



Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: CS29 B50 Temperature C: 9.00

Client Sample ID: **1A1 20210616** Lab Sample ID: **21F0727-01**

Matrix: Solid Collected By: Date/Time Collected: 06/16/21 21:02

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 06/17/21 19:12

Units: mg/kg dry Analyzed: 06/18/21 15:26

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>
Aluminum	9030	J3	20.0
Antimony	< 4.00	J3	4.00
Arsenic	< 4.00	J3	4.00
Barium	94.6	J3	1.00
Beryllium	< 0.20	J3	0.20
Boron	14.9	B2, J3	10.0
Cadmium	2.28	B2, J3	1.00
Calcium	4260	J3	60.0
Chromium	12.4	J3	1.00
Cobalt	4.67	J3	2.00
Copper	12.4	J3	2.00
Iron	10300	J3	200
Lead	14.8	J3	1.00
Magnesium	1880	J3	100
Manganese	463	J3	3.00
Nickel	9.51	J3	1.00
Potassium	3400	J3	400
Selenium	< 4.00	J3	4.00
Silver	< 1.00	J3	1.00
Sodium	650	J3	400
Strontium	12.6	J3	1.00
Thallium	< 4.00	J3	4.00
Vanadium	20.1	B2, J3	1.00

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: CS29 B50 Temperature C: 9.00

Client Sample ID: **1A1 20210616** Lab Sample ID: **21F0727-01**

Matrix: Solid Collected By: Date/Time Collected: 06/16/21 21:02

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 06/17/21 19:12

Units: mg/kg dry Analyzed: 06/18/21 15:26

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>
Zinc	54.0	J3	10.0

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: CS29 B50 Temperature C: 9.00

Client Sample ID: **1A2 20210616** Lab Sample ID: **21F0727-02**

Matrix: Solid Collected By: Date/Time Collected: 06/16/21 21:02

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 06/17/21 19:12

Units: mg/kg dry Analyzed: 06/18/21 15:31

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>
Aluminum	9340		20.0
Antimony	< 4.00		4.00
Arsenic	< 4.00		4.00
Barium	21.0		1.00
Beryllium	< 0.20		0.20
Boron	1550	B2	10.0
Cadmium	< 1.00		1.00
Calcium	11500		60.0
Chromium	7.32		1.00
Cobalt	5.68		2.00
Copper	5.25		2.00
Iron	1090		200
Lead	2.30		1.00
Magnesium	2060		100
Manganese	17.6		3.00
Nickel	2.94		1.00
Potassium	3380		400
Selenium	< 4.00		4.00
Silver	< 1.00		1.00
Sodium	850		400
Strontium	15.0		1.00
Thallium	< 4.00		4.00
Vanadium	5.56	B2	1.00

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: CS29 B50 Temperature C: 9.00

Client Sample ID: **1A2 20210616** Lab Sample ID: **21F0727-02**

Matrix: Solid Collected By: Date/Time Collected: 06/16/21 21:02

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 06/17/21 19:12

Units: mg/kg dry Analyzed: 06/18/21 15:31

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>
Zinc	1470		10.0

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: CS29 B50 Temperature C: 9.00

Client Sample ID: **1A3 20210616** Lab Sample ID: **21F0727-03**

Matrix: Solid Collected By: Date/Time Collected: 06/16/21 21:02

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 06/17/21 19:12

Units: mg/kg dry Analyzed: 06/18/21 15:36

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>
Aluminum	2110		20.0
Antimony	6.29		4.00
Arsenic	< 4.00		4.00
Barium	19.6		1.00
Beryllium	< 0.20		0.20
Boron	276	B2	10.0
Cadmium	< 1.00		1.00
Calcium	12400		60.0
Chromium	3.66		1.00
Cobalt	< 2.00		2.00
Copper	17.2		2.00
Iron	228		200
Lead	2.36		1.00
Magnesium	475		100
Manganese	26.2		3.00
Nickel	1.34		1.00
Potassium	5310		400
Selenium	< 4.00		4.00
Silver	< 1.00		1.00
Sodium	1060		400
Strontium	16.0		1.00
Thallium	< 4.00		4.00
Vanadium	2.07	B2	1.00

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: CS29 B50 Temperature C: 9.00

Client Sample ID: **1A3 20210616** Lab Sample ID: **21F0727-03**

Matrix: Solid Collected By: Date/Time Collected: 06/16/21 21:02

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 06/17/21 19:12

Units: mg/kg dry Analyzed: 06/18/21 15:36

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>
Zinc	401		10.0

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: CS29 B50 Temperature C: 9.00

