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July 16, 2026

Lisa:

I have enclosed our report "Soil Toxicity Testing of Matter of Trust Hair Mat" for the sample prepared June 19, 2026. The results of this testing are summarized below:

Soil Toxicity of Hair Mat to *Eisenia fetida*

There was 100% survival at the 1000 mg Hair Mat/kg control soil, indicating that the Hair Mat was not toxic to earthworm survival.

If you have any questions regarding this testing or the report, please call me at (707) 207-7760.

Sincerely,

Seokhyun Jeon
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 41338.

Soil Toxicity Testing of Matter of Trust Hair Mat

Test initiated June 20, 2026

Prepared For:

Matter of Trust
99 Saint Germain Ave.
San Francisco, CA 94114

Prepared By:

Pacific EcoRisk
2250 Cordelia Road
Fairfield, CA 94534

July 2026



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1. INTRODUCTION

Matter of Trust contracted Pacific EcoRisk (PER) to evaluate the toxicity of Hair Mat in soil. This evaluation consisted of performing a 14-day survival limit test on Hair Mat mixed with artificial soil at a concentration of 1,000 mg/kg of artificial/control soil. The limit ratio was identified using “Ecological Effects Test Guidelines, OCSPP 850.3100: Earthworm Subchronic Toxicity Test” (EPA 712-C-016). This report describes the performance and results of this testing.

2. TOXICITY TEST PROCEDURES

This testing followed the guidelines established in "Standard Guide for Conducting Laboratory Soil Toxicity or Bioaccumulation Tests with the Lumbricid Earthworm *Eisenia fetida* and the Enchytraeid Potworm *Enchytraeus albidus*" (ASTM E1676-12).

2.1 Sample Receipt, Preparation, and Handling

Hair Mats were submitted to PER laboratory in Fairfield, CA, for toxicity testing. Pursuant to the limit concentration set by U.S. EPA, 200 mg of Hair Mat was composited with 200 g of artificial soil to prepare the test treatment of 1,000 mg/kg artificial soil.

2.2 Soil Toxicity Testing with the Earthworm *Eisenia fetida*

The soil toxicity test with *E. fetida* consists of exposing the earthworms to soil for 14 days, after which effects on survival are evaluated. The specific procedures used in this test are described below.

The *E. fetida* used in these tests were obtained from a commercial supplier (Carolina Biological Supply, Burlington, NC). Upon receipt at the laboratory, the earthworms were maintained in bedding material for two weeks prior to test initiation to ensure that they were healthy prior to use in testing.

The Lab Control treatment consisted of artificial soil comprised of 10% *Sphagnum* peat moss (passed through a 2 mm screen), 20% Kaolin clay (particle size under 40 µm), and 70% silica sand (Grade 70) by weight, which was pH adjusted to a target of 7.0 ± 0.5 using CaCO_3 .

Four test replicates per treatment were prepared one day prior to test initiation. Each replicate container consisted of a 500-mL glass jar with lid with a single 1-2 mL hole in the middle to allow for air exchange. For each replicate, 200 mg of Hair Mat was cut, weighed, and pulled apart to composite into 200 g of artificial soil. The Lab Control replicates consisted only of

200 g of artificial soil. The test chambers were then placed in a temperature-controlled room at 19-25°C initiation to allow for acclimation to the test temperature.

On the day of test initiation, the percent moisture, temperature, pH, and conductivity of each soil was determined. A total of 10 worms were randomly selected from the culture, with any debris removed, and then placed in clean plastic transfer containers. This was repeated until there were sufficient transfer containers for the total number of replicates to be loaded each day. The organisms were then loaded into the rest replicates using a random block design. The replicates were then returned to the temperature-controlled room at 20±2°C under continuous lighting.

Each day, for the following 13 days, temperature for each treatment was measured and each test replicate was examined with dead worms removed and mortalities recorded.

After 14 days exposure, temperature, pH, and conductivity of each soil was determined. Each replicate was inverted over a sorting tray, and the number of live worms was recorded. The resulting survival data were then analyzed to evaluate any impairment due to the ambient soils. Statistical analyses were performed using CETIS™ (TidePool Scientific Software, McKinleyville, CA).

3. RESULTS

3.1 Effects of Hair Mat in Soil on *Eisenia fetida* Survival

The results of this test are summarized in Table 1. The test data and summary of statistical analyses for this test are presented in Appendix A.

