

REPORT NO.  
F12165-6006  
ACCOUNT NUMBER  
63512

# A & L GREAT LAKES LABORATORIES, INC.

3505 Conestoga Drive • Fort Wayne, IN 46808 • Phone 260-483-4759 • Fax 260-483-5274  
www.algreatlakes.com • lab@algreatlakes.com



QUALITY ANALYSES FOR INFORMED DECISIONS

TO: ANGELINA-NECHES RIVER AUTHOR.  
PO BOX 387  
LUFKIN, TX 75902-0387

COPY: AL RATTIE

STA

ATTN: KELLEY HOLCOMB

LAB NUMBER: 60829  
SAMPLE ID: STOCKPILE 212

## COMPOST ANALYSIS REPORT

DATE SAMPLED: 06/12/2012

DATE RECEIVED: 06/13/2012

DATE REPORTED: 06/28/2012 PAGE: 1

PARAMETER	UNIT	ANALYSIS RESULT	DRY BASIS RESULT	ANALYSIS METHOD
Moisture @ 70 C	%	43.71		TMECC 03.09-A
Dry Matter	%	56.29		TMECC 03.09-A
Total Nitrogen (N)	%	1.17	2.07	TMECC 04.02-D
Phosphorus (P)	%	0.53	0.95	TMECC 04.03-A
Phosphate (P205)	%	1.23	2.18	TMECC 04.03-A
Potassium (K)	%	0.16	0.29	TMECC 04.04-A
Potash (K2O)	%	0.20	0.35	TMECC 04.04-A
Magnesium (Mg)	%	0.10	0.18	TMECC 04.05-MG
Calcium (Ca)	%	1.27	2.26	TMECC 04.05-CA
Arsenic	mg/kg	2.90	5.16	SW846-6020 04.06-As
Cadmium	mg/kg	0.162	0.287	SW846-6020 04.06-Cd
Chromium	mg/kg	7.6	13.5	SW846-6020 04.06-Cr
Copper	mg/kg	136	242	SW846-6020 04.06-Cu

TMECC - Test Methods for the Examination of Composting and Compost, The U.S. Composting Council.

Report Approved By:

Lois K. Parker - President

Approval Date: 6/28/2012

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PARAMETER	UNIT	ANALYSIS RESULT	DRY BASIS RESULT	ANALYSIS METHOD
Mercury	mg/kg	0.222	0.394	SW846-6020 04.06-Hg
Molybdenum	mg/kg	1.71	3.03	SW846-6020 04.06-Mo
Nickel	mg/kg	5.49	9.75	SW846-6020 04.06-Ni
Lead	mg/kg	11.5	20.4	SW846-6020 04.06-Pb
Selenium	mg/kg	1.59	2.83	SW846-6020 04.06-Se
Zinc	mg/kg	360	639	SW846-6020 04.06-Zn
pH	-	7.4		TMECC 04.11-A
Soluble Salts	dS/m	2.05		TMECC 04.10-A
Fecal Coliform/MPN	MPN/g dry		0	SM(20th)-9221E TMECC
Organic Matter by LOI @ 550C	%	30.57	54.30	TMECC 05.07-A
Organic Carbon by LOI @ 550C	%	15.28	27.15	Estimated
Carbon:Nitrogen Ratio (C:N)	-	13.1:1	13.1:1	TMECC 05.02-A
Germination - Emergence	%	100		TMECC 05.05-A

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DATE SAMPLED: 06/12/2012

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DATE REPORTED: 06/28/2012 PAGE: 3

PARAMETER	UNIT	ANALYSIS RESULT	DRY BASIS RESULT	ANALYSIS METHOD
Germination - Vigor	%	33		TMECC 05.05-A
Ave Ht of Seedlings in Control	inches	3.4		TMECC 05.05-A
Ave Ht of Seedlings in Compost	inches	2.6		TMECC 05.05-A
Respiration - CO <sub>2</sub> -C/g TS	mg CO <sub>2</sub> -C / g TS/Day		1	TMECC 05.08-B
Respiration - CO <sub>2</sub> -C/g OM	mg CO <sub>2</sub> -C / g OM/Day		1	TMECC 05.08-B
Compost Stability Index	-		Very Stable	TMECC 05.08
Retained on U.S. 2-inch Sieve	%		0.00	TMECC 02.02-B
Retained on U.S. 1-inch Sieve	%		0.00	TMECC 02.02-B
Retained on U.S. 5/8-inch	%		0.00	TMECC 02.02-B
Retained on U.S. 3/8-inch	%		3.26	TMECC 02.02-B
Retained on U.S. 1/4-inch	%		8.99	TMECC 02.02-B
Retained on U.S. 5/32-inch	%		17.31	TMECC 02.02-B



