

Results of Toxicity Testing for Aliso, Poggi, and Chollas Creeks

Samples Collected: June 1 - 2, 2006

Prepared for: Weck Laboratories, Inc.

Analytical & Environmental Services

14859 East Clark Avenue City of Industry, CA 91745

Nautilus Environmental Testing Location:

5550 Morehouse Drive, Ste. 150

San Diego, CA 92121

Submitted: June 30, 2006

Data Quality Assurance:

- Nautilus Environmental is a state certified laboratory under the California Department of Health Services -Environmental Laboratory Accreditation Program (ELAP), Certificate No. 1802.
- All test results included in this report have met internal Quality Assurance requirements, as well as all minimum acceptability criteria for test controls under the EPA protocol requirements.
- All data have been reviewed and verified.

Results Verified By: <u>fluw Carbon</u> Date: <u>6-30-06</u>

SUMMARY TOXICITY REPORT Site Names: ALC6, POG3, CHL4
Test ID Nos.: 0606-S002, 003, 004 Submitted: June 30, 2006

Sample Information

Client/Project Management: Weck Laboratories, Inc.

Sample ID Names: Aliso Creek 6 Poggi Creek 3 Chollas Creek 4 Sample ID Code: ALC 6 POG 3 CHL 4 Work Order No.: 6060129 6060219 6060235 Weck Lab ID: Pathn-0506-10 Pathn-0506-19 Pathn-0506-17 Sample Collection Date/Time: 6/1/06, 09:30 6/2/06, 10:25 6/2/06, 11:50 Sample Receipt Date/Time: 6/2/06, 11:50 6/2/06, 11:50 6/2/06, 14:15

Materials Tested: Both a water sample and a sediment sample were received for

each of the 3 sites. The water sample was tested with Selenastrum and Ceriodaphnia, while the sediment sample was

tested with Hyalella.

Selenastrum Chronic Test Specifications

Test Period: 6/2/06 - 6/6/06

Test Organism: Selenastrum capricornutum (green algae)

Test Organism Source/Age: In-house culture/ 8 days log phase (the protocol requires an age

range of 4 to 7 days log phase. Our in-house culture is of the proper age Monday through Thursday. Since the sample was received on Friday, only 8-day algae was available for testing)

Test Concentrations: 100% undiluted water sample; Lab and Conductivity Controls

Lab Control Water: Nutrient-enriched nanopure deionized water

Conductivity Control: Laboratory water spiked with a small amount of seawater,

raising the conductivity level to match the sample water. The conductivity control was used for comparison purposes only.

Sample Treatment: Filtered to 0.45 µm (per EPA protocol requirements; however, a

100% unfiltered sample was also tested for comparison)

Test Protocol: EPA/ 821/R-02/013, Oct. 2002

Test Data Analysis: CETIS, version 1.025B statistical software

Ceriodaphnia Chronic Test Specifications

Test Period: 6/2/06 - 6/9/06

Test Organism: Ceriodaphnia dubia (water flea)
Test Organism Source/Age: In-house culture / <24 hours old

Test Concentrations: 100% undiluted water sample; Lab and Conductivity Controls

Lab Control Water: EPA laboratory freshwater (diluted mineral water)

Conductivity Control: Laboratory water spiked with a small amount of seawater,

raising the conductivity level to match the sample water. The conductivity control was used for comparison purposes only.

Test Protocol: EPA/ 821/R-02/013, Oct. 2002

Test Data Analysis: CETIS, version 1.025B statistical software

Hyalella Chronic Test Specifications (Sediment Sample)

Test Period: 6/13/06 - 6/23/06

Test Organism: Hyalella azteca (freshwater amphipod)
Test Organism Source/Age: Aquatic Biosystems, Inc. / 12-14 days old

Test Concentrations: Whole sediment sample; plus Lab Control sediment

Control Sediment: Natural beach sand - rinsed and cleaned with deionized water

Overlying Test Water: Laboratory freshwater – passed through a series of Culligan