Table 1. Effects of Hair Mat in soil on <i>Eisenia fetida</i> survival.	
Treatment	Mean % Normal Embryo Development
Lab control	97.5
1000 mg Hair Mat/kg control soil	100
Summary of Statistics	
No Observed Effect Concentration	100%

4. SUMMARY AND CONCLUSIONS

An evaluation of the toxicity of Hair Mat in soil was performed on June 20, 2026. The results of this testing follow:

Soil Toxicity of Hair Mat to *Eisenia fetida*

There was 100% survival at the 1000 mg Hair Mat/kg control soil, indicating that the Hair Mat was not toxic to earthworm survival

4.1 QA/QC Summary

Test Conditions – Test conditions (pH, temperature, etc.) were within acceptable limits. Analyses were performed according to laboratory Standard Operating Procedures.

Negative Control – The organism responses at the Lab Control treatment were within acceptable limits.

Appendix A

Test Data and Summary of Statistics for the Evaluation of the Soil Toxicity of Hair Mat to *Eisenia fetida*

CETIS Summary Report

Report Date: 10 Jul-26 11:04 (p 1 of 1)
Test Code/ID: 114330 / 16-5878-4766

Eisenia 14-d Survival and Weight Loss Test

Pacific EcoRisk

Batch ID: 18-6501-7487	Test Type: Survival	Analyst: Seokhyun Jeon
Start Date: 20 Jun-26 14:00	Protocol: ASTM E1676-12 (2012)	Diluent: Not Applicable
Ending Date: 04 Jul-26 08:48	Species: Eisenia fetida	Brine: Not Applicable
Test Length: 13d 19h	Taxon: Oligochaeta	Source: Carolina Biological Supply Age: na

Sample ID: 11-5485-0081	Code: HAIR	Project: 41338
Sample Date: 20 Jun-26 14:00	Material: Control Sediment	Source: Hair Mat
Receipt Date: 20 Jun-26 14:00	CAS (PC):	Station: Hairs
Sample Age: --- (22.1 °C)	Client: Matter of Trust	

Single Comparison Summary

Analysis ID	Endpoint	Comparison Method	P-Value	Comparison Result
00-9032-3307	Survival Rate	Wilcoxon Rank Sum Two-Sample Test	1.0000	100% passed survival rate

Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	LW	4	0.975	0.895	1.000	0.900	1.000	0.025	0.050	5.13%	0.00%
100		4	1.000	1.000	1.000	1.000	1.000	0.000	0.000	0.00%	-2.56%

Survival Rate Detail

MD5: 04CBE5AA773CB35FA751DB9C39F9C09D

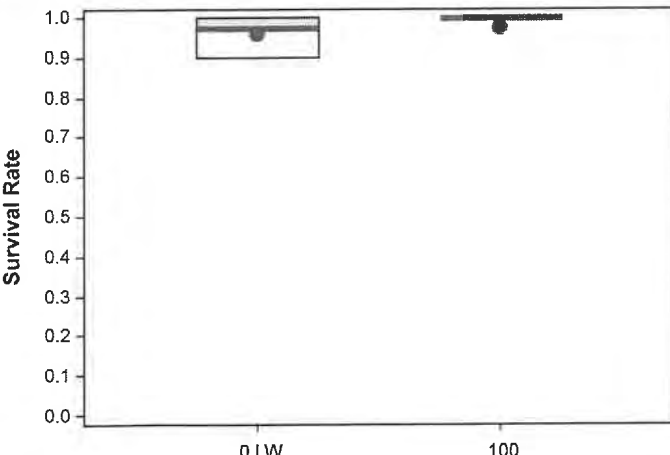
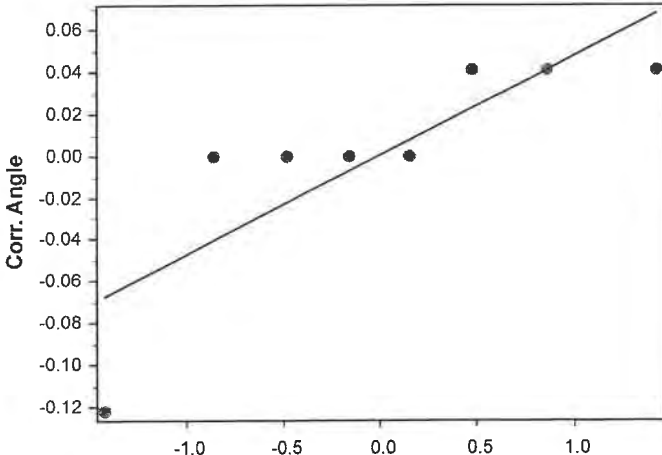
Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4
0	LW	1.000	1.000	1.000	0.900
100		1.000	1.000	1.000	1.000

