 1025 Analyst: Christian Ignacio      Analysis End: 3/21/2014 Comment:					
140384-004	140318-23	Drying Bed #4-5	Salmonella spp.	<0.3	MPN/4 g TS
Collector: Brad Adams      CollectDate: 3/18/2014      CollectTime: 1:29:00 PM ReceiveDate: 3/19/2014 9:40:00 AM      Matrix: Biosoilds      Temp: 2.5 C Volume: 552.83 g      Analysis Start Date: 3/19/14      Analysis Start Time: 1025 Analyst: Christian Ignacio      Analysis End: 3/21/2014 Comment:					

**REPORT NO.:** 140384  
**PAGE NO.:** 2 of 10  
**CLIENT:** Victor Valley Wastewater Reclamation Authority  
**ADDRESS:** 15776 Main Street, Suite 3  
 Victorville, CA 92345-9454  
**CLIENT NO** VIC001 **CLIENT PO:** N/A

**ASSAY RESULTS:**

**Test: 1682 Salmonella MSRV Method: EPA 1682**

BioVir #	Sample ID	Site	Analyte	Result	Units
140384-005	140318-24	Drying Bed #4-7	Salmonella spp.	<0.3	MPN/4 g TS
Collector Brad Adams CollectDate 3/18/2014 CollectTime: 1:07:00 PM ReceiveDate 3/19/2014 9:40:00 AM Matrix: Biosoilds Temp 2.5 C Volume: 318.94 g Analysis Start Date: 3/19/14 Analysis Start Time: 1025 Analyst: Christian Ignacio Analysis End: 3/21/2014 Comment					
140384-006	140318-25	Drying Bed #4-8	Salmonella spp.	<0.3	MPN/4 g TS
Collector Brad Adams CollectDate 3/18/2014 CollectTime: 1:14:00 PM ReceiveDate 3/19/2014 9:40:00 AM Matrix: Biosoilds Temp 2.5 C Volume: 311.85 g Analysis Start Date: 3/19/14 Analysis Start Time: 1025 Analyst: Christian Ignacio Analysis End: 3/21/2014 Comment					
140384-007	140318-26	Drying Bed #4-10	Salmonella spp.	<0.3	MPN/4 g TS
Collector Brad Adams CollectDate 3/18/2014 CollectTime: 2:02:00 PM ReceiveDate 3/19/2014 9:40:00 AM Matrix: Biosoilds Temp 2.5 C Volume: 503.21 g Analysis Start Date: 3/19/14 Analysis Start Time: 1025 Analyst: Christian Ignacio Analysis End: 3/21/2014 Comment					
140384-008	140318-27	Drying Bed #4-11	Salmonella spp.	<0.3	MPN/4 g TS
Collector Brad Adams CollectDate 3/18/2014 CollectTime: 1:54:00 PM ReceiveDate 3/19/2014 9:40:00 AM Matrix: Biosoilds Temp 2.5 C Volume: 446.51 g Analysis Start Date: 3/19/14 Analysis Start Time: 1025 Analyst: Christian Ignacio Analysis End: 3/21/2014 Comment					

**Test: Coliform, Fecal Method: EPA 1681**

BioVir #	Sample ID	Site	Analyte	Result	Units
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**REPORT NO.:** 140384  
**PAGE NO.:** 4 of 10  
**CLIENT:** Victor Valley Wastewater Reclamation Authority  
**ADDRESS:** 15776 Main Street, Suite 3  
 Victorville, CA 92345-9454  
**CLIENT NO** VIC001 **CLIENT PO:** N/A

**ASSAY RESULTS:**

**Test: Coliform, Fecal Method: EPA 1681**

BioVir #	Sample ID	Site	Analyte	Result	Units
140384-005	140318-24	Drying Bed #4-7	Coliform, Fecal	0.2	MPN/1 g Total Solids
Collector Brad Adams CollectDate 3/18/2014 CollectTime: 1:07:00 PM ReceiveDate 3/19/2014 9:40:00 AM Matrix: Biosoilds Temp 2.5 C Volume: 318.94 g Analysis Start Date: 3/19/14 Analysis Start Time: 1025 Analyst: Christian Ignacio Analysis End: 3/21/2014 Comment					
140384-006	140318-25	Drying Bed #4-8	Coliform, Fecal	1.4	MPN/1 g Total Solids
Collector Brad Adams CollectDate 3/18/2014 CollectTime: 1:14:00 PM ReceiveDate 3/19/2014 9:40:00 AM Matrix: Biosoilds Temp 2.5 C Volume: 311.85 g Analysis Start Date: 3/19/14 Analysis Start Time: 1025 Analyst: Christian Ignacio Analysis End: 3/21/2014 Comment					
140384-007	140318-26	Drying Bed #4-10	Coliform, Fecal	0.2	MPN/1 g Total Solids
Collector Brad Adams CollectDate 3/18/2014 CollectTime: 2:02:00 PM ReceiveDate 3/19/2014 9:40:00 AM Matrix: Biosoilds Temp 2.5 C Volume: 503.21 g Analysis Start Date: 3/19/14 Analysis Start Time: 1025 Analyst: Christian Ignacio Analysis End: 3/21/2014 Comment					
140384-008	140318-27	Drying Bed #4-11	Coliform, Fecal	0.2	MPN/1 g Total Solids
Collector Brad Adams CollectDate 3/18/2014 CollectTime: 1:54:00 PM ReceiveDate 3/19/2014 9:40:00 AM Matrix: Biosoilds Temp 2.5 C Volume: 446.51 g Analysis Start Date: 3/19/14 Analysis Start Time: 1025 Analyst: Christian Ignacio Analysis End: 3/21/2014 Comment					

**Test: Enteric Virus Method: ASTM D 4994-89**

BioVir #	Sample ID	Site	Analyte	Result	Units
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**REPORT NO.:** 140384  
**PAGE NO.:** 5 of 10  
**CLIENT:** Victor Valley Wastewater Reclamation Authority  
**ADDRESS:** 15776 Main Street, Suite 3  
 Victorville, CA 92345-9454  
**CLIENT NO:** VIC001      **CLIENT PO:** N/A

**ASSAY RESULTS:**

**Test:** Enteric Virus      **Method:** ASTM D 4994-89

BioVir #	Sample ID	Site	Analyte	Result	Units
140384-001	140318-20	Drying Bed #4-1	Enteric Virus	<1	pfu/4 g TS
Collector Brad Adams      CollectDate 3/18/2014      CollectTime: 1:42:00 PM ReceiveDate 3/19/2014 9:40:00 AM      Matrix: Biosoilds      Temp 2.5 C Volume: 439.43 g      Analysis Start Date: 3/20/14      Analysis Start Time: 1420 Analyst: ValentinaL      Analysis End: 4/3/2014 Comment					
140384-002	140318-21	Drying Bed #4-2	Enteric Virus	<1	pfu/4 g TS
Collector Brad Adams      CollectDate 3/18/2014      CollectTime: 1:48:00 PM ReceiveDate 3/19/2014 9:40:00 AM      Matrix: Biosoilds      Temp 2.5 C Volume: 439.43 g      Analysis Start Date: 3/20/14      Analysis Start Time: 1420 Analyst: ValentinaL      Analysis End: 4/3/2014 Comment					
140384-003	140318-22	Drying Bed #4-3	Enteric Virus	<1	pfu/4 g TS
Collector Brad Adams      CollectDate 3/18/2014      CollectTime: 1:35:00 PM ReceiveDate 3/19/2014 9:40:00 AM      Matrix: Biosoilds      Temp 2.5 C Volume: 290.59 g      Analysis Start Date: 3/20/14      Analysis Start Time: 1420 Analyst: ValentinaL      Analysis End: 4/3/2014 Comment					
140384-004	140318-23	Drying Bed #4-5	Enteric Virus	<1	pfu/4 g TS
Collector Brad Adams      CollectDate 3/18/2014      CollectTime: 1:29:00 PM ReceiveDate 3/19/2014 9:40:00 AM      Matrix: Biosoilds      Temp 2.5 C Volume: 552.83 g      Analysis Start Date: 3/20/14      Analysis Start Time: 1420 Analyst: ValentinaL      Analysis End: 4/3/2014 Comment					
140384-005	140318-24	Drying Bed #4-7	Enteric Virus	<1	pfu/4 g TS
Collector Brad Adams      CollectDate 3/18/2014      CollectTime: 1:07:00 PM ReceiveDate 3/19/2014 9:40:00 AM      Matrix: Biosoilds      Temp 2.5 C Volume: 318.94 g      Analysis Start Date: 3/20/14      Analysis Start Time: 1420 Analyst: ValentinaL      Analysis End: 4/3/2014 Comment					

**REPORT NO.:** 140384  
**PAGE NO.:** 6 of 10  
**CLIENT:** Victor Valley Wastewater Reclamation Authority  
**ADDRESS:** 15776 Main Street, Suite 3  
 Victorville, CA 92345-9454  
**CLIENT NO** VIC001 **CLIENT PO:** N/A

**ASSAY RESULTS:**

**Test: Enteric Virus Method: ASTM D 4994-89**

BioVir #	Sample ID	Site	Analyte	Result	Units
140384-006	140318-25	Drying Bed #4-8	Enteric Virus	<1	pfu/4 g TS
Collector Brad Adams CollectDate 3/18/2014 CollectTime: 1:14:00 PM ReceiveDate 3/19/2014 9:40:00 AM Matrix: Biosoilds Temp 2.5 C Volume: 311.85 g Analysis Start Date: 3/20/14 Analysis Start Time: 1420 Analyst: ValentinaL Analysis End: 4/3/2014					

Comment

140384-007	140318-26	Drying Bed #4-10	Enteric Virus	<1	pfu/4 g TS
Collector Brad Adams CollectDate 3/18/2014 CollectTime: 2:02:00 PM ReceiveDate 3/19/2014 9:40:00 AM Matrix: Biosoilds Temp 2.5 C Volume: 503.21 g Analysis Start Date: 3/20/14 Analysis Start Time: 1420 Analyst: ValentinaL Analysis End: 4/3/2014					

Comment

140384-008	140318-27	Drying Bed #4-11	Enteric Virus	<1	pfu/4 g TS
Collector Brad Adams CollectDate 3/18/2014 CollectTime: 1:54:00 PM ReceiveDate 3/19/2014 9:40:00 AM Matrix: Biosoilds Temp 2.5 C Volume: 446.51 g Analysis Start Date: 3/20/14 Analysis Start Time: 1420 Analyst: ValentinaL Analysis End: 4/3/2014					