filters to remove impurities

Test Protocol: EPA/600/R-99/064, 2000; and ASTM/ E-1383-94, 1994

Test Procedural Endpoints: 10-day Survival and Growth of the amphipods

Test Data Analysis: Standard T-tests using GraphPad Prism Software, version 4.02

Results

Statistical results for the 3 sample sites are summarized in Tables 1, 2, and 3. Table 4 provides a complete summary of all the testing, for all 3 sites. Table 4 also provides data on the Conductivity Controls conducted with the *Ceriodaphnia* and *Selenastrum* tests for comparison purposes. All 3 sample sites resulted in different degrees of toxicity with *Ceriodaphnia*, however responses were similar to their respective Conductivity Control, indicating that the high conductivity levels in the samples were the primary driver of toxicity. The sample with the highest conductivity level (Chollas Creek), also resulted in toxicity with the *Selenastrum* test. It should be noted, however, that the Selenastrum growth in the Chollas Creek sample was approximately half that of its respective Conductivity Control, indicating that conductivity may not be the only driver of toxicity. Only the Poggi Creek sample produced a toxic response in the *Hyalella* test. Bench datasheets and statistical analyses for each test species are presented in Appendices A, B, and C. Sample information upon receipt can be found in Appendix D, and the chain-of-custody forms can be found in Appendix E.

Table 1. Summary of Statistical Results: Aliso Creek 6 (ALC6)

Test Species & Endpoint	NOEC (% sample)	Toxic Response	TU value
Selenastrum: Cell Density Growth	100	No	1.0
Ceriodaphnia: Survival	100	No	1.0
Reproduction	< 100	Yes	> 1.0
<i>Hyalella</i> (sediment): Survival Growth	100	No	1.0
	100	No	1.0

NOEC = No Observed Effect Concentration

Toxic Response: whether there was a statistical difference compared to the Lab Control, indicating toxicity

Table 2. Summary of Statistical Results: Poggi Creek 3 (POG3)

Test Species & Endpoint	NOEC (% sample)	Toxic Response	TU value
Selenastrum: Cell Density Growth	100	No	1.0
Ceriodaphnia: Survival	100	No	1.0
Reproduction	< 100	Yes	> 1.0
<i>Hyalella</i> (sediment): Survival	< 100	Yes	> 1.0
Growth	< 100	Yes	> 1.0

Table 3. Summary of Statistical Results: Chollas Creek 4 (CHL4)

Test Species & Endpoint	NOEC (% sample)	Toxic Response	TU value
Selenastrum: Cell Density Growth	< 100	Yes	> 1.0
Ceriodaphnia: Survival	< 100	Yes	> 1.0
Reproduction	< 100	Yes	> 1.0
<i>Hyalella</i> (sediment): Survival	100	No	1.0
Growth	100	No	1.0

Table 4. Detailed Results of Chronic Testing

Sample	Selenastrum	Ceriod	laphnia	Hyalella l	Amphipod
Site Name (100%)	Algal Growth (cells/ml)	Mean Survival (%)	Mean Reproduction (# produced)	Mean Survival (%)	Dry Weight (mg)
Lab Control	1,580,000	100	22.8	90	0.239
Aliso Creek 6	1,860,000	100	18.2 *	92	0.201
Poggi Creek 3	1,480,000	100	16.5 *	48 *	0.169 *
Chollas Creek 4	578,000 *	0 *	0 *	99	0.329
Conductivity Control (3,200)	1,940,000	100	15.6 *	na	na
Conductivity Control (9,800)	901,000 *	0 *	0 *	na	na

Notes: 1) An asterisk (*) indicates a significant difference compared to the Lab Control, indicating a toxic response.

²⁾ The 1st Conductivity Control has a conductivity of 3,200 uS/cm, matching the Aliso and Poggi Creek samples. The 2nd Conductivity Control has a conductivity of 9,800 uS/cm, matching the Chollas Creek sample.



Results of Toxicity Testing for Keys Creek & Santa Margarita River

Samples Collected: June 6, 2006

Prepared for: Weck Laboratories, Inc.

Analytical & Environmental Services

14859 East Clark Avenue City of Industry, CA 91745

Testing Location: Nautilus Environmental

5550 Morehouse Drive, Ste. 150

San Diego, CA 92121

Submitted: June 30, 2006

Data Quality Assurance:

- Nautilus Environmental is a state certified laboratory under the California Department of Health Services -Environmental Laboratory Accreditation Program (ELAP), Certificate No. 1802.
- All test results included in this report have met internal Quality Assurance requirements, as well as all minimum acceptability criteria for test controls under the EPA protocol requirements.
- All data have been reviewed and verified.

Results Verified By: Stew Carlow Date: 6-30-06

SUMMARY TOXICITY REPORT Site Names: KYS 3 and SMR 1 Test ID Nos.: 0606-S057, 058, 059 Submitted: June 30, 2006

Sample Information

Client/Project Management: Weck Laboratories, Inc.

