

- Publicly traded company (NYSE American: WWR)
- Battery Grade Natural Graphite Developer
- Natural Graphite Purification, Graphite Anode Production in Kellyton, AL







Kellyton Graphite Plant - construction as of February 2023

- **Proprietary Technology**
- High Purity Conversion
- Proprietary and Patent Pending: Sustainable
- non-hydrofluoric graphite purification process



United States Produced

- Centrally located to U.S. EV Hub
- Plans for vertical integration of Mining to Anode

Sustainability

- Environmentally Sustainable Process
- Low environmental footprint
- Strong support from local governments

		2020	2021	2022	2023	2024	2025	2026	2027	2028
Pilot plant			Custome 15MT	er Qualific	ations					
Full-Scale Plant (Alabama)	CSPG (Natural Graphite Anode)				Comm 3,700MT	ercial Pro 3,700MT	duction 15,800MT			
	Purified Fines				3,800MT	3,800MT	16,600MT			
Feedstock					Non-C	hina Natu	ral Graph	ite Source	9	
Coosa Mining (Alabama)									U.S. Fee	dstock

Energy Materials for the Twenty-First Century

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ULTRACSPG[™]

GENERAL CHARACTERISTICS				
Product Name	ULTRA-CSPG™			
Туре	Natural Flake Coated Spherical Purified Graphite			
Chemical Name	Graphite			
Chemical Element	С			
Appearance	Fine dark gray powder			
Country of Manufacture	USA			
Melting Point	3,750 °C (sublimes)			

PHYSICAL CHARACTERISTICS

Purity (LOI ₉₅₀)	> 99.95 wt%		
Ash	< 0.05 wt%		
Moisture	<0.1 wt%		
BET Surface Area	2.0-4.0 m²/g		
Tap Density	> 1.1 g/cm ³		
True Density	2.23 g/cm ³		

Westwater Resources is capable of producing natural ULTRA-CSPG^{\rm TM} graphite with D50 ranging from 10 μm to 25 μm

INITIAL GALVANOSTATIC CYCLING OF ULTRA-CSPG[™] IN CR2016 CELLS VS. Li/Li+ COUNTER ELECTRODE

Particle Size Distribution





INITIAL GALVANOSTATIC CYCLING OF ULTRA-CSPG™ IN CR2016 CELLS VS. Li/Li+ COUNTER ELECTRODE



Note: the C-rate of C/20 means that the necessary current is applied or drained from the battery to completely charge or discharge it in 20 hours, which is a low discharge rate.

ULTRA-CSPG™

CR2016 Li-ion Battery Anode	D90/D10	Reversible Capacity	Irreversible Capacity Loss	BET Surface Area
ULTRA-CSPG™ Natural Graphite D₅₀ : 10 μm	2.45	345 mAh/g	6.25%	2.0-4.0 m ² /g
ULTRA-CSPG™ Natural Graphite D ₅₀ : 18 µm	2.45	361 mAh/g	6.34%	2.0-4.0 m²/g

 $m^2/g =$ square meter per gram

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