Comment

**Test: Helminth Ova Method: EPA/625/R-92/013**

BioVir #	Sample ID	Site	Analyte	Result	Units
140384-001	140318-20	Drying Bed #4-1	Helminth Ova	<1	Helminth Ova observed / 4 g Total Solids
Collector Brad Adams CollectDate 3/18/2014 CollectTime: 1:42:00 PM ReceiveDate 3/19/2014 9:40:00 AM Matrix: Biosoilds Temp 2.5 C Volume: 439.43 g Analysis Start Date: 3/24/14 Analysis Start Time: 1115 Analyst: SMullaney Analysis End: 4/22/2014					

Comment

**REPORT NO.:** 140384  
**PAGE NO.:** 7 of 10  
**CLIENT:** Victor Valley Wastewater Reclamation Authority  
**ADDRESS:** 15776 Main Street, Suite 3  
 Victorville, CA 92345-9454  
**CLIENT NO:** VIC001      **CLIENT PO:** N/A

**ASSAY RESULTS:**

**Test:** Helminth Ova      **Method:** EPA/625/R-92/013

BioVir #	Sample ID	Site	Analyte	Result	Units
140384-002	140318-21	Drying Bed #4-2	Helminth Ova	<1	Helminth Ova observed / 4 g Total Solids
Collector Brad Adams      CollectDate 3/18/2014      CollectTime: 1:48:00 PM ReceiveDate 3/19/2014 9:40:00 AM      Matrix: Biosolids      Temp 2.5 C Volume: 439.43 g      Analysis Start Date: 3/24/14      Analysis Start Time: 1115 Analyst: SMullaney      Analysis End: 4/22/2014 Comment					
140384-003	140318-22	Drying Bed #4-3	Helminth Ova	<1	Helminth Ova observed / 4 g Total Solids
Collector Brad Adams      CollectDate 3/18/2014      CollectTime: 1:35:00 PM ReceiveDate 3/19/2014 9:40:00 AM      Matrix: Biosolids      Temp 2.5 C Volume: 290.59 g      Analysis Start Date: 3/24/14      Analysis Start Time: 1115 Analyst: SMullaney      Analysis End: 4/22/2014 Comment					
140384-004	140318-23	Drying Bed #4-5	Helminth Ova	<1	Helminth Ova observed / 4 g Total Solids
Collector Brad Adams      CollectDate 3/18/2014      CollectTime: 1:29:00 PM ReceiveDate 3/19/2014 9:40:00 AM      Matrix: Biosolids      Temp 2.5 C Volume: 552.83 g      Analysis Start Date: 3/24/14      Analysis Start Time: 1115 Analyst: SMullaney      Analysis End: 4/22/2014 Comment					
140384-005	140318-24	Drying Bed #4-7	Helminth Ova	<1	Helminth Ova observed / 4 g Total Solids
Collector Brad Adams      CollectDate 3/18/2014      CollectTime: 1:07:00 PM ReceiveDate 3/19/2014 9:40:00 AM      Matrix: Biosolids      Temp 2.5 C Volume: 318.94 g      Analysis Start Date: 3/24/14      Analysis Start Time: 1115 Analyst: SMullaney      Analysis End: 4/22/2014 Comment					







**REPORT NO.:** 140384  
**PAGE NO.:** 10 of 10  
**CLIENT:** Victor Valley Wastewater Reclamation Authority  
**ADDRESS:** 15776 Main Street, Suite 3  
 Victorville, CA 92345-9454  
**CLIENT NO** VIC001 **CLIENT PO:** N/A

**ASSAY RESULTS:**

**Test: Total Solids Method: SM2540B**

BioVir #	Sample ID	Site	Analyte	Result	Units
140384-006	140318-25	Drying Bed #4-8	Total Solids (%)	93.1	% Total Solids
Collector Brad Adams CollectDate 3/18/2014 CollectTime: 1:14:00 PM ReceiveDate 3/19/2014 9:40:00 AM Matrix: Biosoilds Temp 2.5 C Volume: 311.85 g Analysis Start Date: 3/19/14 Analysis Start Time: 1730 Analyst: MPhilbrook Analysis End: 3/20/2014 Comment					
140384-007	140318-26	Drying Bed #4-10	Total Solids (%)	94.1	% Total Solids
Collector Brad Adams CollectDate 3/18/2014 CollectTime: 2:02:00 PM ReceiveDate 3/19/2014 9:40:00 AM Matrix: Biosoilds Temp 2.5 C Volume: 503.21 g Analysis Start Date: 3/19/14 Analysis Start Time: 1730 Analyst: MPhilbrook Analysis End: 3/20/2014 Comment					
140384-008	140318-27	Drying Bed #4-11	Total Solids (%)	87.7	% Total Solids
Collector Brad Adams CollectDate 3/18/2014 CollectTime: 1:54:00 PM ReceiveDate 3/19/2014 9:40:00 AM Matrix: Biosoilds Temp 2.5 C Volume: 446.51 g Analysis Start Date: 3/19/14 Analysis Start Time: 1730 Analyst: MPhilbrook Analysis End: 3/20/2014 Comment					

**SAMPLE EVALUATION PERFORMANCE CRITERIA:** The precise rates of recovery of organisms from environmental samples cannot be determined. BioVir Laboratories has analyzed your sample(s) in accordance with the method described with each analyte above, however, due to inherent limitations of these methods organisms may avoid detection. For additional information regarding the limitations of the method(s) referred to above please call us at 1-800-GIARDIA.

**COMPANY IS NOT AN INSURER:** BioVir Laboratories is not an insurer or guarantor of the quality and/or purity of water, wastewater, biosolid or other material from which the sample was taken. BioVir offers no express or implied warranties whatsoever concerning the quality or purity of any water, wastewater, biosolid or other material which is ultimately consumed, distributed, applied or disposed.

**MAINTENANCE OF RECORDS:** BioVir Laboratories, Inc. shall maintain records pertaining to the historical reconstruction of client's data for a minimum of five years from the date of issuance of the final report. Records may be destroyed after that date unless a written client's request for records transfer is received by BioVir which requests otherwise. Records transfer or storage charges may apply after the 5 year period. THIS REPORT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF BIOVIR LABORATORIES, INC.

4/28/2014

Date:



Signature

Quality Checked LBarriga

















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*The Standard of Excellence for Over 100 Years*

Client Name: Victor Valley Reclamation Authority  
 Contact: Gina Cloutier  
 Address: 20111 Shay Road  
 Victorville, CA 92394

Analytical Report: Page 1 of 8  
 Project Name: VVWRA-Biosolids Sample - Ann  
 Project Number: Routine

**Work Order Number: B410377**

Report Date: 15-Sep-2014

Received on Ice (Y/N): Yes Temp: 7 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

**Sample Identification**

<u>Lab Sample #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>By</u>	<u>Date Submitted</u>	<u>By</u>
B410377-01	140903-10 Staged From Drying Bed #4-1 (Class A) Biosolids (6 Grab-Comp) Composite	Sludge	09/03/14 13:10	Chad Steinwan	09/03/14 15:30	Courier (J. Mendez)
B410377-02	140903-11 Staged From Drying Bed #4-2 (Class A) Biosolids (6 Grab-Comp) Composite	Sludge	09/03/14 13:35	Chad Steinwan	09/03/14 15:30	Courier (J. Mendez)
B410377-03	140903-12 Staged From Drying Bed #4-3 (Class A) Biosolids (6 Grab-Comp) Composite	Sludge	09/03/14 13:45	Chad Steinwan	09/03/14 15:30	Courier (J. Mendez)
B410377-04	140903-13 Staged From Drying Bed #4-7 (Class A) Biosolids (6 Grab-Comp) Composite	Sludge	09/03/14 13:40	Chad Steinwan	09/03/14 15:30	Courier (J. Mendez)
B410377-05	140903-14 Staged From Drying Bed #4-8 (Class A) Biosolids (6 Grab-Comp) Composite	Sludge	09/03/14 13:26	Chad Steinwan	09/03/14 15:30	Courier (J. Mendez)
B410377-06	140903-15 Staged From Drying Bed #4-9 (Class A) Biosolids (6 Grab-Comp) Composite	Sludge	09/03/14 13:20	Chad Steinwan	09/03/14 15:30	Courier (J. Mendez)

*mailing*  
 P.O. Box 432  
 Riverside, CA 92502-0432

*location*  
 6100 Quail Valley Court  
 Riverside, CA 92507-0704

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 F 951 653 1662  
 www.babcocklabs.com

CA ELAP No. 2698  
 EPA no. CA00102  
 LACSD No., 10119



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Client Name: Victor Valley Reclamation Authority  
 Contact: Gina Cloutier  
 Address: 20111 Shay Road  
 Victorville, CA 92394

Analytical Report: Page 2 of 8  
 Project Name: VVWRA-Biosolids Sample - Ann  
 Project Number: Routine

**Work Order Number: B4I0377**

Report Date: 15-Sep-2014

Received on Ice (Y/N): Yes Temp: 7 °C

Laboratory Reference Number

**B4I0377-01**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
140903-10 Staged From Drying Bed #4-1 (Class A) Biosolids (6 Grab-Comp)	Sludge	09/03/14 13:10	09/03/14 15:30