Sample ID Names: Keys Creek 3 Santa Margarita River 1

KYS 3 Sample ID Code: SMR 1 Work Order No.: 6060632 6060619 Weck Lab ID: Pathn-0506-12

Pathn-0506-11 Sample Collection Date/Time: 6/6/06, 11:20 6/6/06, 09:18

Sample Receipt Date/Time: 6/6/06, 14:00 6/6/06, 14:00

Materials to be Tested: Both a water sample and a sediment sample were received for

> each site. The water sample was tested with Selenastrum and Ceriodaphnia, while the sediment sample was tested with the

Hyalella amphipod.

Selenastrum Chronic Test Specifications

Test Period: 6/6/06 - 6/10/06

Test Organism: Selenastrum capricornutum (green algae)

Test Organism Source/Age: In-house culture/ 5 days log phase

Test Concentrations: 100% undiluted water sample; Lab and Conductivity Controls

Lab Control Water: Nutrient-enriched nanopure deionized water

Conductivity Control: Laboratory water spiked with a small amount of seawater.

> raising the conductivity level to match the sample water. The conductivity control was tested for comparison purposes only.

Sample Treatment: Filtered to 0.45 µm (per EPA protocol requirements; however, a

100% unfiltered sample was also tested for comparison)

Test Protocol: EPA/ 821/R-02/013, Oct. 2002

Test Data Analysis: CETIS, version 1.025B statistical software

Ceriodaphnia Chronic Test Specifications

Test Period: 6/6/06 - 6/13/06

Test Organism: Ceriodaphnia dubia (water flea) Test Organism Source/Age:

In-house culture / <24 hours old

100% undiluted water sample; Lab and Conductivity Controls Test Concentrations:

Lab Control Water: EPA laboratory freshwater (diluted mineral water)

Conductivity Control: Laboratory water spiked with a small amount of seawater,

> raising the conductivity level to match the sample water. The conductivity control was tested for comparison purposes only.

Test Protocol: EPA/ 821/R-02/013, Oct. 2002

Test Data Analysis: CETIS, version 1.025B statistical software

Hyalella Chronic Test Specifications

Test Period: 6/13/06 - 6/23/06

Test Organism: Hyalella azteca (freshwater amphipod)
Test Organism Source/Age: Aquatic Biosystems, Inc. / 12-14 days old

Test Concentrations: Whole sediment sample; plus Lab Control sediment

Control Sediment: Natural beach sand - rinsed and cleaned with deionized water

Overlying Test Water: Laboratory freshwater – passed through a series of Culligan

filters to remove impurities

Test Protocol: EPA/600/R-99/064, 2000; and ASTM/ E-1383-94, 1994

Test Procedural Endpoints: 10-day Survival and Growth of the amphipods

Test Data Analysis: Standard T-tests using GraphPad Prism Software, version 4.02

Results

Statistical results for the 2 sample sites are summarized in Tables 1 and 2. Table 3 provides a complete summary of all the testing, for both sites. Table 3 also provides data on the Conductivity Control conducted with the *Ceriodaphnia* and *Selenastrum* tests for comparison purposes. The only test to result in a toxic response was the Keys Creek sample, with regards to the *Ceriodaphnia* reproduction endpoint. However, the Conductivity Control also showed similar toxic response with the *Ceriodaphnia* reproduction, indicating the high conductivity levels in the Keys Creek sample may be the primary driver of toxicity. Bench datasheets and statistical analyses for each test species are presented in Appendices A, B, and C. Sample information upon receipt can be found in Appendix D, and the chain-of-custody forms can be found in Appendix E.

Table 1. Summary of Statistical Results: Keys Creek 3 (KYS3)

Test Species & Endpoint	NOEC (% sample)	Toxic Response	TU value
Selenastrum: Cell Density Growth	100	No	1.0
Ceriodaphnia: Survival	100	No	1.0
Reproduction	< 100	Yes	> 1.0
<i>Hyalella</i> (sediment): Survival	100	No	1.0
Growth	100	No	1.0

NOEC = No Observed Effect Concentration

Toxic Response: whether there was a statistical difference compared to the Lab Control, indicating toxicity

Table 2. Summary of Statistical Results: Santa Margarita River 1 (SMR1)

Test Species & Endpoint	NOEC (% sample)	Toxic Response	TU value
Selenastrum: Cell Density Growth	100	No	1.0
Ceriodaphnia: Survival	100	No	1.0
Reproduction	100	No	1.0
Hyalella (sediment): Survival	100	No	1.0
Growth	100	No	1.0

