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# Victor Valley Wastewater Reclamation Authority

20111 Shay Road • Victorville • CA • 92394



# 2008 Annual Report



**Victor Valley Wastewater Reclamation Authority  
Discharge Monitoring Report 2008**

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**SECTION 1**

**ANNUAL SUMMARY**

**OF**

**OPERATIONS AND MAINTENANCE**

**VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY**  
**Calendar Year 2008**

**ANNUAL SUMMARY OF  
OPERATIONS AND MAINTENANCE**

**OVERALL TREATMENT**

Effluent removal efficiencies averaged 99.1% for BOD and 99.3% for ammonia nitrogen. The effluent to the Mojave River averaged 3.2 mg/l BOD and .19 mg/l ammonia nitrogen. The influent to the treatment facility averaged 364 mg/l BOD, and 27 mg/l ammonia nitrogen. The influent flow to the facility averaged 12.3 MGD, the effluent flow to the Mojave River averaged 7.73 MGD and the percolation pond effluent averaged 4.395 MGD.

**CONSTRUCTION  
ACTIVITY**

SSC Construction completed the 14.5 and 18 mgd expansion projects in 2008 except for the new aeration basins and associated equipment which will tentatively be on line by March 2009. VVWRA is re-evaluating the hydraulic modeling of its interceptors in the upper and lower narrows and has initiated the process to add UV disinfection, retrofit the current Traveling Bridge filters with Aqua Diamond cloth media filtration, incorporate fixed Intergrated Film Activated Sludge process (IFAS), sludge dewatering and concrete lining of emergency storage ponds.

**PRELIMINARY  
TREATMENT**

Both bar screens and both grit tanks were in service and operated satisfactorily during the year. The screenings were compacted to remove excess water. Screenings and grit were hauled off-site for landfill disposal. Preventative maintenance was performed during the year on scheduled equipment.

**PRIMARY TREATMENT**

All four existing primary sedimentation basins were in service during the year up until August 2008. Staff place all 4 new primaries online the week of August 4, 2008 and secured old 1 and 2. Currently staff has been operating with 6 primary clarifiers and 2 stand-by. Solids removed by the primary treatment system were pumped to the anaerobic digesters or solids storage lagoons for treatment. During the year thickened scum was removed periodically for off-site disposal. All other pumps, tanks and equipment related to the primary treatment process operated satisfactorily. Preventative maintenance was performed during the year on scheduled equipment.

**SECONDARY  
TREATMENT**

Aeration basins No.'s 1-8 were in service in a conventional mode of treatment, operating with four paired basins. Each pair of basins was operated with an anoxic selector for complete nitrification, partial denitrification, and alkalinity recovery.

During the year the aeration system was supplied air from the Facility's three dual-fuel gas-fired internal combustion, six-cylinder engine blowers. The installation of a backup 500 HP electric blower was completed in 2004, and the electric blower began service as a standby for the gas-engine blowers.

Seven (7) secondary clarifiers and five (5) of the return activated sludge (RAS) pumps were in service and operated satisfactorily during the year.

Waste activated sludge was removed from the secondary treatment system and pumped to the dissolved air floatation thickeners (DAFT's) for dewatering. All pumps, tanks, and equipment related to the secondary treatment process operated satisfactorily. Preventative maintenance was performed during the year on scheduled equipment.

#### PERCOLATION PONDS

A total of 1608 million gallons of undisinfected secondary effluent was discharged to the percolation ponds during the year.

#### TERTIARY TREATMENT

A total of 2845 million gallons of secondary effluent received tertiary filtration and disinfection and was discharged to the Mojave River. The two traveling bridge gravity sand filters and the six Dyna-sand moving bed filters were used to reduce solids in the final effluent prior to chlorination. Aluminum sulfate (alum) was added to the filter influent to coagulate the solids and improve filter efficiency. All pumps, tanks and equipment related to the tertiary process operated satisfactorily. Preventative maintenance was performed during the year on scheduled equipment. The two traveling bridge filters were completely refurbished in November of 2006.

The disinfection system operated satisfactorily during the year and gaseous chlorine in one-ton containers was used to disinfect the tertiary effluent, and aqueous ammonia usage was minimized and only added as needed to the wastewater stream immediately prior to chlorination to improve disinfection. For the latter the ammonia feed system used 30% aqueous ammonia to react with chlorine and form monochloroamines, which was found to be necessary due to the degree of nitrification achieved by the secondary treatment system. The dechlorination system operated satisfactorily during the year, and liquid sodium bisulfite in a 38% solution was used to remove chlorine from the effluent prior to discharge to the Mojave River.

#### TOTAL EFFLUENT FLOW

When the percolation pond flow and the tertiary treatment flow are added together, approximately 4453 million gallons were discharged by the Facility in 2008.

**BIOSOLIDS  
TREATMENT**

Both dissolved air floatation thickeners (DAFT's) were in service during the year and operated satisfactorily for waste activated sludge dewatering. After thickening using the DAFT's, thickened WAS was pumped anaerobic digesters or solids storage lagoons. Primary sludge was pumped to the anaerobic digesters or the solids storage lagoons. All three anaerobic digesters were in service for complete mix mesothermic digestion. Staff began start-up on new anaerobic digesters #4 and #5 October 13 and December 3, 2008 respectively. Anaerobically digested sludge was drained by gravity or pumped to the No. 1 and No. 2 liquid sludge storage lagoons. Digested sludge from the No. 1 and No. 2 sludge storage lagoons was pumped to the sludge drying beds for solar dewatering. The gravity belt thickener was also used for sludge dewatering to provide additional capacity for solids handling. Dried biosolids were mechanically removed from the drying beds and placed on the sludge storage pad. A total of approximately 4572 dry tons of Class A EQ dried biosolids were removed from the Facility for disposal using agricultural land application during 2008. At the end of the year 6153 dry tons of biosolids were in storage on the pad awaiting disposal.

All pumps, tanks, and equipment related to the sludge facility operated satisfactorily. Preventative maintenance was performed during the year on scheduled equipment.

**METER CALIBRATION**

VVWRA staff and/or an outside contractor calibrated the meters listed below various times during the year:

- Influent Flow
- Primary Effluent to Equalization Flow
- No. 1 through No. 8 RAS Flows
- Final Effluent Turbidity
- Aeration Basin 1-4 and 5-8 Influent Flow
- Influent Conductivity
- South Percolation Pond Flow Meters
- Effluent Turbidity
- Secondary Effluent Turbidity
- Final Effluent to the Mojave River Flow
- Equalization Basin Effluent Flow
- Influent pH
- Effluent Cl<sub>2</sub>
- Effluent pH
- Effluent Conductivity

**ALARM MONITORING**

All critical process alarms were checked weekly from their source to the main control system. The Facility's SCADA computer alarm dialer system and backup internet messaging system was in service and was functional during the entire year. Most of the Facility's alarm points were routed through the SCADA system. Several alarm points were routed from the main control panel to a private alarm company, and these were checked once per week during the year. Eventually all of the Facility's alarm points will be routed through the SCADA system, and the need for a private alarm company will be eliminated except for redundant fire alarm communication.

**SEPTAGE WASTE  
ACCEPTED**

During 2008 a total of 2.41 million gallons of septage and chemical toilet waste were received at the interim septage receiving facility for treatment and disposal.

**GROUNDWATER  
MONITORING WELLS**

The direction of groundwater movement in the four monitoring wells located at the treatment facility was approximately as follows:

<b>Well No.</b>	<b>Direction</b>
OW-4	NE
OW-6	NE
NW-2	NE
NW-3	NE
SP-1	NE
SP-2	NE
SP-3	E
SP-4	WNW

Maps of the facility and a graphical depiction of groundwater flow are attached to this report.

**EFFLUENT TOXICITY  
ANALYSIS**

Four acute toxicity samples were collected during the year from VVWRA's post-chlorination and dechlorination final effluent. Acute toxicity analyses was performed using fathead minnows, as required by the Facility's NPDES permit. The samples did not exhibit significant acute toxicity as defined by the NPDES Permit. The results were as follows:

<b>Sample Date:</b>	<b>Fathead Survival:</b>	<b>Fathead TUa:</b>
January 15, 2008	100%	0.00
April 10, 2008	100%	0.00
July 09, 2008	100%	0.00
October 15, 2008	100%	0.00

Chronic toxicity samples were collected on January 15, 2008 from VVWRA's post-chlorination and dechlorination final effluent and from the Mojave River, both upstream and downstream of the discharge. Tests were conducted using both Ceriodaphnia and fathead larvae. Both upstream and downstream samples exhibited chronic toxicity using fathead minnows. Resampling was performed for chronic fathead larvae the week of February 12 for upstream and downstream. On the resampling event

downstream passed where upstream failed, please refer to aquatic bioassay toxicity tab for results. The results were as follows:

**January 15, 2008**

<b>Sample Location:</b>	<b>Organism:</b>	<b>Survival:</b>	<b>TUc:</b>
Effluent	Ceriodaphnia	100%	1.00
Effluent	Fathead larvae	100%	1.00
Upstream	Ceriodaphnia	100%	1.00
Upstream	Fathead larvae	<100%	>1.00
Downstream	Ceriodaphnia	100%	1.00
Downstream	Fathead larvae	<100%	>1.00

**February 12, 2008**

<b>Sample Location:</b>	<b>Organism:</b>	<b>Survival:</b>	<b>TUc:</b>
Upstream	Fathead larvae	<100%	>1.00
Downstream	Fathead larvae	100%	1.00

**RECYCLED WATER AND REUSE**

A total of 114.62 million gallons of fully treated reclaimed water were pumped to SCLA for irrigation of the Westwinds Golf Course.

**SPILL AND EXCURSION REPORT**

There were several excursions during 2008 which have been detailed under separate cover to Lahontan Region Water Quality Control Board.

**CERTIFIED WASTEWATER OPERATORS/TECHNICIANS**

The following is a list of certified operators that were employed at the treatment facility during 2008:

**OPERATIONS**

<u>NAME</u>	<u>GRADE</u>	<u>POSITION</u>
Logan Olds	V-9443	General Manager
Gilbert Perez	V-7715	Director of Operations
Roy Dagnino	V-7820	Operator V
Jose Gomez	V-7519	Operator V
James Bryant	IV-9750	Operator IV
Dave Cuomo	III-8333	Operator III
Gabriel E. Chico	III-9209	Operator III
Tom Hinijosa	III-10173	Operator III
Tim Davis	III-8894	Operator III
Mike Tarango	III-8345	Operator III



Carl Carlson	II-5356	Operator II
Bruce Correia	I-8784	Information Systems Coordinator
Rodney Elliot	I-28054	Operator I
Eugene Davis	I-28028	Operator I

**MAINTENANCE**

<u>NAME</u>	<u>GRADE</u>	<u>POSITION</u>
Brent Keaster	IV	Maintenance Supervisor
Pat Nave	IV	Maintenance Technician
Randy Main	III	Maintenance Technician
Mark McGee	III	Maintenance Technician
Troy Minnick	III	Manitenance Technician
Rick Billings	II	Maintenance Technician
Nicholas Turlo	I	Maintenance Technician
Vince Vitale	MIT	Maintenance in Training
Mauricio Marin		Electrical/Instrumentation

Date **February 25, 2009**

California Regional Water Quality Control Board  
 Lahontan Region  
 15428 Civic Drive, Suite 100  
 Victorville, CA 92392

**Facility Name:** Victor Valley Wastewater Reclamation Authority

**Address:** 20111 Shay Road  
Victorville, CA 92394

**Contact Person:** Logan Olds

**Job Title:** General Manager

**Phone:** (760) 246-8638

**Email:** lolds@vwwra.com

**WDR/NPDES Order Number:** R6V-2008-004, CA0102822 (Regional Treatment Facility)

**WDID Number:** 6B360109001

**Type of Report (circle one):** Monthly Quarterly Semi-Annual  Annual Other

**Month(s) (circle applicable month(s)\*:**  FEB MAR APR MAY JUN  
 JUL AUG SEP OCT NOV DEC

\*annual Reports (circle the first month of the reporting period)

Year: 2008

Violation(s)? (Please check one):           NO                     X           YES\*

**\*If YES is marked complete a-g (Attach Additional information as necessary)**

a) Brief Description of Violation: Multiple violations addressed under separate cover to LRWQCB

b) Section(s) of WDRs/NPDES Permit Violated: Multiple

c) Reported Value(s) or Volume: Varied

d) WDRs/NPDES Limit/Condition: Varied

e) Date(s) and Duration of Violation(s): Varied


f) Explanation of Cause(s): Varied

g) Corrective Action(s)  
(Specify actions taken and a schedule for actions to be taken): Please refer to previously submitted documents

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision following a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my knowledge of the person(s) who manage the system, or those directly responsible for data gathering, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

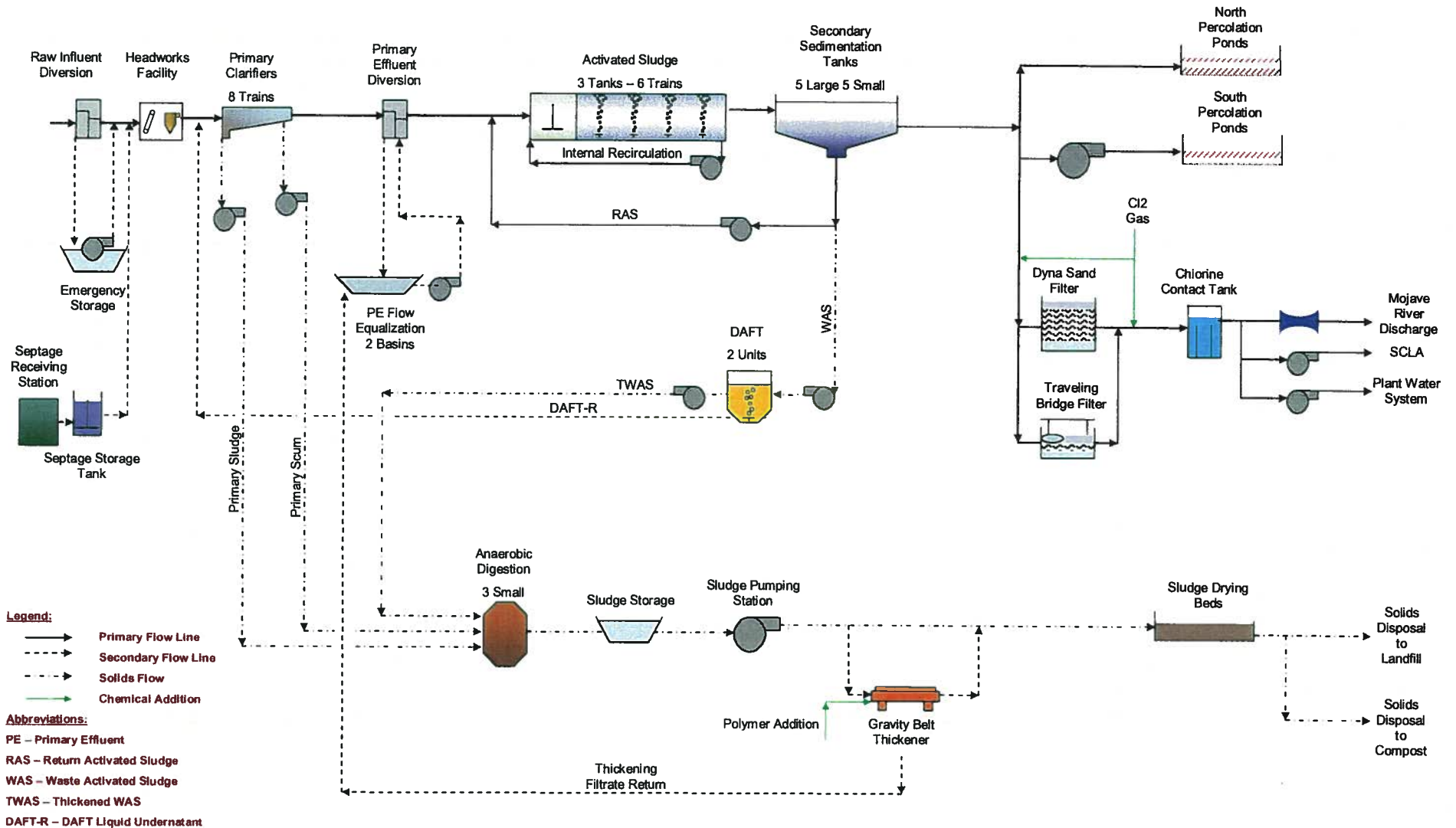
If you have any questions or require additional information, please contact Logan Olds or Gilbert Perez at the number provided above.

Sincerely,

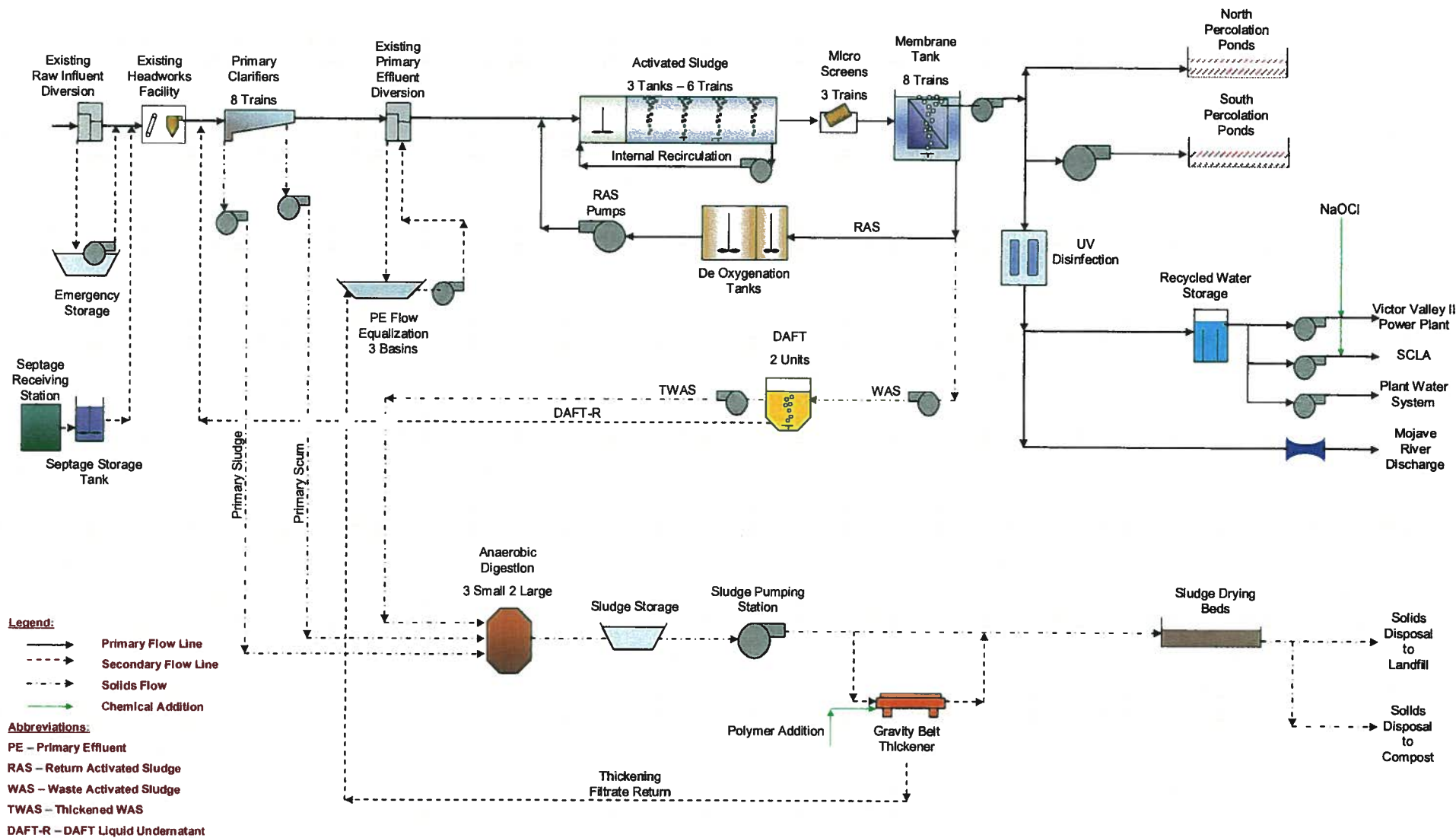
Signature: 

Name: Logan Olds

Title: General Manager



**Figure 1.1 – VWVRA Existing Process Schematic (18 MGD Designed Flow - Operation From Present to Dec 2009)**



**Figure 1.2 – VWRA Phase IIIA Process Schematic (18 MGD Projected Flow - Operation from Jan 2010 to April 2011)**

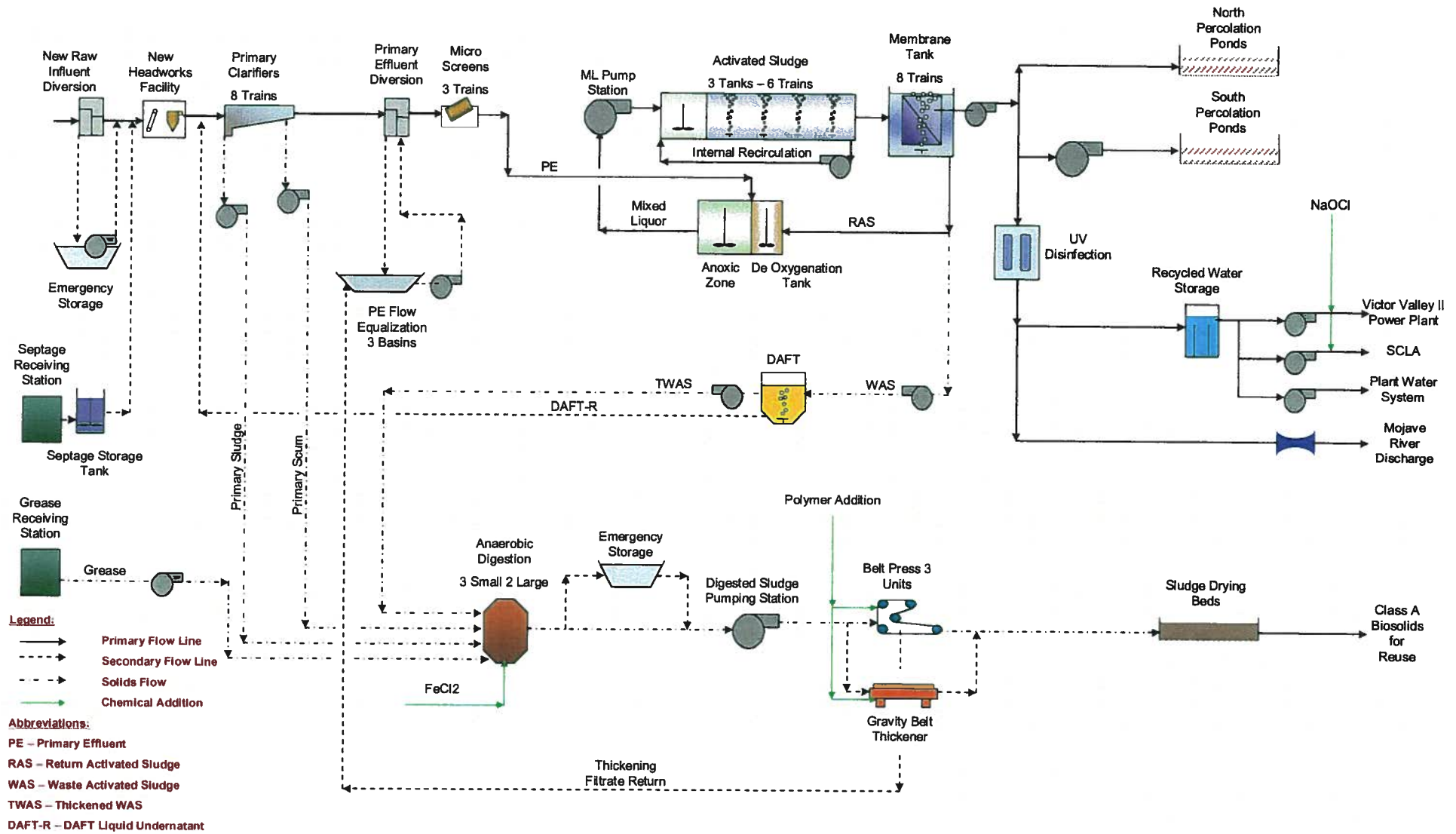


Figure 1.3 – VWVRA Phase IIIB Process Schematic (22 MGD Projected Flow - Operation from May 2011)



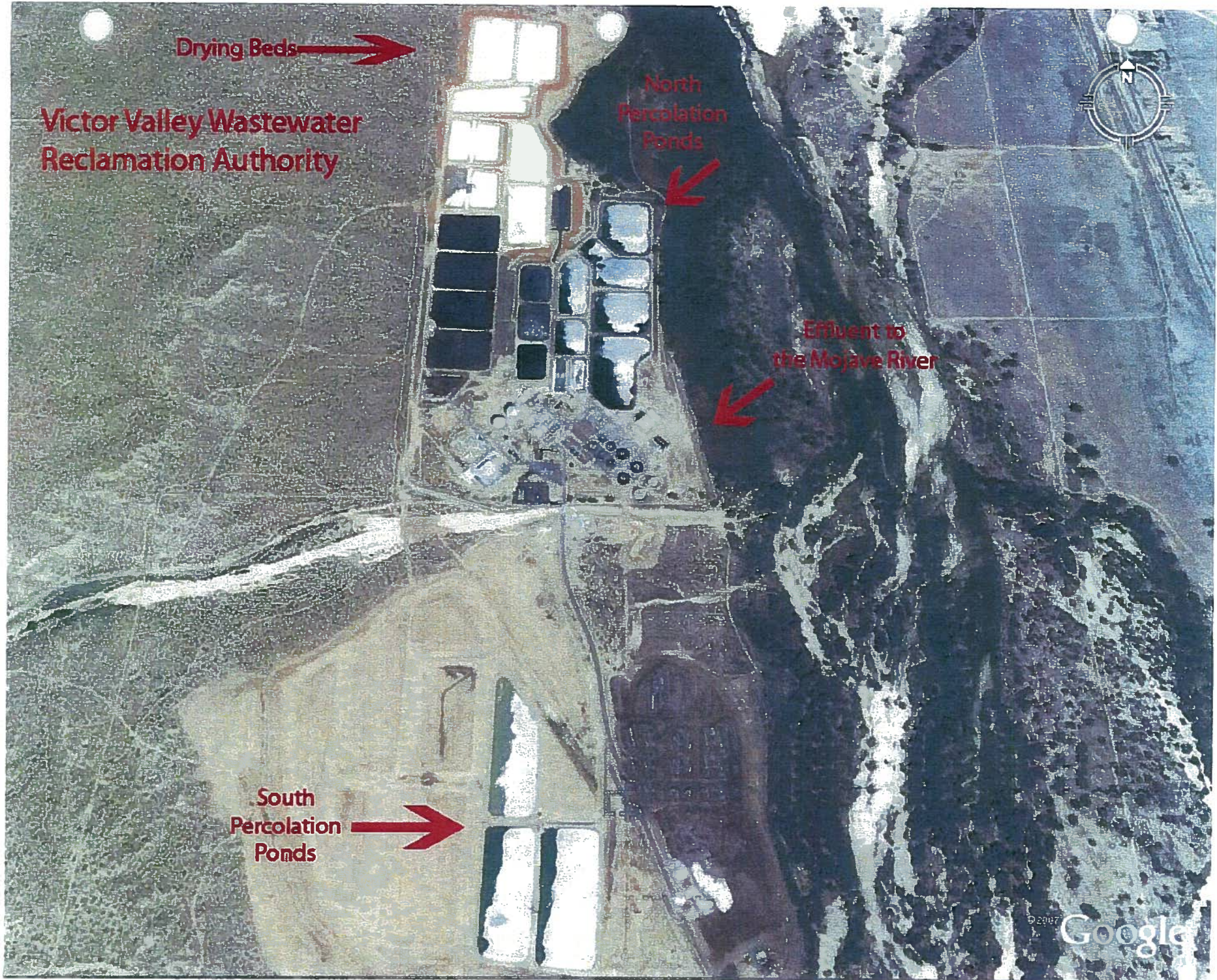
Drying Beds →

Victor Valley Wastewater  
Reclamation Authority

North  
Percolation  
Ponds →

Effluent to  
the Mojave River →

South  
Percolation  
Ponds →







VWVRA

Mojave River Upstream  
Water Monitoring Station

VWVRA Upstream  
Monitoring Station

Bryman Rd

Old Turner Rd

Seals Rd

Spencer Rd

Ranch Rd

Turner Rd

Air Expressway Blvd





Mojave River Downstream  
Monitoring Station



VWRA North  
Drying Beds

VWRA Downstream  
Monitoring Station

**SECTION 2**

**FLOWS PER MONTH**

VVWRA  
Flows per Month  
2008

JANUARY

Date	Influent Flow (mgd)	Influent Peak (mgd)	North Percolation Pond Flow (mgd)	South Percolation Pond Flow (mgd)	Mojave Effluent (MGD)	Sum of Discharged Flows (mgd)	Septage Flow (gpd)	Reclaimed Flow to SCLA (mgd)
1	11.34	16.62	0.00	6.13	5.86	11.99	0	0.02
2	11.84	16.17	0.00	5.92	5.51	11.44	6266	0.38
3	11.73	15.70	0.00	6.08	6.22	12.30	12773	0.00
4	12.11	16.11	0.00	6.30	6.64	12.94	4159	0.00
5	12.01	17.56	0.00	6.06	6.03	12.09	0	0.00
6	12.40	17.60	0.00	6.09	6.32	12.41	0	0.00
7	12.46	16.23	0.00	6.41	6.39	12.80	13124	0.00
8	10.96	15.93	0.00	5.62	6.22	11.84	11372	0.00
9	9.95	16.12	0.00	5.20	4.22	9.43	0	0.00
10	11.95	16.21	0.00	6.07	6.58	12.65	16574	0.00
11	12.33	15.43	0.00	6.74	5.92	12.66	16208	0.00
12	12.77	29.35	0.00	6.02	6.37	12.39	0	0.00
13	13.04	18.45	0.00	6.46	6.47	12.93	0	0.00
14	12.27	16.55	0.00	6.28	5.40	11.68	12037	0.41
15	12.27	16.34	0.00	5.43	7.48	12.90	0	0.00
16	11.95	16.04	0.00	5.02	7.18	12.20	12037	0.00
17	12.23	16.15	0.00	3.58	7.09	10.67	12050	0.00
18	12.37	15.27	0.00	5.27	7.50	12.77	2066	0.00
19	12.46	30.41	0.00	5.18	7.50	12.68	0	0.00
20	12.42	17.87	0.00	4.92	7.70	12.62	0	0.00
21	12.62	17.88	0.00	4.77	7.79	12.56	0	0.00
22	12.20	16.32	0.00	4.97	7.47	12.45	12037	0.02
23	12.22	16.38	0.00	5.12	6.70	11.81	11471	0.39
24	12.25	16.16	0.00	5.08	7.46	12.54	7290	0.00
25	12.74	16.53	0.00	5.22	7.68	12.90	16196	0.00
26	12.69	18.45	0.00	5.21	7.50	12.71	0	0.00
27	12.90	19.33	0.00	5.01	8.30	13.30	0	0.00
28	12.40	16.60	0.00	4.35	8.21	12.56	4566	0.00
29	12.57	16.45	0.00	5.36	7.88	13.24	9859	0.00
30	12.06	16.42	0.00	4.82	7.08	11.89	7359	0.00
31	12.13	16.10	0.00	4.64	8.03	12.67	0	0.00

Total (mg)	377.64		0.00	169.33	212.68	382.02	0.19	1.21
Average (mgd)	12.18	17.51	0.00	5.46	6.86	12.32	0.01	0.04
Maximum (mgd)	13.04	30.41		6.74	8.30	13.30	0.02	0.41
					% Difference	100.00		

VVWRA  
Flows per Month  
2008

FEBRUARY

Date	Influent Flow (mgd)	Influent Peak (mgd)	North Percolation Pond Flow (mgd)	South Percolation Pond Flow (mgd)	Mojave Effluent (MGD)	Sum of Discharged Flows (mgd)	Septage Flow (gpd)	Reclaimed Flow to SCLA (mgd)
1	12.28	15.43	1.02	3.81	7.75	12.58	18821	0.00
2	12.61	29.27	1.02	3.43	8.02	12.47	0	0.00
3	12.67	19.05	1.51	3.43	7.95	12.89	0	0.00
4	12.30	16.66	1.50	3.55	7.73	12.78	22980	0.00
5	12.24	16.12	1.50	3.47	7.18	12.15	0	0.00
6	12.27	16.07	1.50	3.57	7.34	12.42	0	0.00
7	12.16	16.26	1.50	3.47	7.34	12.31	0	0.42
8	12.16	15.70	1.00	3.81	7.31	12.12	0	0.00
9	12.42	18.67	1.30	3.46	7.61	12.37	0	0.00
10	12.25	18.10	1.00	3.57	7.86	12.43	0	0.00
11	12.87	17.25	1.00	3.38	7.41	11.79	19682	0.41
12	12.29	15.90	1.00	3.45	8.09	12.54	9811	0.00
13	12.12	15.69	1.00	3.57	7.47	12.04	14039	0.13
14	12.02	15.49	2.00	3.22	7.00	12.21	4566	0.13
15	12.19	15.42	1.00	3.36	7.47	11.83	9659	0.13
16	12.23	18.18	1.00	3.44	7.69	12.13	0	0.00
17	12.06	17.76	1.00	3.47	7.64	12.11	0	0.00
18	12.89	18.04	1.00	2.99	7.84	11.82	0	0.36
19	12.15	15.82	2.00	2.39	8.29	12.68	16805	0.00
20	12.08	15.93	2.00	2.41	8.08	12.49	14450	0.00
21	12.06	15.67	1.80	2.17	8.40	12.37	7566	0.00
22	12.12	15.47	2.00	2.12	8.44	12.56	20025	0.00
23	12.33	18.07	2.00	2.17	8.24	12.41	0	0.00
24	12.70	17.64	1.80	2.52	7.99	12.31	0	0.38
25	12.15	16.31	1.50	8.30	8.43	18.23	6559	0.39
26	12.35	16.10	1.00	6.04	8.39	15.43	11559	0.00
27	12.35	23.30	1.00	1.25	7.31	9.56	0	0.37
28	12.35	20.79	1.00	9.18	9.67	19.84	14350	0.36
29	12.31	18.36	1.00	2.97	9.90	13.87	8859	0.00

Total (mg)	356.98		38.95	103.97	229.84	372.74	0.20	3.07
Average (mgd)	12.31	17.54	1.34	3.59	7.93	12.85	0.01	0.11
Maximum (mgd)	12.89	29.27		9.18	9.90	19.84	0.02	0.42

% Difference	100.00
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VVWRA  
Flows per Month  
2008

MARCH

Date	Influent Flow (mgd)	Influent Peak (mgd)	North Percolation Pond Flow (mgd)	South Percolation Pond Flow (mgd)	Mojave Effluent (MGD)	Sum of Discharged Flows (mgd)	Septage Flow (gpd)	Reclaimed Flow to SCLA (mgd)
1	12.81	19.34	1.05	2.97	10.70	14.72	0	0.00
2	12.76	19.27	1.00	1.13	10.22	12.35	0	0.00
3	12.65	17.18	1.00	1.08	11.01	13.09	14325	0.38
4	12.27	16.92	1.01	1.19	10.11	12.31	8891	0.35
5	12.22	16.73	1.00	1.10	9.76	11.86	10691	0.00
6	12.33	16.81	1.00	1.03	10.60	12.62	10925	0.39
7	12.25	16.58	1.04	0.98	10.64	12.66	19157	0.37
8	12.30	16.58	0.95	1.05	10.15	12.15	0	0.00
9	12.50	18.98	0.97	1.01	10.07	12.05	0	0.00
10	12.38	18.61	1.00	1.07	10.25	12.32	4466	0.38
11	10.78	17.30	1.00	1.08	10.70	12.78	18759	0.39
12	9.13	20.36	1.20	1.09	10.35	12.65	4132	0.00
13	12.17	19.80	0.97	1.08	10.44	12.49	10425	0.43
14	12.50	16.70	0.98	0.78	10.81	12.57	13340	0.39
15	12.54	15.43	1.04	0.95	10.76	12.75	0	0.00
16	12.38	18.66	0.99	1.11	10.80	12.89	0	0.00
17	12.51	18.40	1.00	0.48	10.40	11.88	6225	0.00
18	12.08	16.64	1.00	0.00	11.20	12.20	10840	0.41
19	12.17	16.64	1.04	0.00	10.62	11.66	11125	0.00
20	12.12	16.23	1.00	0.74	10.45	12.19	15125	0.38
21	12.47	15.49	1.00	0.59	8.72	10.31	0	0.35
22	12.49	17.21	1.00	2.97	8.24	12.21	0	0.00
23	11.67	18.70	1.03	3.20	7.67	11.90	0	0.37
24	12.03	18.37	1.02	3.23	7.56	11.82	11125	0.35
25	11.86	16.51	1.00	3.28	7.65	11.93	8525	0.40
26	12.28	16.84	1.00	3.24	7.65	11.88	10946	0.37
27	11.68	16.59	1.00	3.19	7.94	12.13	0	0.39
28	12.14	16.21	0.98	3.20	9.05	13.23	10686	0.38
29	12.08	17.27	0.99	3.16	6.96	11.11	0	0.37
30	12.33	17.92	0.99	2.88	8.12	12.00	0	0.35
31	12.30	19.63	0.96	2.87	7.98	11.81	14325	0.35

Total (mg)	376.18		31.21	51.73	297.57	380.52	0.21	7.53
Average (mgd)	12.13	17.55	1.01	1.67	9.60	12.27	0.01	0.24
Maximum (mgd)	12.81	20.36		3.28	11.20	14.72	0.02	0.43

% Difference	100.00
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VVWRA  
Flows per Month  
2008

APRIL

Date	Influent Flow (mgd)	Influent Peak (mgd)	North Percolation Pond Flow (mgd)	South Percolation Pond Flow (mgd)	Mojave Effluent (MGD)	Sum of Discharged Flows (mgd)	Septage Flow (gpd)	Reclaimed Flow to SCLA (mgd)
1	12.18	17.11	0.50	2.84	7.68	11.02	7512	1.14
2	12.07	16.79	0.50	3.12	8.50	12.12	13991	0.36
3	12.05	16.34	0.54	3.35	8.05	11.95	18849	0.37
4	12.20	16.45	0.55	2.65	8.24	11.44	15673	0.35
5	12.28	15.99	1.00	3.00	8.44	12.44	0	0.32
6	12.57	18.32	0.98	2.92	8.29	12.19	0	0.40
7	12.30	18.15	1.00	2.95	8.82	12.76	12991	0.00
8	12.31	17.31	0.98	2.98	8.89	12.85	17810	0.42
9	12.40	17.00	1.03	3.20	8.10	12.33	3200	0.39
10	11.94	16.85	0.60	3.00	7.79	11.39	9425	0.38
11	12.21	16.76	0.49	2.97	8.06	11.51	12017	0.00
12	12.18	16.01	0.00	3.06	8.02	11.08	0	0.35
13	12.35	18.08	0.00	4.14	7.81	11.95	0	0.36
14	12.16	17.95	0.00	4.21	7.94	12.15	11866	0.00
15	12.19	16.84	0.00	4.56	7.60	12.16	0	0.38
16	12.16	16.86	0.00	4.51	7.51	12.02	4466	0.40
17	12.06	16.63	0.00	4.54	7.80	12.34	20292	0.39
18	12.14	16.61	0.00	3.72	7.85	11.57	7312	0.38
19	12.17	15.66	1.00	3.69	7.42	12.11	0	0.38
20	12.36	18.42	1.00	3.24	7.51	11.75	0	0.33
21	12.26	18.02	0.93	3.33	7.43	11.70	5680	0.32
22	12.09	28.75	0.98	3.60	7.45	12.03	9732	0.49
23	12.19	29.68	1.05	3.60	7.30	11.95	17505	0.42
24	11.93	16.52	0.95	3.53	7.44	11.91	14103	0.41
25	12.08	16.97	1.02	3.14	7.60	11.77	12492	0.39
26	11.88	15.90	1.98	3.65	7.11	12.75	0	0.37
27	12.14	18.10	1.07	3.59	7.68	12.34	0	0.35
28	12.86	17.81	1.05	3.13	7.62	11.80	21806	0.35
29	13.13	16.57	1.00	3.27	7.15	11.42	11825	0.40
30	13.26	16.52	1.00	3.31	7.83	12.14	17837	0.38

Total (mg)	368.10		21.20	102.80	234.93	358.94	0.27	10.99
Average (mgd)	12.27	17.83	0.71	3.43	7.83	11.96	0.01	0.37
Maximum (mgd)	13.26	29.68		4.56	8.89	12.85	0.02	1.14

% Difference	100.00
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VVWRA  
Flows per Month  
2008

MAY

Date	Influent Flow (mgd)	Influent Peak (mgd)	North Percolation Pond Flow (mgd)	South Percolation Pond Flow (mgd)	Mojave Effluent (MGD)	Sum of Discharged Flows (mgd)	Septage Flow (gpd)	Reclaimed Flow to SCLA (mgd)
1	11.83	16.26	1.00	2.79	7.63	11.42	14103	0.42
2	12.82	16.49	0.50	3.08	8.30	11.87	4159	0.41
3	12.26	19.01	0.50	4.06	6.88	11.44	0	0.40
4	11.84	18.39	0.50	3.53	7.37	11.40	0	0.39
5	12.20	18.39	0.50	3.86	7.25	11.61	15925	0.41
6	12.56	17.18	0.50	3.95	7.86	12.31	20091	0.44
7	12.38	18.07	0.47	3.82	7.66	11.96	12271	0.44
8	12.01	16.66	0.00	3.86	7.48	11.34	16717	0.43
9	12.42	16.60	0.00	3.82	8.02	11.84	9478	0.44
10	12.36	18.37	0.50	3.94	8.10	12.54	0	0.42
11	11.96	18.37	0.00	3.78	7.89	11.68	0	0.46
12	12.39	17.88	0.55	3.87	7.60	12.02	13425	0.49
13	12.12	16.73	0.50	3.86	6.67	11.03	18637	0.49
14	12.38	16.40	0.50	3.91	7.66	12.08	7878	0.49
15	12.14	16.13	0.00	3.72	7.72	11.44	17358	0.50
16	12.64	16.13	0.00	3.58	8.15	11.73	3180	0.52
17	12.04	17.66	0.00	3.54	8.61	12.15	0	0.49
18	11.99	17.80	1.00	3.74	7.61	12.35	0	0.49
19	12.71	17.79	0.45	3.97	7.83	12.25	7566	0.49
20	12.80	17.79	0.49	4.08	7.79	12.36	20449	0.35
21	12.02	17.85	0.95	3.82	7.00	11.78	5266	0.75
22	12.43	15.98	0.00	4.07	7.93	12.00	15337	0.48
23	12.13	15.89	0.00	3.37	7.77	11.14	18637	0.49
24	12.44	18.50	0.91	3.87	7.53	12.31	0	0.48
25	12.17	17.66	0.00	3.91	7.88	11.79	0	0.48
26	12.97	19.25	0.00	3.75	7.52	11.27	0	0.48
27	12.27	16.73	0.50	3.84	7.32	11.66	11825	0.48
28	12.51	16.73	0.00	3.92	7.95	11.87	10832	0.53
29	11.97	16.14	0.00	4.17	6.83	11.00	15671	0.51
30	12.29	17.36	0.00	4.58	6.24	10.82	12357	0.51
31	14.33	17.99	0.00	4.09	7.35	11.44	0	0.47

Total (mg)	383.38		10.32	118.15	235.38	363.90	0.27	14.62
Average (mgd)	12.37	17.36	0.33	3.81	7.59	11.74	0.01	0.47
Maximum (mgd)	14.33	19.25		4.58	8.61	12.54	0.02	0.75
					% Difference	100.00		



VVWRA  
Flows per Month  
2008

JUNE

Date	Influent Flow (mgd)	Influent Peak (mgd)	North Percolation Pond Flow (mgd)	South Percolation Pond Flow (mgd)	Mojave Effluent (MGD)	Sum of Discharged Flows (mgd)	Septage Flow (gpd)	Reclaimed Flow to SCLA (mgd)
1	13.48	17.52	0.50	4.10	7.29	11.89	0	0.47
2	13.36	16.45	0.50	4.10	7.24	11.83	6198	0.51
3	13.15	15.99	0.43	4.15	7.29	11.87	19257	0.51
4	12.99	16.06	0.41	3.63	7.52	11.56	9271	0.48
5	12.85	15.85	0.00	3.71	7.53	11.24	18759	0.52
6	13.58	15.96	0.00	4.09	8.11	12.19	19003	0.53
7	12.58	17.60	1.00	3.64	6.78	11.42	0	0.49
8	13.74	17.23	0.75	3.76	7.43	11.94	0	0.50
9	13.32	15.79	0.75	4.10	7.62	12.47	6532	0.54
10	11.81	15.40	0.50	3.83	7.08	11.42	14751	0.52
11	11.77	15.15	0.50	3.86	7.44	11.80	9425	0.55
12	12.08	15.28	0.96	3.90	6.70	11.56	13271	0.54
13	11.75	15.88	0.00	4.00	7.70	11.70	10278	0.56
14	11.87	17.88	0.00	4.08	7.61	11.69	0	0.52
15	11.53	17.30	0.00	3.76	7.12	10.88	0	0.53
16	12.00	16.42	0.50	3.77	7.14	11.42	11125	0.54
17	11.84	15.63	0.50	6.20	7.14	13.84	11237	0.59
18	11.89	15.20	0.50	1.87	7.42	9.79	11766	0.59
19	11.55	14.95	0.50	3.62	7.57	11.68	12376	0.60
20	12.30	15.42	0.50	3.90	7.41	11.81	3180	0.60
21	11.54	17.01	0.50	3.83	7.66	11.99	0	0.64
22	11.76	16.51	0.70	4.32	7.14	12.16	0	0.61
23	11.76	15.58	0.71	3.53	7.14	11.38	2400	0.61
24	11.46	15.29	0.47	3.83	6.86	11.16	10442	0.65
25	11.73	14.95	0.45	4.10	6.72	11.27	8581	0.72
26	11.50	15.14	0.00	4.01	7.18	11.19	7766	0.71
27	11.92	15.94	0.00	3.55	7.08	10.63	14146	0.73
28	11.76	17.25	0.51	3.93	7.24	11.68	0	0.64
29	11.56	16.45	0.00	4.05	7.14	11.19	0	0.63
30	11.52	16.14	0.00	4.13	6.38	10.52	2066	0.70

Total (mg)	365.95		12.14	117.35	217.66	347.17	0.22	17.31
Average (mgd)	12.20	16.11	0.40	3.91	7.26	11.57	0.01	0.58
Maximum (mgd)	13.74	17.88		6.20	8.11	13.84	0.02	0.73

% Difference	100.00
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VWRA  
Flows per Month  
2008

JULY

Date	Influent Flow (mgd)	Influent Peak (mgd)	North Percolation Pond Flow (mgd)	South Percolation Pond Flow (mgd)	Mojave Effluent (MGD)	Sum of Discharged Flows (mgd)	Septage Flow (gpd)	Reclaimed Flow to SCLA (mgd)
1	11.92	15.28	0.00	3.91	7.21	11.12	7858	0.66
2	11.90	15.72	0.00	4.10	6.98	11.08	9946	0.68
3	11.90	15.83	0.50	3.82	7.49	11.81	7332	0.68
4	11.25	18.21	0.50	3.70	7.36	11.56	0	0.64
5	11.36	16.45	0.50	3.65	7.26	11.42	0	0.64
6	11.83	16.36	0.00	3.72	7.21	10.94	0	0.63
7	11.63	15.71	0.30	4.09	6.93	11.33	23671	0.68
8	11.41	15.02	0.33	4.25	6.92	11.50	2500	0.68
9	12.07	14.87	0.33	3.73	7.97	12.03	7766	0.66
10	11.79	15.02	0.33	4.10	7.56	11.98	10592	0.69
11	11.95	15.82	0.00	3.64	7.81	11.45	8446	0.63
12	14.49	16.93	0.00	4.63	7.63	12.26	0	0.03
13	11.69	16.70	0.50	3.68	5.97	10.15	0	0.54
14	12.03	15.87	0.51	4.71	7.02	12.24	2400	0.71
15	12.21	15.20	0.45	4.00	8.58	13.04	12100	0.03
16	11.85	17.27	0.54	3.93	6.87	11.35	3180	0.63
17	11.88	22.30	0.48	3.89	7.40	11.77	13192	0.53
18	11.98	15.72	0.50	4.59	7.47	12.56	10193	0.55
19	11.62	16.97	0.00	4.52	6.72	11.23	0	0.54
20	11.68	16.62	0.50	4.19	6.56	11.25	0	0.53
21	11.99	15.65	0.50	3.61	7.81	11.92	3180	0.55
22	11.91	15.27	0.51	3.96	6.97	11.44	6781	0.55
23	11.63	15.03	0.50	3.86	6.91	11.27	13637	0.55
24	11.96	15.20	0.00	3.82	7.39	11.22	8359	0.57
25	11.75	16.67	0.00	4.03	7.15	11.18	16239	0.56
26	11.95	17.10	0.50	4.16	7.41	12.07	0	0.53
27	11.81	19.60	0.50	4.20	7.23	11.92	0	0.53
28	11.46	15.71	0.50	3.63	6.58	10.71	13790	0.60
29	11.85	15.24	0.49	3.96	6.67	11.12	4912	0.55
30	11.88	15.35	0.50	3.90	7.39	11.80	8525	0.59
31	12.28	15.70	0.50	4.15	6.95	11.60	4159	0.56

Total (mg)	368.91		10.77	124.13	223.37	358.32	0.20	17.48
Average (mgd)	11.90	16.27	0.35	4.00	7.21	11.56	0.01	0.56
Maximum (mgd)	14.49	22.30		4.71	8.58	13.04	0.02	0.71
					% Difference	100.00		

VWRA  
Flows per Month  
2008

AUGUST

Date	Influent Flow (mgd)	Influent Peak (mgd)	North Percolation Pond Flow (mgd)	South Percolation Pond Flow (mgd)	Mojave Effluent (MGD)	Sum of Discharged Flows (mgd)	Septage Flow (gpd)	Reclaimed Flow to SCLA (mgd)
1	11.30	15.70	0.50	3.81	7.69	12.00	18717	0.08
2	11.97	16.80	0.50	4.03	6.51	11.04	0	0.14
3	11.96	16.78	0.95	4.15	6.81	11.91	0	0.60
4	11.58	15.52	0.93	3.98	6.85	11.77	6225	0.62
5	12.14	15.51	0.50	3.95	6.42	10.87	16525	0.62
6	12.04	15.26	0.50	3.90	7.40	11.80	4466	0.61
7	11.83	15.49	0.50	3.59	7.43	11.52	12037	0.60
8	12.22	15.75	0.50	3.76	7.50	11.75	6459	0.61
9	12.15	15.75	0.50	3.97	7.19	11.66	0	0.59
10	12.01	16.20	0.00	4.06	7.21	11.26	0	0.57
11	12.39	16.26	0.80	3.97	7.23	12.00	9266	0.64
12	11.98	15.72	0.65	4.04	7.25	11.94	9971	0.61
13	12.18	15.47	0.48	4.09	6.64	11.21	10903	0.58
14	12.02	15.76	0.50	3.25	7.22	10.96	5112	0.58
15	12.25	15.94	0.50	4.12	7.60	12.22	4466	0.58
16	12.20	17.39	0.50	4.26	7.06	11.82	0	0.54
17	12.20	16.24	0.54	3.53	7.12	11.19	0	0.54
18	12.04	16.24	0.50	3.82	7.50	11.82	11825	0.57
19	12.35	16.78	0.44	4.25	7.15	11.84	4466	0.61
20	12.18	16.08	0.50	4.12	7.53	12.15	13859	0.55
21	12.04	16.08	0.45	3.74	7.73	11.92	12132	0.57
22	12.24	15.36	0.50	4.46	7.13	12.09	6225	0.57
23	12.25	18.09	0.50	4.17	7.62	12.29	0	0.54
24	12.25	17.82	0.00	4.14	7.16	11.30	0	0.54
25	12.31	16.53	0.50	4.49	7.35	12.34	8446	0.58
26	12.04	17.33	0.00	4.90	6.52	11.41	6459	0.55
27	12.32	17.11	0.00	5.11	7.54	12.64	14205	0.60
28	11.98	17.44	0.50	4.06	7.27	11.84	6771	0.58
29	12.51	15.50	0.00	5.32	7.74	13.06	5500	0.00
30	12.07	17.97	0.00	4.71	6.76	11.47	0	0.59
31	11.92	17.58	0.00	4.71	7.29	12.00	0	0.56

Total (mg)	374.92		13.24	128.46	223.42	365.09	0.19	16.52
Average (mgd)	12.09	16.37	0.43	4.14	7.21	11.78	0.01	0.53
Maximum (mgd)	12.51	18.09		5.32	7.74	13.06	0.02	0.64

% Difference	100.00
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VVWRA  
Flows per Month  
2008

SEPTEMBER

Date	Influent Flow (mgd)	Influent Peak (mgd)	North Percolation Pond Flow (mgd)	South Percolation Pond Flow (mgd)	Mojave Effluent (MGD)	Sum of Discharged Flows (mgd)	Septage Flow (gpd)	Reclaimed Flow to SCLA (mgd)
1	12.92	18.84	0.00	4.54	7.35	11.89	0	0.54
2	12.17	16.57	0.00	4.72	7.25	11.97	13557	0.56
3	12.29	16.61	0.00	4.51	7.96	12.47	11025	0.55
4	12.12	15.01	0.00	4.27	7.81	12.08	4159	0.52
5	11.98	15.01	0.00	4.19	7.66	11.85	12625	0.48
6	12.29	18.05	0.00	4.21	8.03	12.23	0	0.46
7	12.29	17.55	2.04	4.30	7.41	13.76	0	0.06
8	12.14	16.73	0.00	4.43	7.47	11.90	22458	0.88
9	12.21	16.46	0.00	4.11	7.86	11.96	17717	0.50
10	12.33	16.46	0.00	4.01	8.02	12.03	8525	0.48
11	11.90	16.18	0.00	4.37	7.64	12.00	4600	0.49
12	12.25	15.53	0.00	4.39	8.34	12.73	11491	0.00
13	12.58	17.92	0.00	4.83	8.16	12.99	0	0.49
14	12.26	17.89	0.00	4.02	7.14	11.16	0	0.46
15	12.46	16.58	0.00	4.73	8.17	12.90	4566	0.50
16	11.63	16.53	0.00	4.10	7.42	11.53	9632	0.49
17	12.13	16.55	0.00	4.51	8.10	12.61	6225	0.49
18	12.10	16.47	0.00	5.15	9.20	14.35	4566	0.42
19	12.24	15.44	0.00	3.27	6.13	9.40	5700	0.42
20	12.43	18.12	0.00	4.37	7.95	12.32	0	0.38
21	12.41	18.07	0.00	3.85	7.70	11.55	0	0.38
22	12.35	16.89	0.00	4.37	8.00	12.37	6866	0.08
23	12.06	16.71	0.00	4.63	7.96	12.59	10178	0.42
24	12.13	16.55	0.00	4.21	7.94	12.15	4159	0.41
25	12.11	16.48	0.00	4.24	7.81	12.05	0	0.45
26	12.13	15.54	0.00	4.17	7.93	12.10	16291	0.42
27	12.61	18.32	0.00	4.60	7.76	12.36	0	0.40
28	12.28	16.78	0.00	3.88	7.64	11.52	0	0.40
29	12.52	16.78	0.00	4.80	8.12	12.92	5266	0.43
30	12.18	16.78	0.00	4.07	7.79	11.87	10825	0.42

Total (mg)	367.50		2.04	129.85	233.72	365.61	0.19	12.98
Average (mgd)	12.25	16.78	0.07	4.33	7.79	12.19	0.01	0.43
Maximum (mgd)	12.92	18.84		5.15	9.20	14.35	0.02	0.88

% Difference	100.00
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VVWRA  
Flows per Month  
2008

OCTOBER

Date	Influent Flow (mgd)	Influent Peak (mgd)	North Percolation Pond Flow (mgd)	South Percolation Pond Flow (mgd)	Mojave Effluent (MGD)	Sum of Discharged Flows (mgd)	Septage Flow (gpd)	Reclaimed Flow to SCLA (mgd)
1	12.25	16.17	0.00	4.63	8.24	12.87	9425	0.00
2	11.90	16.17	0.00	4.21	7.91	12.12	9832	0.40
3	12.23	15.35	0.00	4.44	8.04	12.48	7566	0.00
4	12.29	18.26	0.00	4.29	7.98	12.27	0	0.00
5	12.70	18.21	0.00	4.38	7.86	12.24	0	0.39
6	12.28	16.75	0.00	4.63	8.42	13.05	12423	0.00
7	12.07	16.35	0.00	4.75	7.07	11.82	11698	0.41
8	12.13	16.21	0.00	4.36	7.57	11.94	3200	0.48
9	12.17	16.40	0.00	3.98	7.67	11.65	4678	0.46
10	12.48	30.28	0.00	4.38	7.78	12.16	4132	0.48
11	12.95	18.43	0.00	4.92	8.20	13.12	0	0.00
12	12.24	18.34	0.00	3.81	7.33	11.13	0	0.41
13	12.90	17.74	0.00	4.48	8.72	13.20	6225	0.32
14	12.19	16.64	0.00	4.46	7.01	11.47	7212	0.10
15	12.47	16.39	0.00	4.61	7.78	12.40	6225	0.45
16	12.15	15.41	0.00	4.13	7.69	11.83	5500	0.40
17	12.14	15.41	0.00	4.68	8.07	12.76	8291	0.00
18	12.22	18.06	0.00	0.00	7.56	7.56	0	0.00
19	12.51	17.83	0.00	4.38	7.68	12.06	0	0.46
20	12.16	17.04	0.00	4.53	7.50	12.03	13536	0.41
21	12.28	17.11	0.00	9.18	8.41	17.59	18427	0.39
22	12.37	16.84	0.00	4.75	6.72	11.47	5500	0.40
23	12.16	16.47	0.00	4.30	7.76	12.07	7546	0.39
24	12.31	15.63	0.00	4.39	7.92	12.30	7980	0.00
25	12.08	18.55	0.00	4.46	7.73	12.19	0	0.00
26	12.59	18.06	0.00	4.52	7.71	12.23	0	0.39
27	12.27	16.97	0.00	4.60	7.59	12.19	5680	0.38
28	12.15	16.54	0.00	4.73	8.37	13.10	9071	0.00
29	12.13	16.19	0.00	4.95	8.28	13.22	8959	0.01
30	13.22	16.31	0.00	4.16	8.08	12.24	4366	0.44
31	10.52	15.04	0.00	3.71	6.97	10.68	4132	0.00

Total (mg)	380.51		0.00	137.80	241.63	379.44	0.18	7.55
Average (mgd)	12.27	17.26	0.00	4.45	7.79	12.24	0.01	0.24
Maximum (mgd)	13.22	30.28		9.18	8.72	17.59	0.02	0.48

% Difference	100.00
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VWRA  
Flows per Month  
2008

NOVEMBER

Date	Influent Flow (mgd)	Influent Peak (mgd)	North Percolation Pond Flow (mgd)	South Percolation Pond Flow (mgd)	Mojave Effluent (MGD)	Sum of Discharged Flows (mgd)	Septage Flow (gpd)	Reclaimed Flow to SCLA (mgd)
1	12.59	18.42	0.00	4.56	8.42	12.98	0	0.00
2	12.71	19.16	0.00	4.63	8.41	13.04	0	0.05
3	12.50	16.41	0.00	4.60	7.59	12.19	4566	0.33
4	12.07	16.24	0.00	3.45	7.70	11.15	10825	0.40
5	12.57	16.24	0.00	4.37	8.69	13.06	9478	0.00
6	12.38	16.24	0.00	4.00	7.91	11.91	11137	0.39
7	12.35	16.24	0.00	4.31	8.11	12.41	13091	0.00
8	12.58	16.24	0.00	4.62	8.20	12.82	0	0.00
9	12.26	16.24	0.00	3.80	7.27	11.07	0	0.39
10	12.94	16.24	0.00	4.26	9.43	13.69	7100	0.00
11	12.48	16.24	0.00	3.77	8.26	12.03	0	0.00
12	12.76	16.24	0.00	4.62	8.31	12.93	15418	0.39
13	11.58	16.24	0.00	4.05	8.06	12.10	9712	0.00
14	12.15	16.24	0.00	4.53	7.90	12.43	6866	0.00
15	12.59	16.24	0.00	4.51	8.00	12.51	0	0.00
16	12.73	16.24	0.00	3.93	7.93	11.86	0	0.41
17	12.35	16.24	0.00	4.45	8.36	12.81	11025	0.00
18	12.13	16.24	0.00	4.47	7.93	12.40	6866	0.00
19	12.36	16.24	0.00	4.47	7.90	12.37	8525	0.41
20	14.33	16.24	0.00	4.45	7.99	12.44	12891	0.00
21	10.34	15.99	0.00	4.47	8.35	12.82	8725	0.00
22	12.63	18.49	0.00	4.51	7.99	12.50	0	0.00
23	12.28	18.18	0.00	4.53	7.79	12.32	0	0.38
24	12.14	16.59	0.00	4.31	7.73	12.04	2300	0.36
25	12.39	16.34	0.00	3.84	7.78	11.62	6866	0.37
26	13.61	17.71	0.00	4.88	8.46	13.35	13091	0.00
27	12.38	21.71	0.00	4.46	8.17	12.63	0	0.00
28	12.90	21.71	0.00	5.08	8.90	13.97	0	0.00
29	12.74	18.92	0.00	4.44	8.02	12.46	0	0.00
30	12.31	18.34	0.00	4.35	7.19	11.53	0	0.00
<b>Total (mg)</b>	<b>374.13</b>		<b>0.00</b>	<b>130.72</b>	<b>242.72</b>	<b>373.44</b>	<b>0.16</b>	<b>3.88</b>
<b>Average (mgd)</b>	<b>12.47</b>	<b>17.14</b>	<b>0.00</b>	<b>4.36</b>	<b>8.09</b>	<b>12.45</b>	<b>0.01</b>	<b>0.13</b>
<b>Maximum (mgd)</b>	<b>14.33</b>	<b>21.71</b>		<b>5.08</b>	<b>9.43</b>	<b>13.97</b>	<b>0.02</b>	<b>0.41</b>
					<b>% Difference</b>	<b>100.00</b>		

DECEMBER

VWRA  
Flows per Month  
2008

Date	Influent Flow (mgd)	Influent Peak (mgd)	North Percolation Pond Flow (mgd)	South Percolation Pond Flow (mgd)	Effluent (MGD) Mojave	Sum of Discharged Flows (mgd)	Septage Flow (gpd)	Reclaimed Flow to SCLA (mgd)
1	12.49	16.34	0.00	4.91	8.03	12.94	9000	0.00
2	12.05	16.41	0.00	5.01	7.79	12.80	6632	0.00
3	12.34	16.39	0.00	4.86	7.40	11.99	10357	0.37
4	12.08	16.18	0.00	4.47	7.40	11.87	4800	0.00
5	12.39	15.98	0.00	4.65	7.91	12.56	6659	0.00
6	12.52	18.43	0.00	4.96	7.81	12.77	0	0.00
7	12.33	17.82	0.00	4.16	7.65	11.81	0	0.36
8	12.50	16.67	0.00	4.57	8.28	12.85	2066	0.00
9	12.32	16.71	0.00	4.56	7.96	12.52	6459	0.00
10	12.48	17.07	0.00	4.40	7.51	11.91	4566	0.39
11	12.38	16.40	0.00	4.37	7.70	12.08	8759	0.00
12	12.37	15.38	0.00	4.36	8.23	12.59	10825	0.00
13	12.34	18.62	0.00	4.22	7.80	12.02	0	0.00
14	12.93	18.77	0.00	4.50	7.93	12.43	0	0.36
15	13.30	19.53	0.00	4.89	8.30	13.18	0	0.00
16	12.32	16.32	0.00	4.47	8.30	12.77	2300	0.00
17	12.28	15.40	0.00	4.73	9.41	14.14	0	0.00
18	14.30	21.96	0.00	5.37	9.87	15.24	0	0.00
19	13.38	18.81	0.00	4.20	7.71	11.90	2066	0.00
20	13.56	19.18	0.00	5.27	8.57	13.84	0	0.00
21	12.26	18.75	0.00	4.27	7.81	12.08	0	0.00
22	13.18	18.32	0.00	4.64	8.48	13.12	8774	0.00
23	13.08	18.47	0.00	4.43	8.22	12.65	15406	0.00
24	13.16	19.51	0.00	4.57	8.53	13.10	0	0.00
25	11.91	17.51	0.00	4.72	8.70	13.41	0	0.00
26	13.28	19.30	0.00	4.42	7.44	11.86	6666	0.00
27	12.93	19.63	0.00	4.68	7.98	12.66	0	0.00
28	12.72	18.95	0.00	10.06	8.18	18.24	0	0.00
29	13.00	18.29	0.00	9.85	9.12	18.97	13941	0.00
30	13.02	17.91	0.00	4.55	7.34	11.89	6666	0.00
31	12.87	18.87	0.00	4.48	8.58	13.06	0	0.00
<b>Total (mg)</b>	<b>394,07</b>	<b>17,87</b>	<b>0.00</b>	<b>153.60</b>	<b>251.65</b>	<b>405.25</b>	<b>0.13</b>	<b>1.48</b>
<b>Average (mgd)</b>	<b>12.71</b>	<b>17.87</b>	<b>0.00</b>	<b>4.95</b>	<b>8.12</b>	<b>13.07</b>	<b>0.00</b>	<b>0.05</b>
<b>Maximum (mgd)</b>	<b>14.30</b>	<b>21.96</b>	<b>0.00</b>	<b>10.06</b>	<b>9.87</b>	<b>18.97</b>	<b>0.02</b>	<b>0.39</b>
					<b>% Difference</b>	<b>100.00</b>		

**SECTION 3**

**FREEBOARD LEVELS**



VWRA  
Freeboard Levels  
2008

JANUARY

DATE	North Percolation Ponds						South Percolation Ponds			
	1 Freeboard (ft)	2 Freeboard (ft)	3 Freeboard (ft)	4 Freeboard (ft)	5 Freeboard (ft)	6 Freeboard (ft)	7 Freeboard (ft)	8 Freeboard (ft)	9 Freeboard (ft)	10 Freeboard (ft)
1	15.0	15.0	11.0	11.0	11.0	11.0	5.3	5.5		4.0
2	15.0	15.0	11.0	11.0	11.0	11.0	4.9	5.0		5.2
3	15.0	15.0	11.0	11.0	11.0	11.0	3.9	4.0		4.8
4	15.0	15.0	11.0	11.0	11.0	11.0	5.3	5.5		4.0
5	15.0	15.0	11.0	11.0	11.0	11.0	5.3	5.5		4.8
6	15.0	15.0	11.0	11.0	11.0	11.0	4.2	4.3		4.5
7	15.0	15.0	11.0	11.0	11.0	11.0	4.9	5.1		5.3
8	15.0	15.0	11.0	11.0	11.0	11.0	3.4	3.5		5.3
9	15.0	15.0	11.0	11.0	11.0	11.0	3.4	3.5		4.8
10	15.0	15.0	11.0	11.0	11.0	11.0	5.3	5.5		3.9
11	15.0	15.0	11.0	11.0	11.0	11.0	3.9	4.0		4.9
12	15.0	15.0	11.0	11.0	11.0	11.0	5.4	5.5		3.6
13	15.0	15.0	11.0	11.0	11.0	11.0	3.2	3.4		4.7
14	15.0	15.0	11.0	11.0	11.0	11.0	5.3	5.5		3.5
15	15.0	15.0	11.0	11.0	11.0	11.0	4.9	5.1		4.6
16	15.0	15.0	11.0	11.0	11.0	11.0	3.3	3.5		5.2
17	15.0	15.0	11.0	11.0	11.0	11.0	5.3	5.5		3.1
18	15.0	15.0	11.0	11.0	11.0	11.0	5.3	5.5		4.2
19	15.0	15.0	11.0	11.0	11.0	11.0	3.9	4.1		4.9
20	15.0	15.0	11.0	11.0	11.0	11.0	5.3	5.5		5.3
21	15.0	15.0	11.0	11.0	11.0	11.0	4.9	5.1		5.3
22	15.0	15.0	11.0	11.0	11.0	11.0	3.6	3.8		4.8
23	15.0	15.0	11.0	11.0	11.0	11.0	5.3	5.5		3.6
24	15.0	15.0	11.0	11.0	11.0	11.0	4.9	5.1		4.4
25	15.0	15.0	11.0	11.0	11.0	11.0	4.5	4.6		4.9
26	15.0	15.0	11.0	11.0	11.0	11.0	4.2	4.3		5.2
27	15.0	15.0	11.0	11.0	11.0	11.0	4.3	4.4		5.3
28	15.0	15.0	11.0	11.0	11.0	11.0	4.5	4.7		5.3
29	15.0	15.0	11.0	11.0	11.0	11.0	2.5	2.7		3.5
30	15.0	15.0	11.0	11.0	10.8	10.8	4.9	5.0		4.2
31	15.0	15.0	11.0	11.0	10.8	10.8	3.7	3.8		4.6
<b>AVG</b>	15.0	15.0	11.0	11.0	11.0	11.0	4.5	4.6		4.6
<b>Limit</b>	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
<b>MIN</b>	5.0	11.0	11.0	1.0	4.3	6.3	1.2	2.7		2.4

VVWRA  
Freeboard Levels  
2008

FEBRUARY

DATE	North Percolation Ponds						South Percolation Ponds			
	1 Freeboard (ft)	2 Freeboard (ft)	3 Freeboard (ft)	4 Freeboard (ft)	5 Freeboard (ft)	6 Freeboard (ft)	7 Freeboard (ft)	8 Freeboard (ft)	9 Freeboard (ft)	10 Freeboard (ft)
1	15.0	15.0	11.0	11.0	11.0	11.0	4.6	4.7		3.9
2	15.0	15.0	11.0	11.0	11.0	11.0	5.0	5.2		4.3
3	15.0	13.0	11.0	10.9	10.5	11.0	4.3	4.4		4.7
4	15.0	13.0	11.0	9.0	11.0	11.0	4.8	4.9		4.0
5	15.0	13.0	11.0	11.0	11.0	11.0	4.9	5.1		3.7
6	15.0	13.0	11.0	11.0	11.0	11.0	4.5	4.6		4.1
7	15.0	13.0	11.0	11.0	11.0	11.0	5.0	5.2		4.5
8	14.5	15.0	11.0	7.0	8.0	11.0	4.1	4.3		4.8
9	14.5	15.0	11.0	7.0	8.0	11.0	4.9	5.0		3.7
10	13.0	15.0	11.0	7.0	8.0	11.0	5.0	5.1		4.1
11	11.5	15.0	11.0	7.5	9.3	10.5	3.9	4.1		4.4
12	12.5	15.0	11.0	7.3	7.5	10.5	4.5	4.6		3.6
13	11.3	15.0	11.0	7.5	7.8	10.5	4.7	4.9		3.9
14	10.3	15.0	11.0	8.3	8.3	11.0	3.8	3.9		4.2
15	11.8	15.0	11.0	8.3	6.3	11.0	4.4	4.5		3.5
16	10.3	15.0	11.0	8.5	6.8	11.0	4.0	4.2		3.8
17	9.3	15.0	11.0	8.5	7.0	11.0	4.4	4.5		4.0
18	9.0	15.0	11.0	9.0	7.5	9.5	4.6	4.7		3.0
19	7.8	15.0	11.0	8.3	7.8	9.5	4.2	4.3		3.1
20	9.4	15.0	11.0	8.5	5.1	9.5	4.4	4.5		3.5
21	10.5	15.0	11.0	6.0	5.5	8.8	4.3	4.4		3.8
22	10.5	15.0	11.0	6.0	5.7	8.8	4.1	4.3		3.7
23	9.8	15.0	11.0	5.0	5.8	8.8	4.1	4.2		3.8
24	7.3	15.0	11.0	5.0	6.3	8.8	4.2	4.4		3.3
25	6.0	15.0	11.0	6.0	6.5	8.8	4.3	4.5		3.2
26	7.5	15.0	11.0	5.3	5.0	8.8	4.5	4.6		3.1
27	7.0	15.0	11.0	5.3	5.3	8.0	4.4	4.6		3.4
28	6.5	15.0	11.0	5.5	5.5	8.0	4.2	4.3		3.6
29	7.9	15.0	11.0	5.8	4.5	8.0	4.1	4.2		3.6
30										
31										
AVG	11.1	14.7	11.0	7.8	7.7	10.0	4.4	4.6		3.8
Limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
MIN	5.0	11.0	11.0	1.0	4.3	6.3	1.2	2.7		2.4

VVWRA  
Freeboard Levels  
2008

MARCH

DATE	North Percolation Ponds						South Percolation Ponds			
	1 Freeboard (ft)	2 Freeboard (ft)	3 Freeboard (ft)	4 Freeboard (ft)	5 Freeboard (ft)	6 Freeboard (ft)	7 Freeboard (ft)	8 Freeboard (ft)	9 Freeboard (ft)	10 Freeboard (ft)
1	7.3	15.0	11.0	5.8	5.0	7.8	4.0	4.0		4.0
2	6.5	14.0	11.0	6.0	5.5	7.8	3.9	4.0		4.2
3	7.5	14.0	11.0	6.0	4.5	7.8	4.3	4.4		3.6
4	6.0	14.5	11.0	6.0	5.0	7.5	4.2	4.3		3.3
5	6.0	14.0	11.0	6.2	5.5	7.5	3.8	4.0		3.4
6	7.0	14.3	11.0	6.0	4.3	7.3	3.7	3.9		3.5
7	6.3	14.3	11.0	6.3	5.0	7.3	3.7	3.8		3.6
8	6.0	14.0	11.0	6.3	5.3	7.0	3.7	3.9		3.6
9	7.1	14.0	11.0	4.8	6.0	7.0	3.6	3.8		3.7
10	8.2	14.0	11.0	4.8	4.5	7.1	3.8	3.9		3.5
11	7.0	14.0	11.0	5.0	5.0	7.1	3.7	3.8		3.4
12	6.0	14.0	11.0	5.0	5.5	7.0	3.6	3.7		3.2
13	7.3	14.0	11.0	5.3	4.3	7.0	3.7	3.8		3.1
14	6.5	14.0	11.0	5.3	5.0	7.0	3.4	3.6		2.4
15	6.0	13.8	11.0	5.5	5.0	7.0	3.5	3.6		3.0
16	7.0	13.5	11.0	5.8	4.3	6.8	3.6	3.7		3.2
17	6.2	13.8	11.0	6.0	5.0	6.8	4.0	4.1		3.3
18	7.3	14.0	11.0	4.5	5.1	6.6	4.3	4.4		3.4
19	6.0	14.0	11.0	4.7	5.5	6.7	4.1	4.2		3.3
20	6.0	14.0	11.0	4.7	5.5	6.7	3.8	4.0		3.4
21	6.5	14.0	11.0	5.0	4.9	6.3	3.9	4.0		3.5
22	5.0	14.0	11.0	4.3	5.4	6.5	4.1	4.3		3.6
23	6.8	13.5	11.0	4.3	6.0	6.5	4.3	4.4		3.7
24	7.8	13.5	11.0	4.8	4.6	6.5	4.5	4.6		3.8
25	6.5	13.5	11.0	5.0	5.3	6.5	4.7	4.9		3.9
26	6.8	13.5	11.0	5.1	5.0	6.5	5.0	5.1		4.0
27	7.0	13.8	11.0	5.3	4.8	6.5	5.4	5.6		4.1
28	6.5	13.8	11.0	5.3	5.3	6.5	5.4	5.6		3.9
29	7.0	14.0	11.0	5.0	6.0	7.5	5.4	5.6		3.9
30	6.8	14.0	11.0	4.7	6.0	6.5	5.4	5.6		3.9
31	7.8	14.0	11.0	4.8	5.0	7.5	5.4	5.6		4.0
AVG	6.7	14.0	11.0	5.3	5.1	7.0	4.2	4.3		3.6
Limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
MIN	5.0	11.0	11.0	1.0	4.3	6.3	1.2	2.7		2.4

VWRA  
Freeboard Levels  
2008

APRIL

DATE	North Percolation Ponds						South Percolation Ponds			
	1 Freeboard (ft)	2 Freeboard (ft)	3 Freeboard (ft)	4 Freeboard (ft)	5 Freeboard (ft)	6 Freeboard (ft)	7 Freeboard (ft)	8 Freeboard (ft)	9 Freeboard (ft)	10 Freeboard (ft)
1	7.0	14.0	11.0	5.0	5.0	6.5	5.4	5.6		4.1
2	6.3	14.0	11.0	5.3	6.5	6.5	5.4	5.6		4.2
3	7.0	14.0	11.0	5.5	5.0	6.5	5.4	5.6		4.2
4	7.5	14.0	11.0	5.5	5.0	6.5	5.4	5.6		4.3
5	7.3	14.0	11.0	5.8	5.5	7.0	5.4	5.6		4.4
6	6.8	14.3	11.0	6.0	6.0	7.0	5.4	5.6		4.4
7	7.3	14.3	11.0	6.0	5.0	7.0	5.4	5.5		4.5
8	6.9	14.3	11.0	6.3	5.0	7.0	5.4	5.6		4.6
9	7.3	14.3	11.0	5.5	5.3	7.0	5.4	5.6		4.7
10	8.3	14.3	11.0	4.3	5.5	7.0	5.4	5.6		4.7
11	8.0	14.3	11.0	4.5	5.3	7.0	5.2	5.3		4.8
12	7.5	14.3	11.0	5.0	5.5	7.0	5.1	5.3		4.8
13	8.0	14.3	11.0	5.0	6.0	7.0	5.1	5.2		4.9
14	8.3	14.5	11.0	5.3	6.0	7.0	4.7	4.8		4.1
15	8.5	14.5	11.0	5.5	6.5	7.3	5.1	5.2		5.0
16	8.5	14.5	11.0	5.5	6.5	7.3	5.4	5.6		5.1
17	9.5	14.5	11.0	6.0	6.5	7.5	5.1	5.3		5.2
18	9.8	14.5	11.0	6.3	6.8	7.5	5.2	5.3		5.1
19	8.8	15.0	11.0	7.0	7.0	7.8	5.2	5.3		5.1
20	7.5	14.5	11.0	6.3	7.3	7.5	5.4	5.6		5.1
21	7.0	15.0	11.0	6.5	7.3	8.0	5.1	5.3		5.1
22	6.5	15.0	11.0	7.0	7.5	8.1	5.2	5.6		5.1
23	7.6	15.0	11.0	7.0	6.0	7.0	5.1	5.3		5.1
24	8.5	15.0	11.0	7.0	4.5	8.0	5.2	5.3		5.1
25	9.3	15.0	11.0	6.0	5.0	8.0	5.2	5.3		5.1
26	9.8	15.0	11.0	5.3	5.3	8.0	5.2	5.3		5.1
27	9.3	15.0	11.0	4.8	5.5	8.0	5.4	5.6		5.0
28	8.0	15.0	11.0	5.0	5.7	8.0	5.4	5.6		5.1
29	7.3	15.0	11.0	5.3	6.0	8.0	5.4	5.6		5.1
30	6.8	15.0	11.0	5.5	6.0	8.0	1.2	5.6		5.1
31										
AVG	7.9	14.5	11.0	5.7	5.9	7.3	5.1	5.4		4.8
Limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
MIN	5.0	11.0	11.0	1.0	4.3	6.3	1.2	2.7		2.4