<u>Analyte(s)</u>	<u>Result</u>	<u>RDL</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
<b>Anions</b>							
Nitrate as N	370	4.4	mg/kg dry	EPA 300.0	09/05/14 03:34	dcb	N_WEX
<b>Solids</b>							
Total Solids	92	0.10	%	SM 2540G	09/04/14 11:00	lfs	
<b>Nutrients</b>							
Nitrite as N	ND	1.1	mg/kg dry	SM 4500NO2 B	09/05/14 18:30	lfs	
Ammonia-Nitrogen	3700	220	mg/Kg* dry	SM4500NH3H	09/05/14 15:51	sll	
Kjeldahl Nitrogen	37000	2200	mg/kg dry	EPA 351.2	09/05/14 17:21	sll	
Total Phosphorus	32000	22	mg/Kg* dry	EPA 6020	09/10/14 16:36	MEL	
<b>Metals and Metalloids; EPA SW846 Series</b>							
Antimony	ND	5.0	mg/kg dry	EPA 6020	09/09/14 13:55	ERA	
Arsenic	7.3	5.0	mg/kg dry	EPA 6020	09/09/14 13:55	ERA	
Barium	260	10	mg/kg dry	EPA 6020	09/09/14 13:55	ERA	
Beryllium	ND	1.0	mg/kg dry	EPA 6020	09/09/14 13:55	ERA	
Cadmium	1.4	1.0	mg/kg dry	EPA 6020	09/09/14 13:55	ERA	
Total Chromium	41	1.0	mg/kg dry	EPA 6020	09/09/14 13:55	ERA	
Cobalt	3.2	1.0	mg/kg dry	EPA 6020	09/09/14 13:55	ERA	
Copper	240	1.0	mg/kg dry	EPA 6020	09/09/14 13:55	ERA	
Lead	13	5.0	mg/kg dry	EPA 6020	09/09/14 13:55	ERA	
Mercury	1.2	1.1	mg/kg dry	EPA 7471A	09/10/14 10:44	ams	
Molybdenum	11	1.0	mg/kg dry	EPA 6020	09/09/14 13:55	ERA	
Nickel	15	1.0	mg/kg dry	EPA 6020	09/09/14 13:55	ERA	
Selenium	6.1	5.0	mg/kg dry	EPA 6020	09/09/14 13:55	ERA	
Silver	4.3	1.0	mg/kg dry	EPA 6020	09/09/14 13:55	ERA	
Thallium	ND	25	mg/kg dry	EPA 6020	09/09/14 13:55	ERA	
Vanadium	89	5.0	mg/kg dry	EPA 6020	09/09/14 13:55	ERA	
Zinc	690	5.0	mg/kg dry	EPA 6020	09/09/14 13:55	ERA	



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Client Name: Victor Valley Reclamation Authority  
 Contact: Gina Cloutier  
 Address: 20111 Shay Road  
 Victorville, CA 92394

Analytical Report: Page 3 of 8  
 Project Name: VVWRA-Biosolids Sample - Ann  
 Project Number: Routine

**Work Order Number: B410377**

Report Date: 15-Sep-2014

Received on Ice (Y/N): Yes Temp: 7 °C

Laboratory Reference Number

**B410377-02**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
140903-11 Staged From Drying Bed #4-2 (Class A) Biosolids (6 Grab-Comp)	Sludge	09/03/14 13:35	09/03/14 15:30

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
<b>Anions</b>							
Nitrate as N	180	2.1	mg/kg dry	EPA 300.0	09/04/14 05:19	dcb	N_WEX
<b>Solids</b>							
Total Solids	95	0.10	%	SM 2540G	09/04/14 11:00	lfs	
<b>Nutrients</b>							
Nitrite as N	ND	1.1	mg/kg dry	SM 4500NO2 B	09/05/14 18:30	lfs	
Ammonia-Nitrogen	3300	210	mg/Kg* dry	SM4500NH3H	09/05/14 15:53	sll	
Kjeldahl Nitrogen	37000	2100	mg/kg dry	EPA 351.2	09/05/14 17:22	sll	
Total Phosphorus	29000	21	mg/Kg* dry	EPA 6020	09/10/14 16:38	MEL	
<b>Metals and Metalloids; EPA SW846 Series</b>							
Antimony	ND	5.0	mg/kg dry	EPA 6020	09/09/14 13:57	ERA	
Arsenic	9.8	5.0	mg/kg dry	EPA 6020	09/09/14 13:57	ERA	
Barium	320	10	mg/kg dry	EPA 6020	09/09/14 13:57	ERA	
Beryllium	ND	1.0	mg/kg dry	EPA 6020	09/09/14 13:57	ERA	
Cadmium	1.7	1.0	mg/kg dry	EPA 6020	09/09/14 13:57	ERA	
Total Chromium	54	1.0	mg/kg dry	EPA 6020	09/09/14 13:57	ERA	
Cobalt	3.8	1.0	mg/kg dry	EPA 6020	09/09/14 13:57	ERA	
Copper	300	1.0	mg/kg dry	EPA 6020	09/09/14 13:57	ERA	
Lead	21	5.0	mg/kg dry	EPA 6020	09/09/14 13:57	ERA	
Mercury	1.2	1.1	mg/kg dry	EPA 7471A	09/10/14 10:46	ams	
Molybdenum	13	1.0	mg/kg dry	EPA 6020	09/09/14 13:57	ERA	
Nickel	18	1.0	mg/kg dry	EPA 6020	09/09/14 13:57	ERA	
Selenium	7.2	5.0	mg/kg dry	EPA 6020	09/09/14 13:57	ERA	
Silver	6.0	1.0	mg/kg dry	EPA 6020	09/09/14 13:57	ERA	
Thallium	ND	25	mg/kg dry	EPA 6020	09/09/14 13:57	ERA	
Vanadium	110	5.0	mg/kg dry	EPA 6020	09/09/14 13:57	ERA	
Zinc	830	5.0	mg/kg dry	EPA 6020	09/09/14 13:57	ERA	



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Client Name: Victor Valley Reclamation Authority  
 Contact: Gina Cloutier  
 Address: 20111 Shay Road  
 Victorville, CA 92394

Analytical Report: Page 4 of 8  
 Project Name: VVWRA-Biosolids Sample - Ann  
 Project Number: Routine

**Work Order Number: B410377**

Report Date: 15-Sep-2014

Received on Ice (Y/N): Yes Temp: 7 °C

Laboratory Reference Number  
**B410377-03**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
140903-12 Staged From Drying Bed #4-3 (Class A) Biosolids (6 Grab-Comp)	Sludge	09/03/14 13:45	09/03/14 15:30

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
<b>Anions</b>							
Nitrate as N	250	2.3	mg/kg dry	EPA 300.0	09/04/14 05:34	dcb	N_WEX
<b>Solids</b>							
Total Solids	87	0.10	%	SM 2540G	09/04/14 11:00	lfs	
<b>Nutrients</b>							
Nitrite as N	ND	1.2	mg/kg dry	SM 4500NO2 B	09/05/14 18:30	lfs	
Ammonia-Nitrogen	2800	230	mg/Kg* dry	SM4500NH3H	09/05/14 15:54	sll	
Kjeldahl Nitrogen	32000	2300	mg/kg dry	EPA 351.2	09/05/14 17:24	sll	
Total Phosphorus	31000	23	mg/Kg* dry	EPA 6020	09/10/14 16:39	MEL	
<b>Metals and Metalloids; EPA SW846 Series</b>							
Antimony	ND	5.0	mg/kg dry	EPA 6020	09/09/14 13:59	ERA	
Arsenic	6.9	5.0	mg/kg dry	EPA 6020	09/09/14 13:59	ERA	
Barium	220	10	mg/kg dry	EPA 6020	09/09/14 13:59	ERA	
Beryllium	ND	1.0	mg/kg dry	EPA 6020	09/09/14 13:59	ERA	
Cadmium	1.2	1.0	mg/kg dry	EPA 6020	09/09/14 13:59	ERA	
Total Chromium	39	1.0	mg/kg dry	EPA 6020	09/09/14 13:59	ERA	
Cobalt	2.9	1.0	mg/kg dry	EPA 6020	09/09/14 13:59	ERA	
Copper	220	1.0	mg/kg dry	EPA 6020	09/09/14 13:59	ERA	
Lead	11	5.0	mg/kg dry	EPA 6020	09/09/14 13:59	ERA	
Mercury	0.58	0.46	mg/kg dry	EPA 7471A	09/10/14 11:45	ams	
Molybdenum	9.1	1.0	mg/kg dry	EPA 6020	09/09/14 13:59	ERA	
Nickel	13	1.0	mg/kg dry	EPA 6020	09/09/14 13:59	ERA	
Selenium	5.1	5.0	mg/kg dry	EPA 6020	09/09/14 13:59	ERA	
Silver	3.6	1.0	mg/kg dry	EPA 6020	09/09/14 13:59	ERA	
Thallium	ND	25	mg/kg dry	EPA 6020	09/09/14 13:59	ERA	
Vanadium	79	5.0	mg/kg dry	EPA 6020	09/09/14 13:59	ERA	
Zinc	620	5.0	mg/kg dry	EPA 6020	09/09/14 13:59	ERA	

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 6100 Quail Valley Court  
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 EPA no. CA00102  
 LACSD No., 10119



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Client Name: Victor Valley Reclamation Authority  
 Contact: Gina Cloutier  
 Address: 20111 Shay Road  
 Victorville, CA 92394

Analytical Report: Page 5 of 8  
 Project Name: VVWRA-Biosolids Sample - Ann  
 Project Number: Routine

**Work Order Number: B410377**

Report Date: 15-Sep-2014

Received on Ice (Y/N): Yes Temp: 7 °C

Laboratory Reference Number  
**B410377-04**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
140903-13 Staged From Drying Bed #4-7 (Class A) Biosolids (6 Grab-Comp)	Sludge	09/03/14 13:40	09/03/14 15:30

<u>Analyte(s)</u>	<u>Result</u>	<u>RDL</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
<b>Anions</b>							
Nitrate as N	58	2.1	mg/kg dry	EPA 300.0	09/04/14 05:49	dcb	N_WEX
<b>Solids</b>							
Total Solids	95	0.10	%	SM 2540G	09/04/14 11:00	lfs	
<b>Nutrients</b>							
Nitrite as N	ND	1.1	mg/kg dry	SM 4500NO2 B	09/05/14 18:30	lfs	
Ammonia-Nitrogen	4100	210	mg/Kg* dry	SM4500NH3H	09/05/14 15:56	sll	
Kjeldahl Nitrogen	43000	2100	mg/kg dry	EPA 351.2	09/05/14 17:25	sll	
Total Phosphorus	35000	21	mg/Kg* dry	EPA 6020	09/10/14 16:41	MEL	
<b>Metals and Metalloids; EPA SW846 Series</b>							
Antimony	ND	5.0	mg/kg dry	EPA 6020	09/09/14 14:09	ERA	
Arsenic	12	5.0	mg/kg dry	EPA 6020	09/09/14 14:09	ERA	
Barium	330	10	mg/kg dry	EPA 6020	09/09/14 14:09	ERA	
Beryllium	ND	1.0	mg/kg dry	EPA 6020	09/09/14 14:09	ERA	
Cadmium	1.9	1.0	mg/kg dry	EPA 6020	09/09/14 14:09	ERA	
Total Chromium	56	1.0	mg/kg dry	EPA 6020	09/09/14 14:09	ERA	
Cobalt	3.2	1.0	mg/kg dry	EPA 6020	09/09/14 14:09	ERA	
Copper	310	1.0	mg/kg dry	EPA 6020	09/09/14 14:09	ERA	
Lead	15	5.0	mg/kg dry	EPA 6020	09/09/14 14:09	ERA	
Mercury	0.83	0.42	mg/kg dry	EPA 7471A	09/10/14 11:41	ams	
Molybdenum	15	1.0	mg/kg dry	EPA 6020	09/09/14 14:09	ERA	
Nickel	18	1.0	mg/kg dry	EPA 6020	09/09/14 14:09	ERA	
Selenium	7.7	5.0	mg/kg dry	EPA 6020	09/09/14 14:09	ERA	
Silver	5.3	1.0	mg/kg dry	EPA 6020	09/09/14 14:09	ERA	
Thallium	ND	25	mg/kg dry	EPA 6020	09/09/14 14:09	ERA	
Vanadium	120	5.0	mg/kg dry	EPA 6020	09/09/14 14:09	ERA	
Zinc	910	5.0	mg/kg dry	EPA 6020	09/09/14 14:09	ERA	



