



Chris Linneman  
Summers Engineering, Inc.  
887 N. Irwin Street  
Hanford, CA 93230

February 23, 2023

Chris:

I have enclosed our report “Evaluation of the Toxicity of Grasslands Bypass Project Ambient Water Sample: Event 94” for the sample that was collected January 26, 2023. The results of this testing are summarized below.

Toxicity summary for Grasslands Bypass Project ambient water samples.			
Sample Station	Toxicity relative to the Lab Control treatment?		
	<i>Selenastrum capricornutum</i>	<i>Daphnia magna</i>	Fathead Minnow
	Growth	Survival	Survival
Site D	No	No	No

**Chronic Toxicity of Grasslands Bypass Project Ambient Waters to *Selenastrum capricornutum***

There were **no** significant reductions in algal growth in the Grasslands Bypass Project ambient water sample.

**Acute Toxicity of Grasslands Bypass Project Ambient Waters to *Daphnia magna***

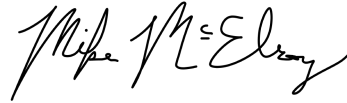
There were **no** significant reductions in survival in the Grasslands Bypass Project ambient water sample.

**Acute Toxicity of Grasslands Bypass Project Ambient Waters to Fathead Minnows**

There were **no** significant reductions in survival in the Grasslands Bypass Project ambient water sample.

If you have any questions regarding the performance and interpretation of these tests, feel free to contact us at (707) 207-7760.

Sincerely,



Mike McElroy  
Senior Project Manager



Pacific EcoRisk is accredited in accordance with NELAP (ORELAP ID 4043). Pacific EcoRisk certifies that the test results reported herein conform to the most current NELAP requirements for parameters for which accreditation is required and available. Any exceptions to NELAP requirements are noted, where applicable, in the body of the report. This report shall not be reproduced, except in full, without the written consent of Pacific EcoRisk. This testing was performed under Lab Order 22166.





Chris Linneman  
Summers Engineering, Inc.  
887 N. Irwin Street  
Hanford, CA 93230

March 20, 2023

Chris:

I have enclosed our report “Evaluation of the Toxicity of Grasslands Bypass Project Ambient Water Sample: Event 95” for the sample that was collected February 22, 2023. The results of this testing are summarized below.

Toxicity summary for Grasslands Bypass Project ambient water samples.			
Sample Station	Toxicity relative to the Lab Control treatment?		
	<i>Selenastrum capricornutum</i>	<i>Daphnia magna</i>	Fathead Minnow
	Growth	Survival	Survival
Site D	No	No	No

**Chronic Toxicity of Grasslands Bypass Project Ambient Waters to *Selenastrum capricornutum***

There were no significant reductions in algal growth in the Grasslands Bypass Project ambient water sample.

**Acute Toxicity of Grasslands Bypass Project Ambient Waters to *Daphnia magna***

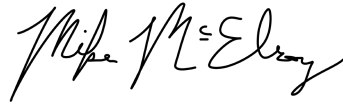
There were no significant reductions in survival in the Grasslands Bypass Project ambient water sample.

**Acute Toxicity of Grasslands Bypass Project Ambient Waters to Fathead Minnows**

There were no significant reductions in survival in the Grasslands Bypass Project ambient water sample.

If you have any questions regarding the performance and interpretation of these tests, feel free to contact us at (707) 207-7760.

Sincerely,



Mike McElroy  
Senior Project Manager



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Chris Linneman  
Summers Engineering, Inc.  
887 N. Irwin St  
Hanford, CA 93230

April 5, 2023

Chris:

I have enclosed our report “Evaluation of the Toxicity of Grasslands Bypass Project Ambient Waters” for the samples that were collected March 7, 2023. The results of this testing are summarized below.

Toxicity summary for the Grasslands Bypass Project ambient water sample.	
Sample Station	Toxicity relative to the Lab Water Control treatment?
	<i>Hyalella</i> Survival
GBP-B3-TE	No
GBP-D-TE	No
GBP-R-TE	No

**Acute Toxicity of Grasslands Bypass Project Ambient Waters to *Hyalella azteca***

There were no significant reductions in survival in the Grasslands Bypass Project ambient water samples.

If you have any questions regarding the performance and interpretation of these tests, feel free to contact us at (707) 207-7760.

Sincerely,

Mike McElroy  
Sr. Project Manager



Pacific EcoRisk is accredited in accordance with NELAP (PJ Labs ID 86138). Pacific EcoRisk certifies that the test results reported herein conform to the most current NELAP requirements for parameters for which accreditation is required and available. Any exceptions to NELAP requirements are noted, where applicable, in the body of the report. This report shall not be reproduced, except in full, without the written consent of Pacific EcoRisk. This testing was performed under Lab Order 22166.



Chris Linneman  
Summers Engineering, Inc.  
887 N. Irwin Street  
Hanford, CA 93230

April 5, 2023

Chris:

I have enclosed our report “Evaluation of the Toxicity of Grasslands Bypass Project Ambient Water Sample: Event 96” for the sample that was collected March 7, 2023. The results of this testing are summarized below.

Toxicity summary for Grasslands Bypass Project ambient water samples.			
Sample Station	Toxicity relative to the Lab Control treatment?		
	<i>Selenastrum capricornutum</i>	<i>Daphnia magna</i>	Fathead Minnow
	Growth	Survival	Survival
Site D	No	No	No
Site B3	No		No
Site F	No		No
Site R	No		No

**Chronic Toxicity of Grasslands Bypass Project Ambient Waters to *Selenastrum capricornutum***

There were **no** significant reductions in algal growth in the Grasslands Bypass Project ambient water samples.

**Acute Toxicity of Grasslands Bypass Project Ambient Waters to *Daphnia magna***

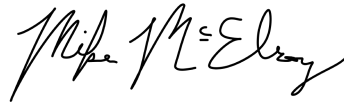
There were **no** significant reductions in survival in the Grasslands Bypass Project ambient water sample.

**Acute Toxicity of Grasslands Bypass Project Ambient Waters to Fathead Minnows**

There were **no** significant reductions in survival in the Grasslands Bypass Project ambient water samples.

If you have any questions regarding the performance and interpretation of these tests, feel free to contact us at (707) 207-7760.

Sincerely,



Mike McElroy  
Senior Project Manager



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