



LOWER FALLS IMPROVEMENT ASSOCIATION RIVERSIDE COMMITTEE

Presentation to the Land Use Committee

Water, Waste Water, and Environmental Issues

March 5, 2020



INTRODUCTION

- **The LFIA has assembled a group of technical specialists to review and critique the Riverside documents from the perspective of the Lower Falls and Auburndale neighborhoods. The group includes Civil Engineers (PE) and Environmental Specialists (including a Licensed Site Professional).**
- **Goal tonight: to highlight issues that need further examination prior to the issuance of the Special Permit and the start of construction.**
- **We note that Mark Development filed its Draft Environmental Impact Report earlier this week. We recognize that answers to some of our concerns may be contained in it.**
- **We are pleased that Mark Development has offered to have its team meet with our technical experts to cover any outstanding issues.**

MAIN SUBJECTS

- **WASTEWATER**
- **WATER SUPPLY**
- **DEWATERING**
- **STORMWATER**
- **SITE CONTAMINATION**
- **CONSTRUCTION PLANNING**



WASTEWATER



Preliminary Concerns/Data Needs

- **Potential sewer backups in homes and parks – an existing issue in Lower Falls and Auburndale / Lyons Park**
- **Increased likelihood of combined sewer overflows and associated surface water, wetland, and recreational impacts**
- **Wastewater collection system / CSO engineering evaluation, including modeling, is needed, to predict future performance and indicate possible mitigation actions**
- **Monitoring of pre-project and post-construction conditions is needed, to ensure adequately protective performance is achieved**



Preliminary Concerns/Data Needs

- **Water pressure: to what degree is water pressure in the neighborhood expected to change? What is the backup data that supports that conclusion?**
- **Fire protection: what size must the water line pipes be to preserve adequate pressure for fire-fighting? What is the backup data to support this conclusion?**
- **Rerouting the existing water supply pipeline: when is the rerouting expected to occur and what are the plans for capacity during the outage?**



STORMWATER



Preliminary Concerns/Data Needs

- **Potential contamination of the Charles River from stormwater impacts, including during construction**
- **Potential flooding or ponding if stormwater infiltration expectations are not met**
- **Confirm that proposed stormwater infiltration will not mobilize groundwater and soil contamination toward the Charles River**
- **Conduct stormwater monitoring – pre-construction, during construction, and post-construction – to ensure adequate performance and to guide mitigation if needed**
- **Confirm that proposed stormwater infiltration can be achieved given the water table depth, shallow bedrock, and variable hydraulic conductivity of sediment site conditions**



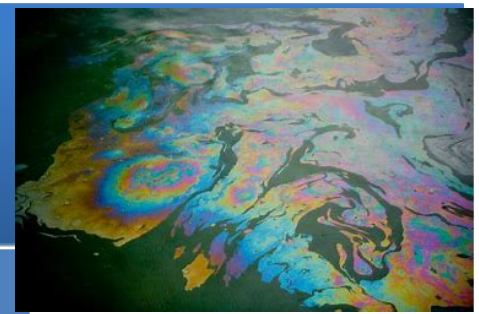
Preliminary Concerns/Data Needs

We understand from the plans that large and deep excavations will occur.

- **How much infiltrating groundwater will be stored?**
- **Where will it be stored?**
- **For how long?**
- **How will it be treated?**
- **Where will it be discharged?**
- **What is the expected impact on the Charles River, if any?**



SITE CONTAMINATION

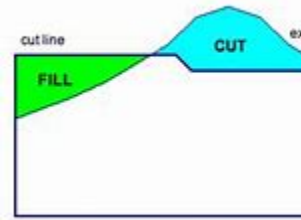


Preliminary Concerns/Data Needs

- **Confirm the basis for the soil contamination exemption based on historical fill rationale**
- **Identify what, if any, Activity and Use Limitations (AULs) will be established**
- **Confirm that soil and groundwater contamination will not impact public health (e.g., dust) and ecological receptors (e.g., Charles River)**
- **Confirm that soils stockpiled, brought onsite, and taken offsite will not be a risk**



CONSTRUCTION PLANNING



Preliminary Concerns/Data Needs

For the upcoming hearing on the construction management plan, we look forward to seeing plans addressing:

- **Cut and fill, including volume calculations and control and monitoring dust & soil quality**
- **Bedrock blasting & grinding, including vibration & noise impacts**
- **Construction-related dewatering and handling of resulting water**
- **Control and monitoring of stormwater quality**
- **Control and monitoring of vibration & noise impacts**

NEXT STEPS



- **The issues we have raised here and others like them will likely be best addressed by technical exchanges between the neighborhood experts and Mark Development’s team at an upcoming meeting.**
- **We look forward to such an exchange and are grateful for Mark Development’s willingness to engage in this process.**
- **We propose that we report back at a future hearing on any items we have not been able to resolve.**