**BABCOCK Laboratories, Inc.**  
*The Standard of Excellence for Over 100 Years*

Client Name: Victor Valley Reclamation Authority  
 Contact: Gina Cloutier  
 Address: 20111 Shay Road  
 Victorville, CA 92394

Analytical Report: Page 6 of 8  
 Project Name: VVWRA-Biosolids Sample - Ann  
 Project Number: Routine

**Work Order Number: B410377**

Report Date: 15-Sep-2014

Received on Ice (Y/N): Yes Temp: 7 °C

Laboratory Reference Number  
**B410377-05**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
140903-14 Staged From Drying Bed #4-8 (Class A) Biosolids (6 Grab-Comp)	Sludge	09/03/14 13:26	09/03/14 15:30

<u>Analyte(s)</u>	<u>Result</u>	<u>RDL</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
<b>Anions</b>							
Nitrate as N	150	2.2	mg/kg dry	EPA 300.0	09/04/14 06:05	dcb	N_WEX
<b>Solids</b>							
Total Solids	92	0.10	%	SM 2540G	09/04/14 11:00	lfs	
<b>Nutrients</b>							
Nitrite as N	ND	1.1	mg/kg dry	SM 4500NO2 B	09/05/14 18:30	lfs	
Ammonia-Nitrogen	4000	220	mg/Kg* dry	SM4500NH3H	09/05/14 15:58	sll	
Kjeldahl Nitrogen	37000	2200	mg/kg dry	EPA 351.2	09/05/14 17:26	sll	
Total Phosphorus	32000	22	mg/Kg* dry	EPA 6020	09/10/14 16:43	MEL	
<b>Metals and Metalloids; EPA SW846 Series</b>							
Antimony	ND	5.0	mg/kg dry	EPA 6020	09/09/14 14:11	ERA	
Arsenic	8.5	5.0	mg/kg dry	EPA 6020	09/09/14 14:11	ERA	
Barium	240	10	mg/kg dry	EPA 6020	09/09/14 14:11	ERA	
Beryllium	ND	1.0	mg/kg dry	EPA 6020	09/09/14 14:11	ERA	
Cadmium	1.4	1.0	mg/kg dry	EPA 6020	09/09/14 14:11	ERA	
Total Chromium	42	1.0	mg/kg dry	EPA 6020	09/09/14 14:11	ERA	
Cobalt	2.6	1.0	mg/kg dry	EPA 6020	09/09/14 14:11	ERA	
Copper	240	1.0	mg/kg dry	EPA 6020	09/09/14 14:11	ERA	
Lead	13	5.0	mg/kg dry	EPA 6020	09/09/14 14:11	ERA	
Mercury	1.1	0.43	mg/kg dry	EPA 7471A	09/10/14 11:43	ams	
Molybdenum	12	1.0	mg/kg dry	EPA 6020	09/09/14 14:11	ERA	
Nickel	14	1.0	mg/kg dry	EPA 6020	09/09/14 14:11	ERA	
Selenium	5.9	5.0	mg/kg dry	EPA 6020	09/09/14 14:11	ERA	
Silver	4.1	1.0	mg/kg dry	EPA 6020	09/09/14 14:11	ERA	
Thallium	ND	25	mg/kg dry	EPA 6020	09/09/14 14:11	ERA	
Vanadium	85	5.0	mg/kg dry	EPA 6020	09/09/14 14:11	ERA	
Zinc	700	5.0	mg/kg dry	EPA 6020	09/09/14 14:11	ERA	





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Client Name: Victor Valley Reclamation Authority  
 Contact: Gina Cloutier  
 Address: 20111 Shay Road  
 Victorville, CA 92394

Analytical Report: Page 7 of 8  
 Project Name: VVWRA-Biosolids Sample - Ann  
 Project Number: Routine

**Work Order Number: B410377**

Report Date: 15-Sep-2014

Received on Ice (Y/N): Yes Temp: 7 °C

Laboratory Reference Number  
**B410377-06**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
140903-15 Staged From Drying Bed #4-9 (Class A) Biosolids (6 Grab-Comp)	Sludge	09/03/14 13:20	09/03/14 15:30

<u>Analyte(s)</u>	<u>Result</u>	<u>RDL</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
<b>Anions</b>							
Nitrate as N	150	2.2	mg/kg dry	EPA 300.0	09/04/14 07:05	dcb	N_WEX
<b>Solids</b>							
Total Solids	93	0.10	%	SM 2540G	09/04/14 11:00	lfs	
<b>Nutrients</b>							
Nitrite as N	1.7	1.1	mg/kg dry	SM 4500NO2 B	09/05/14 18:30	lfs	
Ammonia-Nitrogen	3900	220	mg/Kg* dry	SM4500NH3H	09/05/14 15:59	sll	
Kjeldahl Nitrogen	41000	2200	mg/kg dry	EPA 351.2	09/05/14 17:27	sll	
Total Phosphorus	33000	22	mg/Kg* dry	EPA 6020	09/10/14 16:45	MEL	
<b>Metals and Metalloids; EPA SW846 Series</b>							
Antimony	ND	5.0	mg/kg dry	EPA 6020	09/09/14 14:12	ERA	
Arsenic	11	5.0	mg/kg dry	EPA 6020	09/09/14 14:12	ERA	
Barium	330	10	mg/kg dry	EPA 6020	09/09/14 14:12	ERA	
Beryllium	ND	1.0	mg/kg dry	EPA 6020	09/09/14 14:12	ERA	
Cadmium	1.8	1.0	mg/kg dry	EPA 6020	09/09/14 14:12	ERA	
Total Chromium	54	1.0	mg/kg dry	EPA 6020	09/09/14 14:12	ERA	
Cobalt	3.2	1.0	mg/kg dry	EPA 6020	09/09/14 14:12	ERA	
Copper	310	1.0	mg/kg dry	EPA 6020	09/09/14 14:12	ERA	
Lead	21	5.0	mg/kg dry	EPA 6020	09/09/14 14:12	ERA	
Mercury	0.89	0.43	mg/kg dry	EPA 7471A	09/10/14 11:48	ams	
Molybdenum	15	1.0	mg/kg dry	EPA 6020	09/09/14 14:12	ERA	
Nickel	18	1.0	mg/kg dry	EPA 6020	09/09/14 14:12	ERA	
Selenium	7.4	5.0	mg/kg dry	EPA 6020	09/09/14 14:12	ERA	
Silver	5.7	1.0	mg/kg dry	EPA 6020	09/09/14 14:12	ERA	
Thallium	ND	25	mg/kg dry	EPA 6020	09/09/14 14:12	ERA	
Vanadium	110	5.0	mg/kg dry	EPA 6020	09/09/14 14:12	ERA	
Zinc	880	5.0	mg/kg dry	EPA 6020	09/09/14 14:12	ERA	





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Client Name: Victor Valley Reclamation Authority  
Contact: Gina Cloutier  
Address: 20111 Shay Road  
Victorville, CA 92394

Analytical Report: Page 8 of 8  
Project Name: VVWRA-Biosolids Sample - Ann  
Project Number: Routine

**Work Order Number: B410377**

Report Date: 15-Sep-2014

Received on Ice (Y/N): Yes Temp: 7 °C

**Notes and Definitions**

N\_WEX Analyte determined on a 1:10 water extract from the sample.

ND: Analyte NOT DETECTED at or above the Method Detection Limit (if MDL is reported), otherwise at or above the Reportable Detection Limit (RDL)

NR: Not Reported

RDL: Reportable Detection Limit

MDL: Method Detection Limit

\* / ' ' : NELAP does not offer accreditation for this analyte/method/matrix combination

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**Approval**

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted. Babcock Laboratories and its officers and employees assume no responsibility and make no warranty, express or implied, for uses or interpretations made by any recipients, intended or unintended, of this report.

Digitally signed by: Cindy Waddell  
DN: CN = Cindy Waddell C = US O = Babcock  
Laboratories OU = Project Manager Assistant  
Date: 2014.09.15 12:12:45 -07'00'

---

cc:

*mailing*  
P.O. Box 432  
Riverside, CA 92502-0432

*location*  
6100 Quail Valley Court  
Riverside, CA 92507-0704

P 951 653 3351  
F 951 653 1662  
www.babcocklabs.com

e-Short\_No Alias

CA ELAP No. 2698  
EPA no. CA00102  
LACSD No., 10119



**BABCOCK Laboratories, Inc.**  
The Standard of Excellence for Over 100 Years

Client Name: Victor Valley Reclamation Authority  
Contact: Gina Cloutier  
Address: 20111 Shay Road  
Victorville, CA 92394

Analytical Report: Page 1 of 1  
Project Name: VVWRA-Biosolids Sample - Ann  
Project Number: Routine

Work Order Number: **B410377**

Report Date: 15-Sep-2014

Received on Ice (Y/N): Yes      Temp: 7 °C

**SUBCONTRACT LABORATORY CHAIN OF CUSTODY AND ANALYSIS REQUEST RECORD**

**Victor Valley Wastewater Reclamation Authority**

A Joint Powers Authority and Public Agency of the State of California  
Plant Address: 20111 Shay Road - Victorville, CA 92394 - TEL: (760) 246-8638 FAX: (760) 246-5440  
Administration Office Address: 15776 Main Street, Suite 3 - Hesperia, CA 92345 - TEL: (760) 948-9849  
Website: www.vvwra.com E-mail: gcloutier@vvwra.com