VWRA  
Freeboard Levels  
2008

MAY

DATE	North Percolation Ponds						South Percolation Ponds			
	1 Freeboard (ft)	2 Freeboard (ft)	3 Freeboard (ft)	4 Freeboard (ft)	5 Freeboard (ft)	6 Freeboard (ft)	7 Freeboard (ft)	8 Freeboard (ft)	9 Freeboard (ft)	10 Freeboard (ft)
1	7.3	15.0	11.0	5.5	5.0	8.0	5.2	5.4		5.1
2	7.3	15.0	11.0	5.5	5.0	8.0	5.2	5.3		5.1
3	9.0	15.0	11.0	4.5	5.0	8.5	5.1	5.3		5.1
4	8.1	15.0	11.0	4.8	5.0	8.5	5.1	5.3		5.1
5	7.8	15.0	11.0	5.1	5.1	8.5	5.2	5.3		5.1
6	7.5	15.0	11.0	5.3	5.2	8.5	5.1	5.3		5.1
7	8.3	15.0	11.0	5.5	5.5	8.5	5.1	5.3		5.1
8	7.5	15.0	11.0	5.0	5.5	8.0	5.1	5.3		5.1
9	8.0	15.0	11.0	5.0	5.5	8.3	5.1	5.3		5.1
10	8.8	15.0	11.0	5.3	6.0	8.3	5.1	5.3		5.0
11	8.8	15.0	11.0	5.8	6.0	8.5	5.4	5.6		5.1
12	9.0	15.0	11.0	6.2	6.0	8.8	5.1	5.3		5.1
13	8.0	15.0	11.0	6.2	6.2	8.8	5.1	5.3		5.1
14	7.5	15.0	11.0	6.5	6.3	8.8	5.0	5.2		5.1
15	8.0	15.0	11.0	6.0	6.5	8.8	5.2	5.3		5.2
16	8.5	15.0	11.0	5.3	6.5	8.8	5.2	5.3		5.2
17	9.0	15.0	11.0	5.8	6.5	9.8	5.2	5.3		5.2
18	9.3	15.0	11.0	6.0	6.7	9.0	5.1	5.3		5.1
19	9.7	15.0	11.0	5.5	6.8	9.0	5.4	5.6		5.1
20	10.0	15.0	11.0	5.0	6.8	9.0	5.1	5.3		5.1
21	8.3	15.0	11.0	5.5	7.1	9.1	5.4	5.5		5.0
22	8.3	15.0	11.0	5.8	7.3	9.0	5.1	5.2		5.0
23	8.3	15.0	11.0	5.8	7.3	9.0	5.1	5.3		5.1
24	8.3	15.0	11.0	5.8	7.3	9.0	5.1	5.3		5.1
25	8.5	15.0	11.0	6.5	7.5	9.3	5.1	5.3		5.1
26	8.3	15.0	11.0	7.0	7.5	9.3	5.1	5.3		5.1
27	7.8	15.0	11.0	7.3	7.5	9.3	5.1	5.3		5.1
28	7.5	15.0	11.0	7.0	7.5	9.0	5.1	5.3		5.1
29	7.5	15.0	11.0	7.0	7.5	9.0	5.0	5.2		5.1
30	7.0	15.0	11.0	7.0	7.5	9.0	4.9	5.0		5.2
31	7.0	15.0	11.0	7.0	7.5	9.0	5.1	5.3		5.1
AVG	8.2	15.0	11.0	5.9	6.4	8.8	5.1	5.3		5.1
Limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
MIN	5.0	11.0	11.0	1.0	4.3	6.3	1.2	2.7		2.4

VWRA  
Freeboard Levels  
2008

JUNE

DATE	North Percolation Ponds						South Percolation Ponds			
	1 Freeboard (ft)	2 Freeboard (ft)	3 Freeboard (ft)	4 Freeboard (ft)	5 Freeboard (ft)	6 Freeboard (ft)	7 Freeboard (ft)	8 Freeboard (ft)	9 Freeboard (ft)	10 Freeboard (ft)
1	7.3	15.0	11.0	8.0	7.8	9.0	5.1	5.3		5.1
2	7.0	15.0	11.0	8.0	8.0	9.0	5.2	5.4		5.1
3	6.8	15.0	11.0	8.0	8.0	9.0	5.0	5.2		5.0
4	7.5	15.0	11.0	8.5	7.0	9.5	5.2	5.4		5.1
5	8.0	15.0	11.0	8.5	6.3	9.5	5.1	5.3		5.1
6	8.5	15.0	11.0	9.0	6.0	9.5	5.1	5.2		5.1
7	9.0	15.0	11.0	9.8	6.0	9.5	5.4	5.6		5.1
8	9.0	15.0	11.0	9.0	5.5	9.5	5.1	5.3		5.1
9	9.3	15.0	11.0	8.0	4.5	9.0	4.8	4.9		5.1
10	8.3	15.0	11.0	10.0	5.0	9.0	5.0	5.2		5.2
11	7.5	15.0	11.0	10.0	5.0	9.0	5.0	5.2		5.1
12	7.0	15.0	11.0	10.5	5.5	10.0	4.9	5.0		5.0
13	7.5	15.0	11.0	10.5	5.5	10.0	4.8	5.0		4.9
14	8.3	15.0	11.0	10.5	5.5	10.0	4.8	5.0		5.1
15	8.3	15.0	11.0	8.5	6.0	10.0	4.6	4.8		4.9
16	8.5	15.0	11.0	8.0	6.0	9.0	4.8	4.9		4.9
17	9.0	15.0	11.0	8.0	6.0	7.0	4.7	4.9		5.0
18	9.3	15.0	11.0	7.0	6.3	9.5	4.8	4.9		4.8
19	9.3	15.0	11.0	6.3	6.5	9.0	5.0	5.1		5.0
20	9.5	15.0	11.0	6.0	6.5	9.5	5.0	5.2		4.7
21	9.8	15.0	11.0	6.0	6.8	9.5	5.2	5.3		4.7
22	10.0	15.0	11.0	6.0	6.8	9.5	5.1	5.3		4.7
23	10.0	15.0	11.0	6.0	6.8	9.5	5.1	5.3		5.1
24	10.3	15.0	11.0	5.2	7.0	9.5	5.4	5.6		5.3
25	9.8	15.0	11.0	5.2	7.0	9.5	4.9	5.1		4.3
26	8.5	15.0	11.0	5.5	7.3	9.5	5.1	5.2		4.7
27	8.5	15.0	11.0	6.0	7.3	9.5	5.1	5.3		4.1
28	8.5	15.0	11.0	6.0	7.5	9.5	5.1	5.3		4.3
29	8.3	15.0	11.0	7.5	6.0	9.3	5.0	5.2		4.0
30	8.5	15.0	11.0	7.5	7.5	9.5	5.0	5.2		4.1
31										
AVG	8.6	15.0	11.0	7.8	6.4	9.3	5.0	5.2		4.9
Limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
MIN	5.0	11.0	11.0	1.0	4.3	6.3	1.2	2.7		2.4

VWRA  
Freeboard Levels  
2008

JULY

DATE	North Percolation Ponds						South Percolation Ponds			
	1 Freeboard (ft)	2 Freeboard (ft)	3 Freeboard (ft)	4 Freeboard (ft)	5 Freeboard (ft)	6 Freeboard (ft)	7 Freeboard (ft)	8 Freeboard (ft)	9 Freeboard (ft)	10 Freeboard (ft)
1	8.2	15.0	11.0	7.5	7.7	9.5	5.1	5.2		4.4
2	8.1	15.0	11.0	7.5	7.8	9.5	5.1	5.2		5.0
3	8.2	15.0	11.0	7.5	8.0	9.5	5.1	5.3		4.7
4	8.3	15.0	11.0	7.5	8.0	9.5	5.2	5.3		3.8
5	8.2	15.0	11.0	7.5	8.0	9.5	5.2	5.3		4.3
6	8.3	15.0	11.0	7.5	8.0	9.5	5.1	5.2		4.5
7	8.3	15.0	11.0	8.0	8.3	9.3	5.1	5.2		4.4
8	8.0	15.0	11.0	9.0	8.4	9.3	5.1	5.2		3.9
9	7.8	15.0	11.0	9.0	8.4	9.3	5.1	5.2		3.8
10	8.0	15.0	11.0	9.0	8.5	10.0	5.0	5.1		3.4
11	8.0	15.0	11.0	11.0	8.5	10.0	5.4	5.6		3.6
12	8.3	15.0	11.0	9.0	8.8	9.8	5.4	5.5		4.1
13	7.8	15.0	11.0	9.0	8.8	9.8	5.0	5.2		3.2
14	7.3	15.0	11.0	9.0	8.8	9.8	4.9	5.0		3.4
15	7.1	15.0	11.0	9.5	8.8	9.8	4.8	4.9		3.3
16	7.1	15.0	11.0	9.5	8.8	9.8	4.8	4.9		3.1
17	7.0	15.0	11.0	8.5	9.0	9.5	4.9	5.1		3.1
18	7.0	15.0	11.0	8.5	9.0	9.5	4.8	4.9		3.2
19	7.0	15.0	11.0	8.0	8.5	9.0	4.6	4.7		3.5
20	8.5	15.0	11.0	9.5	7.0	9.8	4.7	4.9		3.2
21	9.0	15.0	11.0	9.5	6.5	9.8	4.9	5.0		3.5
22	9.3	15.0	11.0	9.5	6.0	9.8	4.7	4.9		3.3
23	9.5	15.0	11.0	9.5	5.5	9.8	4.7	4.8		3.0
24	9.5	15.0	11.0	9.0	6.5	9.8	4.7	4.9		3.2
25	9.8	15.0	11.0	8.8	6.5	9.8	4.7	4.8		5.3
26	9.5	15.0	11.0	7.3	6.8	9.8	4.7	4.9		5.2
27	9.5	15.0	11.0	7.0	7.0	9.8	4.5	4.7		5.0
28	8.5	15.0	11.0	7.5	7.3	9.8	4.4	4.6		4.9
29	8.1	15.0	11.0	8.0	7.3	9.8	4.4	4.5		5.3
30	7.8	15.0	11.0	8.3	7.5	9.8	4.4	4.5		5.3
31	7.5	15.0	11.0	8.0	8.0	9.0	4.3	4.4		4.9
AVG	8.2	15.0	11.0	8.5	7.8	9.6	4.9	5.0		4.0
Limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
MIN	5.0	11.0	11.0	1.0	4.3	6.3	1.2	2.7		2.4

VWRA  
Freeboard Levels  
2008

AUGUST

DATE	North Percolation Ponds						South Percolation Ponds			
	1 Freeboard (ft)	2 Freeboard (ft)	3 Freeboard (ft)	4 Freeboard (ft)	5 Freeboard (ft)	6 Freeboard (ft)	7 Freeboard (ft)	8 Freeboard (ft)	9 Freeboard (ft)	10 Freeboard (ft)
1	8.3	11.0	15.0	8.5	6.5	10.0	4.2	4.4		5.2
2	9.0	11.0	15.0	8.0	5.5	9.8	4.2	4.4		5.2
3	8.3	11.0	15.0	8.3	5.3	9.8	5.0	5.2		4.6
4	7.3	11.0	15.0	8.8	5.5	9.8	5.4	5.6		5.2
5	8.5	11.0	15.0	7.0	6.0	8.5	5.4	5.6		5.2
6	8.5	11.0	15.0	7.0	6.0	8.5	5.4	5.6		5.1
7	8.5	11.0	15.0	6.5	6.0	9.0	5.4	5.6		4.7
8	9.0	11.0	15.0	6.0	6.3	9.5	5.4	5.6		5.1
9	9.0	11.0	15.0	5.5	6.2	9.5	5.4	5.6		4.7
10	9.3	11.0	15.0	5.0	6.5	9.0	5.4	5.6		5.1
11	8.5	11.0	15.0	5.5	6.5	9.0	5.4	5.6		4.7
12	7.5	11.0	15.0	6.0	6.8	9.0	5.4	5.6		5.1
13	7.0	11.0	15.0	6.0	6.8	7.0	5.4	5.6		4.7
14	6.5	11.0	15.0	6.0	7.0	7.0	5.4	5.6		4.6
15	6.5	11.0	15.0	6.0	6.0	9.5	5.4	5.6		4.7
16	8.0	11.0	15.0	7.0	5.0	9.5	5.4	5.6		4.7
17	8.0	11.0	15.0	6.8	4.7	9.3	5.4	5.6		4.7
18	8.5	11.0	15.0	6.0	4.9	9.0	5.4	5.6		5.2
19	8.0	11.0	15.0	6.0	5.0	9.0	5.4	5.6		5.2
20	7.3	11.0	15.0	6.5	5.3	9.5	5.4	5.6		4.7
21	6.7	11.0	15.0	7.0	5.5	9.0	5.4	5.6		5.2
22	6.4	11.0	15.0	7.0	5.5	9.5	5.4	5.5		5.1
23	6.3	11.0	15.0	7.5	5.8	9.5	5.4	5.6		5.2
24	7.0	11.0	15.0	8.0	5.5	9.0	5.4	5.6		5.2
25	7.5	11.0	15.0	8.0	4.8	9.0	5.4	5.6		4.7
26	8.0	11.0	15.0	8.0	4.8	9.0	5.4	5.6		5.2
27	8.0	11.0	15.0	7.5	5.0	9.0	5.4	5.6		4.7
28	8.3	11.0	15.0	7.0	5.0	9.0	5.0	5.2		5.2
29	8.5	11.0	15.0	7.0	5.3	9.0	4.9	5.1		5.2
30	8.5	11.0	15.0	7.3	5.3	9.0	5.1	5.2		5.3
31	8.5	11.0	15.0	7.3	5.2	9.0	5.4	5.6		4.7
AVG	7.9	11.0	15.0	6.9	5.7	9.1	5.3	5.5		5.0
Limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
MIN	5.0	11.0	11.0	1.0	4.3	6.3	1.2	2.7		2.4



VWRA  
Freeboard Levels  
2008

SEPTEMBER

DATE	North Percolation Ponds						South Percolation Ponds			
	1 Freeboard (ft)	2 Freeboard (ft)	3 Freeboard (ft)	4 Freeboard (ft)	5 Freeboard (ft)	6 Freeboard (ft)	7 Freeboard (ft)	8 Freeboard (ft)	9 Freeboard (ft)	10 Freeboard (ft)
1	8.0	11.0	15.0	8.0	5.8	9.0	5.4	5.6		4.7
2	8.0	11.0	15.0	8.0	5.8	9.0	5.4	5.6		5.2
3	8.0	11.0	15.0	8.0	5.8	9.0	5.4	5.6		5.2
4	8.0	11.0	15.0	8.0	6.3	9.0	5.4	5.6		5.2
5	8.0	11.0	15.0	8.0	6.3	9.0	5.4	5.6		4.8
6	8.0	11.0	15.0	8.0	6.3	9.0	5.4	5.6		5.2
7	8.0	11.0	15.0	9.0	6.5	9.0	5.0	5.2		5.3
8	8.0	11.0	15.0	9.0	6.7	9.0	5.4	5.6		4.9
9	8.5	11.0	15.0	9.5	6.8	9.0	5.4	5.6		5.2
10	8.5	11.0	15.0	9.5	7.0	9.0	5.4	5.6		5.3
11	8.0	11.0	15.0	8.0	7.0	9.0	5.4	5.6		5.3
12	8.0	11.0	15.0	8.0	7.0	9.0	5.1	5.2		5.3
13	8.0	11.0	15.0	8.0	7.5	9.8	4.9	5.1		5.3
14	8.5	11.0	15.0	9.5	7.5	9.0	5.1	5.2		5.3
15	8.5	11.0	15.0	9.5	7.7	9.0	5.4	5.6		5.3
16	8.5	11.0	15.0	9.5	7.7	9.0	5.1	5.2		5.4
17	8.5	11.0	15.0	9.5	7.5	9.5	5.1	5.2		5.3
18	8.5	11.0	15.0	9.5	7.5	9.5	5.1	5.3		5.4
19	8.5	11.0	15.0	10.5	8.0	9.5	5.4	5.6		4.9
20	8.5	11.0	15.0	10.5	8.0	9.5	5.4	5.6		5.3
21	8.5	11.0	15.0	10.5	8.0	9.5	5.1	5.2		5.3
22	8.8	11.0	15.0	10.5	8.3	9.5	5.4	5.6		4.9
23	8.8	11.0	15.0	10.5	8.3	9.5	5.4	5.2		5.3
24	8.8	11.0	15.0	10.5	8.5	9.5	5.1	5.2		5.3
25	8.5	11.0	15.0	10.0	8.5	10.0	5.1	5.2		5.4
26	8.5	11.0	15.0	10.0	8.5	10.0	5.4	5.6		5.3
27	8.5	11.0	15.0	10.0	8.5	10.0	5.1	5.3		5.3
28	8.5	11.0	15.0	10.0	9.0	9.5	5.4	5.5		4.8
29	8.5	11.0	15.0	10.0	9.3	9.5	5.4	5.6		5.3
30	8.5	11.0	15.0	10.0	9.0	9.5	5.1	5.2		5.3
31										
AVG	8.3	11.0	15.0	9.3	7.5	9.3	5.3	5.4		5.2
Limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
MIN	5.0	11.0	11.0	1.0	4.3	6.3	1.2	2.7		2.4

VVWRA  
Freeboard Levels  
2008

OCTOBER

DATE	North Percolation Ponds						South Percolation Ponds			
	1 Freeboard (ft)	2 Freeboard (ft)	3 Freeboard (ft)	4 Freeboard (ft)	5 Freeboard (ft)	6 Freeboard (ft)	7 Freeboard (ft)	8 Freeboard (ft)	9 Freeboard (ft)	10 Freeboard (ft)
1	8.5	15.0	11.0	10.0	9.0	9.5	5.4	5.6		4.9
2	8.5	15.0	11.0	10.0	9.0	9.5	5.4	5.6		5.3
3	8.5	15.0	11.0	10.0	9.5	9.5	5.1	5.2		5.3
4	8.5	15.0	11.0	10.0	9.5	9.5	5.4	5.6		5.0
5	8.0	15.0	11.0	10.0	10.0	10.0	5.4	5.6		5.3
6	8.5	15.0	11.0	10.0	10.5	10.0	5.1	5.2		5.3
7	8.0	15.0	11.0	10.0	10.0	10.0	5.4	5.6		4.9
8	8.0	15.0	11.0	10.0	10.0	10.0	5.4	5.6		5.4
9	8.0	15.0	11.0	10.0	10.0	10.0	5.1	5.2		5.4
10	8.5	15.0	11.0	10.0	10.0	10.0	5.0	5.2		5.4
11	8.5	15.0	11.0	10.0	10.0	10.0	5.4	5.6		5.4
12	8.5	15.0	11.0	10.0	10.0	10.0	5.0	5.2		5.4
13	8.5	15.0	11.0	10.0	10.0	10.0	5.4	5.6		4.8
14	8.5	15.0	11.0	10.0	10.0	10.0	5.4	5.6		5.4
15	8.5	15.0	11.0	10.0	10.0	10.0	5.4	5.6		5.3
16	8.5	15.0	11.0	10.0	10.0	10.0	5.1	5.3		5.4
17	8.5	15.0	11.0	10.0	10.0	10.0	5.1	5.3		5.3
18	8.5	15.0	11.0	10.0	10.0	10.0	5.4	5.6		5.3
19	8.5	15.0	11.0	10.0	10.0	10.0	5.1	5.2		5.4
20	8.5	15.0	11.0	10.0	10.0	10.0	5.4	5.6		4.8
21	8.5	15.0	11.0	10.0	10.0	10.0	5.4	5.6		5.4
22	8.5	15.0	11.0	10.3	10.0	10.0	5.1	5.2		5.4
23	8.5	15.0	11.0	10.0	10.0	10.0	5.4	5.6		4.8
24	8.8	15.0	11.0	10.5	10.0	10.0	5.4	5.6		5.4
25	8.8	15.0	11.0	10.5	10.0	10.0	5.1	5.6		5.4
26	8.5	15.0	11.0	10.0	10.0	10.0	5.4	5.6		4.8
27	8.5	15.0	11.0	10.0	10.0	10.0	5.4	5.6		5.4
28	8.5	15.0	11.0	11.0	10.5	10.0	5.1	5.2		5.4
29	8.8	15.0	11.0	11.0	10.5	10.0	5.4	5.6		4.8
30	9.0	15.0	11.0	11.0	10.0	10.0	5.4	5.5		4.9
31	9.0	15.0	11.0	11.0	10.0	10.0	5.4	5.6		5.4
<b>AVG</b>	8.5	15.0	11.0	10.2	10.0	9.9	5.3	5.5		5.2
<b>Limit</b>	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
<b>MIN</b>	5.0	11.0	11.0	1.0	4.3	6.3	1.2	2.7		2.4

VWRA  
Freeboard Levels  
2008

NOVEMBER

DATE	North Percolation Ponds						South Percolation Ponds			
	1 Freeboard (ft)	2 Freeboard (ft)	3 Freeboard (ft)	4 Freeboard (ft)	5 Freeboard (ft)	6 Freeboard (ft)	7 Freeboard (ft)	8 Freeboard (ft)	9 Freeboard (ft)	10 Freeboard (ft)
1	9.0	15.0	11.0	11.0	10.0	10.0	5.4	5.6		4.9
2	9.3	15.0	11.0	11.0	10.5	10.0	5.4	5.6		5.4
3	9.3	15.0	11.0	11.0	10.5	10.0	5.0	5.2		5.4
4	9.3	15.0	11.0	11.0	10.5	10.0	5.4	5.6		4.9
5	9.5	15.0	11.0	11.0	10.5	10.0	5.4	5.6		4.9
6	9.5	15.0	11.0	11.0	10.5	10.0	5.4	5.6		4.9
7	9.5	15.0	11.0	11.0	10.5	10.0	5.4	5.6		4.9
8	9.5	15.0	11.0	11.0	10.5	10.0	5.4	5.6		4.9
9	9.5	15.0	11.0	11.0	10.5	10.0	5.4	5.6		4.9
10	9.5	15.0	11.0	11.0	10.5	10.0	5.4	5.6		4.9
11	10.8	15.0	11.0	11.0	10.5	10.0	5.4	5.6		4.9
12	12.0	15.0	11.0	11.0	10.5	10.0	5.4	5.6		4.9
13	13.0	15.0	11.0	9.0	11.0	10.0	5.4	5.6		4.9
14	13.8	15.0	11.0	9.0	11.0	10.0	5.4	5.6		4.9
15	14.0	15.0	11.0	10.0	11.0	10.0	5.4	5.6		4.9
16	14.0	15.0	11.0	10.0	11.0	10.0	5.4	5.6		4.9
17	13.3	15.0	11.0	10.0	11.0	10.0	5.4	5.6		4.9
18	10.0	15.0	11.0	11.0	10.0	10.0	5.4	5.6		4.9
19	13.0	15.0	11.0	10.0	11.0	10.0	5.4	5.6		4.9
20	13.0	15.0	11.0	10.0	11.0	10.0	5.4	5.6		4.9
21	13.5	15.0	11.0	10.0	11.0	10.0	5.0	5.2		5.3
22	13.5	15.0	11.0	10.0	11.0	10.0	5.4	5.6		4.9
23	13.5	15.0	11.0	10.0	11.0	10.0	5.4	5.6		5.0
24	13.0	15.0	11.0	10.0	10.0	9.5	5.4	5.5		4.6
25	13.0	15.0	11.0	10.0	10.0	9.5	5.4	5.5		5.3
26	13.5	15.0	11.0	10.0	11.0	10.0	5.4	5.6		5.4
27	13.5	15.0	11.0	10.0	11.0	10.0	5.4	5.6		5.4
28	13.5	15.0	11.0	10.0	11.0	10.0	5.4	5.6		5.4
29	13.5	15.0	11.0	10.0	11.0	10.0	5.4	5.6		5.3
30	14.0	15.0	11.0	10.0	11.0	10.0	5.0	5.2		5.3
31										
<b>AVG</b>	11.8	15.0	11.0	10.4	10.7	10.0	5.4	5.6		5.0
<b>Limit</b>	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
<b>MIN</b>	5.0	11.0	11.0	1.0	4.3	6.3	1.2	2.7		2.4

VWRA  
Freeboard Levels  
2008

DECEMBER

DATE	North Percolation Ponds						South Percolation Ponds			
	1 Freeboard (ft)	2 Freeboard (ft)	3 Freeboard (ft)	4 Freeboard (ft)	5 Freeboard (ft)	6 Freeboard (ft)	7 Freeboard (ft)	8 Freeboard (ft)	9 Freeboard (ft)	10 Freeboard (ft)
1	14.0	15.0	11.0	10.0	11.0	10.0	4.9	5.1		5.4
2	14.0	15.0	11.0	10.0	11.0	10.0	5.2	5.4		4.8
3	14.0	15.0	11.0	11.0	11.0	10.0	5.0	5.2		5.4
4	14.0	15.0	11.0	11.0	11.0	10.0	5.4	5.6		4.8
5	14.0	15.0	11.0	11.0	11.0	10.0	5.4	5.6		4.5
6	14.0	15.0	11.0	11.0	11.0	10.0	5.0	5.2		5.3
7	14.0	15.0	11.0	10.0	11.0	10.0	5.4	5.5		4.8
8	14.0	15.0	11.0	10.0	11.0	10.0	5.4	5.6		4.2
9	14.0	15.0	11.0	10.0	11.0	10.0	5.0	5.2		5.4
10	14.0	15.0	11.0	10.0	11.0	10.0	5.0	5.2		5.3
11	14.0	15.0	11.0	10.0	11.0	10.0	5.4	5.5		4.1
12	14.0	15.0	11.0	10.0	11.0	10.0	5.4	5.5		5.3
13	14.0	15.0	11.0	10.0	11.0	10.0	5.0	5.2		5.3
14	14.0	15.0	11.0	10.0	11.0	10.0	5.4	5.5		5.3
15	14.0	15.0	11.0	10.0	11.0	10.0	5.1	5.2		5.3
16	14.0	15.0	11.0	10.0	11.0	10.0	5.4	5.5		4.9
17	14.0	15.0	11.0	10.0	11.0	10.0	5.4	5.6		4.0
18	14.0	15.0	11.0	10.0	11.0	10.0	4.7	4.9		5.4
19	14.0	15.0	11.0	10.0	11.0	10.0	4.8	5.0		5.4
20	14.0	15.0	11.0	10.0	11.0	10.0	5.4	5.5		5.3
21	14.0	15.0	11.0	10.0	11.0	10.0	5.0	5.1		5.3
22	14.0	15.0	11.0	10.0	11.0	10.0	4.6	4.8		5.3
23	14.0	15.0	11.0	11.0	11.0	10.0	5.0	5.2		5.3
24	14.0	15.0	11.0	11.0	11.0	10.0	4.9	5.0		5.3
25	14.0	15.0	11.0	11.0	11.0	10.0	4.3	4.4		5.3
26	14.0	15.0	11.0	11.0	11.0	10.0	5.1	5.3		5.3
27	14.0	15.0	11.0	11.0	11.0	10.0	5.0	5.2		5.3
28	14.0	15.0	11.0	11.0	11.0	10.0	5.1	5.2		5.4
29	14.0	15.0	11.0	11.0	11.0	10.0	4.8	4.9		5.3
30	14.0	15.0	11.0	11.0	11.0	10.0	4.1	4.2		5.4
31	14.0	15.0	11.0	11.0	11.0	10.0	5.4	5.5		5.3
<b>AVG</b>	14.0	15.0	11.0	10.4	11.0	10.0	5.1	5.2		5.1
<b>Limit</b>	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
<b>MIN</b>	5.0	11.0	11.0	1.0	4.3	6.3	1.2	2.7		2.4

**SECTION 4**

**FACILITY INFLUENT MONITORING**

VWRA  
 Facility Influent Monitoring  
 2008  
 Schedule

Parameter	Units	Type of Sample	Frequency	2008 Sample Month (s)
pH	pH units	Continuous	Daily	N/A
Conductivity	μmhos/cm	Continuous	Daily	N/A
BOD	mg/L	24 hour composite	4/Weekly	N/A
TSS	mg/L	24 hour composite	4/Weekly	N/A
Nitrate - Nitrogen	mg/L as N	Grab	Monthly	N/A
Kjeldahl - Nitrogen	mg/L as N	Grab	Monthly	N/A
Ammonia - Nitrogen	mg/L as N	Grab	Monthly	N/A

This schedule reflects renewed NPDES permit requirements effective April 04, 2008.

VWRA  
 Facility Influent Monitoring  
 Weekly - Monthly  
 2008

JANUARY							FEBRUARY						
Date	pH (pH Units)	Conductivity (µmhos/cm)	BOD (mg/L)	TKN (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Date	pH (pH Units)	Conductivity (µmhos/cm)	BOD (mg/L)	TKN (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)
1	7.24		320				1	7.38	768				
2	7.42	819	276				2	7.36					
3	7.42	776	264				3	7.28					
4	7.32	780					4	7.26	776	391			
5	7.31						5	7.26	815		47	37.0	<0.2
6	7.29						6	7.26	815	359			
7	7.26	734	300				7	7.20	790	339			
8	7.29	789		41	30.0	<0.2	8	7.27	761				
9	7.09		334				9	7.37					
10	7.09	754	380				10	7.26					
11	7.28	751					11	7.24	763	350			
12	7.37						12	7.18	776	348			
13	7.24						13	7.24	758	442			
14	7.26	772	330				14	7.25	786				
15	7.39	824	280				15	7.20	771				
16	7.28	799	361				16	7.37					
17	7.23	818	463				17	7.24					
18	7.26	863					18	7.36		314			
19	7.60						19	7.24	767	428			
20	7.25						20	7.25	774	450			
21	7.24						21	7.29	810				
22	7.18	828	360				22	7.30	758				
23	7.32	897	336				23	7.35					
24	7.30	782	325				24	7.29					
25	7.32	749					25	7.25	786	340			
26	7.36						26	7.27	734	377			
27	7.26						27	7.24		330			
28	7.18	712					28	7.26	772	345			
29	7.24	810	310				29	7.25	750				
30	7.28	763	344										
31	7.22	856	381										
Average	7.28	794	335	41	30	<0.2	Average	7.27	775	370	47	37	<0.2
Minimum	7.09	712	264		30		Minimum	7.18	734	314		37	
Maximum	7.60	897	463		30		Maximum	7.38	815	450		37	

VWRA  
 Facility Influent Monitoring  
 Weekly - Monthly  
 2008

MARCH							APRIL						
Date	pH (pH Units)	Conductivity (µmhos/cm)	BOD (mg/L)	TKN (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Date	pH (pH Units)	Conductivity (µmhos/cm)	BOD (mg/L)	TKN (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)
1	7.29						1	7.26	730	456			
2	7.27						2	7.25	722	457			
3	7.24	755	338	57	31.0	<0.2	3	7.31	777	503			
4	7.28	757	365				4	7.23	795				
5	7.27	772	330				5	7.32	1029				
6	7.26	717	446				6	7.31	856				
7	7.30	753					7	7.27	736	405			
8	7.31						8	7.22	782	430	35	25.0	<0.2
9	7.24						9	7.29	751	454			
10	7.23	701	351				10	7.26	783	444			
11	7.20	690	413				11	7.24	750				
12	7.29	725	439				12	7.35	835				
13	7.29	722					13	7.33	800				
14	7.27	751					14	7.25	761	356			
15	7.39						15	7.26	785	185	40	23.0	<0.2
16	7.26						16	7.30	687	360			
17	7.25	774	290				17	7.28	739	413			
18	7.24	731	320				18	7.23	699				
19	7.34	916	480				19	7.33	758				
20	7.31	799					20	7.60	915	300			
21	7.33	810					21	7.36	690	300	39	27.0	<0.2
22	7.31						22	7.19	701				
23	7.26						23	7.32	717	382			
24	7.27	749	452				24	7.27	696	422			
25	7.18	823	494				25	6.40	808				
26	7.38	770					26	7.40	804				
27	7.32	760	470				27	7.30	784				
28	7.21	734					28	7.26	705	528			
29	7.23						29	7.21	740	448	50	25.0	<0.2
30	7.35						30	7.22	735	437			
31	7.30	772	407										
Average	7.28	761	400	57	31	<0.2	Average	7.26	769	404	41	25	<0.2
Minimum	7.18	690	290		31		Minimum	6.4	687	185		23	
Maximum	7.39	916	494		31		Maximum	7.60	1029	528		27	



VWRA  
 Facility Influent Monitoring  
 Weekly - Monthly  
 2008

MAY							JUNE						
Date	pH (pH Units)	Conductivity (µmhos/cm)	BOD (mg/L)	TKN (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Date	pH (pH Units)	Conductivity (µmhos/cm)	BOD (mg/L)	TKN (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)
1	7.53	706	397				1	7.26	807				
2	7.17	727					2	7.17	731	369			
3	7.24	737					3	7.22	721	442	44	28.0	<0.2
4	7.33	797					4	7.29	714	392			
5	7.12	753	328				5	7.22	722	426			
6	7.17	726	334	53	26.0	<0.2	6	7.20	699				
7	7.20	740	329				7	7.24	815				
8	7.23	729	424				8	7.34	830				
9	7.16	703					9	7.21	732	346			
10	7.37	786					10	7.19	727	430	40	26.0	<0.2
11	7.29	831					11	7.28	741	356			
12	7.19	745	278				12	7.38	693	465			
13	7.27	744	324	39	28.0	<0.2	13	7.22	684				
14	7.27	735	334				14	7.25	834				
15	7.18	732	394				15	7.41	870				
16	7.18	696					16	7.23	768	318			
17	7.33	781					17	7.16	699	350	36	26.0	<0.2
18	7.27	797					18	7.16	694	422			
19	7.15	719	485				19	7.21	737	408			
20	7.20	737	502	43	27.0	<0.2	20	7.24	742				
21	7.26	732	393				21	7.36	829				
22	7.25	739	390				22	7.28	796				
23	7.23	769					23	7.20	770	384			
24	7.39	766					24	7.26	747	404	35	26.0	<0.2
25	7.18	757					25	7.26	716	282			
26	7.23	761	444				26	7.24	712	346			
27	7.18	739	450	45	30.0	<0.2	27	7.20	734				
28	7.18	724	360				28	7.23	764				
29	7.20	729	378				29	7.39	837	300			
30	7.35	719					30	7.22	758	318			
31	7.37	751											
Average	7.25	745	385	45	28	<0.2	Average	7.25	754	375	39	27	<0.2
Minimum	7.12	696	278		26		Minimum	7.16	684	282		26	
Maximum	7.53	831	502		30		Maximum	7.41	870	465		28	

VWRA  
 Facility Influent Monitoring  
 Weekly - Monthly  
 2008

JULY							AUGUST							
Date	pH (pH Units)	Conductivity (µmhos/cm)	BOD (mg/L)	TKN (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Date	pH (pH Units)	Conductivity (µmhos/cm)	BOD (mg/L)	MBAS (mg/L)	TKN (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)
1	7.28	710	318	34	23.0	<0.2	1	7.33	706					
2	7.21	697	350				2	7.31	786					
3	7.26	742					3	7.25	753					
4	7.35	787					4	7.19	690	301	8.2			
5	7.30	782					5	7.18	709	299		46	24.0	<0.2
6	7.23	781					6	7.24	650	300				
7	7.26	762	342	36	26.0	<0.2	7	7.25	697	372				
8	7.20	716	334				8	7.19	715					
9	7.22	791	270				9	7.33	1087					
10	7.16	705	286				10	7.24	705					
11	7.29	700					11	7.22	704	334				
12	7.28	732					12	7.29	721	366		35	25.0	<0.2
13	7.27	795					13	7.27	741	366				
14	7.26	746	293				14	7.34	676	336				
15	7.22	704	338	44	26.0	<0.2	15	7.32	706					
16	7.23	684	296				16	7.39	720					
17	7.25	759	456				17	7.30	826					
18	7.25	688					18	7.19	729	296				
19	7.23	684					19	7.25	707	314		34	27.0	<0.2
20	7.36	799					20	7.23	743	280				
21	7.26	758	338				21	7.32	662	321				
22	7.17	691	378	43	25.0	<0.2	22	7.35	719					
23	7.22	707	394				23	7.28	808					
24	7.23	728	348				24	7.30	800					
25	7.24	670					25	7.23	712	300				
26	7.17	763					26	7.26	670	302		34	26.0	<0.2
27	7.26	806					27	7.25	725	290				
28	7.26	754	326				28	7.00	716	281				
29	7.23	724	361	43	29.0	<0.2	29	7.21	709					
30	7.19	686	346				30	7.26	787					
31	7.34	728	364				31	7.39	837					
Average	7.25	735	341	40	40	<0.2	Average	7.26	739	385	10	45	28	<0.2
Minimum	7.16	670	270		23		Minimum	7.00	650	278	10		26	
Maximum	7.36	806	456		29		Maximum	7.39	1087	502	10		30	

VWRA  
 Facility Influent Monitoring  
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SEPTEMBER							OCTOBER						
Date	pH (pH Units)	Conductivity (µmhos/cm)	BOD (mg/L)	TKN (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Date	pH (pH Units)	Conductivity (µmhos/cm)	BOD (mg/L)	TKN (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)
1	7.28	791	324				1	7.28	719	352			
2	7.31	656	314	42	26.0	1.0	2	7.38	646	369			
3	7.31	656	356				3	7.37	708				
4	7.33	677	310				4	7.40	771				
5	7.34	678					5	7.29	744				
6	7.41	758					6	7.25	784	300			
7	7.27	865					7	7.29	678	368	41	24.0	<0.2
8	7.22	735	336				8	7.32	651	258			
9	7.34	722	316	51	23.0	<0.2	9	7.34	748	310			
10	7.25	705	351				10	7.41	703				
11	7.34	683	326				11	7.35	777				
12	7.28	741					12	7.42	746				
13	7.50	770					13	7.32	707	352			
14	7.37	867					14	7.32	708	348	35	26.0	<0.2
15	7.26	717	385				15	7.31	737	340			
16	7.33	708	376	36	24.0	<0.2	16	7.37	670	363			
17	7.31	712	354				17	7.34	661				
18	7.31	690	326				18	7.51	746				
19	7.30	703					19	7.45	847				
20	7.41	854					20	7.30	677	336			
21	7.28	748					21	7.27	698	342	25	24.0	<0.2
22	7.26	695	393				22	7.20	650	384			
23	7.26	697	377	38	24.0	2.1	23	7.25	675	456			
24	7.28	692	402				24	7.28	698				
25	7.29	773	404				25	7.43	786				
26	7.29	700					26	7.27	741				
27	7.37	739					27	7.25	692	366			
28	7.32	810					28	7.22	678	387	37	23.0	<0.2
29	7.26	702	314				29	7.30	649	308			
30	7.27	769	348	36	26.0	<0.2	30	7.38	644	373			
							31	7.35	721				
Average	7.31	734	385	45	28	<0.2	Average	7.33	712	375	39	27	<0.2
Minimum	7.22	656	278		26		Minimum	7.20	644	282		26	
Maximum	7.50	867	502		30		Maximum	7.51	847	465		28	

VWRA  
 Facility Influent Monitoring  
 Weekly - Monthly  
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NOVEMBER							DECEMBER						
Date	pH (pH Units)	Conductivity (µmhos/cm)	BOD (mg/L)	TKN (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Date	pH (pH Units)	Conductivity (µmhos/cm)	BOD (mg/L)	TKN (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)
1	7.31	768					1	7.15	753	354			
2	7.41	834					2	7.24	742	372	48	30.0	<0.2
3	7.18	717	217				3	7.21	742	361			
4	6.96	844	224	46	33.0	<0.2	4	7.17	757	421			
5	7.46	717	332				5	7.17	721				
6	7.47	961	385				6	7.15	804				
7	7.32	768					7	7.15	787				
8	7.38	813					8	7.19	721	348			
9	7.40	799					9	7.24	766	374	45	26.0	<0.2
10	7.21	867	321				10	7.13	797	546			
11	7.31	834	366	43	28.0	<0.2	11	7.19	707	501			
12	7.57	823	371				12	7.25	797				
13	7.60	804	405				13	7.31	895				
14	7.34	709					14	7.22	781				
15	7.39	837					15	7.20	767	374			
16	7.39	814					16	7.21	914	368	48	28.0	<0.2
17	7.44	858	344				17	7.22	785	398			
18	7.36	827	362	39	26.0	<0.2	18	7.27	714	301			
19	7.26	713	346				19	7.20	752				
20	7.26	751	358				20	7.20	866				
21	7.24	710					21	7.18	843				
22	7.31	846					22	7.12	722	356			
23	7.36	770					23	7.22	804	316	38	27.0	<0.1
24	7.15	801	317				24	7.16	774	381			
25	7.16	734	348	40	30.0	<0.2	25	7.07	861	424			
26	7.16	705	325				26	7.23	784				
27	7.20	859	566				27	7.09	929				
28	7.10	801					28	7.21	846				
29	7.42	921					29	7.18	771	358			
30	7.01	774					30	7.16	820	386	43	27.0	<0.2
							31	7.19	855	386			
Average	7.30	799	375	39	27	<0.2	Average	7.19	793	341	40	26	<0.2
Minimum	6.96	705	282		26		Minimum	7.07	707	270		23	
Maximum	7.60	961	465		28		Maximum	7.31	929	456		29	

**SECTION 5**

**FACILITY EFFLUENT MONITORING**

VWRA  
Facility Effluent Monitoring  
2008

Parameter	Units	Type of Sample	Frequency	2008 Sample Month (s)
pH	pH units	Continuous	Continuous	N/A
Conductivity	µmhos/cm	Continuous	Continuous	N/A
Turbidity	NTU	Continuous	Continuous	N/A
Total Coliform	MPN/100 mL	Grab	Daily	N/A
Chlorine Residual	mg/L	Grab	Daily	N/A
BOD	mg/L	24 Hour Composite	4/Weekly	N/A
Total Suspended Solids	mg/L	24 Hour Composite	4/Weekly	N/A
Temperature	° C	Grab	Weekly	N/A
Dissolved Oxygen	mg/L	Grab	Weekly	N/A
Ammonia - Nitrogen	mg/L as N	Grab	2/Monthly	N/A
Nitrite - Nitrogen	mg/L as N	Grab	2/Monthly	N/A
Nitrate - Nitrogen	mg/L as N	Grab	2/Monthly	N/A
Kjeldahl - Nitrogen	mg/L as N	Grab	2/Monthly	N/A
MBAS	mg/L	24 Hour Composite	Monthly	N/A
Total Dissolved Solids	mg/L	24 Hour Composite	Monthly	N/A
Copper	mg/L	Grab	Monthly	N/A
Sodium	mg/L	Grab	Monthly	N/A
Zinc	mg/L	Grab	Monthly	N/A
Total Cyanide	mg/L	Grab	Monthly	N/A
Bromoform	mg/L	Grab	Monthly	N/A
Chloroform	mg/L	Grab	Monthly	N/A
Dibromochloromethane	mg/L	Grab	Monthly	N/A
Dichlorobromomethane	mg/L	Grab	Monthly	N/A
Bis(2-ethylhexyl)phthalate	mg/L	Grab	Monthly	N/A
Dibenzo(a,h)anthracene	mg/L	Grab	Monthly	N/A
Boron	mg/L	Grab	Quarterly	Jan-Apr-July-Oct
Chloride	mg/L	Grab	Quarterly	Jan-Apr-July-Oct
Fluoride	mg/L	Grab	Quarterly	Jan-Apr-July-Oct
Sulfate	mg/L	Grab	Quarterly	Jan-Apr-July-Oct
Total Hardness	mg/L	Grab	Quarterly	Jan-Apr-July-Oct
Oil and Grease	mg/L	Grab	Quarterly	Jan-Apr-July-Oct
Volatile Organic Compounds, including MTBE	mg/L	Grab	Annually	July
Base/Neutral/Acid Extractable Organics, including Dioxin	mg/L	Grab	Annually	July
Priority Pollutant Metals	mg/L	Grab	Annually	July
Asbestos	mg/L	Grab	Annually	July
Fecal Coliforms	MPN/100 mL	5 Grabs/Month	Annually	July

This schedule reflects renewed NPDES permit requirements effective April 04, 2008.

VWVRA  
 Facility Effluent Monitoring – River Discharge  
 Daily – Weekly  
 2008

January 2008

Date	Continuous			Daily		Four/Weekly		Weekly		Twice/Monthly			
	pH (units)	Conductivity (µmhos/cm)	Turbidity 24 Hr. Avg (NTU)	Total Coliform (MPN/100 mL)	Chlorine Residual Daily Avg. (mg/L)	B.O.D. (mg/L)	Suspended Solids (mg/L)	Dissolved Oxygen (mg/L)	Temperature (° C)	Ammonia as N (mg/L)	Nitrite as N (mg/L)	Nitrate as N (mg/L)	TKN as N (mg/L)
1	6.8		1.08	<2.0	<0.010	<5.0	2	7.3	19.6			9.9	
2	6.8	651	1.15	2.0	<0.010	3.0	3		19.7				
3	6.7	640	1.29	<2.0	<0.010	3.0	3		19.7				
4	6.7	618	1.26	<2.0	<0.010				19.6				
5	6.9		1.15	<2.0	<0.010				19.6				
6	6.8		1.10	<2.0	<0.010		3		19.7				
7	6.8	659	1.16	<2.0	0.010	<5.0	2		19.4			10.0	1.00
8	6.8	611	1.11	<2.0	<0.010		3	6.9	17.2	0.94		8.9	
9	6.7		1.62	<2.0	<0.010	4.0			19.5				
10	6.9	663	1.00	<2.0	0.430	3.0	3		19.6				
11	6.8	646	1.26	<2.0	<0.010				19.6				
12	6.7		1.09	<2.0	<0.010				19.6				
13	6.8		1.01	<2.0	<0.010		<2.0		19.5				
14	6.7	714	0.96	<2.0	<0.010	<5.0	2		19.4			10.0	
15	6.7	671	0.91	<2.0	<0.010	<3.0	3	7.1	19.4				
16	6.7	665	0.93	<2.0	<0.010	3.0	<2.0		19.2				
17	6.6	658	1.03	<2.0	<0.010	3.0	2		18.9				
18	6.6	656	0.96	<2.0	0.010				18.9				
19	6.7		0.89	<2.0	<0.010				18.9				
20	6.7		0.79	<2.0	<0.010				18.9				
21	6.7		0.85	<2.0	<0.010	<5.0	<2.0		18.9			9.8	
22	6.6	656	1.15	<2.0	<0.010		4		19.0				
23	6.7	663	1.36	<2.0	<0.010	4.0	<2.0	7.3	18.9				
24	6.7	665	1.20	<2.0	<0.010	3.0	4		18.7				
25	6.7	658	1.05	<2.0	<0.010				18.6				
26	7.1		1.00	<2.0	<0.010				19.1				
27	6.8		0.89	<2.0	<0.010		2		18.4				
28	6.5	617	0.96	<2.0	<0.010		3		18.2			8.1	
29	6.7	646	0.88	<2.0	<0.010	<3.0	2	7.3	18.4				
30	6.5	648	0.89	<2.0	<0.010	<3.0	3		18.4				
31	6.5	688	0.89	<2.0	<0.010	<3.0	2		18.4				
Avg	6.7	655	1.06	2.0	0.024	3.6	2	7.2	19.1	0.94		9.5	1.00
Max	7.1	714	1.62	2.0	0.430	5.0	4	7.3	19.7	0.94		10.0	1.00
Min	6.5	611	0.79	2.0	0.010	3.0	2	6.9	17.2	0.94		8.1	1.00

VWVRA  
 Facility Effluent Monitoring – River Discharge  
 Daily – Weekly  
 2008

February 2008

Date	Continuous			Daily		Four/Weekly		Weekly		Twice/Monthly			
	pH (units)	Conductivity (µmhos/cm)	Turbidity 24 Hr. Avg (NTU)	Total Coliform (MPN/100 mL)	Chlorine Residual Daily Avg. (mg/L)	B.O.D. (mg/L)	Suspended Solids (mg/L)	Dissolved Oxygen (mg/L)	Temperature (° C)	Ammonia as N (mg/L)	Nitrite as N (mg/L)	Nitrate as N (mg/L)	TKN as N (mg/L)
1	6.6	665	0.98	<2.0	<0.010				18.5				
2	6.7		1.03	<2.0	<0.010				18.5				
3	6.7		1.10	<2.0	<0.010		5		18.4				
4	6.6	679	1.11	<2.0	<0.010	4.0	4		18.4			9.1	
5	6.6	694	1.12	<2.0	<0.010		4	7.4	18.4	0.22		7.4	1.50
6	6.6	687	1.23	<2.0	<0.010	4.0	4		18.6				
7	6.5	672	1.28	<2.0	<0.010	4.0	5		18.8				
8	6.6	672	1.19	<2.0	<0.010				18.8				
9	6.8		1.41	<2.0	<0.010				18.9				
10	6.7		1.29	<2.0	<0.010		3		19.2				
11	6.6	689	1.25	<2.0	<0.010	<5.0	3		19.3			8.6	
12	6.7	662	1.09	<2.0	<0.010	5.0	2	7.0	19.3				
13	6.5	653	1.12	<2.0	<0.010	4.0	2		19.0				
14	6.6	635	1.26	<2.0	<0.010				18.6				
15	6.5	678	1.25	<2.0	<0.010				18.7				
16	6.6		1.14	<2.0	<0.010				19.1				
17	6.5		0.99	<2.0	<0.010				19.4				
18	6.6		0.89	<2.0	<0.010	4.0	2		19.6			9.4	
19	6.6	662	0.90	<2.0	<0.010	3.0	2	6.5	19.6				
20	6.5	672	0.93	<2.0	0.046	3.0	2		19.2				
21	6.6	698	0.79	<2.0	<0.010		2		19.2				
22	6.6	643	0.78	<2.0	<0.010				18.9				
23	6.7		0.76	<2.0	<0.010				18.9				
24	6.6		0.85	<2.0	<0.010		2		19.2				
25	6.6	656	0.89	<2.0	0.014	3.0	2		19.3			9.7	
26	6.7	645	0.94	<2.0	<0.010	3.0	3	6.1	16.7				
27	6.6		1.25	<2.0	<0.010	3.0	2		19.6				
28	6.6	643	1.08	<2.0	<0.010	3.0	3		19.7				
29	6.4	635	1.00	<2.0	<0.010				19.7				
Avg	6.6	665	1.07	2.0	0.011	3.7	3	6.7	19.0	0.22		8.8	1.50
Max	6.8	698	1.41	2.0	0.046	5.0	5	7.4	19.7	0.22		9.7	1.50
Min	6.4	635	0.76	2.0	0.010	3.0	2	6.1	16.7	0.22		7.4	1.50



VWVRA  
 Facility Effluent Monitoring – River Discharge  
 Daily – Weekly  
 2008

March 2008

Date	Continuous			Daily		Four/Weekly		Weekly		Twice/Monthly			
	pH (units)	Conductivity (µmhos/cm)	Turbidity 24 Hr. Avg (NTU)	Total Coliform (MPN/100 mL)	Chlorine Residual Daily Avg. (mg/L)	B.O.D. (mg/L)	Suspended Solids (mg/L)	Dissolved Oxygen (mg/L)	Temperature (° C)	Ammonia as N (mg/L)	Nitrite as N (mg/L)	Nitrate as N (mg/L)	TKN as N (mg/L)
1	6.7		1.25	<2.0	<0.010				19.5				
2	6.7		1.17	<2.0	<0.010		3		19.4				
3	6.7	629	1.00	<2.0	<0.010	4.0	2		19.4			10.0	
4	6.7	637	0.75	<2.0	<0.010	3.0	<2.0	6.8	19.6	0.15		9.0	1.20
5	6.7	635	0.75	<2.0	<0.010	3.0	2		19.4				
6	6.6	628	0.75	<2.0	<0.010	3.0	<2.0		19.6				
7	6.6	608	0.77	<2.0	<0.010				19.8				
8	6.6		0.98	<2.0	<0.010				19.8				
9	6.6		1.02	<2.0	<0.010		<2.0		19.9				
10	6.5	649	1.11	<2.0	<0.010	3.0	2		20.1			9.3	
11	6.6	632	1.14	<2.0	<0.010	3.0	2	6.4	20.2				
12	6.7	643	1.05	<2.0	<0.010	3.0	2		20.2				
13	6.6	637	1.03	<2.0	<0.010		3		20.2				
14	6.6	596	1.01	<2.0	<0.010				19.7				
15	6.6		0.92	<2.0	<0.010				19.4				
16	6.7		0.95	<2.0	<0.010		<2.0		19.7				
17	6.6	637	0.92	4.0	<0.010	<3.0	<2.0		19.9			0.3	
18	6.7	628	0.93	2.0	<0.010	3.0	2	6.9	20.2				
19	6.7	637	1.00	<2.0	<0.010	<3.0	2		20.3				
20	6.6	637	1.03	2.0	<0.010		2		20.2				
21	6.6	625	0.99	<2.0	<0.010				20.3				
22	6.6		1.00	<2.0	<0.010				20.3				
23	6.6		0.95	<2.0	<0.010		3		20.4				
24	6.6	640	0.85	<2.0	<0.010	4.0	2		20.5			11.0	
25	6.6	664	0.79	2.0	<0.010	3.0	2		20.4				
26	6.6	642	0.79	<2.0	<0.010			7.4	20.1				
27	6.7	638	0.77	<2.0	<0.010	<3.0	<2.0		20.3				
28	6.6	646	0.79	<2.0	<0.010				20.2				
29	6.7		0.74	<2.0	<0.010				20.5				
30	6.7		0.80	<2.0	<0.010		<2.0		20.4				
31	6.6	645	0.79	<2.0	<0.010	3.0	<2.0		20.6			10.0	
Avg	6.6	635	0.93	2.0	0.010	3.1	2	6.9	20.0	0.15		8.3	1.20
Max	6.7	664	1.25	4.0	0.010	4.0	3	7.4	20.6	0.15		11.0	1.20
Min	6.5	596	0.74	2.0	0.010	3.0	2	6.4	19.4	0.15		0.3	1.20

VWVRA  
 Facility Effluent Monitoring – River Discharge  
 Daily – Weekly  
 2008

April 2008

Date	Continuous			Daily		Four/Weekly		Weekly		Twice/Monthly			
	pH (units)	Conductivity (µmhos/cm)	Turbidity 24 Hr. Avg (NTU)	Total Coliform (MPN/100 mL)	Chlorine Residual Daily Avg. (mg/L)	B.O.D. (mg/L)	Suspended Solids (mg/L)	Dissolved Oxygen (mg/L)	Temperature (° C)	Ammonia as N (mg/L)	Nitrite as N (mg/L)	Nitrate as N (mg/L)	TKN as N (mg/L)
1	6.6	632	0.81	<2.0	<0.010	3.0	2	7.5	20.6				
2	6.5	633	0.95	<2.0	<0.010	4.0	2		20.8				
3	6.7	650	1.00	<2.0	<0.010	4.0	2		20.8				
4	6.5	642	1.05	<2.0	<0.010		2		20.8				
5	6.7	635	1.11	<2.0	<0.010				20.9				
6	6.8	643	1.05	<2.0	<0.010		2		20.9				
7	6.6	637	1.00	<2.0	<0.010	3.0	2		20.8				
8	6.6	639	1.05	<2.0	<0.010	3.0	2	7.4	20.6				
9	6.6	617	1.11	<2.0	<0.010	3.0	3		20.7	<0.10	<0.10	9.2	0.76
10	6.5	619	1.23	<2.0	<0.010	3.0	2		21.1				
11	6.5	629	1.16	2.0	<0.010				21.2				
12	6.7	636	1.27	<2.0	<0.010				21.7				
13	6.7	618	1.38	<2.0	<0.010		3		21.4				
14	6.6	621	1.37	<2.0	<0.010	5.0	3		21.4				
15	6.6	616	1.33	<2.0	<0.010	4.0	4	6.4	21.2	0.14	<0.10	8.5	1.20
16	6.7	629	1.24	<2.0	<0.010	3.0	3		21.2				
17	6.6	601	1.24	<2.0	<0.010	3.0	2		21.4				
18	6.6	616	1.11	<2.0	<0.010				21.4				
19	6.7	591	0.95	<2.0	<0.010				21.0				
20	6.5	598	0.85	<2.0	<0.010	<5.0	3		21.1				
21	6.5	606	0.91	<2.0	<0.010	<5.0	3		21.4				
22	6.5	596	0.91	<2.0	<0.010		4	6.9	21.7	0.10	<0.10	7.0	0.70
23	6.5	624	0.84	<2.0	0.006	3.0	4		21.4				
24	6.6	620	0.80	<2.0	<0.010	<3.0	2		21.6				
25	6.6	631	0.70	<2.0	<0.010				21.9				
26	6.7	618	0.70	<2.0	<0.010				22.1				
27	6.7	607	0.79	<2.0	<0.010		3		22.3				
28	6.5	612	0.72	<2.0	<0.010	3.0	2		22.3				
29	6.7	611	0.80	<2.0	<0.010	3.0	3	7.1	22.1	<0.10	<0.10	7.2	0.98
30	6.7	620	0.75	2.0	<0.010	<3.0	8		22.1				
Avg	6.6	622	1.01	2.0	0.010	3.5	3	7.1	21.3	0.11	0.10	8.0	0.91
Max	6.8	650	1.38	2.0	0.010	5.0	8	7.5	22.3	0.14	0.10	9.2	1.20
Min	6.5	591	0.70	2.0	0.006	3.0	2	6.4	20.6	0.10	0.10	7.0	0.70

VWVRA  
 Facility Effluent Monitoring – River Discharge  
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May 2008

Date	Continuous			Daily		Four/Weekly		Weekly		Twice/Monthly			
	pH (units)	Conductivity (µmhos/cm)	Turbidity 24 Hr. Avg (NTU)	Total Coliform (MPN/100 mL)	Chlorine Residual Daily Avg. (mg/L)	B.O.D. (mg/L)	Suspended Solids (mg/L)	Dissolved Oxygen (mg/L)	Temperature (° C)	Ammonia as N (mg/L)	Nitrite as N (mg/L)	Nitrate as N (mg/L)	TKN as N (mg/L)
1	6.6	628	0.82	<2.0	<0.010	3.0	2		21.8				
2	6.7	603	0.81	<2.0	<0.010				22.2				
3	6.8	607	0.80	<2.0	<0.010				22.3				
4	6.7	596	0.85	<2.0	<0.010		2		22.2				
5	6.5	604	0.85	<2.0	<0.010	<3.0	3		22.3				
6	6.7	592	0.76	<2.0	<0.010	<3.0	3	7.4	22.4	<0.10	<0.10	7.8	0.55
7	6.7	624	0.50	2.0	<0.010	<3.0	3		22.4				
8	6.6	617	0.72	<2.0	<0.010	<3.0	3		22.6				
9	6.7	611	0.72	<2.0	<0.010				22.6				
10	7.1	611	0.78	<2.0	<0.010				22.9				
11	6.8	593	0.78	<2.0	<0.010		3		22.8				
12	6.7	588	0.78	<2.0	<0.010	<3.0	2		22.6				
13	6.8	694	0.79	<2.0	<0.010	<3.0	3	7.4	22.6	<0.10	<0.10	8.7	0.57
14	6.7	620	0.80	<2.0	<0.010	<3.0	3		23.1				
15	6.7	617	0.84	<2.0	<0.010	<3.0	4		23.3				
16	6.6	592	0.84	<2.0	<0.010				23.3				
17	6.7	602	0.81	<2.0	<0.010				23.7				
18	6.8	595	0.79	<2.0	<0.010		3		24.0				
19	6.6	600	0.76	<2.0	<0.010	5.0	2		24.0				
20	6.6	613	0.76	<2.0	<0.010	4.0	2	6.8	23.5	<0.10	<0.10	9.7	0.56
21	6.4	634	1.00	<2.0	<0.010	<3.0	3		22.8				
22	6.8	646	0.99	<2.0	<0.010	<3.0	2		22.9				
23	6.6	606	0.75	<2.0	<0.010				22.8				
24	6.9	610	0.79	<2.0	<0.010				22.9				
25	6.6	609	0.78	<2.0	<0.010				22.9				
26	6.7	584	0.75	<2.0	<0.010	<3.0	2		23.2				
27	6.7	610	0.76	<2.0	<0.010	3.0	2	7.0	23.2	<0.10	<0.10	8.4	0.72
28	6.7	610	0.76	2.0	<0.010	<3.0	<2.0		23.2				
29	6.6	605	0.86	<2.0	<0.010	<3.0	2		23.3				
30	6.6	589	0.88	<2.0	<0.010				23.3				
31	6.6	620	0.85	<2.0	<0.010				23.2				
Avg	6.7	611	0.80	2.0	0.010	3.2	3	7.1	22.9	0.10	0.10	8.7	0.60
Max	7.1	694	1.00	2.0	0.010	5.0	4	7.4	24.0	0.10	0.10	9.7	0.72
Min	6.4	584	0.50	2.0	0.010	3.0	2	6.8	21.8	0.10	0.10	7.8	0.55

VWVRA  
 Facility Effluent Monitoring – River Discharge  
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June 2008

Date	Continuous			Daily		Four/Weekly		Weekly		Twice/Monthly			
	pH (units)	Conductivity (µmhos/cm)	Turbidity 24 Hr. Avg (NTU)	Total Coliform (MPN/100 mL)	Chlorine Residual Daily Avg. (mg/L)	B.O.D. (mg/L)	Suspended Solids (mg/L)	Dissolved Oxygen (mg/L)	Temperature (° C)	Ammonia as N (mg/L)	Nitrite as N (mg/L)	Nitrate as N (mg/L)	TKN as N (mg/L)
1	6.8	598	0.83	<2.0	<0.010		3		23.7				
2	6.7	585	0.67	<2.0	<0.010	<3.0	2		23.6				
3	6.7	615	0.65	<2.0	<0.010	<3.0	2	5.9	23.3	<0.10	<0.10	9.5	0.38
4	6.8	612	0.20	<2.0	<0.010	<3.0	2		23.1				
5	6.7	597	0.77	<2.0	<0.010	<3.0	5		23.6				
6	6.7	580	0.73	<2.0	<0.010				23.7				
7	6.7	584	0.75	<2.0	<0.010				23.8				
8	6.8	594	0.60	<2.0	<0.010		2		24.1				
9	6.9	600	0.66	2.0	<0.010	3.0	2		24.2				
10	6.8	616	0.73	<2.0	<0.010	<3.0	2	5.3	23.8	<0.10	<0.10	9.8	1.00
11	6.8	607	0.78	<2.0	<0.010	<3.0	2		24.2				
12	6.9	622	0.79	<2.0	<0.010	<3.0	3		24.5				
13	6.8	603	0.77	<2.0	<0.010				24.7				
14	6.8	587	0.82	<2.0	<0.010				24.7				
15	7.0	612	0.76	<2.0	<0.010		2		24.7				
16	6.7	599	0.75	<2.0	<0.010	<3.0	2		24.8				
17	6.6	611	0.60	2.0	<0.010	3.3	2		24.8	<0.10	<0.10	7.8	0.64
18	6.8	623	0.55	<2.0	<0.010	<3.0	1		24.8				
19	6.6	603	0.60	<2.0	<0.010	3.3	1		25.1				
20	6.7	630	0.71	<2.0	<0.010				25.2				
21	6.8	620	0.79	<2.0	<0.010				25.3				
22	6.8	613	0.82	<2.0	<0.010		2		25.3				
23	6.8	624	0.76	<2.0	<0.010	3.5	<2.0		25.4				
24	6.8	628	0.77	<2.0	<0.010	3.3	1		25.3	<0.10	<0.10	9.2	0.60
25	6.7	608	0.76	<2.0	<0.010	3.0	1		25.3				
26	6.7	605	0.75	<2.0	<0.010	<3.0	2		25.4				
27	6.7	601	0.69	<2.0	<0.010				25.4				
28	7.0	623	0.70	<2.0	<0.010				25.6				
29	6.8	613	0.72	<2.0	<0.010	<5.0	2		25.7				
30	6.9	607	0.76	<2.0	<0.010	3.7	2		25.7				
Avg	6.8	607	0.71	2.0	0.010	3.2	2	5.6	24.6	0.10	0.10	9.1	0.66
Max	7.0	630	0.83	2.0	0.010	5.0	5	5.9	25.7	0.10	0.10	9.8	1.00
Min	6.6	580	0.20	2.0	0.010	3.0	2	5.3	23.1	0.10	0.10	7.8	0.38

VWVRA  
 Facility Effluent Monitoring – River Discharge  
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July 2008

Date	Continuous			Daily		Four/Weekly		Weekly		Twice/Monthly			
	pH (units)	Conductivity (µmhos/cm)	Turbidity 24 Hr. Avg (NTU)	Total Coliform (MPN/100 mL)	Chlorine Residual Daily Avg. (mg/L)	B.O.D. (mg/L)	Suspended Solids (mg/L)	Dissolved Oxygen (mg/L)	Temperature (° C)	Ammonia as N (mg/L)	Nitrite as N (mg/L)	Nitrate as N (mg/L)	TKN as N (mg/L)
1	6.7	600	0.76	<2.0	<0.010	3.4	1	4.5	25.7	<0.10	<0.10	7.2	0.45
2	6.8	596	0.76	<2.0	<0.010	3.0	1		25.8				
3	6.7	619	0.79	<2.0	<0.010				25.9				
4	6.9	605	0.78	<2.0	<0.010				26.0				
5	6.9	622	0.79	<2.0	<0.010				25.9				
6	6.8	584	0.78	<2.0	<0.010		3		26.0				
7	6.8	617	0.75	<2.0	<0.010	<3.0	1		26.3	<0.10	<0.10	8.2	0.78
8	6.7	642	0.79	2.0	<0.010	3.0	1	4.5	26.4				
9	6.9	632	0.96	<2.0	<0.010	<3.0	2		26.6				
10	6.8	613	0.95	<2.0	<0.010	4.0	2		26.6				
11	6.7	620	1.00	<2.0	<0.010				26.5				
12	6.9	623	0.75	<2.0	<0.010				26.7				
13	6.8	615	0.85	<2.0	<0.010		2		26.8				
14	6.7	604	0.88	<2.0	<0.010	<3.0	2		26.7				
15	6.6	622	0.99	<2.0	<0.010	3.0	2	4.6	26.7	0.10	<0.10	8.1	0.68
16	6.7	603	1.01	<2.0	<0.010	3.0	2		26.8				
17	6.8	614	0.75	<2.0	<0.010	<3.0	2		26.7				
18	6.8	627	1.02	<2.0	<0.010				26.7				
19	6.7	599	1.05	<2.0	<0.010				26.8				
20	6.8	616	1.03	<2.0	<0.010		3		26.8				
21	6.7	599	0.98	<2.0	<0.010	3.0	1		26.7				
22	6.7	606	1.00	<2.0	<0.010	3.0	3	4.5	26.4	<0.10	<0.10	8.4	0.90
23	6.7	593	1.18	<2.0	<0.010	<3.0	1		25.5				
24	6.6	598	1.06	<2.0	<0.010	<3.0	1		26.5				
25	6.8	610	1.03	<2.0	<0.010				26.8				
26	6.8	591	1.01	<2.0	<0.010				26.9				
27	6.8	597	0.87	<2.0	<0.010		2		26.8				
28	6.6	597	0.80	<2.0	<0.010	<3.0	2		26.8				
29	6.6	587	1.04	<2.0	<0.010	<3.0	3	5.3	26.8	<0.10	<0.10	8.8	0.38
30	6.6	591	0.80	70.0	<0.010	3.0	2		26.7				
31	6.7	609	0.75	<2.0	<0.010	3.0	<2.0		26.8				
Avg	6.7	608	0.90	2.2	0.010	3.1	2	4.7	26.5	0.10	0.10	8.1	0.64
Max	6.9	642	1.18	70.0	0.010	4.0	3	5.3	26.9	0.10	0.10	8.8	0.90
Min	6.6	584	0.75	2.0	0.010	3.0	1	4.5	25.5	0.10	0.10	7.2	0.38

VWVRA  
 Facility Effluent Monitoring – River Discharge  
 Daily – Weekly  
 2008

August 2008

Date	Continuous			Daily		Four/Weekly		Weekly		Twice/Monthly			
	pH (units)	Conductivity (µmhos/cm)	Turbidity 24 Hr. Avg (NTU)	Total Coliform (MPN/100 mL)	Chlorine Residual Daily Avg. (mg/L)	B.O.D. (mg/L)	Suspended Solids (mg/L)	Dissolved Oxygen (mg/L)	Temperature (° C)	Ammonia as N (mg/L)	Nitrite as N (mg/L)	Nitrate as N (mg/L)	TKN as N (mg/L)
1	6.7	605	0.76	<2.0	<0.010				27.0				
2	6.9	614	0.76	<2.0	<0.010				26.9				
3	6.8	605	0.55	<2.0	<0.010		<2.0		27.2				
4	6.7	583	0.59	<2.0	<0.010	<3.0	<2.0		27.2				
5	6.6	598	0.69	<2.0	<0.010	<3.0	3	5.9	27.3	<0.10	<0.10	8.4	1.40
6	6.8	584	0.64	<2.0	<0.010	<3.0	<2.0		27.3				
7	6.7	592	0.75	<2.0	<0.010	<3.0	<2.0		27.3				
8	6.6	605	0.76	<2.0	<0.010				27.2				
9	6.8	612	0.69	<2.0	<0.010				27.1				
10	7.0	677	0.69	<2.0	<0.010		<2.0		27.1				
11	6.7	601	0.69	<2.0	<0.010	<3.0	<2.0		27.1				
12	6.7	611	0.69	<2.0	<0.010	3.0	<2.0	4.8	27.1	<0.10	<0.10	8.0	0.89
13	6.7	670	0.71	<2.0	<0.010	<3.0			27.2				
14	6.8	611	0.76	<2.0	<0.010	<3.0	2		27.4				
15	6.7	609	0.75	<2.0	<0.010				27.3				
16	6.9	594	0.74	<2.0	<0.010				27.2				
17	7.0	614	0.72	<2.0	<0.010		2		27.3				
18	6.7	594	0.72	<2.0	<0.010	<3.0	<2.0		27.2				
19	6.8	625	0.60	<2.0	<0.010	<3.0	<2.0		27.2	<0.10	<0.10	8.5	0.52
20	6.7	623	0.60	<2.0	<0.010	<3.0	2		27.1				
21	6.6	612	0.56	<2.0	<0.010	<3.0	<2.0		27.1				
22	6.7	629	0.50	<2.0	<0.010			4.8	27.1				
23	6.8	621	0.55	<2.0	<0.010				27.1				
24	6.9	615	0.51	<2.0	<0.010		3		27.4				
25	6.7	623	0.54	<2.0	<0.010	<5.0	<2.0		27.3				
26	6.7	622	0.72	<2.0	<0.010	<3.0	2	5.6	27.2	<0.10	<0.10	8.5	0.19
27	6.7	615	0.90	<2.0	<0.010	<3.0	2		27.3				
28	6.7	614	0.75	<2.0	<0.010	<3.0	2		27.4				
29	6.7	606	0.82	<2.0	<0.010				27.6				
30	6.8	602	0.83	<2.0	<0.010				27.4				
31	6.9	603	0.65	<2.0	<0.010				27.2				
Avg	6.7	613	0.68	2.0	0.010	3.1	2	5.3	27.2	0.10	0.10	8.4	0.75
Max	7.0	677	0.90	2.0	0.010	5.0	3	5.9	27.6	0.10	0.10	8.5	1.40
Min	6.6	583	0.50	2.0	0.010	3.0	2	4.8	26.9	0.10	0.10	8.0	0.19

VWRA  
 Facility Effluent Monitoring – River Discharge  
 Daily – Weekly  
 2008

September 2008

Date	Continuous			Daily		Four/Weekly		Weekly		Twice/Monthly			
	pH (units)	Conductivity (µmhos/cm)	Turbidity 24 Hr. Avg (NTU)	Total Coliform (MPN/100 mL)	Chlorine Residual Daily Avg. (mg/L)	B.O.D. (mg/L)	Suspended Solids (mg/L)	Dissolved Oxygen (mg/L)	Temperature (° C)	Ammonia as N (mg/L)	Nitrite as N (mg/L)	Nitrate as N (mg/L)	TKN as N (mg/L)
1	6.8	589	0.50	<2.0	<0.010	<3.0	1		27.1				
2	6.7	628	0.51	<2.0	<0.010	<3.0	1		27.2	0.11	<0.10	7.5	0.45
3	6.7	628	0.50	<2.0	<0.010	<3.0	2		27.3				
4	6.9	608	0.52	<2.0	<0.010	<3.0	1	5.4	27.3				
5	6.7	621	0.73	<2.0	<0.010				27.3				
6	7.0	598	0.77	<2.0	<0.010				27.4				
7	6.9	606	0.75	<2.0	<0.010		2		27.4				
8	6.7	616	0.91	<2.0	<0.010	<3.0	2		27.3				
9	6.8	600	0.82	<2.0	<0.010	<3.0	2		26.9	<0.10	<0.10	7.1	0.58
10	6.7	610	0.75	<2.0	<0.010	<3.0	2	6.2	26.9				
11	6.7	625	0.79	<2.0	<0.010	<3.0	2		26.9				
12	6.8	623	0.75	<2.0	<0.010				26.9				
13	6.9	630	0.76	<2.0	<0.010				27.0				
14	7.0	617	0.77	<2.0	<0.010		2		27.1				
15	6.9	613	0.76	<2.0	<0.010	3.0	3		27.1				
16	6.9	634	0.76	<2.0	<0.010	3.0	2		27.2	<0.10	<0.10	7.1	0.64
17	6.8	625	0.76	<2.0	<0.010	3.0	2	5.4	27.2				
18	6.6	613	0.77	<2.0	<0.010	3.0	2		27.1				
19	6.7	619	0.75	<2.0	<0.010				26.9				
20	7.0	633	0.64	<2.0	<0.010				26.7				
21	6.9	602	0.52	<2.0	<0.010		1		26.7				
22	6.9	612	0.58	<2.0	<0.010	<3.0	<2.0		26.7				
23	6.8	624	0.65	<2.0	<0.010	<3.0	1		26.6	0.12	<0.10	7.0	0.51
24	6.7	606	0.59	<2.0	<0.010	<3.0	1	5.7	26.6				
25	6.7	592	0.66	<2.0	<0.010	<3.0	2		26.7				
26	6.9	598	0.60	<2.0	<0.010				26.7				
27	6.9	596	0.56	<2.0	<0.010				26.8				
28	6.9	589	0.62	<2.0	<0.010		2		26.7				
29	6.8	571	0.56	<2.0	<0.010	<3.0	1		26.6				
30	6.8	595	0.69	<2.0	<0.010	<3.0	1		26.8	<0.10	<0.10	8.0	0.29
Avg	6.8	611	0.68	2.0	0.010	3.0	2	5.7	27.0	0.11	0.10	7.3	0.49
Max	7.0	634	0.91	2.0	0.010	3.0	3	6.2	27.4	0.12	0.10	8.0	0.64
Min	6.6	571	0.50	2.0	0.010	3.0	1	5.4	26.6	0.10	0.10	7.0	0.29

VWWKA  
 Facility Effluent Monitoring – River Discharge  
 Daily – Weekly  
 2008

October 2008

Date	Continuous			Daily		Four/Weekly		Weekly		Twice/Monthly			
	pH (units)	Conductivity (µmhos/cm)	Turbidity 24 Hr. Avg (NTU)	Total Coliform (MPN/100 mL)	Chlorine Residual Daily Avg. (mg/L)	B.O.D. (mg/L)	Suspended Solids (mg/L)	Dissolved Oxygen (mg/L)	Temperature (° C)	Ammonia as N (mg/L)	Nitrite as N (mg/L)	Nitrate as N (mg/L)	TKN as N (mg/L)
1	6.7	610	0.52	<2.0	<0.010	<3.0	1	6.9	26.8				
2	6.8	584	0.53	<2.0	<0.010	<3.0	1		26.5				
3	6.8	599	0.51	<2.0	<0.010				26.1				
4	6.9	616	0.53	<2.0	<0.010				25.9				
5	7.0	604	0.52	<2.0	<0.010		1		26.0				
6	6.8	615	0.52	<2.0	<0.010	<3.0	<1.0		26.1				
7	6.9	611	0.69	<2.0	<0.010	<3.0	<1.0		26.1	<0.10	<0.10	6.7	0.66
8	6.9	604	0.75	<2.0	<0.010	<3.0	2	6.3	26.2				
9	6.8	629	0.74	<2.0	<0.010	<3.0	1		25.6				
10	6.8	620	0.51	<2.0	<0.010				24.8				
11	6.9	596	0.53	<2.0	<0.010				24.5				
12	7.0	588	0.58	<2.0	<0.010		1		24.7				
13	6.7	566	0.66	<2.0	<0.010	<3.0	1		24.7				
14	6.7	591	0.73	<2.0	<0.010	<3.0	1		24.9	<0.10	<0.10	6.4	0.54
15	6.7	617	0.71	<2.0	<0.010	<3.0	1	6.4	25.1				
16	6.7	597	0.69	<2.0	<0.010	<3.0	1		25.1				
17	6.8	574	0.73	<2.0	<0.010				25.2				
18	6.9	594	0.57	<2.0	<0.010				25.1				
19	7.0	598	0.54	<2.0	<0.010		1		25.2				
20	6.7	592	0.55	<2.0	<0.010	<3.0	<1.0		25.1				
21	6.7	599	0.52	<2.0	<0.010	<3.0	1		24.9	<0.10	<0.10	8.6	0.74
22	6.7	602	0.54	<2.0	<0.010	<3.0	1	6.6	24.7				
23	6.6	587	0.52	<2.0	<0.010	<3.0	1		24.6				
24	6.7	606	0.60	<2.0	<0.010				24.6				
25	6.8	586	0.62	<2.0	<0.010				24.6				
26	6.8	565	0.51	<2.0	<0.010		2		24.7				
27	6.6	596	0.52	<2.0	<0.010	<3.0	2		24.7				
28	6.6	604	0.51	<2.0	<0.010	<3.0	2		24.8	<0.10	<0.10	7.4	0.20
29	6.7	589	0.51	<2.0	<0.010	<3.0	1	6.2	24.8				
30	6.7	583	0.51	<2.0	<0.010	<3.0	2		24.7				
31	6.7	606	0.51	<2.0	<0.010				24.6				
Avg	6.8	598	0.58	2.0	0.010	3.0	1	6.5	25.2	0.10	0.10	7.3	0.54
Max	7.0	629	0.75	2.0	0.010	3.0	2	6.9	26.8	0.10	0.10	8.6	0.74
Min	6.6	565	0.51	2.0	0.010	3.0	1	6.2	24.5	0.10	0.10	6.4	0.20



VWVKA  
 Facility Effluent Monitoring – River Discharge  
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November 2008

Date	Continuous			Daily		Four/Weekly		Weekly		Twice/Monthly			
	pH (units)	Conductivity (µmhos/cm)	Turbidity 24 Hr. Avg (NTU)	Total Coliform (MPN/100 mL)	Chlorine Residual Daily Avg. (mg/L)	B.O.D. (mg/L)	Suspended Solids (mg/L)	Dissolved Oxygen (mg/L)	Temperature (° C)	Ammonia as N (mg/L)	Nitrite as N (mg/L)	Nitrate as N (mg/L)	TKN as N (mg/L)
1	6.7	578	0.51	2.0	<0.010				24.7				
2	6.9	594	0.51	<2.0	<0.010		2		24.6				
3	6.7	584	0.53	<2.0	<0.010	<3.0	<1.0		24.3				
4	6.8	584	0.54	<2.0	<0.010	<3.0	1		23.7	0.07	0.03	8.2	0.32
5	6.8	618	0.54	<2.0	<0.010	<3.0	1	6.5	23.6				
6	6.9	597	0.54	<2.0	<0.010	<3.0	<1.0		23.6				
7	6.7	576	0.54	<2.0	<0.010				23.6				
8	6.8	579	0.54	<2.0	<0.010				23.6				
9	7.0	587	0.54	<2.0	<0.010		3		23.6				
10	6.9	603	0.54	<2.0	<0.010	<3.0	<1.0		23.6				
11	6.9	608	0.54	<2.0	<0.010	<3.0	<1.0	7.1	23.6	<0.10	<0.10	8.1	0.44
12	6.9	593	0.54	<2.0	<0.010	<3.0	<1.0		23.6				
13	7.0	592	0.54	<2.0	<0.010	<3.0	<1.0		23.6				
14	6.8	601	0.54	<2.0	<0.010				23.6				
15	6.8	612	0.54	<2.0	<0.010				23.6				
16	7.0	599	0.54	<2.0	<0.010		1		23.6				
17	6.9	573	0.54	<2.0	<0.010	<3.0	1		23.6				
18	6.7	597	0.54	<2.0	<0.010	<3.0	2		23.6	0.14	<0.10	8.4	0.10
19	6.6	591	0.54	<2.0	<0.010	<3.0	<1.0		23.6				
20	6.6	611	0.54	<2.0	<0.010	<3.0	1	7.0	23.6				
21	6.5	590	1.05	<2.0	<0.010				23.2				
22	6.9	610	0.73	<2.0	<0.010				23.2				
23	6.9	599	0.76	<2.0	<0.010		<1.0		23.1				
24	6.5	632	0.79	<2.0	<0.010	<3.0	<1.0		23.2				
25	6.5	606	0.91	<2.0	<0.010	<3.0	2	6.2	23.2	<0.10	<0.10	8.8	0.53
26	6.5	594	0.86	2.0	<0.010	<3.0			23.1				
27	6.7	626	0.57	<2.0	<0.010	<3.0	1		23.1				
28	6.5	612	0.57	<2.0	<0.010				23.1				
29	6.5	595	0.94	<2.0	<0.010				22.8				
30	6.6	627	0.90	<2.0	<0.010		1		22.9				
Avg	6.7	599	0.63	2.0	0.010	3.0	1	6.7	23.5	0.10	0.08	8.4	0.35
Max	7.0	632	1.05	2.0	0.010	3.0	3	7.1	24.7	0.14	0.10	8.8	0.53
Min	6.5	573	0.51	2.0	0.010	3.0	1	6.2	22.8	0.07	0.03	8.1	0.10

VWVRA  
 Facility Effluent Monitoring – River Discharge  
 Daily – Weekly  
 2008

December 2008

Date	Continuous			Daily		Four/Weekly		Weekly		Twice/Monthly			
	pH (units)	Conductivity (µmhos/cm)	Turbidity 24 Hr. Avg (NTU)	Total Coliform (MPN/100 mL)	Chlorine Residual Daily Avg. (mg/L)	B.O.D. (mg/L)	Suspended Solids (mg/L)	Dissolved Oxygen (mg/L)	Temperature (° C)	Ammonia as N (mg/L)	Nitrite as N (mg/L)	Nitrate as N (mg/L)	TKN as N (mg/L)
1	6.5	595	1.00	<2.0	<0.010	<3.0	1		22.7				
2	6.9	656	0.71	<2.0	<0.010	<3.0	2		22.4	<0.10	<0.10	9.9	<0.10
3	6.6	659	0.89	<2.0	<0.010	3.0	2	6.4	22.3				
4	6.5	616	1.01	<2.0	<0.010	<3.0	1		22.2				
5	6.5	595	1.01	<2.0	<0.010				21.9				
6	6.6	622	1.00	<2.0	<0.010				22.2				
7	6.8	611	1.01	<2.0	<0.010		2		22.2				
8	6.7	623	0.91	<2.0	<0.010	<3.0	1		21.9				
9	6.9	613	1.02	<2.0	<0.010	<3.0	1		21.5	<0.10	<0.10	9.2	0.21
10	6.6	623	0.85	<2.0	<0.010	<3.0	1		21.6				
11	6.6	613	0.55	<2.0	<0.010	<3.0	2	5.0	21.6				
12	6.6	630	0.72	<2.0	<0.010				21.6				
13	6.8	610	0.99	<2.0	<0.010				21.0				
14	6.7	603	0.90	<2.0	<0.010				20.7				
15	6.7	628	1.00	<2.0	<0.010	<3.0	1		20.4				
16	6.6	614	1.00	<2.0	<0.010	<3.0	1		20.9	<0.10	<0.10	9.3	0.53
17	6.6	622	0.88	<2.0	<0.010	<3.0	1		20.2				
18	6.6	597	0.92	<2.0	<0.010	3.0	2		19.2				
19	6.6	568	0.83	<2.0	<0.010				19.6				
20	6.6	602	0.62	<2.0	<0.010				19.8				
21	6.5	608	0.95	<2.0	<0.010		2		20.1				
22	6.6	601	1.01	<2.0	<0.010	3.0	2		19.8				
23	6.7	576	1.01	<2.0	<0.010	<3.0	2		20.1	<0.10	<0.10	8.2	0.16
24	6.7	607	1.01	<2.0	<0.010	<3.0			20.2				
25	6.7	593	1.02	<2.0	<0.010	<3.0	2		19.5				
26	6.8	621	1.01	<2.0	<0.010				19.2				
27	6.7	649	1.01	<2.0	<0.010				19.4				
28	6.8	600	1.01	<2.0	<0.010		2		19.6				
29	7.2	646	1.01	<2.0	<0.010	<3.0	1		19.7				
30	6.6	629	1.00	<2.0	<0.010	<3.0	1		19.7	<0.10	<0.10	7.7	0.56
31	6.8	657	1.05	<2.0	<0.010	<3.0			19.8				
Avg	6.7	616	0.93	2.0	0.010	3.0	2	5.7	20.8	0.10	0.10	8.9	0.31
Max	7.2	659	1.05	2.0	0.010	3.0	2	6.4	22.7	0.10	0.10	9.9	0.56
Min	6.5	568	0.55	2.0	0.010	3.0	1	5.0	19.2	0.10	0.10	7.7	0.10

VWVRA  
 Facility Effluent Monitoring – River Discharge  
 Monthly  
 2008

January 2008

Date	Total Dissolved Solids (mg/L)	MBAS (mg/L)	Copper (µg/L)	Sodium (mg/L)	Zinc (µg/L)	Total Cyanide (µg/L)	Bis(2-ethylhexyl) phthalate (µg/L)	Dibenzo(a,h) anthracene (µg/L)	Bromoform (µg/L)	Chloroform (µg/L)	Dichlorobromomethane (µg/L)	Dibromochloromethane (µg/L)
1	384	0.16										
2												
3												
4												
5												
6												
7		0.17	< 50.00	87	63	*	*	*	<0.50	22	0.7	4.1
8	415											
9												
10												
11												
12												
13												
14		0.14										
15	451											
16												
17												
18												
19												
20												
21	386	0.14										
22												
23												
24												
25												
26												
27												
28	501	0.22										
29												
30												
31												
Avg	427	0.17	50	87	63	*	*	*	0.5	22	0.7	4.1
Max	501	0.22	50	87	63	*	*	*	0.5	22	0.7	4.1
Min	384	0.14	50	87	63	*	*	*	0.5	22	0.7	4.1

\*Monthly monitoring of these parameters was not required until after the VWVRA NPDES Permit Renewal in April 2008.

