

REPORT NO.
F12221-6016
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

FOR: STOCKPILE 213

COPY: AL RATTIE

STA

ATTN: KELLEY HOLCOMB

LAB NUMBER: 61551
SAMPLE ID: STOCKPILE 215

COMPOST ANALYSIS REPORT

DATE SAMPLED: 08/07/2012

DATE RECEIVED: 08/08/2012

DATE REPORTED: 08/21/2012 PAGE: 1

PARAMETER	UNIT	ANALYSIS RESULT	DRY BASIS RESULT	ANALYSIS METHOD
Moisture @ 70 C	%	28.26		TMECC 03.09-A
Dry Matter	%	71.74		TMECC 03.09-A
Total Nitrogen (N)	%	1.76	2.46	TMECC 04.02-D
Phosphorus (P)	%	1.02	1.42	TMECC 04.03-A
Phosphate (P205)	%	2.34	3.27	TMECC 04.03-A
Potassium (K)	%	0.29	0.40	TMECC 04.04-A
Potash (K2O)	%	0.34	0.48	TMECC 04.04-A
Magnesium (Mg)	%	0.17	0.23	TMECC 04.05-MG
Calcium (Ca)	%	1.61	2.25	TMECC 04.05-CA
Arsenic	mg/kg	3.21	4.47	SW846-6020 04.06-As
Cadmium	mg/kg	0.519	0.723	SW846-6020 04.06-Cd
Chromium	mg/kg	12.2	17.0	SW846-6020 04.06-Cr
Copper	mg/kg	176	246	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: 8/21/2012

REPORT NO.
F12221-6016
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

FOR: STOCKPILE 213

COPY: AL RATTIE

STA

ATTN: KELLEY HOLCOMB

LAB NUMBER: 61551
SAMPLE ID: STOCKPILE 215

COMPOST ANALYSIS REPORT

DATE SAMPLED: 08/07/2012

DATE RECEIVED: 08/08/2012

DATE REPORTED: 08/21/2012 PAGE: 2

PARAMETER	UNIT	ANALYSIS RESULT	DRY BASIS RESULT	ANALYSIS METHOD
Mercury	mg/kg	<0.426	< 0.594	SW846-6020 04.06-Hg
Molybdenum	mg/kg	2.44	3.40	SW846-6020 04.06-Mo
Nickel	mg/kg	10.3	14.4	SW846-6020 04.06-Ni
Lead	mg/kg	16.0	22.3	SW846-6020 04.06-Pb
Selenium	mg/kg	1.88	2.62	SW846-6020 04.06-Se
Zinc	mg/kg	423	589	SW846-6020 04.06-Zn
pH	-	7.6		TMECC 04.11-A
Soluble Salts	dS/m	2.88		TMECC 04.10-A
Fecal Coliform/MPN	MPN/g dry		0	SM(20th)-9221E TMECC
Organic Matter by LOI @ 550C	%	41.84	58.32	TMECC 05.07-A
Organic Carbon by LOI @ 550C	%	20.92	29.16	Estimated
Carbon:Nitrogen Ratio (C:N)	-	11.9:1	11.9:1	TMECC 05.02-A
Germination - Emergence	%	97		TMECC 05.05-A

REPORT NO.
F12221-6016
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

FOR: STOCKPILE 213

COPY: AL RATTIE

STA

ATTN: KELLEY HOLCOMB

LAB NUMBER: 61551
SAMPLE ID: STOCKPILE 215

COMPOST ANALYSIS REPORT

DATE SAMPLED: 08/07/2012

DATE RECEIVED: 08/08/2012

DATE REPORTED: 08/21/2012 PAGE: 3

PARAMETER	UNIT	ANALYSIS RESULT	DRY BASIS RESULT	ANALYSIS METHOD
Germination - Vigor	%		0	TMECC 05.05-A
Ave Ht of Seedlings in Control	inches	4.0		TMECC 05.05-A
Ave Ht of Seedlings in Compost	inches	2.1		TMECC 05.05-A
Respiration - CO ₂ -C/g TS	mg CO ₂ -C / g TS/Day		1	TMECC 05.08-B
Respiration - CO ₂ -C/g OM	mg CO ₂ -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	%		3.34	TMECC 02.02-B
Retained on U.S. 1/4-inch	%		8.76	TMECC 02.02-B
Retained on U.S. 5/32-inch	%		14.38	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

August 20, 2012

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

RE: F12221-6016 Compost for 503 + Cr 61551

Order No.: 12081644

Dear Julie Bruggner:

Sherry Laboratories Indiana, LLC received 1 sample(s) on 8/13/2012 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

Analytical Report

(continuous)

WO#: 12081644

Date Reported: 8/20/2012

CLIENT: A&L Laboratories

Lab Order: 12081644

Project: F12221-6016 Compost for 503 + Cr 61551

Lab ID: 12081644-001

Collection Date:

Client Sample ID: 61551

Matrix: COMPOST

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

503 METALS

SW6020

Analyst: **CXC**

METALS IN SOLIDS BY ICP-MS

Arsenic	4.28	0.515		mg/Kg	10	8/17/2012 9:26:00 AM
Cadmium	0.693	0.503		mg/Kg	10	8/17/2012 9:26:00 AM
Chromium	16.3	0.746		mg/Kg	10	8/17/2012 9:26:00 AM
Copper	236	0.967		mg/Kg	10	8/17/2012 9:26:00 AM
Lead	21.4	0.630		mg/Kg	10	8/17/2012 9:26:00 AM
Mercury	< 0.594	0.594		mg/Kg	10	8/17/2012 9:26:00 AM
Molybdenum	3.26	0.541		mg/Kg	10	8/17/2012 9:26:00 AM
Nickel	13.8	0.521		mg/Kg	10	8/17/2012 9:26:00 AM
Selenium	2.51	1.17		mg/Kg	10	8/17/2012 9:26:00 AM
Zinc	565	14.9		mg/Kg	25	8/17/2012 9:26:00 AM

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

12-08-1644

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

8-20

Ship To: Sherry Labs

Shipping Date: 8-10-12

P.O. No. F12221-6016
(Please include this number on your report.)

Sample No.	Sample Type	Analysis Requested	Expected Level
61551	Compost	503 metals + Cr	

PLEASE REPORT ON AN AS-RECEIVED BASIS

Contact Person: Martin Snodgrass / Julie Bruggner
msnodgrass@algreatlakes.com,
jbruggner@algreatlakes.com

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

Rec'd by *BE KCF* 8/13/12 1630 via NOW Ambient 21°