Table 3. Detailed Results of Chronic Testing

Sample	Selenastrum	Ceriod	Ceriodaphnia		Amphipod
Site Name (100%)	Algal Growth (cells/ml)	Mean Survival (%)	Reproduction (# produced)	Mean Survival (%)	Dry Weight (mg)
Lab Control	1,310,000	100	23.3	90	0.239
Keys Creek 3	2,390,000	100	16.6 *	95	0.227
Santa Margarita 1	2,930,000	100	23.9	95	0.239
Conductivity Control (2,600)	1,450,000	100	19.7 *	na	na

Notes: 1) An asterisk (*) indicates a significant difference compared to the Lab Control, indicating a toxic response.

²⁾ The Conductivity Control has a conductivity of 2,600 µS/cm, matching the highest sample level (Keys Creek).



Results of Toxicity Testing for Samples Collected June 8 - 9, 2006

Sample Sites: Lawson Valley Creek Santa Ysabel Creek San Vicente Creek

Prepared for:

Weck Laboratories, Inc.

Analytical & Environmental Services

14859 East Clark Avenue City of Industry, CA 91745

Testing Location:

Nautilus Environmental

5550 Morehouse Drive, Ste. 150

San Diego, CA 92121

Submitted:

June 30, 2006

Data Quality Assurance:

- Nautilus Environmental is a state certified laboratory under the California Department of Health Services -Environmental Laboratory Accreditation Program (ELAP), Certificate No. 1802.
- All test results included in this report have met internal Quality Assurance requirements, as well as all minimum acceptability criteria for test controls under the EPA protocol requirements.
- All data have been reviewed and verified.

Results Verified By: Store Carbon Date: 6-30-06

SUMMARY TOXICITY REPORT Site Names: LAW2, YSA4, SVC3
Test ID Nos.: 0606-S060, 061, 062 Submitted: June 30, 2006

Sample Information

Client/Project Management: Weck Laboratories, Inc.

Sample ID Names: <u>Lawson Valley Creek2</u> <u>Santa Ysabel Creek4</u> <u>San Vicente Creek3</u>

Sample ID Code: LAW 2 YSA 4 SVC 3 Work Order No.: 6060813 6060924 6060931 Weck Lab ID: Pathn-0506-18 Pathn-0506-14 Pathn-0506-16 Sample Collection Dates/Times: 6/8/06, 09:00 6/9/06, 10:20 6/9/06, 12:50 Sample Receipt Dates/Times: 6/8/06, 11:15 6/9/06, 12:25 6/9/06, 15:45

Materials Tested: Both a water sample and a sediment sample were received for

each of the three sites. The water sample was tested with Selenastrum and Ceriodaphnia, while the sediment sample was

tested with Hyalella.

Selenastrum Chronic Test Specifications

Test Period: 6/9/06 - 6/13/06

Test Organism: Selenastrum capricornutum (green algae)

Test Organism Source/Age: In-house culture/ 8 days log phase (the protocol requires an age

range of 4 to 7 days log phase. Our in-house culture is of the proper age Monday through Thursday. Since the sample was received on Friday, only 8-day algae was available for testing)

Test Concentrations: 100% undiluted water sample; plus Lab Control Lab Control Water: Nutrient-enriched nanopure deionized water

Sample Treatment: Filtered to 0.45 µm (per EPA protocol requirements; however, a

100% unfiltered sample was also tested for comparison)

Test Protocol: EPA/821/R-02/013, Oct. 2002

Test Data Analysis: CETIS, version 1.025B statistical software

Ceriodaphnia Chronic Test Specifications

Test Period: 6/9/06 - 6/16/06

Test Organism: Ceriodaphnia dubia (water flea)
Test Organism Source/Age: In-house culture / <8 hours old

Test Concentrations: 100% undiluted water sample; plus Lab Control Lab Control Water: EPA laboratory freshwater (diluted mineral water)

Test Protocol: EPA/821/R-02/013, Oct. 2002

Test Data Analysis: CETIS, version 1.025B statistical software

Hyalella Chronic Test Specifications

Test Period: 6/16/06 - 6/26/06

Test Organism: Hyalella azteca (freshwater amphipod)
Test Organism Source/Age: Aquatic Biosystems, Inc. / 12-14 days old

Test Concentrations: Whole sediment sample; plus Lab Control sediment

Control Sediment: Natural beach sand - rinsed and cleaned with deionized water.