VWVRA  
 Facility Effluent Monitoring – River Discharge  
 Monthly  
 2008

February 2008

Date	Total Dissolved Solids (mg/L)	MBAS (mg/L)	Copper (µg/L)	Sodium (mg/L)	Zinc (µg/L)	Total Cyanide (µg/L)	Bis(2-ethylhexyl) phthalate (µg/L)	Dibenzo(a,h) anthracene (µg/L)	Bromoform (µg/L)	Chloroform (µg/L)	Dichlorobromo-methane (µg/L)	Dibromochloro-methane (µg/L)
1												
2												
3												
4	474	0.17	< 10.00	91	56	*	*	*				
5									<0.50	20	3	<0.50
6												
7												
8												
9												
10												
11	423	0.16										
12												
13												
14												
15												
16												
17												
18	526	0.18										
19												
20												
21												
22												
23												
24												
25	402	0.09										
26												
27												
28												
29												
Avg	456	0.15	10	91	56	*	*	*	0.5	20	3	0.5
Max	526	0.18	10	91	56	*	*	*	0.5	20	3	0.5
Min	402	0.09	10	91	56	*	*	*	0.5	20	3	0.5

\*Monthly monitoring of these parameters was not required until after the VWVRA NPDES Permit Renewal in April 2008.

VWVRA  
 Facility Effluent Monitoring – River Discharge  
 Monthly  
 2008

March 2008

Date	Total Dissolved Solids (mg/L)	MBAS (mg/L)	Copper (µg/L)	Sodium (mg/L)	Zinc (µg/L)	Total Cyanide (µg/L)	Bis(2-ethylhexyl) phthalate (µg/L)	Dibenzo(a,h) anthracene (µg/L)	Bromoform (µg/L)	Chloroform (µg/L)	Dichlorobromomethane (µg/L)	Dibromochloromethane (µg/L)
1												
2												
3	380	0.13	<10.00	87	56	*	*	*				
4									<0.50	50	10	1
5												
6												
7												
8												
9												
10	410	0.11										
11												
12												
13												
14												
15												
16												
17	413	0.11										
18												
19												
20												
21												
22												
23												
24	300	0.14										
25												
26												
27												
28												
29												
30												
31	395	0.15										
Avg	380	0.13	10	87	56	*	*	*	0.5	50	10	1
Max	413	0.15	10	87	56	*	*	*	0.5	50	10	1
Min	300	0.11	10	87	56	*	*	*	0.5	50	10	1

\*Monthly monitoring of these parameters was not required until after the VWVRA NPDES Permit Renewal in April 2008.

VWRA  
 Facility Effluent Monitoring – River Discharge  
 Monthly  
 2008

April 2008

Date	Total Dissolved Solids (mg/L)	MBAS (mg/L)	Copper (µg/L)	Sodium (mg/L)	Zinc (µg/L)	Total Cyanide (µg/L)	Bis(2-ethylhexyl) phthalate (µg/L)	Dibenzo(a,h) anthracene (µg/L)	Bromoform (µg/L)	Chloroform (µg/L)	Dichlorobromomethane (µg/L)	Dibromochloromethane (µg/L)
1												
2												
3												
4												
5												
6												
7	367											
8		0.08										
9			<10.00	87	61	<5.00	<3.00	<10.00	<0.50	40	7.2	1
10												
11												
12												
13												
14	395											
15												
16												
17												
18												
19												
20												
21	388											
22												
23												
24												
25												
26												
27												
28	358											
29												
30												
Avg	377	0.08	10	87	61	5.0	3.0	10.0	0.5	40	7.2	1
Max	395	0.08	10	87	61	5.0	3.0	10.0	0.5	40	7.2	1
Min	358	0.08	10	87	61	5.0	3.0	10.0	0.5	40	7.2	1

VWVRA  
 Facility Effluent Monitoring – River Discharge  
 Monthly  
 2008

May 2008

Date	Total Dissolved Solids (mg/L)	MBAS (mg/L)	Copper (µg/L)	Sodium (mg/L)	Zinc (µg/L)	Total Cyanide (µg/L)	Bis(2-ethylhexyl) phthalate (µg/L)	Dibenzo(a,h) anthracene (µg/L)	Bromoform (µg/L)	Chloroform (µg/L)	Dichlorobromo-methane (µg/L)	Dibromochloro-methane (µg/L)
1												
2												
3												
4												
5	329	0.20										
6			<10.00	88	58	5.0	<3.00	<10.00	<0.50	50	6.7	0.97
7												
8												
9												
10												
11												
12	353											
13												
14												
15												
16												
17												
18												
19	361											
20												
21												
22												
23												
24												
25												
26	410											
27												
28												
29												
30												
31												
Avg	363	0.20	10.0	88	58	5.0	3.0	10.0	0.5	50	6.7	0.97
Max	410	0.20	10.0	88	58	5.0	3.0	10.0	0.5	50	6.7	0.97
Min	329	0.20	10.0	88	58	5.0	3.0	10.0	0.5	50	6.7	0.97

VWKA  
 Facility Effluent Monitoring – River Discharge  
 Monthly  
 2008

June 2008

Date	Total Dissolved Solids (mg/L)	MBAS (mg/L)	Copper (µg/L)	Sodium (mg/L)	Zinc (µg/L)	Total Cyanide (µg/L)	Bis(2-ethylhexyl) phthalate (µg/L)	Dibenzo(a,h) anthracene (µg/L)	Bromoform (µg/L)	Chloroform (µg/L)	Dichlorobromo-methane (µg/L)	Dibromochloro-methane (µg/L)
1												
2	385	0.09	<10.00	93	54	5.0	<3.00	<10.00	<0.50	60	9.2	1.4
3												
4												
5												
6												
7												
8												
9	391											
10												
11												
12												
13												
14												
15												
16	382											
17												
18												
19												
20												
21												
22												
23	393											
24												
25												
26												
27												
28												
29												
30	382											
Avg	387	0.09	10.0	93	54	5.0	3.0	10.0	0.5	60	9.2	1.4
Max	393	0.09	10.0	93	54	5.0	3.0	10.0	0.5	60	9.2	1.4
Min	382	0.09	10.0	93	54	5.0	3.0	10.0	0.5	60	9.2	1.4



VWVKA  
 Facility Effluent Monitoring – River Discharge  
 Monthly  
 2008

July 2008

Date	Total Dissolved Solids (mg/L)	MBAS (mg/L)	Copper (µg/L)	Sodium (mg/L)	Zinc (µg/L)	Total Cyanide (µg/L)	Bis(2-ethylhexyl) phthalate (µg/L)	Dibenzo(a,h) anthracene (µg/L)	Bromoform (µg/L)	Chloroform (µg/L)	Dichlorobromo-methane (µg/L)	Dibromochloro-methane (µg/L)
1												
2												
3												
4												
5												
6												
7	381	0.13	<10.00	85	43	6.0	<3.00	<10.00	<0.50	36	11	1.8
8												
9												
10												
11												
12												
13												
14												
15	372					<5.00						
16												
17												
18												
19												
20												
21	365											
22												
23												
24												
25												
26												
27												
28	376											
29												
30												
31												
Avg	374	0.13	10.0	85	43	5.5	3.0	10.0	0.5	36	11	1.8
Max	381	0.13	10.0	85	43	6.0	3.0	10.0	0.5	36	11	1.8
Min	365	0.13	10.0	85	43	5.0	3.0	10.0	0.5	36	11	1.8

VWVKA  
 Facility Effluent Monitoring – River Discharge  
 Monthly  
 2008

**August 2008**

Date	Total Dissolved Solids (mg/L)	MBAS (mg/L)	Copper (µg/L)	Sodium (mg/L)	Zinc (µg/L)	Total Cyanide (µg/L)	Bis(2-ethylhexyl) phthalate (µg/L)	Dibenzo(a,h) anthracene (µg/L)	Bromoform (µg/L)	Chloroform (µg/L)	Dichlorobromo-methane (µg/L)	Dibromochloro-methane (µg/L)
1												
2												
3												
4	397	0.14										
5			<10.00	82	54	5.0	<3.00	<10.00	<0.50	58	11	1.8
6												
7												
8												
9												
10												
11	380											
12												
13												
14												
15												
16												
17												
18	456											
19												
20												
21												
22												
23												
24												
25	365											
26												
27												
28												
29												
30												
31												
Avg	400	0.14	10.0	82	54	5.0	3.0	10.0	0.5	58	11	1.8
Max	456	0.14	10.0	82	54	5.0	3.0	10.0	0.5	58	11	1.8
Min	365	0.14	10.0	82	54	5.0	3.0	10.0	0.5	58	11	1.8

VWVKA  
 Facility Effluent Monitoring – River Discharge  
 Monthly  
 2008

September 2008

Date	Total Dissolved Solids (mg/L)	MBAS (mg/L)	Copper (µg/L)	Sodium (mg/L)	Zinc (µg/L)	Total Cyanide (µg/L)	Bis(2-ethylhexyl) phthalate (µg/L)	Dibenzo(a,h) anthracene (µg/L)	Bromoform (µg/L)	Chloroform (µg/L)	Dichlorobromo-methane (µg/L)	Dibromochloro-methane (µg/L)
1	385											
2												
3												
4												
5												
6												
7												
8	378	0.13										
9			<10.00	95	48	6.0	<3.00	<10.00	<0.50	59	10	1.6
10												
11												
12												
13												
14												
15	203											
16												
17												
18												
19												
20												
21												
22	377											
23												
24												
25												
26												
27												
28												
29	404											
30												
Avg	349	0.13	10.0	95	48	6.0	3.0	10.0	0.5	59	10	1.6
Max	404	0.13	10.0	95	48	6.0	3.0	10.0	0.5	59	10	1.6
Min	203	0.13	10.0	95	48	6.0	3.0	10.0	0.5	59	10	1.6

VWVKA  
 Facility Effluent Monitoring – River Discharge  
 Monthly  
 2008

October 2008

Date	Total Dissolved Solids (mg/L)	MBAS (mg/L)	Copper (µg/L)	Sodium (mg/L)	Zinc (µg/L)	Total Cyanide (µg/L)	Bis(2-ethylhexyl) phthalate (µg/L)	Dibenzo(a,h) anthracene (µg/L)	Bromoform (µg/L)	Chloroform (µg/L)	Dichlorobromo-methane (µg/L)	Dibromochloro-methane (µg/L)
1												
2												
3												
4												
5												
6												
7	392											
8												
9												
10												
11												
12												
13	381	0.15	<10.00	93	50	6.0	<3.00	<10.00	<0.50	48	9.7	1.4
14												
15												
16												
17												
18												
19												
20	418											
21												
22												
23												
24												
25												
26												
27	354											
28												
29												
30												
31												
Avg	386	0.15	10.0	93	50	6.0	3.0	10.0	0.5	48	9.7	1.4
Max	418	0.15	10.0	93	50	6.0	3.0	10.0	0.5	48	9.7	1.4
Min	354	0.15	10.0	93	50	6.0	3.0	10.0	0.5	48	9.7	1.4

V V W R A  
 Facility Effluent Monitoring – River Discharge  
 Monthly  
 2008

**November 2008**

Date	Total Dissolved Solids (mg/L)	MBAS (mg/L)	Copper (µg/L)	Sodium (mg/L)	Zinc (µg/L)	Total Cyanide (µg/L)	Bis(2-ethylhexyl) phthalate (µg/L)	Dibenzo(a,h) anthracene (µg/L)	Bromoform (µg/L)	Chloroform (µg/L)	Dichlorobromo-methane (µg/L)	Dibromochloro-methane (µg/L)
1												
2												
3	385	0.10	2.0	90	74	<5.00	<3.00	<0.05	<0.50	44	6.6	0.89
4												
5												
6												
7												
8												
9												
10	314											
11												
12												
13												
14												
15												
16												
17	402											
18												
19												
20												
21												
22												
23												
24	242											
25												
26												
27												
28												
29												
30												
Avg	336	0.10	2.0	90	74	5.0	3.0	0.1	0.5	44	6.6	0.89
Max	402	0.10	2.0	90	74	5.0	3.0	0.1	0.5	44	6.6	0.89
Min	242	0.10	2.0	90	74	5.0	3.0	0.1	0.5	44	6.6	0.89

VWVKA  
 Facility Effluent Monitoring – River Discharge  
 Monthly  
 2008

December 2008

Date	Total Dissolved Solids (mg/L)	MBAS (mg/L)	Copper (µg/L)	Sodium (mg/L)	Zinc (µg/L)	Total Cyanide (µg/L)	Bis(2-ethylhexyl) phthalate (µg/L)	Dibenzo(a,h) anthracene (µg/L)	Bromoform (µg/L)	Chloroform (µg/L)	Dichlorobromomethane (µg/L)	Dibromochloromethane (µg/L)
1	382											
2												
3												
4												
5												
6												
7												
8	381	0.17	<10.00	91	58	<5.00	<3.30	<0.05	<0.50	49	7.8	1.5
9												
10												
11												
12												
13												
14												
15	419											
16												
17												
18												
19												
20												
21												
22	382											
23												
24												
25												
26												
27												
28												
29	439											
30												
31												
Avg	401	0.17	10.0	91	58	5.0	3.3	0.1	0.5	49	7.8	1.5
Max	439	0.17	10.0	91	58	5.0	3.3	0.1	0.5	49	7.8	1.5
Min	381	0.17	10.0	91	58	5.0	3.3	0.1	0.5	49	7.8	1.5

VWRA  
 Facility Effluent Monitoring – River Discharge  
 Quarterly  
 2008

Sample Date	Boron (mg/L)	Total Hardness (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Sulfate (mg/L)	Oil and Grease (mg/L)
January 07, 2008	*	*	76	*	52	<2.6
April 09, 2008	270	62	80	0.5	54	< 2.5
July 07, 2008	250	70	72	0.3	58	<2.6
October 13, 2008	260	63	66	1.8	49	<2.6

\*Quarterly monitoring of these parameters was not required until after the VWRA NPDES Permit Renewal in April 2008.

VWRA  
 Facility Effluent Monitoring - River Discharge  
 Annual  
 2008

**July, 2008**

Sample Date: 07/08/2008

Parameter	Units	Result	EPA Method
<u>Purgable Organics</u>			
Volatile Organic Compounds	(µg/L)	ND	EPA 624
All results Non-Detectable with the exception of:			
Chloroform	(µg/L)	36	
Dibromochloromethane	(µg/L)	1.8	
Dichlorobromomethane	(µg/L)	11	
<u>Base Neutral Extractable</u>			
Semivolatile Organic Cmpds	(µg/L)	ND	EPA 625
All results were Non-Detectable			
<u>Acid Extractable Organics</u>			
Phenol Group	(µg/L)	ND	EPA 625
<u>Heavy Metals</u>			
Metals and Metalloids	(µg/L)	ND	EPA 200.8
All results Non-Detectable with the exception of:			
Boron	(µg/L)	250	
Vanadium	(µg/L)	15	
Zinc	(µg/L)	43	
<u>Methyl t-Butyl Ether</u>	(µg/L)	ND	EPA 624
<u>2,3,7,8-TCDD (Dioxin Scan)</u>	(µg/L)	ND	EPA 625
<u>Asbestos Fibers</u>	(MFL)	ND	EPA 600 R 94 134, EPA 100.2
<u>Fecal Coliform</u>	(MPN/100 mL)	ND	SM 9221-E

Samples analyzed on 07/03/08, 07/08/08, 07/15/08, 07/21/08, 07/29/08.





**E.S.BABCOCK & Sons, Inc.**

Environmental Laboratories *est 1906*

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

Analytical Report: Page 13 of 21  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 29-Jul-2008

**Work Order Number: A8G0684**

Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

**A8G0684-06**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
#1687 Final Eff. To Mojave River Grab	Liquid	07/08/08 05:30	07/08/08 13:40

<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>Cations</b>							
Total Hardness	70	3.0	mg/L	SM 3120B	07/09/08 16:57	lmt	
Calcium	17	1.0	mg/L	EPA 200.7	07/09/08 16:57	lmt	
Magnesium	6.3	1.0	mg/L	EPA 200.7	07/09/08 16:57	lmt	
Sodium	85	1.0	mg/L	EPA 200.7	07/09/08 16:57	lmt	
Potassium	10	1.0	mg/L	EPA 200.7	07/09/08 16:57	lmt	
<b>Anions</b>							
Chloride	72	1.0	mg/L	EPA 300.0	07/09/08 00:03	JC	
Sulfate	58	0.50	mg/L	EPA 300.0	07/09/08 00:03	JC	
Nitrate as N	8.2	0.20	mg/L	EPA 300.0	07/09/08 00:03	JC	
Fluoride	0.3	0.1	mg/L	SM 4500F C	07/18/08 16:00	hga	
<b>Aggregate Organic Compounds</b>							
Oil & Grease (HEM)	ND	2.6	mg/L	EPA 1664A	07/25/08 13:45	rnc	
<b>General Inorganics</b>							
Cyanide	0.006	0.005	mg/L	SM 4500CN E	07/15/08 13:53	slf	
<b>Nutrients</b>							
Nitrite as N	ND	0.10	mg/L	SM 4500NO2 B	07/09/08 16:15	adb	
Ammonia-Nitrogen	ND	0.10	mg/L	SM4500NH3H	07/15/08 15:15	mds	
Kjeldahl Nitrogen	0.78	0.10	mg/L	EPA 351.2	07/15/08 19:54	slf	
Ortho Phosphate Phosphorus	0.13	0.050	mg/L	SM 4500P E	07/09/08 18:00	mds	
<b>Metals and Metalloids</b>							
Antimony	ND	10	ug/L	EPA 200.8	07/09/08 16:49	ap	
Arsenic	ND	5.0	ug/L	EPA 200.8	07/09/08 16:49	ap	
Barium	ND	20	ug/L	EPA 200.8	07/09/08 16:49	ap	
Beryllium	ND	10	ug/L	EPA 200.8	07/09/08 16:49	ap	
Boron	250	100	ug/L	EPA 200.7	07/09/08 16:57	lmt	
Cadmium	ND	2.0	ug/L	EPA 200.8	07/09/08 16:49	ap	

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CA ELAP no. 1156  
EPA no. CA00102



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Environmental Laboratories est.1906

Client Name: Victor Valley Reclamation Authority
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Analytical Report: Page 14 of 21
Project Name: VVWRA-Lab
Project Number: [none]

Work Order Number: A8G0684

Report Date: 29-Jul-2008

Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

A8G0684-06

Sample Description #1687 Final Eff. To Mojave River Grab
Matrix Liquid
Sampled Date/Time 07/08/08 05:30
Received Date/Time 07/08/08 13:40

Table with 8 columns: Analyte(s), Result, RDL, Units, Method, Analysis Date, Analyst, Flag. Rows include Metals and Metalloids (Total Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc) and Volatile Organic Compounds by EPA 524.2 (Total Trihalomethanes, Bromodichloromethane, Bromoform, Chloroform, Dibromochloromethane, and various surrogates).

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Analytical Report: Page 15 of 21
Project Name: VVWRA-Lab
Project Number: [none]

Work Order Number: A8G0684

Report Date: 29-Jul-2008

Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

A8G0684-06

Sample Description #1687 Final Eff. To Mojave River Grab
Matrix Liquid
Sampled Date/Time 07/08/08 05:30
Received Date/Time 07/08/08 13:40

Table with 8 columns: Analyte(s), Result, RDL, Units, Method, Analysis Date, Analyst, Flag. Lists various chemical compounds and their detection results.

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Analytical Report: Page 16 of 21  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 29-Jul-2008

**Work Order Number: A8G0684**

Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

**A8G0684-06**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
#1687 Final Eff. To Mojave River Grab	Liquid	07/08/08 05:30	07/08/08 13:40

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
<b>Volatile Organic Compounds by EPA 624</b>							
Toluene	ND	0.50	ug/L	EPA 624	07/09/08 22:08	eec	
trans-1,2-Dichloroethene	ND	0.50	ug/L	EPA 624	07/09/08 22:08	eec	
trans-1,3-Dichloropropene	ND	0.50	ug/L	EPA 624	07/09/08 22:08	eec	
Trichloroethene	ND	0.50	ug/L	EPA 624	07/09/08 22:08	eec	
Trichlorofluoromethane	ND	5.0	ug/L	EPA 624	07/09/08 22:08	eec	
Vinyl Chloride	ND	0.50	ug/L	EPA 624	07/09/08 22:08	eec	
Xylenes (m+p) (EPA 8260B)	ND	0.50	ug/L	EPA 624	07/09/08 22:08	eec	
Xylenes (ortho) (EPA 8260B)	ND	0.50	ug/L	EPA 624	07/09/08 22:08	eec	
Surrogate: 1,2-Dichloroethane-d4	102	% 80-120		EPA 624	07/09/08 22:08	eec	
Surrogate: Bromofluorobenzene	100	% 80-141		EPA 624	07/09/08 22:08	eec	
Surrogate: Toluene-d8	98.0	% 80-120		EPA 624	07/09/08 22:08	eec	
<b>Semivolatile Organic Compounds by EPA 625</b>							
2,3,7,8-TCDD (scan)	ND	0.050	ug/L	EPA 625	07/16/08 00:55	DF	
1,2,4-Trichlorobenzene	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
1,2-Diphenylhydrazine (EPA 8270)	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
2,4,6-Trichlorophenol	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
2,4-Dichlorophenol	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
2,4-Dimethylphenol	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
2,4-Dinitrophenol	ND	50	ug/L	EPA 625	07/16/08 00:55	DF	
2,4-Dinitrotoluene	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
2,6-Dinitrotoluene	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
2-Chloronaphthalene	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
2-Chlorophenol	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
2-Methyl-4,6-Dinitrophenol	ND	50	ug/L	EPA 625	07/16/08 00:55	DF	
2-Nitrophenol	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
3,3'-Dichlorobenzidine	ND	20	ug/L	EPA 625	07/16/08 00:55	DF	
4,4'-DDD	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
4,4'-DDE	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	

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Environmental Laboratories est 1906

Client Name: Victor Valley Reclamation Authority
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Analytical Report: Page 17 of 21
Project Name: VVWRA-Lab
Project Number: [none]

Report Date: 29-Jul-2008

Work Order Number: A8G0684

Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

A8G0684-06

Sample Description #1687 Final Eff. To Mojave River Grab
Matrix Liquid
Sampled Date/Time 07/08/08 05:30
Received Date/Time 07/08/08 13:40

Table with 8 columns: Analyte(s), Result, RDL, Units, Method, Analysis Date, Analyst, Flag. Lists various organic compounds and their detection results.

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Address: 15776 Main St. Suite 3  
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Analytical Report: Page 18 of 21  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 29-Jul-2008

**Work Order Number: A8G0684**

Received on Ice (Y/N): Yes Temp: 6 °C

### Laboratory Reference Number

**A8G0684-06**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
#1687 Final Eff. To Mojave River Grab	Liquid	07/08/08 05:30	07/08/08 13:40

<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>
Semivolatile Organic Compounds by EPA 625							
Chrysene	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
d-BHC	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
Di-n-butylphthalate	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
Di-n-octylphthalate	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
Dibenzo(a,h)anthracene	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
Dieldrin	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
Diethyl phthalate	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
Dimethyl phthalate	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
Endosulfan I	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
Endosulfan II	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
Endosulfan Sulfate	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
Endrin	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
Fluoranthene	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
Fluorene	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
Heptachlor	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
Heptachlor Epoxide	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
Hexachlorobenzene	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
Hexachlorobutadiene	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
Hexachlorocyclopentadiene	ND	50	ug/L	EPA 625	07/16/08 00:55	DF	
Hexachloroethane	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
Isophorone	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
n-Nitrosodi-n-propylamine	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
N-Nitrosodimethylamine	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
N-Nitrosodiphenylamine	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
Naphthalene	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
Nitrobenzene	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
Pentachlorophenol	ND	50	ug/L	EPA 625	07/16/08 00:55	DF	
Phenanthrene	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
Phenol	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	

**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

NELAP no. 02101CA  
CA ELAP no. 1156  
EPA no. CA00102



**E.S.BABCOCK & Sons, Inc.**  
 Environmental Laboratories *est 1906*

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

Analytical Report: Page 19 of 21  
 Project Name: VVWRA-Lab  
 Project Number: [none]

Report Date: 29-Jul-2008

**Work Order Number: A8G0684**

Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

**A8G0684-06**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
#1687 Final Eff. To Mojave River Grab	Liquid	07/08/08 05:30	07/08/08 13:40

<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>
Semivolatile Organic Compounds by EPA 625							
Pyrene	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
Toxaphene (screen)	ND	50	ug/L	EPA 625	07/16/08 00:55	DF	
y-BHC	ND	10	ug/L	EPA 625	07/16/08 00:55	DF	
<i>Surrogate: 2,4,6-Tribromophenol</i>	83.0	% 40-109		EPA 625	07/16/08 00:55	DF	
<i>Surrogate: 2-Fluorobiphenyl</i>	64.2	% 42-110		EPA 625	07/16/08 00:55	DF	
<i>Surrogate: 2-Fluorophenol</i>	41.7	% 16-110		EPA 625	07/16/08 00:55	DF	
<i>Surrogate: 4-Terphenyl-d14</i>	84.5	% 41-112		EPA 625	07/16/08 00:55	DF	
<i>Surrogate: Nitrobenzene-d5</i>	63.7	% 44-110		EPA 625	07/16/08 00:55	DF	
<i>Surrogate: Phenol-d6</i>	29.9	% 10-110		EPA 625	07/16/08 00:55	DF	
Haloacetic Acid by Standard Methods 6251B							
HAA5	69	5.0	ug/L	SM 6251B	07/10/08 08:13	cya	
Monochloroacetic Acid	ND	2.0	ug/L	SM 6251B	07/10/08 08:13	cya	
Dichloroacetic Acid	21	1.0	ug/L	SM 6251B	07/10/08 08:13	cya	
Trichloroacetic Acid	47	1.0	ug/L	SM 6251B	07/10/08 08:13	cya	
Monobromoacetic Acid	ND	1.0	ug/L	SM 6251B	07/10/08 08:13	cya	
Dibromoacetic Acid	ND	1.0	ug/L	SM 6251B	07/10/08 08:13	cya	
<i>Surrogate: 2,3-Dibromopropionic acid</i>	95.0	% 70-130		SM 6251B	07/10/08 08:13	cya	

*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

NELAP no. 02101CA  
 CA ELAP no. 1156  
 EPA no. CA00102



**E.S.BABCOCK&Sons,Inc.**  
 Environmental Laboratories *est 1906*

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

Analytical Report: Page 21 of 21  
 Project Name: VVWRA-Lab  
 Project Number: [none]

Report Date: 29-Jul-2008

**Work Order Number: A8G0684**

Received on Ice (Y/N): Yes Temp: 6 °C

**Notes and Definitions**

- N\_pScr Sample screened for interference and preserved upon receipt to the laboratory.
- N\_RLm Due to sample matrix, the reporting limit has been raised.
- NCEVE In an acidified sample, this compound degrades and is not detectable as 2-Chloroethylvinyl ether. Its degradation product is 2-Chloroethanol, which is not an analyte of this method.
- 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

\*/ (Non-NELAP): 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.

- Lorenzo Rodriguez  
Project Manager
- Allison Mackenzie  
General Manager
- Lawrence J. Chrystal  
Laboratory Director

cc:

ESB\_Short\_Report



DATE: July 16, 2008  
CLIENT: EDWARD S. BABCOCK & SONS, INC.  
P.O. BOX 432  
RIVERSIDE, CA 92502-0432  
ATTENTION: Humaira Saleem  
REFERENCE: A8G0784  
REPORT NO: 122419  
SUBJECT: ANALYSIS OF WATER SAMPLE FOR ASBESTOS BY TEM  
ACCREDITED: California Department of Health Services (ELAP-1119)

The water was UV-ozone treated to remove any microbial contamination as prescribed by the method since the sample arrived after the 48-hour holding time.

The date and times of collection, receipt, ozonation, filtration, and analysis are as follows:

SAMPLE NO: A8G0784-01  
COLLECTED: 7/8/08 at 0530 by Roy Dagnino  
RECEIVED: 7/11/08 at 1045  
OZONATED: 7/12/08 at 1000-1300  
FILTERED: 7/12/08 at 1325  
ANALYZED: 7/16/08

The sample was analyzed for fibers  $>10 \mu\text{m}$  in length to conform with the drinking water document, EPA 600 94 134, 100.2. This regulation calls for an MCL (maximum contaminant level) of 7 MFL and an analytical sensitivity level of 0.2 MFL.

No asbestos structures  $>10\mu\text{m}$  in length were detected. The analytical sensitivity of 0.2 MFL was reached.

The results of the analysis and the detection limit are summarized on the following pages.

Respectfully submitted,  
EMS LABORATORIES, INC.

  
B. M. Kolk  
Laboratory Director

BMK/ah

NOTE: The results of the analysis are based upon the samples submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.

This report, from a NIST laboratory through NVLAP, must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.

Any deviation or exclusion from the test method is noted in this cover letter.

Unless otherwise noted in this cover letter, the samples were received properly packaged, clearly identified and intact.

122419

SUBCONTRACT ORDER

E.S. Babcock & Sons, Inc.

A8G0784

SENDING LABORATORY:

E.S. Babcock & Sons, Inc.  
P. O. Box 432  
Riverside, CA 92502-0432  
Phone: (951) 653-3351  
Fax: (951) 653-1662  
Project Manager: Lorenzo (Z) Rodriguez

RECEIVING LABORATORY:

EMS Laboratories  
117 W. Bellevue Drive  
Pasadena, CA 91105  
Phone : (626) 568-4065  
Fax: (626) 796-5282

Client: Victor Valley Reclamation Authority  
Sampler: Roy Dagnino

*No State Form*

Analysis	Due	Expires Regulatory Days Past Date Sampled	Laboratory ID	Comments
Sample ID: A8G0784-01	Liquid	Sampled: 07/08/08 05:30	#1687 Final Effluent to Mojave River	
Asbestos	07/17/08 17:00	01/04/09 05:30		
Containers Supplied: Half gal Poly (A)				

All Containers Intact:

Yes  No

Samples Preserved Properly:  Yes  No

Samples Received at  oC

Sample Lables / COC Agree:

Yes  No

Custody Seals Present:  Yes  No

An acknowledgement of sample receipt is requested. Please reply to slozon@babcocklabs.com or Fax to 951-653-3351. Thank You.

*Sharon Lopez*  
Released By Date 7-10-08

*[Signature]*  
Received By Date 7-11-08 10:45

Released By Date Received By Date



**Analysis of Water by Transmission Electron Microscopy  
(EPA-600 R 94 134) EPA 100.2**

<b>EMS No.</b>	122419	<b>Client</b>	E.S. Babcock & Sons
<b>Sample No.</b>	A8G0784-01	<b>Date Analyzed</b>	7/16/2008

Fibers > 10 $\mu$ m in length (chrysotile)	<u>BDL*</u>	MFL
Mass (chrysotile)	<u>0</u>	ug/L
More/Less than 5 Fibers in Sample (chrysotile)	<u>LESS</u>	
Poisson 95% Confidence Interval	<u>0 to 0.7</u>	MFL
Detection Limit	<u>0.2</u>	MFL

\* BDL : Below Detection Limit; MFL: Million Fibers per Liter

**Particle Size Distribution ( Chrysotile )**

Particle Length - Microns							
0 - 0.49	0.50 - 0.99	1.00 - 1.49	1.50 - 1.99	2.00 - 2.49	2.5 - 4.99	5.00 - 9.99	10 & UP
<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Particle Width - Microns							
0 - .04	.05 - .09	.1 - .14	.15 - .19	.2 - .24	.25 - .49	.50 - .99	1 & UP
<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Aspect Ratio L/W							
0 - 9.9	10 - 19.9	20 - 29.9	30 - 39.9	40 - 49.9	50 - 99	100 - 199	200 & UP
<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

TEM 7B (1994)

# TEM ASBESTOS ANALYSIS

Client ESB EMS Lab No. 122419  
 Sample No. ABG-0784-01 Page \_\_\_\_\_ of \_\_\_\_\_

RECEIVING

**TYPE OF SAMPLE**

Air  Water   
 Soil  Bulk   
 Other \_\_\_\_\_

**METHOD OF ANALYSIS**

EPA 600/4-83-043  ISO

**LEVEL OF ANALYSIS**

Chrysotile CD, CDQ  
 Amphibole AD, ADQ

**ASPECT RATIO**

3:1  5:1

EPA/600/R-94/134 100.1  100.2

**LENGTHS**

All Sizes (EPA)   
 (µm) ≥ 0.5   
 ≥ 1.0   
 ≥ 5.0   
 ≥ 10.0   
 PCM Range\*   
 \* (≥ 0.25 µm width  
 ≥ 5.0 µm length)

**FILTER TYPE / AREA (mm±)**

MCE  385   
 PC  314   
 MCN  1017   
 Other \_\_\_\_\_

**PORE SIZE**

0.45 µm  0.8 µm   
 0.1 µm  0.22 µm   
 Other 0.4

G.O. Area (mm²) 00 093  
 No. of G.O. to Analyze 10

PREP

DIRECT PREP   
 INDIRECT PREP

07-12-08  
 OS: 1000 | 00  
 SON: 100 | 15  
 FILT: 125  
 Volume \_\_\_\_\_ liters  
 Working Volume 60 ml  
 Weight \_\_\_\_\_ grams  
 Ashed Area \_\_\_\_\_ %  
 Prepared By JAP  
 Date 07-14-08

ANALYSIS

**MICROSCOPE**

H600A - Serial No. 542-36-01  
 H600B - Serial No. 542-05-06  
 H600C - Serial No. 542-24-03

**ENERGY DISPERSIVE X-RAY SYSTEM**

KeveX - Model No. 3200-0106-0365   
 KeveX - Model No. 3600-0206-0146   
 Quantum System

Grid Address: A  
 Screen Magnification: 9400 X  
 Camera Constant: 30  
 Accelerating Voltage: 100KV  
 Beam Current: 10 µA  
 K-Factor: \_\_\_\_\_  
 Analyst [Signature] Date 7-15-08

Grid Opening	Structure Number	Structure	Dimensions (mm)		Fiber Classification												EDS Analysis					Comments		
			Width	Length	NAM	TM	CM	CD	CQ	CMQ	CDQ	UF	AD	AX	ADX	AQ	ADQ	AZQ	AZZ	Na	Mg		Si	Ca
<u>33</u>	<u>151</u>																							
<u>41</u>	<u>152</u>																							
<u>42</u>	<u>153</u>																							
<u>43</u>	<u>154</u>																							

**OBSERVATIONS:**

Clean  Very Light  Light  Moderate  Heavy  Very Heavy   
 Debris  Very Light  Light  Moderate  Heavy  Very Heavy   
 Gypsum  Very Light  Light  Moderate  Heavy  Very Heavy   
 Condition of the Grid:  Good  Scrappy  Undissolved Filter  Folded

TEM - 1A (1-06)

Page 4 of 9





**Analysis of Water by Transmission Electron Microscopy  
(EPA-600/4-83-043)**

<b>EMS No.</b>	122419	<b>Date Analyzed</b>	7/16/2008
<b>Client</b>	E.S. Babcock & Sons		
<b>Sample No.</b>	EMS BLANK		
Fibers (chrysotile)	<u>ND</u>		MFL
> 5 Micron length (chrysotile)	<u>ND</u>		MFL
Mass (chrysotile)	<u>0</u>		ug/L
More/Less than 5 Fibers in Sample (chrysotile)	<u>LESS</u>		
Sensitivity Level	<u>0</u>		MFL

**Particle Size Distribution ( Chrysotile )**

<b>Particle Length - Microns</b>					
0 - 0.49	0.50 - 0.99	1.00 - 1.49	1.50 - 1.99	2.00 - 2.49	2.5 & UP
<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<b>Particle Width - Microns</b>					
0 - .04	.05 - .09	.1 - .14	.15 - .19	.2 - .24	.25 & UP
<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<b>Aspect Ratio L/W</b>					
0 - 9.9	10 - 19.9	20 - 29.9	30 - 39.9	40 - 49.9	50 & UP
<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>



# TEM ASBESTOS ANALYSIS

Client Fms blank  
 Sample No. 7-12-08

EMS Lab No. 122419  
 Page      of     

RECEIVING

**TYPE OF SAMPLE**  
 Air  Water   
 Soil  Bulk   
 Other     

**METHOD OF ANALYSIS**  
 EPA 600/4-83-043  ISO

**LEVEL OF ANALYSIS**  
 Chrysotile CD-CDC  
 Amphibole ADx-ADg

**ASPECT RATIO**  
 3:1  5:1

EPA/600/R-94/134    100.1     100.2

**LENGTHS**  
 All Sizes (EPA)   
 ( $\mu\text{m}$ )  $\geq 0.5$    
 $\geq 1.0$    
 $\geq 5.0$    
 $\geq 10.0$    
 PCM Range\*   
 \* $\geq 0.25 \mu\text{m}$  width  
 $\geq 5.0 \mu\text{m}$  length)

**FILTER TYPE / AREA (mm $\pm$ )**  
 MCE  385   
 PC  314   
 MCN  1017   
 Other     

**PORE SIZE**  
 0.45  $\mu\text{m}$   0.8  $\mu\text{m}$    
 0.1  $\mu\text{m}$   0.22  $\mu\text{m}$    
 Other     

G.O. Area (mm $^2$ ) 0.93  
 No. of G.O. to Analyze 20

PREP

**DIRECT PREP**   
**INDIRECT PREP**

Volume      liters  
 Working Volume 500 ml  
 Weight      grams  
 Ashed Area      %

Prepared By JAD  
 Date 7-14-08

ANALYSIS

**MICROSCOPE**  
 H600A - Serial No. 542-86-01   
 H600B - Serial No. 542-05-06   
 H600C - Serial No. 542-24-03

Grid Address A  
 Screen Magnification 19200 X  
 Camera Constant 28.2  
 Accelerating Voltage 100 KV  
 Beam Current 10  $\mu\text{A}$   
 K-Factor 1.4

Analyst Randle Date 7-16-08

Grid Opening	Structure Number	Structure	Dimensions (mm)		Fiber Classification												EDS Analysis					Comments				
			Width	Length	NAM	TM	CM	CD	CQ	CMQ	CDQ	UF	AD	AX	ADX	AQ	ADQ	AZQ	AZZ	Na	Mg		Si	Ca	Fe	
E2-6		N5D																								
F3-1		N5D																								
C3-4		N5D																								
C4-1		N5D																								
G3-6		N5D																								
H4-1		N5D																								
I3-4		N5D																								
E3-3		N5D																								
F4-1		N5D																								
F4-2		N5D																								

**OBSERVATIONS:**

Clean     Debris:     Gypsum:     Condition of the Grid:

Very Light     Very Light     Good

Light     Light     Scrappy

Moderate     Moderate     Undissolved Filter

Heavy     Heavy     Folded

Very Heavy     Very Heavy

TEM - 1A (8-01)

Page 8 of 9

# TEM ASBESTOS ANALYSIS

Client Ems blank  
 Sample No. 7-12-08

EMS Lab No. 122419  
 Page \_\_\_\_\_ of \_\_\_\_\_

ANALYSIS

**MICROSCOPE**

- H600A - Serial No. 542-36-01
- H600B - Serial No. 542-05-06
- H600C - Serial No. 542-24-03

**ENERGY DISPERSIVE X-RAY SYSTEM**

- KeveX - Model No. 3200-0106-0365
  - KeveX - Model No. 3600-0206-0146
- Quantum System

Grid Address: A  
 Screen Magnification: 19,200 X  
 Camera Constant: 283  
 Accelerating Voltage: 100KV  
 Beam Current: 10  $\mu$ A  
 K-Factor: 1.4  
 Analyst Radie

Date 7/16/08

Fid ening	Structure Number	Structure	Dimensions (mm)		Fiber Classification													EDS Analysis					Comments			
			Width	Length	NAM	TM	CM	CD	CQ	CMQ	CDQ	UF	AD	AX	ADX	AQ	ADQ	AZQ	AZZ	Na	Mg	Si		Ca	Fe	
-1		N/D																								
2-6		N/D																								
3-0		N/D																								
3-4		N/D																								
4-1		N/D																								
13-1		N/D																								
4-1		N/D																								
4-0		N/D																								
5-1		N/D																								
3-4		N/D																								

**OBSERVATIONS:**

- Clean
- Debris:
- Gypsum:
- Very Light
- Very Light
- Light
- Light
- Moderate
- Moderate
- Heavy
- Heavy
- Very Heavy
- Very Heavy



# LABORATORY CHAIN OF CUSTODY AND ANALYSIS REQUEST RECORD

## Victor Valley Wastewater Reclamation Authority

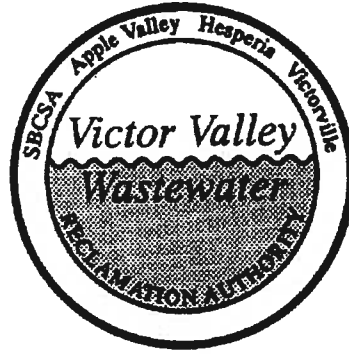
A Joint Powers Authority and Public Agency of the State of California

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.vvwwra.com](http://www.vvwwra.com) E-mail: [gloutier@vvwwra.com](mailto:gloutier@vvwwra.com)

Project Name: Weekly/Monthly/Quarterly/Annual NPDES Samples - Routine				Sample Type		Laboratory Analyses Requested													Sample Preservation Methods		Sample Matrix								
Project Contact: Gina Cloutier (760) 246-8638 ext. 216						Grab	Composite	MBAS	Ammonia-N	TKN	Nitrite - N	Nitrate - N	Total Cyanide	THMs EPA 524.2	EPA 625 (BNA) w/Dioxin	EPA 624 w/MTBE	Copper and Zinc, dissolved	Chloride, Fluoride, Sulfate				Ortho-Phosphate	Oil and Grease	Haloacetic Acids, <del>Asbestos</del>	# Sample Containers	H <sub>2</sub> SO <sub>4</sub> pH<2	Refrigeration	HNO <sub>3</sub> pH<2	HCL pH < 2
Sampler Name: <u>Roy Dagnino</u>																													
Sampler Signature: <u>Roy Dagnino</u>																													
VVWRA ID #	Sample Location/Description	Sample Date	Sample Time	Grab	Composite	MBAS	Ammonia-N	TKN	Nitrite - N	Nitrate - N	Total Cyanide	THMs EPA 524.2	EPA 625 (BNA) w/Dioxin	EPA 624 w/MTBE	Copper and Zinc, dissolved	Chloride, Fluoride, Sulfate	Ortho-Phosphate	Oil and Grease	Haloacetic Acids, <del>Asbestos</del>	# Sample Containers	H <sub>2</sub> SO <sub>4</sub> pH<2	Refrigeration	HNO <sub>3</sub> pH<2	HCL pH < 2	NaOH pH>12	NH <sub>4</sub> CL	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Sample Matrix	
1681	Raw Influent Composite 7/7-8/08	7/8/08	0524		X	X															1		1						WW
1683	Secondary Effluent to Percolation Ponds Composite 7/7-8/08		0526		X	X															1		1						WW
1684	Final Effluent to Mojave River Composite 7/7-8/08		0530		X	X															1		1						WW
1685	Raw Influent Grab		0525	X			X	X	X	X	X	X	X	X	X				X		12	2	4	1	2	1		2	WW
1686	Secondary Effluent to Percolation Ponds Grab		0528	X			X	X	X	X											2	1	1						WW
1687	Final Effluent to Mojave River Grab		0530	X			X	X	X	X	X	X	X	X	X	X	X	X	X		17	2	5	1	2	1	4	2	WW
1687-d	Final Effluent to Mojave River Grab (Filtered for dissolved Metals)	↓	0530	X											X						1		1						WW
Relinquished By (Sign): <u>Roy Dagnino</u>		Date/Time: 7-8-08		Received By (Sign): <u>Gina Cloutier</u>		Relinquished By (Sign): <u>Gina Cloutier</u>		Date/Time: 7-8-8		Received By (Sign): <u>Juan Mendez</u>		Print: <u>Roy Dagnino</u>		0545		Print: <u>Gina Cloutier</u>		11:45		Print: <u>J. Mendez</u>		Company: <u>VVWRA</u>		Company: <u>VVWRA</u>		Company: <u>D E I</u>			
Relinquished By (Sign): <u>Juan Mendez</u>		Date/Time: 7/8/08		Received By (Sign): <u>Roy Cervantes</u>		Relinquished By (Sign): <u>Roy Cervantes</u>		Date/Time: 7/8/08		Received By (Sign): <u>Elizabeth Mendez</u>		Print: <u>J. Mendez</u>				Print: <u>R. Cervantes</u>		13:40		Print: <u>Elizabeth Mendez</u>		Company: <u>D E I</u>		Company: <u>DAILY EXPRESS</u>		Company: <u>950</u>			
Sample Condition Upon Receipt by Laboratory:												Laboratory Notes																	
Samples Received on Ice? <u>Yes</u> No				Temperature <u>6</u> °C				Metals & Hardness to include: <u>Sr, As, Ba, Be, B, Ca, Cd, Cr, Cr VI, Co, Cu, Fe, K, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Na, U, V, Zn, and Hardness (calc.)</u>				Lab # <u>0890784</u>				JUL 09 2008													



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**VVWRA Laboratory Analysis Report**

**Sampling Site: Final Effluent (Chlorine Contact Basin Effluent) # 1648**

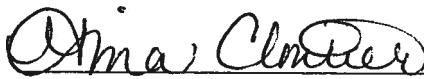
**Collection Method: Grab**

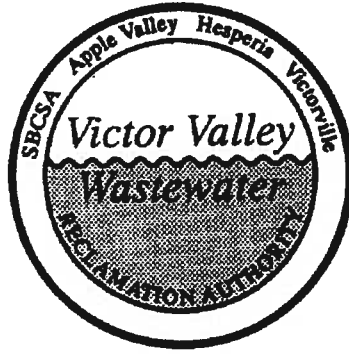
**Sample Collected By: Roy Dagnino**

**Sample Collection Date/Time: 07/03/08 0520**

<b>Constituent</b>	<b>Result</b>	<b>Units</b>	<b>Method</b>	<b>RL</b>	<b>Analyst</b>
Fecal Coliform Bacteria	< 2.0	MPN/100 mL	SM 9221-E	2.0	G. Cloutier

VVWRA has applied for CDPH-ELAP certification for Fecal Coliforms by method SM 9221-E and completed DMRQA-28 with acceptable results. Certification is currently pending, awaiting laboratory inspection by CDPH-ELAP.

  
Gina Cloutier, Laboratory Supervisor



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**VVWRA Laboratory Analysis Report**

**Sampling Site: Final Effluent (Chlorine Contact Basin Effluent) # 1688**


**Collection Method: Grab**

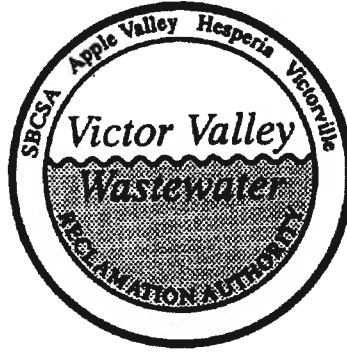
**Sample Collected By: Roy Dagnino**

**Sample Collection Date/Time: 07/08/08 0530**

<b>Constituent</b>	<b>Result</b>	<b>Units</b>	<b>Method</b>	<b>RL</b>	<b>Analyst</b>
Fecal Coliform Bacteria	< 2.0	MPN/100 mL	SM 9221-E	2.0	G. Cloutier

VVWRA has applied for CDPH-ELAP certification for Fecal Coliforms by method SM 9221-E and completed DMRQA-28 with acceptable results. Certification is currently pending, awaiting laboratory inspection by CDPH-ELAP.

  
Gina Cloutier, Laboratory Supervisor



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**VVWRA Laboratory Analysis Report**

**Sampling Site: Final Effluent (Chlorine Contact Basin Effluent) # 1752**

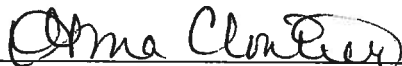
**Collection Method: Grab**

**Sample Collected By: Roy Dagnino**

**Sample Collection Date/Time: 07/15/08 0530**

<b>Constituent</b>	<b>Result</b>	<b>Units</b>	<b>Method</b>	<b>RL</b>	<b>Analyst</b>
Fecal Coliform Bacteria	< 2.0	MPN/100 mL	SM 9221-E	2.0	G. Cloutier

VVWRA has applied for CDPH-ELAP certification for Fecal Coliforms by method SM 9221-E and completed DMRQA-28 with acceptable results. Certification is currently pending, awaiting laboratory inspection by CDPH-ELAP.

  
\_\_\_\_\_  
Gina Cloutier, Laboratory Supervisor



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**VVWRA Laboratory Analysis Report**

**Sampling Site: Final Effluent (Chlorine Contact Basin Effluent) # 1815**


**Collection Method: Grab**

**Sample Collected By: Gina Cloutier**

**Sample Collection Date/Time: 07/21/08 0730**

<b>Constituent</b>	<b>Result</b>	<b>Units</b>	<b>Method</b>	<b>RL</b>	<b>Analyst</b>
Fecal Coliform Bacteria	< 2.0	MPN/100 mL	SM 9221-E	2.0	G. Cloutier

VVWRA has applied for CDPH-ELAP certification for Fecal Coliforms by method SM 9221-E and completed DMRQA-28 with acceptable results. Certification is currently pending, awaiting laboratory inspection by CDPH-ELAP.

  
Gina Cloutier, Laboratory Supervisor



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**VVWRA Laboratory Analysis Report**

**Sampling Site: Final Effluent (Chlorine Contact Basin Effluent) # 1879**


**Collection Method: Grab**

**Sample Collected By: Gina Cloutier**

**Sample Collection Date/Time: 07/29/08 0720**

<b>Constituent</b>	<b>Result</b>	<b>Units</b>	<b>Method</b>	<b>RL</b>	<b>Analyst</b>
Fecal Coliform Bacteria	< 2.0	MPN/100 mL	SM 9221-E	2.0	G. Cloutier

VVWRA has applied for CDPH-ELAP certification for Fecal Coliforms by method SM 9221-E and completed DMRQA-28 with acceptable results. Certification is currently pending, awaiting laboratory inspection by CDPH-ELAP.

  
Gina Cloutier, Laboratory Supervisor



**SECTION 6**

**PERCOLATION POND  
INFLUENT MONITORING**

Percolation Pond Influent Monitoring  
 VVWRA  
 2008  
 Schedule

Parameter	Units	Type of Sample	Frequency
BOD	mg/L	24 Hour Composite	Three/week
MBAS	mg/L	24 Hour Composite	Weekly
Dissolved Oxygen	mg/L	Grab	Weekly
pH	pH Units	Grab	Weekly
Total Dissolved Solids	mg/L	24 Hour Composite	Monthly
Nitrate Nitrogen	mg/L as N	Grab	Monthly
Kjeldahl Nitrogen	mg/L as N	Grab	Monthly
Ammonia Nitrogen	mg/L as N	Grab	Monthly

VWRA  
Percolation Pond Influent Monitoring  
Three/week - Monthly  
2008

JANUARY

Date	3/Week		Weekly		Monthly							
	BOD (mg/L)	MBAS (mg/L)	Dissolved Oxygen (mg/L)	pH (S.U.)	Total Dissolved Solids (mg/L)	Nitrate (mg/L)	TKN (mg/L)	Ammonia (mg/L)				
1	5.0	0.14	2.74	7.1	388	11.0						
2	7.0			6.9								
3	7.2			7.0								
4				6.9								
5				7.0								
6				7.1								
7	8.0	0.16		7.0					437	10.0	0.8	0.6
8			2.33	7.0								
9	18.6			6.9								
10	10.6			7.0								
11				7.0								
12				6.9								
13				7.1								
14		0.17		6.9	478	7.7						
15	9.0		2.49	7.0								
16	11.0			6.9								
17	11.0			6.8								
18				6.9								
19				7.0								
20				7.0								
21	9.0	0.12		7.0					328	8.7		
22			2.27	7.0								
23	10.0			7.0								
24	8.7			6.9								
25				6.8								
26				7.3								
27				7.0								
28		0.19		6.9	511	5.2						
29	8.6		2.75	6.9								
30	11.0			6.9								
31	12.0			6.9								
AVG	9.8	0.16	2.52	7.0	428	8.4	0.8	0.6				
MIN	5.0	0.12	2.27	6.8	328	5.2	0.8	0.6				
MAX	18.6	0.19	2.75	7.3	511	11.0	0.8	0.6				

FEBRUARY

Date	3/Week		Weekly		Monthly							
	BOD (mg/L)	MBAS (mg/L)	Dissolved Oxygen (mg/L)	pH (S.U.)	Total Dissolved Solids (mg/L)	Nitrate (mg/L)	TKN (mg/L)	Ammonia (mg/L)				
1				6.9	483	7.2	2.3	0.38				
2				7.0								
3				7.0								
4	16.0	0.14		6.9								
5			2.37	7.0								
6	19.0			7.0								
7	15.0			6.9								
8				6.9								
9				7.1								
10				7.1								
11	11.0	0.16		6.9					380	6.6		
12	20.0		2.20	7.0								
13	16.0			6.9								
14				6.9								
15				6.9								
16				7.0								
17				7.0								
18	18.0	0.16		7.0	485	7.4						
19	12.0		2.00	7.0								
20	12.0			6.9								
21				6.9								
22				7.0								
23				7.0								
24				7.0								
25	8.0	0.09		7.0	391	8.6						
26	11.0		4.10	7.0								
27	12.0			6.9								
28	10.0			6.9								
29				6.9								
AVG	13.8	0.14	2.67	7.0					435	7.0	2.3	0.38
MIN	8.0	0.09	2.00	6.9					380	5.4	2.3	0.38
MAX	20.0	0.16	4.10	7.1	485	8.6	2.3	0.38				

VWRA  
Percolation Pond Influent Monitoring  
Three/week - Monthly  
2008

MARCH

Date	3/Week		Weekly		Monthly			
	BOD (mg/L)	MBAS (mg/L)	Dissolved Oxygen (mg/L)	pH (S.U.)	Total Dissolved Solids (mg/L)	Nitrate (mg/L)	TKN (mg/L)	Ammonia (mg/L)
1				7.0				
2	8.0			7.0				
3	7.0	0.13		7.0	356	9.6		
4	8.0		2.20	7.0		8.3	1.0	0.25
5	8.0			6.9				
6				6.8				
7				6.9				
8				7.0				
9	14.0			6.9				
10	10.0	0.11		6.9	404	8.1		
11	8.0		2.10	6.9				
12				7.0				
13				7.0				
14				6.9				
15				6.9				
16	6.0			6.9				
17	11.0	0.11		6.9	365	9.7		
18	10.0		2.20	7.0				
19				6.9				
20				6.9				
21				6.9				
22				7.0				
23	11.0			6.9				
24	12.0	0.12		6.9	290	10.0		
25			2.50	6.9				
26	6.0			7.1				
27				7.0				
28				7.0				
29				7.0				
30	6.0			7.0				
31		0.11		6.9	375	10.0		
AVG	8.9	0.12	2.25	6.9	358	9.3	1.0	0.25
MIN	6.0	0.11	2.10	6.8	290	8.1	1.0	0.25
MAX	14.0	0.13	2.50	7.1	404	10.0	1.0	0.25

APRIL

Date	3/Week		Weekly		Monthly			
	BOD (mg/L)	MBAS (mg/L)	Dissolved Oxygen (mg/L)	pH (S.U.)	Total Dissolved Solids (mg/L)	Nitrate (mg/L)	TKN (mg/L)	Ammonia (mg/L)
1	8.0		2.45	6.9				
2	6.0			6.8				
3				7.1				
4				6.9				
5				7.0				
6	13.0			7.0				
7	15.0			6.9	340			
8	12.0	0.11	2.30	6.9				
9	11.0			6.9		8.4	1.6	0.14
10				6.8				
11				6.9				
12				7.0				
13	11.0			7.0				
14	11.0	0.12		7.0	398			
15	10.0		2.51	6.9		6.8	1.4	0.14
16	10.0			7.0				
17				6.8				
18				6.9				
19	12.0			7.0				
20	10.0			7.0				
21		0.19		7.0	337	5.7	1.8	0.24
22	9.0		2.30	6.8				
23	8.0			7.0				
24				6.9				
25				7.1				
26				7.1				
27	13.0			7.1				
28	11.0	0.12		7.1	345			
29	12.0		2.39	7.1		5.5	1.7	0.22
30				7.0				
AVG	10.4	0.14	2.39	7.0	355	6.6	1.6	0.19
MIN	5.0	0.11	2.30	6.8	337	5.5	1.4	0.14
MAX	15.0	0.19	2.51	7.1	397	8.4	1.8	0.24

VWRA  
Percolation Pond Influent Monitoring  
Three/week - Monthly  
2008

MAY

Date	3/Week		Weekly		Monthly			
	BOD (mg/L)	MBAS (mg/L)	Dissolved Oxygen (mg/L)	pH (S.U.)	Total Dissolved Solids (mg/L)	Nitrate (mg/L)	TKN (mg/L)	Ammonia (mg/L)
1	8.0			6.9				
2				6.9				
3				7.0				
4				7.1				
5	10.0	0.18		6.9	354			
6	10.0		2.61	6.9		6.4	2.2	0.20
7	10.0			7.0				
8	12.0			7.1				
9				7.1				
10				7.1				
11				7.1				
12	7.0	0.09		7.0	338			
13	7.0		2.78	7.1		8.0	1.8	<0.10
14	9.0			7.1				
15	10.0			7.0				
16				6.9				
17				6.9				
18				7.1				
19	17.0	0.06		7.0	344			
20	18.0		2.42	7.0		8.1	1.9	0.20
21	19.0			7.1				
22	14.0			7.1				
23				6.9				
24				7.0				
25				6.9				
26	9.0	0.14		6.9	344			
27	8.0		2.26	7.0		7.4	1.0	0.13
28	9.0			7.0				
29	10.0			6.9				
30				6.9				
31				7.2				
AVG	11.0	0.12	2.52	7.0	345	7.5	1.7	0.16
MIN	7.0	0.06	2.26	6.9	338	6.4	1.0	< 0.10
MAX	19.0	0.18	2.78	7.2	354	8.1	2.2	0.20

JUNE

Date	3/Week		Weekly		Monthly			
	BOD (mg/L)	MBAS (mg/L)	Dissolved Oxygen (mg/L)	pH (S.U.)	Total Dissolved Solids (mg/L)	Nitrate (mg/L)	TKN (mg/L)	Ammonia (mg/L)
1				7.0				
2	10.8	0.11		6.9				
3	10.2		2.35	7.1	315			
4	10.0			7.4		7.1	1.3	0.50
5	9.0			6.9				
6				6.9				
7				7.0				
8				7.0				
9	8.6	0.13		7.1	371			
10	6.5		2.52	7.0		7.6	1.7	0.12
11	7.3			6.9				
12	9.6			7.1				
13				7.0				
14				6.9				
15				7.1				
16	9.0	0.15		7.0	359			
17	7.0		2.46	7.0		8.0	1.2	0.39
18	8.0			7.0				
19	9.0			7.0				
20				7.1				
21				6.9				
22				7.1				
23	8.0	0.16		7.1	395			
24	8.0		2.42	7.0		7.6	1.4	0.17
25	7.0			7.0				
26	6.0			6.9				
27				7.0				
28				7.1				
29	<5.0			7.0				
30	6.0	0.15		7.0	368			
AVG	8.1	0.14	2.44	7.0	362	7.6	1.4	0.30
MIN	< 5.0	0.11	2.35	6.9	315	7.1	1.4	0.50
MAX	10.8	0.16	2.52	7.4	395	8.0	1.4	0.12

VWRA  
Percolation Pond Influent Monitoring  
Three/week - Monthly  
2008

JULY

AUGUST

Date	3/Week Weekly				Monthly				Date	3/Week Weekly				Monthly			
	BOD (mg/L)	MBAS (mg/L)	Dissolved Oxygen (mg/L)	pH (S.U.)	Total Dissolved Solids (mg/L)	Nitrate (mg/L)	TKN (mg/L)	Ammonia (mg/L)		BOD (mg/L)	MBAS (mg/L)	Dissolved Oxygen (mg/L)	pH (S.U.)	Total Dissolved Solids (mg/L)	Nitrate (mg/L)	TKN (mg/L)	Ammonia (mg/L)
1	6.0		2.51	7.0		6.6	1.1	0.12	1			7.0					
2	7.0			6.9					2			7.2					
3				7.1					3			7.0					
4				7.0					4	10.0	0.16	7.0	378				
5				7.1					5	10.0		2.13	6.8	7.3	1.2	0.15	
6				7.0					6	8.0			7.0				
7	6.0	0.15		7.1	362				7	10.0			7.0				
8	5.0		2.35	7.1		7.0	1.0	0.15	8				6.9				
9	8.0			7.0					9				7.1				
10	6.0			6.9					10				7.0				
11				7.0					11	7.0	0.12	7.0	357				
12				7.1					12	8.0		2.08	7.0	7.0	1.4	0.16	
13				7.1					13	6.0			7.1				
14	11.0	0.21		7.0					14	6.0			7.0				
15	10.0		2.06	6.9	347	6.8	2.1	0.20	15				6.9				
16	10.0			7.0					16				7.0				
17	8.0			7.0					17				7.0				
18				7.1					18	5.0	0.15	7.0	424				
19				7.3					19	4.0			7.1	7.4	1.0	0.16	
20				7.1					20	5.0			7.0				
21	10.0	0.14		7.0	340				21	6.0			6.9				
22	10.0		2.21	7.0		7.0	1.0	0.20	22			2.07	7.0				
23	8.0			7.0					23				7.1				
24	8.0			6.9					24				7.0				
25				6.9					25	5.0	0.10	2.07	7.0	362			
26				7.0					26	5.0			7.0	7.6	1.4	0.21	
27				7.0					27	16.0			6.9				
28	9.0	0.13		7.0	397				28	13.0			7.0				
29	10.0		2.08	6.9		7.7	1.0	0.18	29				6.9				
30	8.0			7.2					30				7.2				
31	11.0			7.0					31				7.2				
AVG	8.4	0.16	2.24	7.0	362	7.0	1.2	0.17	AVG	7.8	0.13	2.09	7.0	380	7.3	1.3	0.17
MIN	5.0	0.13	2.06	6.9	340	7.7	1.0	0.12	MIN	4.0	0.10	2.07	6.8	357	7.0	1.0	0.15
MAX	11.0	0.21	2.51	7.3	397	6.6	2.1	0.20	MAX	16.0	0.16	2.13	7.2	424	7.6	1.4	0.21

VWRA  
Percolation Pond Influent Monitoring  
Three/week - Monthly  
2008

SEPTEMBER

Date	3/Week				Monthly			
	BOD (mg/L)	MBAS (mg/L)	Dissolved Oxygen (mg/L)	pH (S.U.)	Total Dissolved Solids (mg/L)	Nitrate (mg/L)	TKN (mg/L)	Ammonia (mg/L)
1	7.0	0.11		7.1	383			
2	8.0			7.1		6.3	0.9	0.19
3	10.0			7.1				
4	9.0		2.00	7.0				
5				7.0				
6				7.2				
7				7.0				
8	9.0	0.09		7.0	342			
9	8.0			7.0		6.5	1.0	0.19
10	8.0		3.00	7.1				
11	10.0			7.0				
12				7.0				
13				7.2				
14				7.2				
15	11.0	0.11		7.1	388			
16	12.0			7.2		6.2	1.0	0.15
17	12.0		2.40	7.0				
18				6.9				
19				6.9				
20				7.2				
21				7.5				
22	10.0	0.12		7.1	347			
23	9.0			7.0		6.1	0.8	0.18
24	9.0		1.90	7.0				
25	11.0			7.0				
26				7.0				
27				7.1				
28				7.1				
29	6.0	0.11		7.0	376			
30	<3.0			7.0		6.9	0.9	0.16
AVG	8.9	0.11	2.33	7.1	367	6.4	0.9	0.17
MIN	< 3.0	0.09	1.90	6.9	342	6.1	0.8	0.15
MAX	12.0	0.12	3.00	7.5	388	6.9	1.0	0.19

OCTOBER

Date	3/Week				Monthly			
	BOD (mg/L)	MBAS (mg/L)	Dissolved Oxygen (mg/L)	pH (S.U.)	Total Dissolved Solids (mg/L)	Nitrate (mg/L)	TKN (mg/L)	Ammonia (mg/L)
1	10.0		2.20	7.1				
2	8.0			7.0				
3				7.1				
4				7.1				
5				7.1				
6	5.0	0.13		7.1				
7	6.0			7.0	355	5.3	0.9	5.3
8	6.0		2.00	7.0				
9	6.0			7.0				
10				7.1				
11				7.0				
12				7.1				
13	6.0	0.14		7.0	375			
14	6.0			7.0		5.1	0.8	5.1
15	4.0		2.15	7.0				
16	17.0			7.0				
17				7.0				
18				7.1				
19				7.1				
20	7.0	0.12		7.0	367			
21	7.0			7.0		7.3	0.8	7.3
22	8.0		2.13	7.0				
23	8.0			6.8				
24				6.9				
25				7.0				
26				6.9				
27	9.0	0.08		6.9	357			
28	10.0			6.9		6.0	0.9	6.0
29	7.0		2.00	6.9				
30	7.0			7.0				
31				6.9				
AVG	7.6	0.12	2.10	7.0	364	5.9	0.8	5.9
MIN	4.0	0.08	2.00	6.8	355	5.1	0.8	5.1
MAX	17.0	0.14	2.20	7.1	375	7.3	0.9	7.3

VWRA  
Percolation Pond Influent Monitoring  
Three/week - Monthly  
2008

NOVEMBER

DECEMBER

Date	3/Week				Monthly				Date	3/Week				Monthly			
	BOD (mg/L)	MBAS (mg/L)	Dissolved Oxygen (mg/L)	pH (S.U.)	Total Dissolved Solids (mg/L)	Nitrate (mg/L)	TKN (mg/L)	Ammonia (mg/L)		BOD (mg/L)	MBAS (mg/L)	Dissolved Oxygen (mg/L)	pH (S.U.)	Total Dissolved Solids (mg/L)	Nitrate (mg/L)	TKN (mg/L)	Ammonia (mg/L)
1				7.4					1	7.0	0.14		6.7	335			
2				7.1					2	10.0			7.0				
3	8.0	0.12		7.0	338				3	10.0			6.9		8.5	1.4	
4	6.0			6.9		7.9	0.7	0.16	4	10.0		2.15	6.7				
5	7.0		2.25	7.0					5				6.7				
6	7.0			6.9					6				6.7				
7				6.8					7				6.9				
8				7.0					8	8.0	0.13		6.8	354			
9				7.1					9	7.0			6.8				
10	5.0	0.14		7.0	330				10	10.0			6.6		8.6	0.6	<0.10
11	8.0		2.45	7.1		7.7	0.6	0.12	11	8.0		1.61	6.8				
12	8.0			6.9					12				6.8				
13	7.0			6.9					13				6.9				
14				6.9					14				6.8				
15				6.8					15	7.0	0.11		6.8	358			
16				7.0					16	7.0			6.7				
17	7.0	0.24		6.9	361				17	6.0			6.8		8.7	0.6	<0.10
18	8.0			6.9		7.4	0.8	0.14	18	7.0			6.8				
19	10.0			6.9					19				6.7				
20	9.0		2.50	6.8					20				6.9				
21				6.8					21				6.7				
22				6.9					22	6.0	0.16		6.7	372			
23				7.0					23	6.0			6.7				
24	12.0	0.13		6.8	220				24	6.0			6.8		7.8	0.6	<0.10
25	14.0		2.15	6.8		7.0	1.0	<0.10	25	6.0			6.8				
26	17.0			6.7					26				6.9				
27	10.0			7.0					27				6.7				
28				6.8					28				6.8				
29				6.9					29	6.0	0.13		6.7	446			
30				6.6					30	7.0			6.7		7.0	1.4	0.13
31									31	8.0			6.9				
AVG	8.9	0.16	2.34	6.9	312	7.5	0.8	<0.13	AVG	7.5	0.13	1.88	6.8	373	8.1	0.9	0.11
MIN	5.0	0.12	2.15	6.6	220	7.0	0.6	0.16	MIN	6.0	0.11	1.61	6.6	335	7.0	0.6	<0.10
MAX	17.0	0.24	2.50	7.4	361	7.9	1.0	<0.10	MAX	10.0	0.16	2.15	7.0	446	8.7	1.4	0.13



**SECTION 7**

**GROUNDWATER MONITORING**

VWRA  
Ground Water Monitoring  
2008  
Schedule

Parameter	Units	Type of Sample	Frequency	2008 Sample Month(s)
COD	mg/L	Grab	Semiannually	January/July
MBAS	mg/L	Grab	Semiannually	January/July
Total Dissolved Solids	mg/L	Grab	Semiannually	January/July
Chlorides	mg/L	Grab	Semiannually	January/July
Sodium	mg/L	Grab	Semiannually	January/July
Sulfate	mg/L	Grab	Semiannually	January/July
Nitrate Nitrogen	mg/L as N	Grab	Semiannually	January/July
Kjeldahl Nitrogen	mg/L as N	Grab	Semiannually	January/July
Ammonia Nitrogen	mg/L as N	Grab	Semiannually	January/July
Total Organic Carbon	mg/L	Grab	Semiannually	January/July
Total Petroleum Hydrocarbons	mg/L	Grab	Semiannually	January/July
Bromoform	mg/L	Grab	Semiannually	January/July
Chloroform	mg/L	Grab	Semiannually	January/July
Dibromochloromethane	mg/L	Grab	Semiannually	January/July
Dichlorobromomethane	mg/L	Grab	Semiannually	January/July
Total Cyanides	mg/L	Grab	Annually	July
Total Phenols	mg/L	Grab	Annually	July
Purgable Organics	mg/L	Grab	Annually	July
Base/Neutral Extractable Organics	mg/L	Grab	Annually	July
Acid Extractable Organics	mg/L	Grab	Annually	July
Heavy Metals	mg/L	Grab	Annually	July
Methyl t-Butyl Ether	ug/L	Grab	Annually	July

VWRA  
Ground Water Monitoring  
Semiannual  
2008

**January**

1/22 - 23/2008 Semiannual

Well			Total Dissolved				Nitrate		Ammonia	Total Organic		Bromoform (mg/L)	Chloroform (mg/L)	Dibromochloro-methane (mg/L)	Dichlorobromo-methane (mg/L)
	COD (mg/L)	MBAS (mg/L)	Solids (mg/L)	Chlorides (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	As N (mg/L)	TKN (mg/L)	As N (mg/L)	Carbon (mg/L)					
NW 2	16	0.08	500	66	110	62	7.4	<0.10	<0.10	<0.70	<0.00050	<0.00050	<0.00050	<0.00050	
NW 3	20	0.05	620	81	140	77	0.20	2.2	1.7	2.4	<0.00050	<0.00050	<0.00050	<0.00050	
OW 4	20	<0.05	493	62	150	52	8.4	0.45	0.15	<0.70	<0.00050	0.00170	<0.00050	<0.00050	
OW 6	<10	<0.05	482	41	110	82	2.0	<0.10	0.13	<0.70	<0.00050	<0.00050	<0.00050	<0.00050	
SP 1	<10	0.08	563	72	92	54	12	<0.10	<0.10	1.1	<0.00050	0.00200	<0.00050	<0.00050	
SP 2	20	<0.05	567	75	100	73	10	<0.40	<0.10	0.87	<0.00050	0.00330	<0.00050	<0.00050	
SP 3	36	0.09	449	65	73	46	10	<0.40	<0.20	1.5	<0.00050	0.00089	<0.00050	<0.00050	
SP 4	19	<0.05	477	57	77	44	10	<0.40	<0.20	0.93	<0.00050	0.00240	<0.00050	<0.00050	

**July**

7/01 - 02/2008 Semiannual

Well			Total Dissolved				Nitrate		Ammonia	Total Organic		Bromoform (mg/L)	Chloroform (mg/L)	Dibromochloro-methane (mg/L)	Dichlorobromo-methane (mg/L)
	COD (mg/L)	MBAS (mg/L)	Solids (mg/L)	Chlorides (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	As N (mg/L)	TKN (mg/L)	As N (mg/L)	Carbon (mg/L)					
NW 2	<10	0.05	448	65	100	55	6.1	<0.10	<0.10	1.4	<0.00050	<0.00050	<0.00050	<0.00050	
NW 3	<10	0.07	572	77	120	72	<0.2	0.33	<0.10	2.7	<0.00050	<0.00050	<0.00050	<0.00050	
OW 4	<10	<0.05	466	60	110	45	9.5	0.21	<0.10	0.86	<0.00050	0.00170	<0.00050	<0.00050	
OW 6	<10	<0.05	422	38	78	86	2.4	<0.10	<0.10	0.90	<0.00050	<0.00050	<0.00050	<0.00050	
SP 1	<10	<0.05	494	64	100	52	8.9	<0.10	<0.10	0.75	<0.00050	0.00092	<0.00050	<0.00050	
SP 2	<10	<0.05	576	66	110	71	8.9	<0.10	<0.10	0.86	<0.00050	0.00170	<0.00050	<0.00050	
SP 3	<10	0.05	371	63	84	37	5.5	<0.10	<0.10	1.7	<0.00050	0.00190	<0.00050	<0.00050	
SP 4	<10	<0.05	448	60	78	39	9.6	<0.10	<0.10	0.88	<0.00050	0.0020	<0.00050	<0.00050	

