

Durham Meadows Superfund Site Durham, CT

Public hearing
Proposed Groundwater Ordinance

June 3, 2015, 7:00 PM
Durham Volunteer Fire House



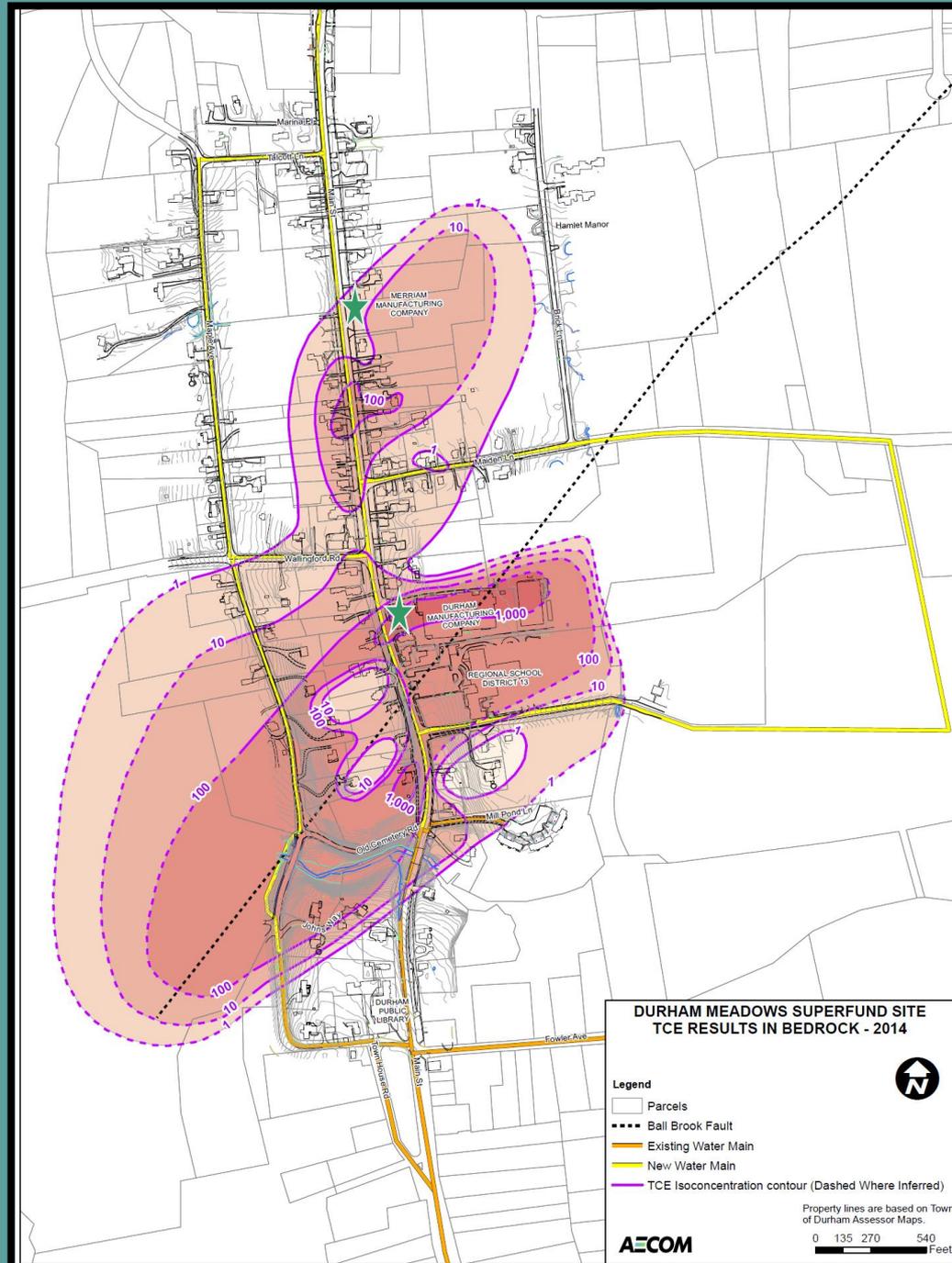
Tonight's agenda

- ◆ Durham Meadows Superfund Site Cleanup Update
- ◆ Proposed Groundwater Ordinance
- ◆ Q&A/Public Hearing

Cleanup Update

Why are EPA and CTDEEP implementing a cleanup action in Durham?