Overlying Test Water: Laboratory freshwater – passed through a series of Culligan

filters to remove impurities

Test Protocol: EPA/600/R-99/064, 2000; and ASTM/ E-1383-94, 1994

Test Procedural Endpoints: 10-day Survival and Growth

Test Data Analysis: Standard T-tests using GraphPad Prism Software, version 4.02

Results

Statistical results for the 3 sample sites are summarized in Tables 1, 2, and 3. Table 4 provides a complete summary of all the testing, for all 3 sites. No toxicity was observed in any of the three water samples to either *Ceriodaphnia* or *Selenastrum*. Similarly, the sediment tested for all three sites showed no toxic effect to *Hyalella*. Bench datasheets and statistical analyses for each test species are presented in Appendices A, B, and C. Sample information upon receipt can be found in Appendix D, and the chain-of-custody forms can be found in Appendix E.

Table 1. Summary of Statistical Results: Lawson Valley Creek 2 (LAW2)

Test Species & Endpoint	NOEC (% sample)	Toxic Response	TU value
Selenastrum: Cell Density Growth	100	No	1.0
Ceriodaphnia: Survival	100	No	1.0
Reproduction	100	No	1.0
Hyalella (sediment): Survival Growth	100	No	1.0
	100	No	1.0

NOEC = No Observed Effect Concentration

Toxic Response: whether there was a statistical difference compared to the Lab Control, indicating toxicity

Table 2. Summary of Statistical Results: Santa Ysabel Creek 4 (YSA4)

Test Species & Endpoint	NOEC (% sample)	Toxic Response	TU value
Selenastrum: Cell Density Growth	100	No	1.0
Ceriodaphnia: Survival	100	No	1.0
Reproduction	100	No	1.0
<i>Hyalella</i> (sediment): Survival Growth	100	No	1.0
	100	No	1.0

Table 3. Summary of Statistical Results: San Vicente Creek 3 (SVC3)

Test Species & Endpoint	NOEC (% sample)	Toxic Response	TU value
Selenastrum: Cell Density Growth	100	No	1.0
Ceriodaphnia: Survival Reproduction	100	No	1.0
	100	No	1.0
<i>Hyalella</i> (sediment): Survival	100	No	1.0
Growth	100	No	1.0

Table 4. Detailed Results of Chronic Testing

	Selenastrum Ceriodaphnia		Hyalella P	Amphipod	
Sample Site Name (100%)	Algal Growth (cells/ml)	Mean Survival (%)	Mean Reproduction (# produced)	Mean Survival (%)	Dry Weight (mg)
Lab Control	1,140,000	90	18.3	93	0.121
Lawson Valley Creek	2,990,000	100	24.8	85	0.121
Santa Ysabel Creek	2,810,000	100	26.1	95	0.124
San Vicente Creek	2,710,000	100	23.6	93	0.146



Results of Toxicity Testing for Rose Canyon & Escondido Creeks

Samples Collected: June 13, 2006

Prepared for: Weck Laboratories, Inc.

Analytical & Environmental Services

14859 East Clark Avenue City of Industry, CA 91745

Testing Location: Nautilus Environmental

5550 Morehouse Drive, Ste. 150

San Diego, CA 92121

Submitted: June 30, 2006

Data Quality Assurance:

- Nautilus Environmental is a state certified laboratory under the California Department of Health Services – Environmental Laboratory Accreditation Program (ELAP), Certificate No. 1802.
- All test results included in this report have met internal Quality Assurance requirements, as well as all minimum acceptability criteria for test controls under the EPA protocol requirements.
- All data have been reviewed and verified.

Results Verified By:

Date: 6/30/06

SUMMARY TOXICITY REPORT Site Names: RCC4 and EC5 Test ID Nos.: 0606-S063, 064 Submitted: June 30, 2006

Sample Information

Client: Weck Laboratories, Inc.

Sample ID Names: Rose Canyon Creek 4 Escondido Creek 5

Sample ID Code: RCC4 EC5 Work Order No.: 6061322 6061321 Weck Lab ID: Pathn-0506-15 Pathn-0506-13 6/13/06, 10:54 Sample Collection Date/Time: 6/13/06, 08:47 Sample Receipt Date/Time: 6/13/06, 12:00 6/13/06, 12:00

Materials Tested: A water sample was received for both sites; no sediment was

collected for this study. The water samples were tested with

Selenastrum and Ceriodaphnia.