VWRA  
Groundwater Monitoring  
Annual  
2008

**Well SP 1**

July

Sample Date:	07/02/2008	Parameter	Units	Result	EPA Method
<u>Total Cyanides</u>					
	(mg/L)	ND		SM 4500CN E	
<u>Total Phenols</u>					
	(mg/L)	ND		EPA 420.2	
<u>Purgable Organics</u>					
Volatile Organic Compounds (mg/L) ND EPA 624					
All results Non-Detectable with the exception of:					
	Chloroform (mg/L)	0.000920			
<u>Base Neutral Extractable</u>					
Semivolatile Organic Cmpds (mg/L) ND EPA 625					
All results Non-Detectable					
<u>Acid Extractable Organics</u>					
Phenol Group (mg/L) ND EPA 625					
<u>Heavy Metals</u>					
Metals and Metalloids (mg/L) ND EPA 200.8					
All results Non-Detectable with the exception of:					
	Barium (mg/L)	0.05			
	Boron (mg/L)	0.29			
<u>Methyl t-Butyl Ether</u>					
	(ug/L)	ND			

**Well SP 2**

July

Sample Date:	07/02/2008	Parameter	Units	Result	EPA Method
<u>Total Cyanides</u>					
	(mg/L)	ND		SM 4500CN E	
<u>Total Phenols</u>					
	(mg/L)	ND		EPA 420.2	
<u>Purgable Organics</u>					
Volatile Organic Compounds (mg/L) ND EPA 624					
All results Non-Detectable with the exception of:					
	Chloroform (mg/L)	0.00170			
<u>Base Neutral Extractable</u>					
Semivolatile Organic Cmpds (mg/L) ND EPA 625					
All results Non-Detectable					
<u>Acid Extractable Organics</u>					
Phenol Group (mg/L) ND EPA 625					
<u>Heavy Metals</u>					
Metals and Metalloids (mg/L) ND EPA 200.8					
All results Non-Detectable with the exception of:					
	Barium (mg/L)	0.062			
	Boron (mg/L)	0.30			
	Iron (mg/L)	0.066			
<u>Methyl t-Butyl Ether</u>					
	(ug/L)	ND		EPA 624	

VVWRA  
Groundwater Monitoring  
Annual  
2008

**Well SP 1**

July

Sample Date:	07/02/2008	Parameter	Units	Result	EPA Method
<u>Total Cyanides</u>					
	(mg/L)	ND	SM 4500CN E		
<u>Total Phenols</u>					
	(mg/L)	ND	EPA 420.4		
<u>Purgable Organics</u>					
Volatile Organic Compounds (mg/L) ND EPA 624					
All results Non-Detectable with the exception of:					
	Chloroform (mg/L)	0.000920			
<u>Base Neutral Extractable</u>					
Semivolatile Organic Cmpds (mg/L) ND EPA 625					
All results Non-Detectable					
<u>Acid Extractable Organics</u>					
Phenol Group (mg/L) ND EPA 625					
<u>Heavy Metals</u>					
Metals and Metalloids (mg/L) ND EPA 200.8					
All results Non-Detectable with the exception of:					
	Barium (mg/L)	0.05			
	Boron (mg/L)	0.29			
<u>Methyl t-Butyl Ether</u>					
	(ug/L)	ND			

**Well SP 2**

July

Sample Date:	07/02/2008	Parameter	Units	Result	EPA Method
<u>Total Cyanides</u>					
	(mg/L)	ND	SM 4500CN E		
<u>Total Phenols</u>					
	(mg/L)	ND	EPA 420.4		
<u>Purgable Organics</u>					
Volatile Organic Compounds (mg/L) ND EPA 624					
All results Non-Detectable with the exception of:					
	Chloroform (mg/L)	0.00170			
<u>Base Neutral Extractable</u>					
Semivolatile Organic Cmpds (mg/L) ND EPA 625					
All results Non-Detectable					
<u>Acid Extractable Organics</u>					
Phenol Group (mg/L) ND EPA 625					
<u>Heavy Metals</u>					
Metals and Metalloids (mg/L) ND EPA 200.8					
All results Non-Detectable with the exception of:					
	Barium (mg/L)	0.062			
	Boron (mg/L)	0.30			
	Iron (mg/L)	0.066			
<u>Methyl t-Butyl Ether</u>					
	(ug/L)	ND	EPA 624		

VWRA  
Groundwater Monitoring  
Annual  
2008

**Well SP 3**

July

Sample Date:	07/02/2008	Parameter	Units	Result	EPA Method
<u>Total Cyanides</u>					
	(mg/L)	ND		SM 4500CN E	
<u>Total Phenols</u>					
	(mg/L)	ND		EPA 420.4	
<u>Purgable Organics</u>					
Volatile Organic Cmpds	(mg/L)	ND		EPA 624	
All results Non-Detectable with the exception of:					
Chloroform	(mg/L)	0.00190			
<u>Base Neutral Extractable</u>					
Semivolatile Organic Cmpds	(mg/L)	ND		EPA 625	
All results Non-Detectable					
<u>Acid Extractable Organics</u>					
Phenol Group	(mg/L)	ND		EPA 625	
<u>Heavy Metals</u>					
Metals and Metalloids	(mg/L)	ND		EPA 200.8	
All results Non-Detectable with the exception of:					
Barium	(mg/L)	0.028			
Boron	(mg/L)	0.28			
Vanadium	(mg/L)	0.011			
<u>Methyl t-Butyl Ether</u>	(ug/L)	ND		EPA 624	

**Well SP 4**

July

Sample Date:	07/02/2008	Parameter	Units	Result	EPA Method
<u>Total Cyanides</u>					
	(mg/L)	ND		SM 4500CN E	
<u>Total Phenols</u>					
	(mg/L)	ND		EPA 420.4	
<u>Purgable Organics</u>					
Volatile Organic Cmpds	(mg/L)	ND		EPA 624	
All results Non-Detectable with the exception of:					
Chloroform	(mg/L)	0.0020			
<u>Base Neutral Extractable</u>					
Semivolatile Organic Cmpds	(mg/L)	ND		EPA 625	
All results Non-Detectable					
<u>Acid Extractable Organics</u>					
Phenol Group	(mg/L)	ND		EPA 625	
<u>Heavy Metals</u>					
Metals and Metalloids	(mg/L)	ND		EPA 200.8	
All results Non-Detectable with the exception of:					
Barium	(mg/L)	0.0.10			
Boron	(mg/L)	0.0.25			
Iron	(mg/L)	0.20			
Vanadium	(mg/L)	0.012			
<u>Methyl t-Butyl Ether</u>	(ug/L)	ND		EPA 624	

VWRA  
Groundwater Monitoring  
Annual  
2008

**Well NW 2**

July

Sample Date:	07/02/2008	Parameter	Units	Result	EPA Method
		<u>Total Cyanides</u>	(mg/L)	ND	SM 4500CN E
		<u>Total Phenols</u>	(mg/L)	ND	EPA 420.4
		<u>Purgable Organics</u>			
		Volatile Organic Cmpds	(mg/L)	ND	EPA 624
		All results Non-Detectable			
		<u>Base Neutral Extractable</u>			
		Semivolatile Organic Cmpds	(mg/L)	ND	EPA 625
		All results Non-Detectable			
		<u>Acid Extractable Organics</u>			
		Phenol Group	(mg/L)	ND	EPA 625
		<u>Heavy Metals</u>			
		Metals and Metalloids	(mg/L)	ND	EPA 200.8
		All results Non-Detectable with the exception of:			
		Arsenic	(mg/L)	0.010	
		Barium	(mg/L)	0.120	
		Boron	(mg/L)	0.280	
		Manganese	(mg/L)	0.120	
		Vanadium	(mg/L)	0.016	
		<u>Methyl t-Butyl Ether</u>	(ug/L)	ND	EPA 624

**Well NW 3**

July

Sample Date:	07/02/2008	Parameter	Units	Result	EPA Method
		<u>Total Cyanides</u>	(mg/L)	ND	SM 4500CN E
		<u>Total Phenols</u>	(mg/L)	ND	EPA 420.4
		<u>Purgable Organics</u>			
		Volatile Organic Cmpds	(mg/L)	ND	EPA 624
		All results Non-Detectable			
		<u>Base Neutral Extractable</u>			
		Semivolatile Organic Cmpds	(mg/L)	ND	EPA 625
		All results Non-Detectable			
		<u>Acid Extractable Organics</u>			
		Phenol Group	(mg/L)	ND	EPA 625
		<u>Heavy Metals</u>			
		Metals and Metalloids	(mg/L)	ND	EPA 200.8
		All results Non-Detectable with the exception of:			
		Arsenic	(mg/L)	0.010	
		Barium	(mg/L)	0.0590	
		Boron	(mg/L)	0.40	
		Iron	(mg/L)	0.079	
		Manganese	(mg/L)	0.430	
		Molybdenum	(mg/L)	0.013	
		Vanadium	(mg/L)	0.018	
		<u>Methyl t-Butyl Ether</u>	(ug/L)	ND	EPA 624

VVWRA  
Groundwater Monitoring  
Annual  
2008

**Well OW 4**

July

Sample Date:	01/02/2008	Parameter	Units	Result	EPA Method
		<u>Total Cyanides</u>	(mg/L)	ND	SM 4500CN E
		<u>Total Phenols</u>	(mg/L)	ND	EPA 420.4
		<u>Purgable Organics</u>			
		Volatile Organic Compounds	(mg/L)	ND	EPA 624
		All results Non-Detectable with the exception of:			
		Chloroform	(mg/L)	0.0017	
		<u>Base Neutral Extractable</u>			
		Semivolatile Organic Cmpds	(mg/L)	ND	EPA 625
		All results Non-Detectable			
		<u>Acid Extractable Organics</u>			
		Phenol Group	(mg/L)	ND	EPA 625
		<u>Heavy Metals</u>			
		Metals and Metalloids	(mg/L)	ND	EPA 200.8
		All results Non-Detectable with the exception of:			
		Arsenic	(mg/L)	0.0056	
		Barium	(mg/L)	0.58	
		Boron	(mg/L)	0.290	
		Vanadium	(mg/L)	0.020	
		<u>Methyl t-Butyl Ether</u>	(ug/L)	ND	EPA 624

**Well OW 6**

July

Sample Date:	07/02/2008	Parameter	Units	Result	EPA Method
		<u>Total Cyanides</u>	(mg/L)	ND	SM 4500CN E
		<u>Total Phenols</u>	(mg/L)	ND	EPA 420.4
		<u>Purgable Organics</u>			
		Volatile Organic Compounds	(mg/L)	ND	EPA 624
		All results Non-Detectable			
		<u>Base Neutral Extractable</u>			
		Semivolatile Organic Cmpds	(mg/L)	ND	EPA 625
		All results Non-Detectable			
		<u>Acid Extractable Organics</u>			
		Phenol Group	(mg/L)	ND	EPA 625
		<u>Heavy Metals</u>			
		Metals and Metalloids	(mg/L)	ND	EPA 200.8
		All results Non-Detectable with the exception of:			
		Barium	(mg/L)	0.070	
		Boron	(mg/L)	0.190	
		Iron	(mg/L)	0.260	
		Manganese	(mg/L)	0.037	
		<u>Methyl t-Butyl Ether</u>	(ug/L)	ND	EPA 624





**E.S.BABCOCK & Sons, Inc.**  
Environmental Laboratories *est 1906*

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

Analytical Report: Page 2 of 6  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 11-Feb-2008

**Work Order Number: A8A2105**  
Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number  
**A8A2105-01**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
SP-1 #220Semi-Annuals	Liquid	01/23/08 11:06	01/24/08 15:00

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
<b>Cations</b>							
Sodium	92	1.0	mg/L	EPA 200.7	02/06/08 11:18	lmt	
<b>Anions</b>							
Chloride	72	1.0	mg/L	EPA 300.0	01/25/08 23:21	cth	
Sulfate	54	0.50	mg/L	EPA 300.0	01/25/08 01:17	JC	
Nitrate as N	12	0.20	mg/L	EPA 300.0	01/25/08 23:21	cth	N_HTa
<b>Aggregate Organic Compounds</b>							
Total Organic Carbon	1.1	0.70	mg/L	SM 5310B	02/05/08 14:18	krv	
Total Petroleum Hydrocarbons	ND	1.0	mg/L	EPA 418.1	01/27/08 11:50	htt	
<b>Surfactants</b>							
MBAS	0.08	0.05	mg/L	SM 5540C	01/24/08 17:27	ctl	
<b>Nutrients</b>							
Ammonia-Nitrogen	ND	0.10	mg/L	SM4500NH3H	01/28/08 10:29	sll	Nconf, NMout
Kjeldahl Nitrogen	ND	0.10	mg/L	EPA 351.2	01/30/08 09:40	sll	
<b>Volatile Organic Compounds by EPA 524.2</b>							
Total Trihalomethanes	2.1	0.50	ug/L	EPA 524.2	01/26/08 03:39	EEC	
Bromodichloromethane	ND	0.50	ug/L	EPA 524.2	01/26/08 03:39	EEC	
Bromoform	ND	0.50	ug/L	EPA 524.2	01/26/08 03:39	EEC	
Chloroform	2.0	0.50	ug/L	EPA 524.2	01/26/08 03:39	EEC	
Dibromochloromethane	ND	0.50	ug/L	EPA 524.2	01/26/08 03:39	EEC	
Surrogate: 1,2-Dichloroethane-d4	108 %	50-150		EPA 524.2	01/26/08 03:39	EEC	
Surrogate: Bromofluorobenzene	97.9 %	50-150		EPA 524.2	01/26/08 03:39	EEC	
Surrogate: Toluene-d8	96.9 %	50-150		EPA 524.2	01/26/08 03:39	EEC	

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Client Name: Victor Valley Reclamation Authority
Contact: Gina Cloutier
Address: 15776 Main St. Suite 3
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Analytical Report: Page 3 of 6
Project Name: VVWRA-Lab
Project Number: [none]

Report Date: 11-Feb-2008

Work Order Number: A8A2105

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number

A8A2105-02

Sample Description: SP-2 #221 Semi-Annuals
Matrix: Liquid
Sampled Date/Time: 01/23/08 11:30
Received Date/Time: 01/24/08 15:00

Table with columns: Analyte(s), Result, RDL, Units, Method, Analysis Date, Analyst, Flag. Rows include Cations (Sodium), Anions (Chloride, Sulfate, Nitrate as N), Aggregate Organic Compounds (Total Organic Carbon, Total Petroleum Hydrocarbons), Surfactants (MBAS), Nutrients (Ammonia-Nitrogen, Kjeldahl Nitrogen), and Volatile Organic Compounds by EPA 524.2 (Total Trihalomethanes, Bromodichloromethane, Bromoform, Chloroform, Dibromochloromethane, and various Surrogate compounds).

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Analytical Report: Page 4 of 6
Project Name: VVWRA-Lab
Project Number: [none]

Report Date: 11-Feb-2008

Work Order Number: A8A2105

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number

A8A2105-03

Sample Description: SP-3 #222Semi-Annuals
Matrix: Liquid
Sampled Date/Time: 01/23/08 12:00
Received Date/Time: 01/24/08 15:00

Table with columns: Analyte(s), Result, RDL, Units, Method, Analysis Date, Analyst, Flag. Rows include Cations (Sodium), Anions (Chloride, Sulfate, Nitrate as N), Aggregate Organic Compounds (Total Organic Carbon, Total Petroleum Hydrocarbons), Surfactants (MBAS), Nutrients (Ammonia-Nitrogen, Kjeldahl Nitrogen), and Volatile Organic Compounds by EPA 524.2 (Total Trihalomethanes, Bromodichloromethane, Bromoform, Chloroform, Dibromochloromethane, and various Surrogate compounds).

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Analytical Report: Page 5 of 6  
Project Name: VVWRA-Lab  
Project Number: [none]

**Work Order Number: A8A2105**

Report Date: 11-Feb-2008

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number

**A8A2105-04**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
SP-4 #223Semi-Annuals	Liquid	01/23/08 12:32	01/24/08 15:00

<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>Cations</b>							
Sodium	77	1.0	mg/L	EPA 200.7	02/06/08 11:24	lmt	
<b>Anions</b>							
Chloride	57	1.0	mg/L	EPA 300.0	01/28/08 22:59	cth	
Sulfate	44	0.50	mg/L	EPA 300.0	01/25/08 02:14	JC	
Nitrate as N	10	0.20	mg/L	EPA 300.0	01/28/08 23:09	cth	N_HTC
<b>Aggregate Organic Compounds</b>							
Total Organic Carbon	0.93	0.70	mg/L	SM 5310B	02/05/08 14:18	krv	
Total Petroleum Hydrocarbons	ND	1.0	mg/L	EPA 418.1	01/27/08 11:50	htt	
<b>Surfactants</b>							
MBAS	ND	0.05	mg/L	SM 5540C	01/24/08 19:25	ctl	
<b>Nutrients</b>							
Ammonia-Nitrogen	ND	0.20	mg/L	SM4500NH3H	02/01/08 14:07	sll	N_RLm
Kjeldahl Nitrogen	ND	0.40	mg/L	EPA 351.2	02/04/08 10:16	sll	N_RLm
<b>Volatile Organic Compounds by EPA 524.2</b>							
Total Trihalomethanes	2.6	0.50	ug/L	EPA 524.2	01/26/08 05:25	EEC	
Bromodichloromethane	ND	0.50	ug/L	EPA 524.2	01/26/08 05:25	EEC	
Bromoform	ND	0.50	ug/L	EPA 524.2	01/26/08 05:25	EEC	
Chloroform	2.4	0.50	ug/L	EPA 524.2	01/26/08 05:25	EEC	
Dibromochloromethane	ND	0.50	ug/L	EPA 524.2	01/26/08 05:25	EEC	
Surrogate: 1,2-Dichloroethane-d4	110 %	50-150		EPA 524.2	01/26/08 05:25	EEC	
Surrogate: Bromofluorobenzene	101 %	50-150		EPA 524.2	01/26/08 05:25	EEC	
Surrogate: Toluene-d8	95.2 %	50-150		EPA 524.2	01/26/08 05:25	EEC	

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Analytical Report: Page 6 of 6  
 Project Name: VVWRA-Lab  
 Project Number: [none]

Report Date: 11-Feb-2008

**Work Order Number: A8A2105**

Received on Ice (Y/N): Yes Temp: 5 °C

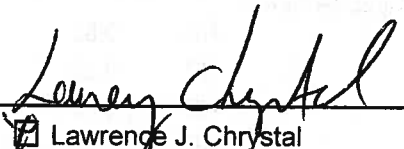
**Notes and Definitions**

- N\_HTa Sample analyzed outside of the EPA recommended holding time.
- N\_HTc Original sample was run within holding time. Sample was reanalyzed and confirmed the original results. Reanalysis was performed outside EPA recommended holding time due to QC failure in the original batch.
- N\_RLm Due to sample matrix, the reporting limit has been raised.
- Nconf Result(s) confirmed by re-analysis.
- NMout 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

\* / (Non-NELAP): 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.

  
 Lawrence J. Chrystal  
 Laboratory Director

- Project Manager
- Allison Mackenzie  
General Manager
- Lawrence J. Chrystal  
Laboratory Director

cc:

ESB\_Short\_5.5 Report

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Analytical Report: Page 5 of 9  
 Project Name: VVWRA-Lab  
 Project Number: [none]

Report Date: 11-Feb-2008

**Work Order Number: A8A1973**

Received on Ice (Y/N): Yes Temp: 10 °C

Laboratory Reference Number

**A8A1973-04**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
NW-2 #216Semi-Annuals	Liquid	01/23/08 08:58	01/23/08 14:25

<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>
Cations							
Sodium	110	1.0	mg/L	EPA 200.7	02/04/08 11:54	lmt	
Anions							
Chloride	66	1.0	mg/L	EPA 300.0	01/24/08 00:53	JC	
Sulfate	62	0.50	mg/L	EPA 300.0	01/24/08 00:53	JC	
Nitrate as N	7.4	0.20	mg/L	EPA 300.0	01/24/08 00:53	cth	
Nitrate	33	1.0	mg/L	EPA 300.0	01/24/08 00:53	JC	
Aggregate Organic Compounds							
Total Organic Carbon	ND	0.70	mg/L	SM 5310B	02/05/08 14:18	krv	
Total Petroleum Hydrocarbons	ND	1.0	mg/L	EPA 418.1	01/27/08 11:50	htt	
Surfactants							
MBAS	0.08	0.05	mg/L	SM 5540C	01/24/08 12:30	ctl	
Nutrients							
Ammonia-Nitrogen	ND	0.10	mg/L	SM4500NH3H	01/30/08 12:25	sll	
Kjeldahl Nitrogen	ND	0.10	mg/L	EPA 351.2	01/31/08 16:52	sll	
Volatile Organic Compounds by EPA 524.2							
Total Trihalomethanes	ND	0.50	ug/L	EPA 524.2	01/24/08 21:30	EEC	
Bromodichloromethane	ND	0.50	ug/L	EPA 524.2	01/24/08 21:30	EEC	
Bromoform	ND	0.50	ug/L	EPA 524.2	01/24/08 21:30	EEC	
Chloroform	ND	0.50	ug/L	EPA 524.2	01/24/08 21:30	EEC	
Dibromochloromethane	ND	0.50	ug/L	EPA 524.2	01/24/08 21:30	EEC	
Surrogate: 1,2-Dichloroethane-d4	104 %	50-150		EPA 524.2	01/24/08 21:30	EEC	
Surrogate: Bromofluorobenzene	96.9 %	50-150		EPA 524.2	01/24/08 21:30	EEC	
Surrogate: Toluene-d8	93.3 %	50-150		EPA 524.2	01/24/08 21:30	EEC	

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Analytical Report: Page 6 of 9  
 Project Name: VVWRA-Lab  
 Project Number: [none]

Report Date: 11-Feb-2008

**Work Order Number: A8A1973**

Received on Ice (Y/N): Yes Temp: 10 °C

Laboratory Reference Number

**A8A1973-05**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
NW-3 #217Semi-Annuals	Liquid	01/23/08 09:59	01/23/08 14:25

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
<b>Cations</b>							
Sodium	140	1.0	mg/L	EPA 200.7	02/04/08 11:56	lmt	
<b>Anions</b>							
Chloride	81	1.0	mg/L	EPA 300.0	01/24/08 01:03	JC	
Sulfate	77	0.50	mg/L	EPA 300.0	01/24/08 01:03	JC	
Nitrate as N	0.20	0.20	mg/L	EPA 300.0	01/24/08 01:03	cth	
Nitrate	ND	1.0	mg/L	EPA 300.0	01/24/08 01:03	JC	
<b>Aggregate Organic Compounds</b>							
Total Organic Carbon	2.4	0.70	mg/L	SM 5310B	02/05/08 14:18	krv	
Total Petroleum Hydrocarbons	ND	1.0	mg/L	EPA 418.1	01/27/08 11:50	htt	
<b>Surfactants</b>							
MBAS	0.05	0.05	mg/L	SM 5540C	01/24/08 12:30	ctl	
<b>Nutrients</b>							
Ammonia-Nitrogen	1.7	0.10	mg/L	SM4500NH3H	01/31/08 12:00	sll	
Kjeldahl Nitrogen	2.2	0.40	mg/L	EPA 351.2	01/30/08 09:02	sll	
<b>Volatile Organic Compounds by EPA 524.2</b>							
Total Trihalomethanes	ND	0.50	ug/L	EPA 524.2	01/25/08 02:13	EEC	
Bromodichloromethane	ND	0.50	ug/L	EPA 524.2	01/25/08 02:13	EEC	
Bromoform	ND	0.50	ug/L	EPA 524.2	01/25/08 02:13	EEC	
Chloroform	ND	0.50	ug/L	EPA 524.2	01/25/08 02:13	EEC	
Dibromochloromethane	ND	0.50	ug/L	EPA 524.2	01/25/08 02:13	EEC	
Surrogate: 1,2-Dichloroethane-d4	102 %	50-150		EPA 524.2	01/25/08 02:13	EEC	
Surrogate: Bromofluorobenzene	95.0 %	50-150		EPA 524.2	01/25/08 02:13	EEC	
Surrogate: Toluene-d8	95.8 %	50-150		EPA 524.2	01/25/08 02:13	EEC	

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Analytical Report: Page 7 of 9  
 Project Name: VVWRA-Lab  
 Project Number: [none]

Report Date: 11-Feb-2008

**Work Order Number: A8A1973**

Received on Ice (Y/N): Yes Temp: 10 °C

Laboratory Reference Number

**A8A1973-06**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
OW-6 #218Semi-Annuals	Liquid	01/23/08 08:07	01/23/08 14:25

<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>Cations</b>							
Sodium	110	1.0	mg/L	EPA 200.7	02/04/08 11:58	lmt	
<b>Anions</b>							
Chloride	41	1.0	mg/L	EPA 300.0	01/24/08 01:39	JC	
Sulfate	82	0.50	mg/L	EPA 300.0	01/24/08 01:39	JC	
Nitrate as N	2.0	0.20	mg/L	EPA 300.0	01/24/08 01:39	cth	
Nitrate	8.9	1.0	mg/L	EPA 300.0	01/24/08 01:39	JC	
<b>Aggregate Organic Compounds</b>							
Total Organic Carbon	ND	0.70	mg/L	SM 5310B	02/05/08 14:18	krv	
Total Petroleum Hydrocarbons	ND	1.0	mg/L	EPA 418.1	01/27/08 11:50	htt	
<b>Surfactants</b>							
MBAS	ND	0.05	mg/L	SM 5540C	01/24/08 12:30	ctl	
<b>Nutrients</b>							
Ammonia-Nitrogen	0.13	0.10	mg/L	SM4500NH3H	01/25/08 10:47	sll	
Kjeldahl Nitrogen	ND	0.10	mg/L	EPA 351.2	01/30/08 09:04	sll	
<b>Volatile Organic Compounds by EPA 524.2</b>							
Total Trihalomethanes	ND	0.50	ug/L	EPA 524.2	01/25/08 02:48	EEC	
Bromodichloromethane	ND	0.50	ug/L	EPA 524.2	01/25/08 02:48	EEC	
Bromoform	ND	0.50	ug/L	EPA 524.2	01/25/08 02:48	EEC	
Chloroform	ND	0.50	ug/L	EPA 524.2	01/25/08 02:48	EEC	
Dibromochloromethane	ND	0.50	ug/L	EPA 524.2	01/25/08 02:48	EEC	
Surrogate: 1,2-Dichloroethane-d4	104 %	50-150		EPA 524.2	01/25/08 02:48	EEC	
Surrogate: Bromofluorobenzene	97.0 %	50-150		EPA 524.2	01/25/08 02:48	EEC	
Surrogate: Toluene-d8	95.0 %	50-150		EPA 524.2	01/25/08 02:48	EEC	

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Analytical Report: Page 8 of 9  
 Project Name: VVWRA-Lab  
 Project Number: [none]

Report Date: 11-Feb-2008

**Work Order Number: A8A1973**

Received on Ice (Y/N): Yes Temp: 10 °C

Laboratory Reference Number

**A8A1973-07**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
OW-4 #219Semi-Annuals	Liquid	01/23/08 10:41	01/23/08 14:25

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Sodium	150	1.0	mg/L	EPA 200.7	02/04/08 12:00	lmt	
Anions							
Chloride	62	1.0	mg/L	EPA 300.0	01/24/08 01:49	JC	
Sulfate	52	0.50	mg/L	EPA 300.0	01/24/08 01:49	JC	
Nitrate as N	8.4	0.20	mg/L	EPA 300.0	01/24/08 01:49	cth	
Nitrate	37	1.0	mg/L	EPA 300.0	01/24/08 01:49	JC	
Aggregate Organic Compounds							
Total Organic Carbon	ND	0.70	mg/L	SM 5310B	02/05/08 14:18	krv	
Total Petroleum Hydrocarbons	ND	1.0	mg/L	EPA 418.1	01/27/08 11:50	htt	
Surfactants							
MBAS	ND	0.05	mg/L	SM 5540C	01/24/08 12:30	ctl	
Nutrients							
Ammonia-Nitrogen	0.15	0.10	mg/L	SM4500NH3H	01/25/08 10:49	sll	
Kjeldahl Nitrogen	0.45	0.10	mg/L	EPA 351.2	01/30/08 09:06	sll	
Volatile Organic Compounds by EPA 524.2							
Total Trihalomethanes	1.7	0.50	ug/L	EPA 524.2	01/25/08 03:24	EEC	
Bromodichloromethane	ND	0.50	ug/L	EPA 524.2	01/25/08 03:24	EEC	
Bromoform	ND	0.50	ug/L	EPA 524.2	01/25/08 03:24	EEC	
Chloroform	1.7	0.50	ug/L	EPA 524.2	01/25/08 03:24	EEC	
Dibromochloromethane	ND	0.50	ug/L	EPA 524.2	01/25/08 03:24	EEC	
Surrogate: 1,2-Dichloroethane-d4	109 %	50-150		EPA 524.2	01/25/08 03:24	EEC	
Surrogate: Bromofluorobenzene	93.6 %	50-150		EPA 524.2	01/25/08 03:24	EEC	
Surrogate: Toluene-d8	96.9 %	50-150		EPA 524.2	01/25/08 03:24	EEC	

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Analytical Report: Page 9 of 9  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 11-Feb-2008

**Work Order Number: A8A1973**

Received on Ice (Y/N): Yes Temp: 10 °C

**Notes and Definitions**

- 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

\* / (Non-NELAP): 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.

- Project Manager
- Allison Mackenzie  
General Manager
- Lawrence J. Chrystal  
Laboratory Director

cc:

ESB\_Short\_5.5 Report

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NELAP no. 02101CA  
CA ELAP no. 1156  
EPA no. CA00102



**E.S. BABCOCK & Sons, Inc.**  
 Environmental Laboratories *est. 1906*

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

Analytical Report: Page 2 of 65  
 Project Name: VVWRA-Lab  
 Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

**A8G0337-01**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1631 SP-1	Liquid	07/02/08 11:40	07/03/08 14:15

<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>Cations</b>							
Total Hardness	120	3.0	mg/L	SM 3120B	07/09/08 16:25	lmt	
Calcium	37	1.0	mg/L	EPA 200.7	07/09/08 16:25	lmt	
Magnesium	5.9	1.0	mg/L	EPA 200.7	07/09/08 16:25	lmt	
Sodium	100	1.0	mg/L	EPA 200.7	07/09/08 16:25	lmt	
Potassium	2.4	1.0	mg/L	EPA 200.7	07/09/08 16:25	lmt	
<b>Anions</b>							
Total Alkalinity	170	3.0	mg/L	SM 2320B	07/14/08 18:21	ctl	
Hydroxide	ND	3.0	mg/L	SM 2320B	07/14/08 18:21	ctl	
Carbonate	ND	3.0	mg/L	SM 2320B	07/14/08 18:21	ctl	
Bicarbonate	210	3.0	mg/L	SM 2320B	07/14/08 18:21	ctl	
Chloride	64	1.0	mg/L	EPA 300.0	07/07/08 21:36	CTH	NMout
Sulfate	52	0.50	mg/L	EPA 300.0	07/07/08 21:36	CTH	
Nitrate as N	8.9	0.20	mg/L	EPA 300.0	07/07/08 21:36	CTH	N_HTC
<b>Aggregate Organic Compounds</b>							
Total Organic Carbon	0.75	0.70	mg/L	SM 5310B	07/08/08 18:16	krv	
Total Petroleum Hydrocarbons	1.3	1.0	mg/L	EPA 418.1	07/10/08 13:04	tdm	
Phenols	ND	0.020	mg/L	EPA 420.4	07/15/08 11:35	ms	
<b>Surfactants</b>							
MBAS	ND	0.05	mg/L	SM 5540C	07/03/08 20:00	ctl	
<b>General Inorganics</b>							
Cyanide	ND	0.005	mg/L	SM 4500CN E	07/15/08 13:32	sl	

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NELAP no. 02101CA  
 CA ELAP no. 1156  
 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 3 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

**A8G0337-01**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1631 SP-1	Liquid	07/02/08 11:40	07/03/08 14:15

<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>Nutrients</b>							
Nitrite as N	ND	0.10	mg/L	SM 4500NO2 B	07/03/08 21:36	jc	
Ammonia-Nitrogen	ND	0.10	mg/L	SM4500NH3H	07/07/08 13:01	sll	
Kjeldahl Nitrogen	ND	0.10	mg/L	EPA 351.2	07/11/08 09:59	sll	
<b>Metals and Metalloids</b>							
Antimony	ND	10	ug/L	EPA 200.8	07/09/08 14:35	ap	
Arsenic	ND	5.0	ug/L	EPA 200.8	07/09/08 14:35	ap	
Barium	50	20	ug/L	EPA 200.8	07/09/08 14:35	ap	
Beryllium	ND	10	ug/L	EPA 200.8	07/09/08 14:35	ap	
Boron	290	100	ug/L	EPA 200.7	07/09/08 16:25	lmt	
Cadmium	ND	2.0	ug/L	EPA 200.8	07/09/08 14:35	ap	
Total Chromium	ND	20	ug/L	EPA 200.8	07/09/08 14:35	ap	
Cobalt	ND	10	ug/L	EPA 200.8	07/09/08 14:35	ap	
Copper	ND	10	ug/L	EPA 200.8	07/09/08 14:35	ap	
Iron	ND	50	ug/L	EPA 200.7	07/09/08 16:26	lmt	
Lead	ND	10	ug/L	EPA 200.8	07/09/08 14:35	ap	
Manganese	ND	10	ug/L	EPA 200.8	07/09/08 14:35	ap	
Mercury	ND	0.50	ug/L	EPA 200.8	07/09/08 14:35	ap	
Molybdenum	ND	10	ug/L	EPA 200.8	07/09/08 14:35	ap	
Nickel	ND	20	ug/L	EPA 200.8	07/09/08 14:35	ap	
Selenium	ND	5.0	ug/L	EPA 200.8	07/09/08 14:35	ap	
Silver	ND	10	ug/L	EPA 200.8	07/09/08 14:35	ap	
Thallium	ND	200	ug/L	EPA 200.8	07/09/08 14:35	ap	
Vanadium	ND	10	ug/L	EPA 200.8	07/09/08 14:35	ap	
Zinc	ND	10	ug/L	EPA 200.8	07/09/08 14:35	ap	

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Client Name: Victor Valley Reclamation Authority  
Contact: Gina Cloutier  
Address: 15776 Main St. Suite 3  
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Analytical Report: Page 4 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

### Laboratory Reference Number

## A8G0337-01

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
1631 SP-1	Liquid	07/02/08 11:40	07/03/08 14:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Volatile Organic Compounds by EPA 524.2							
Total Trihalomethanes	0.92	0.50	ug/L	EPA 524.2	07/08/08 13:58	JES	
Bromodichloromethane	ND	0.50	ug/L	EPA 524.2	07/08/08 13:58	JES	
Bromoform	ND	0.50	ug/L	EPA 524.2	07/08/08 13:58	JES	
Chloroform	0.92	0.50	ug/L	EPA 524.2	07/08/08 13:58	JES	
Dibromochloromethane	ND	0.50	ug/L	EPA 524.2	07/08/08 13:58	JES	
Surrogate: 1,2-Dichloroethane-d4	104	% 50-150		EPA 524.2	07/08/08 13:58	JES	
Surrogate: Bromofluorobenzene	103	% 50-150		EPA 524.2	07/08/08 13:58	JES	
Surrogate: Toluene-d8	96.4	% 50-150		EPA 524.2	07/08/08 13:58	JES	
Volatile Organic Compounds by EPA 624							
1,1,1-Trichloroethane	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
1,1,2-Trichloroethane	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
1,1-Dichloroethane	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
1,1-Dichloroethene	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
1,2-Dichlorobenzene	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
1,2-Dichloroethane	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
1,2-Dichloropropane	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
1,3-Dichlorobenzene	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
1,4-Dichlorobenzene	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
2-Chloroethylvinyl Ether	ND	5.0	ug/L	EPA 624	07/08/08 13:58	JES	NCEVE
Acrolein (EPA 8260B)	ND	10	ug/L	EPA 624	07/08/08 13:58	JES	
Acrylonitrile (EPA 8260B)	ND	10	ug/L	EPA 624	07/08/08 13:58	JES	
Benzene	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
Bromodichloromethane	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
Bromoform	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
Bromomethane	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
Carbon Tetrachloride	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
Chlorobenzene	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
Chloroethane	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	

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CA ELAP no. 1156  
EPA no. CA00102



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Environmental Laboratories *est 1906*

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

Analytical Report: Page 5 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

**Work Order Number: A8G0337**

Report Date: 24-Jul-2008

Received on Ice (Y/N): Yes Temp: 4 °C

### Laboratory Reference Number

## A8G0337-01

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
1631 SP-1	Liquid	07/02/08 11:40	07/03/08 14:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
<b>Volatile Organic Compounds by EPA 624</b>							
Chloroform	0.92	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
Chloromethane	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
cis-1,3-Dichloropropene	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
Dibromochloromethane	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
Dichlorodifluoromethane (EPA 8260)	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
Ethylbenzene	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
Methyl tert Butyl Ether	ND	5.0	ug/L	EPA 624	07/08/08 13:58	JES	
Methylene Chloride	ND	3.0	ug/L	EPA 624	07/08/08 13:58	JES	
Tetrachloroethene	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
Toluene	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
trans-1,2-Dichloroethene	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
trans-1,3-Dichloropropene	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
Trichloroethene	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
Trichlorofluoromethane	ND	5.0	ug/L	EPA 624	07/08/08 13:58	JES	
Vinyl Chloride	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
Xylenes (m+p) (EPA 8260B)	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
Xylenes (ortho) (EPA 8260B)	ND	0.50	ug/L	EPA 624	07/08/08 13:58	JES	
Surrogate: 1,2-Dichloroethane-d4	104	% 80-120		EPA 624	07/08/08 13:58	JES	
Surrogate: Bromofluorobenzene	103	% 80-141		EPA 624	07/08/08 13:58	JES	
Surrogate: Toluene-d8	96.4	% 80-120		EPA 624	07/08/08 13:58	JES	
<b>Semivolatile Organic Compounds by EPA 625</b>							
2,3,7,8-TCDD (scan)	ND	0.050	ug/L	EPA 625	07/09/08 21:59	DF	
1,2,4-Trichlorobenzene	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
1,2-Diphenylhydrazine (EPA 8270)	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
2,4,6-Trichlorophenol	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
2,4-Dichlorophenol	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
2,4-Dimethylphenol	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
2,4-Dinitrophenol	ND	50	ug/L	EPA 625	07/09/08 21:59	DF	

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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 6 of 65
Project Name: VVWRA-Lab
Project Number: [none]

Report Date: 24-Jul-2008

Work Order Number: A8G0337

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

A8G0337-01

Sample Description: 1631 SP-1
Matrix: Liquid
Sampled Date/Time: 07/02/08 11:40
Received Date/Time: 07/03/08 14:15

Table with 7 columns: Analyte(s), Result, RDL, Units, Method, Analysis Date, Analyst, Flag. Contains a list of Semivolatile Organic Compounds by EPA 625 with their respective results and RDL values.

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Client Name: Victor Valley Reclamation Authority  
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Analytical Report: Page 7 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

**Work Order Number: A8G0337**

Report Date: 24-Jul-2008

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number  
**A8G0337-01**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1631 SP-1	Liquid	07/02/08 11:40	07/03/08 14:15

<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>
Semivolatile Organic Compounds by EPA 625							
Benzo(b)fluoranthene	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
Benzo(ghi)perylene	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
Benzo(k)fluoranthene	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
Bis(2-chloroethoxy)methane	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
Bis(2-Chloroethyl)ether	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
Bis(2-chloroisopropyl)Ether	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
Bis(2-ethylhexyl)phthalate	ND	3.0	ug/L	EPA 625	07/09/08 21:59	DF	
Butyl benzyl phthalate	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
Chlordane (screen)	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
Chrysene	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
d-BHC	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
Di-n-butylphthalate	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
Di-n-octylphthalate	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
Dibenzo(a,h)anthracene	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
Dieldrin	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
Diethyl phthalate	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
Dimethyl phthalate	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
Endosulfan I	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
Endosulfan II	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
Endosulfan Sulfate	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
Endrin	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
Fluoranthene	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
Fluorene	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
Heptachlor	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
Heptachlor Epoxide	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
Hexachlorobenzene	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
Hexachlorobutadiene	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
Hexachlorocyclopentadiene	ND	50	ug/L	EPA 625	07/09/08 21:59	DF	
Hexachloroethane	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	EPA 625	07/09/08 21:59	DF	

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Analytical Report: Page 8 of 65
Project Name: VVWRA-Lab
Project Number: [none]

Report Date: 24-Jul-2008

Work Order Number: A8G0337

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

A8G0337-01

Sample Description: 1631 SP-1
Matrix: Liquid
Sampled Date/Time: 07/02/08 11:40
Received Date/Time: 07/03/08 14:15

Table with columns: Analyte(s), Result, RDL, Units, Method, Analysis Date, Analyst, Flag. Contains data for Semivolatile Organic Compounds by EPA 625, including Isophorone, n-Nitrosodi-n-propylamine, N-Nitrosodimethylamine, N-Nitrosodiphenylamine, Naphthalene, Nitrobenzene, Pentachlorophenol, Phenanthrene, Phenol, Pyrene, Toxaphene (screen), y-BHC, and various surrogate compounds.

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Analytical Report: Page 9 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

**Work Order Number: A8G0337**

Report Date: 24-Jul-2008

Received on Ice (Y/N): Yes Temp: 4 °C

### Laboratory Reference Number

**A8G0337-02**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1632 SP-2	Liquid	07/02/08 11:00	07/03/08 14:15

<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>Cations</b>							
Total Hardness	160	3.0	mg/L	SM 3120B	07/09/08 16:27	lmt	
Calcium	51	1.0	mg/L	EPA 200.7	07/09/08 16:27	lmt	
Magnesium	7.6	1.0	mg/L	EPA 200.7	07/09/08 16:27	lmt	
Sodium	110	1.0	mg/L	EPA 200.7	07/09/08 16:27	lmt	
Potassium	1.5	1.0	mg/L	EPA 200.7	07/09/08 16:27	lmt	
<b>Anions</b>							
Total Alkalinity	220	3.0	mg/L	SM 2320B	07/14/08 18:21	ctl	
Hydroxide	ND	3.0	mg/L	SM 2320B	07/14/08 18:21	ctl	
Carbonate	ND	3.0	mg/L	SM 2320B	07/14/08 18:21	ctl	
Bicarbonate	260	3.0	mg/L	SM 2320B	07/14/08 18:21	ctl	
Chloride	66	1.0	mg/L	EPA 300.0	07/04/08 00:30	CTH	
Sulfate	71	0.50	mg/L	EPA 300.0	07/04/08 00:30	CTH	
Nitrate as N	8.9	0.20	mg/L	EPA 300.0	07/04/08 00:30	CTH	
<b>Aggregate Organic Compounds</b>							
Total Organic Carbon	0.86	0.70	mg/L	SM 5310B	07/08/08 18:16	krv	
Total Petroleum Hydrocarbons	ND	1.0	mg/L	EPA 418.1	07/10/08 13:04	tdm	
Phenols	ND	0.020	mg/L	EPA 420.4	07/15/08 11:39	ms	
<b>Surfactants</b>							
MBAS	ND	0.05	mg/L	SM 5540C	07/03/08 20:00	ctl	
<b>General Inorganics</b>							
Cyanide	ND	0.005	mg/L	SM 4500CN E	07/15/08 13:34	sll	

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NELAP no. 02101CA  
CA ELAP no. 1156  
EPA no. CA00102



# E.S.BABCOCK & Sons, Inc.

Environmental Laboratories *est 1906*

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

Analytical Report: Page 10 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

### Laboratory Reference Number

## A8G0337-02

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
1632 SP-2	Liquid	07/02/08 11:00	07/03/08 14:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
<b>Nutrients</b>							
Nitrite as N	ND	0.10	mg/L	SM 4500NO2 B	07/03/08 21:36	jc	
Ammonia-Nitrogen	ND	0.10	mg/L	SM4500NH3H	07/07/08 13:03	sll	
Kjeldahl Nitrogen	ND	0.10	mg/L	EPA 351.2	07/11/08 10:01	sll	
<b>Metals and Metalloids</b>							
Antimony	ND	10	ug/L	EPA 200.8	07/09/08 14:38	ap	
Arsenic	ND	5.0	ug/L	EPA 200.8	07/09/08 14:38	ap	
Barium	62	20	ug/L	EPA 200.8	07/09/08 14:38	ap	
Beryllium	ND	10	ug/L	EPA 200.8	07/09/08 14:38	ap	
Boron	300	100	ug/L	EPA 200.7	07/09/08 16:28	lmt	
Cadmium	ND	2.0	ug/L	EPA 200.8	07/09/08 14:38	ap	
Total Chromium	ND	20	ug/L	EPA 200.8	07/09/08 14:38	ap	
Cobalt	ND	10	ug/L	EPA 200.8	07/09/08 14:38	ap	
Copper	ND	10	ug/L	EPA 200.8	07/09/08 14:38	ap	
Iron	66	50	ug/L	EPA 200.7	07/09/08 16:28	lmt	
Lead	ND	10	ug/L	EPA 200.8	07/09/08 14:38	ap	
Manganese	ND	10	ug/L	EPA 200.8	07/09/08 14:38	ap	
Mercury	ND	0.50	ug/L	EPA 200.8	07/09/08 14:38	ap	
Molybdenum	ND	10	ug/L	EPA 200.8	07/09/08 14:38	ap	
Nickel	ND	20	ug/L	EPA 200.8	07/09/08 14:38	ap	
Selenium	ND	5.0	ug/L	EPA 200.8	07/09/08 14:38	ap	
Silver	ND	10	ug/L	EPA 200.8	07/09/08 14:38	ap	
Thallium	ND	200	ug/L	EPA 200.8	07/09/08 14:38	ap	
Vanadium	ND	10	ug/L	EPA 200.8	07/09/08 14:38	ap	
Zinc	ND	10	ug/L	EPA 200.8	07/09/08 14:38	ap	

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CA ELAP no. 1156  
EPA no. CA00102



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Client Name: Victor Valley Reclamation Authority  
Contact: Gina Cloutier  
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Analytical Report: Page 11 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

### Laboratory Reference Number

## A8G0337-02

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
1632 SP-2	Liquid	07/02/08 11:00	07/03/08 14:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Volatile Organic Compounds by EPA 524.2							
Total Trihalomethanes	1.7	0.50	ug/L	EPA 524.2	07/08/08 14:29	JES	
Bromodichloromethane	ND	0.50	ug/L	EPA 524.2	07/08/08 14:29	JES	
Bromoform	ND	0.50	ug/L	EPA 524.2	07/08/08 14:29	JES	
Chloroform	1.7	0.50	ug/L	EPA 524.2	07/08/08 14:29	JES	
Dibromochloromethane	ND	0.50	ug/L	EPA 524.2	07/08/08 14:29	JES	
Surrogate: 1,2-Dichloroethane-d4	105	% 50-150		EPA 524.2	07/08/08 14:29	JES	
Surrogate: Bromofluorobenzene	102	% 50-150		EPA 524.2	07/08/08 14:29	JES	
Surrogate: Toluene-d8	97.0	% 50-150		EPA 524.2	07/08/08 14:29	JES	
Volatile Organic Compounds by EPA 624							
1,1,1-Trichloroethane	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
1,1,2-Trichloroethane	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
1,1-Dichloroethane	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
1,1-Dichloroethene	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
1,2-Dichlorobenzene	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
1,2-Dichloroethane	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
1,2-Dichloropropane	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
1,3-Dichlorobenzene	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
1,4-Dichlorobenzene	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
2-Chloroethylvinyl Ether	ND	5.0	ug/L	EPA 624	07/08/08 14:29	JES	NCEVE
Acrolein (EPA 8260B)	ND	10	ug/L	EPA 624	07/08/08 14:29	JES	
Acrylonitrile (EPA 8260B)	ND	10	ug/L	EPA 624	07/08/08 14:29	JES	
Benzene	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
Bromodichloromethane	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
Bromoform	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
Bromomethane	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
Carbon Tetrachloride	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
Chlorobenzene	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
Chloroethane	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	

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CA ELAP no. 1156  
EPA no. CA00102



# E.S. BABCOCK & Sons, Inc.

Environmental Laboratories *est 1906*

Client Name: Victor Valley Reclamation Authority  
Contact: Gina Cloutier  
Address: 15776 Main St. Suite 3  
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Analytical Report: Page 12 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

### Laboratory Reference Number

## A8G0337-02

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
1632 SP-2	Liquid	07/02/08 11:00	07/03/08 14:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Volatile Organic Compounds by EPA 624							
Chloroform	1.7	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
Chloromethane	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
cis-1,3-Dichloropropene	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
Dibromochloromethane	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
Dichlorodifluoromethane (EPA 8260)	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
Ethylbenzene	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
Methyl tert Butyl Ether	ND	5.0	ug/L	EPA 624	07/08/08 14:29	JES	
Methylene Chloride	ND	3.0	ug/L	EPA 624	07/08/08 14:29	JES	
Tetrachloroethene	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
Toluene	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
trans-1,2-Dichloroethene	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
trans-1,3-Dichloropropene	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
Trichloroethene	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
Trichlorofluoromethane	ND	5.0	ug/L	EPA 624	07/08/08 14:29	JES	
Vinyl Chloride	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
Xylenes (m+p) (EPA 8260B)	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
Xylenes (ortho) (EPA 8260B)	ND	0.50	ug/L	EPA 624	07/08/08 14:29	JES	
Surrogate: 1,2-Dichloroethane-d4	105	% 80-120		EPA 624	07/08/08 14:29	JES	
Surrogate: Bromofluorobenzene	102	% 80-141		EPA 624	07/08/08 14:29	JES	
Surrogate: Toluene-d8	97.0	% 80-120		EPA 624	07/08/08 14:29	JES	
Semivolatile Organic Compounds by EPA 625							
2,3,7,8-TCDD (scan)	ND	0.050	ug/L	EPA 625	07/09/08 22:29	DF	
1,2,4-Trichlorobenzene	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
1,2-Diphenylhydrazine (EPA 8270)	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
2,4,6-Trichlorophenol	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
2,4-Dichlorophenol	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
2,4-Dimethylphenol	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
2,4-Dinitrophenol	ND	50	ug/L	EPA 625	07/09/08 22:29	DF	

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CA ELAP no. 1156  
EPA no. CA00102



# E.S.BABCOCK&Sons,Inc.

Environmental Laboratories *est. 1906*

Client Name: Victor Valley Reclamation Authority  
Contact: Gina Cloutier  
Address: 15776 Main St. Suite 3  
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Analytical Report: Page 13 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

**Work Order Number: A8G0337**

Report Date: 24-Jul-2008

Received on Ice (Y/N): Yes Temp: 4 °C

### Laboratory Reference Number

## A8G0337-02

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1632 SP-2	Liquid	07/02/08 11:00	07/03/08 14:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Semivolatile Organic Compounds by EPA 625							
2,4-Dinitrotoluene	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
2,6-Dinitrotoluene	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
2-Chloronaphthalene	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
2-Chlorophenol	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
2-Methyl-4,6-Dinitrophenol	ND	50	ug/L	EPA 625	07/09/08 22:29	DF	
2-Nitrophenol	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
3,3'-Dichlorobenzidine	ND	20	ug/L	EPA 625	07/09/08 22:29	DF	
4,4'-DDD	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
4,4'-DDE	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
4,4'-DDT	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
4-Bromophenyl phenyl ether	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
4-Chloro-3-methylphenol	ND	20	ug/L	EPA 625	07/09/08 22:29	DF	
4-Chlorophenyl phenyl ether	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
4-Nitrophenol	ND	50	ug/L	EPA 625	07/09/08 22:29	DF	
a-BHC	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
Acenaphthene	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
Acenaphthylene	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
Aldrin	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
Anthracene	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
Aroclor 1016 (screen)	ND	50	ug/L	EPA 625	07/09/08 22:29	DF	
Aroclor 1221 (screen)	ND	50	ug/L	EPA 625	07/09/08 22:29	DF	
Aroclor 1232 (screen)	ND	50	ug/L	EPA 625	07/09/08 22:29	DF	
Aroclor 1242 (screen)	ND	50	ug/L	EPA 625	07/09/08 22:29	DF	
Aroclor 1248 (screen)	ND	50	ug/L	EPA 625	07/09/08 22:29	DF	
Aroclor 1254 (screen)	ND	50	ug/L	EPA 625	07/09/08 22:29	DF	
Aroclor 1260 (screen)	ND	50	ug/L	EPA 625	07/09/08 22:29	DF	
b-BHC	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
Benzidine	ND	50	ug/L	EPA 625	07/09/08 22:29	DF	
Benzo(a)anthracene	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
Benzo(a)pyrene	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	

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NELAP no. 02101CA  
CA ELAP no. 1156  
EPA no. CA00102



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Environmental Laboratories est 1906

Client Name: Victor Valley Reclamation Authority
Contact: Gina Cloutier
Address: 15776 Main St. Suite 3
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Analytical Report: Page 14 of 65
Project Name: VVWRA-Lab
Project Number: [none]

Report Date: 24-Jul-2008

Work Order Number: A8G0337

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

A8G0337-02

Sample Description: 1632 SP-2
Matrix: Liquid
Sampled Date/Time: 07/02/08 11:00
Received Date/Time: 07/03/08 14:15

Table with columns: Analyte(s), Result, RDL, Units, Method, Analysis Date, Analyst, Flag. Contains data for Semivolatile Organic Compounds by EPA 625, listing various chemicals and their detection results.

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Environmental Laboratories *est 1906*

Client Name: Victor Valley Reclamation Authority  
Contact: Gina Cloutier  
Address: 15776 Main St. Suite 3  
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Analytical Report: Page 15 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

### Laboratory Reference Number

## A8G0337-02

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
1632 SP-2	Liquid	07/02/08 11:00	07/03/08 14:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
<b>Semivolatile Organic Compounds by EPA 625</b>							
Isophorone	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
n-Nitrosodi-n-propylamine	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
N-Nitrosodimethylamine	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
N-Nitrosodiphenylamine	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
Naphthalene	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
Nitrobenzene	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
Pentachlorophenol	ND	50	ug/L	EPA 625	07/09/08 22:29	DF	
Phenanthrene	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
Phenol	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
Pyrene	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
Toxaphene (screen)	ND	50	ug/L	EPA 625	07/09/08 22:29	DF	
y-BHC	ND	10	ug/L	EPA 625	07/09/08 22:29	DF	
Surrogate: 2,4,6-Tribromophenol	84.4	% 40-109		EPA 625	07/09/08 22:29	DF	
Surrogate: 2-Fluorobiphenyl	69.8	% 42-110		EPA 625	07/09/08 22:29	DF	
Surrogate: 2-Fluorophenol	38.5	% 16-110		EPA 625	07/09/08 22:29	DF	
Surrogate: 4-Terphenyl-d14	83.1	% 41-112		EPA 625	07/09/08 22:29	DF	
Surrogate: Nitrobenzene-d5	70.0	% 44-110		EPA 625	07/09/08 22:29	DF	
Surrogate: Phenol-d6	25.6	% 10-110		EPA 625	07/09/08 22:29	DF	

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EPA no. CA00102





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Environmental Laboratories est 1906

Client Name: Victor Valley Reclamation Authority
Contact: Gina Cloutier
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Analytical Report: Page 16 of 65
Project Name: VVWRA-Lab
Project Number: [none]

Report Date: 24-Jul-2008

Work Order Number: A8G0337

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

A8G0337-03

Sample Description

1633 SP-3

Matrix
Liquid

Sampled Date/Time
07/02/08 10:15

Received Date/Time
07/03/08 14:15

Table with columns: Analyte(s), Result, RDL, Units, Method, Analysis Date, Analyst, Flag. Rows include Cations (Total Hardness, Calcium, Magnesium, Sodium, Potassium), Anions (Total Alkalinity, Hydroxide, Carbonate, Bicarbonate, Chloride, Sulfate, Nitrate as N), Aggregate Organic Compounds (Total Organic Carbon, Total Petroleum Hydrocarbons, Phenols), Surfactants (MBAS), and General Inorganics (Cyanide).

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**E.S.BABCOCK&Sons,Inc.**  
 Environmental Laboratories *est 1906*

Client Name: Victor Valley Reclamation Authority  
 Contact: Gina Cloutier  
 Address: 15776 Main St. Suite 3  
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Analytical Report: Page 17 of 65  
 Project Name: VVWRA-Lab  
 Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number  
**A8G0337-03**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1633 SP-3	Liquid	07/02/08 10:15	07/03/08 14:15

<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>Nutrients</b>							
Nitrite as N	ND	0.10	mg/L	SM 4500NO2 B	07/03/08 21:36	jc	
Ammonia-Nitrogen	ND	0.10	mg/L	SM4500NH3H	07/07/08 13:05	sll	
Kjeldahl Nitrogen	ND	0.10	mg/L	EPA 351.2	07/11/08 10:03	sll	
<b>Metals and Metalloids</b>							
Antimony	ND	10	ug/L	EPA 200.8	07/09/08 14:42	ap	
Arsenic	ND	5.0	ug/L	EPA 200.8	07/09/08 14:42	ap	
Barium	28	20	ug/L	EPA 200.8	07/09/08 14:42	ap	
Beryllium	ND	10	ug/L	EPA 200.8	07/09/08 14:42	ap	
Boron	280	100	ug/L	EPA 200.7	07/09/08 16:30	lmt	
Cadmium	ND	2.0	ug/L	EPA 200.8	07/09/08 14:42	ap	
Total Chromium	ND	20	ug/L	EPA 200.8	07/09/08 14:42	ap	
Cobalt	ND	10	ug/L	EPA 200.8	07/09/08 14:42	ap	
Copper	ND	10	ug/L	EPA 200.8	07/09/08 14:42	ap	
Iron	ND	50	ug/L	EPA 200.7	07/09/08 16:30	lmt	
Lead	ND	10	ug/L	EPA 200.8	07/09/08 14:42	ap	
Manganese	ND	10	ug/L	EPA 200.8	07/09/08 14:42	ap	
Mercury	ND	0.50	ug/L	EPA 200.8	07/09/08 14:42	ap	
Molybdenum	ND	10	ug/L	EPA 200.8	07/09/08 14:42	ap	
Nickel	ND	20	ug/L	EPA 200.8	07/09/08 14:42	ap	
Selenium	ND	5.0	ug/L	EPA 200.8	07/09/08 14:42	ap	
Silver	ND	10	ug/L	EPA 200.8	07/09/08 14:42	ap	
Thallium	ND	200	ug/L	EPA 200.8	07/09/08 14:42	ap	
Vanadium	11	10	ug/L	EPA 200.8	07/09/08 14:42	ap	
Zinc	ND	10	ug/L	EPA 200.8	07/09/08 14:42	ap	

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NELAP no. 02101CA  
 CA ELAP no. 1156  
 EPA no. CA00102



# E.S.BABCOCK & Sons, Inc.

Environmental Laboratories *est. 1906*

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

Analytical Report: Page 18 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

**Work Order Number: A8G0337**

Report Date: 24-Jul-2008

Received on Ice (Y/N): Yes Temp: 4 °C

### Laboratory Reference Number

## A8G0337-03

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
1633 SP-3	Liquid	07/02/08 10:15	07/03/08 14:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Volatile Organic Compounds by EPA 524.2							
Total Trihalomethanes	1.9	0.50	ug/L	EPA 524.2	07/08/08 15:01	JES	
Bromodichloromethane	ND	0.50	ug/L	EPA 524.2	07/08/08 15:01	JES	
Bromoform	ND	0.50	ug/L	EPA 524.2	07/08/08 15:01	JES	
Chloroform	1.9	0.50	ug/L	EPA 524.2	07/08/08 15:01	JES	
Dibromochloromethane	ND	0.50	ug/L	EPA 524.2	07/08/08 15:01	JES	
Surrogate: 1,2-Dichloroethane-d4	106	% 50-150		EPA 524.2	07/08/08 15:01	JES	
Surrogate: Bromofluorobenzene	103	% 50-150		EPA 524.2	07/08/08 15:01	JES	
Surrogate: Toluene-d8	96.4	% 50-150		EPA 524.2	07/08/08 15:01	JES	
Volatile Organic Compounds by EPA 624							
1,1,1-Trichloroethane	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
1,1,2-Trichloroethane	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
1,1-Dichloroethane	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
1,1-Dichloroethene	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
1,2-Dichlorobenzene	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
1,2-Dichloroethane	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
1,2-Dichloropropane	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
1,3-Dichlorobenzene	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
1,4-Dichlorobenzene	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
2-Chloroethylvinyl Ether	ND	5.0	ug/L	EPA 624	07/08/08 15:01	JES	NCEVE
Acrolein (EPA 8260B)	ND	10	ug/L	EPA 624	07/08/08 15:01	JES	
Acrylonitrile (EPA 8260B)	ND	10	ug/L	EPA 624	07/08/08 15:01	JES	
Benzene	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
Bromodichloromethane	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
Bromoform	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
Bromomethane	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
Carbon Tetrachloride	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
Chlorobenzene	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
Chloroethane	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	

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CA ELAP no. 1156  
EPA no. CA00102



# E.S.BABCOCK&Sons,Inc.

Environmental Laboratories *est. 1906*

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

Analytical Report: Page 19 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

### Laboratory Reference Number

## A8G0337-03

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
1633 SP-3	Liquid	07/02/08 10:15	07/03/08 14:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
<b>Volatile Organic Compounds by EPA 624</b>							
Chloroform	1.9	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
Chloromethane	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
cis-1,3-Dichloropropene	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
Dibromochloromethane	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
Dichlorodifluoromethane (EPA 8260)	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
Ethylbenzene	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
Methyl tert Butyl Ether	ND	5.0	ug/L	EPA 624	07/08/08 15:01	JES	
Methylene Chloride	ND	3.0	ug/L	EPA 624	07/08/08 15:01	JES	
Tetrachloroethene	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
Toluene	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
trans-1,2-Dichloroethene	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
trans-1,3-Dichloropropene	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
Trichloroethene	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
Trichlorofluoromethane	ND	5.0	ug/L	EPA 624	07/08/08 15:01	JES	
Vinyl Chloride	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
Xylenes (m+p) (EPA 8260B)	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
Xylenes (ortho) (EPA 8260B)	ND	0.50	ug/L	EPA 624	07/08/08 15:01	JES	
Surrogate: 1,2-Dichloroethane-d4	106	% 80-120		EPA 624	07/08/08 15:01	JES	
Surrogate: Bromofluorobenzene	103	% 80-141		EPA 624	07/08/08 15:01	JES	
Surrogate: Toluene-d8	96.4	% 80-120		EPA 624	07/08/08 15:01	JES	
<b>Semivolatile Organic Compounds by EPA 625</b>							
2,3,7,8-TCDD (scan)	ND	0.050	ug/L	EPA 625	07/09/08 22:58	DF	
1,2,4-Trichlorobenzene	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
1,2-Diphenylhydrazine (EPA 8270)	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
2,4,6-Trichlorophenol	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
2,4-Dichlorophenol	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
2,4-Dimethylphenol	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
2,4-Dinitrophenol	ND	50	ug/L	EPA 625	07/09/08 22:58	DF	

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CA ELAP no. 1156  
EPA no. CA00102



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Environmental Laboratories *est 1906*

Client Name: Victor Valley Reclamation Authority  
Contact: Gina Cloutier  
Address: 15776 Main St. Suite 3  
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Analytical Report: Page 20 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

### Laboratory Reference Number

**A8G0337-03**

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
1633 SP-3	Liquid	07/02/08 10:15	07/03/08 14:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Semivolatile Organic Compounds by EPA 625							
2,4-Dinitrotoluene	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
2,6-Dinitrotoluene	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
2-Chloronaphthalene	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
2-Chlorophenol	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
2-Methyl-4,6-Dinitrophenol	ND	50	ug/L	EPA 625	07/09/08 22:58	DF	
2-Nitrophenol	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
3,3'-Dichlorobenzidine	ND	20	ug/L	EPA 625	07/09/08 22:58	DF	
4,4'-DDD	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
4,4'-DDE	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
4,4'-DDT	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
4-Bromophenyl phenyl ether	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
4-Chloro-3-methylphenol	ND	20	ug/L	EPA 625	07/09/08 22:58	DF	
4-Chlorophenyl phenyl ether	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
4-Nitrophenol	ND	50	ug/L	EPA 625	07/09/08 22:58	DF	
a-BHC	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Acenaphthene	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Acenaphthylene	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Aldrin	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Anthracene	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Aroclor 1016 (screen)	ND	50	ug/L	EPA 625	07/09/08 22:58	DF	
Aroclor 1221 (screen)	ND	50	ug/L	EPA 625	07/09/08 22:58	DF	
Aroclor 1232 (screen)	ND	50	ug/L	EPA 625	07/09/08 22:58	DF	
Aroclor 1242 (screen)	ND	50	ug/L	EPA 625	07/09/08 22:58	DF	
Aroclor 1248 (screen)	ND	50	ug/L	EPA 625	07/09/08 22:58	DF	
Aroclor 1254 (screen)	ND	50	ug/L	EPA 625	07/09/08 22:58	DF	
Aroclor 1260 (screen)	ND	50	ug/L	EPA 625	07/09/08 22:58	DF	
b-BHC	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Benzidine	ND	50	ug/L	EPA 625	07/09/08 22:58	DF	
Benzo(a)anthracene	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Benzo(a)pyrene	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	

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CA ELAP no. 1156  
EPA no. CA00102



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Environmental Laboratories *est 1906*

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

Analytical Report: Page 21 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

### Laboratory Reference Number

**A8G0337-03**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1633 SP-3	Liquid	07/02/08 10:15	07/03/08 14:15

<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>
Semivolatile Organic Compounds by EPA 625							
Benzo(b)fluoranthene	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Benzo(ghi)perylene	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Benzo(k)fluoranthene	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Bis(2-chloroethoxy)methane	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Bis(2-Chloroethyl)ether	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Bis(2-chloroisopropyl)Ether	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Bis(2-ethylhexyl)phthalate	ND	3.0	ug/L	EPA 625	07/09/08 22:58	DF	
Butyl benzyl phthalate	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Chlordane (screen)	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Chrysene	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
d-BHC	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Di-n-butylphthalate	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Di-n-octylphthalate	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Dibenzo(a,h)anthracene	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Dieldrin	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Diethyl phthalate	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Dimethyl phthalate	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Endosulfan I	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Endosulfan II	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Endosulfan Sulfate	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Endrin	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Fluoranthene	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Fluorene	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Heptachlor	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Heptachlor Epoxide	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Hexachlorobenzene	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Hexachlorobutadiene	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Hexachlorocyclopentadiene	ND	50	ug/L	EPA 625	07/09/08 22:58	DF	
Hexachloroethane	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	

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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 22 of 65  
 Project Name: VVWRA-Lab  
 Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

**A8G0337-03**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1633 SP-3	Liquid	07/02/08 10:15	07/03/08 14:15

<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>Semivolatile Organic Compounds by EPA 625</b>							
Isophorone	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
n-Nitrosodi-n-propylamine	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
N-Nitrosodimethylamine	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
N-Nitrosodiphenylamine	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Naphthalene	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Nitrobenzene	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Pentachlorophenol	ND	50	ug/L	EPA 625	07/09/08 22:58	DF	
Phenanthrene	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Phenol	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Pyrene	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Toxaphene (screen)	ND	50	ug/L	EPA 625	07/09/08 22:58	DF	
y-BHC	ND	10	ug/L	EPA 625	07/09/08 22:58	DF	
Surrogate: 2,4,6-Tribromophenol	76.4	% 40-109		EPA 625	07/09/08 22:58	DF	
Surrogate: 2-Fluorobiphenyl	65.5	% 42-110		EPA 625	07/09/08 22:58	DF	
Surrogate: 2-Fluorophenol	30.6	% 16-110		EPA 625	07/09/08 22:58	DF	
Surrogate: 4-Terphenyl-d14	71.0	% 41-112		EPA 625	07/09/08 22:58	DF	
Surrogate: Nitrobenzene-d5	68.7	% 44-110		EPA 625	07/09/08 22:58	DF	
Surrogate: Phenol-d6	22.3	% 10-110		EPA 625	07/09/08 22:58	DF	

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**E.S.BABCOCK&Sons,Inc.**

Environmental Laboratories *est 1906*

Client Name: Victor Valley Reclamation Authority  
Contact: Gina Cloutier  
Address: 15776 Main St. Suite 3  
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Analytical Report: Page 23 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

**A8G0337-04**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1634 SP-4	Liquid	07/02/08 09:35	07/03/08 14:15

<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>Cations</b>							
Total Hardness	120	3.0	mg/L	SM 3120B	07/09/08 16:36	lmt	
Calcium	39	1.0	mg/L	EPA 200.7	07/09/08 16:36	lmt	
Magnesium	5.3	1.0	mg/L	EPA 200.7	07/09/08 16:36	lmt	
Sodium	78	1.0	mg/L	EPA 200.7	07/09/08 16:36	lmt	
Potassium	2.2	1.0	mg/L	EPA 200.7	07/09/08 16:36	lmt	
<b>Anions</b>							
Total Alkalinity	140	3.0	mg/L	SM 2320B	07/14/08 18:21	ctl	
Hydroxide	ND	3.0	mg/L	SM 2320B	07/14/08 18:21	ctl	
Carbonate	ND	3.0	mg/L	SM 2320B	07/14/08 18:21	ctl	
Bicarbonate	170	3.0	mg/L	SM 2320B	07/14/08 18:21	ctl	
Chloride	60	1.0	mg/L	EPA 300.0	07/04/08 00:50	CTH	
Sulfate	39	0.50	mg/L	EPA 300.0	07/04/08 00:50	CTH	
Nitrate as N	9.6	0.20	mg/L	EPA 300.0	07/04/08 00:50	CTH	
<b>Aggregate Organic Compounds</b>							
Total Organic Carbon	0.88	0.70	mg/L	SM 5310B	07/08/08 18:16	krv	
Total Petroleum Hydrocarbons	1.4	1.0	mg/L	EPA 418.1	07/10/08 13:04	tdm	
Phenols	ND	0.020	mg/L	EPA 420.4	07/15/08 11:43	ms	
<b>Surfactants</b>							
MBAS	ND	0.05	mg/L	SM 5540C	07/03/08 20:00	ctl	
<b>General Inorganics</b>							
Cyanide	ND	0.005	mg/L	SM 4500CN E	07/15/08 13:37	sl	

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NELAP no. 02101CA  
CA ELAP no. 1156  
EPA no. CA00102





**E.S.BABCOCK&Sons,Inc.**

Environmental Laboratories *est. 1906*

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

Analytical Report: Page 24 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

**A8G0337-04**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1634 SP-4	Liquid	07/02/08 09:35	07/03/08 14:15

<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>Nutrients</b>							
Nitrite as N	ND	0.10	mg/L	SM 4500NO2 B	07/03/08 21:36	jc	
Ammonia-Nitrogen	ND	0.10	mg/L	SM4500NH3H	07/07/08 13:07	sll	
Kjeldahl Nitrogen	ND	0.10	mg/L	EPA 351.2	07/15/08 18:48	sll	
<b>Metals and Metalloids</b>							
Antimony	ND	10	ug/L	EPA 200.8	07/09/08 14:46	ap	
Arsenic	ND	5.0	ug/L	EPA 200.8	07/09/08 14:46	ap	
Barium	100	20	ug/L	EPA 200.8	07/09/08 14:46	ap	
Beryllium	ND	10	ug/L	EPA 200.8	07/09/08 14:46	ap	
Boron	250	100	ug/L	EPA 200.7	07/09/08 16:36	lmt	
Cadmium	ND	2.0	ug/L	EPA 200.8	07/09/08 14:46	ap	
Total Chromium	ND	20	ug/L	EPA 200.8	07/09/08 14:46	ap	
Cobalt	ND	10	ug/L	EPA 200.8	07/09/08 14:46	ap	
Copper	ND	10	ug/L	EPA 200.8	07/09/08 14:46	ap	
Iron	200	50	ug/L	EPA 200.7	07/09/08 16:36	lmt	
Lead	ND	10	ug/L	EPA 200.8	07/09/08 14:46	ap	
Manganese	ND	10	ug/L	EPA 200.8	07/09/08 14:46	ap	
Mercury	ND	0.50	ug/L	EPA 200.8	07/09/08 14:46	ap	
Molybdenum	ND	10	ug/L	EPA 200.8	07/09/08 14:46	ap	
Nickel	ND	20	ug/L	EPA 200.8	07/09/08 14:46	ap	
Selenium	ND	5.0	ug/L	EPA 200.8	07/09/08 14:46	ap	
Silver	ND	10	ug/L	EPA 200.8	07/09/08 14:46	ap	
Thallium	ND	200	ug/L	EPA 200.8	07/09/08 14:46	ap	
Vanadium	12	10	ug/L	EPA 200.8	07/09/08 14:46	ap	
Zinc	ND	10	ug/L	EPA 200.8	07/09/08 14:46	ap	

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Client Name: Victor Valley Reclamation Authority
Contact: Gina Cloutier
Address: 15776 Main St. Suite 3
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Analytical Report: Page 25 of 65
Project Name: VVWRA-Lab
Project Number: [none]

Report Date: 24-Jul-2008

Work Order Number: A8G0337

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

A8G0337-04

Sample Description: 1634 SP-4
Matrix: Liquid
Sampled Date/Time: 07/02/08 09:35
Received Date/Time: 07/03/08 14:15

Table with columns: Analyte(s), Result, RDL, Units, Method, Analysis Date, Analyst, Flag. Contains data for Volatile Organic Compounds by EPA 524.2 and EPA 624.

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Client Name: Victor Valley Reclamation Authority  
Contact: Gina Cloutier  
Address: 15776 Main St. Suite 3  
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Analytical Report: Page 26 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

**Work Order Number: A8G0337**

Report Date: 24-Jul-2008

Received on Ice (Y/N): Yes Temp: 4 °C

### Laboratory Reference Number

## A8G0337-04

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
1634 SP-4	Liquid	07/02/08 09:35	07/03/08 14:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
<b>Volatile Organic Compounds by EPA 624</b>							
Chloroform	2.0	0.50	ug/L	EPA 624	07/08/08 15:32	JES	
Chloromethane	ND	0.50	ug/L	EPA 624	07/08/08 15:32	JES	
cis-1,3-Dichloropropene	ND	0.50	ug/L	EPA 624	07/08/08 15:32	JES	
Dibromochloromethane	ND	0.50	ug/L	EPA 624	07/08/08 15:32	JES	
Dichlorodifluoromethane (EPA 8260)	ND	0.50	ug/L	EPA 624	07/08/08 15:32	JES	
Ethylbenzene	ND	0.50	ug/L	EPA 624	07/08/08 15:32	JES	
Methyl tert Butyl Ether	ND	5.0	ug/L	EPA 624	07/08/08 15:32	JES	
Methylene Chloride	ND	3.0	ug/L	EPA 624	07/08/08 15:32	JES	
Tetrachloroethene	ND	0.50	ug/L	EPA 624	07/08/08 15:32	JES	
Toluene	ND	0.50	ug/L	EPA 624	07/08/08 15:32	JES	
trans-1,2-Dichloroethene	ND	0.50	ug/L	EPA 624	07/08/08 15:32	JES	
trans-1,3-Dichloropropene	ND	0.50	ug/L	EPA 624	07/08/08 15:32	JES	
Trichloroethene	ND	0.50	ug/L	EPA 624	07/08/08 15:32	JES	
Trichlorofluoromethane	ND	5.0	ug/L	EPA 624	07/08/08 15:32	JES	
Vinyl Chloride	ND	0.50	ug/L	EPA 624	07/08/08 15:32	JES	
Xylenes (m+p) (EPA 8260B)	ND	0.50	ug/L	EPA 624	07/08/08 15:32	JES	
Xylenes (ortho) (EPA 8260B)	ND	0.50	ug/L	EPA 624	07/08/08 15:32	JES	
Surrogate: 1,2-Dichloroethane-d4	105	% 80-120		EPA 624	07/08/08 15:32	JES	
Surrogate: Bromofluorobenzene	100	% 80-141		EPA 624	07/08/08 15:32	JES	
Surrogate: Toluene-d8	97.8	% 80-120		EPA 624	07/08/08 15:32	JES	
<b>Semivolatile Organic Compounds by EPA 625</b>							
2,3,7,8-TCDD (scan)	ND	0.050	ug/L	EPA 625	07/09/08 23:27	DF	
1,2,4-Trichlorobenzene	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
1,2-Diphenylhydrazine (EPA 8270)	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
2,4,6-Trichlorophenol	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
2,4-Dichlorophenol	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
2,4-Dimethylphenol	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
2,4-Dinitrophenol	ND	50	ug/L	EPA 625	07/09/08 23:27	DF	

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# E.S.BABCOCK&Sons,Inc.

Environmental Laboratories *est 1906*

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

Analytical Report: Page 27 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

### Laboratory Reference Number

**A8G0337-04**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1634 SP-4	Liquid	07/02/08 09:35	07/03/08 14:15

<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>
Semivolatile Organic Compounds by EPA 625							
2,4-Dinitrotoluene	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
2,6-Dinitrotoluene	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
2-Chloronaphthalene	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
2-Chlorophenol	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
2-Methyl-4,6-Dinitrophenol	ND	50	ug/L	EPA 625	07/09/08 23:27	DF	
2-Nitrophenol	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
3,3'-Dichlorobenzidine	ND	20	ug/L	EPA 625	07/09/08 23:27	DF	
4,4'-DDD	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
4,4'-DDE	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
4,4'-DDT	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
4-Bromophenyl phenyl ether	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
4-Chloro-3-methylphenol	ND	20	ug/L	EPA 625	07/09/08 23:27	DF	
4-Chlorophenyl phenyl ether	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
4-Nitrophenol	ND	50	ug/L	EPA 625	07/09/08 23:27	DF	
a-BHC	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Acenaphthene	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Acenaphthylene	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Aldrin	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Anthracene	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Aroclor 1016 (screen)	ND	50	ug/L	EPA 625	07/09/08 23:27	DF	
Aroclor 1221 (screen)	ND	50	ug/L	EPA 625	07/09/08 23:27	DF	
Aroclor 1232 (screen)	ND	50	ug/L	EPA 625	07/09/08 23:27	DF	
Aroclor 1242 (screen)	ND	50	ug/L	EPA 625	07/09/08 23:27	DF	
Aroclor 1248 (screen)	ND	50	ug/L	EPA 625	07/09/08 23:27	DF	
Aroclor 1254 (screen)	ND	50	ug/L	EPA 625	07/09/08 23:27	DF	
Aroclor 1260 (screen)	ND	50	ug/L	EPA 625	07/09/08 23:27	DF	
b-BHC	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Benzidine	ND	50	ug/L	EPA 625	07/09/08 23:27	DF	
Benzo(a)anthracene	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Benzo(a)pyrene	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	

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CA ELAP no. 1156  
EPA no. CA00102



# E.S.BABCOCK&Sons,Inc.

Environmental Laboratories *est. 1906*

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

Analytical Report: Page 28 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

**Work Order Number: A8G0337**

Report Date: 24-Jul-2008

Received on Ice (Y/N): Yes Temp: 4 °C

### Laboratory Reference Number

**A8G0337-04**

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
1634 SP-4	Liquid	07/02/08 09:35	07/03/08 14:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Semivolatile Organic Compounds by EPA 625							
Benzo(b)fluoranthene	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Benzo(ghi)perylene	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Benzo(k)fluoranthene	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Bis(2-chloroethoxy)methane	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Bis(2-Chloroethyl)ether	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Bis(2-chloroisopropyl)Ether	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Bis(2-ethylhexyl)phthalate	ND	3.0	ug/L	EPA 625	07/09/08 23:27	DF	
Butyl benzyl phthalate	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Chlordane (screen)	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Chrysene	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
d-BHC	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Di-n-butylphthalate	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Di-n-octylphthalate	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Dibenzo(a,h)anthracene	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Dieldrin	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Diethyl phthalate	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Dimethyl phthalate	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Endosulfan I	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Endosulfan II	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Endosulfan Sulfate	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Endrin	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Fluoranthene	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Fluorene	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Heptachlor	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Heptachlor Epoxide	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Hexachlorobenzene	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Hexachlorobutadiene	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Hexachlorocyclopentadiene	ND	50	ug/L	EPA 625	07/09/08 23:27	DF	
Hexachloroethane	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	EPA 625	07/09/08 23:27	DF	

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Environmental Laboratories *est. 1906*

Client Name: Victor Valley Reclamation Authority
Contact: Gina Cloutier
Address: 15776 Main St. Suite 3
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Analytical Report: Page 29 of 65
Project Name: VVWRA-Lab
Project Number: [none]

Report Date: 24-Jul-2008

Work Order Number: A8G0337

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

A8G0337-04

Sample Description: 1634 SP-4
Matrix: Liquid
Sampled Date/Time: 07/02/08 09:35
Received Date/Time: 07/03/08 14:15

Table with 9 columns: Analyte(s), Result, RDL, Units, Method, Analysis Date, Analyst, Flag. Rows include Semivolatile Organic Compounds by EPA 625 and various surrogate compounds like 2,4,6-Tribromophenol.