Survival Rate Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4
0	LW	10/10	10/10	10/10	9/10
100		10/10	10/10	10/10	10/10

CETIS Analytical Report

Report Date: 10 Jul-26 11:04 (p 1 of 1)
Test Code/ID: 114330 / 16-5878-4766

Eisenia 14-d Survival and Weight Loss Test										Pacific EcoRisk	
Analysis ID: 00-9032-3307			Endpoint: Survival Rate				CETIS Version: CETIS v2.1.6				
Analyzed: 10 Jul-26 11:04			Analysis: Nonparametric-Two Sample				Status Level: 1				
Edit Date: 10 Jul-26 0:00			MD5 Hash: 04CBE5AA773CB35FA751DB9C39F9C09				Editor ID: 006-243-107-9				
Data Transform		Alt Hyp		Comparison Result						PMSD	
Angular (Corrected)		C > T		100% passed survival rate endpoint						5.20%	
Wilcoxon Rank Sum Two-Sample Test											
Control	vs	Conc-%	df	Test Stat	Critical	Ties	P-Type	P-Value	Decision(α:5%)		
Lab Water Control		100	6	20	---	1	Exact	1.0000	Non-Significant Effect		
ANOVA Table											
Source		Sum Squares		Mean Square		DF	F Stat	P-Value	Decision(α:5%)		
Between		0.0033199		0.0033199		1	1	0.3559	Non-Significant Effect		
Error		0.0199195		0.0033199		6					
Total		0.0232394				7					
ANOVA Assumptions Tests											
Attribute		Test		Test Stat	Critical	P-Value	Decision(α:1%)				
Variance		Variance Ratio F Test					Indeterminate				
Distribution		Shapiro-Wilk W Normality Test		0.706	0.645	0.0027	Non-Normal Distribution				
Survival Rate Summary											
Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	LW	4	0.975	0.895	1.000	1.000	0.900	1.000	0.025	5.13%	0.00%
100		4	1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.00%	-2.56%
Angular (Corrected) Transformed Summary											
Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	LW	4	1.370	1.240	1.500	1.410	1.250	1.410	0.041	5.94%	0.00%
100		4	1.410	1.410	1.410	1.410	1.410	1.410	0.000	0.00%	-2.97%
Graphics											
											
Survival Rate						Corr. Angle					
Conc-%						Rankits					

14-day *Eisenia fetida* Acute Test Data

Client: **Matter of Trust**
 Test Material: **Control Sediment**
 Test ID #: 114330 Project #: 41338

Organism Log#: 15468 Age: Adult
 Organism Supplier: CBS
 Sample ID#: —

		Day 0 # Live Organisms		Rep A	Rep B	Rep C	Rep D	Sign-Off	
				10	10	10	10	Initials: <u>KE</u>	Confirmation: <u>ZQ</u>
Day	Date	Temperature		Observed Mortality					
		°C	Meter ID	Rep A	Rep B	Rep C	Rep D		
0	6/20/26	22.1	209A	0	0	0	0	Time: <u>1400</u>	Initials: <u>KE</u>
1	6/21/26	22.0	209A	0	0	0	0	Time: <u>0900</u>	Initials: <u>TK</u>
2	6/22/26	22.0	191A	0	0	0	0	Time: <u>1221</u>	Initials: <u>TF</u>
3	6/23/26	22.1	119A	0	0	0	0	Time: <u>0939</u>	Initials: <u>TF</u>
4	6/24/26	21.5	154A	0	0	0	0	Time: <u>1520</u>	Initials: <u>DAC</u>
5	6/25/26	22.4	191A	0	0	0	0	Time: <u>1530</u>	Initials: <u>ZQ</u>
6	6/26/26	22.4	214A	0	0	0	1	Time: <u>1531</u>	Initials: <u>TF</u>
7	6/27/26	22.3	209A	0	0	0	0	Time: <u>1340</u>	Initials: <u>ZQ</u>
8	6/28/26	22.3	197A	0	0	0	0	Time: <u>1115</u>	Initials: <u>TF</u>
9	6/29/26	22.3	191A	0	0	0	0	Time: <u>1031</u>	Initials: <u>TF</u>
10	6/30/26	22.2	197A	0	0	0	0	Time: <u>0900</u>	Initials: <u>TF</u>
11	7/1/26	22.2	183A	0	0	0	0	Time: <u>1516</u>	Initials: <u>TF</u>
12	7/2/26	22.3	183A	0	0	0	0	Time: <u>1115</u>	Initials: <u>TK</u>
13	7/3/26	21.8	176A	0	0	0	0	Time: <u>0850</u>	Initials: <u>KE</u>
14	7/4/26	22.6	179A	0	0	0	0	Time: <u>0848</u>	Initials: <u>TF</u>
		Day 14 # Live Organisms		10	10	10	9	Initials: <u>TF</u>	