Selenastrum Chronic Test Specifications

Test Period: 6/13/06 - 6/17/06

Test Organism: Selenastrum capricornutum (green algae)

Test Organism Source/Age: In-house culture/ 5 days log phase

Test Concentrations: 100% undiluted water sample; Lab and Conductivity Controls

Lab Control Water: Nutrient-enriched nanopure deionized water

Conductivity Control: Laboratory water spiked with a small amount of seawater,

raising the conductivity level to match the sample water.

Sample Treatment: Filtered to 0.45 µm (per EPA protocol requirements; however, a

100% unfiltered sample was also tested for comparison)

Test Protocol: EPA/ 821/R-02/013, Oct. 2002

Test Data Analysis: CETIS, version 1.025B statistical software

Ceriodaphnia Chronic Test Specifications

6/13/06 - 6/20/06 Test Period:

Ceriodaphnia dubia (water flea) Test Organism: Test Organism Source/Age: In-house culture / <8 hours old

Test Concentrations: 100% undiluted water sample; Lab and Conductivity Controls

Lab Control Water: EPA laboratory freshwater (diluted mineral water)

Conductivity Control: Laboratory water spiked with a small amount of seawater,

raising the conductivity level to match the sample water.

EPA/ 821/R-02/013, Oct. 2002 Test Protocol:

Test Data Analysis: CETIS, version 1.025B statistical software

Results

Statistical results for both sites are summarized in Tables 1 and 2. Table 3 provides a detailed summary of test results, for both sites. Table 3 also provides data on the Conductivity Controls that were conducted with the *Ceriodaphnia* and *Selenastrum*. Both samples were received with conductivity levels exceeding 2,000 μ S/cm, a level at which freshwater organisms can be stressed. A Conductivity Control was tested concurrently for comparison purposes. However, all statistical analyses were performed comparing the sample to the Lab Control. The Rose Canyon Creek sample did result in a toxic response with regards to the *Ceriodaphnia* reproduction endpoint. However, the Conductivity Control also showed toxicity with the *Ceriodaphnia* reproduction. Because of the similar response, the high conductivity level in the Rose Canyon Creek sample (\sim 4,600 μ S/cm) was probably the primary driver of toxicity.

No statistically significant difference from the lab control was detected for either sample with the *Selenastrum* test. The *Selenastrum* test met the minimum control criteria for growth (mean density must exceed 1.0×10^6 cells/ml), however the variability between replicates was greater than the excepted amount required under the protocol (< 20% CV). The final results for the 2 samples are still deemed worthy of reporting, since both samples resulted in *Selenastrum* growth which exceeded the control growth, indicating that neither sample produced a toxic response. Also, there was much lower variability between replicates of the 2 sample sites, which further supports our judgment that neither sample is toxic with *Selenastrum*. Bench datasheets and statistical analyses for both test species are presented in Appendices A, and B. Sample information upon receipt can be found in Appendix C, and the chain-of-custody forms can be found in Appendix D.

Table 1. Summary of Statistical Results: Rose Canyon Creek 4 (RCC4)

Test Species & Endpoint	NOEC (% sample)	Toxic Response	TU value
Selenastrum: Cell Density Growth	100	No	1.0
Ceriodaphnia: Survival Reproduction	100 < 100	No Yes	1.0 > 1.0

Table 2. Summary of Statistical Results: Escondido Creek 5 (EC5)

Test Species & Endpoint	NOEC (% sample)	Toxic Response	TU value
Selenastrum: Cell Density Growth	100	No	1.0
Ceriodaphnia: Survival Reproduction	100 100	No No	1.0 1.0

NOEC = No Observed Effect Concentration

Toxic Response: whether there was a statistical difference compared to the Lab Control, indicating toxicity

SUMMARY TOXICITY REPORT
Test ID Nos.: 0606-S063, 064
Site Names: RCC4 and EC5
Submitted: June 30, 2006

Table 3. Detailed Results of Chronic Testing

	Selenastrum	Ceriodaphnia	
Sample Site Name (100%)	Algal Growth (cells/ml)	Mean Survival (%)	Mean Reproduction (# produced)
Lab Control	1,100,000	100	23.3
Conductivity Control (RCC4)	530,000	80	5.9 *
Rose Canyon Creek 4	1,020,000	100	16.7 *
Conductivity Control (EC5)	945,000	100	17.7 *
Escondido Creek 5	2,120,000	100	28.7

Notes: 1) An asterisk (*) indicates a significant difference compared to the Lab Control, indicating a toxic response.

²⁾ The Conductivity Control has a conductivity matching that of its corresponding sample.