VVWRA ID #	Sample Location/Description	Sample Date	Sample Time	Sample Type	Laboratory Analyses Requested										Total # of Containers	Sample Preservation Methods		Sample Matrix (WV, DW, GW, SG)											
					Ammonia-N	Nitrite-N	Nitrate-N	Total Phosphate-P	CAM Metals	% Total Solids	Relinquished By (Sign):	Date/Time:	Received By (Sign):	Date/Time:		H <sub>2</sub> O <sub>2</sub> pit-2	Refrigeration												
14693-10	Staged From Drying Bed # 4 - 1 (Class A) Biosolids (6 Grab-Comp)	9-3-14	1310	Grab	X	X	X	X	X	X	X	X	X	X	X	X	X	1	X	1	SG								
14693-11	Staged From Drying Bed # 4 - 2 (Class A) Biosolids (6 Grab-Comp)	9-3-14	1335	Grab	X	X	X	X	X	X	X	X	X	X	X	X	X	1	X	1	SG								
14693-12	Staged From Drying Bed # 4 - 3 (Class A) Biosolids (6 Grab-Comp)	9-3-14	1345	Grab	X	X	X	X	X	X	X	X	X	X	X	X	X	1	X	1	SG								
14693-13	Staged From Drying Bed # 4 - 4 (Class A) Biosolids (6 Grab-Comp)	9-3-14	1340	Grab	X	X	X	X	X	X	X	X	X	X	X	X	X	1	X	1	SG								
14693-14	Staged From Drying Bed # 4 - 5 (Class A) Biosolids (6 Grab-Comp)	9-3-14	1326	Grab	X	X	X	X	X	X	X	X	X	X	X	X	X	1	X	1	SG								
14693-15	Staged From Drying Bed # 4 - 6 (Class A) Biosolids (6 Grab-Comp)	9-3-14	1320	Grab	X	X	X	X	X	X	X	X	X	X	X	X	X	1	X	1	SG								
14693-16	Staged From Drying Bed # 4 - 7 (Class A) Biosolids (6 Grab-Comp)	9-3-14	1310	Grab	X	X	X	X	X	X	X	X	X	X	X	X	X	1	X	1	SG								
14693-17	Staged From Drying Bed # 4 - 8 (Class A) Biosolids (6 Grab-Comp)	9-3-14	1320	Grab	X	X	X	X	X	X	X	X	X	X	X	X	X	1	X	1	SG								
14693-18	Staged From Drying Bed # 4 - 9 (Class A) Biosolids (6 Grab-Comp)	9-3-14	1320	Grab	X	X	X	X	X	X	X	X	X	X	X	X	X	1	X	1	SG								
14693-19	Staged From Drying Bed # 4 - 10 (Class A) Biosolids (6 Grab-Comp)	9-3-14	1320	Grab	X	X	X	X	X	X	X	X	X	X	X	X	X	1	X	1	SG								
Relinquished By (Sign): <i>[Signature]</i> Print: <i>Chad Steinman</i> Company: <i>VVWRA</i>					Relinquished By (Sign): <i>[Signature]</i> Print: <i>Chad Steinman</i> Company: <i>VVWRA</i>					Relinquished By (Sign): <i>[Signature]</i> Print: <i>Chad Steinman</i> Company: <i>VVWRA</i>					Relinquished By (Sign): <i>[Signature]</i> Print: <i>Chad Steinman</i> Company: <i>VVWRA</i>														
Received By (Sign): <i>[Signature]</i> Print: <i>Chad Steinman</i> Company: <i>VVWRA</i>					Received By (Sign): <i>[Signature]</i> Print: <i>Chad Steinman</i> Company: <i>VVWRA</i>					Received By (Sign): <i>[Signature]</i> Print: <i>Chad Steinman</i> Company: <i>VVWRA</i>					Received By (Sign): <i>[Signature]</i> Print: <i>Chad Steinman</i> Company: <i>VVWRA</i>														
Date/Time: 9-3-14 1355					Date/Time: 9-3-14 1530					Date/Time: 9-3-14 1530					Date/Time: 9-3-14 2:10														
Temperature: 7 °C					Temperature: 7 °C					Temperature: 7 °C					Temperature: 7 °C														
Samples Received on Ice? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					Samples Received on Ice? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					Samples Received on Ice? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					Samples Received on Ice? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No														
Samples Received Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					Samples Received Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					Samples Received Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					Samples Received Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No														
Sample Condition Upon Receipt by Laboratory:										Laboratory Notes										Samples sent via courier to:									
Samples Received on Ice? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No										Report as dry wt.										E.S. Babcock Laboratories									
Samples Received Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																				Lab # <b>SEP-03-2014</b>									

5410377 AP  
SEP-03-2014

Please Fax a copy of the completed Chain of Custody document to: Gina Cloutier, VVWRA at (760) 246-5440

mailing  
P.O. Box 432  
Riverside, CA 92502-0432

location  
6100 Quail Valley Court  
Riverside, CA 92507-0704

P 951 653 3351  
F 951 653 1662  
www.babcocklabs.com

CA ELAP No. 2698  
EPA no. CA00102  
LACSD No., 10119



# BIOSOLIDS SAMPLE DATA SHEET

(Please fill out applicable areas, sign and return to BioVir with the sample.)

Phone: 1-800-GIARDIA Fax: 707-747-1751 WEB: [www.biovir.com](http://www.biovir.com)  
 Note: Please print clearly using waterproof ink.

LAB USE ONLY:  
 LIMS #: 1248-1  
 Client #: VI COOL  
 Date Rec'd: 9/3/14  
 Time Rec'd: 10:28  
 Temp Rec'd: 0.9°C

*no insulation but buy samples*

COMPANY NAME & ADDRESS: <u>Victor Valley Wastewater Reclamation Authority</u> <u>2011 Shay Road Victorville, Ca 92394</u>	DATE OF SAMPLING: <u>9-3-14</u>
Contact Name: <u>Chris Wilks</u> Tel: <u>160 246-8038 x216</u>	TIME OF SAMPLING: <u>1310</u>
NAME OF SAMPLER: <u>Chad Steward</u>	SAMPLE ID: <u>140903-10</u>
LOCATION OF SAMPLING: <u>Diving Bed # 4-1</u>	TYPE OF SAMPLE: <u>6 GRAB COMPOSITE</u>
TREATMENT CHARACTERISTICS: <u>Class A - Anaerobic digested</u>	TOTAL SOLIDS PERCENTAGE:  % (MUST BE INCLUDED IN ORDER TO BEGIN ANALYSIS)
SAMPLE VOLUME (WET WEIGHT): <u>~ 300g (w)</u>	

HOLD TIMES (Store and ship cold)	ENTERIC VIRUS	HELMINTH OVA	SALMONELLA	FECAL COLIFORM
	2 Weeks	1 Month	6 Hours*	6 Hours*

439.43 g

\* Per 40 CFR Parts 136 and 503 (Monday, March 26, 2007) Guidelines Establishing Test Procedures for the Analysis of Pollutants. Analytical Methods for Biological Pollutants in Wastewater and Sewage Sludge. Final Rule Table II (Table 1A) establishes a holding time of 6 hours for Coliform, total, fecal and *E. coli*, Fecal Streptococci, Enterococci, and Salmonella. For fecal coliform samples for sewage sludge (biosolids) only, the holding time is extended to 24 hours for Class A composted, Class B aerobically digested and Class B anaerobically digested biosolids using EPA Method 1680 (LTB-EC) or EPA Method 1681 (A-1).

A holding time variance is allowed from your Regional Administrator under Section 136.3(e). Please refer to the Final Rule for details.

<input checked="" type="checkbox"/> OK TO RUN PAST 6 HOUR HOLD TIME  <input type="checkbox"/> SAMPLE COMPRISED OF CLASS A COMPOSTED, CLASS B AEROBICALLY OR ANAEROBICALLY DIGESTED BIOSOLIDS (FECAL COLIFORM TEST ONLY).	Print Name: <u>Chris Wilks</u>	<u>9-3-14</u>
	Signature: <u>[Signature]</u>	Date

ASSAY(S) TO BE PERFORMED - (PLEASE CHECK)					
ANALYTICAL STANDARD	ENTERIC VIRUS ASTM D 4994-89	HELMINTH OVA EPA 625/R-92/013	SALMONELLA EPA 1682	FECAL COLIFORM EPA 1681	TOTAL SOLIDS EPA 1684
CLASS "A"	X	X	X	X	X
CLASS "B"					

COMMENTS:

RELINQUISHED BY (SIGNED)	RECEIVED BY (SIGNED)	DATE	TIME
<u>[Signature]</u>	<u>[Signature]</u>	<u>9/4/14</u>	<u>10:28</u>

SHIPPING ADDRESS: BIOVIR LABORATORIES, INC. 685 STONE ROAD, UNIT 6, BENICIA CALIFORNIA 94510

*Fed Ex  
Ziploc*



# BIOSOLIDS SAMPLE DATA SHEET

(Please fill out applicable areas, sign and return to BioVir with the sample.)

Phone: 1-800-GIARDIA Fax: 707-747-1751 WEB: [www.biovir.com](http://www.biovir.com)  
Note: Please print clearly using waterproof ink.

LAB USE ONLY:	
LIMS #:	1248-2
Client #:	VIC001
Date Rec'd:	9/4/14
Time Rec'd:	10:28
Temp Rec'd:	0.9°C

COMPANY NAME & ADDRESS: Victor Valley Waste Water Reclamation Authority 2011 Hwy Road Victorville, Ca 92394	DATE OF SAMPLING: 9-3-14
Contact Name: Chris Willis Tel: 760 246-8636 x216	TIME OF SAMPLING: 1335
NAME OF SAMPLER: Chad Steinwald	SAMPLE ID: 140907-11
LOCATION OF SAMPLING: Diving Pool # 4-2	TYPE OF SAMPLE: <u>6 GRAB</u> COMPOSITE
TREATMENT CHARACTERISTICS: Class A - Anaerobic digested	TOTAL SOLIDS PERCENTAGE:  % (MUST BE INCLUDED IN ORDER TO BEGIN ANALYSIS)
SAMPLE VOLUME (WET WEIGHT): ~ 300 grams	

HOLD TIMES (Store and ship cold)	ENTERIC VIRUS	HELMINTH OVA	SALMONELLA	FECAL COLIFORM
	2 Weeks	1 Month	6 Hours*	6 Hours*

510.3 g

\* Per 40 CFR Parts 136 and 503 (Monday, March 26, 2007) Guidelines Establishing Test Procedures for the Analysis of Pollutants: Analytical Methods for Biological Pollutants in Wastewater and Sewage Sludge: Final Rule Table II (Table 1A) establishes a holding time of 6 hours for Coliform, total, fecal and *E. coli*, Fecal Streptococci, Enterococci, and Salmonella. For fecal coliform samples for sewage sludge (biosolids) only, the holding time is extended to 24 hours for Class A composted, Class B aerobically digested and Class B anaerobically digested biosolids using EPA Method 1680 (LTB-EC) or EPA Method 1681 (A-1).

