



**PARTICLE ANALYSIS
REPORT**

**PSU Hershey Medical Center
CLOSED LOOP**

**Electro Cell System: XCell-6000 Particle
Precipitator (Insulated)**



**98%
particle
reduction
in 8 weeks**



Baseline Sample

TEST METHOD: All tests completed by independent third-party laboratory. Samples analyzed by electro-optical particle analyzer employing the light scattering principle of operation with filtered water and particle data corrected. Stirring was continuous.

BASELINE SAMPLE - Prior to ElectroCell Start-up - 2-July-2019	AFTER 8 WEEKS with ElectroCell System - 28-Aug-2019
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PARTICLE COUNTS PER 100mL TEST PORTION	PARTICLE COUNTS PER 100mL TEST PORTION
1 - 3 micron: 81,323,200	1 - 3 micron: 2,935,808
3 - 5 micron: 11,877,600	3 - 5 micron: 379,968
5 - 10 micron: 7,653,600	5 - 10 micron: 158,496
10 - 15 micron: 2,180,800	10 - 15 micron: 40,112
15 - 25 micron: 1,948,000	15 - 25 micron: 31,200
Over 25 micron: <u>599,200</u>	Over 25 micron: 11,904
TOTAL / 100mL: 105,582,400	TOTAL / 100mL: 3,557,488

SOLIDS PER 100 LITERS OF SYSTEM VOLUME (mm ³)	SOLIDS PER 100 LITERS OF SYSTEM VOLUME (mm ³)
1 - 5 micron: 1,410.75	1 - 5 micron: 47.80
5 - 10 micron: 3,229.82	5 - 10 micron: 66.89
Over 10 micron: <u>417,427.17</u>	Over 10 micron: 8,232.19
TOTAL / 100 Liters: 422,067.74 4221 ppm	TOTAL / 100 Liters: 8,346.88 83 ppm