Client Sample ID: **1A4 20210616** Lab Sample ID: **21F0727-04**

Matrix: Solid Collected By: Date/Time Collected: 06/16/21 21:02

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 06/17/21 19:12

Units: mg/kg dry Analyzed: 06/18/21 15:41

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>
Aluminum	121		19.6
Antimony	< 3.92		3.92
Arsenic	< 3.92		3.92
Barium	< 0.98		0.98
Beryllium	< 0.20		0.20
Boron	10.4	B2	9.80
Cadmium	< 0.98		0.98
Calcium	61.0		58.8
Chromium	1.65		0.98
Cobalt	4.30		1.96
Copper	< 1.96		1.96
Iron	< 196		196
Lead	< 0.98		0.98
Magnesium	< 98.0		98.0
Manganese	< 2.94		2.94
Nickel	< 0.98		0.98
Potassium	2710		392
Selenium	< 3.92		3.92
Silver	< 0.98		0.98
Sodium	< 392		392
Strontium	< 0.98		0.98
Thallium	< 3.92		3.92
Vanadium	< 0.98	B2	0.98

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: CS29 B50 Temperature C: 9.00

Client Sample ID: **1A4 20210616** Lab Sample ID: **21F0727-04**

Matrix: Solid Collected By: Date/Time Collected: 06/16/21 21:02

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 06/17/21 19:12

Units: mg/kg dry Analyzed: 06/18/21 15:41

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>
Zinc	36.5		9.80

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: CS29 B50 Temperature C: 9.00

Client Sample ID: **1A5 20210616** Lab Sample ID: **21F0727-05**

Matrix: Solid Collected By: Date/Time Collected: 06/16/21 21:02

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 06/17/21 19:12

Units: mg/kg dry Analyzed: 06/18/21 15:46

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>
Aluminum	546		19.2
Antimony	20.4		3.85
Arsenic	< 3.85		3.85
Barium	4.54		0.96
Beryllium	< 0.19		0.19
Boron	28.0	B2	9.62
Cadmium	< 0.96		0.96
Calcium	1900		57.7
Chromium	3.58		0.96
Cobalt	6.71		1.92
Copper	13.7		1.92
Iron	< 192		192
Lead	20.3		0.96
Magnesium	817		96.2
Manganese	7.06		2.88
Nickel	3.55		0.96
Potassium	3080		385
Selenium	< 3.85		3.85
Silver	< 0.96		0.96
Sodium	< 385		385
Strontium	2.17		0.96
Thallium	< 3.85		3.85
Vanadium	3.52	B2	0.96

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: CS29 B50 Temperature C: 9.00

Client Sample ID: **1A5 20210616** Lab Sample ID: **21F0727-05**

Matrix: Solid Collected By: Date/Time Collected: 06/16/21 21:02

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 06/17/21 19:12

Units: mg/kg dry Analyzed: 06/18/21 15:46

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>
Zinc	335		9.62

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: CS29 B50 Temperature C: 9.00

Client Sample ID: **1A6 20210616** Lab Sample ID: **21F0727-06**

Matrix: Solid Collected By: Date/Time Collected: 06/16/21 21:02

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 06/17/21 19:12

Units: mg/kg dry Analyzed: 06/18/21 15:51

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>
Aluminum	1030		20.0
Antimony	< 4.00		4.00
Arsenic	< 4.00		4.00
Barium	2.54		1.00
Beryllium	< 0.20		0.20
Boron	76.1	B2	10.0
Cadmium	< 1.00		1.00
Calcium	1190		60.0
Chromium	2.93		1.00
Cobalt	6.45		2.00
Copper	< 2.00		2.00
Iron	< 200		200
Lead	1.38		1.00
Magnesium	515		100
Manganese	4.44		3.00
Nickel	1.15		1.00
Potassium	2870		400
Selenium	< 4.00		4.00
Silver	< 1.00		1.00
Sodium	< 400		400
Strontium	2.06		1.00
Thallium	< 4.00		4.00
Vanadium	1.06	B2	1.00

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: CS29 B50 Temperature C: 9.00

Client Sample ID: **1A6 20210616** Lab Sample ID: **21F0727-06**

Matrix: Solid Collected By: Date/Time Collected: 06/16/21 21:02

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 06/17/21 19:12

Units: mg/kg dry Analyzed: 06/18/21 15:51

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>
Zinc	551		10.0

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: CS29 B50 Temperature C: 9.00

