

Transmittal
Stantec

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To:	Chris Haydon	From:	Martina Rendas
Office:	Sea to Sky Innovations	<input type="checkbox"/>	For Your Information
Date:	June 23, 2005	<input type="checkbox"/>	For Your Approval
File:	Re: Chronic Ecotoxicity testing	<input type="checkbox"/>	For Your Review
		<input checked="" type="checkbox"/>	As Requested

Re: US EPA Test Acceptability Criteria for Sample SPC-909 Neutral

Dear Mr. Haydon

This letter is in response to your email dated June 20th 2005, regarding the US EPA test acceptability criteria for EPA/600/4-89/002.

The sample SPC-909 Neutral, was received by our lab on December 5, 2003 for chronic toxicity testing using *Ceriodaphnia dubia* and fathead minnows. Testing was initiated on December 8, 2003.

The chronic toxicity test method EPA/600/4-89/002 "Short Term Methods For Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" is the third edition of this method. In October 2002, the US EPA released a fourth edition of the test method, with the reference code of EPA-821-R-02-013. The chronic testing, initiated in December 2003, was conducted under the fourth edition of the US EPA test method listed above.

The *Ceriodaphnia dubia* Survival and Reproduction test for the sample SPC-909 Neutral met all required test conditions, which are listed on page two of the report. The test acceptability criteria for the *Ceriodaphnia dubia* test, while not outlined in the report were also met and are as follows:

- a) Test Criteria: "There must be at least 80% survival of all control organisms."
 SPC-909 Sample: 100% survival at the end of testing.
- b) Test Criteria: "An average of 15 or more young per surviving female in the control solutions."
 SPC-909 Sample: A mean of 24 neonates were produced per surviving female in the control group.

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- c) Test Criteria: "60% of surviving control females must produce three broods."
SPC-909 Sample: 90% of the control organisms produced three broods
(This information can be determined from the benchsheets, page 5 of the report)

The Fathead Minnow Survival and Growth test met all required test conditions (found on page two of the report) and test acceptability criteria. The test acceptability criteria for the Fathead test is outlined below:

- a) Test Criteria: "There must be at least 80% survival in the control"
SPC 909 Sample: 100% survival was reported for the control group for this test
- b) Test Criteria: "The average dry weight per surviving organism in the control must equal or exceed 0.25 mg."
SPC 909 Sample: The average dry weight per surviving organism in this test was 0.75 mg.

Therefore both the *Ceriodaphnia dubia* and Fathead minnow tests, conducted for sample SPC-909 Neutral are in compliance with the US EPA test acceptability criteria for test method EPA-821-R-02-013. If you have any other questions or concerns, please don't hesitate to contact us.

Sincerely,

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