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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 30 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

**Work Order Number: A8G0337**

Report Date: 24-Jul-2008

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

**A8G0337-05**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1635 NW-2	Liquid	07/02/08 13:30	07/03/08 14:15

<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>Cations</b>							
Total Hardness	120	3.0	mg/L	SM 3120B	07/09/08 16:38	lmt	
Calcium	38	1.0	mg/L	EPA 200.7	07/09/08 16:38	lmt	
Magnesium	5.5	1.0	mg/L	EPA 200.7	07/09/08 16:38	lmt	
Sodium	100	1.0	mg/L	EPA 200.7	07/09/08 16:38	lmt	
Potassium	2.0	1.0	mg/L	EPA 200.7	07/09/08 16:38	lmt	
<b>Anions</b>							
Total Alkalinity	170	3.0	mg/L	SM 2320B	07/14/08 18:21	ctl	
Hydroxide	ND	3.0	mg/L	SM 2320B	07/14/08 18:21	ctl	
Carbonate	ND	3.0	mg/L	SM 2320B	07/14/08 18:21	ctl	
Bicarbonate	200	3.0	mg/L	SM 2320B	07/14/08 18:21	ctl	
Chloride	65	1.0	mg/L	EPA 300.0	07/04/08 00:59	CTH	
Sulfate	55	0.50	mg/L	EPA 300.0	07/04/08 00:59	CTH	
Nitrate as N	6.1	0.20	mg/L	EPA 300.0	07/04/08 00:59	CTH	
<b>Aggregate Organic Compounds</b>							
Total Organic Carbon	1.4	0.70	mg/L	SM 5310B	07/08/08 18:16	krv	
Total Petroleum Hydrocarbons	ND	1.0	mg/L	EPA 418.1	07/10/08 13:04	tdm	
Phenols	ND	0.020	mg/L	EPA 420.4	07/15/08 11:44	ms	
<b>Surfactants</b>							
MBAS	0.05	0.05	mg/L	SM 5540C	07/03/08 20:00	ctl	
<b>General Inorganics</b>							
Cyanide	ND	0.005	mg/L	SM 4500CN E	07/15/08 13:39	sl	

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Environmental Laboratories est 1906

Client Name: Victor Valley Reclamation Authority
Contact: Gina Cloutier
Address: 15776 Main St. Suite 3
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Analytical Report: Page 31 of 65
Project Name: VVWRA-Lab
Project Number: [none]

Work Order Number: A8G0337

Report Date: 24-Jul-2008

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

A8G0337-05

Sample Description: 1635 NW-2
Matrix: Liquid
Sampled Date/Time: 07/02/08 13:30
Received Date/Time: 07/03/08 14:15

Table with columns: Analyte(s), Result, RDL, Units, Method, Analysis Date, Analyst, Flag. Rows include Nutrients (Nitrite as N, Ammonia-Nitrogen, Kjeldahl Nitrogen) and Metals and Metalloids (Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Total Chromium, Cobalt, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc).

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Environmental Laboratories *est 1906*

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

Analytical Report: Page 32 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

### Laboratory Reference Number

## A8G0337-05

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
1635 NW-2	Liquid	07/02/08 13:30	07/03/08 14:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
<b>Volatile Organic Compounds by EPA 524.2</b>							
Total Trihalomethanes	ND	0.50	ug/L	EPA 524.2	07/08/08 16:04	JES	
Bromodichloromethane	ND	0.50	ug/L	EPA 524.2	07/08/08 16:04	JES	
Bromoform	ND	0.50	ug/L	EPA 524.2	07/08/08 16:04	JES	
Chloroform	ND	0.50	ug/L	EPA 524.2	07/08/08 16:04	JES	
Dibromochloromethane	ND	0.50	ug/L	EPA 524.2	07/08/08 16:04	JES	
Surrogate: 1,2-Dichloroethane-d4	103	% 50-150		EPA 524.2	07/08/08 16:04	JES	
Surrogate: Bromofluorobenzene	102	% 50-150		EPA 524.2	07/08/08 16:04	JES	
Surrogate: Toluene-d8	96.8	% 50-150		EPA 524.2	07/08/08 16:04	JES	
<b>Volatile Organic Compounds by EPA 624</b>							
1,1,1-Trichloroethane	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
1,1,2-Trichloroethane	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
1,1-Dichloroethane	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
1,1-Dichloroethene	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
1,2-Dichlorobenzene	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
1,2-Dichloroethane	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
1,2-Dichloropropane	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
1,3-Dichlorobenzene	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
1,4-Dichlorobenzene	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
2-Chloroethylvinyl Ether	ND	5.0	ug/L	EPA 624	07/08/08 16:04	JES	NCEVE
Acrolein (EPA 8260B)	ND	10	ug/L	EPA 624	07/08/08 16:04	JES	
Acrylonitrile (EPA 8260B)	ND	10	ug/L	EPA 624	07/08/08 16:04	JES	
Benzene	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
Bromodichloromethane	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
Bromoform	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
Bromomethane	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
Carbon Tetrachloride	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
Chlorobenzene	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
Chloroethane	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	

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CA ELAP no. 1156  
EPA no. CA00102



# E.S.BABCOCK&Sons,Inc.

Environmental Laboratories *est 1906*

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

Analytical Report: Page 33 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

**Work Order Number: A8G0337**

Report Date: 24-Jul-2008

Received on Ice (Y/N): Yes Temp: 4 °C

### Laboratory Reference Number

## A8G0337-05

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
1635 NW-2	Liquid	07/02/08 13:30	07/03/08 14:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
<b>Volatile Organic Compounds by EPA 624</b>							
Chloroform	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
Chloromethane	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
cis-1,3-Dichloropropene	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
Dibromochloromethane	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
Dichlorodifluoromethane (EPA 8260)	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
Ethylbenzene	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
Methyl tert Butyl Ether	ND	5.0	ug/L	EPA 624	07/08/08 16:04	JES	
Methylene Chloride	ND	3.0	ug/L	EPA 624	07/08/08 16:04	JES	
Tetrachloroethene	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
Toluene	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
trans-1,2-Dichloroethene	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
trans-1,3-Dichloropropene	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
Trichloroethene	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
Trichlorofluoromethane	ND	5.0	ug/L	EPA 624	07/08/08 16:04	JES	
Vinyl Chloride	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
Xylenes (m+p) (EPA 8260B)	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
Xylenes (ortho) (EPA 8260B)	ND	0.50	ug/L	EPA 624	07/08/08 16:04	JES	
Surrogate: 1,2-Dichloroethane-d4	103	% 80-120		EPA 624	07/08/08 16:04	JES	
Surrogate: Bromofluorobenzene	102	% 80-141		EPA 624	07/08/08 16:04	JES	
Surrogate: Toluene-d8	96.8	% 80-120		EPA 624	07/08/08 16:04	JES	
<b>Semivolatile Organic Compounds by EPA 625</b>							
2,3,7,8-TCDD (scan)	ND	0.050	ug/L	EPA 625	07/09/08 23:57	DF	
1,2,4-Trichlorobenzene	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
1,2-Diphenylhydrazine (EPA 8270)	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
2,4,6-Trichlorophenol	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
2,4-Dichlorophenol	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
2,4-Dimethylphenol	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
2,4-Dinitrophenol	ND	50	ug/L	EPA 625	07/09/08 23:57	DF	

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CA ELAP no. 1156

EPA no. CA00102



# E.S.BABCOCK&Sons,Inc.

Environmental Laboratories *est 1906*

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

Analytical Report: Page 34 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

### Laboratory Reference Number

**A8G0337-05**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1635 NW-2	Liquid	07/02/08 13:30	07/03/08 14:15

<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>
Semivolatile Organic Compounds by EPA 625							
2,4-Dinitrotoluene	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
2,6-Dinitrotoluene	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
2-Chloronaphthalene	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
2-Chlorophenol	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
2-Methyl-4,6-Dinitrophenol	ND	50	ug/L	EPA 625	07/09/08 23:57	DF	
2-Nitrophenol	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
3,3'-Dichlorobenzidine	ND	20	ug/L	EPA 625	07/09/08 23:57	DF	
4,4'-DDD	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
4,4'-DDE	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
4,4'-DDT	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
4-Bromophenyl phenyl ether	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
4-Chloro-3-methylphenol	ND	20	ug/L	EPA 625	07/09/08 23:57	DF	
4-Chlorophenyl phenyl ether	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
4-Nitrophenol	ND	50	ug/L	EPA 625	07/09/08 23:57	DF	
a-BHC	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Acenaphthene	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Acenaphthylene	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Aldrin	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Anthracene	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Aroclor 1016 (screen)	ND	50	ug/L	EPA 625	07/09/08 23:57	DF	
Aroclor 1221 (screen)	ND	50	ug/L	EPA 625	07/09/08 23:57	DF	
Aroclor 1232 (screen)	ND	50	ug/L	EPA 625	07/09/08 23:57	DF	
Aroclor 1242 (screen)	ND	50	ug/L	EPA 625	07/09/08 23:57	DF	
Aroclor 1248 (screen)	ND	50	ug/L	EPA 625	07/09/08 23:57	DF	
Aroclor 1254 (screen)	ND	50	ug/L	EPA 625	07/09/08 23:57	DF	
Aroclor 1260 (screen)	ND	50	ug/L	EPA 625	07/09/08 23:57	DF	
b-BHC	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Benzidine	ND	50	ug/L	EPA 625	07/09/08 23:57	DF	
Benzo(a)anthracene	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Benzo(a)pyrene	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	

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CA ELAP no. 1156  
EPA no. CA00102



**E.S.BABCOCK & Sons, Inc.**  
 Environmental Laboratories *est 1906*

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

Analytical Report: Page 35 of 65  
 Project Name: VVWRA-Lab  
 Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

**A8G0337-05**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1635 NW-2	Liquid	07/02/08 13:30	07/03/08 14:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Semivolatile Organic Compounds by EPA 625							
Benzo(b)fluoranthene	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Benzo(ghi)perylene	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Benzo(k)fluoranthene	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Bis(2-chloroethoxy)methane	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Bis(2-Chloroethyl)ether	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Bis(2-chloroisopropyl)Ether	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Bis(2-ethylhexyl)phthalate	ND	3.0	ug/L	EPA 625	07/09/08 23:57	DF	
Butyl benzyl phthalate	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Chlordane (screen)	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Chrysene	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
d-BHC	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Di-n-butylphthalate	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Di-n-octylphthalate	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Dibenzo(a,h)anthracene	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Dieldrin	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Diethyl phthalate	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Dimethyl phthalate	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Endosulfan I	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Endosulfan II	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Endosulfan Sulfate	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Endrin	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Fluoranthene	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Fluorene	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Heptachlor	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Heptachlor Epoxide	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Hexachlorobenzene	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Hexachlorobutadiene	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Hexachlorocyclopentadiene	ND	50	ug/L	EPA 625	07/09/08 23:57	DF	
Hexachloroethane	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	EPA 625	07/09/08 23:57	DF	

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 CA ELAP no. 1156  
 EPA no. CA00102



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Environmental Laboratories est. 1906

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

Analytical Report: Page 36 of 65
Project Name: VVWRA-Lab
Project Number: [none]

Work Order Number: A8G0337

Report Date: 24-Jul-2008

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

A8G0337-05

Sample Description: 1635 NW-2
Matrix: Liquid
Sampled Date/Time: 07/02/08 13:30
Received Date/Time: 07/03/08 14:15

Table with columns: Analyte(s), Result, RDL, Units, Method, Analysis Date, Analyst, Flag. Rows include Semivolatle Organic Compounds by EPA 625 and various chemical compounds like Isophorone, n-Nitrosodi-n-propylamine, etc.

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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 37 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

**A8G0337-06**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1636 NW-3	Liquid	07/02/08 08:30	07/03/08 14:15

<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>Cations</b>							
Total Hardness	150	3.0	mg/L	SM 3120B	07/09/08 16:40	lmt	
Calcium	50	1.0	mg/L	EPA 200.7	07/09/08 16:40	lmt	
Magnesium	7.2	1.0	mg/L	EPA 200.7	07/09/08 16:40	lmt	
Sodium	120	1.0	mg/L	EPA 200.7	07/09/08 16:40	lmt	
Potassium	1.1	1.0	mg/L	EPA 200.7	07/09/08 16:40	lmt	
<b>Anions</b>							
Total Alkalinity	260	3.0	mg/L	SM 2320B	07/14/08 18:21	ctl	
Hydroxide	ND	3.0	mg/L	SM 2320B	07/14/08 18:21	ctl	
Carbonate	ND	3.0	mg/L	SM 2320B	07/14/08 18:21	ctl	
Bicarbonate	310	3.0	mg/L	SM 2320B	07/14/08 18:21	ctl	
Chloride	77	1.0	mg/L	EPA 300.0	07/04/08 01:09	CTH	
Sulfate	72	0.50	mg/L	EPA 300.0	07/04/08 01:09	CTH	
Nitrate as N	ND	0.20	mg/L	EPA 300.0	07/04/08 01:09	CTH	
<b>Aggregate Organic Compounds</b>							
Total Organic Carbon	2.7	0.70	mg/L	SM 5310B	07/08/08 18:16	krv	
Total Petroleum Hydrocarbons	2.5	1.0	mg/L	EPA 418.1	07/10/08 13:04	tdm	
Phenols	ND	0.020	mg/L	EPA 420.4	07/15/08 11:48	ms	
<b>Surfactants</b>							
MBAS	0.07	0.05	mg/L	SM 5540C	07/03/08 20:48	ctl	
<b>General Inorganics</b>							
Cyanide	ND	0.005	mg/L	SM 4500CN E	07/15/08 13:47	sl	

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CA ELAP no. 1156  
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 38 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

**Work Order Number: A8G0337**

Report Date: 24-Jul-2008

Received on Ice (Y/N): Yes Temp: 4 °C

### Laboratory Reference Number

## A8G0337-06

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
1636 NW-3	Liquid	07/02/08 08:30	07/03/08 14:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
<b>Nutrients</b>							
Nitrite as N	ND	0.10	mg/L	SM 4500NO2 B	07/03/08 21:36	jc	
Ammonia-Nitrogen	ND	0.10	mg/L	SM4500NH3H	07/07/08 13:11	sll	
Kjeldahl Nitrogen	0.33	0.10	mg/L	EPA 351.2	07/15/08 18:56	sll	
<b>Metals and Metalloids</b>							
Antimony	ND	10	ug/L	EPA 200.8	07/09/08 15:34	ap	
Arsenic	10	5.0	ug/L	EPA 200.8	07/09/08 15:34	ap	
Barium	59	20	ug/L	EPA 200.8	07/09/08 15:34	ap	
Beryllium	ND	10	ug/L	EPA 200.8	07/09/08 15:34	ap	
Boron	400	100	ug/L	EPA 200.7	07/09/08 16:40	lmt	
Cadmium	ND	2.0	ug/L	EPA 200.8	07/09/08 15:34	ap	
Total Chromium	ND	20	ug/L	EPA 200.8	07/09/08 15:34	ap	
Cobalt	ND	10	ug/L	EPA 200.8	07/09/08 15:34	ap	
Copper	ND	10	ug/L	EPA 200.8	07/09/08 15:34	ap	
Iron	79	50	ug/L	EPA 200.7	07/09/08 16:40	lmt	
Lead	ND	10	ug/L	EPA 200.8	07/09/08 15:34	ap	
Manganese	430	10	ug/L	EPA 200.8	07/09/08 15:34	ap	
Mercury	ND	0.50	ug/L	EPA 200.8	07/09/08 15:34	ap	
Molybdenum	13	10	ug/L	EPA 200.8	07/09/08 15:34	ap	
Nickel	ND	20	ug/L	EPA 200.8	07/09/08 15:34	ap	
Selenium	ND	5.0	ug/L	EPA 200.8	07/09/08 15:34	ap	
Silver	ND	10	ug/L	EPA 200.8	07/09/08 15:34	ap	
Thallium	ND	200	ug/L	EPA 200.8	07/09/08 15:34	ap	
Vanadium	18	10	ug/L	EPA 200.8	07/09/08 15:34	ap	
Zinc	ND	10	ug/L	EPA 200.8	07/09/08 15:34	ap	

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Client Name: Victor Valley Reclamation Authority
Contact: Gina Cloutier
Address: 15776 Main St. Suite 3
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Analytical Report: Page 39 of 65
Project Name: VVWRA-Lab
Project Number: [none]

Report Date: 24-Jul-2008

Work Order Number: A8G0337

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

A8G0337-06

Sample Description: 1636 NW-3
Matrix: Liquid
Sampled Date/Time: 07/02/08 08:30
Received Date/Time: 07/03/08 14:15

Table with columns: Analyte(s), Result, RDL, Units, Method, Analysis Date, Analyst, Flag. Contains data for Volatile Organic Compounds by EPA 524.2 and EPA 624.

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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 40 of 65  
 Project Name: VVWRA-Lab  
 Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number  
**A8G0337-06**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1636 NW-3	Liquid	07/02/08 08:30	07/03/08 14:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
<b>Volatile Organic Compounds by EPA 624</b>							
Chloroform	ND	0.50	ug/L	EPA 624	07/08/08 16:35	JES	
Chloromethane	ND	0.50	ug/L	EPA 624	07/08/08 16:35	JES	
cis-1,3-Dichloropropene	ND	0.50	ug/L	EPA 624	07/08/08 16:35	JES	
Dibromochloromethane	ND	0.50	ug/L	EPA 624	07/08/08 16:35	JES	
Dichlorodifluoromethane (EPA 8260)	ND	0.50	ug/L	EPA 624	07/08/08 16:35	JES	
Ethylbenzene	ND	0.50	ug/L	EPA 624	07/08/08 16:35	JES	
Methyl tert Butyl Ether	ND	5.0	ug/L	EPA 624	07/08/08 16:35	JES	
Methylene Chloride	ND	3.0	ug/L	EPA 624	07/08/08 16:35	JES	
Tetrachloroethene	ND	0.50	ug/L	EPA 624	07/08/08 16:35	JES	
Toluene	ND	0.50	ug/L	EPA 624	07/08/08 16:35	JES	
trans-1,2-Dichloroethene	ND	0.50	ug/L	EPA 624	07/08/08 16:35	JES	
trans-1,3-Dichloropropene	ND	0.50	ug/L	EPA 624	07/08/08 16:35	JES	
Trichloroethene	ND	0.50	ug/L	EPA 624	07/08/08 16:35	JES	
Trichlorofluoromethane	ND	5.0	ug/L	EPA 624	07/08/08 16:35	JES	
Vinyl Chloride	ND	0.50	ug/L	EPA 624	07/08/08 16:35	JES	
Xylenes (m+p) (EPA 8260B)	ND	0.50	ug/L	EPA 624	07/08/08 16:35	JES	
Xylenes (ortho) (EPA 8260B)	ND	0.50	ug/L	EPA 624	07/08/08 16:35	JES	
Surrogate: 1,2-Dichloroethane-d4	104	% 80-120		EPA 624	07/08/08 16:35	JES	
Surrogate: Bromofluorobenzene	103	% 80-141		EPA 624	07/08/08 16:35	JES	
Surrogate: Toluene-d8	96.6	% 80-120		EPA 624	07/08/08 16:35	JES	
<b>Semivolatile Organic Compounds by EPA 625</b>							
2,3,7,8-TCDD (scan)	ND	0.050	ug/L	EPA 625	07/10/08 00:26	DF	
1,2,4-Trichlorobenzene	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
1,2-Diphenylhydrazine (EPA 8270)	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
2,4,6-Trichlorophenol	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
2,4-Dichlorophenol	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
2,4-Dimethylphenol	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
2,4-Dinitrophenol	ND	50	ug/L	EPA 625	07/10/08 00:26	DF	

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NELAP no. 02101CA  
 CA ELAP no. 1156  
 EPA no. CA00102



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Environmental Laboratories *est. 1906*

Client Name: Victor Valley Reclamation Authority  
Contact: Gina Cloutier  
Address: 15776 Main St. Suite 3  
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Analytical Report: Page 41 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

### Laboratory Reference Number

## A8G0337-06

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1636 NW-3	Liquid	07/02/08 08:30	07/03/08 14:15

<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>
Semivolatile Organic Compounds by EPA 625							
2,4-Dinitrotoluene	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
2,6-Dinitrotoluene	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
2-Chloronaphthalene	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
2-Chlorophenol	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
2-Methyl-4,6-Dinitrophenol	ND	50	ug/L	EPA 625	07/10/08 00:26	DF	
2-Nitrophenol	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
3,3'-Dichlorobenzidine	ND	20	ug/L	EPA 625	07/10/08 00:26	DF	
4,4'-DDD	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
4,4'-DDE	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
4,4'-DDT	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
4-Bromophenyl phenyl ether	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
4-Chloro-3-methylphenol	ND	20	ug/L	EPA 625	07/10/08 00:26	DF	
4-Chlorophenyl phenyl ether	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
4-Nitrophenol	ND	50	ug/L	EPA 625	07/10/08 00:26	DF	
a-BHC	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Acenaphthene	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Acenaphthylene	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Aldrin	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Anthracene	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Aroclor 1016 (screen)	ND	50	ug/L	EPA 625	07/10/08 00:26	DF	
Aroclor 1221 (screen)	ND	50	ug/L	EPA 625	07/10/08 00:26	DF	
Aroclor 1232 (screen)	ND	50	ug/L	EPA 625	07/10/08 00:26	DF	
Aroclor 1242 (screen)	ND	50	ug/L	EPA 625	07/10/08 00:26	DF	
Aroclor 1248 (screen)	ND	50	ug/L	EPA 625	07/10/08 00:26	DF	
Aroclor 1254 (screen)	ND	50	ug/L	EPA 625	07/10/08 00:26	DF	
Aroclor 1260 (screen)	ND	50	ug/L	EPA 625	07/10/08 00:26	DF	
b-BHC	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Benzidine	ND	50	ug/L	EPA 625	07/10/08 00:26	DF	
Benzo(a)anthracene	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Benzo(a)pyrene	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	

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CA ELAP no. 1156  
EPA no. CA00102



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Client Name: Victor Valley Reclamation Authority  
 Contact: Gina Cloutier  
 Address: 15776 Main St. Suite 3  
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Analytical Report: Page 42 of 65  
 Project Name: VVWRA-Lab  
 Project Number: [none]

**Work Order Number: A8G0337**

Report Date: 24-Jul-2008

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

**A8G0337-06**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1636 NW-3	Liquid	07/02/08 08:30	07/03/08 14:15

<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>
Semivolatle Organic Compounds by EPA 625							
Benzo(b)fluoranthene	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Benzo(ghi)perylene	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Benzo(k)fluoranthene	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Bis(2-chloroethoxy)methane	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Bis(2-Chloroethyl)ether	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Bis(2-chloroisopropyl)Ether	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Bis(2-ethylhexyl)phthalate	ND	3.0	ug/L	EPA 625	07/10/08 00:26	DF	
Butyl benzyl phthalate	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Chlordane (screen)	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Chrysene	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
d-BHC	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Di-n-butylphthalate	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Di-n-octylphthalate	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Dibenzo(a,h)anthracene	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Dieldrin	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Diethyl phthalate	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Dimethyl phthalate	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Endosulfan I	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Endosulfan II	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Endosulfan Sulfate	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Endrin	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Fluoranthene	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Fluorene	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Heptachlor	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Heptachlor Epoxide	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Hexachlorobenzene	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Hexachlorobutadiene	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Hexachlorocyclopentadiene	ND	50	ug/L	EPA 625	07/10/08 00:26	DF	
Hexachloroethane	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	

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Client Name: Victor Valley Reclamation Authority  
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Address: 15776 Main St. Suite 3  
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Analytical Report: Page 43 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

**A8G0337-06**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1636 NW-3	Liquid	07/02/08 08:30	07/03/08 14:15

<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>Semivolatile Organic Compounds by EPA 625</b>							
Isophorone	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
n-Nitrosodi-n-propylamine	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
N-Nitrosodimethylamine	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
N-Nitrosodiphenylamine	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Naphthalene	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Nitrobenzene	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Pentachlorophenol	ND	50	ug/L	EPA 625	07/10/08 00:26	DF	
Phenanthrene	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Phenol	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Pyrene	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Toxaphene (screen)	ND	50	ug/L	EPA 625	07/10/08 00:26	DF	
y-BHC	ND	10	ug/L	EPA 625	07/10/08 00:26	DF	
Surrogate: 2,4,6-Tribromophenol	81.4	% 40-109		EPA 625	07/10/08 00:26	DF	
Surrogate: 2-Fluorobiphenyl	65.0	% 42-110		EPA 625	07/10/08 00:26	DF	
Surrogate: 2-Fluorophenol	30.0	% 16-110		EPA 625	07/10/08 00:26	DF	
Surrogate: 4-Terphenyl-d14	79.0	% 41-112		EPA 625	07/10/08 00:26	DF	
Surrogate: Nitrobenzene-d5	66.2	% 44-110		EPA 625	07/10/08 00:26	DF	
Surrogate: Phenol-d6	21.5	% 10-110		EPA 625	07/10/08 00:26	DF	

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EPA no. CA00102



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Client Name: Victor Valley Reclamation Authority  
 Contact: Gina Cloutier  
 Address: 15776 Main St. Suite 3  
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Analytical Report: Page 44 of 65  
 Project Name: VVWRA-Lab  
 Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

**A8G0337-07**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1637 OW-4	Liquid	07/02/08 12:30	07/03/08 14:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
<b>Cations</b>							
Total Hardness	85	3.0	mg/L	SM 3120B	07/09/08 16:42	lmt	
Calcium	28	1.0	mg/L	EPA 200.7	07/09/08 16:42	lmt	
Magnesium	3.6	1.0	mg/L	EPA 200.7	07/09/08 16:42	lmt	
Sodium	110	1.0	mg/L	EPA 200.7	07/09/08 16:42	lmt	
Potassium	1.8	1.0	mg/L	EPA 200.7	07/09/08 16:42	lmt	
<b>Anions</b>							
Total Alkalinity	160	3.0	mg/L	SM 2320B	07/14/08 18:21	ctl	
Hydroxide	ND	3.0	mg/L	SM 2320B	07/14/08 18:21	ctl	
Carbonate	ND	3.0	mg/L	SM 2320B	07/14/08 18:21	ctl	
Bicarbonate	200	3.0	mg/L	SM 2320B	07/14/08 18:21	ctl	
Chloride	60	1.0	mg/L	EPA 300.0	07/04/08 01:19	CTH	
Sulfate	45	0.50	mg/L	EPA 300.0	07/04/08 01:19	CTH	
Nitrate as N	9.5	0.20	mg/L	EPA 300.0	07/04/08 01:19	CTH	
<b>Aggregate Organic Compounds</b>							
Total Organic Carbon	0.86	0.70	mg/L	SM 5310B	07/08/08 18:16	krv	
Total Petroleum Hydrocarbons	ND	1.0	mg/L	EPA 418.1	07/10/08 13:04	tdm	
Phenols	ND	0.020	mg/L	EPA 420.4	07/15/08 11:49	ms	
<b>Surfactants</b>							
MBAS	ND	0.05	mg/L	SM 5540C	07/03/08 20:48	ctl	
<b>General Inorganics</b>							
Cyanide	ND	0.005	mg/L	SM 4500CN E	07/15/08 13:49	sll	

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Client Name: Victor Valley Reclamation Authority  
 Contact: Gina Cloutier  
 Address: 15776 Main St. Suite 3  
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Analytical Report: Page 45 of 65  
 Project Name: VVWRA-Lab  
 Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number  
**A8G0337-07**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1637 OW-4	Liquid	07/02/08 12:30	07/03/08 14:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
<b>Nutrients</b>							
Nitrite as N	ND	0.10	mg/L	SM 4500NO2 B	07/03/08 21:36	jc	
Ammonia-Nitrogen	ND	0.10	mg/L	SM4500NH3H	07/07/08 13:13	sll	
Kjeldahl Nitrogen	0.21	0.10	mg/L	EPA 351.2	07/15/08 18:58	sll	
<b>Metals and Metalloids</b>							
Antimony	ND	10	ug/L	EPA 200.8	07/09/08 15:38	ap	
Arsenic	5.6	5.0	ug/L	EPA 200.8	07/09/08 15:38	ap	
Barium	58	20	ug/L	EPA 200.8	07/09/08 15:38	ap	
Beryllium	ND	10	ug/L	EPA 200.8	07/09/08 15:38	ap	
Boron	290	100	ug/L	EPA 200.7	07/09/08 16:42	lmt	
Cadmium	ND	2.0	ug/L	EPA 200.8	07/09/08 15:38	ap	
Total Chromium	ND	20	ug/L	EPA 200.8	07/09/08 15:38	ap	
Cobalt	ND	10	ug/L	EPA 200.8	07/09/08 15:38	ap	
Copper	ND	10	ug/L	EPA 200.8	07/09/08 15:38	ap	
Iron	ND	50	ug/L	EPA 200.7	07/09/08 16:43	lmt	
Lead	ND	10	ug/L	EPA 200.8	07/09/08 15:38	ap	
Manganese	ND	10	ug/L	EPA 200.8	07/09/08 15:38	ap	
Mercury	ND	0.50	ug/L	EPA 200.8	07/09/08 15:38	ap	
Molybdenum	ND	10	ug/L	EPA 200.8	07/09/08 15:38	ap	
Nickel	ND	20	ug/L	EPA 200.8	07/09/08 15:38	ap	
Selenium	ND	5.0	ug/L	EPA 200.8	07/09/08 15:38	ap	
Silver	ND	10	ug/L	EPA 200.8	07/09/08 15:38	ap	
Thallium	ND	200	ug/L	EPA 200.8	07/09/08 15:38	ap	
Vanadium	20	10	ug/L	EPA 200.8	07/09/08 15:38	ap	
Zinc	ND	10	ug/L	EPA 200.8	07/09/08 15:38	ap	

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 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 46 of 65
Project Name: VVWRA-Lab
Project Number: [none]

Work Order Number: A8G0337

Report Date: 24-Jul-2008

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

A8G0337-07

Sample Description: 1637 OW-4
Matrix: Liquid
Sampled Date/Time: 07/02/08 12:30
Received Date/Time: 07/03/08 14:15

Table with columns: Analyte(s), Result, RDL, Units, Method, Analysis Date, Analyst, Flag. Contains data for Volatile Organic Compounds by EPA 524.2 and EPA 624.

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Client Name: Victor Valley Reclamation Authority  
Contact: Gina Cloutier  
Address: 15776 Main St. Suite 3  
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Analytical Report: Page 47 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 24-Jul-2008

Work Order Number: **A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

### Laboratory Reference Number

## A8G0337-07

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
1637 OW-4	Liquid	07/02/08 12:30	07/03/08 14:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
<b>Volatile Organic Compounds by EPA 624</b>							
Chloroform	1.7	0.50	ug/L	EPA 624	07/08/08 20:14	JES	
Chloromethane	ND	0.50	ug/L	EPA 624	07/08/08 20:14	JES	
cis-1,3-Dichloropropene	ND	0.50	ug/L	EPA 624	07/08/08 20:14	JES	
Dibromochloromethane	ND	0.50	ug/L	EPA 624	07/08/08 20:14	JES	
Dichlorodifluoromethane (EPA 8260)	ND	0.50	ug/L	EPA 624	07/08/08 20:14	JES	
Ethylbenzene	ND	0.50	ug/L	EPA 624	07/08/08 20:14	JES	
Methyl tert Butyl Ether	ND	5.0	ug/L	EPA 624	07/08/08 20:14	JES	
Methylene Chloride	ND	3.0	ug/L	EPA 624	07/08/08 20:14	JES	
Tetrachloroethene	ND	0.50	ug/L	EPA 624	07/08/08 20:14	JES	
Toluene	ND	0.50	ug/L	EPA 624	07/08/08 20:14	JES	
trans-1,2-Dichloroethene	ND	0.50	ug/L	EPA 624	07/08/08 20:14	JES	
trans-1,3-Dichloropropene	ND	0.50	ug/L	EPA 624	07/08/08 20:14	JES	
Trichloroethene	ND	0.50	ug/L	EPA 624	07/08/08 20:14	JES	
Trichlorofluoromethane	ND	5.0	ug/L	EPA 624	07/08/08 20:14	JES	
Vinyl Chloride	ND	0.50	ug/L	EPA 624	07/08/08 20:14	JES	
Xylenes (m+p) (EPA 8260B)	ND	0.50	ug/L	EPA 624	07/08/08 20:14	JES	
Xylenes (ortho) (EPA 8260B)	ND	0.50	ug/L	EPA 624	07/08/08 20:14	JES	
Surrogate: 1,2-Dichloroethane-d4	107	% 80-120		EPA 624	07/08/08 20:14	JES	
Surrogate: Bromofluorobenzene	101	% 80-141		EPA 624	07/08/08 20:14	JES	
Surrogate: Toluene-d8	95.6	% 80-120		EPA 624	07/08/08 20:14	JES	
<b>Semivolatile Organic Compounds by EPA 625</b>							
2,3,7,8-TCDD (scan)	ND	0.050	ug/L	EPA 625	07/10/08 00:56	DF	
1,2,4-Trichlorobenzene	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
1,2-Diphenylhydrazine (EPA 8270)	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
2,4,6-Trichlorophenol	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
2,4-Dichlorophenol	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
2,4-Dimethylphenol	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
2,4-Dinitrophenol	ND	50	ug/L	EPA 625	07/10/08 00:56	DF	

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NELAP no. 02101CA  
CA ELAP no. 1156  
EPA no. CA00102





# E.S.BABCOCK&Sons,Inc.

Environmental Laboratories *est. 1906*

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

Analytical Report: Page 48 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

**A8G0337-07**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1637 OW-4	Liquid	07/02/08 12:30	07/03/08 14:15

<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>
Semivolatile Organic Compounds by EPA 625							
2,4-Dinitrotoluene	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
2,6-Dinitrotoluene	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
2-Chloronaphthalene	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
2-Chlorophenol	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
2-Methyl-4,6-Dinitrophenol	ND	50	ug/L	EPA 625	07/10/08 00:56	DF	
2-Nitrophenol	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
3,3'-Dichlorobenzidine	ND	20	ug/L	EPA 625	07/10/08 00:56	DF	
4,4'-DDD	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
4,4'-DDE	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
4,4'-DDT	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
4-Bromophenyl phenyl ether	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
4-Chloro-3-methylphenol	ND	20	ug/L	EPA 625	07/10/08 00:56	DF	
4-Chlorophenyl phenyl ether	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
4-Nitrophenol	ND	50	ug/L	EPA 625	07/10/08 00:56	DF	
a-BHC	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
Acenaphthene	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
Acenaphthylene	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
Aldrin	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
Anthracene	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
Aroclor 1016 (screen)	ND	50	ug/L	EPA 625	07/10/08 00:56	DF	
Aroclor 1221 (screen)	ND	50	ug/L	EPA 625	07/10/08 00:56	DF	
Aroclor 1232 (screen)	ND	50	ug/L	EPA 625	07/10/08 00:56	DF	
Aroclor 1242 (screen)	ND	50	ug/L	EPA 625	07/10/08 00:56	DF	
Aroclor 1248 (screen)	ND	50	ug/L	EPA 625	07/10/08 00:56	DF	
Aroclor 1254 (screen)	ND	50	ug/L	EPA 625	07/10/08 00:56	DF	
Aroclor 1260 (screen)	ND	50	ug/L	EPA 625	07/10/08 00:56	DF	
b-BHC	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
Benzidine	ND	50	ug/L	EPA 625	07/10/08 00:56	DF	
Benzo(a)anthracene	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
Benzo(a)pyrene	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	

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CA ELAP no. 1156  
EPA no. CA00102



E.S.BABCOCK&Sons,Inc.

Environmental Laboratories *est 1906*

Client Name: Victor Valley Reclamation Authority
Contact: Gina Cloutier
Address: 15776 Main St. Suite 3
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Analytical Report: Page 49 of 65
Project Name: VVWRA-Lab
Project Number: [none]

Report Date: 24-Jul-2008

Work Order Number: A8G0337

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

A8G0337-07

Sample Description: 1637 OW-4
Matrix: Liquid
Sampled Date/Time: 07/02/08 12:30
Received Date/Time: 07/03/08 14:15

Table with 7 columns: Analyte(s), Result, RDL, Units, Method, Analysis Date, Analyst, Flag. Lists various organic compounds and their detection results.

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Client Name: Victor Valley Reclamation Authority  
Contact: Gina Cloutier  
Address: 15776 Main St. Suite 3  
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Analytical Report: Page 50 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

**A8G0337-07**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1637 OW-4	Liquid	07/02/08 12:30	07/03/08 14:15

<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>
Semivolatile Organic Compounds by EPA 625							
Isophorone	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
n-Nitrosodi-n-propylamine	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
N-Nitrosodimethylamine	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
N-Nitrosodiphenylamine	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
Naphthalene	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
Nitrobenzene	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
Pentachlorophenol	ND	50	ug/L	EPA 625	07/10/08 00:56	DF	
Phenanthrene	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
Phenol	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
Pyrene	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
Toxaphene (screen)	ND	50	ug/L	EPA 625	07/10/08 00:56	DF	
y-BHC	ND	10	ug/L	EPA 625	07/10/08 00:56	DF	
Surrogate: 2,4,6-Tribromophenol	73.8	% 40-109		EPA 625	07/10/08 00:56	DF	
Surrogate: 2-Fluorobiphenyl	61.2	% 42-110		EPA 625	07/10/08 00:56	DF	
Surrogate: 2-Fluorophenol	30.5	% 16-110		EPA 625	07/10/08 00:56	DF	
Surrogate: 4-Terphenyl-d14	79.6	% 41-112		EPA 625	07/10/08 00:56	DF	
Surrogate: Nitrobenzene-d5	63.0	% 44-110		EPA 625	07/10/08 00:56	DF	
Surrogate: Phenol-d6	21.1	% 10-110		EPA 625	07/10/08 00:56	DF	

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CA ELAP no. 1156  
EPA no. CA00102



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Client Name: Victor Valley Reclamation Authority  
Contact: Gina Cloutier  
Address: 15776 Main St. Suite 3  
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Analytical Report: Page 51 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

**A8G0337-08**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1638 OW-6	Liquid	07/02/08 07:30	07/03/08 14:15

<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>Cations</b>							
Total Hardness	130	3.0	mg/L	SM 3120B	07/09/08 16:44	lmt	
Calcium	43	1.0	mg/L	EPA 200.7	07/09/08 16:44	lmt	
Magnesium	5.4	1.0	mg/L	EPA 200.7	07/09/08 16:44	lmt	
Sodium	78	1.0	mg/L	EPA 200.7	07/09/08 16:44	lmt	
Potassium	2.2	1.0	mg/L	EPA 200.7	07/09/08 16:44	lmt	
<b>Anions</b>							
Total Alkalinity	160	3.0	mg/L	SM 2320B	07/14/08 18:21	ctl	
Hydroxide	ND	3.0	mg/L	SM 2320B	07/14/08 18:21	ctl	
Carbonate	ND	3.0	mg/L	SM 2320B	07/14/08 18:21	ctl	
Bicarbonate	190	3.0	mg/L	SM 2320B	07/14/08 18:21	ctl	
Chloride	38	1.0	mg/L	EPA 300.0	07/04/08 01:29	CTH	
Sulfate	86	0.50	mg/L	EPA 300.0	07/04/08 01:29	CTH	
Nitrate as N	2.4	0.20	mg/L	EPA 300.0	07/04/08 01:29	CTH	
<b>Aggregate Organic Compounds</b>							
Total Organic Carbon	0.90	0.70	mg/L	SM 5310B	07/08/08 18:16	krv	
Total Petroleum Hydrocarbons	ND	1.0	mg/L	EPA 418.1	07/10/08 13:04	tdm	
Phenols	ND	0.020	mg/L	EPA 420.4	07/15/08 11:51	ms	
<b>Surfactants</b>							
MBAS	ND	0.05	mg/L	SM 5540C	07/03/08 20:48	ctl	
<b>General Inorganics</b>							
Cyanide	ND	0.005	mg/L	SM 4500CN E	07/15/08 13:51	sl	

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NELAP no. 02101CA  
CA ELAP no. 1156  
EPA no. CA00102



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Environmental Laboratories est. 1906

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

Analytical Report: Page 52 of 65
Project Name: VVWRA-Lab
Project Number: [none]

Report Date: 24-Jul-2008

Work Order Number: A8G0337

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

A8G0337-08

Sample Description: 1638 OW-6
Matrix: Liquid
Sampled Date/Time: 07/02/08 07:30
Received Date/Time: 07/03/08 14:15

Table with columns: Analyte(s), Result, RDL, Units, Method, Analysis Date, Analyst, Flag. Rows include Nutrients (Nitrite as N, Ammonia-Nitrogen, Kjeldahl Nitrogen) and Metals and Metalloids (Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Total Chromium, Cobalt, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc).

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CA ELAP no. 1156
EPA no. CA00102



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Client Name: Victor Valley Reclamation Authority
Contact: Gina Cloutier
Address: 15776 Main St. Suite 3
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Analytical Report: Page 53 of 65
Project Name: VVWRA-Lab
Project Number: [none]

Report Date: 24-Jul-2008

Work Order Number: A8G0337

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

A8G0337-08

Sample Description: 1638 OW-6
Matrix: Liquid
Sampled Date/Time: 07/02/08 07:30
Received Date/Time: 07/03/08 14:15

Table with 9 columns: Analyte(s), Result, RDL, Units, Method, Analysis Date, Analyst, Flag. Contains two sections of data for Volatile Organic Compounds by EPA 524.2 and EPA 624.

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NELAP no. 02101CA
CA ELAP no. 1156
EPA no. CA00102



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Environmental Laboratories *est. 1906*

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

Analytical Report: Page 54 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

**Work Order Number: A8G0337**

Report Date: 24-Jul-2008

Received on Ice (Y/N): Yes Temp: 4 °C

### Laboratory Reference Number

## A8G0337-08

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
1638 OW-6	Liquid	07/02/08 07:30	07/03/08 14:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Volatile Organic Compounds by EPA 624							
Chloroform	ND	0.50	ug/L	EPA 624	07/08/08 20:47	JES	
Chloromethane	ND	0.50	ug/L	EPA 624	07/08/08 20:47	JES	
cis-1,3-Dichloropropene	ND	0.50	ug/L	EPA 624	07/08/08 20:47	JES	
Dibromochloromethane	ND	0.50	ug/L	EPA 624	07/08/08 20:47	JES	
Dichlorodifluoromethane (EPA 8260)	ND	0.50	ug/L	EPA 624	07/08/08 20:47	JES	
Ethylbenzene	ND	0.50	ug/L	EPA 624	07/08/08 20:47	JES	
Methyl tert Butyl Ether	ND	5.0	ug/L	EPA 624	07/08/08 20:47	JES	
Methylene Chloride	ND	3.0	ug/L	EPA 624	07/08/08 20:47	JES	
Tetrachloroethene	ND	0.50	ug/L	EPA 624	07/08/08 20:47	JES	
Toluene	ND	0.50	ug/L	EPA 624	07/08/08 20:47	JES	
trans-1,2-Dichloroethene	ND	0.50	ug/L	EPA 624	07/08/08 20:47	JES	
trans-1,3-Dichloropropene	ND	0.50	ug/L	EPA 624	07/08/08 20:47	JES	
Trichloroethene	ND	0.50	ug/L	EPA 624	07/08/08 20:47	JES	
Trichlorofluoromethane	ND	5.0	ug/L	EPA 624	07/08/08 20:47	JES	
Vinyl Chloride	ND	0.50	ug/L	EPA 624	07/08/08 20:47	JES	
Xylenes (m+p) (EPA 8260B)	ND	0.50	ug/L	EPA 624	07/08/08 20:47	JES	
Xylenes (ortho) (EPA 8260B)	ND	0.50	ug/L	EPA 624	07/08/08 20:47	JES	
Surrogate: 1,2-Dichloroethane-d4	104	% 80-120		EPA 624	07/08/08 20:47	JES	
Surrogate: Bromofluorobenzene	103	% 80-141		EPA 624	07/08/08 20:47	JES	
Surrogate: Toluene-d8	96.6	% 80-120		EPA 624	07/08/08 20:47	JES	
Semivolatile Organic Compounds by EPA 625							
1,2,4-Trichlorobenzene	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	N_HTz
1,2-Diphenylhydrazine (EPA 8270)	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
2,4,6-Trichlorophenol	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
2,4-Dichlorophenol	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
2,4-Dimethylphenol	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
2,4-Dinitrophenol	ND	50	ug/L	EPA 625	07/18/08 17:35	DF	
2,4-Dinitrotoluene	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	

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CA ELAP no. 1156  
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 55 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

**A8G0337-08**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1638 OW-6	Liquid	07/02/08 07:30	07/03/08 14:15

<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>
Semivolatile Organic Compounds by EPA 625							N_HT2
2,6-Dinitrotoluene	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
2-Chloronaphthalene	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
2-Chlorophenol	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
2-Methyl-4,6-Dinitrophenol	ND	50	ug/L	EPA 625	07/18/08 17:35	DF	
2-Nitrophenol	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
3,3'-Dichlorobenzidine	ND	20	ug/L	EPA 625	07/18/08 17:35	DF	
4,4'-DDD	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
4,4'-DDE	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
4,4'-DDT	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
4-Bromophenyl phenyl ether	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
4-Chloro-3-methylphenol	ND	20	ug/L	EPA 625	07/18/08 17:35	DF	
4-Chlorophenyl phenyl ether	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
4-Nitrophenol	ND	50	ug/L	EPA 625	07/18/08 17:35	DF	
a-BHC	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Acenaphthene	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Acenaphthylene	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Aldrin	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Anthracene	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Aroclor 1016 (screen)	ND	50	ug/L	EPA 625	07/18/08 17:35	DF	
Aroclor 1221 (screen)	ND	50	ug/L	EPA 625	07/18/08 17:35	DF	
Aroclor 1232 (screen)	ND	50	ug/L	EPA 625	07/18/08 17:35	DF	
Aroclor 1242 (screen)	ND	50	ug/L	EPA 625	07/18/08 17:35	DF	
Aroclor 1248 (screen)	ND	50	ug/L	EPA 625	07/18/08 17:35	DF	
Aroclor 1254 (screen)	ND	50	ug/L	EPA 625	07/18/08 17:35	DF	
Aroclor 1260 (screen)	ND	50	ug/L	EPA 625	07/18/08 17:35	DF	
b-BHC	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Benzidine	ND	50	ug/L	EPA 625	07/18/08 17:35	DF	
Benzo(a)anthracene	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Benzo(a)pyrene	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Benzo(b)fluoranthene	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	

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NELAP no. 02101CA  
CA ELAP no. 1156  
EPA no. CA00102





# E.S.BABCOCK&Sons,Inc.

Environmental Laboratories *est. 1906*

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

Analytical Report: Page 56 of 65  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

### Laboratory Reference Number

## A8G0337-08

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
1638 OW-6	Liquid	07/02/08 07:30	07/03/08 14:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Semivolatile Organic Compounds by EPA 625							N_HTz
Benzo(ghi)perylene	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Benzo(k)fluoranthene	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Bis(2-chloroethoxy)methane	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Bis(2-Chloroethyl)ether	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Bis(2-chloroisopropyl)Ether	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Bis(2-ethylhexyl)phthalate	ND	3.0	ug/L	EPA 625	07/18/08 17:35	DF	
Butyl benzyl phthalate	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Chlordane (screen)	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Chrysene	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
d-BHC	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Di-n-butylphthalate	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Di-n-octylphthalate	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Dibenzo(a,h)anthracene	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Dieldrin	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Diethyl phthalate	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Dimethyl phthalate	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Endosulfan I	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Endosulfan II	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Endosulfan Sulfate	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Endrin	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Fluoranthene	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Fluorene	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Heptachlor	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Heptachlor Epoxide	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Hexachlorobenzene	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Hexachlorobutadiene	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Hexachlorocyclopentadiene	ND	50	ug/L	EPA 625	07/18/08 17:35	DF	
Hexachloroethane	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Isophorone	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	

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NELAP no. 02101CA  
CA ELAP no. 1156  
EPA no. CA00102



**E.S.BABCOCK & Sons, Inc.**  
 Environmental Laboratories *est. 1906*

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

Analytical Report: Page 57 of 65  
 Project Name: VVWRA-Lab  
 Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

**A8G0337-08**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1638 OW-6	Liquid	07/02/08 07:30	07/03/08 14:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Semivolatile Organic Compounds by EPA 625							
n-Nitrosodi-n-propylamine	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	N_HT:
N-Nitrosodimethylamine	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
N-Nitrosodiphenylamine	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Naphthalene	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Nitrobenzene	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Pentachlorophenol	ND	50	ug/L	EPA 625	07/18/08 17:35	DF	
Phenanthrene	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Phenol	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Pyrene	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Toxaphene (screen)	ND	50	ug/L	EPA 625	07/18/08 17:35	DF	
γ-BHC	ND	10	ug/L	EPA 625	07/18/08 17:35	DF	
Surrogate: 2,4,6-Tribromophenol	61.1	% 40-109		EPA 625	07/18/08 17:35	DF	
Surrogate: 2-Fluorobiphenyl	58.4	% 42-110		EPA 625	07/18/08 17:35	DF	
Surrogate: 2-Fluorophenol	32.5	% 16-110		EPA 625	07/18/08 17:35	DF	
Surrogate: 4-Terphenyl-d14	73.5	% 41-112		EPA 625	07/18/08 17:35	DF	
Surrogate: Nitrobenzene-d5	54.4	% 44-110		EPA 625	07/18/08 17:35	DF	
Surrogate: Phenol-d6	22.7	% 10-110		EPA 625	07/18/08 17:35	DF	

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NELAP no. 02101CA  
 CA ELAP no. 1156  
 EPA no. CA00102



**E.S.BABCOCK & Sons, Inc.**  
 Environmental Laboratories *est. 1906*

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

Analytical Report: Page 65 of 65  
 Project Name: VVWRA-Lab  
 Project Number: [none]

Report Date: 24-Jul-2008

**Work Order Number: A8G0337**

Received on Ice (Y/N): Yes Temp: 4 °C

**Notes and Definitions**

- N\_HTc Original sample was run within holding time. Sample was reanalyzed and confirmed the original results. Reanalysis was performed outside EPA recommended holding time due to QC failure in the original batch.
- N\_HTz Original sample was run within holding time. Results were unavailable from the original extraction/analysis due to extraction/instrument error. Sample re-extracted and reanalyzed outside sample holding time.
- N\_pScr Sample screened for interference and preserved upon receipt to the laboratory.
- NCEVE In an acidified sample, this compound degrades and is not detectable as 2-Chloroethylvinyl ether. Its degradation product is 2-Chloroethanol, which is not an analyte of this method.
- NMout 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

\* / (Non-NELAP): 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.

- Lorenzo Rodriguez Project Manager
- Allison Mackenzie General Manager
- Lawrence J. Chrystal Laboratory Director

cc: ESB\_Short\_Report

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NELAP no. 02101CA  
 CA ELAP no. 1156  
 EPA no. CA00102

**SECTION 8**

**SURFACE MONITORING**

VWRA  
Surface Water Monitoring  
Quarterly  
2008

**Upstream**

Sample Date	pH (pH units)	Temperature (° C)	Turbidity (NTU)	Chlorine Residual (mg/L)	Dissolved Oxygen (mg/L)	Total Coliforms (MPN/100 mL)	Ammonia as N (mg/L)	Nitrite as N (mg/L)	Nitrate as N (mg/L)	TKN (mg/L)	T.D.S (mg/L)	Trihalo-Methanes (mg/L)	Total Hardness (mg/L)	Haloacetic Acids (mg/L)	Ortho-Phosphate (mg/L P)
01/14/08	7.9	7.1	1.43	ND	9.3	220	ND	ND	0.23	0.11	420	ND	*	ND	0.11
04/09/08	7.6	14.7	0.771	ND	9.6	230	ND	ND	ND	0.19	430	ND	210	ND	0.11
07/08/08	7.3	23.6	0.015	0.015	3.9	500	ND	ND	ND	0.11	400	ND	60.1	ND	0.18
10/14/08	7.8	15.0	0.012	0.012	4.55	240	ND	ND	ND	0.15	490	ND	135	ND	0.16

**Downstream**

Sample Date	pH (pH units)	Temperature (° C)	Turbidity (NTU)	Chlorine Residual (mg/L)	Dissolved Oxygen (mg/L)	Total Coliforms (MPN/100 mL)	Ammonia as N (mg/L)	Nitrite as N (mg/L)	Nitrate as N (mg/L)	TKN (mg/L)	T.D.S (mg/L)	Trihalo-Methanes (mg/L)	Total Hardness (mg/L)	Haloacetic Acids (mg/L)	Ortho-Phosphate (mg/L P)
01/14/08	7.62	10.1	1.01	ND	7.9	1300	ND	ND	4.6	0.56	430	0.0047	*	ND	0.37
04/09/08	7.82	14.0	1.64	ND	7.6	1700	ND	ND	5.6	0.69	380	0.0042	100	ND	0.33
07/08/08	7.35	22.2	1.80	0.022	6.5	2800	ND	ND	3.5	0.35	400	0.0014	31.5	ND	0.38
10/14/08	7.09	14.5	0.00	0.012	7.0	280	ND	ND	3.2	0.58	410	0.0022	69.4	ND	0.40

\*Quarterly monitoring of these parameters was not required until after the VWRA NPDES Permit Renewal in April 2008.

**SECTION 9**

**AQUATIC TOXICITY MONITORING**

VWRA  
 Aquatic Toxicity Monitoring  
 Quarterly - Annual  
 2008

FINAL EFFLUENT

Sample Date	Quarterly		Annual		Annual	
	96 Hour Acute Fathead Minnow Survival - LC50	TU a	Chronic Ceriodaphnia Survival NOEC	Chronic Ceriodaphnia Reproduction NOEC	Chronic Fathead Larvae Survival NOEC	Chronic Fathead Larvae Teratogenicity NOEC
01/15/08	100 %	0.00	100 %	100 %	100 %	100 %
02/12/08						
04/10/08	100 %	0.00			100 %	100 %
07/09/08	100 %	0.00				
10/15/08	100 %	0.00				

Sample Location/Date	Annual		Annual		Annual	
	Chronic Ceriodaphnia Survival NOEC	Chronic Ceriodaphnia Reproduction NOEC	Chronic Fathead Larvae Survival NOEC	Chronic Fathead Larvae Reproduction NOEC	TU c	TU c
Upstream 01/15/08	100.00%	1.00	<100.00%	<100.00%	>1.00	>1.00
Upstream 02/12/08			<100.00%	<100.00%	>1.00	>1.00
Downstream 01/15/08	100.00%	1.00	<100.00%	<100.00%	>1.00	>1.00
Downstream 02/12/08			100.00 %	100.00%	1.00	1.00



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH  
January 29, 2008

Ms. Gina Cloutier  
Victor Valley WWRA  
20111 Shay Road  
Victorville, CA 92394

Dear Ms. Cloutier:


We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-013*. Results were as follows:

CLIENT:	Victor Valley WRA
SAMPLE I.D.:	Final Effluent
DATE RECEIVED:	15 Jan - 08
ABC LAB. NO.:	VIC0108.196

**Chronic Fathead Larvae Survival and Teratogenicity Bioassay**

SURVIVAL	NOEC	=	100.00 %
	TU <sub>c</sub>	=	1.00
	LC25	=	83.33 %
	LC50	=	>100.00 %
TERATOGENICITY	NOEC	=	100.00 %
	TU <sub>c</sub>	=	1.00
	LC25	=	83.33 %
	LC50	=	>100.00 %

Yours very truly,



Thomas (Tim) Mikel  
Laboratory Director



**Larval Fish Growth and Survival Test-8 Day Survival**

Start Date: 1/15/2008	Test ID: VIC0108196	Sample ID: CA0000000
End Date: 1/23/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 1/14/2008	Protocol: EPA-821-R-02-013	Test Species: PP-Pimephales promelas
Comments: Final Effluent		

Conc-%	1	2	3	4
N Control	0.9333	0.6667	0.7333	1.0000
100	0.4667	0.8000	0.8667	0.2000

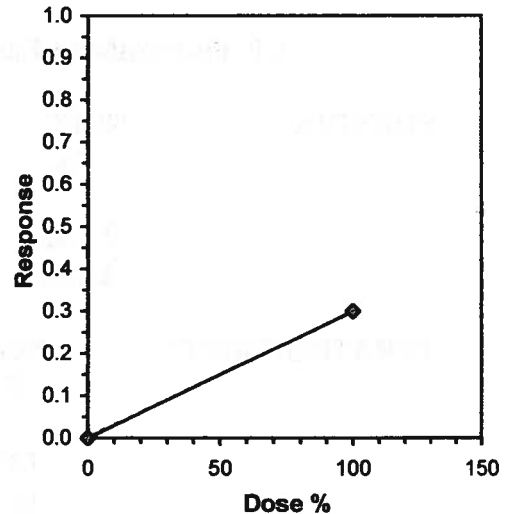
Conc-%	Mean	N-Mean	Transform: Arcsin Square Root				N	t-Stat	1-Tailed Critical	MSD	Isotonic	
			Mean	Min	Max	CV%					Mean	N-Mean
N Control	0.8333	1.0000	1.1836	0.9553	1.4413	19.425	4				0.8333	1.0000
100	0.5833	0.7000	0.8800	0.4636	1.1970	38.359	4	1.487	1.943	0.3968	0.5833	0.7000

Auxiliary Tests	Statistic	Critical	Skew	Kurt		
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.92011	0.749	-0.2709	-1.4757		
F-Test indicates equal variances (p = 0.54)	2.15532	47.4683				
Hypothesis Test (1-tail, 0.05)	MSDu	MSDp	MSB	MSE	F-Prob	df
Homoscedastic t Test indicates no significant differences Treatments vs N Control	0.35603	0.41522	0.18441	0.0834	0.18758	1, 6

**Linear Interpolation (200 Resamples)**

Point	%	SD	95% CL(Exp)	Skew
IC05*	16.667			
IC10*	33.333			
IC15*	50.000			
IC20*	66.667			
IC25*	83.333			
IC40	>100			
IC50	>100			

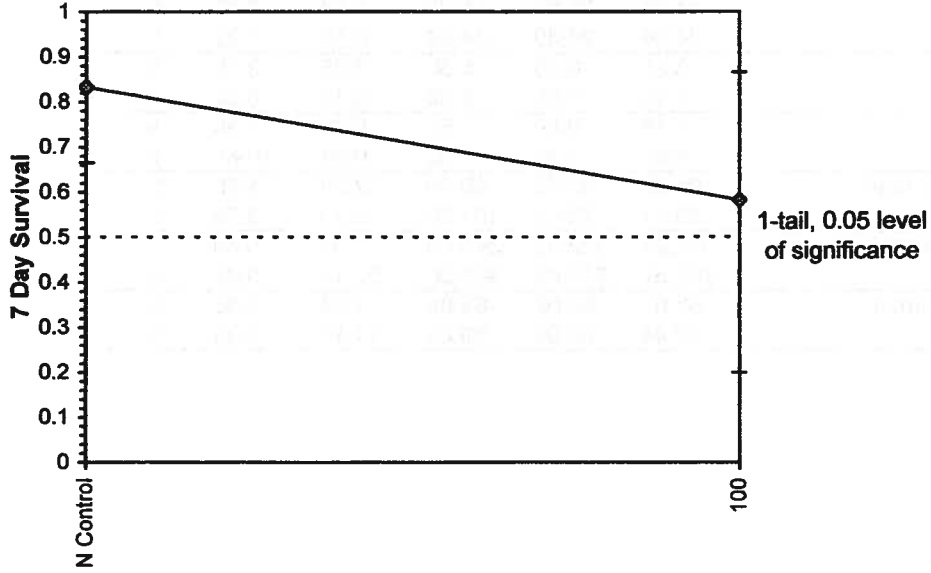
\* indicates IC estimate less than the lowest concentration



**8 Day Teratogenicity**

Start Date: 1/15/2008	Test ID: VIC0108196	Sample ID: CA0000000
End Date: 1/23/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 1/14/2008	Protocol: EPA-821-R-02-013	Test Species: PP-Pimephales promelas
Comments: Final Effluent		

**Dose-Response Plot**



**8 Day Teratogenicity**

Start Date: 1/15/2008      Test ID: VIC0108196      Sample ID: CA0000000  
End Date: 1/23/2008      Lab ID: CAABC      Sample Type: EFF1-POTW  
Sample Date: 1/14/2008      Protocol: EPA-821-R-02-013      Test Species: PP-Pimephales promelas  
Comments: Final Effluent

**Auxiliary Data Summary**

Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	24.22	24.00	25.00	0.38	2.53	9
100		24.04	24.00	24.30	0.10	1.32	9
N Control	pH	8.26	8.20	8.30	0.05	2.78	9
100		8.12	7.80	8.30	0.19	5.30	9
N Control	DO mg/L	7.16	6.50	7.50	0.32	7.86	9
100		6.90	6.20	7.90	0.56	10.81	9
N Control	Hardness mg/L	94.56	90.00	99.00	2.30	1.60	9
100		90.11	78.00	101.00	9.13	3.35	9
N Control	Cond umhos	338.22	323.00	349.00	7.34	0.80	9
100		768.67	659.00	805.00	57.15	0.98	9
N Control	Alkalinity mg/L	65.67	62.00	69.00	3.04	2.66	9
100		77.44	66.00	89.00	11.10	4.30	9

**8 Day Teratogenicity**

Start Date: 1/15/2008	Test ID: VIC0108196	Sample ID: CA0000000
End Date: 1/23/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 1/14/2008	Protocol: EPA-821-R-02-013	Test Species: PP-Pimephales promelas
Comments: Final Effluent		

Conc-%	1	2	3	4
N Control	0.9333	0.6667	0.7333	1.0000
100	0.4667	0.8000	0.8667	0.2000

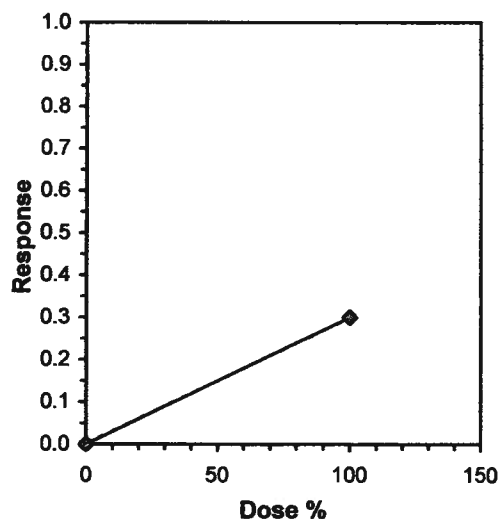
Conc-%	Mean	N-Mean	Transform: Arcsin Square Root					t-Stat	1-Tailed Critical	MSD	Isotonic	
			Mean	Min	Max	CV%	N				Mean	N-Mean
N Control	0.8333	1.0000	1.1836	0.9553	1.4413	19.425	4				0.8333	1.0000
100	0.5833	0.7000	0.8800	0.4636	1.1970	38.359	4	1.487	1.943	0.3968	0.5833	0.7000

Auxiliary Tests	Statistic	Critical	Skew	Kurt		
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.92011	0.749	-0.2709	-1.4757		
F-Test indicates equal variances (p = 0.54)	2.15532	47.4683				
<b>Hypothesis Test (1-tail, 0.05)</b>	<b>MSDu</b>	<b>MSDp</b>	<b>MSB</b>	<b>MSE</b>	<b>F-Prob</b>	<b>df</b>
Homoscedastic t Test indicates no significant differences Treatments vs N Control	0.35603	0.41522	0.18441	0.0834	0.18758	1, 6

**Linear Interpolation (200 Resamples)**

Point	%	SD	95% CL(Exp)	Skew
IC05*	16.667			
IC10*	33.333			
IC15*	50.000			
IC20*	66.667			
IC25*	83.333			
IC40	>100			
IC50	>100			

\* indicates IC estimate less than the lowest concentration







TOXICITY TESTING • OCEANOGRAPHIC RESEARCH  
January 29, 2008

Ms. Gina Cloutier  
Victor Valley WRA  
20111 Shay Road  
Victorville, CA 92394

Dear Ms. Cloutier:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013*. Results were as follows:

CLIENT:	Victor Valley WRA
SAMPLE I.D.:	Final Effluent
DATE RECEIVED:	15 Jan - 08
ABC LAB. NO.:	VIC0108.196

**CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY**

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	LC25 =	N/A
	LC50 =	N/A

REPRODUCTION	NOEC =	100.00 %
	TUc =	1.00
	LC25 =	N/A
	LC50 =	N/A

Yours very truly,

Thomas (Tim) Mikel  
Laboratory Director

**Ceriodaphnia Survival and Reproduction Test-7 Day Survival**

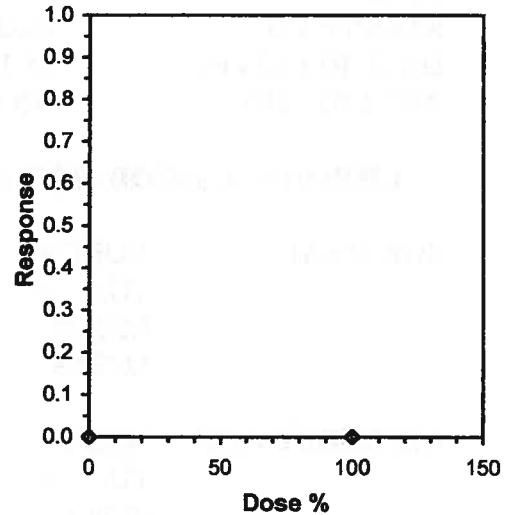
Start Date: 1/15/2008	Test ID: VIC0108196	Sample ID: CA0000000
End Date: 1/23/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 1/14/2008	Protocol: EPA-821-R-02-013	Test Species: CD-Ceriodaphnia dubia
Comments: Final Effluent		

Conc-%	1	2	3	4	5	6	7	8	9	10
N Control	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Conc-%	Mean	N-Mean	Resp	Not Resp	Total	N	Fisher's 1-Tailed		Isotonic	
							Exact P	Critical	Mean	N-Mean
N Control	1.0000	1.0000	0	10	10	10			1.0000	1.0000
100	1.0000	1.0000	0	10	10	10	1.0000	0.0500	1.0000	1.0000

Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU
Fisher's Exact Test	100	>100		1
Treatments vs N Control				

Point	%	SD	Linear Interpolation (200 Resamples)	
			95% CL	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			



**Ceriodaphnia Survival and Reproduction Test-Reproduction**

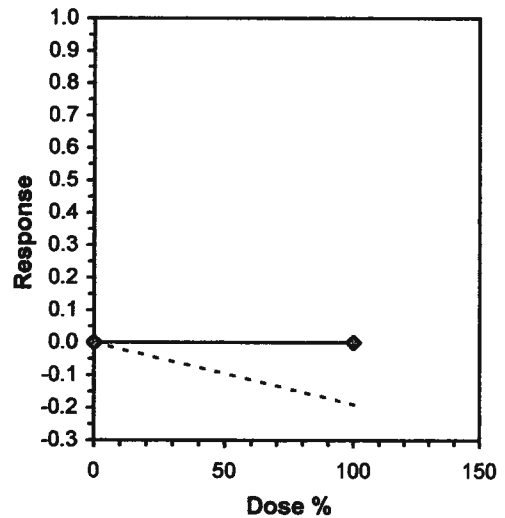
Start Date: 1/15/2008	Test ID: VIC0108196	Sample ID: CA0000000
End Date: 1/23/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 1/14/2008	Protocol: EPA-821-R-02-013	Test Species: CD-Ceriodaphnia dubia
Comments: Final Effluent		

Conc-%	1	2	3	4	5	6	7	8	9	10
N Control	24.000	11.000	24.000	25.000	23.000	20.000	14.000	16.000	15.000	16.000
100	17.000	18.000	22.000	21.000	22.000	28.000	25.000	27.000	22.000	22.000

Conc-%	Mean	N-Mean	Transform: Untransformed					N	t-Stat	1-Tailed Critical	MSD	Isotonic	
			Mean	Min	Max	CV%	Mean					N-Mean	
N Control	18.800	1.0000	18.800	11.000	25.000	26.631	10				20.600	1.0000	
100	22.400	1.1915	22.400	17.000	28.000	15.636	10	-1.863	1.730	3.343	20.600	1.0000	

Auxiliary Tests	Statistic	Critical	Skew	Kurt						
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.94385	0.868	-0.0343	-1.1085						
F-Test indicates equal variances (p = 0.30)	2.04348	6.54109								
<b>Hypothesis Test (1-tail, 0.05)</b>	<b>NOEC</b>	<b>LOEC</b>	<b>ChV</b>	<b>TU</b>	<b>MSDu</b>	<b>MSDp</b>	<b>MSB</b>	<b>MSE</b>	<b>F-Prob</b>	<b>df</b>
Dunnett's Test	100	>100		1	3.34268	0.1778	64.8	18.6667	0.07884	1, 18
Treatments vs N Control										

Linear Interpolation (200 Resamples)				
Point	%	SD	95% CL	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			

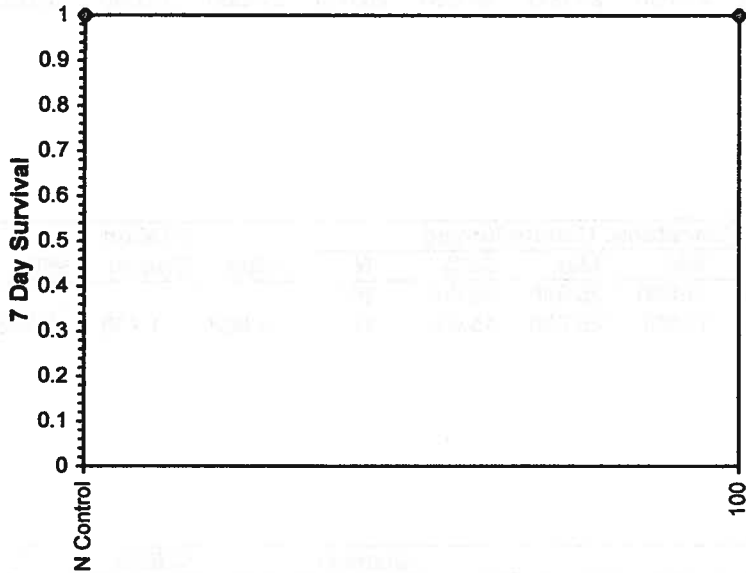




**Ceriodaphnia Survival and Reproduction Test-7 Day Survival**

Start Date: 1/15/2008	Test ID: VIC0108196	Sample ID: CA0000000
End Date: 1/23/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 1/14/2008	Protocol: EPA-821-R-02-013	Test Species: CD-Ceriodaphnia dubia
Comments: Final Effluent		

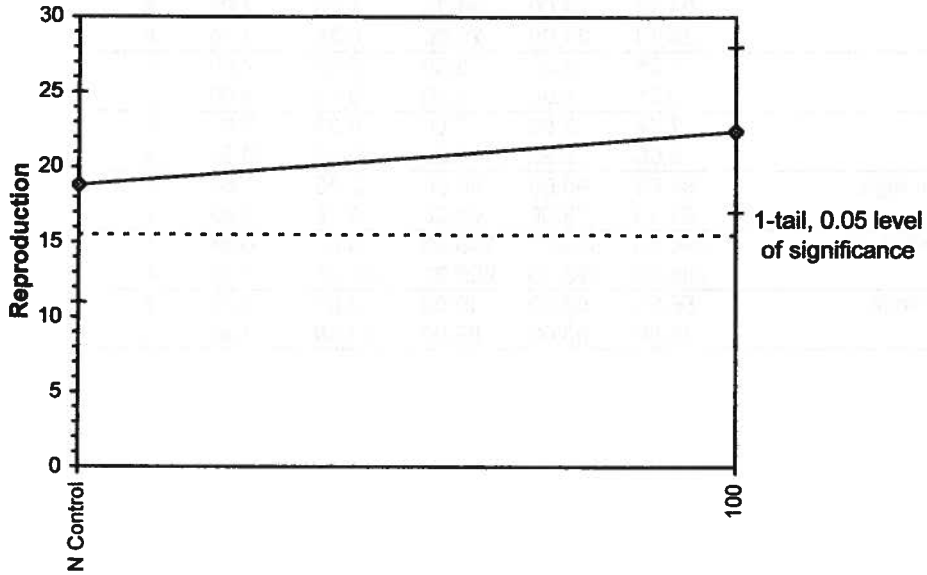
**Dose-Response Plot**



**Ceriodaphnia Survival and Reproduction Test-Reproduction**

Start Date: 1/15/2008	Test ID: VIC0108196	Sample ID: CA0000000
End Date: 1/23/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 1/14/2008	Protocol: EPA-821-R-02-013	Test Species: CD-Ceriodaphnia dubia
Comments: Final Effluent		

**Dose-Response Plot**



**Ceriodaphnia Survival and Reproduction Test-Reproduction**

Start Date: 1/15/2008	Test ID: VIC0108196	Sample ID: CA0000000
End Date: 1/23/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 1/14/2008	Protocol: EPA-821-R-02-013	Test Species: CD-Ceriodaphnia dubia
Comments: Final Effluent		

**Auxiliary Data Summary**

Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	24.13	24.00	24.70	0.25	2.09	8
100		24.18	24.00	25.00	0.35	2.45	8
N Control	pH	8.25	8.20	8.30	0.05	2.80	8
100		8.21	8.00	8.30	0.11	4.09	8
N Control	DO mg/L	7.18	6.50	7.50	0.33	8.04	8
100		6.96	6.20	7.90	0.52	10.34	8
N Control	Hardness mg/L	94.63	90.00	99.00	2.45	1.65	8
100		91.13	78.00	101.00	9.75	3.43	8
N Control	Cond-umhos	340.13	334.00	349.00	4.94	0.65	8
100		738.00	323.00	805.00	167.75	1.75	8
N Control	Alkalinity mg/L	66.00	62.00	69.00	3.07	2.66	8
100		78.50	63.00	89.00	11.49	4.32	8



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH  
January 29, 2008

Ms. Gina Cloutier  
Victor Valley WWRA  
20111 Shay Road  
Victorville, CA 92394

Dear Ms. Cloutier:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-012*.

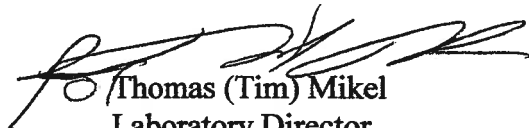
Results were as follows:

CLIENT:	Victor Valley WRA
SAMPLE I.D.:	Final Effluent
DATE RECEIVED:	15 Jan - 08
ABC LAB. NO.:	VIC0108.195

#### **96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY**

LC50	=	100 % Survival in 100 % Sample
TUa	=	0.00

Yours very truly,

  
Thomas (Tim) Mikel  
Laboratory Director

**-96 Hr Survival**

Start Date: 1/15/2008	Test ID: VIC0108195	Sample ID: CA0000000
End Date: 1/19/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 1/14/2008	Protocol: EPA-821-R-02-012	Test Species: PP-Pimephales promelas
Comments: Final Effluent		

Conc-%	1	2	3	4
N Control	1.0000	1.0000	1.0000	1.0000
100	1.0000	1.0000		

Conc-%	Mean	N-Mean	Transform: Arcsin Square Root					N	Isotonic	
			Mean	Min	Max	CV%	Mean		N-Mean	
N Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	4	1.0000	1.0000	
100	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	1.0000	1.0000	

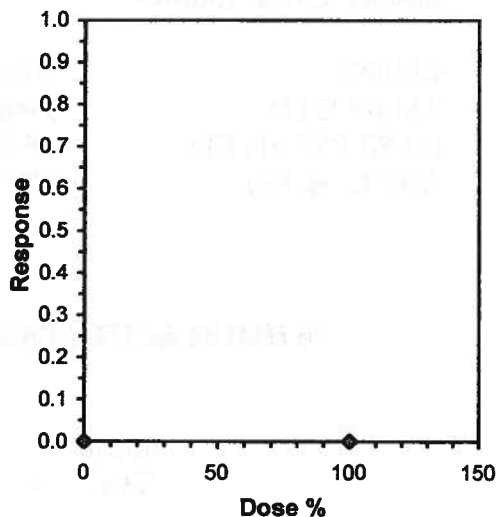
**Auxiliary Tests**

Shapiro-Wilk's Test indicates normal distribution ( $p > 0.01$ )  
 Equality of variance cannot be confirmed

Statistic	Critical	Skew	Kurt
1	0.713		

**Linear Interpolation (200 Resamples)**

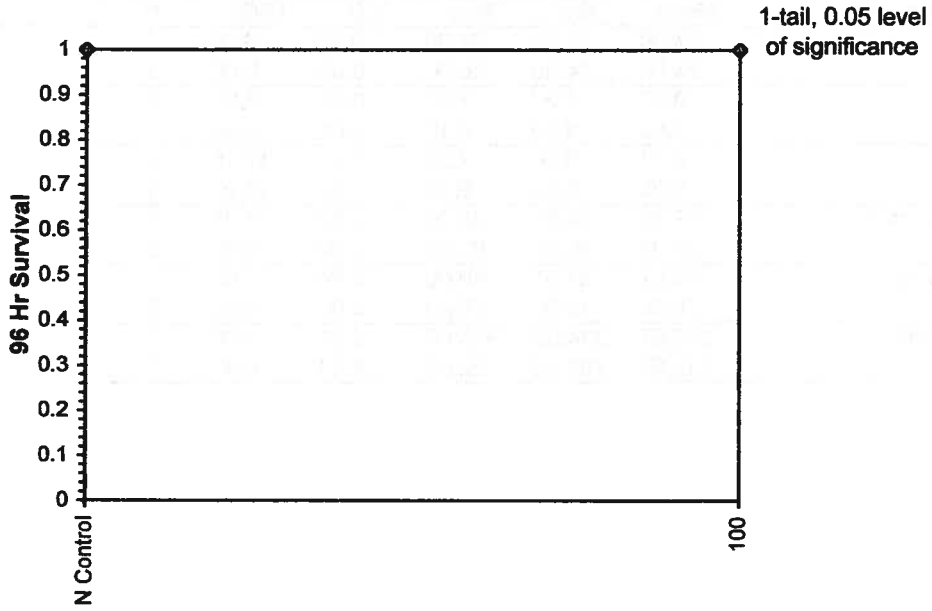
Point	%	SD	95% CL(Exp)	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			



**-96 Hr Survival**

Start Date: 1/15/2008	Test ID: VIC0108195	Sample ID: CA0000000
End Date: 1/19/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 1/14/2008	Protocol: EPA-821-R-02-012	Test Species: PP-Pimephales promelas
Comments: Final Effluent		

**Dose-Response Plot**



**-96 Hr Survival**

Start Date: 1/15/2008	Test ID: VIC0108195	Sample ID: CA0000000
End Date: 1/19/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 1/14/2008	Protocol: EPA-821-R-02-012	Test Species: PP-Pimephales promelas
Comments: Final Effluent		

**Auxiliary Data Summary**

Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	24.00	24.00	24.00	0.00	0.00	3
100		24.00	24.00	24.00	0.00	0.00	3
N Control	pH	8.27	8.20	8.30	0.06	2.91	3
100		8.03	8.00	8.10	0.06	2.99	3
N Control	DO mg/L	6.77	6.00	7.30	0.68	12.19	3
100		6.83	6.00	8.00	1.04	14.93	3
N Control	Hardness mg/L	97.33	94.00	99.00	2.89	1.75	3
100		90.00	90.00	90.00	0.00	0.00	3
N Control	Alkalinitymg/L	66.67	62.00	69.00	4.04	3.02	3
100		79.00	79.00	79.00	0.00	0.00	3
N Control	Conductivity	339.67	334.00	345.00	5.51	0.69	3
100		712.67	707.00	722.00	8.14	0.40	3



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH  
January 29, 2008

Ms. Gina Cloutier  
Victor Valley WWRA  
20111 Shay Road  
Victorville, CA 92394

Dear Ms. Cloutier:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-013*.

