

# Jorge Alvarez H.S. – Adelaide Avenue Providence, Rhode Island

Prepared for:



**Providence Public Schools Department** 

Prepared by:





EA Engineering, Science, and Technology, Inc., PBC

## Former Gorham Manufacturing – RIDEM Online Data Repository

- Gorham/Textron Site
  - 4 Properties comprise the Former Gorham Manufacturing Site
    - Stop & Shop Parcel (future Tesla) Parcel A
      - Semiannual groundwater sampling, groundwater pump and treat, and an active sub-slab depressurization system (SSDS) to address the volatile organic compounds in groundwater. This work is performed by the responsible party, Textron, Inc.
    - Public High School Parcel (J. Alvarez) Parcel B
      - Monthly and quarterly air sampling performed for Providence Public School Department. The school has an active SSDS installed during construction of the school.
    - "YMCA Parcel" (J. Alvarez athletic field) Parcel C
      - Semi-annual groundwater sampling by the responsible party, Textron, Inc.
    - Park and Mashapaug Cove Parcel Parcel C1
      - Semiannual groundwater sampling performed for Textron, Inc.
    - All four (4) properties have an engineered control cap that prevents direct exposure to underlying residual soil contamination.

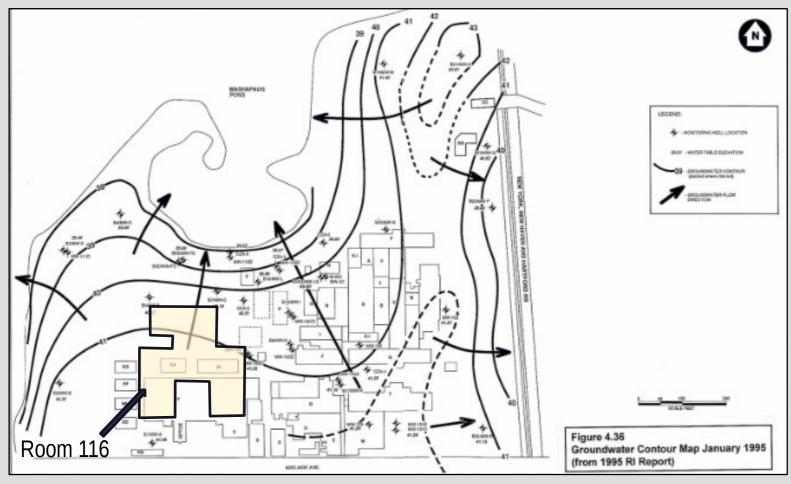




https://dem.ri.gov/environmental-protection-bureau/land-revitalization-and-sustainable-materials-management/site-remediation-gorham