A holding time variance is allowed from your Regional Administrator under Section 136.3(e). Please refer to the Final Rule for details.

<input checked="" type="checkbox"/> OK TO RUN PAST 6 HOUR HOLD TIME  <input type="checkbox"/> SAMPLE COMPRISED OF CLASS A COMPOSTED, CLASS B AEROBICALLY OR ANAEROBICALLY DIGESTED BIOSOLIDS (FECAL COLIFORM TEST ONLY).	Print Name: Chris Willis	Date: 9-3-14
	Signature: 	Date: 9-3-14

ASSAY(S) TO BE PERFORMED - (PLEASE CHECK)					
ANALYTICAL STANDARD	ENTERIC VIRUS ASTM D 4994-89	HELMINTH OVA EPA 625/R-92/013	SALMONELLA EPA 1682	FECAL COLIFORM EPA 1681	TOTAL SOLIDS EPA 1634
CLASS "A"	X	X	X	X	X
CLASS "B"					

COMMENTS:

RELINQUISHED BY (SIGNED)	RECEIVED BY (SIGNED)	DATE	TIME
		9/4/14	10:28

SHIPPING ADDRESS: BIOVIR LABORATORIES, INC., 585 STONE ROAD, UNIT 6, BENICIA CALIFORNIA 94510





# BIOSOLIDS SAMPLE DATA SHEET

(Please fill out applicable areas, sign and return to BioVir with the sample.)

Phone: 1-800-GIARDIA Fax: 707-747-1751 WEB: [www.biovir.com](http://www.biovir.com)  
Note: Please print clearly using waterproof ink.

LAB USE ONLY:	
LIMS #:	248-3
Client #:	VIC001
Date Rec'd:	9/4/14
Time Rec'd:	10:28
Temp Rec'd:	2.9°C

COMPANY NAME & ADDRESS: Victor Valley Waste Water Reclamation Authority 2011 Hwy Road Victorville, Ca 92394	DATE OF SAMPLING: 9-3-14
Contact Name: <i>Chris Wells</i> Tel: 760 246-2658 x216	TIME OF SAMPLING: 1345
NAME OF SAMPLER: <i>Chad Siderman</i>	SAMPLE ID: 142903-12
LOCATION OF SAMPLING: <i>Drying Bed # 4-3</i>	TYPE OF SAMPLE: <u>6 GRAB</u> COMPOSITE
TREATMENT CHARACTERISTICS: <i>Class A - Anaerobic digested</i>	TOTAL SOLIDS PERCENTAGE:  % (MUST BE INCLUDED IN ORDER TO BEGIN ANALYSIS)
SAMPLE VOLUME (WET WEIGHT): <i>~ 300g (wet)</i>	

HOLD TIMES (Store and ship cold)	ENTERIC VIRUS	HELMINTH OVA	SALMONELLA	FECAL COLIFORM
	2 Weeks	1 Month	6 Hours*	6 Hours*

418.169

\* Per 40 CFR Parts 136 and 503 (Monday, March 26, 2007) Guidelines Establishing Test Procedures for the Analysis of Pollutants, Analytical Methods for Biological Pollutants in Wastewater and Sewage Sludge: Final Rule Table II (Table 1A) establishes a holding time of 6 hours for Coliform, total, fecal and *E. coli*, Fecal Streptococci, Enterococci, and Salmonella. For fecal coliform samples for sewage sludge (biosolids) only, the holding time is extended to 24 hours for Class A composted, Class B aerobically digested and Class B anaerobically digested biosolids using EPA Method 1680 (LTB-EC) or EPA Method 1681 (A-1).

A holding time variance is allowed from your Regional Administrator under Section 136.3(e). Please refer to the Final Rule for details.

<input checked="" type="checkbox"/> OK TO RUN PAST 6 HOUR HOLD TIME	Print Name: <i>Chris Wells</i>	Date: <i>9-3-14</i>
<input type="checkbox"/> SAMPLE COMPRISED OF CLASS A COMPOSTED, CLASS B AEROBICALLY OR ANAEROBICALLY DIGESTED BIOSOLIDS (FECAL COLIFORM TEST ONLY).	Signature: <i>[Signature]</i>	Date:

ASSAY(S) TO BE PERFORMED - (PLEASE CHECK)					
ANALYTICAL STANDARD	ENTERIC VIRUS ASTM D 4994-89	HELMINTH OVA EPA 825/R-92/013	SALMONELLA EPA 1682	FECAL COLIFORM EPA 1681	TOTAL SOLIDS EPA 1684
CLASS "A"	X	X	X	X	X
CLASS "B"					

COMMENTS:

RELINQUISHED BY (SIGNED)	RECEIVED BY (SIGNED)	DATE	TIME
<i>[Signature]</i>	<i>[Signature]</i>	9/4/14	10:28

SHIPPING ADDRESS: BIOVIR LABORATORIES, INC., 685 STONE ROAD, UNIT 6, BENICIA CALIFORNIA. 94510



# BIOSOLIDS SAMPLE DATA SHEET

(Please fill out applicable areas, sign and return to BioVir with the sample.)

Phone: 1-800-GIARDIA Fax: 707-747-1751 WEB: [www.biovir.com](http://www.biovir.com)  
Note: Please print clearly using waterproof ink.

LAB USE ONLY:	
LIMS #:	1248-4
Client #:	VI-C001
Date Rec'd:	9/4/14
Time Rec'd:	10:28
Temp Rec'd:	0.9°C

COMPANY NAME & ADDRESS: Victor Valley Waste Water Reclamation Authority 20111 Shuy Road Victorville, Ca 92394	DATE OF SAMPLING: 9-3-14
Contact Name: <u>Chris Wills</u> Tel: 760 246-8638 x216	TIME OF SAMPLING: 1340
NAME OF SAMPLER: <u>Chris Stenward</u>	SAMPLE ID: <u>140903-13</u>
LOCATION OF SAMPLING: <u>Diving Pool # 4-7</u>	TYPE OF SAMPLE: <u>6 GRAB</u> COMPOSITE
TREATMENT CHARACTERISTICS: <u>Class A - Anaerobic digested</u>	TOTAL SOLIDS PERCENTAGE:  % (MUST BE INCLUDED IN ORDER TO BEGIN ANALYSIS)
SAMPLE VOLUME (WET WEIGHT): <u>~ 300 grams</u>	

HOLD TIMES (Store and ship cold)	ENTERIC VIRUS	HELMINTH OVA	SALMONELLA	FECAL COLIFORM
	2 Weeks	1 Month	6 Hours*	6 Hours*

411.089

\* Per 40 CFR Parts 136 and 503 (Monday, March 26, 2007) Guidelines Establishing Test Procedures for the Analysis of Pollutants; Analytical Methods for Biological Pollutants in Wastewater and Sewage Sludge; Final Rule Table II (Table 1A) establishes a holding time of 6 hours for Coliform, total, fecal and E. coli, Fecal Streptococci, Enterococci, and Salmonella. For fecal coliform samples for sewage sludge (biosolids) only, the holding time is extended to 24 hours for Class A composted, Class B aerobically digested and Class B anaerobically digested biosolids using EPA Method 1680 (LTB-EC) or EPA Method 1681 (A-1).

A holding time variance is allowed from your Regional Administrator under Section 136.3(e). Please refer to the Final Rule for details.

<input checked="" type="checkbox"/> OK TO RUN PAST 6 HOUR HOLD TIME  <input type="checkbox"/> SAMPLE COMPRISED OF CLASS A COMPOSTED, CLASS B AEROBICALLY OR ANAEROBICALLY DIGESTED BIOSOLIDS (FECAL COLIFORM TEST ONLY).	Print Name: <u>Chris Wills</u>	<u>9-3-14</u>
	Signature: <u>[Signature]</u>	Date

ASSAY(S) TO BE PERFORMED - (PLEASE CHECK)					
ANALYTICAL STANDARD	ENTERIC VIRUS ASTM D 4994-89	HELMINTH OVA EPA 625/R-92/013	SALMONELLA EPA 1682	FECAL COLIFORM EPA 1681	TOTAL SOLIDS EPA 1684
CLASS "A"	X	X	X	X	X
CLASS "B"					

COMMENTS:

RELINQUISHED BY (SIGNED)	RECEIVED BY (SIGNED)	DATE	TIME
<u>[Signature]</u>	<u>[Signature]</u>	<u>9/4/14</u>	<u>10:28</u>

SHIPPING ADDRESS: BIOVIR LABORATORIES, INC., 685 STONE ROAD, UNIT 6, BENICIA CALIFORNIA 94510



# BIOSOLIDS SAMPLE DATA SHEET

(Please fill out applicable areas, sign and return to BioVir with the sample.)

LAB USE ONLY:  
 LIMS #: 1248-5  
 Client #: VIC001  
 Date Rec'd: 9/14/14  
 Time Rec'd: 10:28  
 Temp Rec'd: 0.9°C

Phone: 1-800-GIARDIA Fax: 707-747-1751 WEB [www.biovir.com](http://www.biovir.com)  
 Note: Please print clearly using waterproof ink.

COMPANY NAME & ADDRESS: <u>Victor Valley Waste Water Reclamation Authority</u> <u>2011 Shay Road Victor, CA. 92394</u>		DATE OF SAMPLING: <u>9-3-14</u>
Contact Name: <u>Chris Wilk</u> Tel. <u>760 246-8038 x216</u>		TIME OF SAMPLING: <u>1326</u>
NAME OF SAMPLER: <u>Chad Stearns</u>		SAMPLE ID: <u>140907-14</u>
LOCATION OF SAMPLING: <u>Dixey Pool # 4-8</u>		TYPE OF SAMPLE: <u>6 GRAB COMPOSITE</u>
TREATMENT CHARACTERISTICS: <u>Class A - Anaerobic digested</u>		TOTAL SOLIDS PERCENTAGE:  % (MUST BE INCLUDED IN ORDER TO BEGIN ANALYSIS)
SAMPLE VOLUME (WET WEIGHT): <u>~ 300g (am)</u>		

HOLD TIMES (Store and ship cold)	ENTERIC VIRUS	HELMINTH OVA	SALMONELLA	FECAL COLIFORM
	2 Weeks	1 Month	6 Hours*	6 Hours*

481.959

\* Per 40 CFR Parts 136 and 503 (Monday, March 26, 2007) Guidelines Establishing Test Procedures for the Analysis of Pollutants; Analytical Methods for Biological Pollutants in Wastewater and Sewage Sludge; Final Rule Table II (Table 1A) establishes a holding time of 6 hours for Coliform, total, fecal and *E. coli*, Fecal Streptococci, Enterococci, and Salmonella. For fecal coliform samples for sewage sludge (biosolids) only, the holding time is extended to 24 hours for Class A composted, Class B aerobically digested and Class B anaerobically digested biosolids using EPA Method 1680 (LTB-EC) or EPA Method 1681 (A-1).