Results were as follows:

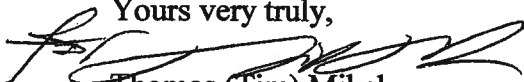
CLIENT:	Victor Valley WRA
SAMPLE I.D.:	Upstream Mojave River
DATE RECEIVED:	15 Jan - 08
ABC LAB. NO.:	VIC0108.197

**Chronic Fathead Larvae Survival and Teratogenicity Bioassay**

SURVIVAL	NOEC	=	< 100.00 %
	TU <sub>c</sub>	=	>1.00
	LC25	=	52.08 %
	LC50	=	>100.00 %

TERATOGENICITY	NOEC	=	<100.00 %
	TU <sub>c</sub>	=	>1.00
	LC25	=	52.08 %
	LC50	=	>100.00 %

Yours very truly,



Thomas (Tim) Mikel  
Laboratory Director



**Larval Fish Growth and Survival Test-8 Day Survival**

Start Date: 1/15/2008	Test ID: VIC0108197	Sample ID: CA0000000
End Date: 1/23/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 1/14/2008	Protocol: EPA-821-R-02-013	Test Species: PP-Pimephales promelas
Comments: Upstream Mojave River		

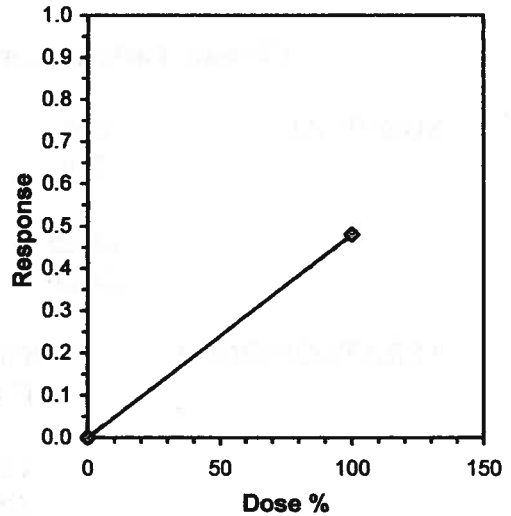
Conc-%	1	2	3	4
N Control	0.9333	0.6667	0.7333	1.0000
100	0.6667	0.3333	0.4000	0.3333

Conc-%	Mean	N-Mean	Transform: Arcsin Square Root					N	t-Stat	1-Tailed Critical	MSD	Isotonic	
			Mean	Min	Max	CV%	Mean					N-Mean	
N Control	0.8333	1.0000	1.1836	0.9553	1.4413	19.425	4				0.8333	1.0000	
*100	0.4333	0.5200	0.7177	0.6155	0.9553	22.530	4	3.315	1.943	0.2731	0.4333	0.5200	

Auxiliary Tests	Statistic	Critical	Skew	Kurt		
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.90112	0.749	0.44927	-1.5004		
F-Test indicates equal variances (p = 0.58)	2.0216	47.4683				
Hypothesis Test (1-tail, 0.05)	MSDu	MSDp	MSB	MSE	F-Prob	df
Homoscedastic t Test indicates significant differences Treatments vs N Control	0.23362	0.27247	0.43406	0.03951	0.01611	1, 6

Linear Interpolation (200 Resamples)					
Point	%	SD	95% CL(Exp)		Skew
IC05*	10.417	2.848	5.454	25.375	2.5821
IC10*	20.833	5.696	10.908	50.750	2.5821
IC15*	31.250	8.545	16.362	76.126	2.5821
IC20*	41.667				
IC25*	52.083				
IC40*	83.333				
IC50	>100				

\* indicates IC estimate less than the lowest concentration





**8 Day Teratogenicity**

Start Date: 1/15/2008	Test ID: VIC0108197	Sample ID: CA0000000
End Date: 1/23/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 1/14/2008	Protocol: EPA-821-R-02-013	Test Species: PP-Pimephales promelas
Comments: Upstream Mojave River		

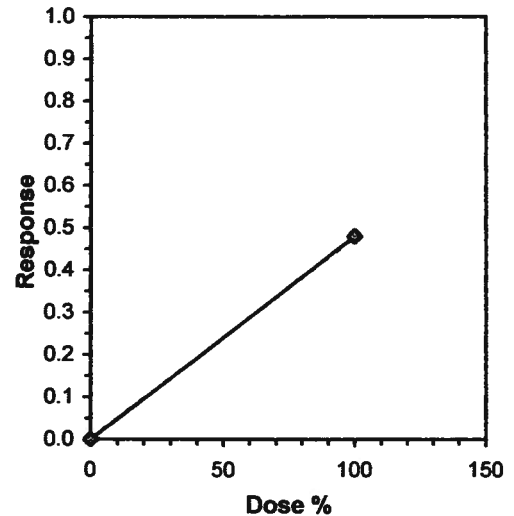
Conc-%	1	2	3	4
N Control	0.9333	0.6667	0.7333	1.0000
100	0.6667	0.3333	0.4000	0.3333

Conc-%	Mean	N-Mean	Transform: Arcsin Square Root				N	t-Stat	1-Tailed Critical	MSD	Isotonic	
			Mean	Min	Max	CV%					Mean	N-Mean
N Control	0.8333	1.0000	1.1836	0.9553	1.4413	19.425	4				0.8333	1.0000
*100	0.4333	0.5200	0.7177	0.6155	0.9553	22.530	4	3.315	1.943	0.2731	0.4333	0.5200

Auxiliary Tests	Statistic	Critical	Skew	Kurt		
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.90112	0.749	0.44927	-1.5004		
F-Test indicates equal variances (p = 0.58)	2.0216	47.4683				
Hypothesis Test (1-tail, 0.05)	MSDu	MSDp	MSB	MSE	F-Prob	df
Homoscedastic t Test indicates significant differences Treatments vs N Control	0.23362	0.27247	0.43406	0.03951	0.01611	1, 6

Linear Interpolation (200 Resamples)					
Point	%	SD	95% CL(Exp)		Skew
IC05*	10.417	3.811	5.167	27.750	5.9329
IC10*	20.833				
IC15*	31.250				
IC20*	41.667				
IC25*	52.083				
IC40*	83.333				
IC50	>100				

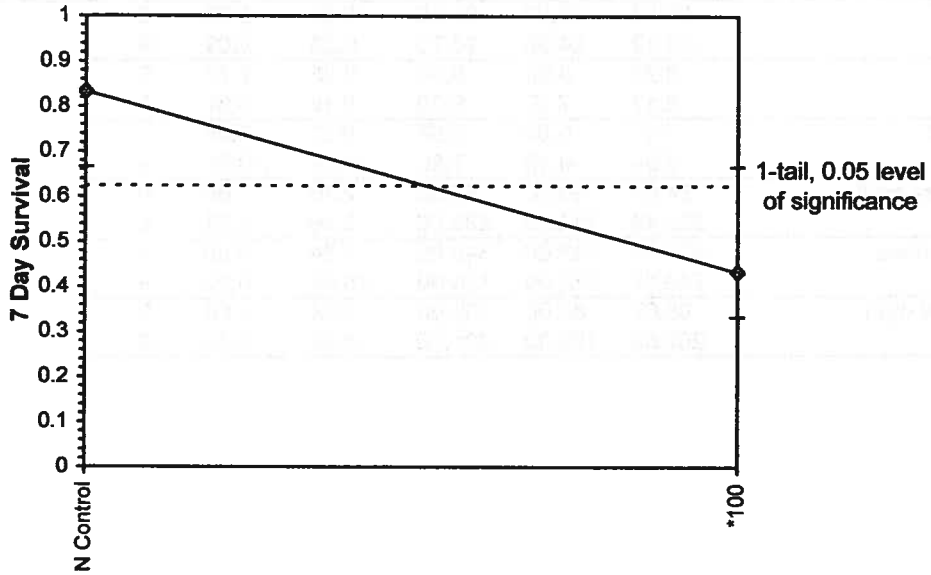
\* indicates IC estimate less than the lowest concentration



**8 Day Teratogenicity**

Start Date: 1/15/2008	Test ID: VIC0108197	Sample ID: CA0000000
End Date: 1/23/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 1/14/2008	Protocol: EPA-821-R-02-013	Test Species: PP-Pimephales promelas
Comments: Upstream Mojave River		

**Dose-Response Plot**

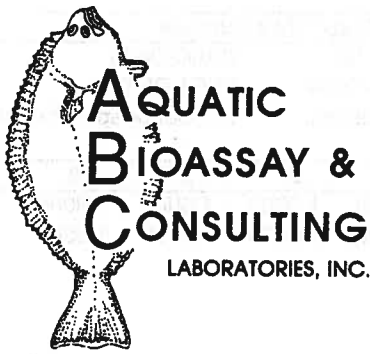


**8 Day Teratogenicity**

Start Date: 1/15/2008	Test ID: VIC0108197	Sample ID: CA0000000
End Date: 1/23/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 1/14/2008	Protocol: EPA-821-R-02-013	Test Species: PP-Pimephales promelas
Comments: Upstream Mojave River		

**Auxiliary Data Summary**

Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	24.23	24.00	25.00	0.38	2.55	9
100		24.12	24.00	24.70	0.25	2.09	9
N Control	pH	8.26	8.20	8.30	0.05	2.78	9
100		8.17	7.90	8.30	0.16	4.87	9
N Control	DO mg/L	7.16	6.50	7.50	0.32	7.86	9
100		6.98	6.10	7.80	0.54	10.58	9
N Control	Hardness mg/L	94.56	90.00	99.00	2.30	1.60	9
100		222.44	212.00	233.00	8.49	1.31	9
N Control	Cond umhos	338.22	323.00	349.00	7.34	0.80	9
100		749.67	722.00	759.00	15.46	0.52	9
N Control	Alkalinity mg/L	65.67	62.00	69.00	3.04	2.66	9
100		207.56	198.00	221.00	8.92	1.44	9



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH  
January 29, 2008

Ms. Gina Cloutier  
Victor Valley WWRA  
20111 Shay Road  
Victorville, CA 92394

Dear Ms. Cloutier:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013*. Results were as follows:

CLIENT:	Victor Valley WRA
SAMPLE I.D.:	Upstream Mojave River
DATE RECEIVED:	15 Jan - 08
ABC LAB. NO.:	VIC0108.197

**CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY**

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	LC25 =	N/A
	LC50 =	N/A

REPRODUCTION	NOEC =	100.00 %
	TUc =	1.00
	LC25 =	N/A
	LC50 =	N/A

Yours very truly,



Thomas (Tim) Mikel  
Laboratory Director

**Ceriodaphnia Survival and Reproduction Test-7 Day Survival**

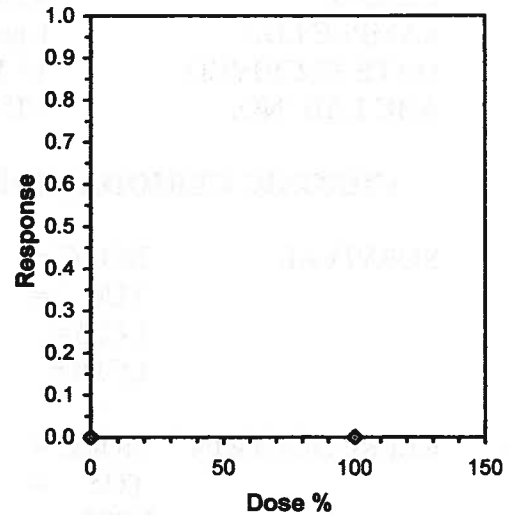
Start Date: 1/15/2008	Test ID: VIC0108197	Sample ID: CA0000000
End Date: 1/23/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 1/14/2008	Protocol: EPA-821-R-02-013	Test Species: CD-Ceriodaphnia dubia
Comments: Upstream Mojave River		

Conc-%	1	2	3	4	5	6	7	8	9	10
N Control	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Conc-%	Mean	N-Mean	Resp	Not Resp	Total	N	Fisher's Exact P	1-Tailed Critical	Isotonic Mean	N-Mean
N Control	1.0000	1.0000	0	10	10	10			1.0000	1.0000
100	1.0000	1.0000	0	10	10	10	1.0000	0.0500	1.0000	1.0000

Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU
Fisher's Exact Test	100	>100		1
Treatments vs N Control				

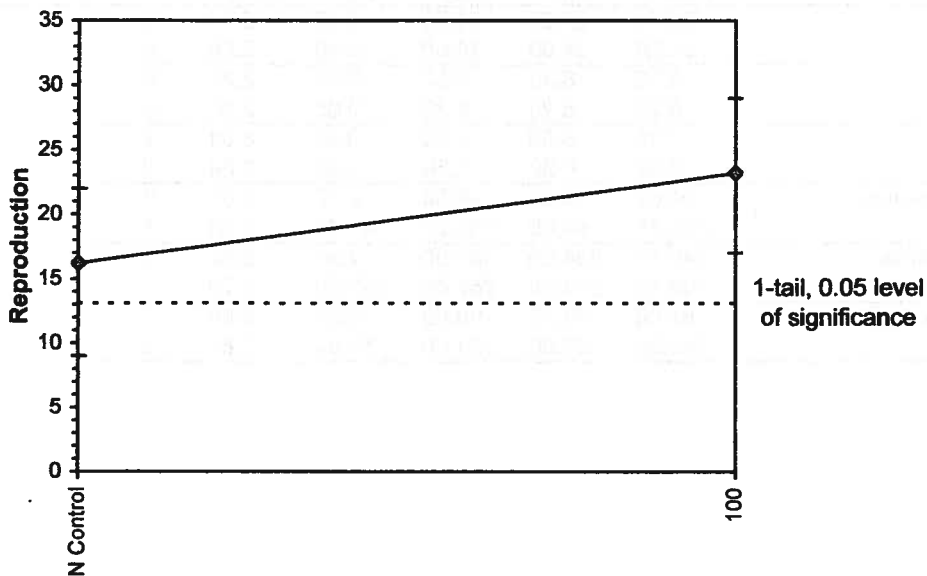
Linear Interpolation (200 Resamples)				
Point	%	SD	95% CL	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			



**Ceriodaphnia Survival and Reproduction Test-Reproduction**

Start Date: 1/15/2008      Test ID: VIC0108197      Sample ID: CA0000000  
End Date: 1/23/2008      Lab ID: CAABC      Sample Type: EFF1-POTW  
Sample Date: 1/14/2008      Protocol: EPA-821-R-02-013      Test Species: CD-Ceriodaphnia dubia  
Comments: Upstream Mojave River

**Dose-Response Plot**





**Ceriodaphnia Survival and Reproduction Test-Reproduction**

Start Date: 1/15/2008 Test ID: VIC0108197 Sample ID: CA0000000  
End Date: 1/23/2008 Lab ID: CAABC Sample Type: EFF1-POTW  
Sample Date: 1/14/2008 Protocol: EPA-821-R-02-013 Test Species: CD-Ceriodaphnia dubia  
Comments: Upstream Mojave River

**Auxiliary Data Summary**

Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	24.14	24.00	24.70	0.27	2.14	8
100		24.26	24.00	25.00	0.40	2.59	8
N Control	pH	8.25	8.20	8.30	0.05	2.80	8
100		8.25	8.20	8.30	0.05	2.80	8
N Control	DO mg/L	7.18	6.50	7.50	0.33	8.04	8
100		6.99	6.30	7.50	0.36	8.64	8
N Control	Hardness mg/L	94.63	90.00	99.00	2.45	1.65	8
100		205.75	94.00	233.00	46.03	3.30	8
N Control	Cond-umhos	340.13	334.00	349.00	4.94	0.65	8
100		703.13	323.00	759.00	153.60	1.76	8
N Control	Alkalinity mg/L	66.00	62.00	69.00	3.07	2.66	8
100		189.38	63.00	221.00	51.94	3.81	8

**Ceriodaphnia Survival and Reproduction Test-Reproduction**

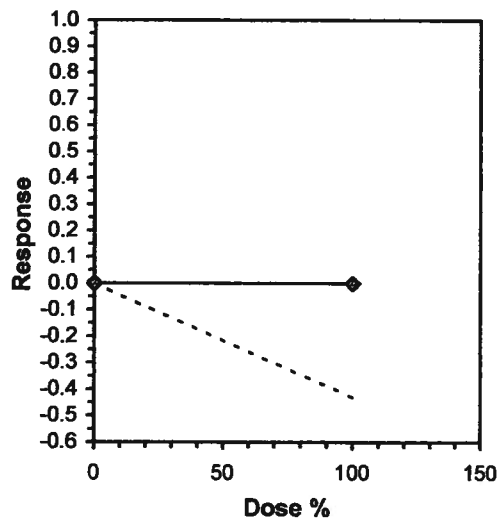
Start Date: 1/15/2008	Test ID: VIC0108197	Sample ID: CA0000000
End Date: 1/23/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 1/14/2008	Protocol: EPA-821-R-02-013	Test Species: CD-Ceriodaphnia dubia
Comments: Upstream Mojave River		

Conc-%	1	2	3	4	5	6	7	8	9	10
N Control	20.000	20.000	19.000	16.000	16.000	22.000	16.000	14.000	9.000	10.000
100	23.000	29.000	24.000	23.000	26.000	26.000	17.000	23.000	24.000	17.000

Conc-%	Mean	N-Mean	Transform: Untransformed					N	t-Stat	1-Tailed Critical	MSD	Isotonic	
			Mean	Min	Max	CV%	Mean					N-Mean	
N Control	16.200	1.0000	16.200	9.000	22.000	26.479	10				19.700	1.0000	
100	23.200	1.4321	23.200	17.000	29.000	16.230	10	-3.878	1.730	3.123	19.700	1.0000	

Auxiliary Tests	Statistic	Critical	Skew	Kurt						
Shapiro-Wilk's Test indicates normal distribution ( $p > 0.01$ )	0.90815	0.868	-0.5133	-0.5028						
F-Test indicates equal variances ( $p = 0.70$ )	1.29781	6.54109								
Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU	MSDu	MSDp	MSB	MSE	F-Prob	df
Dunnett's Test Treatments vs N Control	100	>100		1	3.12253	0.19275	245	16.2889	0.0011	1, 18

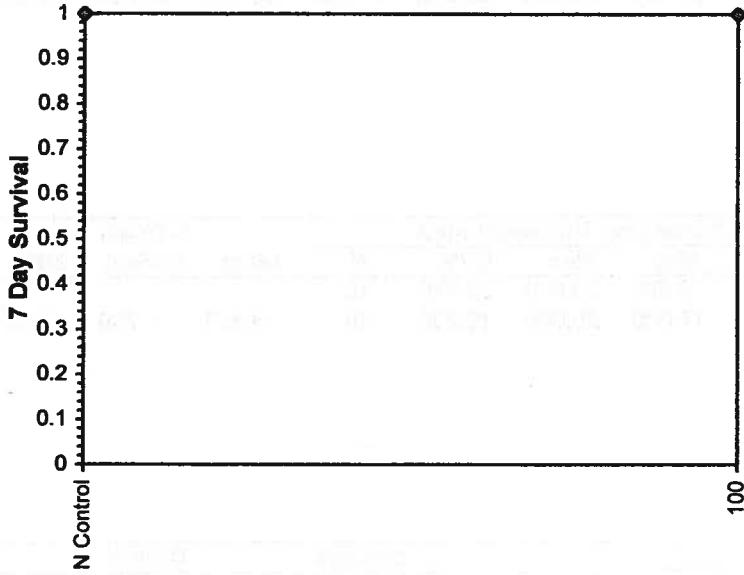
Point	%	SD	Linear Interpolation (200 Resamples)	
			95% CL	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			



**Ceriodaphnia Survival and Reproduction Test-7 Day Survival**

Start Date: 1/15/2008	Test ID: VIC0108197	Sample ID: CA0000000
End Date: 1/23/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 1/14/2008	Protocol: EPA-821-R-02-013	Test Species: CD-Ceriodaphnia dubia
Comments: Upstream Mojave River		

**Dose-Response Plot**







# CHAIN OF CUSTODY RECORD

<b>Client:</b> Victor Valley WW Reclamation Authority Address 20111 Shay Road Victorville, CA 92394 <b>Phone Number:</b> 760-246-8638 x216	<b>Project Name/Number:</b> Annual Chronic Bioassay Project Mgr. Gina Cloutier P.O. # N/A Sampled By (signature) <i>[Signature]</i>	<b>Volume/ Number</b> 1 x 1gal	<b>Sample ID</b> Final Effluent
<b>Date</b> 1-18-08 0540	<b>Matrix</b> WW	<b>Comp</b> <input checked="" type="checkbox"/>	<b>Final Effluent</b>
Chronic 8day Fm (100%) Teratogenicity Chronic Derivaphnia			
Analysis			
[Empty grid for analysis results]			
<b>Reinquired By (signature)</b> <i>[Signature]</i>			<b>Date: Time:</b> 1-18-08 0550
<b>Received By (signature)</b> <i>[Signature]</i>			<b>Date: Time:</b> 1/17/08 1100
Temp. upon sample receipt: 6.0 °C (Signature)			









TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

January 29, 2008

Ms. Gina Cloutier  
Victor Valley WWRA  
20111 Shay Road  
Victorville, CA 92394

Dear Ms. Cloutier:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-013*.

Results were as follows:

CLIENT:	Victor Valley WRA
SAMPLE I.D.:	Downstream Mojave River
DATE RECEIVED:	15 Jan - 08
ABC LAB. NO.:	VIC0108.198

**Chronic Fathead Larvae Survival and Teratogenicity Bioassay**

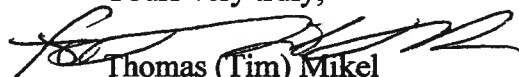
SURVIVAL	NOEC	=	< 100.00 %
	TU <sub>c</sub>	=	> 1.00

LC25	=	46.10 %
LC50	=	86.21 %

TERATOGENICITY	NOEC	=	< 100.00 %
	TU <sub>c</sub>	=	> 1.00

LC25	=	46.10 %
LC50	=	86.21 %

Yours very truly,

  
Thomas (Tim) Mikel  
Laboratory Director

**Larval Fish Growth and Survival Test-8 Day Survival**

Start Date: 1/15/2008	Test ID: VIC0108198	Sample ID: CA0000000
End Date: 1/23/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 1/14/2008	Protocol: EPA-821-R-02-013	Test Species: PP-Pimephales promelas
Comments: Downstream Mojave River		

Conc-%	1	2	3	4
N Control	0.9333	0.6667	0.7333	1.0000
100	0.1333	0.2667	0.5333	0.4667

Conc-%	Mean	N-Mean	Transform: Arcsin Square Root				N	t-Stat	1-Tailed Critical	MSD	Isotonic	
			Mean	Min	Max	CV%					Mean	N-Mean
N Control	0.8333	1.0000	1.1836	0.9553	1.4413	19.425	4				0.8333	1.0000
*100	0.3500	0.4200	0.6218	0.3738	0.8188	32.634	4	3.664	1.943	0.2979	0.3500	0.4200

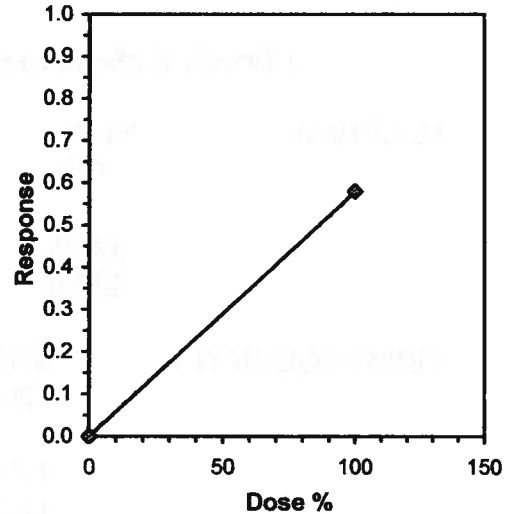
**Auxiliary Tests**

Statistic	Critical	Skew	Kurt			
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.893	0.749	-0.0574			
F-Test indicates equal variances (p = 0.84)	1.28383	47.4683				
Hypothesis Test (1-tail, 0.05)	MSDu	MSDp	MSB	MSE	F-Prob	df
Homoscedastic t Test indicates significant differences Treatments vs N Control	0.25783	0.30071	0.63125	0.04702	0.01053	1, 6

**Linear Interpolation (200 Resamples)**

Point	%	SD	95% CL(Exp)		Skew
IC05*	8.621	1.890	4.013	18.528	1.1856
IC10*	17.241	3.780	8.026	37.055	1.1856
IC15*	25.862	5.670	12.040	55.583	1.1856
IC20*	34.483	7.560	16.053	74.110	1.1856
IC25*	43.103	9.450	20.066	92.638	1.1856
IC40*	68.966				
IC50*	86.207				

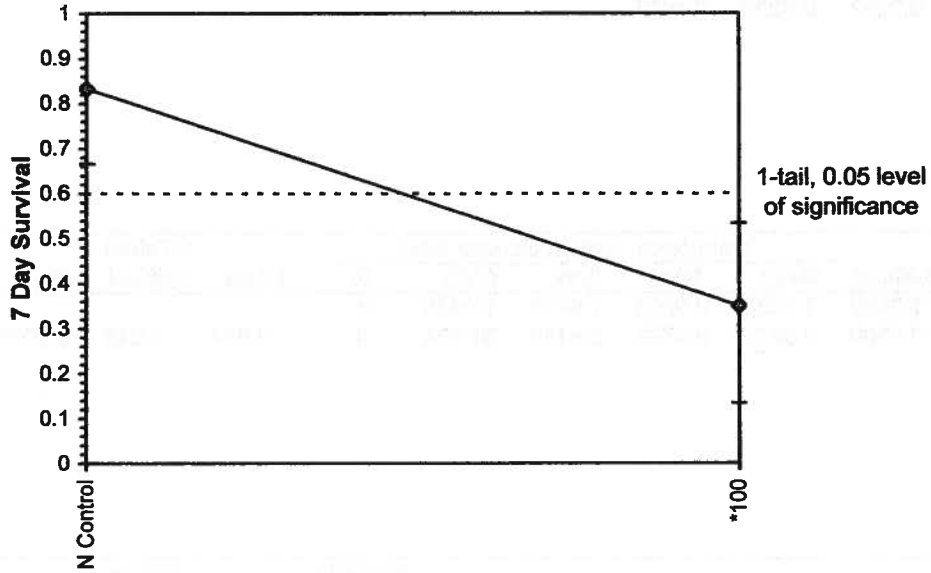
\* indicates IC estimate less than the lowest concentration



Larval Fish Growth and Survival Test-8 Day Survival

Start Date: 1/15/2008 Test ID: VIC0108198 Sample ID: CA0000000  
End Date: 1/23/2008 Lab ID: CAABC Sample Type: EFF1-POTW  
Sample Date: 1/14/2008 Protocol: EPA-821-R-02-013 Test Species: PP-Pimephales promelas  
Comments: Downstream Mojave River

Dose-Response Plot



**8 Day Teratogenicity**

Start Date: 1/15/2008	Test ID: VIC0108198	Sample ID: CA0000000
End Date: 1/23/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 1/14/2008	Protocol: EPA-821-R-02-013	Test Species: PP-Pimephales promelas
Comments: Downstream Mojave River		

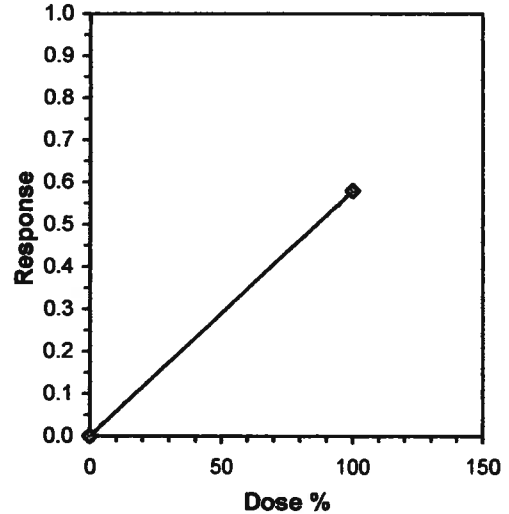
Conc-%	1	2	3	4
N Control	0.9333	0.6667	0.7333	1.0000
100	0.1333	0.2667	0.5333	0.4667

Conc-%	Mean	N-Mean	Transform: Arcsin Square Root				N	t-Stat	1-Tailed Critical	MSD	Isotonic	
			Mean	Min	Max	CV%					Mean	N-Mean
N Control	0.8333	1.0000	1.1836	0.9553	1.4413	19.425	4				0.8333	1.0000
*100	0.3500	0.4200	0.6218	0.3738	0.8188	32.634	4	3.664	1.943	0.2979	0.3500	0.4200

Auxiliary Tests	Statistic	Critical	Skew	Kurt		
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.893	0.749	-0.0574	-2.0336		
F-Test indicates equal variances (p = 0.84)	1.28383	47.4683				
Hypothesis Test (1-tail, 0.05)	MSDu	MSDp	MSB	MSE	F-Prob	df
Homoscedastic t Test indicates significant differences	0.25783	0.30071	0.63125	0.04702	0.01053	1, 6
Treatments vs N Control						

Point	%	SD	Linear Interpolation (200 Resamples)		Skew
			95% CL(Exp)		
IC05*	8.621	1.852	3.642	19.576	1.2562
IC10*	17.241	3.705	7.284	39.151	1.2562
IC15*	25.862	5.557	10.927	58.727	1.2562
IC20*	34.483	7.409	14.569	78.302	1.2562
IC25*	43.103	9.262	18.211	97.878	1.2562
IC40*	68.966				
IC50*	86.207				

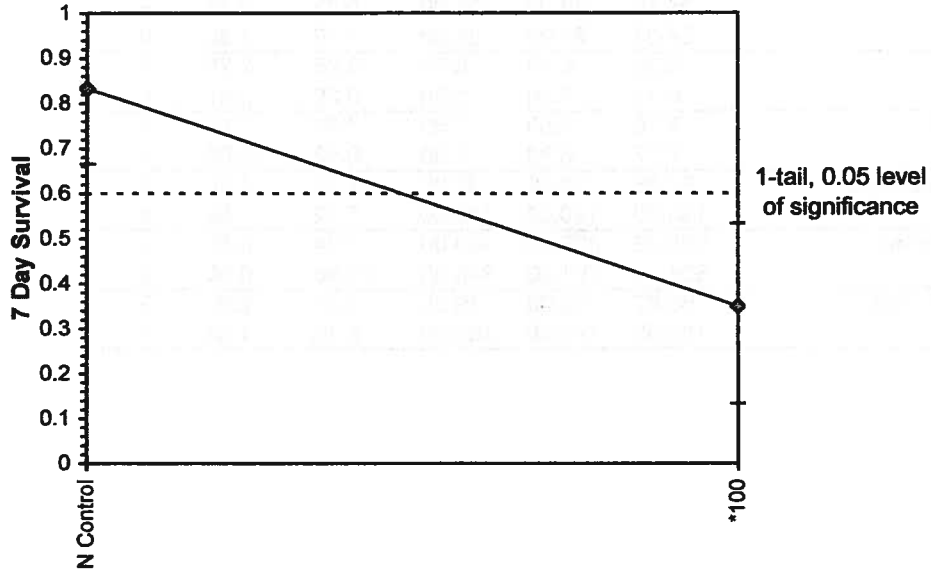
\* indicates IC estimate less than the lowest concentration



**8 Day Teratogenicity**

Start Date: 1/15/2008	Test ID: VIC0108198	Sample ID: CA0000000
End Date: 1/23/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 1/14/2008	Protocol: EPA-821-R-02-013	Test Species: PP-Pimephales promelas
Comments: Downstream Mojave River		

**Dose-Response Plot**



**8 Day Teratogenicity**

Start Date: 1/15/2008      Test ID: VIC0108198      Sample ID: CA0000000  
End Date: 1/23/2008      Lab ID: CAABC      Sample Type: EFF1-POTW  
Sample Date: 1/14/2008      Protocol: EPA-821-R-02-013      Test Species: PP-Pimephales promelas  
Comments: Downstream Mojave River

**Auxiliary Data Summary**

Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	24.16	24.00	25.00	0.33	2.39	9
100		24.04	24.00	24.30	0.10	1.32	9
N Control	pH	8.26	8.20	8.30	0.05	2.78	9
100		8.11	7.80	8.30	0.20	5.47	9
N Control	DO mg/L	7.16	6.50	7.50	0.32	7.86	9
100		7.17	6.30	7.90	0.52	10.06	9
N Control	Hardness mg/L	94.56	90.00	99.00	2.30	1.60	9
100		135.00	130.00	142.00	5.12	1.68	9
N Control	Cond umhos	338.22	323.00	349.00	7.34	0.80	9
100		821.44	781.00	848.00	23.65	0.59	9
N Control	Alkalinity mg/L	65.67	62.00	69.00	3.04	2.66	9
100		155.56	147.00	163.00	8.13	1.83	9



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH  
January 29, 2008

Ms. Gina Cloutier  
Victor Valley WWRA  
20111 Shay Road  
Victorville, CA 92394

Dear Ms. Cloutier:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013*. Results were as follows:

CLIENT:	Victor Valley WRA
SAMPLE I.D.:	Downstream Mojave River
DATE RECEIVED:	15 Jan - 08
ABC LAB. NO.:	VIC0108.198

**CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY**

SURVIVAL	NOEC =	100.00 %
	TU <sub>c</sub> =	1.00
	LC25 =	N/A
	LC50 =	N/A

REPRODUCTION	NOEC =	100.00 %
	TU <sub>c</sub> =	1.00
	LC25 =	N/A
	LC50 =	N/A

Yours very truly,

Thomas (Tim) Mikel  
Laboratory Director

**Ceriodaphnia Survival and Reproduction Test-7 Day Survival**

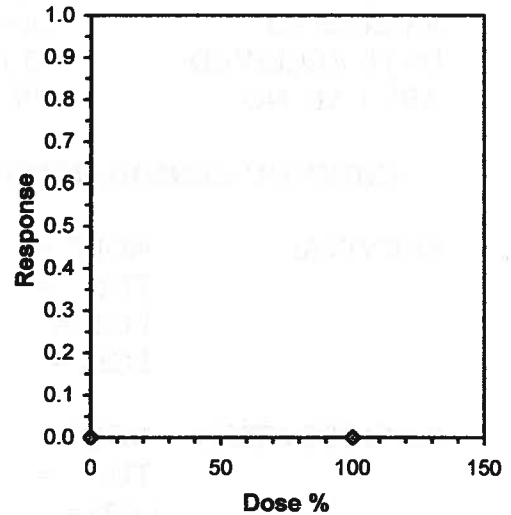
Start Date: 1/15/2008	Test ID: VIC0108198	Sample ID: CA0000000
End Date: 1/23/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 1/14/2008	Protocol: EPA-821-R-02-013	Test Species: CD-Ceriodaphnia dubia
Comments: Downstream Mojave River		

Conc-%	1	2	3	4	5	6	7	8	9	10
N Control	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Conc-%	Mean	N-Mean	Resp	Not Resp	Total	N	Fisher's 1-Tailed		Isotonic	
							Exact P	Critical	Mean	N-Mean
N Control	1.0000	1.0000	0	10	10	10			1.0000	1.0000
100	1.0000	1.0000	0	10	10	10	1.0000	0.0500	1.0000	1.0000

Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU
Fisher's Exact Test	100	>100		1
Treatments vs N Control				

Point	%	SD	Linear Interpolation (200 Resamples)	
			95% CL	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			

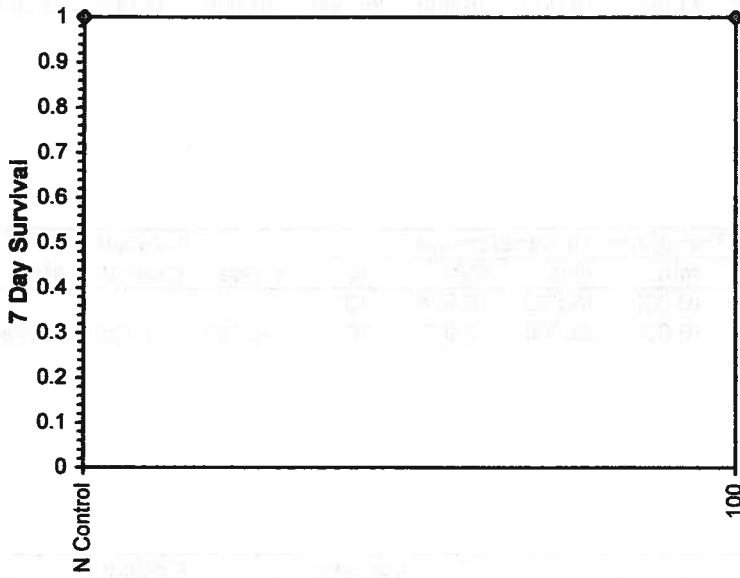




**Ceriodaphnia Survival and Reproduction Test-7 Day Survival**

Start Date: 1/15/2008      Test ID: VIC0108198      Sample ID: CA000000  
End Date: 1/23/2008      Lab ID: CAABC      Sample Type: EFF1-POTW  
Sample Date: 1/14/2008      Protocol: EPA-821-R-02-013      Test Species: CD-Ceriodaphnia dubia  
Comments: Downstream Mojave River

**Dose-Response Plot**



**Ceriodaphnia Survival and Reproduction Test-Reproduction**

Start Date: 1/15/2008	Test ID: VIC0108198	Sample ID: CA0000000
End Date: 1/23/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 1/14/2008	Protocol: EPA-821-R-02-0-13	Test Species: CD-Ceriodaphnia dubia
Comments: Downstream Mojave River		

Conc-%	1	2	3	4	5	6	7	8	9	10
N Control	16.000	17.000	18.000	15.000	18.000	12.000	14.000	15.000	10.000	15.000
100	28.000	23.000	16.000	21.000	18.000	18.000	20.000	16.000	17.000	18.000

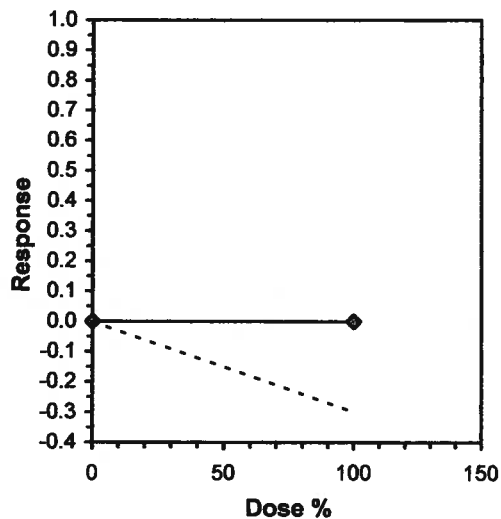
Conc-%	Mean	N-Mean	Transform: Untransformed					N	t-Stat	1-Tailed Critical	MSD	Isotonic	
			Mean	Min	Max	CV%	Mean					N-Mean	
N Control	15.000	1.0000	15.000	10.000	18.000	16.924	10				17.250	1.0000	
100	19.500	1.3000	19.500	16.000	28.000	19.073	10	-3.160	1.730	2.464	17.250	1.0000	

**Auxiliary Tests**

	Statistic	Critical	Skew	Kurt						
Shapiro-Wilk's Test indicates normal distribution ( $p > 0.01$ )	0.94801	0.868	0.90168	1.64075						
F-Test indicates equal variances ( $p = 0.27$ )	2.14655	6.54109								
Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU	MSDu	MSDp	MSB	MSE	F-Prob	df
Dunnett's Test	100	>100		1	2.46352	0.16423	101.25	10.1389	0.00542	1, 18

Treatments vs N Control

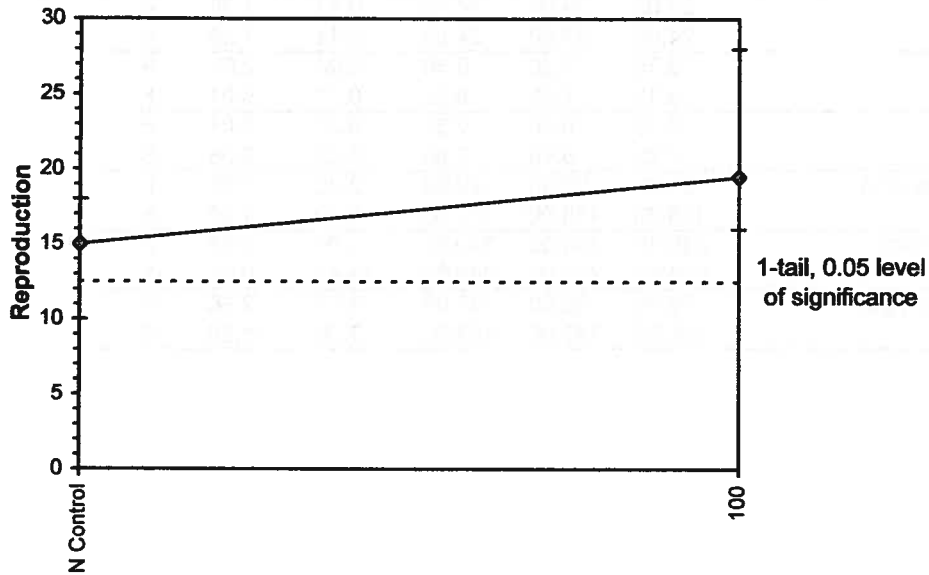
Point	%	SD	Linear Interpolation (200 Resamples)	
			95% CL	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			



**Ceriodaphnia Survival and Reproduction Test-Reproduction**

Start Date: 1/15/2008	Test ID: VIC0108198	Sample ID: CA0000000
End Date: 1/23/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 1/14/2008	Protocol: EPA-821-R-02-0-13	Test Species: CD-Ceriodaphnia dubia
Comments: Downstream Mojave River		

**Dose-Response Plot**

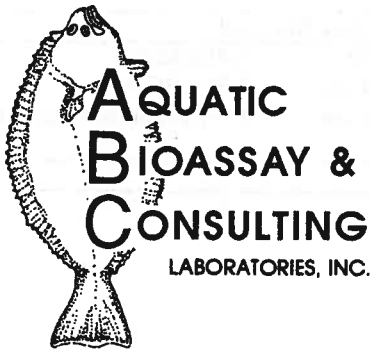


**Ceriodaphnia Survival and Reproduction Test-Reproduction**

Start Date: 1/15/2008	Test ID: VIC0108198	Sample ID: CA0000000
End Date: 1/23/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 1/14/2008	Protocol: EPA-821-R-02-0-13	Test Species: CD-Ceriodaphnia dubia
Comments: Downstream Mojave River		

**Auxiliary Data Summary**

Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	24.05	24.00	24.30	0.11	1.36	8
100		24.05	24.00	24.30	0.11	1.36	8
N Control	pH	8.25	8.20	8.30	0.05	2.80	8
100		8.15	7.80	8.30	0.17	5.04	8
N Control	DO mg/L	7.18	6.50	7.50	0.33	8.04	8
100		7.28	6.90	7.90	0.43	9.05	8
N Control	Hardness mg/L	94.63	90.00	99.00	2.45	1.65	8
100		135.63	130.00	142.00	5.10	1.66	8
N Control	Cond-umhos	340.13	334.00	349.00	4.94	0.65	8
100		826.50	785.00	848.00	19.41	0.53	8
N Control	Alkalinity mg/L	66.00	62.00	69.00	3.07	2.66	8
100		156.63	147.00	163.00	7.98	1.80	8



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH  
February 27, 2008

Ms. Gina Cloutier  
Victor Valley WWRA  
20111 Shay Road  
Victorville, CA 92394

Dear Ms. Cloutier:

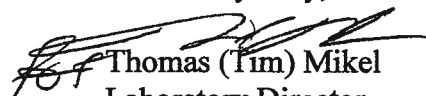
We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-013*. Results were as follows:

CLIENT:	Victor Valley WRA
SAMPLE I.D.:	Final Effluent
DATE RECEIVED:	12 Feb - 08
ABC LAB. NO.:	VIC0208.206

**Chronic Fathead Larvae Survival and Teratogenicity Bioassay**

SURVIVAL	NOEC	=	100.00 %
	TU <sub>c</sub>	=	1.00
	LC25	=	92.31 %
	LC50	=	>100.00 %
TERATOGENICITY	NOEC	=	100.00 %
	TU <sub>c</sub>	=	1.00
	LC25	=	92.31 %
	LC50	=	>100.00 %

Yours very truly,

  
Thomas (Tim) Mikel  
Laboratory Director

**Larval Fish Growth and Survival Test-8 Day Survival**

Start Date: 2/12/2008	Test ID: VIC0208206	Sample ID: CA0000000
End Date: 2/20/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 2/11/2008	Protocol: EPA-821-R-02-013	Test Species: PP-Pimephales promelas

Comments: Final Effluent

Conc-%	1	2	3	4
N Control	0.4667	0.9333	0.8000	1.0000
100	0.6000	0.8000	0.2000	0.7333

Conc-%	Transform: Arcsin Square Root							t-Stat	1-Tailed Critical	MSD	Isotonic	
	Mean	N-Mean	Mean	Min	Max	CV%	N				Mean	N-Mean
N Control	0.8000	1.0000	1.1525	0.7520	1.4413	26.056	4	1.355	1.940	0.4027	0.8000	1.0000
100	0.5833	0.7292	0.8713	0.4636	1.1071	32.909	4				0.5833	0.7292

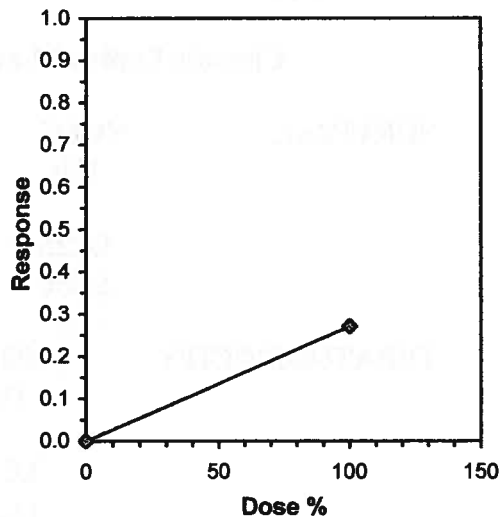
Auxiliary Tests	Statistic	Critical	Skew	Kurt						
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.85787	0.749	-0.8262	-0.8421						
F-Test indicates equal variances (p = 0.94)	1.09697	47.4683								
Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU	MSDu	MSDp	MSB	MSE	F-Prob	df
Dunnett's Test	100	>100		1	0.3706	0.44382	0.15824	0.0862	0.22423	1, 6

Treatments vs N Control

**Linear Interpolation (200 Resamples)**

Point	%	SD	95% CL(Exp)	Skew
IC05*	18.462			
IC10*	36.923			
IC15*	55.385			
IC20*	73.846			
IC25*	92.308			
IC40	>100			
IC50	>100			

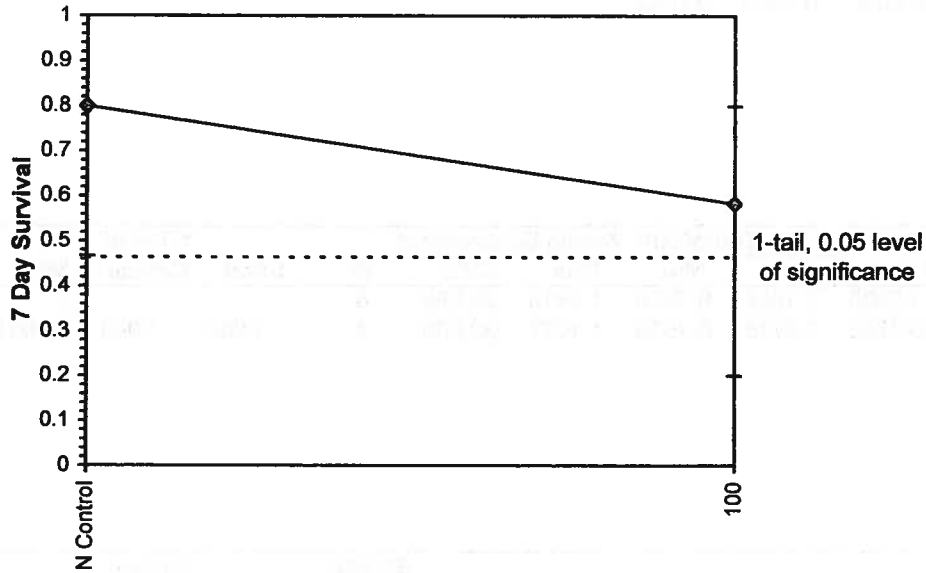
\* indicates IC estimate less than the lowest concentration



Larval Fish Growth and Survival Test-8 Day Survival

Start Date: 2/12/2008	Test ID: VIC0208206	Sample ID: CA0000000
End Date: 2/20/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 2/11/2008	Protocol: EPA-821-R-02-013	Test Species: PP-Pimephales promelas
Comments: Final Effluent		

Dose-Response Plot



**8 Day Teratogenicity**

Start Date: 2/12/2008	Test ID: VIC0208206	Sample ID: CA0000000
End Date: 2/20/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 2/11/2008	Protocol: EPA-821-R-02-013	Test Species: PP-Pimephales promelas
Comments: Final Effluent		

Conc-%	1	2	3	4
N Control	0.4667	0.9333	0.8000	1.0000
100	0.6000	0.8000	0.2000	0.7333

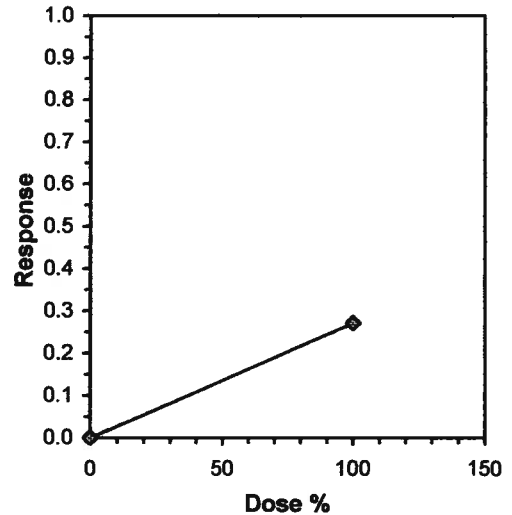
Conc-%	Transform: Arcsin Square Root							1-Tailed			Isotonic	
	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD	Mean	N-Mean
N Control	0.8000	1.0000	1.1525	0.7520	1.4413	26.056	4				0.8000	1.0000
100	0.5833	0.7292	0.8713	0.4636	1.1071	32.909	4	1.355	1.940	0.4027	0.5833	0.7292

Auxiliary Tests	Statistic	Critical	Skew	Kurt						
Shapiro-Wilk's Test indicates normal distribution ( $p > 0.01$ )	0.85787	0.749	-0.8262	-0.8421						
F-Test indicates equal variances ( $p = 0.94$ )	1.09697	47.4683								
Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU	MSDu	MSDp	MSB	MSE	F-Prob	df
Dunnett's Test	100	>100		1	0.3706	0.44382	0.15824	0.0862	0.22423	1, 6

Linear Interpolation (200 Resamples)

Point	%	SD	95% CL(Exp)	Skew
IC05*	18.462			
IC10*	36.923			
IC15*	55.385			
IC20*	73.846			
IC25*	92.308			
IC40	>100			
IC50	>100			

\* indicates IC estimate less than the lowest concentration

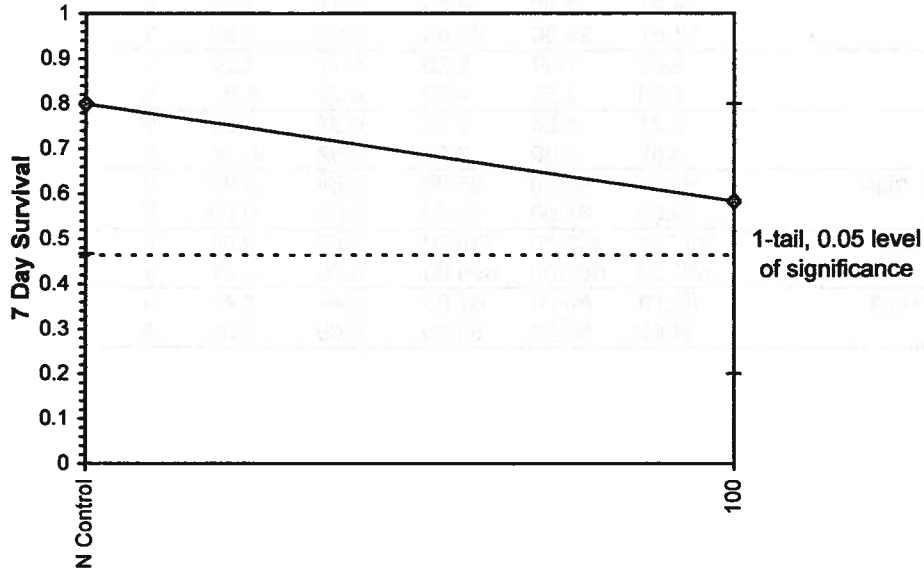




8 Day Teratogenicity

Start Date: 2/12/2008	Test ID: VIC0208206	Sample ID: CA0000000
End Date: 2/20/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 2/11/2008	Protocol: EPA-821-R-02-013	Test Species: PP-Pimephales promelas
Comments: Final Effluent		

Dose-Response Plot



**8 Day Teratogenicity**

Start Date: 2/12/2008      Test ID: VIC0208206      Sample ID: CA0000000  
End Date: 2/20/2008      Lab ID: CAABC      Sample Type: EFF1-POTW  
Sample Date: 2/11/2008      Protocol: EPA-821-R-02-013      Test Species: PP-Pimephales promelas  
Comments: Final Effluent

**Auxiliary Data Summary**

Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	24.07	24.00	24.50	0.17	1.69	9
100		24.07	24.00	24.50	0.17	1.69	9
N Control	pH	8.09	7.90	8.20	0.12	4.22	9
100		7.79	7.30	8.10	0.26	6.51	9
N Control	DO mg/L	7.24	6.90	7.70	0.30	7.51	9
100		6.82	6.00	7.50	0.52	10.54	9
N Control	Hardness mg/L	91.44	86.00	98.00	3.64	2.09	9
100		82.00	82.00	82.00	0.00	0.00	9
N Control	Cond umhos	337.33	333.00	345.00	3.87	0.58	9
100		691.00	683.00	699.00	5.45	0.34	9
N Control	Alkalinity mg/L	62.78	60.00	67.00	2.44	2.49	9
100		88.00	88.00	88.00	0.00	0.00	9



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH  
February 27, 2008

Ms. Gina Cloutier  
Victor Valley WWRA  
20111 Shay Road  
Victorville, CA 92394

Dear Ms. Cloutier:

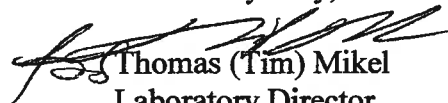
We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-013*. Results were as follows:

CLIENT: Victor Valley WRA  
SAMPLE I.D.: Downstream  
DATE RECEIVED: 12 Feb - 08  
ABC LAB. NO.: VIC0208.207

**Chronic Fathead Larvae Survival and Teratogenicity Bioassay**

SURVIVAL	NOEC	=	100.00 %
	TU <sub>c</sub>	=	1.00
	LC25	=	85.71 %
	LC50	=	>100.00 %
TERATOGENICITY	NOEC	=	100.00 %
	TU <sub>c</sub>	=	1.00
	LC25	=	85.71 %
	LC50	=	>100.00 %

Yours very truly,

  
Thomas (Tim) Mikel  
Laboratory Director

**Larval Fish Growth and Survival Test-8 Day Survival**

Start Date: 2/12/2008	Test ID: VIC0208207	Sample ID: CA0000000
End Date: 2/20/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 2/11/2008	Protocol: EPA-821-R-02-013	Test Species: PP-Pimephales promelas
Comments: Downstream		

Conc-%	1	2	3	4
N Control	0.4667	0.9333	0.8000	1.0000
100	0.8000	0.4667	0.7333	0.2667

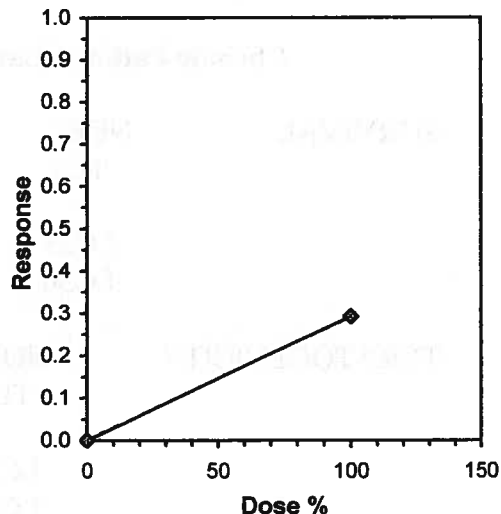
Conc-%	Mean	N-Mean	Transform: Arcsin Square Root				N	t-Stat	1-Tailed Critical	MSD	Isotonic	
			Mean	Min	Max	CV%					Mean	N-Mean
N Control	0.8000	1.0000	1.1525	0.7520	1.4413	26.056	4				0.8000	1.0000
100	0.5667	0.7083	0.8575	0.5426	1.1071	30.239	4	1.487	1.940	0.3849	0.5667	0.7083

Auxiliary Tests						Statistic	Critical	Skew	Kurt						
Shapiro-Wilk's Test indicates normal distribution ( $p > 0.01$ )						0.90919	0.749	-0.5242	-1.2856						
F-Test indicates equal variances ( $p = 0.82$ )						1.34127	47.4683								
Hypothesis Test (1-tail, 0.05)						NOEC	LOEC	ChV	TU	MSDu	MSDp	MSB	MSE	F-Prob	df
Dunnett's Test						100	>100		1	0.35274	0.42243	0.1741	0.07871	0.1875	1, 6
Treatments vs N Control															

**Linear Interpolation (200 Resamples)**

Point	%	SD	95% CL(Exp)	Skew
IC05*	17.143			
IC10*	34.286			
IC15*	51.429			
IC20*	68.571			
IC25*	85.714			
IC40	>100			
IC50	>100			

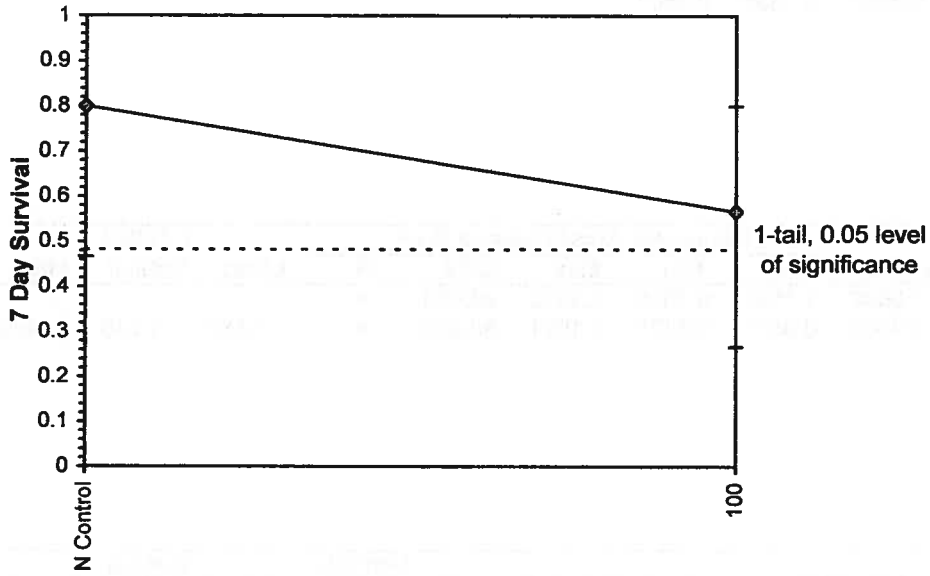
\* indicates IC estimate less than the lowest concentration



Larval Fish Growth and Survival Test-8 Day Survival

Start Date: 2/12/2008      Test ID: VIC0208207      Sample ID: CA0000000  
End Date: 2/20/2008      Lab ID: CAABC      Sample Type: EFF1-POTW  
Sample Date: 2/11/2008      Protocol: EPA-821-R-02-013      Test Species: PP-Pimephales promelas  
Comments: Downstream

Dose-Response Plot



**8 Day Teratogenicity**

Start Date: 2/12/2008	Test ID: VIC0208207	Sample ID: CA0000000
End Date: 2/20/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 2/11/2008	Protocol: EPA-821-R-02-013	Test Species: PP-Pimephales promelas
Comments: Downstream		

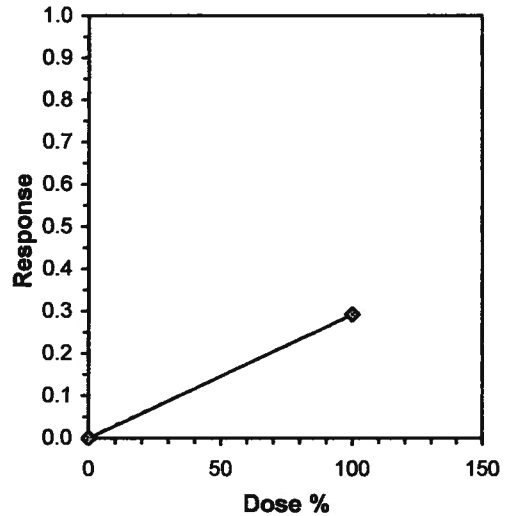
Conc-%	1	2	3	4
N Control	0.4667	0.9333	0.8000	1.0000
100	0.8000	0.4667	0.7333	0.2667

Conc-%	Mean	N-Mean	Transform: Arcsin Square Root				N	t-Stat	1-Tailed Critical	MSD	Isotonic	
			Mean	Min	Max	CV%					Mean	N-Mean
N Control	0.8000	1.0000	1.1525	0.7520	1.4413	26.056	4				0.8000	1.0000
100	0.5667	0.7083	0.8575	0.5426	1.1071	30.239	4	1.487	1.940	0.3849	0.5667	0.7083

Auxiliary Tests	Statistic	Critical	Skew	Kurt						
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.90919	0.749	-0.5242	-1.2856						
F-Test indicates equal variances (p = 0.82)	1.34127	47.4683								
Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU	MSDu	MSDp	MSB	MSE	F-Prob	df
Dunnett's Test	100	>100		1	0.35274	0.42243	0.1741	0.07871	0.1875	1, 6
Treatments vs N Control										

Linear Interpolation (200 Resamples)				
Point	%	SD	95% CL(Exp)	Skew
IC05*	17.143			
IC10*	34.286			
IC15*	51.429			
IC20*	68.571			
IC25*	85.714			
IC40	>100			
IC50	>100			

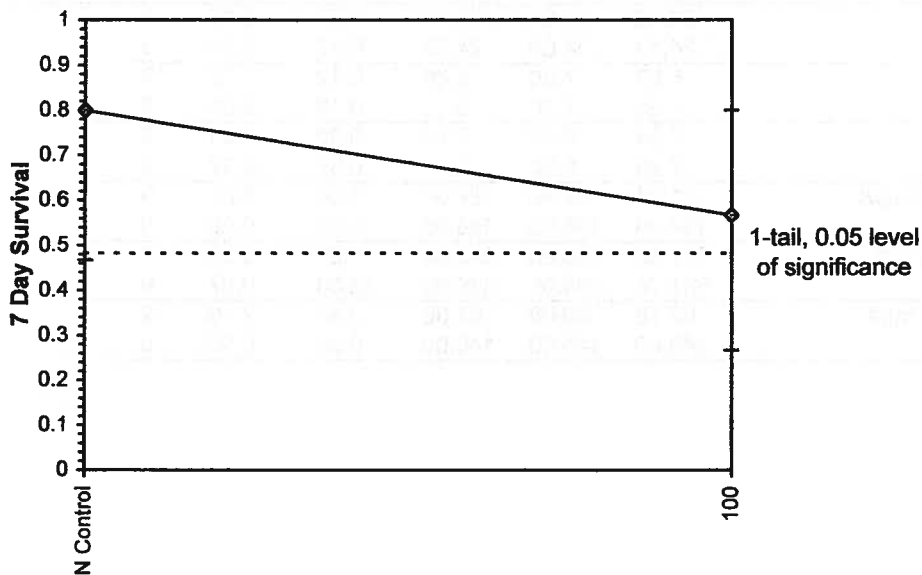
\* indicates IC estimate less than the lowest concentration



8 Day Teratogenicity

Start Date: 2/12/2008      Test ID: VIC0208207      Sample ID: CA0000000  
End Date: 2/20/2008      Lab ID: CAABC      Sample Type: EFF1-POTW  
Sample Date: 2/11/2008      Protocol: EPA-821-R-02-013      Test Species: PP-Pimephales promelas  
Comments: Downstream

Dose-Response Plot



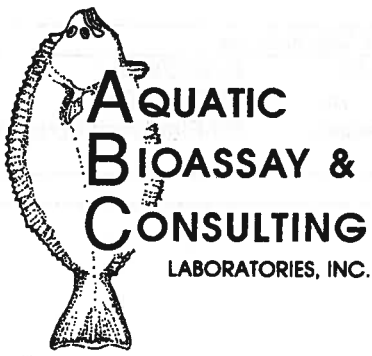
**8 Day Teratogenicity**

Start Date: 2/12/2008	Test ID: VIC0208207	Sample ID: CA0000000
End Date: 2/20/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 2/11/2008	Protocol: EPA-821-R-02-013	Test Species: PP-Pimephales promelas
Comments: Downstream		

**Auxiliary Data Summary**

Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control 100	Temp C	24.13	24.00	24.70	0.27	2.15	9
		24.13	24.00	24.70	0.27	2.15	9
N Control 100	pH	8.09	7.90	8.20	0.12	4.22	9
		7.90	7.70	8.10	0.16	5.03	9
N Control 100	DO mg/L	7.24	6.90	7.70	0.30	7.51	9
		7.29	6.50	7.70	0.37	8.37	9
N Control 100	Hardness mg/L	91.44	86.00	98.00	3.64	2.09	9
		138.00	138.00	138.00	0.00	0.00	9
N Control 100	Cond umhos	337.33	333.00	345.00	3.87	0.58	9
		821.78	780.00	849.00	22.30	0.57	9
N Control 100	Alkalinity mg/L	62.78	60.00	67.00	2.44	2.49	9
		140.00	140.00	140.00	0.00	0.00	9





TOXICITY TESTING • OCEANOGRAPHIC RESEARCH  
February 27, 2008

Ms. Gina Cloutier  
Victor Valley WWRA  
20111 Shay Road  
Victorville, CA 92394

Dear Ms. Cloutier:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-013*. Results were as follows:

CLIENT:	Victor Valley WRA
SAMPLE I.D.:	Upstream
DATE RECEIVED:	12 Feb - 08
ABC LAB. NO.:	VIC0208.208

**Chronic Fathead Larvae Survival and Teratogenicity Bioassay**

SURVIVAL	NOEC	=	<100.00 %
	TUc	=	> 1.00
	LC25	=	50.00 %
	LC50	=	>100.00 %

TERATOGENICITY	NOEC	=	<100.00 %
	TUc	=	>1.00
	LC25	=	85.71 %
	LC50	=	>100.00 %

Yours very truly,

Thomas (Tim) Mikel  
Laboratory Director

**Larval Fish Growth and Survival Test-8 Day Survival**

Start Date: 2/12/2008	Test ID: VIC0208208	Sample ID: CA0000000
End Date: 2/20/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 2/11/2008	Protocol: EPA-821-R-0-2013	Test Species: PP-Pimephales promelas
Comments: UPstream		

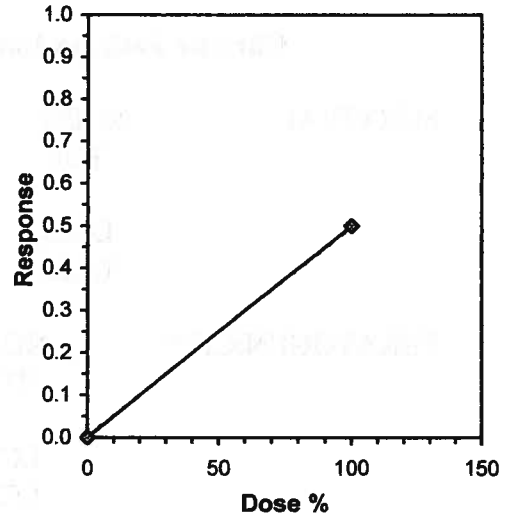
Conc-%	1	2	3	4
N Control	0.4667	0.9333	0.8000	1.0000
100	0.5333	0.0667	0.4667	0.5333

Conc-%	Mean	N-Mean	Transform: Arcsin Square Root				N	t-Stat	1-Tailed Critical	MSD	Isotonic	
			Mean	Min	Max	CV%					Mean	N-Mean
N Control	0.8000	1.0000	1.1525	0.7520	1.4413	26.056	4				0.8000	1.0000
*100	0.4000	0.5000	0.6627	0.2612	0.8188	40.672	4	2.428	1.940	0.3914	0.4000	0.5000

Auxiliary Tests	Statistic	Critical	Skew	Kurt						
Shapiro-Wilk's Test indicates normal distribution ( $p > 0.01$ )	0.82046	0.749	-0.9588	-0.6374						
F-Test indicates equal variances ( $p = 0.86$ )	1.24145	47.4683								
Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU	MSDu	MSDp	MSB	MSE	F-Prob	df
Dunnett's Test	<100	100			0.35928	0.43027	0.47993	0.08141	0.0513	1, 6
Treatments vs N Control										

Point	%	SD	Linear Interpolation (200 Resamples)		Skew
			95% CL(L)	95% CL(U)	
IC05*	10.000	4.819	2.620	36.950	3.1547
IC10*	20.000	9.639	5.239	73.900	3.1547
IC15*	30.000				
IC20*	40.000				
IC25*	50.000				
IC40*	80.000				
IC50	>100				

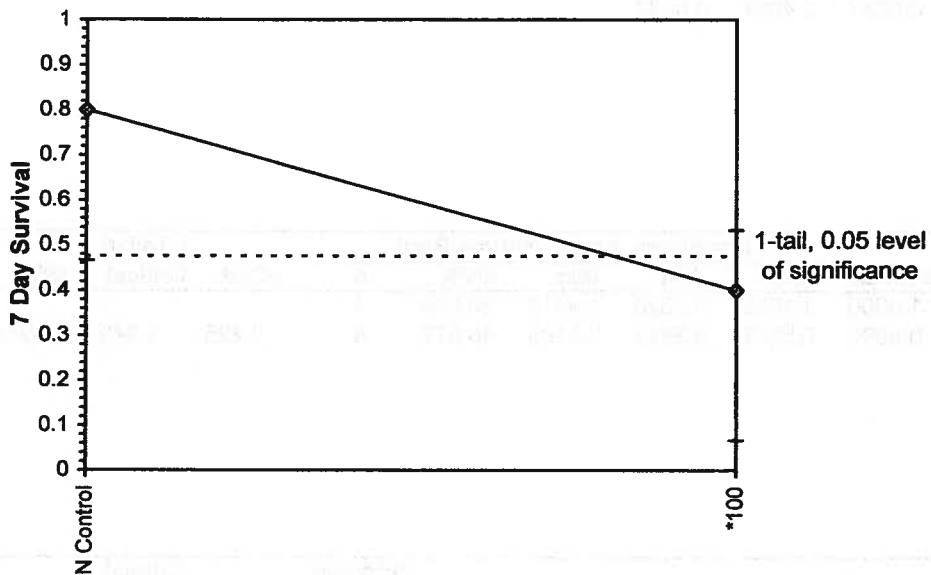
\* indicates IC estimate less than the lowest concentration



Larval Fish Growth and Survival Test-8 Day Survival

Start Date: 2/12/2008      Test ID: VIC0208208      Sample ID: CA0000000  
End Date: 2/20/2008      Lab ID: CAABC      Sample Type: EFF1-POTW  
Sample Date: 2/11/2008      Protocol: EPA-821-R-0-2013      Test Species: PP-Pimephales promelas  
Comments: UPstream

Dose-Response Plot



**8 Day Teratogenicity**

Start Date: 2/12/2008	Test ID: VIC0208208	Sample ID: CA0000000
End Date: 2/20/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 2/11/2008	Protocol: EPA-821-R-0-2013	Test Species: PP-Pimephales promelas
Comments: UPstream		

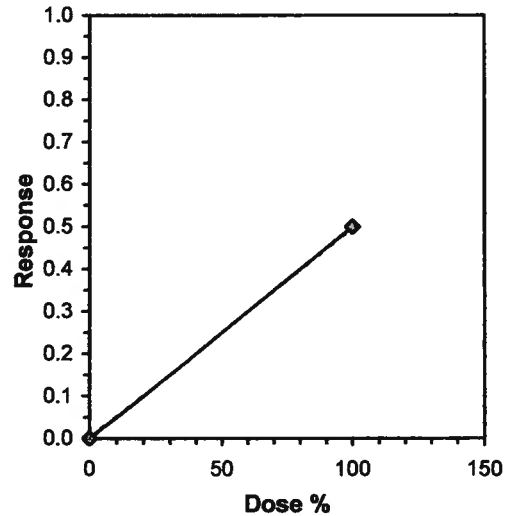
Conc-%	1	2	3	4
N Control	0.4667	0.9333	0.8000	1.0000
100	0.5333	0.0667	0.4667	0.5333

Conc-%	Mean	N-Mean	Transform: Arcsin Square Root				N	t-Stat	1-Tailed Critical	MSD	Isotonic	
			Mean	Min	Max	CV%					Mean	N-Mean
N Control	0.8000	1.0000	1.1525	0.7520	1.4413	26.056	4				0.8000	1.0000
*100	0.4000	0.5000	0.6627	0.2612	0.8188	40.672	4	2.428	1.940	0.3914	0.4000	0.5000

Auxiliary Tests	Statistic	Critical	Skew	Kurt						
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.82046	0.749	-0.9588	-0.6374						
F-Test indicates equal variances (p = 0.86)	1.24145	47.4683								
Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU	MSDu	MSDp	MSB	MSE	F-Prob	df
Dunnett's Test	<100	100			0.35928	0.43027	0.47993	0.08141	0.0513	1, 6

Linear Interpolation (200 Resamples)					
Point	%	SD	95% CL(Exp)		Skew
IC05*	10.000	4.819	2.620	36.950	3.1547
IC10*	20.000	9.639	5.239	73.900	3.1547
IC15*	30.000				
IC20*	40.000				
IC25*	50.000				
IC40*	80.000				
IC50	>100				

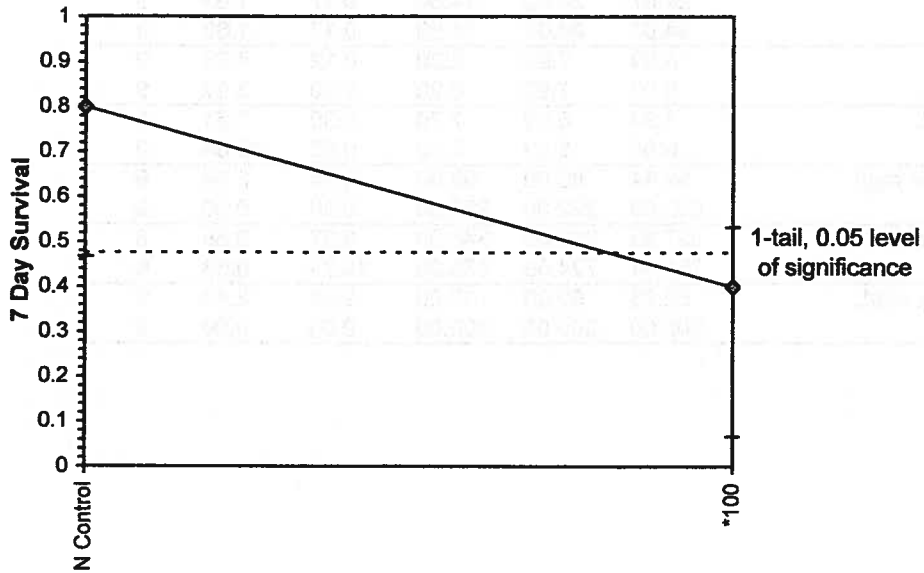
\* indicates IC estimate less than the lowest concentration



8 Day Teratogenicity

Start Date: 2/12/2008	Test ID: VIC0208208	Sample ID: CA0000000
End Date: 2/20/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 2/11/2008	Protocol: EPA-821-R-0-2013	Test Species: PP-Pimephales promelas
Comments: UPstream		

Dose-Response Plot



**8 Day Teratogenicity**



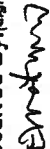
Start Date: 2/12/2008	Test ID: VIC0208208	Sample ID: CA0000000
End Date: 2/20/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 2/11/2008	Protocol: EPA-821-R-0-2013	Test Species: PP-Pimephales promelas
Comments: UPstream		

**Auxiliary Data Summary**

Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	24.07	24.00	24.50	0.17	1.69	9
100		24.07	24.00	24.50	0.17	1.69	9
N Control	pH	8.09	7.90	8.20	0.12	4.22	9
100		8.07	7.90	8.20	0.10	3.92	9
N Control	DO mg/L	7.24	6.90	7.70	0.30	7.51	9
100		6.96	6.00	7.70	0.55	10.64	9
N Control	Hardness mg/L	91.44	86.00	98.00	3.64	2.09	9
100		232.00	232.00	232.00	0.00	0.00	9
N Control	Cond umhos	337.33	333.00	345.00	3.87	0.58	9
100		751.44	724.00	775.00	19.24	0.58	9
N Control	Alkalinity mg/L	62.78	60.00	67.00	2.44	2.49	9
100		200.00	200.00	200.00	0.00	0.00	9



# CHAIN OF CUSTODY RECORD

<b>Client:</b> Victor Valley Wastewater Reclamation Authority		<b>Project Name/Number:</b> Annual Bioswap - Repeat				
<b>Address:</b> 20111 Shay Road Victorville, CA 92394		<b>Project Mgr.:</b> Gina Cloutier				
<b>Phone Number:</b> 760-840-8038 x1.210		<b>P.O. #:</b> -N/A-				
<b>Sampled By (signature):</b> 		<b>Chronic 8-day FML (100%) Teratogenicity</b> XX XX XX				
Date	Time	Comp	Matrix	Sample ID	Volume/Number	Comments
2-13-08	0715	X	SURFACE WATER	UPSTREAM	1 Gal.	Resampler ↓
2-13-08	0750	X	SURFACE WATER	DOWNSTREAM	1 Gal.	
2-13-08	0815	X	WWD	FINAL EFF	1 Gal.	
<b>Relinquished By (signature):</b> 		<b>Relinquished By (signature):</b>		<b>Date:</b> 2-13-08 0825		<b>Date:</b> Time:
<b>Received By (signature):</b>		<b>Received By (signature):</b> 		<b>Date:</b> 2-14-08 0825		<b>Date:</b> Time: 2-14-08 0825
				Temp. upon sample receipt: 10.1 °C		

