

LABORATORY REPORT

November 25, 2009

Stewart Averett
EcoActive Surfaces, Inc.
551-D NE 27th Street
Pompano Beach, FL 33064

RE: OxiTitan VLR

Dear Stewart:

Enclosed are the results of the samples submitted to our laboratory on November 11, 2009. For your reference, these analyses have been assigned our service request number P0903862.

All analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein. Your report contains 7 pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; Department of the Navy (NFESC); Pennsylvania Registration No. 68-03307; TX Commission of Environmental Quality, NELAP ID T104704413-09-TX; Minnesota Department of Health, Certificate No. 11495AA. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

Columbia Analytical Services, Inc.

Kelly Horiuchi
Project Manager

Client: EcoActive Surfaces, Inc.
Project: OxiTitan VLR

CAS Project No: P0903862

CASE NARRATIVE

The samples were received intact and under chain of custody on November 11, 2009 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Sample Preparation and Formaldehyde Analysis

The study consisted of four one-liter glass static chambers; blank, control, treated (containing a 3" square piece of material) and un-treated (containing a 3" square piece of material). The chambers were held at room temperature, ambient lighting and 50% relative humidity for the duration of the 24 hour experiment. See Figure 1.

The control, treated and untreated chambers were exposed to approximately 4000ng of formaldehyde and samples from each chamber were collected at five temporal points (0, 1, 4, 7 and 24 hours). All of the samples were analyzed according to EPA Method TO-11A using high performance liquid chromatography (HPLC).

Figure 1:



The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.

Client: EcoActive Surfaces, Inc.
Project: Formaldehyde Odor Reduction

Service Request: P0903862

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
P0903862-001	Treated 0hr	11/7/09	00:00
P0903862-002	Treated 1hr	11/7/09	00:00
P0903862-003	Treated 4hr	11/7/09	00:00
P0903862-004	Treated 7hr	11/7/09	00:00
P0903862-005	Treated 24hr	11/7/09	00:00
P0903862-006	Untreated 0hr	11/7/09	00:00
P0903862-007	Untreated 1hr	11/7/09	00:00
P0903862-008	Untreated 4hr	11/7/09	00:00
P0903862-009	Untreated 7hr	11/7/09	00:00
P0903862-010	Untreated 24hr	11/7/09	00:00
P0903862-011	Blank	11/7/09	00:00

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: EcoActive Surfaces, Inc.

Work order: P0903862

Project: OxiTitan VLR

Sample(s) received on: 11/11/2009

Date opened: 11/11/2009

by: KHORIUCHI

Note: This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | Yes | No | N/A |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were sample containers properly marked with client sample ID? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2 Container(s) supplied by CAS ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Was a chain-of-custody provided? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Was the chain-of-custody properly completed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 Did sample container labels and/or tags agree with custody papers? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 7 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Cooler Temperature _____ °C Blank Temperature _____ °C | | | |
| 10 Was a trip blank received? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Trip blank supplied by CAS: _____ | | | |
| 11 Were custody seals on outside of cooler/Box? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were custody seals on outside of sample container? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12 Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 13 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Do they contain moisture? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 14 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH*	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P0903862-001.01	1 each Plastic Bag					
P0903862-001.02	1 each Plastic Bag					
P0903862-002.01	1 each Plastic Bag					
P0903862-002.02	1 each Plastic Bag					
P0903862-003.01	1 each Plastic Bag					
P0903862-003.02	1 each Plastic Bag					

Explain any discrepancies: (include lab sample ID numbers):

Chain of Custody is missing date/time collected

COC missing analysis.

*Required pH: Phenols/COD/NH3/TOC/TOX/NO3+NO2/TKN/T.PHOS, H2SO4 (pH<2); Metals, HNO3 (pH<2); CN (NaOH or NaOH/Asc Acid) (pH>12);

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: EcoActive Surfaces, Inc.
Client Project ID: Formaldehyde Odor Reduction

CAS Project ID: P0903862

Formaldehyde

Test Code: EPA Method TO-11A
Instrument ID: HP1050/UV_Vis 360/LC2
Analyst: Madeleine Dangazyan
Sampling Media: Solid
Test Notes: BC

Date(s) Collected: 11/7/09
Date Received: 11/11/09
Date Analyzed: 11/17/09
Desorption Volume: 1.0 ml

Time	Blank ng/Sample	Control ng/Sample	Untreated ng/Sample	Treated ng/Sample	Blank ppmV	Control ppmV	Untreated ppmV	Treated ppmV	Data Qualifier
0 Min	ND	4061	1702	1880	ND	165.39	69.32	76.56	
1 Hour	ND	5966	2237	1345	ND	242.97	91.10	54.78	
4 Hour	ND	5688	1484	975	ND	231.65	60.44	39.71	
7 Hour	ND	5261	1317	869	ND	214.26	53.64	35.39	
24 Hour	ND	3918	689	480	ND	159.56	28.06	19.55	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

BC = Results reported are not blank corrected.