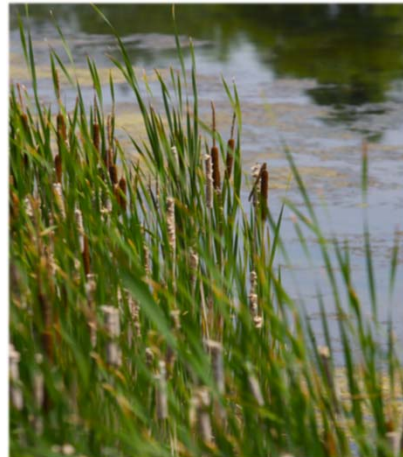




## Agenda

- Introduction to Norlite
- Public Participation Plan (Meeting)
- Project Delta Scope
- Benefits of Delta
- NYS DEC & Permitting
- Project Timeline
- Public Accessibility
- Q&A



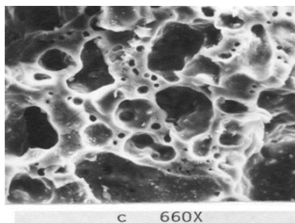
## Who is Norlite?



- With a quarry that has reserves with an expected life of at least 50 years, Norlite can continue to be a major player in supplying innovative construction products to the NE market
- Norlite is the only lightweight aggregate manufacturer in the US that uses industrial waste fuel/alternate fuel as a source of energy, instead of fossil fuels. This saves the burning of over 17,000 tons or 700 truckloads of coal



## The product



***The final product is light and porous but has beneficial properties***

- Can be mixed with concrete to reduce cement use, **reducing weight in buildings and bridges**
- Has better insulation properties **reducing energy use**
- Has high fire resistance resulting in **increased safety**
- Can be used in **environmental applications** such as water filtration media and as a component of soil for green roof gardens

## What is Norlite's process?



Alternate fuel which burns cleaner than some fossil fuels such as coal is used to manufacture a porous shale expanded product



Light Weight Aggregate



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## Light Weight Aggregate (LWA) in Unique Applications



Lightweight Concrete Masonry



Structural Lightweight Concrete



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## LWA in Unique Applications



**Bridges**



**Geotechnical Backfill**



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## LWA Environmental Contributions to Green Uses



**Horticulture & Green Roofs**



**Filter Media**



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# Tonight's Public Meeting



## Purpose

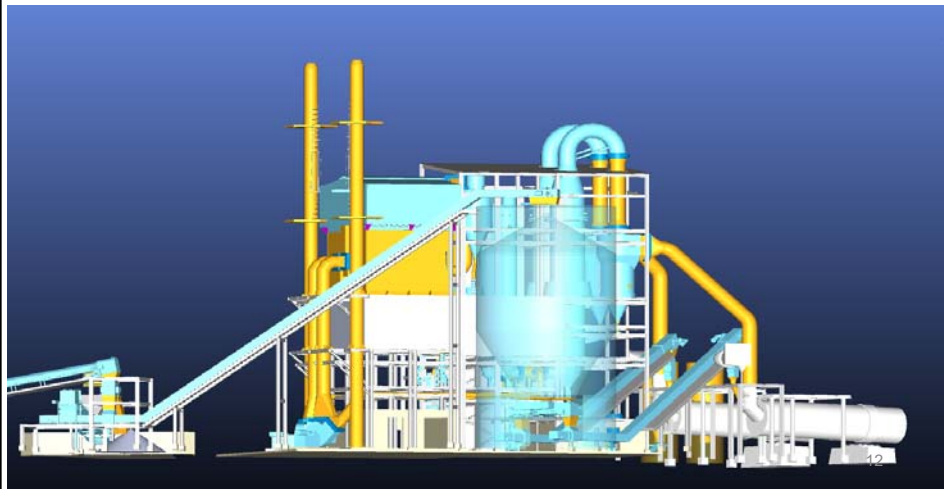
- A presentation of Project Delta to the community
- Opportunity for Norlite to hear your questions & comments

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# The Proposed Project Delta



Norlite is proposing to modernize its plant to improve environmental benefits while increasing reliability using state of the art technology to meet LWA market demand.