*Sherry Laboratories - Daleville*  
9301 Innovation Drive  
Daleville, IN 47334  
TEL: 765-378-4103 FAX: 765-378-4109  
Website: [www.Sherrylabs.com](http://www.Sherrylabs.com)

June 27, 2012

Julie Bruggner  
A&L Laboratories  
3505 Conestoga Drive  
Ft. Wayne, Indiana 46808  
TEL: (260) 483-4759  
FAX

RE: F12165-6006 Compost for 503 + Cr 60829

Order No.: 12062546

Dear Julie Bruggner:

Sherry Laboratories Indiana, LLC received 1 sample(s) on 6/20/2012 for the analyses presented in the following report.

Except as noted in the Case Narrative, all Primary drinking water standards that were tested, were acceptable. Please review the enclosed Primary and Secondary drinking water standards summary that follows this page.

Associated quality control data was within laboratory defined or method specified acceptance limits except as noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

John Rigdon  
Lab Director  
9301 Innovation Drive  
Daleville, IN 47334

Original



Sherry Laboratories - Daleville  
 9301 Innovation Drive  
 Daleville, IN 47334  
 TEL: 765-378-4103 FAX: 765-378-4109  
 Website: [www.Sherrylabs.com](http://www.Sherrylabs.com)

# Analytical Report

(continuous)

WO#: 12062546

Date Reported: 6/27/2012

CLIENT: A&L Laboratories

Lab Order: 12062546

Project: F12165-6006 Compost for 503 + Cr 60829

Lab ID: 12062546-001

Collection Date:

Client Sample ID: 60829

Matrix: COMPOST

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**503 METALS**

**SW6020**

Analyst: CXC

**METALS IN SOLIDS BY ICP-MS**

Arsenic	5.11	0.257		mg/Kg	5	6/22/2012 2:03:24 PM
Cadmium	0.284	0.251		mg/Kg	5	6/22/2012 2:03:24 PM
Chromium	13.4	0.373		mg/Kg	5	6/22/2012 2:03:24 PM
Copper	240	4.83		mg/Kg	50	6/22/2012 2:03:24 PM
Lead	20.2	0.315		mg/Kg	5	6/22/2012 2:03:24 PM
Mercury	0.390	0.297		mg/Kg	5	6/22/2012 2:03:24 PM
Molybdenum	3.00	0.271		mg/Kg	5	6/22/2012 2:03:24 PM
Nickel	9.65	0.260		mg/Kg	5	6/22/2012 2:03:24 PM
Selenium	2.80	0.585		mg/Kg	5	6/22/2012 2:03:24 PM
Zinc	633	29.8		mg/Kg	50	6/22/2012 2:03:24 PM

**Qualifiers:**

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Original

12-06-2546

# A & L GREAT LAKES LABORATORIES, INC.

3505 Conestoga Dr. • Fort Wayne, Indiana 46808-4413 • Phone (260)483-4759 • FAX (260)483-5274



## Outside Service Request

Ship To: Sherry Labs Shipping Date: 6-15-2012

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\_\_\_\_\_  
\_\_\_\_\_



P.O. No. F18165-6006  
(Please include this number on your report.)

Sample No.	Sample Type	Analysis Requested	Expected Level
60829	compost	503 metals + Cr	

### PLEASE REPORT ON AN AS-RECEIVED BASIS

Contact Person: Martin Snodgrass / Julie Bruggner  
[msnodgrass@algreatlakes.com](mailto:msnodgrass@algreatlakes.com),  
[jbruggner@algreatlakes.com](mailto:jbruggner@algreatlakes.com)

SAMPLES MEET  
ACCEPTANCE POLICY  
(Y) N

Phone: (260) 483-4759 • Fax: (260) 483-5274

Rec'd by: *[Signature]* 6/20/12 1730 via NDL Ambient 20°