A holding time variance is allowed from your Regional Administrator under Section 136.3(e). Please refer to the Final Rule for details.

<input checked="" type="checkbox"/> OK TO RUN PAST 6 HOUR HOLD TIME  <input type="checkbox"/> SAMPLE COMPRISED OF CLASS A COMPOSTED, CLASS B AEROBICALLY OR ANAEROBICALLY DIGESTED BIOSOLIDS (FECAL COLIFORM TEST ONLY).	Print Name: <u>Chris Wilk</u>	<u>9-3-14</u>
	Signature: <u>[Signature]</u>	Date

ASSAY(S) TO BE PERFORMED - (PLEASE CHECK)					
ANALYTICAL STANDARD	ENTERIC VIRUS ASTM D 4994-89	HELMINTH OVA EPA 625/R-92/013	SALMONELLA EPA 1682	FECAL COLIFORM EPA 1681	TOTAL SOLIDS EPA 1684
CLASS "A"	X	X	X	X	X
CLASS "B"					

COMMENTS:

RELINQUISHED BY (SIGNED)	RECEIVED BY (SIGNED)	DATE	TIME
<u>[Signature]</u>	<u>Jmc</u>	<u>9/14/14</u>	<u>10:28</u>

SHIPPING ADDRESS: BIOVIR LABORATORIES, INC., 685 STONE ROAD, UNIT 6, BENICIA CALIFORNIA 94510



# BIOSOLIDS SAMPLE DATA SHEET

(Please fill out applicable areas, sign and return to BioVir with the sample.)

Phone: 1-800-GIARDIA Fax: 707-747-1751 WEB: www.biovir.com  
Note: Please print clearly using waterproof ink.

LAB USE ONLY:	
LIMS #:	1248-6
Client #:	VIC001
Date Rec'd:	9/4/14
Time Rec'd:	10:28
Temp Rec'd:	0.9°C

COMPANY NAME & ADDRESS: Victor Valley Waste Water Reclamation Authority 2011 Hwy Road Victorville, Ca. 92394	DATE OF SAMPLING: 9-3-14
Contact Name: Chris Willis Tel: 160 246-2658 x216	TIME OF SAMPLING: 1320
NAME OF SAMPLER: Chad Stearnand	SAMPLE ID: 145903-15
LOCATION OF SAMPLING: Drying Bed # 4-9	TYPE OF SAMPLE: <u>6 GRAB</u> COMPOSITE
TREATMENT CHARACTERISTICS: Class A - Anaerobic digested	TOTAL SOLIDS PERCENTAGE:  % (MUST BE INCLUDED IN ORDER TO BEGIN ANALYSIS)
SAMPLE VOLUME (WET WEIGHT): ~ 300g (am)	

HOLD TIMES (Store and ship cold)	ENTERIC VIRUS	HELMINTH OVA	SALMONELLA	FECAL COLIFORM
	2 Weeks	1 Month	6 Hours*	6 Hours*

489.04 g

\* Per 40 CFR Parts 136 and 503 (Monday, March 26, 2007) Guidelines Establishing Test Procedures for the Analysis of Pollutants: Analytical Methods for Biological Pollutants in Wastewater and Sewage Sludge: Final Rule Table II (Table 1A) establishes a holding time of 6 hours for Coliform, total, fecal and E. coli, Fecal Streptococci, Enterococci, and Salmonella. For fecal coliform samples for sewage sludge (biosolids) only, the holding time is extended to 24 hours for Class A composted, Class B aerobically digested and Class B anaerobically digested biosolids using EPA Method 1680 (LTB-EC) or EPA Method 1681 (A-1).

A holding time variance is allowed from your Regional Administrator under Section 136.3(e). Please refer to the Final Rule for details.

<input checked="" type="checkbox"/> OK TO RUN PAST 6 HOUR HOLD TIME  <input type="checkbox"/> SAMPLE COMPRISED OF CLASS A COMPOSTED, CLASS B AEROBICALLY OR ANAEROBICALLY DIGESTED BIOSOLIDS (FECAL COLIFORM TEST ONLY).	Print Name: Chris Willis	Date: 9-3-14
	Signature: 	Date: 9-3-14

ASSAY(S) TO BE PERFORMED - (PLEASE CHECK)					
ANALYTICAL STANDARD	ENTERIC VIRUS ASTM D 4994-89	HELMINTH OVA EPA 625/R-92/013	SALMONELLA EPA 1682	FECAL COLIFORM EPA 1681	TOTAL SOLIDS EPA 1684
CLASS 'A'	X	X	X	X	X
CLASS 'B'					

COMMENTS:

RELINQUISHED BY (SIGNED)	RECEIVED BY (SIGNED)	DATE	TIME
		9/4/14	10:28

SHIPPING ADDRESS: BIOVIR LABORATORIES, INC., 685 STONE ROAD, UNIT 6, BENICIA CALIFORNIA 94510





BioVir Laboratories, Inc



685 Stone Road, Unit 6 • Benicia, CA 94510 • (707) 747-5906 • 1-800-GIARDIA • FAX (707) 747-1751 • WEB: www.biovir.com

**REPORT NO.:** 141248  
**PAGE NO.:** 1 of 8  
**CLIENT:** Victor Valley Wastewater Reclamation Authority  
**ADDRESS:** 20111 Shay Road  
 Victorville, CA 92394  
**CLIENT NO:** VIC001      **CLIENT PO:** N/A

**ASSAY RESULTS:**

**Test: 1682 Salmonella MSRV      Method: EPA 1682**

BioVir #	Sample ID	Site	Analyte	Result	Units
141248-001	140903-10	Drying Bed #4-1	Salmonella spp.	<0.3	MPN/4 g TS
Collector: Chad Steinward      CollectDate: 9/3/2014      CollectTime: 1:10:00 PM ReceiveDate 9/4/2014 10:28:00 AM      Matrix: Biosoilds      Temp 0.9 C Volume: 439.43 g      Analysis Start Date: 9/4/2014      Analysis Start Time: 1355 Analyst: JTruscott      Analysis End: 9/8/2014 Comment					
141248-002	140903-11	Drying Bed #4-2	Salmonella spp.	<0.3	MPN/4 g TS
Collector: Chad Steinward      CollectDate: 9/3/2014      CollectTime: 1:35:00 PM ReceiveDate 9/4/2014 10:28:00 AM      Matrix: Biosoilds      Temp 0.9 C Volume: 510.30 g      Analysis Start Date: 9/4/2014      Analysis Start Time: 1355 Analyst: JTruscott      Analysis End: 9/8/2014 Comment					
141248-003	140903-12	Drying Bed #4-3	Salmonella spp.	<0.3	MPN/4 g TS
Collector: Chad Steinward      CollectDate: 9/3/2014      CollectTime: 1:45:00 PM ReceiveDate 9/4/2014 10:28:00 AM      Matrix: Biosoilds      Temp 0.9 C Volume: 418.16 g      Analysis Start Date: 9/4/2014      Analysis Start Time: 1355 Analyst: JTruscott      Analysis End: 9/8/2014 Comment					
141248-004	140903-13	Drying Bed #4-7	Salmonella spp.	<0.3	MPN/4 g TS
Collector: Chad Steinward      CollectDate: 9/3/2014      CollectTime: 1:40:00 PM ReceiveDate 9/4/2014 10:28:00 AM      Matrix: Biosoilds      Temp 0.9 C Volume: 411.08 g      Analysis Start Date: 9/4/2014      Analysis Start Time: 1355 Analyst: JTruscott      Analysis End: 9/8/2014 Comment					

**REPORT NO.:** 141248  
**PAGE NO.:** 2 of 8  
**CLIENT:** Victor Valley Wastewater Reclamation Authority  
**ADDRESS:** 20111 Shay Road  
 Victorville, CA 92394  
**CLIENT NO:** VIC001 **CLIENT PO:** N/A

**ASSAY RESULTS:**

**Test: 1682 Salmonella MSRV Method: EPA 1682**

BioVir #	Sample ID	Site	Analyte	Result	Units
141248-005	140903-14	Drying Bed #4-8	Salmonella spp.	<0.3	MPN/4 g TS
Collector: Chad Steinward CollectDate: 9/3/2014 CollectTime: 1:26:00 PM ReceiveDate 9/4/2014 10:28:00 AM Matrix: Biosoilds Temp 0.9 C Volume: 481.95 g Analysis Start Date: 9/4/2014 Analysis Start Time: 1355 Analyst: JTruscott Analysis End: 9/8/2014 Comment					

141248-006	140903-15	Drying Bed #4-9	Salmonella spp.	<0.3	MPN/4 g TS
Collector: Chad Steinward CollectDate: 9/3/2014 CollectTime: 1:20:00 PM ReceiveDate 9/4/2014 10:28:00 AM Matrix: Biosoilds Temp 0.9 C Volume: 489.04 g Analysis Start Date: 9/4/2014 Analysis Start Time: 1355 Analyst: JTruscott Analysis End: 9/8/2014 Comment					

**Test: Coliform, Fecal Method: EPA 1681**

BioVir #	Sample ID	Site	Analyte	Result	Units
141248-001	140903-10	Drying Bed #4-1	Coliform, Fecal	18.6	MPN/1 g Total Solids
Collector: Chad Steinward CollectDate: 9/3/2014 CollectTime: 1:10:00 PM ReceiveDate 9/4/2014 10:28:00 AM Matrix: Biosoilds Temp 0.9 C Volume: 439.43 g Analysis Start Date: 9/4/2014 Analysis Start Time: 1355 Analyst: JTruscott Analysis End: 9/8/2014 Comment					

141248-002	140903-11	Drying Bed #4-2	Coliform, Fecal	0.5	MPN/1 g Total Solids
Collector: Chad Steinward CollectDate: 9/3/2014 CollectTime: 1:35:00 PM ReceiveDate 9/4/2014 10:28:00 AM Matrix: Biosoilds Temp 0.9 C Volume: 510.30 g Analysis Start Date: 9/4/2014 Analysis Start Time: 1355 Analyst: JTruscott Analysis End: 9/8/2014 Comment					