## What Is Not Changing



The project does NOT seek to increase :

- permitted emissions -or-
- alternative fuel throughput

Permitted Values are

10.5 GALLONS  
PER MINUTE

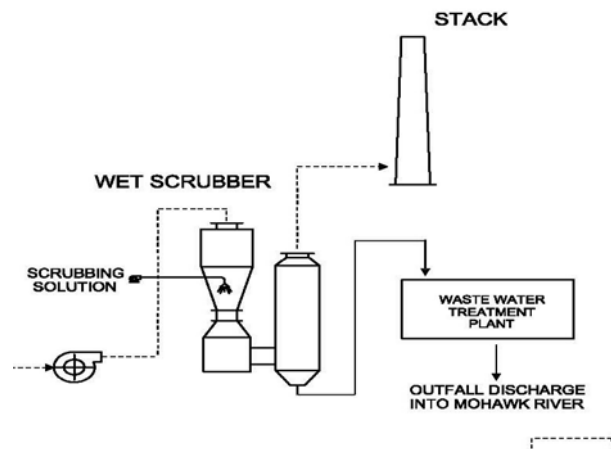
24.3 TONS  
PER HOUR

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## Current Gas Treatment – Wet Technology



This is the current configuration, based on a wet scrubber to remove contaminants from the gaseous stream after solids removal.

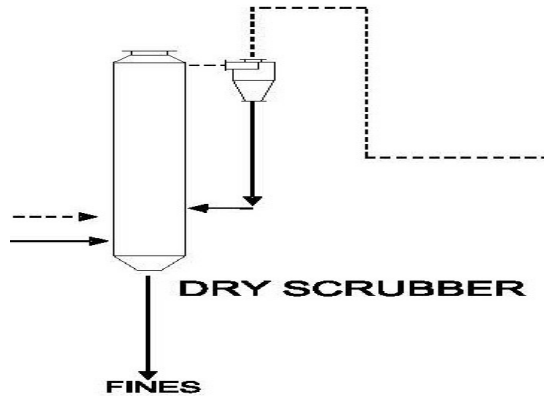


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## Project Delta Gas Treatment – Semi- Dry Technology



The new state-of-the-art system would incorporate more automation, insulation, and improved process flow. This option would be based on a cyclone, gas conditioning tower and dry scrubber, followed by a baghouse, eliminating the wet scrubber and therefore, outfall 006.



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## Zoning & Process Review with Local Officials



**Norlite, City of Cohoes and Albany County Officials working closely together**

- Norlite met with the City of Cohoes to introduce Project Delta in July 2018
- Project Delta was presented at a Cohoes public zoning meeting in August 2018
- Norlite, NYS DEC and the Albany County Planning Board reviewed project details in September 2018
- City of Cohoes engineers met with Norlite engineers in October 2018 to review Project Delta details

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## Permitting Process with NYS DEC



### Norlite and NYS DEC working closely together

- Starting January 2018 Norlite met with NYS DEC early in the project to promote project collaboration
- Project permitting review process began in Spring of 2018 with applications submitted in July 2018
- NYS DEC and Norlite have conducted several meetings to exchange information to ensure all state and federal regulations were met along with proper functional design of the new system

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## Regulatory Requirements Once Constructed



### Norlite will need to commission the new system following State and Federal regulations

This will include an air emissions test under the **Clean Air Act (CAA)** referred to as a **Comprehensive Performance Test (CPT)**.

The CPT:

- will ensure the Air Pollution Control (APC) system performs as designed
- documents that the APC system meets all regulatory requirements
- test is approved and monitored by NYS DEC with review and oversight by EPA

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## Project Delta Benefits



- **State of the art manufacturing business in New York**
- **Maintaining employment at the facility with 70 employees**
- **Supporting local businesses**
- **Green product manufactured in New York with expanding applications in the construction market, made with limited fossil fuels**
- **Improved energy efficiency**
- **Elimination of effluent discharge to the Mohawk River**
- **Improved equipment reliability**
- **Increased automation**

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## Timeline



- **Projected Timeline**
  - Technology research during Q1 2018
  - Completion of modelling, in depth process and technology evaluation and pilot testing Q2 2018
  - Selected technology by 6/1/2018
  - Permitting during Q2 2018 – Q1 2019
  - Construction starting 3/1/19
  - Commissioning during Q4 2019



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## How You Can Stay Informed



1. Follow Norlite's web site ([www.Norliteagg.com](http://www.Norliteagg.com))
2. Review public repositories
  1. Cohoes Public Library
  2. NYS DEC Region 4 and NYS DEC Central Office
3. Sign up as a Stakeholder to receive emails and hardcopy update communications (approximately Quarterly distribution)
4. Announcements by Norlite will be provided in local newspapers during the permitting process

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## Contact Information



Norlite contacts listed below can be reached at (518) 235 – 0401

- Prince Knight – Environmental and Regulatory Compliance Manager
- Darrell Monk – Plant Manager

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ON BEHALF OF THE NORLITE  
TEAM, WE THANK YOU FOR  
YOUR TIME AND INTEREST!