14-day *Eisenia fetida* Soil Acute Test Data

Client: Matter of Trust Org Log#: 15468 Age: Adult
 Test Material: Control Soil Organism Supplier: CBS
 Test ID#: 114330 Project #: 41338 Sample ID #: —

Day	Date	Quality Control Measurements				Sign-Off
			pH	Conductivity (μS/cm)	% Moisture	
0	6/20/26		6.74	1022	44.07	Time: 1250 Meas. Initials: KF
	Meter ID:		pH 26	EC 12	BAL: 07 OVN: 01	
7	6/27/26		6.50	1089	35.50	Time: 1130 Meas. Initials: ZQ
	Meter ID:		PH 24	EC 12	BAL: 04 OVN: 01	
14	7/4/26		6.62	1062	37.64	Time: 1200/130 Meas. Initials: TF/
	Meter ID:		PH 25	EC 12	BAL: 07 OVN: 01	

14-day *Eisenia fetida* Acute Test Data

Client: Matter of Trust Organism Log#: 15468 Age: Adult
 Test Material: Hair Mat Organism Supplier: CBS
 Test ID #: 114330 Project #: 41338 Sample ID#: —

		Day 0 # Live Organisms		Rep A	Rep B	Rep C	Rep D	Sign-Off	
				10	10	10	10	Initials: <u>KF</u>	Confirmation: <u>ZQ</u>
Day	Date	Temperature		Observed Mortality					
		°C	Meter ID	Rep A	Rep B	Rep C	Rep D		
0	6/20/26	22.1	209A	0	0	0	0	Time: <u>1400</u>	Initials: <u>KF</u>
1	6/21/26	21.9	209A	0	0	0	0	Time: <u>0900</u>	Initials: <u>TK</u>
2	6/22/26	21.7	191A	0	0	0	0	Time: <u>1271</u>	Initials: <u>TF</u>
3	6/23/26	22.5	191A	0	0	0	0	Time: <u>0939</u>	Initials: <u>TF</u>
4	6/24/26	22.0	154A	0	0	0	0	Time: <u>1520</u>	Initials: <u>OK</u>
5	6/25/26	22.4	191A	0	0	0	0	Time: <u>1530</u>	Initials: <u>ZQ</u>
6	6/26/26	22.8	214A	0	0	0	0	Time: <u>1531</u>	Initials: <u>TF</u>
7	6/27/26	22.4	209A	0	0	0	0	Time: <u>1240</u>	Initials: <u>ZQ</u>
8	6/28/26	22.8	197A	0	0	0	0	Time: <u>1115</u>	Initials: <u>TK</u>
9	6/29/26	22.7	191A	0	0	0	0	Time: <u>1031</u>	Initials: <u>TF</u>
10	6/30/26	22.5	197A	0	0	0	0	Time: <u>0900</u>	Initials: <u>TF</u>
11	7/1/26	22.6	183A	0	0	0	0	Time: <u>1516</u>	Initials: <u>TF</u>
12	7/2/26	22.6	183A	0	0	0	0	Time: <u>1115</u>	Initials: <u>TK</u>
13	7/3/26	22.0	176A	0	0	0	0	Time: <u>0850</u>	Initials: <u>KF</u>
14	7/4/26	22.4	179A	0	0	0	0	Time: <u>0848</u>	Initials: <u>TF</u>
		Day 14 # Live Organisms		10	10	10	10	Initials: <u>TF</u>	

14-day *Eisenia fetida* Soil Acute Test Data

Client: Matter of Trust Org Log#: 15468 Age: Adult
 Test Material: Hair Mat Organism Supplier: CBS
 Test ID#: 114330 Project #: 41338 Sample ID #: -

Day	Date	Quality Control Measurements				Sign-Off
			pH	Conductivity (μ S/cm)	% Moisture	
0	6/20/26		6.73	994	44.07	Time: 1256 Meas. Initials: KF
	Meter ID:		PH26	EC12	BAL: 07 OVN: 01	
7	6/27/26		6.50	1000	34.14	Time: 1340 Meas. Initials: ZJ
	Meter ID:		PH24	EC12	BAL: 04 OVN: 01	
14	7/4/26		6.62	1088	39.67	Time: 1200/1340 Meas. Initials: TF/
	Meter ID:		PH25	EC12	BAL: 07 OVN: 01	