CARB # 2-01



# CHAIN OF CUSTODY RECORD

<b>Client:</b> Victor Valley Wastewater Reclamation Authority		<b>Project Name/Number:</b> Chronic Bioassay (Reports)						
<b>Address:</b> 5011 Shay Road Victorville, CA 92294		<b>Project Mgr.:</b> Gina Cloutier						
<b>Phone Number:</b> 760-846-8038 xt. 216		<b>P.O. #</b>						
<b>Sampled By (signature):</b> <i>[Signature]</i>		<b>Chronic B day Fml (100%)</b> Chromatogenicity						
Date	Time	Comp	Tab	Matrix	Sample ID	Volume/Number	Analysis	Comments
2-15-08	0725	X		Surface	UPSTREAM	1 Gal.		repeats ↓
2-15-08	0755	X		Surface	Downstream	1 Gal.		
2-15-08	0820	X		WW	FINAL EFF	1 Gal.		
<b>Relinquished By (signature):</b> <i>[Signature]</i>		<b>Relinquished By (signature):</b>		<b>Date: Time:</b> 2-15-08 0830		<b>Date: Time:</b>		
<b>Received By (signature):</b> <i>[Signature]</i>		<b>Received By (signature):</b> AR		<b>Date: Time:</b>		<b>Date: Time:</b> 2/15/08 1030		
Temp. upon sample receipt: 9.9 °C								

Aquatic Bioassay and Consulting Laboratories  
 29 N. Olive Street Ventura, CA 93001 Phone: (805) 643-5621 Fax: (805) 643-2930



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH  
April 15, 2008

Ms. Gina Cloutier  
Victor Valley WWRA  
20111 Shay Road  
Victorville, CA 92394

Dear Ms. Cloutier:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-012*. Results were as follows:

CLIENT:	Victor Valley WRA
SAMPLE I.D.:	Final Effluent to Mojave River Grab
DATE RECEIVED:	10 April - 08
ABC LAB. NO.:	VIC0408.136

**96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY**

LC50	=	100 % Survival in 100 % Sample
TUa	=	0.00

Yours very truly,



Thomas (Tim) Mikel  
Laboratory Director

**Larval Fish Growth and Survival Test-96 Hr Survival**

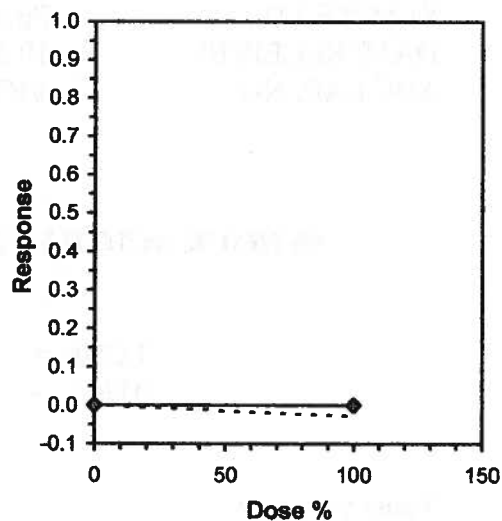
Start Date: 4/10/2008	Test ID: VIC0408136	Sample ID: CA0000000
End Date: 4/14/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 4/9/2008	Protocol: EPA-821-R-02-012	Test Species: PP-Pimephales promelas
Comments: Final Effluent to Mojave River Grab		

Conc-%	1	2	3	4
N Control	0.9000	1.0000	1.0000	1.0000
100	1.0000	1.0000		

Conc-%	Mean	N-Mean	Transform: Arcsin Square Root				N	t-Stat	1-Tailed Critical	MSD	Isotonic	
			Mean	Min	Max	CV%					Mean	N-Mean
N Control	0.9750	1.0000	1.3713	1.2490	1.4120	5.942	4				0.9875	1.0000
100	1.0000	1.0256	1.4120	1.4120	1.4120	0.000	2	-0.667	2.132	0.1303	0.9875	1.0000

Auxiliary Tests	Statistic	Critical	Skew	Kurt		
Shapiro-Wilk's Test indicates normal distribution ( $p > 0.01$ )	0.72054	0.713	-1.9365	3.95833		
Equality of variance cannot be confirmed						
Hypothesis Test (1-tail, 0.05)	MSDu	MSDp	MSB	MSE	F-Prob	df
Homoscedastic t Test indicates no significant differences	0.0656	0.06828	0.00221	0.00498	0.54147	1, 4
Treatments vs N Control						

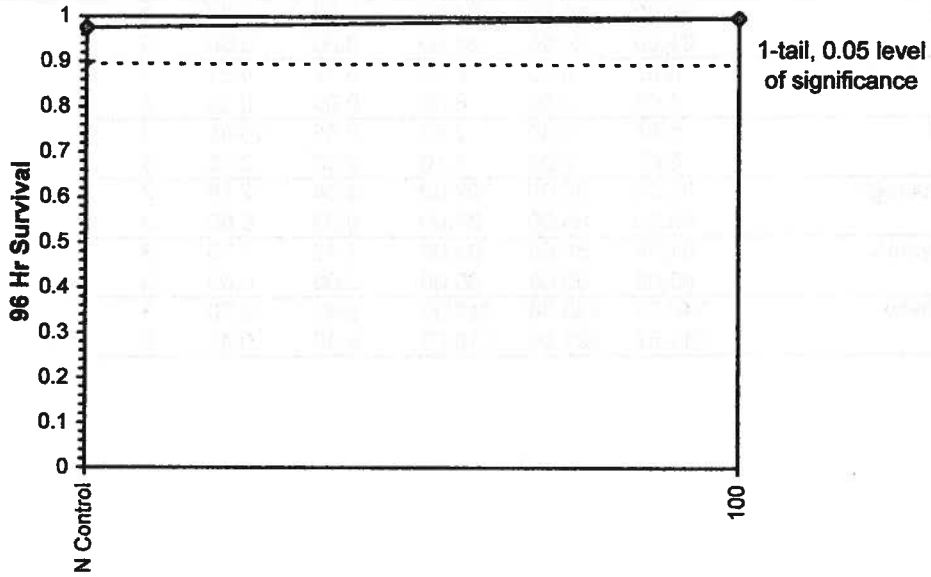
Point	%	SD	Linear Interpolation (200 Resamples)	
			95% CL(Exp)	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			



Larval Fish Growth and Survival Test-96 Hr Survival

Start Date: 4/10/2008 Test ID: VIC0408136 Sample ID: CA0000000  
End Date: 4/14/2008 Lab ID: CAABC Sample Type: EFF1-POTW  
Sample Date: 4/9/2008 Protocol: EPA-821-R-02-012 Test Species: PP-Pimephales promelas  
Comments: Final Effluent to Mojave River Grab

Dose-Response Plot



**Larval Fish Growth and Survival Test-96 Hr Survival**

Start Date: 4/10/2008	Test ID: VIC0408136	Sample ID: CA0000000
End Date: 4/14/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 4/9/2008	Protocol: EPA-821-R-02-012	Test Species: PP-Pimephales promelas
Comments: Final Effluent to Mojave River Grab		

**Auxillary Data Summary**

Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	24.00	24.00	24.00	0.00	0.00	3
100		24.00	24.00	24.00	0.00	0.00	3
N Control	pH	8.07	8.00	8.20	0.12	4.21	3
100		8.00	8.00	8.00	0.00	0.00	3
N Control	DO mg/L	6.97	6.40	7.50	0.55	10.65	3
100		6.07	6.00	6.10	0.06	3.96	3
N Control	Hardness mg/L	92.33	90.00	97.00	4.04	2.18	3
100		66.00	66.00	66.00	0.00	0.00	3
N Control	Alkalinitymg/L	61.33	60.00	62.00	1.15	1.75	3
100		65.00	65.00	65.00	0.00	0.00	3
N Control	Conductivity	340.33	333.00	345.00	6.43	0.75	3
100		711.67	701.00	719.00	9.45	0.43	3





**RECEIVED**  
7/31/08

TOXICITY TESTING • OCEANOGRAPHIC RESEARCH  
July 15, 2008

Ms. Gina Cloutier  
Victor Valley WWRA  
20111 Shay Road  
Victorville, CA 92394

Dear Ms. Cloutier:


We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-012*. Results were as follows:

CLIENT:	Victor Valley WRA
SAMPLE I.D.:	Final Effluent to Mojave River Grab
DATE RECEIVED:	9 July - 08
ABC LAB. NO.:	VIC0708.063

**96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY**

LC50 = 100 % Survival in 100 % Sample  
TUa = 0.00

Yours very truly,

  
Thomas (Tim) Mikel  
Laboratory Director

**Larval Fish Growth and Survival Test-96 Hr Survival**

Start Date: 7/9/2008	Test ID: VIC0708063	Sample ID: CA0000000
End Date: 7/13/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 7/8/2008	Protocol: EPA-821-R-02-012	Test Species: PP-Pimephales promelas

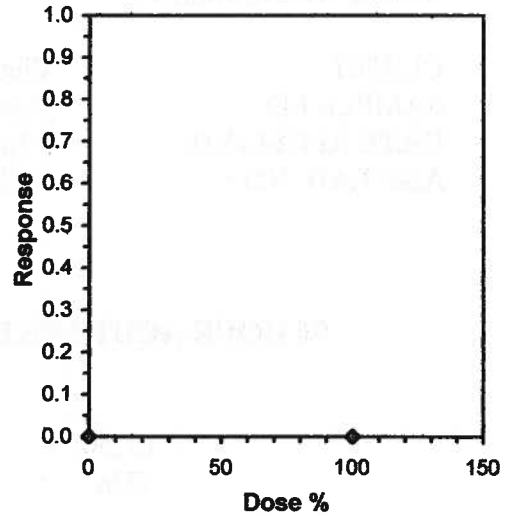
Comments: Final Effluent to Mojave River Grab

Conc-%	1	2	3	4
N Control	1.0000	1.0000	1.0000	1.0000
100	1.0000	1.0000		

Conc-%	Transform: Arcsin Square Root							Isotonic	
	Mean	N-Mean	Mean	Min	Max	CV%	N	Mean	N-Mean
N Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	4	1.0000	1.0000
100	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	1.0000	1.0000

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution ( $p > 0.01$ )	1	0.713		
Equality of variance cannot be confirmed				

Point	%	SD	Linear Interpolation (200 Resamples)	
			95% CL(Exp)	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			

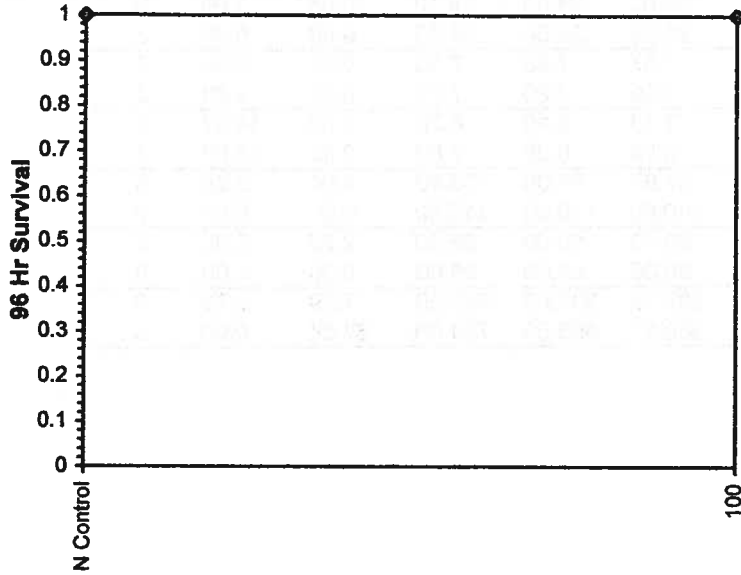




Larval Fish Growth and Survival Test-96 Hr Survival

Start Date: 7/9/2008 Test ID: VIC0708063 Sample ID: CA0000000  
End Date: 7/13/2008 Lab ID: CAABC Sample Type: EFF1-POTW  
Sample Date: 7/8/2008 Protocol: EPA-821-R-02-012 Test Species: PP-Pimephales promelas  
Comments: Final Effluent to Mojave River Grab

Dose-Response Plot

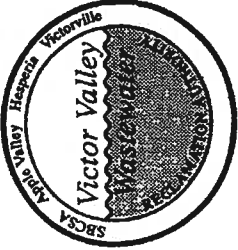


**Larval Fish Growth and Survival Test-96 Hr Survival**

Start Date: 7/9/2008	Test ID: VIC0708063	Sample ID: CA0000000
End Date: 7/13/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 7/8/2008	Protocol: EPA-821-R-02-012	Test Species: PP-Pimephales promelas
Comments: Final Effluent to Mojave River Grab		

**Auxiliary Data Summary**

Conc-%	Parameter	Auxiliary Data Summary					
		Mean	Min	Max	SD	CV%	N
N Control	Temp C	24.03	24.00	24.10	0.06	1.00	3
100		24.00	24.00	24.00	0.00	0.00	3
N Control	pH	7.87	7.80	7.90	0.06	3.05	3
100		7.50	7.30	7.80	0.26	6.86	3
N Control	DO mg/L	7.13	6.10	8.20	1.05	14.37	3
100		6.70	6.00	7.60	0.82	13.50	3
N Control	Hardness mg/L	97.67	93.00	100.00	4.04	2.06	3
100		110.00	110.00	110.00	0.00	0.00	3
N Control	Alkalinitymg/L	63.33	60.00	65.00	2.89	2.68	3
100		85.00	85.00	85.00	0.00	0.00	3
N Control	Conductivity	337.33	331.00	345.00	7.09	0.79	3
100		680.67	658.00	724.00	37.54	0.90	3

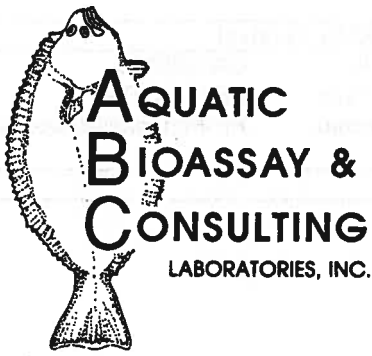


**LABORATORY CHAIN OF CUSTODY AND ANALYSIS REQUEST RECORD**

**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.vvwwra.com](http://www.vvwwra.com) E-mail: [gccloutier@vvwwra.com](mailto:gccloutier@vvwwra.com)

Project Name: Quarterly NPDES Samples - Routine			Sample Type		Laboratory Analyses Requested						Sample Preservation Methods			Sample Matrix (WW, DW, GW, SG)
Project Contact: Gina Cloutier (760) 246-8638 ext. 216			Composite		Minnow (100%)						Retrigeration		WW	
Sampler Name: Roy Davino			Grab											
VVWRA ID #	Sample Location/Description	Sample Date	Sample Time	Sample Time										
11089	Final Effluent to Mojave River Grab	7/8/08	0700	X										
Sampler Signature: <i>Roy Davino</i>														
Relinquished By (Sign): <i>Roy Davino</i>			Date/Time: 7/8/08	Received By (Sign): <i>Gina Cloutier</i>	Date/Time: 7-9-08	Relinquished By (Sign): <i>Gina Cloutier</i>						Received By (Sign): <i>E. MATWANA</i>		
Print: Roy Davino			0720	Print: Gina Cloutier	1111	Print: Gina Cloutier						Print: E. MATWANA		
Company: VVWRA				Company: VVWRA		Company: VVWRA						Company: ADMATIC (1087554)		
Relinquished By (Sign):			Date/Time:	Received By (Sign):	Date/Time:	Relinquished By (Sign):						Received By (Sign):		
Print:				Print:		Print:						Print:		
Company:				Company:		Company:						Company:		
Sample Condition Upon Receipt by Laboratory:			Laboratory Notes						Lab #					
Samples Received on Ice? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			SPRING = 40-1											
Samples Received Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No														
Temperature														
16.5 °C														



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH  
October 22, 2008

Ms. Gina Cloutier  
Victor Valley WWRA  
20111 Shay Road  
Victorville, CA 92394

Dear Ms. Cloutier:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-012*.


Results were as follows:

CLIENT:	Victor Valley WRA
SAMPLE I.D.:	Final Effluent to Mojave River Grab
DATE RECEIVED:	15 Oct - 08
ABC LAB. NO.:	VIC1008.241

**96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY**

LC50 = 100 % Survival in 100 % Sample  
TUa = 0.00

Yours very truly,

  
Thomas (Tim) Mikel  
Laboratory Director

**Larval Fish Growth and Survival Test-96 Hr Survival**

Start Date: 10/15/2008	Test ID: VIC1008241	Sample ID: CA0000000
End Date: 10/19/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 10/14/2008	Protocol: EPA-821-R-02-012	Test Species: PP-Pimephales promelas
Comments: Final Effluent to Mojave River Grab		

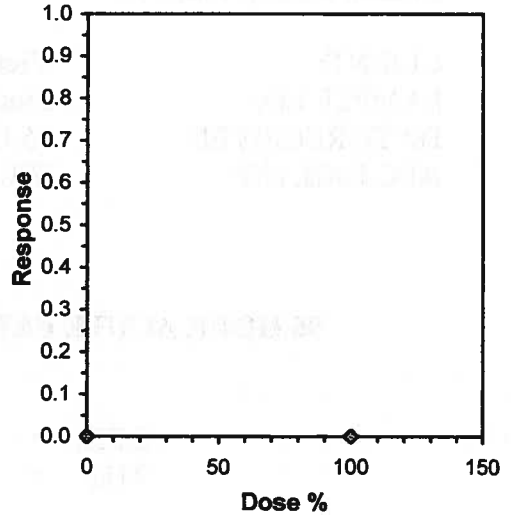
Conc-%	1	2	3	4
N Control	1.0000	1.0000	1.0000	1.0000
100	1.0000	1.0000		

Conc-%	Mean	N-Mean	Transform: Arcsin Square Root					Isotonic	
			Mean	Min	Max	CV%	N	Mean	N-Mean
N Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	4	1.0000	1.0000
100	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	1.0000	1.0000

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	1	0.713		
Equality of variance cannot be confirmed				

**Linear Interpolation (200 Resamples)**

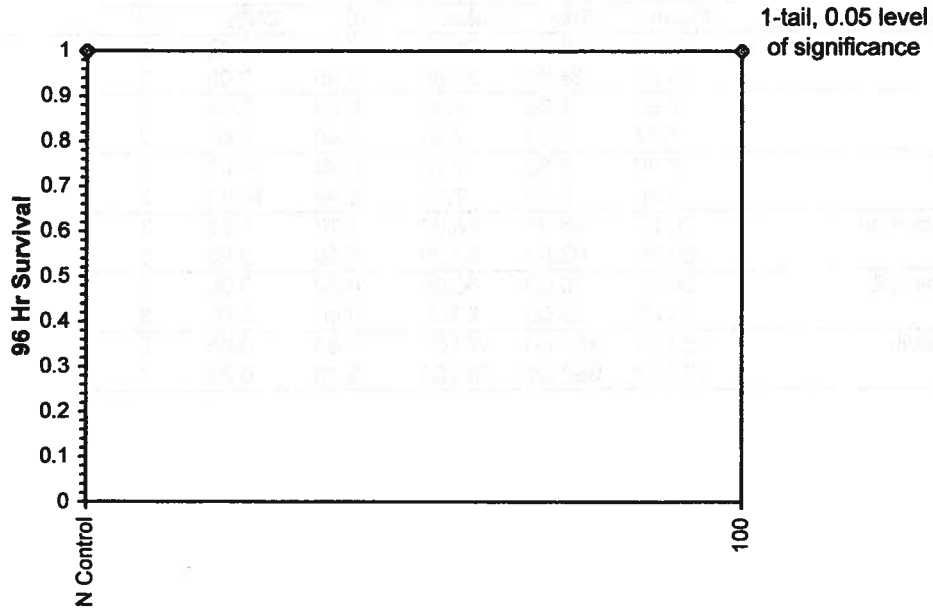
Point	%	SD	95% CL(Exp)	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			



**Larval Fish Growth and Survival Test-96 Hr Survival**

Start Date: 10/15/2008	Test ID: VIC1008241	Sample ID: CA0000000
End Date: 10/19/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 10/14/2008	Protocol: EPA-821-R-02-012	Test Species: PP-Pimephales promelas
Comments: Final Effluent to Mojave River Grab		

**Dose-Response Plot**



**Larval Fish Growth and Survival Test-96 Hr Survival**

Start Date: 10/15/2008	Test ID: VIC1008241	Sample ID: CA0000000
End Date: 10/19/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 10/14/2008	Protocol: EPA-821-R-02-012	Test Species: PP-Pimephales promelas
Comments: Final Effluent to Mojave River Grab		

**Auxiliary Data Summary**

Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	24.33	24.00	25.00	0.58	3.12	3
100		24.00	24.00	24.00	0.00	0.00	3
N Control	pH	7.90	7.90	7.90	0.00	0.00	3
100		7.37	7.00	7.80	0.40	8.63	3
N Control	DO mg/L	7.00	5.90	7.70	0.96	14.03	3
100		7.00	5.90	7.70	0.96	14.03	3
N Control	Hardness mg/L	86.00	85.00	88.00	1.73	1.53	3
100		63.00	63.00	63.00	0.00	0.00	3
N Control	Alkalinitymg/L	60.00	60.00	60.00	0.00	0.00	3
100		83.00	83.00	83.00	0.00	0.00	3
N Control	Conductivity	369.00	358.00	377.00	9.85	0.85	3
100		700.67	698.00	705.00	3.79	0.28	3





**SECTION 10**

**DISCHARGE MONITORING  
REPORT**

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME VICTOR VALLEY WRA  
 ADDRESS 20111 SHAY ROAD  
 VICTORVILLE CA 92394-8539

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

CA0102822  
 PERMIT NUMBER

INF Y  
 DISCHARGE NUMBER

MAJOR (SUBR 06)  
 F - FINAL  
 INFLUENT / ANNUALLY

Form Approved  
 OMB No. 2040-0004

FACILITY VICTOR VALLEY MUNI WTP  
 LOCATION VICTORVILLE CA 92394  
 ATTN MR. LOGAN R. OLDS

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	08	01	01		08	12	31

Check here if No Discharge

NOTE: Read instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
CYANIDE, TOTAL (AS CN) 00720 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<5.000	( 19)	0	10/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
ARSENIC, TOTAL RECOVERABLE 00978 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
SELENIUM, TOTAL RECOVERABLE 00981 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
THALLIUM, TOTAL RECOVERABLE 00982 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.20	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
BERYLLIUM, TOTAL RECOVERABLE (AS BE) 00998 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
NICKEL TOTAL RECOVERABLE 01074 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.02	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
SILVER TOTAL RECOVERABLE 01079 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowing violations.					TELEPHONE		DATE			
LOGAN R. OLDS GENERAL MANAGER						760 246-8638		08	12	31	
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					AREA CODE	NUMBER	YEAR	MO	DAY	
COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)											

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME VICTOR VALLEY WRA  
 ADDRESS 20111 SHAY ROAD  
 VICTORVILLE CA 92394-8539

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

CA0102822	INF Y
PERMIT NUMBER	DISCHARGE NUMBER

MAJOR (SUBR 06)  
 F - FINAL  
 INFLUENT / ANNUALLY

Form Approved.  
 OMB No. 2040-0004

FACILITY VICTOR VALLEY MUNI WTP  
 LOCATION VICTORVILLE CA 92394  
 ATTN MR. LOGAN R. OLDS

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	08	01	01		08	12	31

Check here if No Discharge

NOTE: Read instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
ZINC TOTAL RECOVERABLE 01094 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	0.180	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
CADMIUM TOTAL RECOVERABLE 01113 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.002	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
LEAD TOTAL RECOVERABLE 01114 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
CHROMIUM TOTAL RECOVERABLE 01118 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.02	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
COPPER TOTAL RECOVERABLE 01119 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	0.023	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
ANTIMONY, TOTAL RECOVERABLE 01268 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
2-METHYL-4,6- DINITROPHENOL 03615 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.05	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 LOGAN R. OLDS  
 GENERAL MANAGER  
 TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowing violations.

*Logan Olds*  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
760	246-8638	08	12	31
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME VICTOR VALLEY WRA  
 ADDRESS 20111 SHAY ROAD  
 VICTORVILLE CA 92394-8539

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

MAJOR (SUBR 06)  
 F - FINAL  
 INFLUENT / ANNUALLY

Form Approved.  
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CA0102822  
 PERMIT NUMBER

INF Y  
 DISCHARGE NUMBER

FACILITY VICTOR VALLEY MUNI WTP  
 LOCATION VICTORVILLE CA 92394  
 ATTN MR. LOGAN R. OLDS

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	08	01	01		08	12	31

Check here if No Discharge

NOTE: Read instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
CARBON TETRACHLORIDE 32101 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0050	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
1, 2- DICHLOROETHANE 32103 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
TOLUENE 34010 G 0 0 RAW SEW/INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	0.0006	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
BENZENE 34030 G 0 0 RAW SEW/INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
ACENAPHTHYLENE 34200 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
ACENAPHTHENE 34205 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
ACROLEIN 34210 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 LOGAN R. OLDS  
 GENERAL MANAGER  
 TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowing violations.



SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
760	246-8638	08	12	31
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME VICTOR VALLEY WRA  
 ADDRESS 20111 SHAY ROAD  
 VICTORVILLE CA 92394-8539

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

MAJOR (SUBR 06)  
 F - FINAL  
 INFLUENT / ANNUALLY

Form Approved  
 OMB No. 2040-0004

CA0102822	INF Y
PERMIT NUMBER	DISCHARGE NUMBER

FACILITY VICTOR VALLEY MUNI WTP  
 LOCATION VICTORVILLE CA 92394  
 ATTN MR. LOGAN R. OLDS

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	08	01	01		08	12	31

Check here if No Discharge

NOTE: Read instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
ACRYLONITRILE 34215 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
ANTHRACENE 34220 G 0 0 RAW SEW/INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
BENZO (B) FLUORANTHENE (3, 4-BENZO) 34230 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
BENZO (K) FLUORANTHENE 34242 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
BENZO (A) PYRENE 34247 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
BIS (2-CHLOROETHOXY) ETHER 34273 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
BIS (2-CHLOROETHOXY) METHANE 34278 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowing violations.						TELEPHONE		DATE		
LOGAN R. OLDS GENERAL MANAGER							760 246-8638		08	12	31
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT						AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME VICTOR VALLEY WRA  
 ADDRESS 20111 SHAY ROAD  
 VICTORVILLE CA 92394-8539

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

CA0102822	INF Y
PERMIT NUMBER	DISCHARGE NUMBER

MAJOR (SUBR 06)  
 F - FINAL  
 INFLUENT / ANNUALLY

Form Approved.  
 OMB No. 2040-0004

FACILITY VICTOR VALLEY MUNI WTP  
 LOCATION VICTORVILLE CA 92394  
 ATTN MR. LOGAN R. OLDS

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	08	01	01		08	12	31

Check here if No Discharge

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BIS (2-CHLORO-ISOPROPYL) ETHER 34283 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
BUTYL BENZYL PHTHALATE 34292 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
CHLOROBENZENE 34301 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0100	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
CHRYSENE (AS AS) 34320 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
DIETHYL PHTHALATE 34336 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
DIMETHYL PHTHALATE 34341 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
1, 2- DIPHENYL-HYDRAZINE 34346 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 LOGAN R. OLDS  
 GENERAL MANAGER  
 TYPED OR PRINTED

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NAME VICTOR VALLEY WRA  
 ADDRESS 20111 SHAY ROAD  
 VICTORVILLE CA 92394-8539

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
ETHYLBENZENE 34371 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0100	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
FLUORANTHENE 34376 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
FLUORENE 34381 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
HEXACHLORO CYCLO- PENTADIENE 34386 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
HEXACHLORO BUTADIENE 34391 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.05	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
HEXACHLOROETHANE 34396 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
INDENO (1, 2, 3-CD) PYRENE 34403 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB

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 VICTORVILLE CA 92394-8539

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

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ISOPHORONE 34408 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
METHYL BROMIDE 34413 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0100	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
METHYLENE CHLORIDE 34423 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
N-NITROSODI-N-PROPYLAMINE 34428 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
N-NITROSODIPHENYL-AMINE 34433 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.03	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
N-NITROSODIMETHYL-AMINE 34438 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
NITROBENZENE 34447 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB

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*Logan R. Olds*  
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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PHENANTHRENE 34461 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
PYRENE 34469 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
TETRACHLOROETHYLENE 34475 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0100	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
1, 1-DICHLOROETHANE 34496 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.00050	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
1, 1-DICHLOROETHYLENE 34501 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0100	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
1, 1, 1-TRICHLOROETHANE 34506 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
1, 1, 2-TRICHLOROETHANE 34511 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
1, 1, 2, 2-TETRACHLORO-ETHANE 34516 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
BENZO (GHI) PERYLENE 34521 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
BENZO (A) ANTHRACENE 34526 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
1, 2-DICHLOROBENZENE 34536 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0100	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
1, 2-DICHLOROPROPANE 34541 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0100	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
1, 2-TRANS-DICHLORO-ETHYLENE 34546 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
1, 2, 4-TRICHLORO-BENZENE 34551 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB

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TELEPHONE 760 246-8638  
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NAME VICTOR VALLEY WRA  
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 VICTORVILLE CA 92394-8539

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
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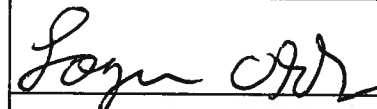
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DIBENZO (A, H) ANTHRACENE 34556 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
1, 2-DICHLOROBENZENE 34566 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
1, 4-DICHLOROBENZENE 34571 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	0.0006	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
2-CHLOROETHYL VINYL ETHER (MIXED) 34576 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
2-CHLORONAPHTHALENE 34581 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
2-CHLOROPHENOL 34586 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0500	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
2-NITROPHENOL 34591 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0100	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 LOGAN R. OLDS  
 GENERAL MANAGER  
 TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
760	246-8638	08	12	31
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME VICTOR VALLEY WRA  
 ADDRESS 20111 SHAY ROAD  
 VICTORVILLE CA 92394-8539

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

CA0102822	INF Y
PERMIT NUMBER	DISCHARGE NUMBER

MAJOR (SUBR 06)  
 F - FINAL  
 INFLUENT / ANNUALLY

Form Approved.  
 OMB No. 2040-0004

FACILITY VICTOR VALLEY MUNI WTP  
 LOCATION VICTORVILLE CA 92394  
 ATTN MR. LOGAN R. OLDS

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	08	01	01		08	12	31

Check here if No Discharge

NOTE: Read instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
DI - N - OCTYL PHTHALATE 34596 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
2, 4-DICHLOROPHENOL 34601 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
2, 4-DIMETHYLPHENOL 34606 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
2, 4-DINITROTOLUENE 34611 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
2, 4-DINITROPHENOL 34616 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
2, 4, 6-TRICHLORO-PHENOL 34621 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
2, 6-DINITROTOLUENE 34626 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.05	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
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**PERMITTEE NAME/ADDRESS** (Include Facility Name/Location if different)

**NAME** VICTOR VALLEY WRA  
**ADDRESS** 20111 SHAY ROAD  
 VICTORVILLE CA 92394-8539

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)**

CA0102822	INF Y
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**MAJOR**  
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**FACILITY** VICTOR VALLEY MUNI WTP  
**LOCATION** VICTORVILLE CA 92394  
**ATTN** MR. LOGAN R. OLDS

MONITORING PERIOD							
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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
3, 3'-DICHLORO-BENZIDINE 34631 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0100	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
4-BROMOPHENYL PHENYL ETHER 34636 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0100	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
4-CHLOROPHENYL PHENYL ETHER 34641 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0200	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
4-NITROPHENOL 34646 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0100	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
2, 3, 7, 8-TETRACHLORO-DIBENZO-P-DIOXIN 34675 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0100	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
PHENOL, SINGLE COMPOUND 34694 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0500	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
NAPHTHALENE 34696 G 0 0 RAW SEW/INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0001	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB

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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME VICTOR VALLEY WRA  
 ADDRESS 20111 SHAY ROAD  
 VICTORVILLE CA 92394-8539

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

MAJOR (SUBR 06)  
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FACILITY VICTOR VALLEY MUNI WTP  
 LOCATION VICTORVILLE CA 92394  
 ATTN MR. LOGAN R. OLDS

MONITORING PERIOD							
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PENTACHLOROPHENOL 39032 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
BIS (2-ETHYLHEXYL) PHTHALATE 39100 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	0.270	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
DI-N-BUTYL PHTHALATE 39110 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.05	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
BENZIDINE 39120 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.03	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
VINYL CHLORIDE 39175 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0100	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
TRICHLOROETHYLENE 39180 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0500	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
HEXACHLORO BENZENE 39700 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB

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NAME VICTOR VALLEY WRA  
 ADDRESS 20111 SHAY ROAD  
 VICTORVILLE CA 92394-8539

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

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FACILITY VICTOR VALLEY MUNI WTP  
 LOCATION VICTORVILLE CA 92394  
 ATTN MR. LOGAN R. OLDS

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PHENOLS 46000 G 0 0 RAW SEW/INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
4-CHLORO-3-METHYL PHENOL 70012 G 0 0 RAW SEW/ INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
MERCURY TOTAL RECOVERABLE 71901 G 0 0 RAW SEW/INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.5000	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
1,3 DICHLOROPROPENE 77163 G 0 0 RAW SEW/INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0200	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
CHLOROETHANE, TOTAL WEIGHT 34311 G 0 0 RAW SEW/INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
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**NAME** VICTOR VALLEY WRA  
**ADDRESS** 20111 SHAY ROAD  
 VICTORVILLE CA 92394-8539

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)**

CA0102822	001 Y
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**FACILITY** VICTOR VALLEY MUNI WTP  
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**ATTN** MR. LOGAN R. OLDS

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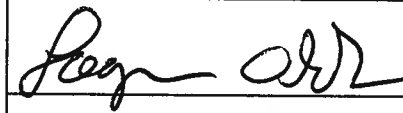
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TUC STATRE 7DAY CHR CERIODAPHNIA DUBIA TTP3B 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	1.00	( 2G)	0	2/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	CHRONC TOXCTY		ANNUAL	GRAB
TUC STATRE 7DAY CHR PIMPHALES PROMELAS TTP6C 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	1.00	( 2G)	0	3/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	CHRONC TOXCTY		ANNUAL	GRAB
CYANIDE, TOTAL (AS CN) 00720 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	6.00	( 19)	0	11/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
ARSENIC, TOTAL RECOVERABLE 00978 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
SELENIUM, TOTAL RECOVERABLE 00981 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
THALLIUM, TOTAL RECOVERABLE 00982 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.2	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
BERYLLIUM, TOTAL RECOVERABLE (AS BE) 00998 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB

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 VICTORVILLE CA 92394-8539

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
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FACILITY VICTOR VALLEY MUNI WTP  
 LOCATION VICTORVILLE CA 92394  
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NICKEL TOTAL RECOVERABLE 01074 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.02	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
SILVER TOTAL RECOVERABLE 01079 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
ZINC TOTAL RECOVERABLE 01094 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	0.043	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
CADMIUM TOTAL RECOVERABLE 01113 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.00	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
LEAD TOTAL RECOVERABLE 01114 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
CHROMIUM TOTAL RECOVERABLE 01118 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.02	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
COPPER TOTAL RECOVERABLE 01119 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB

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*Logan R. Olds*  
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TELEPHONE		DATE		
760	246-8638	08	12	31
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME VICTOR VALLEY WRA  
 ADDRESS 20111 SHAY ROAD  
 VICTORVILLE CA 92394-8539

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

CA0102822	001 Y
PERMIT NUMBER	DISCHARGE NUMBER

MAJOR (SUBR 06)  
 F - FINAL  
 DISCHARGE 001 / ANNUALLY

Form Approved  
 OMB No. 2040-0004

FACILITY VICTOR VALLEY MUNI WTP  
 LOCATION VICTORVILLE CA 92394  
 ATTN MR. LOGAN R. OLDS

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	08	01	01		08	12	31

Check here if No Discharge

NOTE: Read instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
ANTIMONY, TOTAL RECOVERABLE 01268 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
2-METHYL-4,6-DINITROPHENOL 03615 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.05	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
METHYL TERT-BUTYL ETHER 22417 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
CARBON TETRACHLORIDE 32102 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
1,2-DICHLOROETHANE 32103 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
TOLUENE 34010 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
BENZENE 34030 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 LOGAN R. OLDS  
 GENERAL MANAGER  
 TYPED OR PRINTED

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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME VICTOR VALLEY WRA  
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 VICTORVILLE CA 92394-8539

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

CA0102822 PERMIT NUMBER  
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FACILITY VICTOR VALLEY MUNI WTP  
 LOCATION VICTORVILLE CA 92394  
 ATTN MR. LOGAN R. OLDS

MONITORING PERIOD							
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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
ACENAPHTHYLENE 34200 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
ACENAPHTHENE 34205 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
ACROLEIN 34210 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
ACRYLONITRILE 34215 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
ANTHRACENE 34220 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
BENZO (B) FLUORANTHENE (3,4-BENZO) 34230 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
BENZO (K) FLUORANTHENE 34242 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE 760 246-8638  
 DATE 08 12 31  
 AREA CODE NUMBER YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME VICTOR VALLEY WRA  
 ADDRESS 20111 SHAY ROAD  
 VICTORVILLE CA 92394-8539

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

CA0102822 PERMIT NUMBER  
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FACILITY VICTOR VALLEY MUNI WTP  
 LOCATION VICTORVILLE CA 92394  
 ATTN MR. LOGAN R. OLDS

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BENZO (A) PYRENE 34247 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
BIS (2-CHLOROETHYL) ETHER 34273 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
BIS (2-CHLOROETHOXY) METHANE 34278 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
BIS (2-CHLORO-ISOPROPYL) ETHER 34283 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
BUTYL BENZYL PHTHALATE 34292 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
CHLOROBENZENE 34301 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
CHRYSENE 34320 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB

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TELEPHONE 760 246-8638  
 DATE 08 12 31  
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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME VICTOR VALLEY WRA  
 ADDRESS 20111 SHAY ROAD  
 VICTORVILLE CA 92394-8539

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

CA0102822	001 Y
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FACILITY VICTOR VALLEY MUNI WTP  
 LOCATION VICTORVILLE CA 92394  
 ATTN MR. LOGAN R. OLDS

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
DIETHYL PHTHALATE 34336 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
DIMETHYL PHTHALATE 34341 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
1, 2-DIPHENYL-HYDRAZINE 34346 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
ETHYLBENZENE 34371 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
FLUORANTHENE 34376 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
FLUORENE 343881 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
HEXACHLOROCYCLO-PENTADIENE 34386 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.05	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB

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 VICTORVILLE CA 92394-8539

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
HEXACHLOROBUTADIENE 34391 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
HEXACHLOROETHANE 34396 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
INDENO (1,2,3-CD) PYRENE 34403 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
ISOPHORONE 34408 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
METHYL BROMIDE 34413 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
METHYL CHLORIDE 34418 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
METHYLENE CHLORIDE 34423 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0300	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB

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N-NITROSODI-N-PROPYLAMINE 34428 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
N-NITROSODIPHENYL-AMINE 34433 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
N-NITROSODIMETHYL-AMINE 34438 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
NITROBENZENE 34447 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
PHENANTHRENE 34461 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
PYRENE 34469 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0000	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
TETRACHLOROETHYLENE 34475 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0100	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB

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FACILITY VICTOR VALLEY MUNI WTP  
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 ATTN MR. LOGAN R. OLDS

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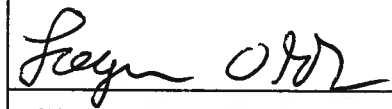
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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
1, 1-DICHLOROETHANE 34496 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
1, 1-DICHLOROETHYLENE 34501 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
1, 1, 1-TRICHLORO-ETHANE 34506 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
1, 1, 2-TRICHLORO-ETHANE 34511 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
1, 1, 2, 2-TETRACHLORO-ETHANE 34516 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
BENZO (GHI_ PERYLENE 34521 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
BENZO (A) ANTHRACENE 34526 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 LOGAN R. OLDS  
 GENERAL MANAGER  
 TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
760	246-8638	08	12	31
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME VICTOR VALLEY WRA  
 ADDRESS 20111 SHAY ROAD  
 VICTORVILLE CA 92394-8539

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

CA0102822	001 Y
PERMIT NUMBER	DISCHARGE NUMBER

MAJOR (SUBR 06)  
 F - FINAL  
 DISCHARGE 001 / ANNUALLY

Form Approved.  
 OMB No. 2040-0004

FACILITY VICTOR VALLEY MUNI WTP  
 LOCATION VICTORVILLE CA 92394  
 ATTN MR. LOGAN R. OLDS

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	08	01	01		08	12	31

Check here if No Discharge

NOTE: Read instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
1, 2-DICHLOROBENZENE 34536 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
1, 2-DICHLOROPROPANE 34541 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
1, 2-TRANS-DICHLORO-ETHYLENE 34546 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
1, 2, 4-TRICHLORO-BENZENE 34551 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
DIBENZO (A, H) ANTHRACENE 34556 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
1, 3-DICHLOROBENZENE 34566 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
1, 4-DICHLOROBENZENE 34571 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 LOGAN R. OLDS  
 GENERAL MANAGER  
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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME VICTOR VALLEY WRA  
 ADDRESS 20111 SHAY ROAD  
 VICTORVILLE CA 92394-8539

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

CA0102822 001 Y  
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MAJOR (SUBR 06)  
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FACILITY VICTOR VALLEY MUNI WTP  
 LOCATION VICTORVILLE CA 92394  
 ATTN MR. LOGAN R. OLDS

MONITORING PERIOD							
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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
2-CHLOROETHYL VINYL ETHER (MIXED) 34576 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.050	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
2-CHLORONAPHTHALENE 34581 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
2-CHLOROPHENOL 34586 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
2-NITROPHENOL 34591 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
DI-N-OCTYL PHTHALATE 34596 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
2, 4-DICHLOROPHENOL 34601 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
2, 4-DIMETHYLPHENOL 34606 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowing violations.					TELEPHONE		DATE			
LOGAN R. OLDS GENERAL MANAGER						760 246-8638		08	12	31	
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					AREA CODE	NUMBER	YEAR	MO	DAY	

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME VICTOR VALLEY WRA  
 ADDRESS 20111 SHAY ROAD  
 VICTORVILLE CA 92394-8539

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

CA0102822  
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FACILITY VICTOR VALLEY MUNI WTP  
 LOCATION VICTORVILLE CA 92394  
 ATTN MR. LOGAN R. OLDS

MONITORING PERIOD						
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2, 4-DINITROTOLUENE 34611 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
2, 4-DINITROPHENOL 34616 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.05	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
2, 4, 6-TRICHLORO-PHENOL 34621 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
2, 6-DINITROTOLUENE 34626 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
3, 3'-DICHLORO-BENZIDINE 34631 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.02	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
4-BROMOPHENYL PHENYL ETHER 34636 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
4-CHLOROPHENYL PHENYL ETHER 34641 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME VICTOR VALLEY WRA  
 ADDRESS 20111 SHAY ROAD  
 VICTORVILLE CA 92394-8539

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

MAJOR (SUBR 06)  
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CA0102822	001 Y
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FACILITY VICTOR VALLEY MUNI WTP  
 LOCATION VICTORVILLE CA 92394  
 ATTN MR. LOGAN R. OLDS

MONITORING PERIOD							
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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
4-NITROPHENOL 34646 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.05	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
2, 3, 7, 8-TETRACHLORO-DIBENZO-P-DIOXIN 34675 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.00005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
PHENOL, SINGLE COMPOUND 34694 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
NAPHTHALENE 34696 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
PENTACHLOROPHENOL 39032 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.05	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
BIS (2-ETHYLHEXYL) PHTHALATE 39100 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.030	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
DI-N-BUTYL PHTHALATE 39110 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB

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 VICTORVILLE CA 92394-8539

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

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BENZIDINE 39120 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.05	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
VINYL CHLORIDE 39175 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
TRICHLOROETHYLENE 39180 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
HEXACHLOROBENZENE 39700 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.01	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
PHENOLS 46000 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.50	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
4-CHLORO-3-METHYL PHENOL 70012 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.02	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
MERCURY TOTAL RECOVERABLE 71901 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
1,3 DICHLOROPROPENE 77163 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
CHLOROETHANE 34311 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<0.0005	( 19)	0	1/YR	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	MG/L		ANNUAL	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
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 AREA CODE NUMBER YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

**SECTION 11**

**ANNUAL  
RECYCLED WATER  
MONITORING REPORT**



Victor Valley  
Wastewater Reclamation Authority  
A joint Powers Authority and Public Agency of the State of California

20111 Shay Road Victorville California 92394  
Telephone (760) 246-8638 Fax (760) 246-5194  
E-mail: mail@vwwra.com

February 25, 2009

Mr. Harold Singer, Executive Officer  
Lahontan Regional Water Quality Control Board  
14440 Civic Drive, Suite 200  
Victorville, CA 92392

RE: Annual Recycled Water Monitoring Report for Calendar Year 2008  
Water Recycling Requirements for the Westwinds Golf Course at SCLA  
Board Order No. RV6-2003-028, RWQCB WDID No. 6B360207001

Dear Mr. Singer:

Enclosed please find the 2008 Annual SCLA Recycled Water Monitoring Report for the Victor Valley Wastewater Reclamation Authority. This report includes narrative and tabular data of operational parameters reported during calendar year 2008, as well as the results of annual testing required by the Waste Discharge Requirements.

During 2008 a total of 114.62 million gallons (352 acre-feet) of recycled water were delivered for irrigation needs at Westwinds. The recycled water was pumped into a storage pond at Westwinds for use on the golf course. Samples were collected quarterly from the storage pond and analyzed for total dissolved solids. Pond freeboard was measured and reported at least weekly.

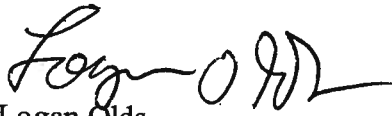
Monthly static water elevations were collected at upgradient monitoring well NZ-119, downgradient monitoring wells NZ-91 and NZ-123, and storage pond monitoring well NZ-120. Groundwater samples were collected and analyzed for the required parameters during January and August.

Recycled water has been pumped to the Westwinds golf course pond using two 250-HP 4-stage pumps with variable frequency drive (VFD) units and fully-automated controls.

If you should have any further questions, please feel free to contact me at your convenience.



Sincerely,

A handwritten signature in black ink, appearing to read "Logan Olds". The signature is fluid and cursive, with a long horizontal stroke at the end.

Logan Olds  
General Manager

**Attachments**

cc: SWRCB Discharge Monitoring Report Processing Center  
Jon Roberts, City Manager, City of Victorville  
Gilbert Perez, Director of Operations  
Marce Delaney, Pretreatment & Regulatory Compliance Supervisor  
Operations/Control Room Posting

Date February 24, 2009

California Regional Water Quality Control Board  
Lahontan Region  
14440 Civic Drive, Suite 200  
Victorville, CA 92392

Facility Name: Victor Valley Wastewater Reclamation Authority

Address: 20111 Shay Road  
Victorville, CA 92394

Contact Person: Logan Olds

Job Title: General Manager

Phone: (760) 246-8638

Email: lolds@vwwra.com

WDR/NPDES Order Number: R6V-2003-028 (SCLA Reclamation)

WDID Number: 6B360207001

Type of Report (circle one): Monthly Quarterly Semi-Annual  Annual Other

Month(s) (circle applicable month(s)\*:  JAN FEB MAR APR MAY JUN  
JUL AUG SEP OCT NOV DEC  
\*annual Reports (circle the first month of the reporting period)

Year: 2008

Violation(s)? (Please check one):  NO  YES\*

\*If YES is marked complete a-g (Attach Additional information as necessary)

a) Brief Description of Violation: \_\_\_\_\_

b) Section(s) of WDRs/NPDES Permit Violated: \_\_\_\_\_

**c) Reported Value(s) or Volume:**

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**d) WDRs/NPDES  
Limit/Condition:**

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**e) Date(s) and Duration of  
Violation(s):**

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**f) Explanation of Cause(s):**

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**g) Corrective Action(s)  
(Specify actions taken and a schedule  
for actions to be taken):**

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I certify under penalty of law that this document and all attachments were prepared under my direction or supervision following a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my knowledge of the person(s) who manage the system, or those directly responsible for data gathering, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

If you have any questions or require additional information, please contact Logan Olds or Gilbert Perez at the number provided above.

Sincerely,

Signature: \_\_\_\_\_

Name: Logan Olds

Title: General Manager

WESTWINDS GOLF COURSE  
Recycled Water Flow Report  
2008

Date	January		February		March		April		May		June	
	Reclaimed Flow to SCLA (mgd)	Peak	Reclaimed Flow to SCLA (mgd)	Peak	Reclaimed Flow to SCLA (mgd)	Peak	Reclaimed Flow to SCLA (mgd)	Peak	Reclaimed Flow to SCLA (mgd)	Peak	Reclaimed Flow to SCLA (mgd)	Peak
1	0.02						1.14	2.14	0.42	2.47	0.47	2.05
2	0.38	1.68				1.85	0.36	2.06	0.41	2.25	0.51	2.37
3					0.38	1.91	0.37	1.91	0.40	2.07	0.51	2.28
4					0.35		0.35	1.91	0.39	2.09	0.48	2.42
5						2.26	0.32	1.70	0.41	2.37	0.52	2.37
6					0.39	1.88	0.40	1.71	0.44	2.31	0.53	2.42
7			0.419	2.46	0.37			2.04	0.44	2.46	0.49	2.01
8							0.42		0.43	2.31	0.50	2.05
9						1.84	0.39	2.38	0.44	2.41	0.54	2.29
10					0.38	1.87	0.38	2.32	0.42	2.02	0.52	2.20
11			0.414	1.99	0.39			2.17	0.46	2.05	0.55	2.39
12						2.20	0.35	1.67	0.49	2.49	0.54	2.27
13			0.125	2.19	0.43	2.22	0.36	1.68	0.49	2.47	0.56	2.45
14	0.41	2.47	0.125		0.39			2.12	0.49	2.43	0.52	2.10
15			0.125				0.38	2.17	0.50	2.43	0.53	2.16
16							0.40	1.93	0.52	2.47	0.54	2.29
17						2.23	0.39	2.06	0.49	2.08	0.59	2.40
18			0.357		0.41	1.31	0.38	2.23	0.49	2.05	0.59	2.39
19						2.05	0.38	1.65	0.49	2.17	0.60	2.40
20					0.38	1.66	0.33	1.64	0.35	2.37	0.60	2.43
21					0.35		0.32	2.26	0.75	2.56	0.64	2.40
22	0.02					1.90	0.49	2.21	0.48	2.10	0.61	2.13
23	0.39	2.67			0.37	1.67	0.42	2.25	0.49	2.20	0.61	2.44
24			0.383	2.2	0.35	1.80	0.41	2.21	0.48	2.07	0.65	2.39
25			0.387	1.88	0.40	1.91	0.39	1.85	0.48	2.08	0.72	2.00
26				0	0.37	2.21	0.37	1.68	0.48	2.10	0.71	2.28
27			0.374	2.11	0.39	2.01	0.35	1.70	0.48	2.29	0.73	2.40
28			0.359	1.9	0.38	2.05	0.35	1.94	0.53	2.29	0.64	2.17
29			0.003	0	0.37	1.66	0.40	2.08	0.51	2.37	0.63	2.13
30					0.35	1.69	0.38		0.51	2.67	0.70	2.45
31					0.35	2.15			0.47	2.70		
TOTAL (mg)	1.21		3.07		7.52		10.99		14.62		17.31	
Average (mgd)	0.24		0.28		0.38		0.41		0.47		0.58	
Maximum (mgd)	0.41	2.67	0.42	2.46	0.43	2.26	1.14	2.38	0.75	2.70	0.73	2.45
Acre Feet/month	3.72		9.42		23.08		33.72		44.87		53.11	

WESTWINDS GOLF COURSE  
Recycled Water Flow Report  
2008

Date	July		August		September		October		November		December	
	Reclaimed Flow to SCLA (mgd)	Peak	Reclaimed Flow to SCLA (mgd)	Peak	Reclaimed Flow to SCLA (mgd)	Peak	Reclaimed Flow to SCLA (mgd)	Peak	Reclaimed Flow to SCLA (mgd)	Peak	Reclaimed Flow to SCLA (mgd)	Peak
1	0.66	2.50	0.08		0.54	1.79						
2	0.68	2.11	0.14	1.59	0.56	2.06	0.40	1.86	0.05	2.53		
3	0.68	2.46	0.60	1.96	0.55	1.87			0.33	1.81	0.37	2.46
4	0.64	2.05	0.62	2.38	0.52	2.00			0.40	2.39		
5	0.64	2.17	0.62	2.42	0.48	1.87	0.39	2.12				
6	0.63	2.10	0.61	2.37	0.46	1.69			0.39	2.06		
7	0.68	2.45	0.60	2.34	0.06	1.66	0.41	2.20			0.36	2.27
8	0.68	1.90	0.61	2.22	0.88	1.85	0.48	2.21				
9	0.66	1.88	0.59		0.50	2.02	0.46	1.94	0.39	2.33		
10	0.69	2.18	0.57		0.48	1.85	0.48	2.08			0.39	2.58
11	0.63	1.88	0.64	2.42	0.49	2.01						
12	0.03	3.55	0.61	2.39			0.41	1.76	0.39	2.36		
13	0.54	1.79	0.58	2.33	0.49	1.89	0.32	2.07				
14	0.71	1.89	0.58	2.21	0.46	1.62	0.10				0.36	2.35
15	0.03		0.58	2.42	0.50	2.18	0.45	2.19				
16	0.63	2.08	0.54	2.05	0.49	2.03	0.40	1.62	0.41	2.45		
17	0.53	1.64	0.54	2.07	0.49	2.11						
18	0.55	1.97	0.57	2.40	0.42	1.86						
19	0.54	1.62	0.61	2.32	0.42	2.00	0.46	2.32	0.41	2.51		
20	0.53	1.63	0.55	2.18	0.38	1.63	0.41	1.76				
21	0.55	1.89	0.57	2.33	0.38	1.63	0.39	1.78				
22	0.55	1.91	0.57	2.33	0.08	1.85	0.40	1.83				
23	0.55	1.90	0.54	2.06	0.42	1.86	0.39	1.78	0.38	2.13		
24	0.57	2.14	0.54	2.03	0.41	1.88			0.36	2.07		
25	0.56	2.00	0.58	2.25	0.45	2.17			0.37	2.19		
26	0.53	1.65	0.55	2.37	0.42	1.85	0.39	1.97				
27	0.53	1.66	0.60	2.32	0.40	1.69	0.38	1.97				
28	0.60	2.01	0.58	2.43	0.40	1.72						
29	0.55	2.09			0.43	2.08	0.01	0.53				
30	0.59	1.86	0.59	2.42	0.42	1.84	0.44	2.33				
31	0.56	1.98	0.56	1.98								
TOTAL (mg)	17.48		16.52		12.98		7.55		3.88		1.48	
Average (mgd)	0.56		0.55		0.45		0.38		0.35		0.37	
Maximum (mgd)	0.71	3.55	0.64	2.43	0.88	2.18	0.48	2.33	0.41	2.53	0.39	2.58
Acre Feet/month	53.66		50.70		39.84		23.16		11.91		4.53	

TOTAL	
MG/Year	114.60
Acre Feet/Year	351.71

WESTWINDS GOLF COURSE  
Recycled Water Monitoring Schedule  
2008

Parameter	Station	Units	Type of Sample	Frequency
Flow	Final Effluent Station	mgd	continuous	continuous
Turbidity	Chlorine Contact Tank	NTU	continuous	continuous
Chlorine Residual	Chlorine Contact Tank (effluent prior to dechlorination)	mg/L	continuous	continuous
CT	Chlorine Contact Tank	mg-minutes/L	Calculated	Daily
Total Coliform	Chlorine Contact Tank	MPN/100ml	Grab	Daily
pH	SBMS	pH Units	Grab	Daily
Dissolved Oxygen	SBMS	mg/L	Grab	Weekly
Total Dissolved Solids (TDS)	Storage Pond	mg/L	Grab	Quarterly

WESTWINDS GOLF COURSE  
Recycled Water Monitoring  
2008

MONITORING	Continuous					Daily							Weekly	Quarterly	
	Recycled Flow Flow mgd	Peak mgd	24 HR ntu	Turbidity Daily Max ntu	> 5 ntu % of day	Chlorine Residual Daily Min mg/l    Daily Max mg/l		Total Coliform #/100 ml	Modal CT Value Min minutes    Max minutes    Min CT Mg/min/L    Max CT Mg/min/L				pH	D.O mg/l	pond TDS mg/l
JANUARY															
1			1.07	3.70	0.00	8.20	8.60	<2.0	155	212	1268	1822	6.8	7.34	
2	0.38	1.68	1.21	3.90	0.00	7.40	8.10	2.00	169	209	1248	1697	6.8		
3			1.31	6.80	0.00	7.40	8.70	<2.0	160	191			6.7		
4			1.29	4.10	0.00	7.10	8.60	<2.0	162	172			6.7		
5			1.18	3.60	0.00	7.70	8.10	<2.0	151	216			6.9		
6			1.09	3.00	0.00	7.40	8.20	<2.0	135	166			6.8		
7			1.08	2.40	0.00	6.80	8.10	<2.0	155	182			6.8		
8			1.25	2.40	0.00	3.70	7.80	<2.0	120	151			6.8	6.89	385.00
9			1.23	8.10	0.00	6.50	9.90	<2.0	152	183			6.7		
10			1.13	2.00	0.00	2.80	7.10	<2.0	154	175	432	1244	6.9		
11			1.34	4.30	0.00	7.10	10.00	<2.0	167	187	1186	1873	6.8		
12			1.16	2.30	0.00	8.00	8.90	<2.0	149	180	1195	1605	6.7		
13			0.96	2.80	0.00	6.00	7.80	<2.0	157	159			6.8		
14	0.41	2.47	0.98	2.60	0.00	7.00	7.90	<2.0	165	184	1152	1451	6.7		
15			0.91	2.10	0.00	6.10	8.00	<2.0	137	153			6.7	7.12	
16			0.94	2.10	0.00	6.50	6.80	<2.0	128	146			6.7		
17			1.01	6.10	0.00	5.20	8.20	<2.0	141	145			6.6		
18			0.92	1.90	0.00	6.60	8.30	<2.0	128	156			6.6		
19			0.89	1.60	0.00	6.20	7.70	<2.0	136	151			6.7		
20			0.82	1.10	0.00	7.00	7.80	<2.0	129	154	903	1202	6.7		
21			0.92	1.10	0.00	7.10	7.70	<2.0	119	134			6.7		
22			1.24	3.70	0.00	8.10	9.50	<2.0	123	165	1000	1566	6.6	7.25	
23	0.39	2.67	1.24	1.80	0.00	3.70	7.10	<2.0	136	158	504	1122	6.7		
24			1.15	4.30	0.00	4.00	7.60	<2.0	118	146			6.7		
25			1.09	2.60	0.00	6.20	7.50	<2.0	101	152			6.7		
26			1.06	1.40	0.00	6.40	7.90	<2.0	126	153			7.1		
27			1.05	6.40	0.00	3.50	7.50	<2.0	84	152			6.8		
28			0.88	2.10	0.00	7.00	7.60	<2.0	117	141			6.5		
29			0.89	1.70	0.00	8.40	9.80	<2.0	135	148			6.7	7.28	
30			0.93	2.10	0.00	8.40	10.00	<2.0	131	156			6.5		
31			0.89	1.20	0.00	6.80	7.70	<2.0	120	129			6.5		
TOTAL	1.17														
AVG	0.39		1.07	3.07		6.46	8.21		137	165	988	1509	6.0-9.0	7.18	385
LIMIT	1.50		2.00	10.00	5.00				90		450			1.00	
MIN	0.38	1.68	0.82	1.10	0.00	2.80	6.80	2.00	84	129	432	1122	7	6.89	
MAX	0.41	2.67	1.34	8.10	0.00	8.40	10.00	2.00	169	216	1268	1873	7	7.34	

WESTWINDS GOLF COURSE  
Recycled Water Monitoring  
2008

MONITORING	Continuous					Daily							Weekly	Quarterly
	Recycled Flow Flow mgd	Peak mgd	24 HR ntu	Turbidity Daily Max ntu	> 5 ntu % of day	Chlorine Residual Daily Min mg/l	Daily Max mg/l	Total Coliform #/100 ml	Modal CT Value				pH	D.O mg/l
								Min minutes	Max minutes	Min CT Mg/min/L	Max CT Mg/min/L			
FEBRUARY														
1			0.97	2	0.00	7.30	9.10	<2.0	125	149			6.59	
2			1.11	3.1	0.00	7.40	7.90	<2.0	120	151			6.73	
3			1.13	2	0.00	7.40	9.50	<2.0	118	142			6.7	
4			1.05	1.5	0.00	5.60	7.60	<2.0	124	149			6.59	
5			1.16	3.2	0.00	7.20	8.50	<2.0	140	149			6.59	7.38
6			1.21	3	0.00	3.60	7.10	<2.0	118	155			6.59	
7	0.42	2.46	1.24	2.8	0.00	8.50	9.40	<2.0	110	167	934	1573	6.53	
8			1.25	1.9	0.00	7.40	8.00	<2.0	137	167			6.57	
9			1.56	2.3	0.00	8.30	10.00	<2.0	124	157			6.81	
10			1.28	1.7	0.00	6.60	10.00	<2.0	123	143			6.69	
11	0.41	1.99	1.27	1.6	0.00	6.20	8.20	<2.0	125	134	776	1096	6.56	
12			1.12	1.4	0.00	7.50	7.80	<2.0	127	148			6.65	6.98
13	0.13	2.19	1.14	2	0.00	8.00	8.20	<2.0	128	148	1027	1215	6.51	
14	0.13		1.31	2.7	0.00	10.00	10.00	<2.0	133	176	1325	1758	6.55	
15	0.13		1.29	1.7	0.00	8.20	9.60	<2.0	134	166	1100	1597	6.48	
16			1.24	5.1	0.00	10.00	10.00	<2.0	130	149			6.61	
17			0.97	1.4	0.00	6.40	7.60	<2.0	126	144			6.53	
18			0.9	1.3	0.00	6.30	8.00	<2.0	105	122	663	979	6.64	
19			0.89	2.3	0.00	5.60	7.40	<2.0	107	124			6.56	6.45
20			0.83	1	0.00	7.50	8.90	<2.0	120	130			6.49	
21			0.81	1	0.00	8.20	9.30	<2.0	122	136			6.6	
22			0.81	1.1	0.00	8.10	10.00	<2.0	120	129			6.61	
23			0.8	4.5	0.00	6.70	9.00	<2.0	127	139			6.74	
24	0.38	2.20	0.9	1.5	0.00	8.80	11.70	<2.0	101	150	891	1760	6.64	
25	0.39	1.88	0.95	1.2	0.00	6.40	8.40	<2.0	110	120	706	1012	6.61	
26			0.96	8.1	0.00	5.60	9.00	<2.0	103	111			6.73	6.12
27	0.37	2.11	1.17	1.4	0.00	7.20	9.40	<2.0	101	112	724	1049	6.58	
28	0.36	1.90	1.33	3.2	0.00	7.80	8.50	<2.0	98	116	768	987	6.58	
			1.09	1.5	0	6.3	8.2	<2.0		107		875	6.42	
TOTAL	2.71													
AVG	0.30		1.09	2.33		7.24	8.84		120	141	891	1264	6.0-9.0	6.73
LIMIT	1.50		2.00	10.00	5.00				90		450			1.00
MIN	0.13	1.88	0.80	1.00	0.00	3.60	7.10	0.00	98	107	663	875	6.4	6.12
MAX	0.42	2.46	1.56	8.10	0.00	10.00	11.70	0.00	140	176	1325	1760	6.8	7.38

#DIV/0!



WESTWINDS GOLF COURSE  
Recycled Water Monitoring  
2008

MONITORING	Continuous							Daily					Weekly	Quarterly	
	Recycled Flow Flow mgd	Peak mgd	24 HR ntu	Turbidity Daily Max ntu	> 5 ntu % of day	Chlorine Residual Daily Min mg/l    Daily Max mg/l		Total Coliform #/100 ml	Modal CT Value Min minutes    Max minutes    Min CT Mg/min/L    Max CT Mg/min/L				pH	D.O mg/l	pond TDS mg/l
MARCH															
1			1.39	9.30	0.00	7.90	8.20	<2.0	92	113	731	926	6.7		
2			1.40	1.80	0.00	6.30	9.30	<2.0	97	100			6.7		
3	0.38	1.91	1.12	1.70	0.00	7.10	8.30	<2.0	100	103	711	851	6.7		
4	0.35		0.92	2.80	0.00	7.60	7.60	<2.0	98	106	743	804	6.7	6.80	
5		2.26	0.82	1.10	0.00	7.60	8.00	<2.0	81	103			6.7		
6	0.39	1.88	0.88	1.50	0.00	6.90	8.40	<2.0	95	111	656	931	6.6		
7	0.37		0.89	1.20	0.00	7.70	7.90	<2.0	99	118	766	935	6.6		
8			1.07	1.80	0.00	5.20	8.30	<2.0	93	104			6.6		
9		1.84	1.04	1.50	0.00	4.60	7.20	<2.0	96	101			6.6		
10	0.38	1.87	1.16	3.10	0.00	6.50	8.00	<2.0	98	102	638	812	6.5		
11	0.39		1.22	1.50	0.00	7.00	7.70	<2.0	97	108	678	832	6.6	6.40	
12		2.20	1.08	1.40	0.00	6.90	7.50	<2.0	99	107	685	802	6.7		
13	0.43	2.22	1.03	1.40	0.00	5.40	7.40	<2.0	96	98	518	725	6.6		
14	0.39		0.90	1.30	0.00	6.90	7.10	<2.0	101	111	695	789	6.6		
15			0.97	1.30	0.00	6.00	7.20	<2.0	92	99			6.6		
16			1.02	1.50	0.00	6.10	7.60	<2.0	87	93			6.7		
17		2.23	0.94	1.20	0.00	6.90	7.60	4.00	88	100			6.6		
18	0.41	1.31	0.96	1.40	0.00	5.70	6.90	2.00	83	119	473	819	6.7	6.90	
19		2.05	1.06	1.30	0.00	5.90	10.40	<2.0	92	99			6.7		
20	0.38	1.66	0.97	1.30	0.00	6.40	6.90	2.00	94	99	604	681	6.6		
21	0.35		1.00	3.80	0.00	5.80	9.80	<2.0	126	135	730	1322	6.6		
22		1.90	0.95	1.50	0.00	5.50	8.00	<2.0	120	134			6.6		
23	0.37	1.67	1.20	9.00	0.00	6.90	8.80	<2.0	118	143	812	1257	6.6		
24	0.35	1.80	0.83	1.00	0.00	6.80	7.50	<2.0	110	153	751	1145	6.6		
25	0.40	1.91	0.78	0.90	0.00	6.50	7.90	2.00	127	136	828	1078	6.6	7.40	
26	0.37	2.21	0.74	1.60	0.00	6.90	7.50	<2.0	128	131	880	980	6.6		
27	0.39	2.01	0.75	1.00	0.00	6.50	7.90	<2.0	125	134	815	1057	6.7		
28	0.38	2.05	0.76	0.90	0.00	6.30	7.40	<2.0	127	134	802	995	6.6		
29	0.37	1.66	0.80	1.20	0.00	6.90	7.80	<2.0	115	131	796	1023	6.7		
30	0.35	1.69	0.85	1.10	0.00	7.00	7.70	<2.0	115	123	806	947	6.7		
31	0.35	2.15	0.86	1.10	0.00	7.30	7.60	<2.0	123	135	900	1023	6.6		
TOTAL	7.52														
AVG	0.38		0.98	2.02		6.55	7.92		103.61	115.58	728.09	942.45	6.0-9.0	6.88	#DIV/0!
LIMIT	1.50		2.00	10.00	5.00				90.00		450.00			1.00	
MIN	0.35	1.31	0.74	0.90	0.00	4.60	6.90	2.00	81.00	93.00	473.00	681.00	6.49	6.40	
MAX	0.43	2.26	1.40	9.30	0.00	7.90	10.40	4.00	128.00	153.00	900.00	1322.00	6.73	7.40	

WESTWINDS GOLF COURSE  
Recycled Water Monitoring  
2008

MONITORING	Continuous					Daily							Weekly	Quarterly	
	Recycled Flow Flow mgd	Peak mgd	24 HR ntu	Turbidity Daily Max ntu	> 5 ntu % of day	Chlorine Residual Daily Min mg/l    Daily Max mg/l		Total Coliform #/100 ml	Modal CT Value Min minutes    Max minutes    Min CT Mg/min/L    Max CT Mg/min/L				pH	D.O mg/l	pond TDS mg/l
APRIL															
1	1.14	2.14	0.94	1.20	0.00	6.50	7.50	<2.0	120	130	783	978	6.6	7.5	
2	0.36	2.06	1.04	1.30	0.00	6.80	7.60	<2.0	117	127	799	968	6.5		
3	0.37	1.91	1.11	1.40	0.00	7.20	7.70	<2.0	120	128	861	984	6.7		
4	0.35	1.91	1.14	2.30	0.00	7.10	7.50	<2.0	122	126	864	942	6.5		
5	0.32	1.70	1.05	1.40	0.00	6.80	9.90	<2.0	110	133	750	1317	6.7		
6	0.40	1.71	1.03	1.30	0.00	7.10	8.20	<2.0	119	124	844	1017	6.8		
7		2.04	1.00	1.50	0.00	6.80	7.90	<2.0	113	119			6.6		
8	0.42		0.00	1.40	0.00	7.10	7.40	<2.0	111	132	787	977	6.6	7.4	316.00
9	0.39	2.38	1.22	1.50	0.00	6.50	10.50	<2.0	122	142	792	1491	6.6		
10	0.38	2.32	1.21	1.50	0.00	6.80	8.00	<2.0	128	132	867	1055	6.5		
11		2.17	1.36	1.60	0.00	6.70	8.72	2.00	124	128			6.5		
12	0.35	1.67	1.46	1.90	0.00	6.90	7.60	<2.0	129	133	891	1011	6.7		
13	0.36	1.68	1.45	2.00	0.00	6.80	7.50	<2.0	126	130	856	974	6.7		
14		2.12	1.33	1.60	0.00	7.10	7.70	<2.0	123	139			6.6		
15	0.38	2.17	1.21	1.50	0.00	6.90	7.70	<2.0	133	140	916	1075	6.6	6.38	
16	0.40	1.93	1.09	1.40	0.00	6.90	7.80	<2.0	130	133	899	1039	6.7		
17	0.39	2.06	0.98	1.40	0.00	6.50	7.90	<2.0	128	132	831	1042	6.6		
18	0.38	2.23	0.96	1.30	0.00	6.80	8.60	<2.0	128	150	873	1287	6.6		
19	0.38	1.65	0.93	1.20	0.00	7.40	9.70	<2.0	121	155	893	1499	6.7		
20	0.33	1.64	0.93	1.20	0.00	6.90	10.30	<2.0	116	141	799	1449	6.5		
21	0.32	2.26	0.89	1.20	0.00	7.00	8.10	<2.0	133	145	934	1174	6.5		
22	0.49	2.21	0.87	1.10	0.00	7.20	8.20	<2.0	133	143	954	1169	6.5	6.9	
23	0.42	2.25	0.76	1.00	0.00	6.20	7.70	<2.0	136	162	844	1251	6.5		
24	0.41	2.21	0.67	0.90	0.00	6.50	8.10	<2.0	132	138	855	1120	6.6		
25	0.39	1.85	0.79	1.00	0.00	7.60	10.50	<2.0	133	135	1007	1420	6.6		
26	0.37	1.68	0.80	1.00	0.00	6.90	9.30	<2.0	131	148	904	1375	6.7		
27	0.35	1.70	0.76	1.00	0.00	7.30	8.50	<2.0	121	126	882	1068	6.7		
28	0.35	1.94	0.82	2.40	0.00	7.30	8.60	<2.0	129	138	941	1191	6.5		
29	0.40	2.08	0.77	0.90	0.00	7.30	8.70	<2.0	130	160	947	1389	6.7	7.14	
30	0.38				0.00			2.00					6.7		
TOTAL	10.99														
AVG	0.41		0.99	1.39		6.93	8.39		125	137	868	1164	6.0-9.0	7.06	316
LIMIT	1.50		2.00	10.00	5.00				90		450			1.00	
MIN	0.32	1.64	0.00	0.90	0.00	6.20	7.40	2.00	110	119	750	942	6.5	6.38	
MAX	1.14	2.38	1.46	2.40	0.00	7.60	10.50	2.00	136	162	1007	1499	6.8	7.50	

WESTWINDS GOLF COURSE  
Recycled Water Monitoring  
2008

MONITORING	Continuous					Daily							Weekly	Quarterly	
	Recycled Flow mgd	Peak mgd	24 HR ntu	Turbidity Daily Max ntu	> 5 ntu % of day	Chlorine Residual Daily Min mg/l	Daily Max mg/l	Total Coliform #/100 ml	Min minutes	Max minutes	Min CT Mg/min/L	Max CT Mg/min/L	pH	D.O mg/l	pond TDS mg/l
MAY															
1	0.42	2.47	0.86	1.20	0.00	6.80	7.60	<2.0	134	135	911	1025	6.6		
2	0.41	2.25	0.82	1.00	0.00	6.80	9.20	<2.0	111	145	755	1333	6.7		
3	0.40	2.07	0.99	1.40	0.00	8.80	9.10	<2.0	126	175	1112	1595	6.8		
4	0.39	2.09	0.88	1.10	0.00	7.10	9.30	<2.0	131	162	931	1511	6.7		
5	0.41	2.37	0.74	0.90	0.00	6.90	7.80	<2.0	129	136	887	1061	6.5		
6	0.44	2.31	0.62	0.80	0.00	6.50	7.70	<2.0	124	133	809	1025	6.7	7.41	
7	0.44	2.46	0.74	10.00	0.00	6.90	8.20	2.00	126	160	871	1309	6.7		
8	0.43	2.31	0.72	0.90	0.00	6.80	7.80	<2.0	126	134	853	1045	6.6		
9	0.44	2.41	0.69	0.90	0.00	7.20	7.70	<2.0	121	145	870	1116	6.7		
10	0.42	2.02	0.78	1.10	0.00	7.60	7.80	<2.0	114	139	865	1087	7.1		
11	0.46	2.05	0.82	8.70	0.00	7.70	7.80	<2.0	117	148	900	1151	6.8		
12	0.49	2.49	0.83	1.00	0.00	7.70	8.00	<2.0	128	131	984	1045	6.7		
13	0.49	2.47	0.86	1.10	0.00	7.00	7.60	<2.0	129	150	902	1143	6.8	7.43	
14	0.49	2.43	0.84	1.00	0.00	6.90	7.40	<2.0	126	138	869	1022	6.7		
15	0.50	2.43	0.88	1.40	0.00	7.00	9.50	<2.0	121	141	844	1342	6.7		
16	0.52	2.47	0.79	5.40	0.00	7.00	7.80	<2.0	111	119	776	931	6.6		
17	0.49	2.08	0.83	1.30	0.00	6.80	7.90	<2.0	110	136	749	1075	6.7		
18	0.49	2.05	0.77	1.10	0.00	7.80	8.60	<2.0	114	158	887	1361	6.8		
19	0.49	2.17	0.76	1.00	0.00	7.50	7.80	<2.0	126	147	943	1144	6.6		
20	0.35	2.37	1.30	10.00	0.00	8.80	8.90	<2.0	125	166	1102	1474	6.6	6.8	
21	0.75	2.56	1.01	4.90	0.00	7.20	7.60	<2.0	133	161	956	1222	6.4		
22	0.48	2.10	0.96	5.60	0.00	7.40	12.10	<2.0	117	131	866	1583	6.8		
23	0.49	2.20	0.81	1.00	0.00	5.90	8.70	<2.0	130	145	768	1261	6.6		
24	0.48	2.07	0.81	1.20	0.00	6.40	8.90	<2.0	117	132	746	1171	6.9		
25	0.48	2.08	0.80	10.00	0.00	6.40	7.90	<2.0	117	137	746	1083	6.6		
26	0.48	2.10	0.76	0.90	0.00	7.50	7.60	<2.0	125	154	934	1168	6.7		
27	0.48	2.29	0.70	0.90	0.00	7.20	7.40	<2.0	125	148	901	1098	6.7	6.95	
28	0.53	2.29	0.70	0.90	0.00	7.20	7.40	2.00	125	151	902	1115	6.7		
29	0.51	2.37	0.91	10.00	0.00	6.80	10.70	<2.0	119	120	811	1282	6.6		
30	0.51	2.67	0.99	1.40	0.00	8.20	11.30	<2.0	151	166	1242	1874	6.6		
31	0.47	2.70	1.02	1.60	0.00	6.30	8.47	<2.0	112	132	706	1115	6.6		
TOTAL	14.62														
AVG	0.47		0.84	2.89		7.16	8.44		123	144	884	1218	6.0-9.0	7.15	#DIV/0!
LIMIT	1.50		2.00	10.00	5.00				90		450			1.00	
MIN	0.35	2.02	0.62	0.80	0.00	5.90	7.40	2.00	110	119	706	931	6.4	6.80	
MAX	0.75	2.70	1.30	10.00	0.00	8.80	12.10	2.00	151	175	1242	1874	7.1	7.43	

WESTWINDS GOLF COURSE  
Recycled Water Monitoring  
2008

MONITORING	Continuous						Daily						Weekly	Quarterly	
	Recycled Flow mgd	Peak mgd	24 HR ntu	Turbidity Daily Max ntu	> 5 ntu % of day	Chlorine Residual Daily Min mg/l	Daily Max mg/l	Total Coliform #/100 ml	Min minutes	Max minutes	Min CT Mg/min/L	Max CT Mg/min/L			pH
JUNE															
1	0.47	2.05	0.90	2.10	0.00	6.00	7.00	<2.0	131.00	132.00	785.00	922.00	6.84		
2	0.51	2.37	0.61	1.10	0.00	7.40	7.50	<2.0	133.00	152.00	984.00	1143.00	6.67		
3	0.51	2.28	0.77	1.20	0.00	6.70	7.10	<2.0	130.00	162.00	872.00	1152.00	6.74	5.88	
4	0.48	2.42	0.13	0.10	0.00	6.40	9.40	<2.0	133.00	145.00	850.00	1361.00	6.84		
5	0.52	2.37	0.77	0.90	0.00	7.90	8.40	<2.0	131.00	151.00	1036.00	1272.00	6.65		
6	0.53	2.42	0.70	1.10	0.00	7.50	7.80	<2.0	126.00	136.00	948.00	1058.00	6.67		
7	0.49	2.01	0.69	1.00	0.00	5.90	8.10	<2.0	120.00	134.00	708.00	1089.00	6.68		
8	0.50	2.05	0.61	0.70	0.00	6.40	7.20	<2.0	135.00	140.00	864.00	1006.00	6.81		
9	0.54	2.29	0.63	0.80	0.00	6.60	7.10	2.00	130.00	134.00	858.00	949.00	6.85		
10	0.52	2.20	0.74	0.80	0.00	7.50	7.60	<2.0	136.00	154.00	1018.00	1170.00	6.77	5.32	
11	0.55	2.39	0.77	0.90	0.00	6.50	7.70	<2.0	130.00	133.00	842.00	1022.00	6.77		
12	0.54	2.27	0.83	1.30	0.00	8.50	8.60	<2.0	118.00	145.00	1007.00	1246.00	6.87		
13	0.56	2.45	0.79	9.90	0.00	7.90	7.90	<2.0	120.00	140.00	947.00	1106.00	6.79		
14	0.52	2.10	0.84	1.30	0.00	6.60	10.10	<2.0	117.00	136.00	772.00	1369.00	6.82		
15	0.53	2.16	0.74	1.40	0.00	6.30	8.90	<2.0	132.00	134.00	829.00	1192.00	6.96		
16	0.54	2.29	0.71	1.00	0.00	7.50	8.10	<2.0	128.00	151.00	960.00	1220.00	6.74		
17	0.59	2.40	0.62	0.80	0.00	6.40	7.60	2.00	134.00	206.00	858.00	1569.00	6.63	2.46	
18	0.59	2.39	0.59	0.80	0.00	6.30	7.70	<2.0	133.00	184.00	837.00	1414.00	6.79		
19	0.60	2.40	0.62	1.20	0.00	6.50	9.30	<2.0	128.00	167.00	833.00	1554.00	6.63		
20	0.60	2.43	0.67	1.00	0.00	6.30	7.30	<2.0	130.00	155.00	820.00	1135.00	6.70		
21	0.64	2.40	0.78	1.30	0.00	7.30	7.90	<2.0	128.00	176.00	932.00	1389.00	6.82		
22	0.61	2.13	0.81	1.30	0.00	6.40	8.90	<2.0	127.00	196.00	813.00	1740.00	6.80		
23	0.61	2.44	0.75	0.90	0.00	6.07	8.32	<2.0	134.00	184.00	813.00	1528.00	6.78		
24	0.65	2.39	0.75	1.00	0.00	6.40	7.50	<2.0	134.00	200.00	860.00	1501.00	6.77	2.42	
25	0.72	2.00	0.78	1.00	0.00	5.90	7.10	<2.0	144.00	163.00	850.00	1157.00	6.70		
26	0.71	2.28	0.69	2.40	0.00	6.70	7.30	<2.0	130.00	166.00	872.00	1214.00	6.70		
27	0.73	2.40	0.65	1.40	0.00	6.70	7.30	<2.0	131.00	160.00	874.00	1169.00	6.71		
28	0.64	2.17	0.68	9.90	0.00	6.60	7.60	<2.0	131.00	162.00	867.00	1233.00	7.00		
29	0.63	2.13	0.67	5.25	0.00	6.70	7.60	<2.0	129.00	212.00	861.00	1613.00	6.84		
30	0.70	2.45	0.71	0.90	0.00	6.90	7.90	<2.0	138.00	219.00	949.00	1730.00	6.87		
TOTAL	17.31														
AVG	0.58		0.70	1.83		6.76	7.93		130	161	877	1274	6.0-9.0	4.02	#DIV/0!
LIMIT	1.50		2.00	10.00	5.00				90		450			1.00	
MIN	0.47	2.00	0.13	0.10	0.00	5.90	7.00	2.00	117	132	708	922	6.6	2.42	
MAX	0.73	2.45	0.90	9.90	0.00	8.50	10.10	2.00	144	219	1036	1740	7.0	5.88	