### **Groundwater Flow and TCE Plume (1995)**



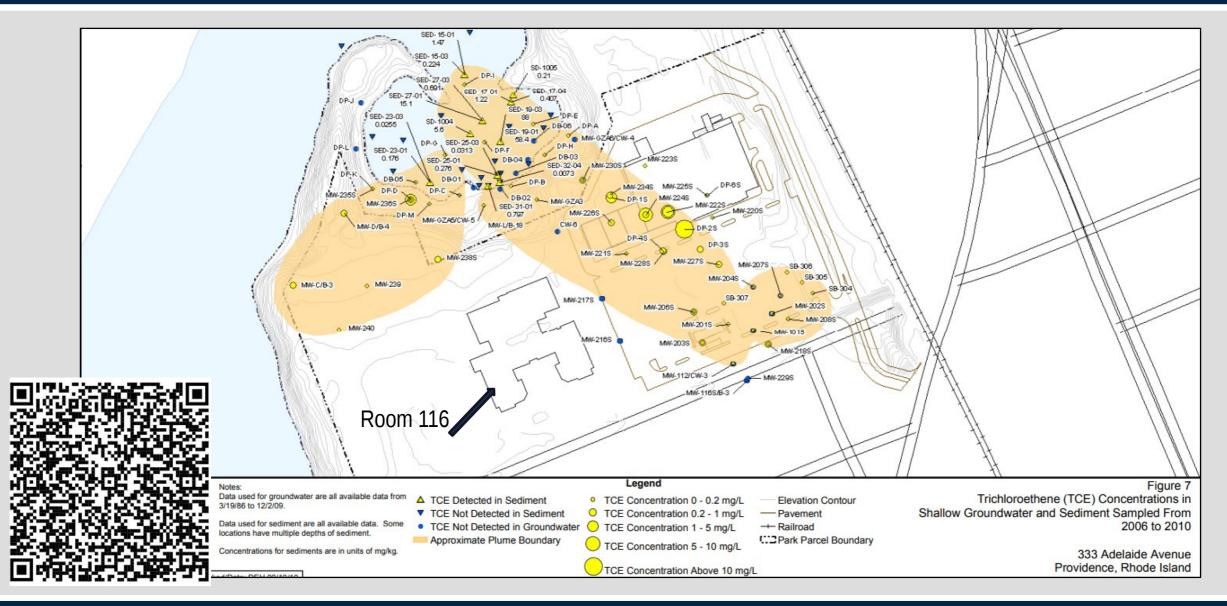
Room 116

**Groundwater Flow Direction (1995 Remedial Investigation)** 

**Deep Aquifer TCE Plume (1995)** 

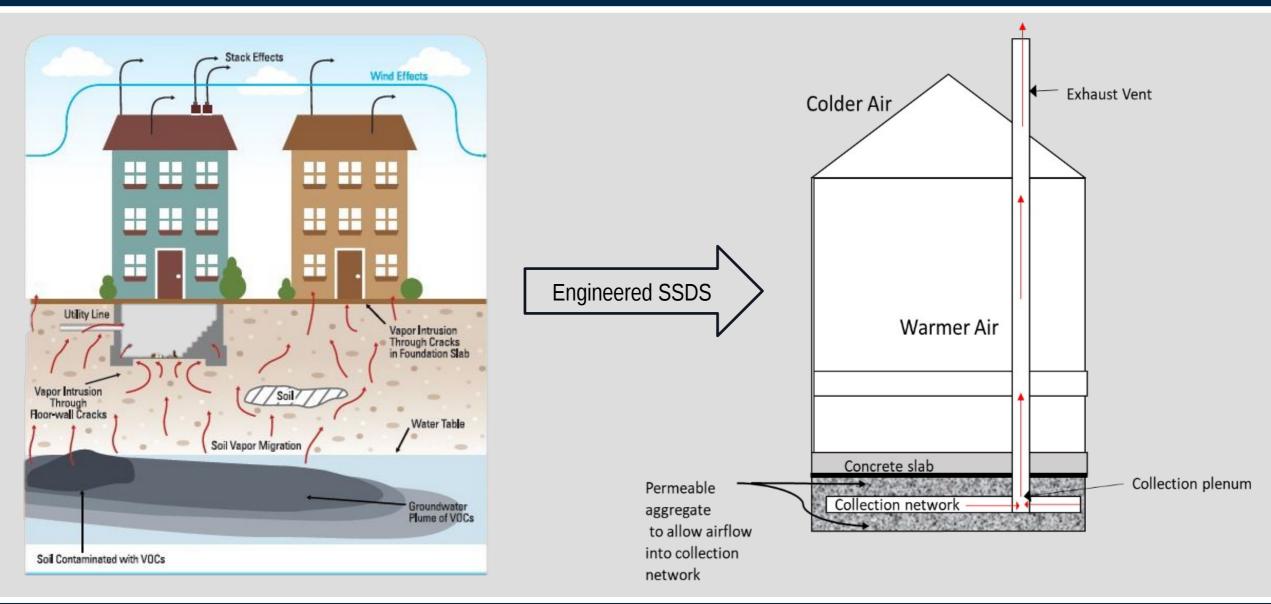


#### Former Gorham Manufacturing - Historic Groundwater Data (2006 – 2010)



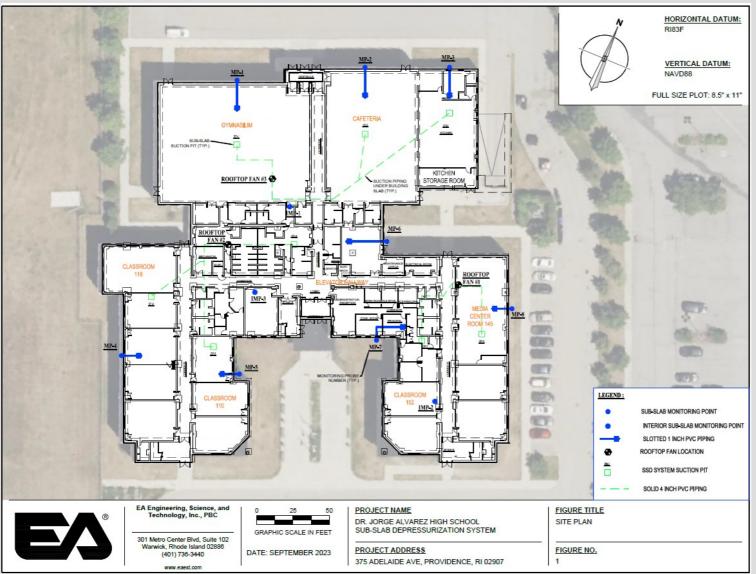


#### Former Gorham Manufacturing – Mitigating Vapor Intrusion





### Former Gorham Manufacturing – Monitoring Locations and Features















#### Former Gorham Manufacturing – Timeline and PPSD Monitoring Schedule





- Site Investigations 1995 2005
- Order of Approval from RIDEM 2006
- Federal Agency for Toxic Subst. & Disease Registry Health Consultation December 2006
- Sub-Slab Depressurization System (SSDS) On-Line 16 March 2007
- First Air Sampling Event March 2007
- Monthly and Quarterly Monitoring 2007 2023

Annual Sampling and Laboratory Analysis Program	Winter	Spring	Summer	Fall
Indoor Air Sampling (Rooms 110, 118, 145, 152, Cafeteria, Gym, Entrance Hallway, Kitchen)	Yes	Yes	Yes	Yes
Rooftop Fan Sampling (Fans 1-3)			Yes	
Interior Monitoring Points Sampling (IMP 1)	Yes	Yes	Yes	Yes
Interior Monitoring Sampling (IMP2)	Yes		Yes	
Interior Monitoring Point Sampling (IMP-3)		Yes		Yes
Exterior Monitoring Points Sampling (MP1,3,4,6)	Yes		Yes	
Exterior Monitoring Points Sampling (MP 2,5,7,8)		Yes		Yes
Monthly Inspection Monitoring (PID, methane and vacuum meas.)	Monthly (January through December)			



#### Former Gorham Manufacturing – Proposed Mitigation and Monitoring

#### Proposed Mitigation Plan – Room 116 Exceedance

- Upgrade existing rooftop SSDS exhaust fans
- Perform video survey of SSDS vacuum lines
- Contingency monthly classroom sampling (Room 116)
  - \* TCE not detected on 15 September
  - \* Rooms 115, 116, and 117 sampling 9 October
  - Additional in-wall sample collected 9 October (source tracing)
- 25 October quarterly school-wide sampling event
- If negative pressure beneath building does not improve, install additional SSDS point at MP-4 (below Room 116).





#### **End of Presentation**



