Lunar Water Logistics – Investor Brief

Positioning Aegis Station at the Center of the Off-Earth Water Economy
aegisstation.com/waterlogistics

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1. Executive Summary

Water is the key to unlocking the cislunar economy. Aegis Station requires over **400,000 metric tons**—the equivalent of **163 Olympic swimming pools**—to complete its radiation shielding and life support reserves. Instead of launching from Earth, we'll source every drop directly from the Moon.

Aegis will be filled using a **fleet of 20 reusable tankers**, each delivering **15 tons/day** from lunar surface mining sites. This architecture not only completes the station in under **four years**, but establishes the world's first scalable **off-Earth water pipeline**—supporting:

- Orbital refueling stations (LEO, Gateway, Mars transit)
- Life support for deep space habitats
- Shielding mass for future stations and vehicles
- Export-grade fuel derived from lunar water

The same logistics system that builds Aegis becomes a commercial utility that fuels the next economy.

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2. Market Opportunity

Aegis Station: The Anchor Customer

- Immediate demand: **406,848 tons** of shielding water
- Fully integrated lunar-orbit infrastructure
- Dual-purpose storage: radiation mass + life support

Phase Two Customers:

- **Fuel depots** in LEO and cislunar space
- **Private space stations**
- **Mars-bound vehicles**
- **NASA and international partners**

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3. Economics of Delivery

Source	Cost per kg	Cost per Olympic Pool
Earth-launched	$2,500	~$6.25 million
Lunar-sourced	$750	~$1.88 million

Fleet Efficiency:

- **20 tankers × 15 tons/day** = 300 tons/day
- Total fill time for Aegis: **~3.7 years**
- Infrastructure remains productive after station completion

[diagram here: cost crossover + throughput chart]

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4. Strategic Differentiators

- **Vertical integration**: From lunar surface to orbital delivery
- **High-frequency cadence**: Daily launch, delivery, return
- **Reusable hardware**: Minimizes long-term cost per kg
- **Export-ready**: After Aegis, the system becomes a commodity service

[diagram here: system lifecycle — station → surplus]

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5. Investment Thesis

Investing in lunar water logistics is not just backing a mission—it's buying into the **utility layer of the space economy**.

- Rapid ROI from Aegis Station fill (~$305M operating cost vs. >$1B Earth launch equivalent)
- Scalable to support new customers without retooling
- Positioned at the intersection of exploration, infrastructure, and commerce

Aegis Station isn't just a destination—it's a proving ground for industrial off-world supply.

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6. Learn More

Visit aegisstation.com
Access the master dossier and full suite of project materials.