**REPORT NO.:** 141248  
**PAGE NO.:** 4 of 8  
**CLIENT:** Victor Valley Wastewater Reclamation Authority  
**ADDRESS:** 20111 Shay Road  
 Victorville, CA 92394  
**CLIENT NO** VIC001 **CLIENT PO:** N/A

**ASSAY RESULTS:**

**Test:** Enteric Virus **Method:** ASTM D 4994-89

BioVir #	Sample ID	Site	Analyte	Result	Units
141248-001	140903-10	Drying Bed #4-1	Enteric Virus	<1	pfu/4 g TS
Collector: Chad Steinward      CollectDate: 9/3/2014      CollectTime: 1:10:00 PM ReceiveDate 9/4/2014 10:28:00 AM      Matrix: Biosoilds      Temp 0.9 C Volume: 439.43 g      Analysis Start Date: 9/8/2014      Analysis Start Time: 0900 Analyst: ElenaS      Analysis End: 9/19/2014 Comment					
141248-002	140903-11	Drying Bed #4-2	Enteric Virus	<1	pfu/4 g TS
Collector: Chad Steinward      CollectDate: 9/3/2014      CollectTime: 1:35:00 PM ReceiveDate 9/4/2014 10:28:00 AM      Matrix: Biosoilds      Temp 0.9 C Volume: 510.30 g      Analysis Start Date: 9/8/2014      Analysis Start Time: 0900 Analyst: ElenaS      Analysis End: 9/19/2014 Comment					
141248-003	140903-12	Drying Bed #4-3	Enteric Virus	<1	pfu/4 g TS
Collector: Chad Steinward      CollectDate: 9/3/2014      CollectTime: 1:45:00 PM ReceiveDate 9/4/2014 10:28:00 AM      Matrix: Biosoilds      Temp 0.9 C Volume: 418.16 g      Analysis Start Date: 9/8/2014      Analysis Start Time: 0900 Analyst: ElenaS      Analysis End: 9/19/2014 Comment					
141248-004	140903-13	Drying Bed #4-7	Enteric Virus	<1	pfu/4 g TS
Collector: Chad Steinward      CollectDate: 9/3/2014      CollectTime: 1:40:00 PM ReceiveDate 9/4/2014 10:28:00 AM      Matrix: Biosoilds      Temp 0.9 C Volume: 411.08 g      Analysis Start Date: 9/8/2014      Analysis Start Time: 0900 Analyst: ElenaS      Analysis End: 9/19/2014 Comment					
141248-005	140903-14	Drying Bed #4-8	Enteric Virus	<1	pfu/4 g TS
Collector: Chad Steinward      CollectDate: 9/3/2014      CollectTime: 1:26:00 PM ReceiveDate 9/4/2014 10:28:00 AM      Matrix: Biosoilds      Temp 0.9 C Volume: 481.95 g      Analysis Start Date: 9/8/2014      Analysis Start Time: 0900 Analyst: ElenaS      Analysis End: 9/19/2014 Comment					



**REPORT NO.:** 141248  
**PAGE NO.:** 5 of 8  
**CLIENT:** Victor Valley Wastewater Reclamation Authority  
**ADDRESS:** 20111 Shay Road  
 Victorville, CA 92394  
**CLIENT NO:** VIC001      **CLIENT PO:** N/A

**ASSAY RESULTS:**

**Test:** Enteric Virus      **Method:** ASTM D 4994-89

BioVir #	Sample ID	Site	Analyte	Result	Units
141248-006	140903-15	Drying Bed #4-9	Enteric Virus	<1	pfu/4 g TS
Collector: Chad Steinward      CollectDate: 9/3/2014      CollectTime: 1:20:00 PM ReceiveDate 9/4/2014 10:28:00 AM      Matrix: Biosoilds      Temp 0.9 C Volume: 489.04 g      Analysis Start Date: 9/8/2014      Analysis Start Time: 0900 Analyst: ElenaS      Analysis End: 9/19/2014 Comment					

**Test:** Helminth Ova      **Method:** EPA/625/R-92/013

BioVir #	Sample ID	Site	Analyte	Result	Units
141248-001	140903-10	Drying Bed #4-1	Helminth Ova	<1	Helminth Ova observed / 4 g Total Solids
Collector: Chad Steinward      CollectDate: 9/3/2014      CollectTime: 1:10:00 PM ReceiveDate 9/4/2014 10:28:00 AM      Matrix: Biosoilds      Temp 0.9 C Volume: 439.43 g      Analysis Start Date: 9/8/2014      Analysis Start Time: 1435 Analyst: SMullaney      Analysis End: 10/10/2014 Comment					
141248-002	140903-11	Drying Bed #4-2	Helminth Ova	<1	Helminth Ova observed / 4 g Total Solids
Collector: Chad Steinward      CollectDate: 9/3/2014      CollectTime: 1:35:00 PM ReceiveDate 9/4/2014 10:28:00 AM      Matrix: Biosoilds      Temp 0.9 C Volume: 510.30 g      Analysis Start Date: 9/8/2014      Analysis Start Time: 1435 Analyst: SMullaney      Analysis End: 10/10/2014 Comment					

**REPORT NO.:** 141248  
**PAGE NO.:** 6 of 8  
**CLIENT:** Victor Valley Wastewater Reclamation Authority  
**ADDRESS:** 20111 Shay Road  
 Victorville, CA 92394  
**CLIENT NO:** VIC001      **CLIENT PO:** N/A

**ASSAY RESULTS:**

**Test:** Helminth Ova      **Method:** EPA/625/R-92/013

BioVir #	Sample ID	Site	Analyte	Result	Units
141248-003	140903-12	Drying Bed #4-3	Helminth Ova	<1	Helminth Ova observed / 4 g Total Solids
Collector: Chad Steinward      CollectDate: 9/3/2014      CollectTime: 1:45:00 PM ReceiveDate 9/4/2014 10:28:00 AM      Matrix: Biosolids      Temp 0.9 C Volume: 418.16 g      Analysis Start Date: 9/8/2014      Analysis Start Time: 1435 Analyst: SMullaney      Analysis End: 10/10/2014 Comment					
141248-004	140903-13	Drying Bed #4-7	Helminth Ova	<1	Helminth Ova observed / 4 g Total Solids
Collector: Chad Steinward      CollectDate: 9/3/2014      CollectTime: 1:40:00 PM ReceiveDate 9/4/2014 10:28:00 AM      Matrix: Biosolids      Temp 0.9 C Volume: 411.08 g      Analysis Start Date: 9/8/2014      Analysis Start Time: 1435 Analyst: SMullaney      Analysis End: 10/10/2014 Comment					
141248-005	140903-14	Drying Bed #4-8	Helminth Ova	<1	Helminth Ova observed / 4 g Total Solids
Collector: Chad Steinward      CollectDate: 9/3/2014      CollectTime: 1:26:00 PM ReceiveDate 9/4/2014 10:28:00 AM      Matrix: Biosolids      Temp 0.9 C Volume: 481.95 g      Analysis Start Date: 9/8/2014      Analysis Start Time: 1435 Analyst: SMullaney      Analysis End: 10/10/2014 Comment					
141248-006	140903-15	Drying Bed #4-9	Helminth Ova	<1	Helminth Ova observed / 4 g Total Solids
Collector: Chad Steinward      CollectDate: 9/3/2014      CollectTime: 1:20:00 PM ReceiveDate 9/4/2014 10:28:00 AM      Matrix: Biosolids      Temp 0.9 C Volume: 489.04 g      Analysis Start Date: 9/8/2014      Analysis Start Time: 1435 Analyst: SMullaney      Analysis End: 10/10/2014 Comment					

**REPORT NO.:** 141248  
**PAGE NO.:** 7 of 8  
**CLIENT:** Victor Valley Wastewater Reclamation Authority  
**ADDRESS:** 20111 Shay Road  
 Victorville, CA 92394  
**CLIENT NO** VIC001 **CLIENT PO:** N/A

**ASSAY RESULTS:**

Test: Total Solids		Method: SM2540B			
BioVir #	Sample ID	Site	Analyte	Result	Units
141248-001	140903-10	Drying Bed #4-1	Total Solids (%)	92.6	% Total Solids
Collector: Chad Steinward		CollectDate: 9/3/2014	CollectTime: 1:10:00 PM		
ReceiveDate 9/4/2014 10:28:00 AM		Matrix: Biosolids	Temp 0.9 C		
Volume: 439.43 g		Analysis Start Date: 9/4/2014	Analysis Start Time: 1640		
Analyst: MPhilbrook		Analysis End: 9/5/2014			
Comment					
141248-002	140903-11	Drying Bed #4-2	Total Solids (%)	94.9	% Total Solids
Collector: Chad Steinward		CollectDate: 9/3/2014	CollectTime: 1:35:00 PM		
ReceiveDate 9/4/2014 10:28:00 AM		Matrix: Biosolids	Temp 0.9 C		
Volume: 510.30 g		Analysis Start Date: 9/4/2014	Analysis Start Time: 1640		
Analyst: MPhilbrook		Analysis End: 9/5/2014			
Comment					
141248-003	140903-12	Drying Bed #4-3	Total Solids (%)	86.5	% Total Solids
Collector: Chad Steinward		CollectDate: 9/3/2014	CollectTime: 1:45:00 PM		
ReceiveDate 9/4/2014 10:28:00 AM		Matrix: Biosolids	Temp 0.9 C		
Volume: 418.16 g		Analysis Start Date: 9/4/2014	Analysis Start Time: 1640		
Analyst: MPhilbrook		Analysis End: 9/5/2014			
Comment					
141248-004	140903-13	Drying Bed #4-7	Total Solids (%)	95.1	% Total Solids
Collector: Chad Steinward		CollectDate: 9/3/2014	CollectTime: 1:40:00 PM		
ReceiveDate 9/4/2014 10:28:00 AM		Matrix: Biosolids	Temp 0.9 C		
Volume: 411.08 g		Analysis Start Date: 9/4/2014	Analysis Start Time: 1640		
Analyst: MPhilbrook		Analysis End: 9/5/2014			
Comment					
141248-005	140903-14	Drying Bed #4-8	Total Solids (%)	91.9	% Total Solids
Collector: Chad Steinward		CollectDate: 9/3/2014	CollectTime: 1:26:00 PM		
ReceiveDate 9/4/2014 10:28:00 AM		Matrix: Biosolids	Temp 0.9 C		
Volume: 481.95 g		Analysis Start Date: 9/4/2014	Analysis Start Time: 1640		
Analyst: MPhilbrook		Analysis End: 9/5/2014			
Comment					

