



### Analysis Report for Use of Biosolids on Cropland

<p>Jason Brown University Area Joint Auth 1576 Spring Valley Rd State College PA 16801</p>	<p><b>Lab Sample ID:</b> E19198 <b>Date Received:</b> 10/8/2018 <b>Date Sampled:</b> 10/8/2018 <b>Report Date:</b> 10/25/2018 <b>Sample type:</b> Grab <b>County:</b> Centre <b>Customer Sample ID:</b> Compost</p>
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#### RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH <sub>4</sub> N	P	K	Mg	Ca	Na	Fe	Al
@ 25.3 C	%					% (dry weight basis)						
6.4	74.95	66.78	3.26	2.87	0.39	1.41	0.46	0.35	3.93	0.06	0.50	1.50
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB <sup>1</sup>	Reactive <sup>1</sup> CN
mg/kg (dry weight basis)												
245.1	< 2.13	< 0.71	11.8	218.7	13.0	0.60	3.3	9.7	< 3.56	255.6	< .01	< 1.3

NR-Not Requested      One dry ton of this material is equivalent to      320 gallons of wet material or      1.3 tons of wet material

#### PRIMARY NUTRIENT CONTENT

% (dry wt basis)			
Total N	3.26	1.53	dry tons of this biosolid will supply 100 lbs of total N.
P <sub>2</sub> O <sub>5</sub>	3.23	3.55	dry tons of this biosolid will supply 100 lbs of P
K <sub>2</sub> O	0.55		

#### ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni, Zn	3050B + 6010	Stecko	10/25/2018	9:12:07
As	3050B + 6010	Stecko	10/25/2018	9:12:07
Se	3050B + 6010	Stecko	10/25/2018	9:12:07
Hg	7473	Green	10/9/2018	11:46:02 AM
PCB <sup>1</sup>	8082			

<sup>1</sup>Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

#### RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	0.469	0.469	0.469	0.252	0.469	0.469	0.469	0.469	0.469
Analyte conc. in sample/digest (mg/L except Hg)	0.010	0.002	1.537	0.114 ug	0.023	0.068	0.092	0.010	1.797
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis						Sample Receipt
Nitrate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ba = 167.32 mg/kg	Hand-delivered after sampling
111.05	35.2		2.80			

**EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and  
DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION**