Client Sample ID: **1A7 20210616** Lab Sample ID: **21F0727-07**

Matrix: Solid Collected By: Date/Time Collected: 06/16/21 21:02

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 06/17/21 19:12

Units: mg/kg dry Analyzed: 06/18/21 15:56

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>
Aluminum	1700		20.0
Antimony	< 4.00		4.00
Arsenic	< 4.00		4.00
Barium	3.91		1.00
Beryllium	< 0.20		0.20
Boron	178	B2	10.0
Cadmium	< 1.00		1.00
Calcium	1800		60.0
Chromium	3.12		1.00
Cobalt	6.42		2.00
Copper	< 2.00		2.00
Iron	< 200		200
Lead	< 1.00		1.00
Magnesium	498		100
Manganese	6.02		3.00
Nickel	1.01		1.00
Potassium	2830		400
Selenium	< 4.00		4.00
Silver	< 1.00		1.00
Sodium	< 400		400
Strontium	2.91		1.00
Thallium	< 4.00		4.00
Vanadium	1.08	B2	1.00

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: CS29 B50 Temperature C: 9.00

Client Sample ID: **1A7 20210616** Lab Sample ID: **21F0727-07**

Matrix: Solid Collected By: Date/Time Collected: 06/16/21 21:02

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 06/17/21 19:12

Units: mg/kg dry Analyzed: 06/18/21 15:56

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>
Zinc	613		10.0

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: CS29 B50 Temperature C: 9.00

Client Sample ID: **1A8 20210616** Lab Sample ID: **21F0727-08**

Matrix: Solid Collected By: Date/Time Collected: 06/16/21 21:02

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 06/17/21 19:12

Units: mg/kg dry Analyzed: 06/18/21 16:01

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>
Aluminum	6540		20.0
Antimony	< 4.00		4.00
Arsenic	< 4.00		4.00
Barium	13.9		1.00
Beryllium	< 0.20		0.20
Boron	937	B2	10.0
Cadmium	< 1.00		1.00
Calcium	7360		60.0
Chromium	6.14		1.00
Cobalt	6.46		2.00
Copper	4.09		2.00
Iron	377		200
Lead	4.93		1.00
Magnesium	586		100
Manganese	10.4		3.00
Nickel	2.09		1.00
Potassium	3460		400
Selenium	< 4.00		4.00
Silver	< 1.00		1.00
Sodium	608		400
Strontium	9.90		1.00
Thallium	< 4.00		4.00
Vanadium	4.08	B2	1.00

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: CS29 B50 Temperature C: 9.00

Client Sample ID: **1A8 20210616** Lab Sample ID: **21F0727-08**

Matrix: Solid Collected By: Date/Time Collected: 06/16/21 21:02

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 06/17/21 19:12

Units: mg/kg dry Analyzed: 06/18/21 16:01

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>
Zinc	151		10.0

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: CS29 B50 Temperature C: 9.00

Client Sample ID: **1A9 20210616** Lab Sample ID: **21F0727-09**

Matrix: Solid Collected By: Date/Time Collected: 06/16/21 21:02

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 06/17/21 19:12

Units: mg/kg dry Analyzed: 06/18/21 16:06

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>
Aluminum	9200		20.0
Antimony	< 4.00		4.00
Arsenic	< 4.00		4.00
Barium	13.9		1.00
Beryllium	< 0.20		0.20
Boron	1780	B2	50.0
Cadmium	< 1.00		1.00
Calcium	12900		60.0
Chromium	9.04		1.00
Cobalt	6.84		2.00
Copper	6.81		2.00
Iron	660		200
Lead	13.1		1.00
Magnesium	3480		100
Manganese	14.4		3.00
Nickel	5.49		1.00
Potassium	3440		400
Selenium	< 4.00		4.00
Silver	2.86		1.00
Sodium	1000		400
Strontium	17.1		1.00
Thallium	< 4.00		4.00
Vanadium	10.2	B2	1.00

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Reported:
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Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: CS29 B50 Temperature C: 9.00

Client Sample ID: **1A9 20210616** Lab Sample ID: **21F0727-09**

Matrix: Solid Collected By: Date/Time Collected: 06/16/21 21:02

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 06/17/21 19:12

Units: mg/kg dry Analyzed: 06/18/21 16:06

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>
Zinc	1570		10.0

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: CS29 B50 Temperature C: 9.00

Notes and Definitions

- J3 The reported value failed to meet the established quality control criteria for either precision or accuracy possibly due to matrix effects.
- B2 The sample matrix caused possible effects on measurement. The result may be biased high.
- ND Analyte NOT DETECTED at or above the reporting limit
- * Non-NELAP accredited

21F0727: Samples in this work order were a fluffy, ash material. Dry weights assumed to be 100% dry.

Metals: 21F0727-01 Client Matrix Assessment- sample failed method post spike test for Zinc and Thallium, indicating probable matrix interference.

Report Authorized by:

Tom Weiss
Laboratory Manager

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