WESTWINDS GOLF COURSE  
Recycled Water Monitoring  
2008

MONITORING	Continuous					Daily							Weekly	Quarterly		
	Recycled Flow mgd	Peak mgd	24 HR ntu	Turbidity Daily Max ntu	> 5 ntu % of day	Chlorine Residual Daily Min mg/l	Daily Max mg/l	Total Coliform #/100 ml	Modal CT Value				pH	D.O mg/l	pond TDS mg/l	
									Min minutes	Max minutes	Min CT Mg/min/L	Max CT Mg/min/L				
JULY																
1	0.66	2.50	0.67	0.80		6.60	8.10	<2.0	138	190	913	1538	6.7			
2	0.68	2.11	0.71	0.90		6.50	7.40	<2.0	134	177	872	1309	6.8	4.51		
3	0.68	2.46	0.81	2.20		6.60	8.50	<2.0	128	150	843	1273	6.7			
4	0.64	2.05	0.82	1.30		6.90	7.50	<2.0	128	170	881	1274	6.9			
5	0.64	2.17	0.80	1.10		6.60	7.40	<2.0	133	146	875	1081	6.9			
6	0.63	2.10	0.82	1.10		6.40	7.50	<2.0	132	167	847	1249	6.8			
7	0.68	2.45	0.81	1.20		6.60	7.20	<2.0	137	191	905	1374	6.8			
8	0.68	1.90	0.83	1.10		6.90	7.30	2.00	130	186	899	1358	6.7	4.51	395.00	
9	0.66	1.88	0.92	1.20		6.20	7.50	<2.0	131	158	810	1182	6.9			
10	0.69	2.18	0.92	1.40		6.60	8.20	<2.0	131	144	864	1184	6.8			
11	0.63	1.88	0.95	1.40		6.70	7.30	<2.0	129	151	862	1101	6.7			
12	0.03	3.55	1.00	3.00		6.60	8.97	<2.0	124	138	816	1242	6.9			
13	0.54	1.79	0.88	1.20		6.60	7.70	<2.0	138	185	910	1423	6.8			
14	0.71	1.89	0.88	1.20		6.30	7.60	<2.0	139	195	874	1481	6.7			
15	0.03		0.95	1.70		5.80	8.10	<2.0	121	149	701	1210	6.6	4.63		
16	0.63	2.08	0.99	1.90		6.90	7.80	<2.0	128	188	884	1468	6.7			
17	0.53	1.64	0.97	1.30		6.80	7.40	<2.0	136	154	925	1139	6.8			
18	0.55	1.97	1.07	9.90		6.50	8.60	<2.0	123	185	797	1587	6.8			
19	0.54	1.62	1.06	9.90		6.70	7.80	<2.0	137	173	918	1352	6.7			
20	0.53	1.63	1.03	1.90		7.00	7.60	<2.0	139	210	975	1598	6.8			
21	0.55	1.89	0.99	1.30		7.00	7.70	<2.0	127	173	890	1328	6.7			
22	0.55	1.91	1.12	2.00		6.80	8.00	<2.0	132	182	896	1455	6.7	4.51		
23	0.55	1.90	1.21	2.30		6.90	7.60	<2.0	138	180	955	1366	6.7			
24	0.57	2.14	1.08	7.10		7.00	7.60	<2.0	136	158	950	1200	6.6			
25	0.56	2.00	1.03	1.50		6.80	7.60	<2.0	133	161	904	1221	6.8			
26	0.53	1.65	0.99	1.70		6.90	7.50	<2.0	126	167	872	1255	6.8			
27	0.53	1.66	0.90	1.20		7.90	8.40	<2.0	138	193	1088	1623	6.8			
28	0.60	2.01	0.85	2.40		6.70	8.30	<2.0	133	177	890	1471	6.6			
29	0.55	2.09	0.78	4.90		6.70	8.40	<2.0	111	180	747	1510	6.6			
30	0.59	1.86	0.72	8.70		7.00	8.97	70.00	129	190	905	1703	6.6			
31	0.56	1.98	0.71	1.20		6.50	7.50	<2.0	141	180	914	1350	6.7			
TOTAL	17.48															
AVG	0.56		0.91	2.58		6.71	7.84		132	173	883	1352	6.0-9.0	4.54		395
LIMIT	1.50		2.00	10.00	5.00				90		450			1.00		
MIN	0.03	1.62	0.67	0.80	0.00	5.80	7.20	2.00	111	138	701	1081	6.6	4.51		
MAX	0.71	3.55	1.21	9.90	0.00	7.90	8.97	70.00	141	210	1088	1703	6.9	4.63		

WESTWINDS GOLF COURSE  
Recycled Water Monitoring  
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MONITORING	Continuous						Daily						Weekly	Quarterly
	Recycled Flow Flow mgd	Peak mgd	24 HR ntu	Turbidity Daily Max ntu	> 5 ntu % of day	Chlorine Residual Daily Min mg/l	Daily Max mg/l	Total Coliform #/100 ml	Modal CT Value				pH	D.O mg/l
								Min minutes	Max minutes	Min CT Mg/min/L	Max CT Mg/min/L			
AUGUST														
1	0.08				0.00			<2.0					6.7	
2	0.14	1.59	0.70	0.80	0.00	6.60	7.80	<2.0	128	150	846	1170	6.9	
3	0.60	1.96	0.60	1.40	0.00	6.70	7.70	<2.0	138	190	922	1464	6.8	
4	0.62	2.38	0.63	0.90	0.00	6.30	7.90	<2.0	138	190	870	1497	6.7	
5	0.62	2.42	0.65	0.80	0.00	6.60	7.50	<2.0	139	194	918	1456	6.6	5.91
6	0.61	2.37	0.66	0.80	0.00	6.50	7.40	<2.0	132	163	857	1204	6.8	
7	0.60	2.34	0.69	0.90	0.00	6.40	7.80	<2.0	140	157	894	1223	6.7	
8	0.61	2.22	0.72	1.00	0.00	6.50	8.00	<2.0	132	159	857	1272	6.6	
9	0.59				0.00			<2.0					6.8	
10	0.57				0.00			<2.0					7.0	
11	0.64	2.42	0.66	3.20	0.00	5.70	6.70	<2.0	129	189	734	1264	6.7	
12	0.61	2.39	0.66	0.80	0.00	5.50	7.00	<2.0	134	209	738	1464	6.7	4.83
13	0.58	2.33	0.66	0.70	0.00	6.00	6.50	<2.0	133	204	801	1324	6.7	
14	0.58	2.21	0.68	0.80	0.00	6.00	7.00	<2.0	142	165	851	1156	6.8	
15	0.58	2.42	0.70	0.90	0.00	6.30	7.10	<2.0	131	160	827	1139	6.7	
16	0.54	2.05	0.69	0.90	0.00	6.50	7.10	<2.0	137	195	891	1383	6.9	
17	0.54	2.07	0.66	0.80	0.00	6.00	7.70	<2.0	140	193	842	1490	7.0	
18	0.57	2.40	0.66	0.80	0.00	6.10	7.70	<2.0	130	187	795	1440	6.7	
19	0.61	2.32	0.64	0.80	0.00	6.30	6.90	<2.0	129	195	816	1344	6.8	
20	0.55	2.18	0.68	9.90	0.00	6.20	6.90	<2.0	134	165	830	1139	6.7	
21	0.57	2.33	0.61	0.70	0.00	6.40	7.40	<2.0	129	162	828	1202	6.6	
22	0.57	2.33	0.58	0.70	0.00	6.00	7.10	<2.0	131	156	789	1107	6.7	4.75
23	0.54	2.06	0.63	9.90	0.00	6.50	7.20	<2.0	128	167	831	1203	6.8	
24	0.54	2.03	0.57	0.60	0.00	6.00	7.10	<2.0	132	196	794	1391	6.9	
25	0.58	2.25	0.61	0.80	0.00	5.70	6.50	<2.0	133	185	758	1203	6.7	
26	0.55	2.37	0.64	1.10	0.00	4.00	4.70	<2.0	135	185	539	870	6.7	5.64
27	0.60	2.32	0.70	9.90	0.00	4.80	5.10	<2.0	129	155	617	789	6.7	
28	0.58	2.43	0.71	0.90	0.00	4.20	4.80	<2.0	131	153	549	736	6.7	
29			0.88	9.90	0.00	3.70	5.40	<2.0	126	151			6.7	
30	0.59	2.42	0.77	4.10	0.00	5.00	7.00	<2.0	127	164	637	1147	6.8	
31	0.56	1.98	0.61	0.70	0.00	5.00	5.80	<2.0	131	178	653	1033	6.9	
TOTAL	16.52													
AVG	0.55		0.67	2.34		5.84	6.89		133	176	788	1226	6.0-9.0	5.28
LIMIT	1.50		2.00	10.00	5.00				90		450			1.00
MIN	0.08	1.59	0.57	0.60	0.00	3.70	4.70	0.00	126	150	539	736	6.6	4.75
MAX	0.64	2.43	0.88	9.90	0.00	6.70	8.00	0.00	142	209	922	1497	7.0	5.91

WESTWINDS GOLF COURSE  
Recycled Water Monitoring  
2008

MONITORING	Continuous					Daily					Weekly	Quarterly			
	Recycled Flow mgd	Peak mgd	24 HR ntu	Turbidity Daily Max ntu	> 5 ntu % of day	Chlorine Residual Daily Min mg/l	Daily Max mg/l	Total Coliform #/100 ml	Modal CT Value		pH	D.O mg/l	pond TDS mg/l		
SEPTMBER								Min minutes	Max minutes	Min CT Mg/min/L	Max CT Mg/min/L				
1	0.54	1.79	0.54	0.60	0.00	4.80	6.00	<2.0	130	172	624	1032	6.8		
2	0.56	2.06	0.52	0.60	0.00	4.70	5.40	<2.0	128	169	599	912	6.7		
3	0.55	1.87	0.52	0.60	0.00	4.90	5.90	<2.0	122	147	599	866	6.7		
4	0.52	2.00	0.59	0.70	0.00	4.60	5.10	<2.0	120	145	551	742	6.9	5.40	
5	0.48	1.87	0.70	0.80	0.00	5.10	6.30	<2.0	129	150	659	945	6.7		
6	0.46	1.69	0.78	0.90	0.00	4.50	5.70	<2.0	122	144	550	821	7.0		
7	0.06	1.66	0.83	0.90	0.00	4.20	5.00	<2.0	127	163	532	815	6.9		
8	0.88	1.85	0.91	1.00	0.00	3.70	6.60	<2.0	128	168	472	1109	6.7		
9	0.50	2.02	0.87	5.70	0.00	4.10	4.80	<2.0	125	154	513	739	6.8		
10	0.48	1.85	0.78	0.90	0.00	5.00	6.30	<2.0	125	159	623	1000	6.7	6.2	
11	0.49	2.01	0.76	9.90	0.00	4.40	5.50	<2.0	130	155	574	854	6.7		
12			0.72	0.80	0.00	4.60	4.80	<2.0	127	132			6.8		
13	0.49	1.89	0.83	0.90	0.00	4.40	5.20	<2.0	129	149	566	773	6.9		
14	0.46	1.62	0.84	0.90	0.00	3.90	5.10	<2.0	128	179	498	911	7.0		
15	0.50	2.18	0.77	0.80	0.00	3.80	4.80	<2.0	126	177	478	852	6.9		
16	0.49	2.03	0.79	0.80	0.00	4.60	5.80	<2.0	129	173	595	1004	6.9		
17	0.49	2.11	0.71	0.90	0.00	3.90	4.90	<2.0	127	185	493	904	6.8	5.4	
18	0.42	1.86	0.76	0.90	0.00	4.10	4.80	<2.0	125	160	511	770	6.6		
19	0.42	2.00	0.70	2.30	0.00	4.20	4.70	<2.0	122	162	513	764	6.7		
20	0.38	1.63	0.63	0.70	0.00	3.90	5.00	<2.0	126	138	491	689	7.0		
21	0.38	1.63	0.60	0.70	0.00	4.10	4.80	<2.0	127	132	520	635	6.9		
22	0.08	1.85	0.62	0.70	0.00	4.00	4.70	<2.0	127	131	509	616	6.9		
23	0.42	1.86	0.63	0.80	0.00	4.00	4.90	<2.0	127	129	508	630	6.8		
24	0.41	1.88	0.66	1.30	0.00	4.90	5.70	<2.0	127	166	624	947	6.7	5.7	
25	0.45	2.17	0.63	9.90	0.00	5.20	5.90	<2.0	129	160	668	945	6.7		
26	0.42	1.85	0.62	0.80	0.00	4.70	5.80	<2.0	129	143	607	828	6.9		
27	0.40	1.69	0.60	1.10	0.00	4.90	6.50	<2.0	121	133	595	868	6.9		
28	0.40	1.72	0.59	0.70	0.00	4.70	5.70	<2.0	125	141	589	805	6.9		
29	0.43	2.08	0.58	0.60	0.00	4.60	5.90	<2.0	125	174	575	1026	6.8		
30	0.42	1.84	0.58	0.70	0.00	4.10	4.80	<2.0	125	187	513	899	6.8		
TOTAL	12.98														
AVG	0.45		0.69	1.63		4.42	5.41		126	156	557	852	6.0-9.0	5.68	#DIV/0!
LIMIT	1.50		2.00	10.00	5.00			0.00	90		450			1.00	
MIN	0.06	1.62	0.52	0.60	0.00	3.70	4.70	0.00	120	129	472	616	6.6	5.40	
MAX	0.88	2.18	0.91	9.90	0.00	5.20	6.60	0.00	130	187	668	1109	7.0	6.20	

WESTWINDS GOLF COURSE  
Recycled Water Monitoring  
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MONITORING	Continuous					Daily								Weekly	Quarterly
	Recycled Flow mgd	Peak mgd	24 HR ntu	Turbidity Daily Max ntu	> 5 ntu % of day	Chlorine Residual Daily Min mg/l	Daily Max mg/l	Total Coliform #/100 ml	Modal CT Value				pH	D.O mg/l	pond TDS mg/l
								Min minutes	Max minutes	Min CT Mg/min/L	Max CT Mg/min/L				
OCTOBER															
1			0.57	0.60	0.00	3.80	4.90	<2.0	124	141			6.71	6.92	
2	0.40	1.86	0.56	0.70	0.00	4.50	5.40	<2.0	126	135	569	731	6.82		
3			0.51	0.80	0.00	4.10	4.80	<2.0	125	142			6.82		339.00
4			0.57	9.90	0.00	4.50	6.50	<2.0	120	147			6.92		
5	0.39	2.12	0.55	0.70	0.00	3.70	4.60	<2.0	125	135	462	620	6.99		
6			0.60	0.60	0.00	4.70	6.80	<2.0	126	141			6.81		
7	0.41	2.20	0.69	0.80	0.00	4.50	6.80	<2.0	149	132	669	896	6.89		
8	0.48	2.21	0.67	0.80	0.00	3.80	4.60	<2.0	129	189	490	870	6.85	6.3	
9	0.46	1.94	0.65	0.90	0.00	4.60	5.50	<2.0	123	145	568	796	6.83		
10	0.48	2.08	0.59	0.60	0.00	3.70	4.80	<2.0	128	157	472	755	6.78		
11			0.61	0.70	0.00	4.00	6.00	<2.0	121	155			6.9		
12	0.41	1.76	0.62	0.70	0.00	4.60	5.70	<2.0	127	184	582	1048	6.96		
13	0.32	2.07	0.67	0.80	0.00	4.20	4.70	<2.0	124	134	521	628	6.73		
14	0.10		0.70	0.80	0.00	5.10	5.90	<2.0	110	140	562	827	6.72		
15	0.45	2.19	0.71	0.80	0.00	3.90	4.90	<2.0	129	185	502	906	6.73	6.38	
16	0.40	1.62	0.83	1.20	0.00	4.50	5.00	<2.0	117	138	526	691	6.73		
17			0.83	9.90	0.00	3.70	5.50	<2.0	131	154			6.76		
18			0.72	0.90	0.00	4.60	6.10	<2.0	127	151			6.88		
19	0.46	2.32	0.69	5.10	0.00	5.10	6.30	<2.0	129	163	656	1030	6.97		
20	0.41	1.76	0.70	1.00	0.00	5.00	5.70	<2.0	126	131	628	747	6.71		
21	0.39	1.78	0.67	0.80	0.00	4.80	6.60	<2.0	128	152	614	1005	6.69		
22	0.40	1.83	0.69	0.80	0.00	3.90	4.70	<2.0	133	149	520	701	6.72	6.62	
23	0.39	1.78	0.68	0.90	0.00	4.90	6.70	<2.0	129	161	634	1081	6.62		
24			0.77	9.90	0.00	4.30	6.00	<2.0	126	145			6.66		
25			0.74	9.90	0.00	4.40	5.10	<2.0	128	151			6.83		
26	0.39	1.97	0.68	0.90	0.00	4.60	6.40	<2.0	129	142	595	911	6.76		
27	0.38	1.97	0.60	0.90	0.00	4.30	4.80	<2.0	129	139	553	667	6.6		
28			0.64	0.70	0.00	5.00	6.30	<2.0	127	132			6.62		
29	0.01	0.53	0.62	1.10	0.00	4.10	5.00	<2.0	133	147	544	737	6.68	6.16	
30	0.44	2.33	0.59	0.80	0.00	4.80	6.50	<2.0	125	144	600	935	6.69		
31			0.55	0.70	0.00	5.00	5.10	<2.0	131	149			6.67		
TOTAL	7.55														
AVG	0.38		0.65	2.12		4.41	5.60		127	149	563	829	6.0-9.0	6.48	339
LIMIT	1.50		2.00	10.00	5.00				90		450			1.00	
MIN	0.01	0.53	0.51	0.60	0.00	3.70	4.60	0.00	110	131	462	620	6.6	6.16	
MAX	0.48	2.33	0.83	9.90	0.00	5.10	6.80	0.00	149	189	669	1081	7.0	6.92	



WESTWINDS GOLF COURSE  
Recycled Water Monitoring  
2008

MONITORING	Continuous						Daily						Weekly	Quarterly	
	Recycled Flow mgd	Peak mgd	24 HR ntu	Turbidity Daily Max ntu	> 5 ntu % of day	Chlorine Residual Daily Min mg/l	Daily Max mg/l	Total Coliform #/100 ml	Min minutes	Max minutes	Min CT Mg/min/L	Max CT Mg/min/L	pH	D.O mg/l	pond TDS mg/l
NOVEMBER															
1			0.57	1.00	0.00	5.40	6.00	2.00	120	145			6.7		
2	0.05	2.53	0.65	0.80	0.00	5.10	5.60	<2.0	111	140	566	783	6.9		
3	0.33	1.81	0.66	0.80	0.00	5.20	5.90	<2.0	127	138	662	816	6.7		
4	0.40	2.39	0.70	0.90	0.00	5.40	5.60	<2.0	119	140	644	785	6.8		
5			0.00	0.00	0.00	0.00	5.40	<2.0					6.8	6.45	
6	0.39	2.06	0.65	0.81	0.00	4.21	4.80	<2.0	121	141	511	679	6.9		
7			0.00	0.00	0.00	0.00	5.40	<2.0					6.7		
8			0.00	0.00	0.00	0.00	5.40	<2.0					6.8		
9	0.39	2.33	0.56	0.69	0.00	4.59	5.11	<2.0	122	131	562	667	7.0		
10			0.00	0.00	0.00	0.00	5.40	<2.0					6.9		
11			0.00	0.00	0.00	0.00	5.40	<2.0					6.9	7.1	
12	0.39	2.36	0.56	0.69	0.00	4.29	4.84	<2.0	120	128	513	619	6.9		
13			0.00	0.00	0.00	0.00	5.40	<2.0					7.0		
14			0.00	0.00	0.00	0.00	5.40	<2.0					6.8		
15			0.00	0.00	0.00	0.00	5.40	<2.0					6.8		
16	0.41	2.45	0.67	0.92	0.00	4.29	4.90	<2.0	118	153	508	750	7.0		
17			0.00	0.00	0.00	0.00	5.40	<2.0					6.9		
18			0.00	0.00	0.00	0.00	5.40	<2.0					6.7		
19	0.41	2.51	0.87	1.14	0.00	4.27	5.40	<2.0	162	203	694	1094	6.6		
20			0.00	0.00	0.00	0.00	5.40	<2.0					6.6	7.00	
21			0.00	0.00	0.00	0.00	5.40	<2.0					6.5		
22			0.76	1.10	0.00	4.50	4.80	<2.0	127	139			6.9		
23	0.38	2.13	0.77	0.80	0.00	4.80	5.70	<2.0	123	130	590	741	6.9		
24	0.36	2.07	0.79	1.00	0.00	4.70	4.90	<2.0	124	132	581	649	6.5		
25	0.37	2.19	0.84	1.00	0.00	4.60	5.50	<2.0	117	125	540	686	6.5	6.17	
26			0.78	1.10	0.00	3.90	4.30	2.00	121	141			6.5		
27			0.72	0.90	0.00	4.20	4.90	<2.0	112	139			6.7		
28			0.72	0.90	0.00	4.20	4.90	<2.0	112	139			6.5		
29			0.83	1.00	0.00	3.90	4.70	<2.0	127	136			6.5		
30			0.79	0.80	0.00	4.00	5.70	<2.0	130	139			6.6		
TOTAL	3.88														
AVG	0.35		0.43	0.55		2.72	5.28		123	141	579	752	6.0-9.0	6.68	#DIV/0!
LIMIT	1.50		2.00	10.00	5.00				90		450			1.00	
MIN	0.05	1.81	0.00	0.00	0.00	0.00	4.30	2.00	111	125	508	619	6.5	6.17	
MAX	0.41	2.53	0.87	1.14	0.00	5.40	6.00	2.00	162	203	694	1094	7.0	7.10	

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Recycled Water Monitoring  
2008

MONITORING	Continuous						Daily						Weekly	Quarterly	
	Recycled Flow Flow mgd	Peak mgd	24 HR ntu	Turbidity Daily Max ntu	> 5 ntu % of day	Chlorine Residual Daily Min mg/l	Daily Max mg/l	Total Coliform #/100 ml	Modal CT Value				pH	D.O mg/l	pond TDS mg/l
DECEMBER								Min minutes	Max minutes	Min CT Mg/min/L	Max CT Mg/min/L				
1			0.75	1.00	0.00	3.70	4.60	<2.0	132	137			6.5		
2			0.77	9.90	0.00	3.80	4.40	<2.0	128	144			6.9		
3	0.37	2.46	0.90	1.40	0.00	3.40	4.70	<2.0	132	154	449	724	6.6	6.38	
4			0.89	1.30	0.00	3.90	4.60	<2.0	129	155			6.5		
5			0.88	9.90	0.00	4.20	5.20	<2.0	130	162			6.5		
6			0.88	1.20	0.00	4.50	5.00	<2.0	128	157			6.6		
7	0.36	2.27	0.83	1.30	0.00	4.10	4.40	<2.0	124	135	510	592	6.8		
8			0.81	1.00	0.00	4.10	5.60	<2.0	116	143			6.7		
9			0.80	1.00	0.00	4.70	5.90	<2.0	124	155			6.9		
10	0.39	2.58	0.79	1.50	0.00	3.60	4.60	<2.0	127	146	458	674	6.6		
11			0.72	0.80	0.00	3.60	4.40	<2.0	128	149			6.6	4.95	
12			0.80	9.90	0.00	5.50	5.70	<2.0	126	148			6.6		
13			0.79	0.90	0.00	3.90	4.50	<2.0	120	145			6.8		
14	0.36	2.35	0.83	0.90	0.00	2.35	5.50	<2.0	121	132	285	725	6.7		
15			0.85	1.00	0.00	4.40	4.70	<2.0	112	145			6.7		
16			0.87	1.00	0.00	4.60	6.10	<2.0	124	137			6.6		
17			0.82	1.00	0.00	4.50	4.90	<2.0	69	122			6.6		
18			0.77	0.90	0.00	4.00	4.70	<2.0	69	79			6.6		
19			0.76	1.00	0.00	4.40	5.60	<2.0	118	137			6.6		
20			0.80	9.90	0.00	5.10	6.10	<2.0	121	138			6.6		
21			0.91	1.00	0.00	4.70	5.80	<2.0	121	131			6.5		
22			0.99	1.10	0.00	4.60	5.50	<2.0	118	132			6.6		
23			0.96	1.10	0.00	4.20	5.00	<2.0	119	131			6.7		
24			0.98	1.10	0.00	3.40	3.90	<2.0	118	126			6.7		
25			0.93	9.90	0.00	4.30	5.30	<2.0	123	143			6.7		
26			1.01	1.40	0.00	4.20	5.90	<2.0	122	139			6.8		
27			1.09	1.20	0.00	4.10	5.70	<2.0	120	137			6.7		
28			1.09	1.20	0.00	3.50	4.50	<2.0	122	132			6.8		
29			1.12	1.20	0.00	3.90	4.50	<2.0	122	144			7.2		
30			1.09	1.30	0.00	3.80	4.60	<2.0	123	139			6.6		
31			1.11	9.90	0.00	3.60	4.00	<2.0	118	143			6.8		
TOTAL	1.48														
AVG	0.37		0.89	2.81		4.09	5.03		119	139	426	679	6.0-9.0	5.67	#DIV/0!
LIMIT	1.50		2.00	10.00	5.00				90		450			1.00	
MIN	0.36	2.27	0.72	0.80	0.00	2.35	3.90	0	69	79	285	592	6.5	4.95	
MAX	0.39	2.58	1.12	9.90	0.00	5.50	6.10	0	132	162	510	725	7.2	6.38	

WESTWINDS GOLF COURSE  
Groundwater Monitoring Schedule  
2008

Parameter	Units	Type of Sample	Frequency	2008 Sample Month(s)
Total Dissolved Solids	mg/L	Grab	Semiannually	January/July
Alkalinity (Alk)	mg/L	Grab	Annually	July
Hardness (Hrdns)	mg/L	Grab	Annually	July
Methylene blue active substances (MBAS)	mg/L	Grab	Annually	July
Calcium (Ca)	mg/L	Grab	Annually	July
Potassium (K)	mg/L	Grab	Annually	July
Magnesium (Mg)	mg/L as N	Grab	Annually	July
Copper (Cu)	mg/L as N	Grab	Annually	July
Iron (Fe)	mg/L as N	Grab	Annually	July
Manganese (Mn)	mg/L	Grab	Annually	July
Zinc (Zn)	mg/L	Grab	Annually	July
Chloride (Cl)	mg/L	Grab	Annually	July
Sulfate (SO4)	mg/L	Grab	Annually	July
Nitrate (NO3)	mg/L	Grab	Annually	July
Total Organic Carbon	mg/L	Grab	Annually	July

WESTWINDS GOLF COURSE  
Groundwater Monitoring Semi-Annual / Annual  
2008

<i>Semi-Annually</i>				
Well	Total Dissolved Solids (mg/L)		MBAS (mg/L)	
	January	July	January	July
NZ-91	326	568	<.05	<.05
NZ-119	285	672	<.05	<.05
NZ-123	614	666	<.2	<.05

<i>Annually</i> <i>July 2, 2008</i>													
Well	Alkalinity (mg/L)	Hardness (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Magnesium (mg/L)	Copper (mg/L)	Iron (mg/L)	Manganese (mg/L)	Zinc (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate (mg/L)	Total Organic Carbon (mg/L)
NZ-91	160.00	150.00	41.00	2.80	10.00	ND	4.70	0.16	0.04	17.00	59.00	3.90	1.20
NZ-119	67.00	110.00	30.00	3.30	9.50	0.01	6.00	0.15	0.04	9.50	140.00	1.10	1.80
NZ-123	140.00	300.00	78.00	5.80	26.00	0.02	20.00	0.59	0.06	99.00	140.00	5.60	1.50

WESTWINDS GOLF COURSE  
Groundwater Monitoring  
Annual  
2008

Well NZ 91

July, 2008

Sample Date:	7/2/2008		
Parameter	Units	Result	EPA Method
<u>Total Cyanides</u>	(mg/L)	ND	SM 4500CN E
<u>Total Phenols</u>	(mg/L)	ND	EPA 420.4
<u>Purgable Organics</u>			
Volatile Organic Compounds	(mg/L)	ND	EPA 624
All results Non-Detectable			
<u>Base Neutral Extractable Organics</u>			
Semivolatile Organic Cmpds	(mg/L)	ND	EPA 625
All results Non-Detectable			
<u>Acid Extractable Organics</u>			
Phenol , single compound	(mg/L)	ND	EPA 625
<u>Heavy Metals</u>			
Metals and Metalloids	(mg/L)	ND	EPA 200.8
All results Non-Detectable with the exception of:			
Barium	(mg/L)	0.110	
Boron	(mg/L)	0.11	
Iron	(mg/L)	4.700	
Manganese	(mg/L)	0.160	
Vanadium	(mg/L)	0.029	
Zinc	(mg/L)	0.037	

Well NZ 119

July, 2008

Sample Date:	7/2/2008		
Parameter	Units	Result	EPA Method
<u>Total Cyanides</u>	(mg/L)	ND	SM 4500CN E
<u>Total Phenols</u>	(mg/L)	ND	EPA 420.4
<u>Purgable Organics</u>			
Volatile Organic Compounds	(mg/L)	ND	EPA 624
All results Non-Detectable			
<u>Base Neutral Extractable Organics</u>			
Semivolatile Organic Cmpds	(mg/L)	ND	EPA 625
All results Non-Detectable			
<u>Acid Extractable Organics</u>			
Phenol , single compound	(mg/L)	ND	EPA 625
<u>Heavy Metals</u>			
Metals and Metalloids	(mg/L)	ND	EPA 200.8
All results Non-Detectable with the exception of:			
Arsenic	(mg/L)	0.005	
Barium	(mg/L)	0.060	
Copper	(mg/L)	0.010	
Iron	(mg/L)	6.000	
Manganese	(mg/L)	0.150	
Vanadium	(mg/L)	0.035	
Zinc	(mg/L)	0.037	

Well NZ 123

July, 2008

Sample Date:	7/2/2008		
Parameter	Units	Result	EPA Method
<u>Total Cyanides</u>	(mg/L)	ND	SM 4500CN E
<u>Total Phenols</u>	(mg/L)	ND	EPA 420.4
<u>Purgable Organics</u>			
Volatile Organic Compounds	(mg/L)	ND	EPA 624
All results Non-Detectable			
<u>Base Neutral Extractable Organics</u>			
Semivolatile Organic Cmpds	(mg/L)	ND	EPA 625
All results Non-Detectable			
<u>Acid Extractable Organics</u>			
Phenol , single compound	(mg/L)	ND	EPA 625
<u>Heavy Metals</u>			
Metals and Metalloids	(mg/L)	ND	EPA 200.8
All results Non-Detectable with the exception of:			
Barium	(mg/L)	0.180	
Boron	(mg/L)	0.12	
Total Chromium	(mg/L)	0.021	
Copper	(mg/L)	0.023	
Iron	(mg/L)	20.000	
Manganese	(mg/L)	59.000	
Vanadium	(mg/L)	0.058	
Zinc	(mg/L)	0.062	



WESTWINDS GOLF COURSE  
Recycled Water Use Area Monitoring Report  
2007

Date	July		August		September		October		November		December	
	Pond Level ft msl	Pond Freeboard	Pond Level ft msl	Pond Freeboard	Pond Level ft msl	Pond Freeboard	Pond Level ft msl	Pond Freeboard	Pond Level ft msl	Pond Freeboard	Pond Level ft msl	Pond Freeboard
1	2874.82	2.80	2875.96	2.60	2875.01	2.60	2874.80	2.80	2875.04	2.60	2875.01	2.60
2	2875.02	2.60	2874.96	2.60	2875.07	2.50	2875.05	2.60	2875.02	2.60	2874.99	2.60
3	2875.03	2.60	2875.06	2.50	2875.05	2.60	2875.00	2.60	2875.06	2.50	2875.03	2.60
4	2875.06	2.50	2875.06	2.50	2875.05	2.60	2874.97	2.60	2875.05	2.60	2875.02	2.60
5	2875.05	2.60	2875.06	2.50	2875.06	2.50	2875.05	2.60	2875.05	2.60	2874.99	2.60
6	2875.06	2.50	2874.99	2.60	2875.05	2.60	2875.01	2.60	2875.05	2.60	2874.98	2.60
7	2875.04	2.60	2874.98	2.60	2875.05	2.60	2875.06	2.50	2875.05	2.60	2875.01	2.60
8	2875.06	2.50	2875.04	2.60	2875.00	2.60	2875.07	2.50	2875.05	2.60	2875.00	2.60
9	2875.06	2.50	2875.00	2.60	2875.05	2.60	2875.06	2.50	2875.05	2.60	2875.00	2.60
10	2875.05	2.60	2875.00	2.60	2875.04	2.60	2875.04	2.60	2875.05	2.60	2875.04	2.60
11	2875.05	2.60	2875.05	2.60	2875.04	2.60	2874.98	2.60	2875.05	2.60	2875.02	2.60
12	2875.07	2.50	2875.04	2.60	2874.97	2.60	2875.08	2.50	2875.05	2.60	2875.01	2.60
13	2875.06	2.50	2874.99	2.60	2875.01	2.60	2875.05	2.60	2875.05	2.60	2874.98	2.60
14	2875.03	2.60	2875.01	2.60	2875.05	2.60	2875.04	2.60	2875.05	2.60	2875.03	2.60
15	2874.91	2.70	2875.01	2.60	2875.07	2.50	2875.06	2.50	2875.10	2.60	2875.04	2.60
16	2875.06	2.50	2875.05	2.60	2875.03	2.60	2875.06	2.50	2875.10	2.60	2875.02	2.60
17	2875.06	2.50	2875.00	2.60	2875.07	2.50	2875.08	2.50	2875.10	2.60	2875.13	2.50
18	2875.03	2.60	2874.90	2.70	2875.05	2.60	2874.99	2.60	2875.10	2.60	2875.13	2.50
19	2875.06	2.50	2875.04	2.60	2875.04	2.60	2875.06	2.50	2875.10	2.60	2875.13	2.50
20	2875.05	2.60	2875.03	2.60	2875.07	2.50	2875.06	2.50	2875.10	2.60	2875.12	2.50
21	2875.06	2.50	2875.05	2.60	2875.07	2.50	2875.04	2.60	2875.10	2.60	2875.12	2.50
22	2875.04	2.60	2875.04	2.60	2875.04	2.60	2875.04	2.60	2874.97	2.60	2875.13	2.50
23	2875.05	2.60	2875.05	2.60	2875.04	2.60	2875.06	2.50	2875.04	2.60	2875.11	2.50
24	2875.05	2.60	2875.07	2.50	2875.04	2.60	2874.98	2.60	2875.05	2.60	2875.13	2.50
25	2875.08	2.50	2875.03	2.60	2875.06	2.50	2875.00	2.60	2875.10	2.50	2875.10	2.50
26	2875.04	2.60	2874.84	2.80	2875.05	2.60	2875.05	2.60	2875.08	2.50	2875.09	2.50
27	2875.10	2.50	2875.03	2.60	2875.06	2.50	2875.05	2.60	2875.07	2.50	2875.08	2.50
28	2875.04	2.60	2875.01	2.60	2875.06	2.50	2875.02	2.60	2875.07	2.50	2875.08	2.50
29	2874.90	2.70	2874.99	2.60	2875.04	2.60	2875.00	2.60	2875.04	2.60	2875.02	2.60
30	2875.06	2.50	2874.99	2.60	2874.88	2.70	2875.01	2.50	2875.01	2.60	2875.01	2.60
31	2875.05	2.60	2875.03	2.60			2875.04	2.60			2875.01	2.60
MAX	2,875.1	2.8	2,876.0	2.8	2,875.1	2.7	2,875.1	2.8	2,875.1	2.6	2,875.1	2.6
AVG	2,875.0	2.6	2,875.0	2.6	2,875.0	2.6	2,875.0	2.6	2,875.1	2.6	2,875.1	2.6



**E.S.BABCOCK&Sons,Inc.**

Environmental Laboratories *est 1906*

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

Analytical Report: Page 3 of 23  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 18-Jul-2008

**Work Order Number: A8G0292**

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number

**A8G0292-01**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1620 NZ-91	Liquid	07/01/08 11:30	07/02/08 14:30

<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>Nutrients</b>							
Nitrite as N	ND	0.10	mg/L	SM 4500NO2 B	07/02/08 21:11	jc	
Ammonia-Nitrogen	ND	0.10	mg/L	SM4500NH3H	07/07/08 12:16	sil	
Kjeldahl Nitrogen	ND	0.10	mg/L	EPA 351.2	07/09/08 09:34	sil	
<b>Metals and Metalloids</b>							
Antimony	ND	10	ug/L	EPA 200.8	07/09/08 13:12	ap	
Arsenic	ND	5.0	ug/L	EPA 200.8	07/09/08 13:12	ap	
Barium	110	20	ug/L	EPA 200.8	07/09/08 13:12	ap	
Beryllium	ND	10	ug/L	EPA 200.8	07/09/08 13:12	ap	
Boron	110	100	ug/L	EPA 200.7	07/08/08 21:10	lmt	
Cadmium	ND	2.0	ug/L	EPA 200.8	07/09/08 13:12	ap	
Total Chromium	ND	20	ug/L	EPA 200.8	07/09/08 13:12	ap	
Cobalt	ND	10	ug/L	EPA 200.8	07/09/08 13:12	ap	
Copper	ND	10	ug/L	EPA 200.8	07/09/08 13:12	ap	
Iron	4700	50	ug/L	EPA 200.7	07/08/08 21:10	lmt	
Lead	ND	10	ug/L	EPA 200.8	07/09/08 13:12	ap	
Manganese	160	10	ug/L	EPA 200.8	07/09/08 13:12	ap	
Mercury	ND	0.50	ug/L	EPA 200.8	07/09/08 13:12	ap	
Molybdenum	ND	10	ug/L	EPA 200.8	07/09/08 13:12	ap	
Nickel	ND	20	ug/L	EPA 200.8	07/09/08 13:12	ap	
Selenium	ND	5.0	ug/L	EPA 200.8	07/09/08 13:12	ap	
Silver	ND	10	ug/L	EPA 200.8	07/09/08 13:12	ap	
Thallium	ND	200	ug/L	EPA 200.8	07/09/08 13:12	ap	
Vanadium	29	10	ug/L	EPA 200.8	07/09/08 13:12	ap	
Zinc	37	10	ug/L	EPA 200.8	07/09/08 13:12	ap	

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NELAP no. 02101CA  
CA ELAP no. 1156  
EPA no. CA00102





**E.S.BABCOCK & Sons, Inc.**

Environmental Laboratories *est. 1906*

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

Analytical Report: Page 2 of 23  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 18-Jul-2008

**Work Order Number: A8G0292**

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number

**A8G0292-01**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1620 NZ-91	Liquid	07/01/08 11:30	07/02/08 14:30

<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>Cations</b>							
Total Hardness	150	3.0	mg/L	SM 3120B	07/08/08 21:09	lmt	
Calcium	41	1.0	mg/L	EPA 200.7	07/08/08 21:09	lmt	
Magnesium	10	1.0	mg/L	EPA 200.7	07/08/08 21:09	lmt	
Sodium	54	1.0	mg/L	EPA 200.7	07/08/08 21:09	lmt	
Potassium	2.8	1.0	mg/L	EPA 200.7	07/08/08 21:09	lmt	
<b>Anions</b>							
Total Alkalinity	160	3.0	mg/L	SM 2320B	07/11/08 17:20	mds	
Hydroxide	ND	3.0	mg/L	SM 2320B	07/11/08 17:20	mds	
Carbonate	ND	3.0	mg/L	SM 2320B	07/11/08 17:20	mds	
Bicarbonate	190	3.0	mg/L	SM 2320B	07/11/08 17:20	mds	
Chloride	17	1.0	mg/L	EPA 300.0	07/03/08 06:16	JC	
Sulfate	59	0.50	mg/L	EPA 300.0	07/03/08 06:16	JC	
Nitrate as N	3.9	0.20	mg/L	EPA 300.0	07/03/08 06:16	JC	
<b>Aggregate Organic Compounds</b>							
Total Organic Carbon	1.2	0.70	mg/L	SM 5310B	07/14/08 10:07	krv	
Total Petroleum Hydrocarbons	ND	1.0	mg/L	EPA 418.1	07/10/08 13:04	tdm	
Phenols	ND	0.020	mg/L	EPA 420.4	07/15/08 11:30	ms	
<b>Surfactants</b>							
MBAS	ND	0.05	mg/L	SM 5540C	07/03/08 10:17	ctl	
<b>General Inorganics</b>							
Cyanide	ND	0.005	mg/L	SM 4500CN E	07/10/08 09:37	slf	N_pSci

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NELAP no. 02101CA  
CA ELAP no. 1156  
EPA no. CA00102



E.S.BABCOCK & Sons, Inc.

Environmental Laboratories est 1906

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

Analytical Report: Page 6 of 23
Project Name: VVWRA-Lab
Project Number: [none]

Report Date: 18-Jul-2008

Work Order Number: A8G0292

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number

A8G0292-01

Sample Description: 1620 NZ-91
Matrix: Liquid
Sampled Date/Time: 07/01/08 11:30
Received Date/Time: 07/02/08 14:30

Table with columns: Analyte(s), Result, RDL, Units, Method, Analysis Date, Analyst, Flag. Contains a list of Semivolatile Organic Compounds by EPA 625 with their respective results and RDL values.

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NELAP no. 02101CA
CA ELAP no. 1156
EPA no. CA00102



**E.S.BABCOCK & Sons, Inc.**

Environmental Laboratories *est. 1906*

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Analytical Report: Page 7 of 23  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 18-Jul-2008

**Work Order Number: A8G0292**

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number

**A8G0292-01**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1620 NZ-91	Liquid	07/01/08 11:30	07/02/08 14:30

<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>
Semivolatile Organic Compounds by EPA 625							
Benzo(b)fluoranthene	ND	10	ug/L	EPA 625	07/10/08 06:44	DF	
Benzo(ghi)perylene	ND	10	ug/L	EPA 625	07/10/08 06:44	DF	
Benzo(k)fluoranthene	ND	10	ug/L	EPA 625	07/10/08 06:44	DF	
Bis(2-chloroethoxy)methane	ND	10	ug/L	EPA 625	07/10/08 06:44	DF	
Bis(2-Chloroethyl)ether	ND	10	ug/L	EPA 625	07/10/08 06:44	DF	
Bis(2-chloroisopropyl)Ether	ND	10	ug/L	EPA 625	07/10/08 06:44	DF	
Bis(2-ethylhexyl)phthalate	ND	3.0	ug/L	EPA 625	07/10/08 06:44	DF	
Butyl benzyl phthalate	ND	10	ug/L	EPA 625	07/10/08 06:44	DF	
Chlordane (screen)	ND	10	ug/L	EPA 625	07/10/08 06:44	DF	
Chrysene	ND	10	ug/L	EPA 625	07/10/08 06:44	DF	
d-BHC	ND	10	ug/L	EPA 625	07/10/08 06:44	DF	
Di-n-butylphthalate	ND	10	ug/L	EPA 625	07/10/08 06:44	DF	
Di-n-octylphthalate	ND	10	ug/L	EPA 625	07/10/08 06:44	DF	
Dibenzo(a,h)anthracene	ND	10	ug/L	EPA 625	07/10/08 06:44	DF	
Dieldrin	ND	10	ug/L	EPA 625	07/10/08 06:44	DF	
Diethyl phthalate	ND	10	ug/L	EPA 625	07/10/08 06:44	DF	
Dimethyl phthalate	ND	10	ug/L	EPA 625	07/10/08 06:44	DF	
Endosulfan I	ND	10	ug/L	EPA 625	07/10/08 06:44	DF	
Endosulfan II	ND	10	ug/L	EPA 625	07/10/08 06:44	DF	
Endosulfan Sulfate	ND	10	ug/L	EPA 625	07/10/08 06:44	DF	
Endrin	ND	10	ug/L	EPA 625	07/10/08 06:44	DF	
Fluoranthene	ND	10	ug/L	EPA 625	07/10/08 06:44	DF	
Fluorene	ND	10	ug/L	EPA 625	07/10/08 06:44	DF	
Heptachlor	ND	10	ug/L	EPA 625	07/10/08 06:44	DF	
Heptachlor Epoxide	ND	10	ug/L	EPA 625	07/10/08 06:44	DF	
Hexachlorobenzene	ND	10	ug/L	EPA 625	07/10/08 06:44	DF	
Hexachlorobutadiene	ND	10	ug/L	EPA 625	07/10/08 06:44	DF	
Hexachlorocyclopentadiene	ND	50	ug/L	EPA 625	07/10/08 06:44	DF	
Hexachloroethane	ND	10	ug/L	EPA 625	07/10/08 06:44	DF	
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	EPA 625	07/10/08 06:44	DF	

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EPA no. CA00102



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Client Name: Victor Valley Reclamation Authority
Contact: Gina Cloutier
Address: 15776 Main St. Suite 3
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Analytical Report: Page 5 of 23
Project Name: VVWRA-Lab
Project Number: [none]

Report Date: 18-Jul-2008

Work Order Number: A8G0292

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number

A8G0292-01

Sample Description: 1620 NZ-91
Matrix: Liquid
Sampled Date/Time: 07/01/08 11:30
Received Date/Time: 07/02/08 14:30

Table with columns: Analyte(s), Result, RDL, Units, Method, Analysis Date, Analyst, Flag. Contains data for Volatile Organic Compounds by EPA 624 and Semivolatile Organic Compounds by EPA 625.

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Analytical Report: Page 4 of 23
Project Name: VVWRA-Lab
Project Number: [none]

Report Date: 18-Jul-2008

Work Order Number: A8G0292

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number

A8G0292-01

Sample Description Matrix Sampled Date/Time Received Date/Time
1620 NZ-91 Liquid 07/01/08 11:30 07/02/08 14:30

Table with columns: Analyte(s), Result, RDL, Units, Method, Analysis Date, Analyst, Flag. Contains data for Volatile Organic Compounds by EPA 524.2 and EPA 624.

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Analytical Report: Page 8 of 23
Project Name: VVWRA-Lab
Project Number: [none]

Report Date: 18-Jul-2008

Work Order Number: A8G0292

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number

A8G0292-01

Sample Description 1620 NZ-91 Matrix Liquid Sampled Date/Time 07/01/08 11:30 Received Date/Time 07/02/08 14:30

Table with 7 columns: Analyte(s), Result, RDL, Units, Method, Analysis Date, Analyst, Flag. Rows include Semivolatile Organic Compounds by EPA 625, Isophorone, n-Nitrosodi-n-propylamine, N-Nitrosodimethylamine, N-Nitrosodiphenylamine, Naphthalene, Nitrobenzene, Pentachlorophenol, Phenanthrene, Phenol, Pyrene, Toxaphene (screen), y-BHC, and various Surrogate compounds.

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Analytical Report: Page 9 of 23  
 Project Name: VVWRA-Lab  
 Project Number: [none]

Report Date: 18-Jul-2008

**Work Order Number: A8G0292**

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number

**A8G0292-02**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1621 NZ-119	Liquid	07/01/08 12:10	07/02/08 14:30

<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>Cations</b>							
Total Hardness	110	3.0	mg/L	SM 3120B	07/08/08 21:16	lmt	
Calcium	30	1.0	mg/L	EPA 200.7	07/08/08 21:16	lmt	
Magnesium	9.5	1.0	mg/L	EPA 200.7	07/08/08 21:16	lmt	
Sodium	66	1.0	mg/L	EPA 200.7	07/08/08 21:16	lmt	
Potassium	3.3	1.0	mg/L	EPA 200.7	07/08/08 21:16	lmt	
<b>Anions</b>							
Total Alkalinity	67	3.0	mg/L	SM 2320B	07/11/08 17:20	mds	
Hydroxide	ND	3.0	mg/L	SM 2320B	07/11/08 17:20	mds	
Carbonate	ND	3.0	mg/L	SM 2320B	07/11/08 17:20	mds	
Bicarbonate	82	3.0	mg/L	SM 2320B	07/11/08 17:20	mds	
Chloride	9.5	1.0	mg/L	EPA 300.0	07/03/08 06:26	JC	
Sulfate	140	0.50	mg/L	EPA 300.0	07/03/08 06:26	JC	
Nitrate as N	1.1	0.20	mg/L	EPA 300.0	07/03/08 06:26	JC	
<b>Aggregate Organic Compounds</b>							
Total Organic Carbon	1.8	0.70	mg/L	SM 5310B	07/14/08 10:07	krv	
Total Petroleum Hydrocarbons	ND	1.0	mg/L	EPA 418.1	07/10/08 13:04	tdm	
Phenols	ND	0.020	mg/L	EPA 420.4	07/15/08 11:31	ms	
<b>Surfactants</b>							
MBAS	ND	0.05	mg/L	SM 5540C	07/03/08 10:17	ctl	
<b>General Inorganics</b>							
Cyanide	ND	0.005	mg/L	SM 4500CN E	07/10/08 09:39	slI	N_pScr

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Analytical Report: Page 10 of 23  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 18-Jul-2008

**Work Order Number: A8G0292**

Received on Ice (Y/N): Yes      Temp: 5 °C

Laboratory Reference Number

**A8G0292-02**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1621 NZ-119	Liquid	07/01/08 12:10	07/02/08 14:30

<b>Analyte(s)</b>	<b>Result</b>	<b>RDL</b>	<b>Units</b>	<b>Method</b>	<b>Analysis Date</b>	<b>Analyst</b>	<b>Flag</b>
<b>Nutrients</b>							
Nitrite as N	ND	0.10	mg/L	SM 4500NO2 B	07/02/08 21:11	jc	
Ammonia-Nitrogen	ND	0.10	mg/L	SM4500NH3H	07/07/08 12:18	sll	
Kjeldahl Nitrogen	0.91	0.10	mg/L	EPA 351.2	07/09/08 09:37	sll	
<b>Metals and Metalloids</b>							
Antimony	ND	10	ug/L	EPA 200.8	07/09/08 13:30	ap	
Arsenic	5.0	5.0	ug/L	EPA 200.8	07/09/08 13:30	ap	
Barium	60	20	ug/L	EPA 200.8	07/09/08 13:30	ap	
Beryllium	ND	10	ug/L	EPA 200.8	07/09/08 13:30	ap	
Boron	ND	100	ug/L	EPA 200.7	07/08/08 21:16	lmt	
Cadmium	ND	2.0	ug/L	EPA 200.8	07/09/08 13:30	ap	
Total Chromium	ND	20	ug/L	EPA 200.8	07/09/08 13:30	ap	
Cobalt	ND	10	ug/L	EPA 200.8	07/09/08 13:30	ap	
Copper	10	10	ug/L	EPA 200.8	07/09/08 13:30	ap	
Iron	6000	500	ug/L	EPA 200.7	07/09/08 17:18	lmt	
Lead	ND	10	ug/L	EPA 200.8	07/09/08 13:30	ap	
Manganese	150	10	ug/L	EPA 200.8	07/09/08 13:30	ap	
Mercury	ND	0.50	ug/L	EPA 200.8	07/09/08 13:30	ap	
Molybdenum	ND	10	ug/L	EPA 200.8	07/09/08 13:30	ap	
Nickel	ND	20	ug/L	EPA 200.8	07/09/08 13:30	ap	
Selenium	ND	5.0	ug/L	EPA 200.8	07/09/08 13:30	ap	
Silver	ND	10	ug/L	EPA 200.8	07/09/08 13:30	ap	
Thallium	ND	200	ug/L	EPA 200.8	07/09/08 13:30	ap	
Vanadium	35	10	ug/L	EPA 200.8	07/09/08 13:30	ap	
Zinc	37	10	ug/L	EPA 200.8	07/09/08 13:30	ap	

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Analytical Report: Page 11 of 23
Project Name: VVWRA-Lab
Project Number: [none]

Work Order Number: A8G0292

Report Date: 18-Jul-2008

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number

A8G0292-02

Sample Description: 1621 NZ-119
Matrix: Liquid
Sampled Date/Time: 07/01/08 12:10
Received Date/Time: 07/02/08 14:30

Table with columns: Analyte(s), Result, RDL, Units, Method, Analysis Date, Analyst, Flag. Contains data for Volatile Organic Compounds by EPA 524.2 and EPA 624.

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Analytical Report: Page 14 of 23
Project Name: VVWRA-Lab
Project Number: [none]

Report Date: 18-Jul-2008

Work Order Number: A8G0292

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number

A8G0292-02

Sample Description 1621 NZ-119 Matrix Liquid Sampled Date/Time 07/01/08 12:10 Received Date/Time 07/02/08 14:30

Table with columns: Analyte(s), Result, RDL, Units, Method, Analysis Date, Analyst, Flag. Contains a list of Semivolatile Organic Compounds by EPA 625 with their respective results and RDL values.

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Analytical Report: Page 15 of 23  
 Project Name: VVWRA-Lab  
 Project Number: [none]

Report Date: 18-Jul-2008

**Work Order Number: A8G0292**

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number

**A8G0292-02**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1621 NZ-119	Liquid	07/01/08 12:10	07/02/08 14:30

<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>Semivolatile Organic Compounds by EPA 625</b>							
Isophorone	ND	10	ug/L	EPA 625	07/10/08 07:13	DF	
n-Nitrosodi-n-propylamine	ND	10	ug/L	EPA 625	07/10/08 07:13	DF	
N-Nitrosodimethylamine	ND	10	ug/L	EPA 625	07/10/08 07:13	DF	
N-Nitrosodiphenylamine	ND	10	ug/L	EPA 625	07/10/08 07:13	DF	
Naphthalene	ND	10	ug/L	EPA 625	07/10/08 07:13	DF	
Nitrobenzene	ND	10	ug/L	EPA 625	07/10/08 07:13	DF	
Pentachlorophenol	ND	50	ug/L	EPA 625	07/10/08 07:13	DF	
Phenanthrene	ND	10	ug/L	EPA 625	07/10/08 07:13	DF	
Phenol	ND	10	ug/L	EPA 625	07/10/08 07:13	DF	
Pyrene	ND	10	ug/L	EPA 625	07/10/08 07:13	DF	
Toxaphene (screen)	ND	50	ug/L	EPA 625	07/10/08 07:13	DF	
γ-BHC	ND	10	ug/L	EPA 625	07/10/08 07:13	DF	
Surrogate: 2,4,6-Tribromophenol	95.3	% 40-109		EPA 625	07/10/08 07:13	DF	
Surrogate: 2-Fluorobiphenyl	70.4	% 42-110		EPA 625	07/10/08 07:13	DF	
Surrogate: 2-Fluorophenol	39.7	% 16-110		EPA 625	07/10/08 07:13	DF	
Surrogate: 4-Terphenyl-d14	87.1	% 41-112		EPA 625	07/10/08 07:13	DF	
Surrogate: Nitrobenzene-d5	68.8	% 44-110		EPA 625	07/10/08 07:13	DF	
Surrogate: Phenol-d6	27.0	% 10-110		EPA 625	07/10/08 07:13	DF	

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Analytical Report: Page 13 of 23
Project Name: VVWRA-Lab
Project Number: [none]

Report Date: 18-Jul-2008

Work Order Number: A8G0292

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number

A8G0292-02

Sample Description
1621 NZ-119

Matrix
Liquid

Sampled Date/Time
07/01/08 12:10

Received Date/Time
07/02/08 14:30

Table with columns: Analyte(s), Result, RDL, Units, Method, Analysis Date, Analyst, Flag. Contains a list of Semivolatile Organic Compounds by EPA 625 and their corresponding results.

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Analytical Report: Page 12 of 23  
 Project Name: VVWRA-Lab  
 Project Number: [none]

Report Date: 18-Jul-2008

**Work Order Number: A8G0292**

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number

**A8G0292-02**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1621 NZ-119	Liquid	07/01/08 12:10	07/02/08 14:30

<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>Volatile Organic Compounds by EPA 624</b>							
Chloroform	ND	0.50	ug/L	EPA 624	07/08/08 12:24	JES	
Chloromethane	ND	0.50	ug/L	EPA 624	07/08/08 12:24	JES	
cis-1,3-Dichloropropene	ND	0.50	ug/L	EPA 624	07/08/08 12:24	JES	
Dibromochloromethane	ND	0.50	ug/L	EPA 624	07/08/08 12:24	JES	
Dichlorodifluoromethane (EPA 8260)	ND	0.50	ug/L	EPA 624	07/08/08 12:24	JES	
Ethylbenzene	ND	0.50	ug/L	EPA 624	07/08/08 12:24	JES	
Methyl tert Butyl Ether	ND	5.0	ug/L	EPA 624	07/08/08 12:24	JES	
Methylene Chloride	ND	3.0	ug/L	EPA 624	07/08/08 12:24	JES	
Tetrachloroethene	ND	0.50	ug/L	EPA 624	07/08/08 12:24	JES	
Toluene	ND	0.50	ug/L	EPA 624	07/08/08 12:24	JES	
trans-1,2-Dichloroethene	ND	0.50	ug/L	EPA 624	07/08/08 12:24	JES	
trans-1,3-Dichloropropene	ND	0.50	ug/L	EPA 624	07/08/08 12:24	JES	
Trichloroethene	ND	0.50	ug/L	EPA 624	07/08/08 12:24	JES	
Trichlorofluoromethane	ND	5.0	ug/L	EPA 624	07/08/08 12:24	JES	
Vinyl Chloride	ND	0.50	ug/L	EPA 624	07/08/08 12:24	JES	
Xylenes (m+p) (EPA 8260B)	ND	0.50	ug/L	EPA 624	07/08/08 12:24	JES	
Xylenes (ortho) (EPA 8260B)	ND	0.50	ug/L	EPA 624	07/08/08 12:24	JES	
Surrogate: 1,2-Dichloroethane-d4	105	% 80-120		EPA 624	07/08/08 12:24	JES	
Surrogate: Bromofluorobenzene	101	% 80-141		EPA 624	07/08/08 12:24	JES	
Surrogate: Toluene-d8	96.1	% 80-120		EPA 624	07/08/08 12:24	JES	
<b>Semivolatile Organic Compounds by EPA 625</b>							
2,3,7,8-TCDD (scan)	ND	0.050	ug/L	EPA 625	07/10/08 07:13	DF	
1,2,4-Trichlorobenzene	ND	10	ug/L	EPA 625	07/10/08 07:13	DF	
1,2-Diphenylhydrazine (EPA 8270)	ND	10	ug/L	EPA 625	07/10/08 07:13	DF	
2,4,6-Trichlorophenol	ND	10	ug/L	EPA 625	07/10/08 07:13	DF	
2,4-Dichlorophenol	ND	10	ug/L	EPA 625	07/10/08 07:13	DF	
2,4-Dimethylphenol	ND	10	ug/L	EPA 625	07/10/08 07:13	DF	
2,4-Dinitrophenol	ND	50	ug/L	EPA 625	07/10/08 07:13	DF	

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 CA ELAP no. 1156  
 EPA no. CA00102



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Client Name: Victor Valley Reclamation Authority  
Contact: Gina Cloutier  
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Analytical Report: Page 2 of 9  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 11-Feb-2008

**Work Order Number: A8A1973**

Received on Ice (Y/N): Yes Temp: 10 °C

Laboratory Reference Number

**A8A1973-01**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
NZ-91 #205Semi-Annuals	Liquid	01/22/08 13:00	01/23/08 14:25

<b>Analyte(s)</b>	<b>Result</b>	<b>RDL</b>	<b>Units</b>	<b>Method</b>	<b>Analysis Date</b>	<b>Analyst</b>	<b>Flag</b>
<b>Cations</b>							
Sodium	57	2.5	mg/L	EPA 200.7	02/01/08 13:17	lmt	
<b>Anions</b>							
Chloride	16	1.0	mg/L	EPA 300.0	01/24/08 00:26	JC	
Sulfate	58	0.50	mg/L	EPA 300.0	01/24/08 00:26	JC	
Nitrate as N	3.9	0.20	mg/L	EPA 300.0	01/24/08 00:26	cth	
Nitrate	17	1.0	mg/L	EPA 300.0	01/24/08 00:26	JC	
<b>Aggregate Organic Compounds</b>							
Total Organic Carbon	ND	0.70	mg/L	SM 5310B	01/30/08 09:10	krv	
Total Petroleum Hydrocarbons	ND	1.0	mg/L	EPA 418.1	01/27/08 11:50	htt	
<b>Surfactants</b>							
MBAS	ND	0.05	mg/L	SM 5540C	01/23/08 18:30	aa	
<b>Nutrients</b>							
Ammonia-Nitrogen	ND	0.10	mg/L	SM4500NH3H	01/25/08 10:36	sll	
Kjeldahl Nitrogen	ND	0.10	mg/L	EPA 351.2	01/30/08 08:49	sll	
<b>Volatile Organic Compounds by EPA 524.2</b>							
Total Trihalomethanes	ND	0.50	ug/L	EPA 524.2	01/24/08 19:44	EEC	
Bromodichloromethane	ND	0.50	ug/L	EPA 524.2	01/24/08 19:44	EEC	
Bromoform	ND	0.50	ug/L	EPA 524.2	01/24/08 19:44	EEC	
Chloroform	ND	0.50	ug/L	EPA 524.2	01/24/08 19:44	EEC	
Dibromochloromethane	ND	0.50	ug/L	EPA 524.2	01/24/08 19:44	EEC	
Surrogate: 1,2-Dichloroethane-d4	107 %	50-150		EPA 524.2	01/24/08 19:44	EEC	
Surrogate: Bromofluorobenzene	93.7 %	50-150		EPA 524.2	01/24/08 19:44	EEC	
Surrogate: Toluene-d8	97.3 %	50-150		EPA 524.2	01/24/08 19:44	EEC	

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Client Name: Victor Valley Reclamation Authority  
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Analytical Report: Page 3 of 9  
 Project Name: VVWRA-Lab  
 Project Number: [none]

Report Date: 11-Feb-2008

**Work Order Number: A8A1973**

Received on Ice (Y/N): Yes Temp: 10 °C

Laboratory Reference Number

**A8A1973-02**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
NZ-119 #206Semi-Annuals	Liquid	01/22/08 14:45	01/23/08 14:25

<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>
Cations							
Sodium	58	1.0	mg/L	EPA 200.7	02/01/08 13:19	lmt	
Anions							
Chloride	3.6	1.0	mg/L	EPA 300.0	01/24/08 00:35	JC	
Sulfate	130	0.50	mg/L	EPA 300.0	01/24/08 00:35	JC	
Nitrate as N	0.86	0.20	mg/L	EPA 300.0	01/24/08 00:35	cth	
Nitrate	3.8	1.0	mg/L	EPA 300.0	01/24/08 00:35	JC	
Aggregate Organic Compounds							
Total Organic Carbon	ND	0.70	mg/L	SM 5310B	01/30/08 09:10	krv	
Total Petroleum Hydrocarbons	ND	1.0	mg/L	EPA 418.1	01/27/08 11:50	htt	
Surfactants							
MBAS	ND	0.05	mg/L	SM 5540C	01/23/08 18:30	aa	
Nutrients							
Ammonia-Nitrogen	ND	0.10	mg/L	SM4500NH3H	01/25/08 10:39	sli	
Kjeldahl Nitrogen	ND	0.10	mg/L	EPA 351.2	01/30/08 08:51	sli	
Volatile Organic Compounds by EPA 524.2							
Total Trihalomethanes	ND	0.50	ug/L	EPA 524.2	01/24/08 20:19	EEC	
Bromodichloromethane	ND	0.50	ug/L	EPA 524.2	01/24/08 20:19	EEC	
Bromoform	ND	0.50	ug/L	EPA 524.2	01/24/08 20:19	EEC	
Chloroform	ND	0.50	ug/L	EPA 524.2	01/24/08 20:19	EEC	
Dibromochloromethane	ND	0.50	ug/L	EPA 524.2	01/24/08 20:19	EEC	
Surrogate: 1,2-Dichloroethane-d4	104 %	50-150		EPA 524.2	01/24/08 20:19	EEC	
Surrogate: Bromofluorobenzene	97.2 %	50-150		EPA 524.2	01/24/08 20:19	EEC	
Surrogate: Toluene-d8	96.6 %	50-150		EPA 524.2	01/24/08 20:19	EEC	

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Client Name: Victor Valley Reclamation Authority  
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Analytical Report: Page 4 of 9  
 Project Name: VVWRA-Lab  
 Project Number: [none]

Report Date: 11-Feb-2008

**Work Order Number: A8A1973**

Received on Ice (Y/N): Yes Temp: 10 °C

Laboratory Reference Number

**A8A1973-03**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
NZ-123 #207Semi-Annuals	Liquid	01/22/08 14:05	01/23/08 14:25

<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>Cations</b>							
Sodium	97	1.0	mg/L	EPA 200.7	02/04/08 11:50	lmt	
<b>Anions</b>							
Chloride	100	1.0	mg/L	EPA 300.0	01/24/08 00:44	JC	
Sulfate	140	0.50	mg/L	EPA 300.0	01/24/08 00:44	JC	
Nitrate as N	6.0	0.20	mg/L	EPA 300.0	01/24/08 00:44	cth	
Nitrate	26	1.0	mg/L	EPA 300.0	01/24/08 00:44	JC	
<b>Aggregate Organic Compounds</b>							
Total Organic Carbon	0.82	0.70	mg/L	SM 5310B	02/05/08 14:18	krv	
Total Petroleum Hydrocarbons	ND	1.0	mg/L	EPA 418.1	01/27/08 11:50	htt	
<b>Surfactants</b>							
MBAS	ND	0.20	mg/L	SM 5540C	01/23/08 18:30	aa	
<b>Nutrients</b>							
Ammonia-Nitrogen	ND	0.10	mg/L	SM4500NH3H	01/25/08 10:41	sll	
Kjeldahl Nitrogen	0.53	0.10	mg/L	EPA 351.2	01/30/08 08:57	sll	
<b>Volatile Organic Compounds by EPA 524.2</b>							
Total Trihalomethanes	ND	0.50	ug/L	EPA 524.2	01/24/08 20:55	EEC	
Bromodichloromethane	ND	0.50	ug/L	EPA 524.2	01/24/08 20:55	EEC	
Bromoform	ND	0.50	ug/L	EPA 524.2	01/24/08 20:55	EEC	
Chloroform	ND	0.50	ug/L	EPA 524.2	01/24/08 20:55	EEC	
Dibromochloromethane	ND	0.50	ug/L	EPA 524.2	01/24/08 20:55	EEC	
Surrogate: 1,2-Dichloroethane-d4	106 %	50-150		EPA 524.2	01/24/08 20:55	EEC	
Surrogate: Bromofluorobenzene	95.4 %	50-150		EPA 524.2	01/24/08 20:55	EEC	
Surrogate: Toluene-d8	95.9 %	50-150		EPA 524.2	01/24/08 20:55	EEC	

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Client Name: Victor Valley Reclamation Authority
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Analytical Report: Page 16 of 23
Project Name: VVWRA-Lab
Project Number: [none]

Report Date: 18-Jul-2008

Work Order Number: A8G0292

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number

A8G0292-03

Sample Description: 1622 NZ-123
Matrix: Liquid
Sampled Date/Time: 07/01/08 10:50
Received Date/Time: 07/02/08 14:30

Table with 7 columns: Analyte(s), Result, RDL, Units, Method, Analysis Date, Analyst, Flag. Rows include Cations (Total Hardness, Calcium, Magnesium, Sodium, Potassium), Anions (Total Alkalinity, Hydroxide, Carbonate, Bicarbonate, Chloride, Sulfate, Nitrate as N), Aggregate Organic Compounds (Total Organic Carbon, Total Petroleum Hydrocarbons, Phenols), Surfactants (MBAS), and General Inorganics (Cyanide).

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Client Name: Victor Valley Reclamation Authority  
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Analytical Report: Page 17 of 23  
 Project Name: VVWRA-Lab  
 Project Number: [none]

Report Date: 18-Jul-2008

**Work Order Number: A8G0292**

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number

**A8G0292-03**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1622 NZ-123	Liquid	07/01/08 10:50	07/02/08 14:30

<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>Nutrients</b>							
Nitrite as N	ND	0.10	mg/L	SM 4500NO2 B	07/02/08 21:11	jc	
Ammonia-Nitrogen	ND	0.10	mg/L	SM4500NH3H	07/07/08 12:20	sil	
Kjeldahl Nitrogen	0.46	0.10	mg/L	EPA 351.2	07/09/08 09:39	sil	
<b>Metals and Metalloids</b>							
Antimony	ND	10	ug/L	EPA 200.8	07/09/08 13:34	ap	
Arsenic	ND	5.0	ug/L	EPA 200.8	07/09/08 13:34	ap	
Barium	180	20	ug/L	EPA 200.8	07/09/08 13:34	ap	
Beryllium	ND	10	ug/L	EPA 200.8	07/09/08 13:34	ap	
Boron	120	100	ug/L	EPA 200.7	07/08/08 21:18	lmt	
Cadmium	ND	2.0	ug/L	EPA 200.8	07/09/08 13:34	ap	
Total Chromium	21	20	ug/L	EPA 200.8	07/09/08 13:34	ap	
Cobalt	ND	10	ug/L	EPA 200.8	07/09/08 13:34	ap	
Copper	23	10	ug/L	EPA 200.8	07/09/08 13:34	ap	
Iron	20000	500	ug/L	EPA 200.7	07/09/08 17:20	lmt	
Lead	ND	10	ug/L	EPA 200.8	07/09/08 13:34	ap	
Manganese	590	10	ug/L	EPA 200.8	07/09/08 13:34	ap	
Mercury	ND	0.50	ug/L	EPA 200.8	07/09/08 13:34	ap	
Molybdenum	ND	10	ug/L	EPA 200.8	07/09/08 13:34	ap	
Nickel	ND	20	ug/L	EPA 200.8	07/09/08 13:34	ap	
Selenium	ND	5.0	ug/L	EPA 200.8	07/09/08 13:34	ap	
Silver	ND	10	ug/L	EPA 200.8	07/09/08 13:34	ap	
Thallium	ND	200	ug/L	EPA 200.8	07/09/08 13:34	ap	
Vanadium	58	10	ug/L	EPA 200.8	07/09/08 13:34	ap	
Zinc	62	10	ug/L	EPA 200.8	07/09/08 13:34	ap	

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Client Name: Victor Valley Reclamation Authority
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Analytical Report: Page 19 of 23
Project Name: VVWRA-Lab
Project Number: [none]

Report Date: 18-Jul-2008

Work Order Number: A8G0292

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number

A8G0292-03

Sample Description: 1622 NZ-123
Matrix: Liquid
Sampled Date/Time: 07/01/08 10:50
Received Date/Time: 07/02/08 14:30

Table with 8 columns: Analyte(s), Result, RDL, Units, Method, Analysis Date, Analyst, Flag. Rows include Volatile Organic Compounds by EPA 624 (Chloroform, Chloromethane, etc.) and Semivolatile Organic Compounds by EPA 625 (2,3,7,8-TCDD, etc.).

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Client Name: Victor Valley Reclamation Authority
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Analytical Report: Page 18 of 23
Project Name: VVWRA-Lab
Project Number: [none]

Report Date: 18-Jul-2008

Work Order Number: A8G0292

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number

A8G0292-03

Sample Description: 1622 NZ-123
Matrix: Liquid
Sampled Date/Time: 07/01/08 10:50
Received Date/Time: 07/02/08 14:30

Table with columns: Analyte(s), Result, RDL, Units, Method, Analysis Date, Analyst, Flag. Contains data for Volatile Organic Compounds by EPA 524.2 and EPA 624.

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Client Name: Victor Valley Reclamation Authority  
Contact: Gina Cloutier  
Address: 15776 Main St. Suite 3  
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Analytical Report: Page 21 of 23  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 18-Jul-2008

**Work Order Number: A8G0292**

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number

**A8G0292-03**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1622 NZ-123	Liquid	07/01/08 10:50	07/02/08 14:30

<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>Semivolatile Organic Compounds by EPA 625</b>							
Benzo(b)fluoranthene	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Benzo(ghi)perylene	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Benzo(k)fluoranthene	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Bis(2-chloroethoxy)methane	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Bis(2-Chloroethyl)ether	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Bis(2-chloroisopropyl)Ether	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Bis(2-ethylhexyl)phthalate	ND	3.0	ug/L	EPA 625	07/10/08 07:42	DF	
Butyl benzyl phthalate	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Chlordane (screen)	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Chrysene	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
d-BHC	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Di-n-butylphthalate	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Di-n-octylphthalate	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Dibenzo(a,h)anthracene	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Dieldrin	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Diethyl phthalate	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Dimethyl phthalate	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Endosulfan I	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Endosulfan II	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Endosulfan Sulfate	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Endrin	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Fluoranthene	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Fluorene	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Heptachlor	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Heptachlor Epoxide	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Hexachlorobenzene	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Hexachlorobutadiene	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Hexachlorocyclopentadiene	ND	50	ug/L	EPA 625	07/10/08 07:42	DF	
Hexachloroethane	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	

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Client Name: Victor Valley Reclamation Authority  
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Analytical Report: Page 20 of 23  
 Project Name: VVWRA-Lab  
 Project Number: [none]

Report Date: 18-Jul-2008

**Work Order Number: A8G0292**

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number

**A8G0292-03**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1622 NZ-123	Liquid	07/01/08 10:50	07/02/08 14:30

<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>
Semivolatile Organic Compounds by EPA 625							
2,4-Dinitrotoluene	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
2,6-Dinitrotoluene	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
2-Chloronaphthalene	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
2-Chlorophenol	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
2-Methyl-4,6-Dinitrophenol	ND	50	ug/L	EPA 625	07/10/08 07:42	DF	
2-Nitrophenol	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
3,3'-Dichlorobenzidine	ND	20	ug/L	EPA 625	07/10/08 07:42	DF	
4,4'-DDD	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
4,4'-DDE	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
4,4'-DDT	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
4-Bromophenyl phenyl ether	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
4-Chloro-3-methylphenol	ND	20	ug/L	EPA 625	07/10/08 07:42	DF	
4-Chlorophenyl phenyl ether	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
4-Nitrophenol	ND	50	ug/L	EPA 625	07/10/08 07:42	DF	
a-BHC	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Acenaphthene	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Acenaphthylene	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Aldrin	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Anthracene	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Aroclor 1016 (screen)	ND	50	ug/L	EPA 625	07/10/08 07:42	DF	
Aroclor 1221 (screen)	ND	50	ug/L	EPA 625	07/10/08 07:42	DF	
Aroclor 1232 (screen)	ND	50	ug/L	EPA 625	07/10/08 07:42	DF	
Aroclor 1242 (screen)	ND	50	ug/L	EPA 625	07/10/08 07:42	DF	
Aroclor 1248 (screen)	ND	50	ug/L	EPA 625	07/10/08 07:42	DF	
Aroclor 1254 (screen)	ND	50	ug/L	EPA 625	07/10/08 07:42	DF	
Aroclor 1260 (screen)	ND	50	ug/L	EPA 625	07/10/08 07:42	DF	
b-BHC	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Benzidine	ND	50	ug/L	EPA 625	07/10/08 07:42	DF	
Benzo(a)anthracene	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Benzo(a)pyrene	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	

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NELAP no. 02101CA  
 CA ELAP no. 1156  
 EPA no. CA00102



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Environmental Laboratories *est 1906*

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

Analytical Report: Page 23 of 23  
Project Name: VVWRA-Lab  
Project Number: [none]

Report Date: 18-Jul-2008

Work Order Number: A8G0292

Received on Ice (Y/N): Yes Temp: 5 °C

Notes and Definitions

- N\_pScr Sample screened for interference and preserved upon receipt to the laboratory.
- NCEVE In an acidified sample, this compound degrades and is not detectable as 2-Chloroethylvinyl ether. Its degradation product is 2-Chloroethanol, which is not an analyte of this method.
- 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

\* / (Non-NELAP): 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.

*Lorenzo Rodriguez*

- Lorenzo Rodriguez Project Manager
- Allison MacKenzie General Manager
- Lawrence J. Chrystal Laboratory Director

cc: ESB\_Short\_Report

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Analytical Report: Page 22 of 23  
 Project Name: VVWRA-Lab  
 Project Number: [none]

Report Date: 18-Jul-2008

**Work Order Number: A8G0292**

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number  
**A8G0292-03**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1622 NZ-123	Liquid	07/01/08 10:50	07/02/08 14:30

<b>Analyte(s)</b>	<b>Result</b>	<b>RDL</b>	<b>Units</b>	<b>Method</b>	<b>Analysis Date</b>	<b>Analyst</b>	<b>Flag</b>
<b>Semivolatile Organic Compounds by EPA 625</b>							
Isophorone	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
n-Nitrosodi-n-propylamine	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
N-Nitrosodimethylamine	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
N-Nitrosodiphenylamine	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Naphthalene	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Nitrobenzene	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Pentachlorophenol	ND	50	ug/L	EPA 625	07/10/08 07:42	DF	
Phenanthrene	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Phenol	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Pyrene	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Toxaphene (screen)	ND	50	ug/L	EPA 625	07/10/08 07:42	DF	
y-BHC	ND	10	ug/L	EPA 625	07/10/08 07:42	DF	
Surrogate: 2,4,6-Tribromophenol	62.7	% 40-109		EPA 625	07/10/08 07:42	DF	
Surrogate: 2-Fluorobiphenyl	47.8	% 42-110		EPA 625	07/10/08 07:42	DF	
Surrogate: 2-Fluorophenol	32.5	% 16-110		EPA 625	07/10/08 07:42	DF	
Surrogate: 4-Terphenyl-d14	67.4	% 41-112		EPA 625	07/10/08 07:42	DF	
Surrogate: Nitrobenzene-d5	50.3	% 44-110		EPA 625	07/10/08 07:42	DF	
Surrogate: Phenol-d6	25.8	% 10-110		EPA 625	07/10/08 07:42	DF	

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