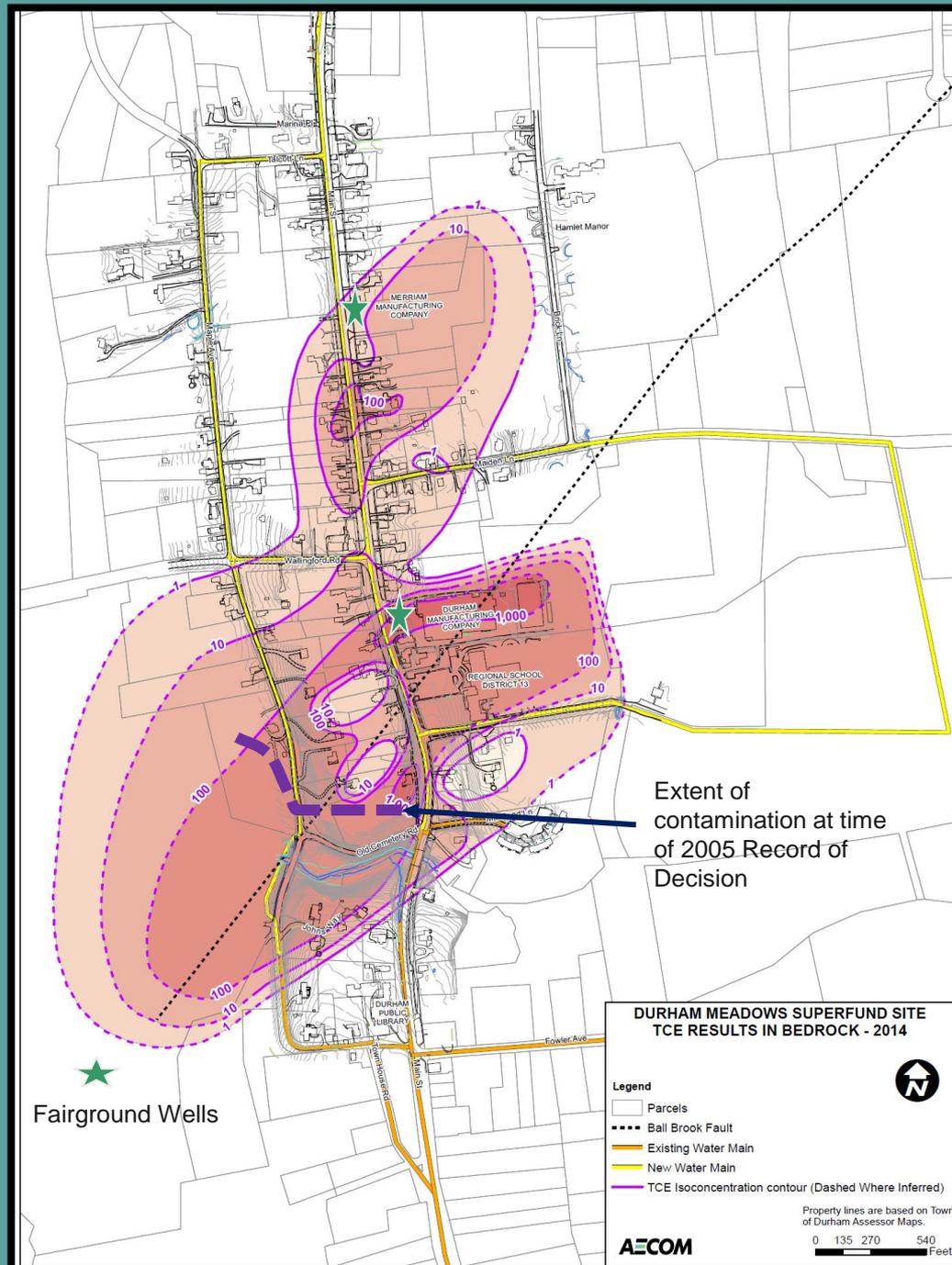
- ◆ Extensive groundwater contamination for a large area in the center of Durham, including at two manufacturing facilities.
- ◆ 50 wells, serving 54 locations (mostly residential homes), have contamination and rely upon filters to provide clean drinking water.
- ◆ 10 locations also receive bottled water for drinking water use due to 1,4-dioxane contamination, which cannot be treated with filters.



Cleanup Update

Why are EPA and CTDEEP implementing a cleanup action in Durham?

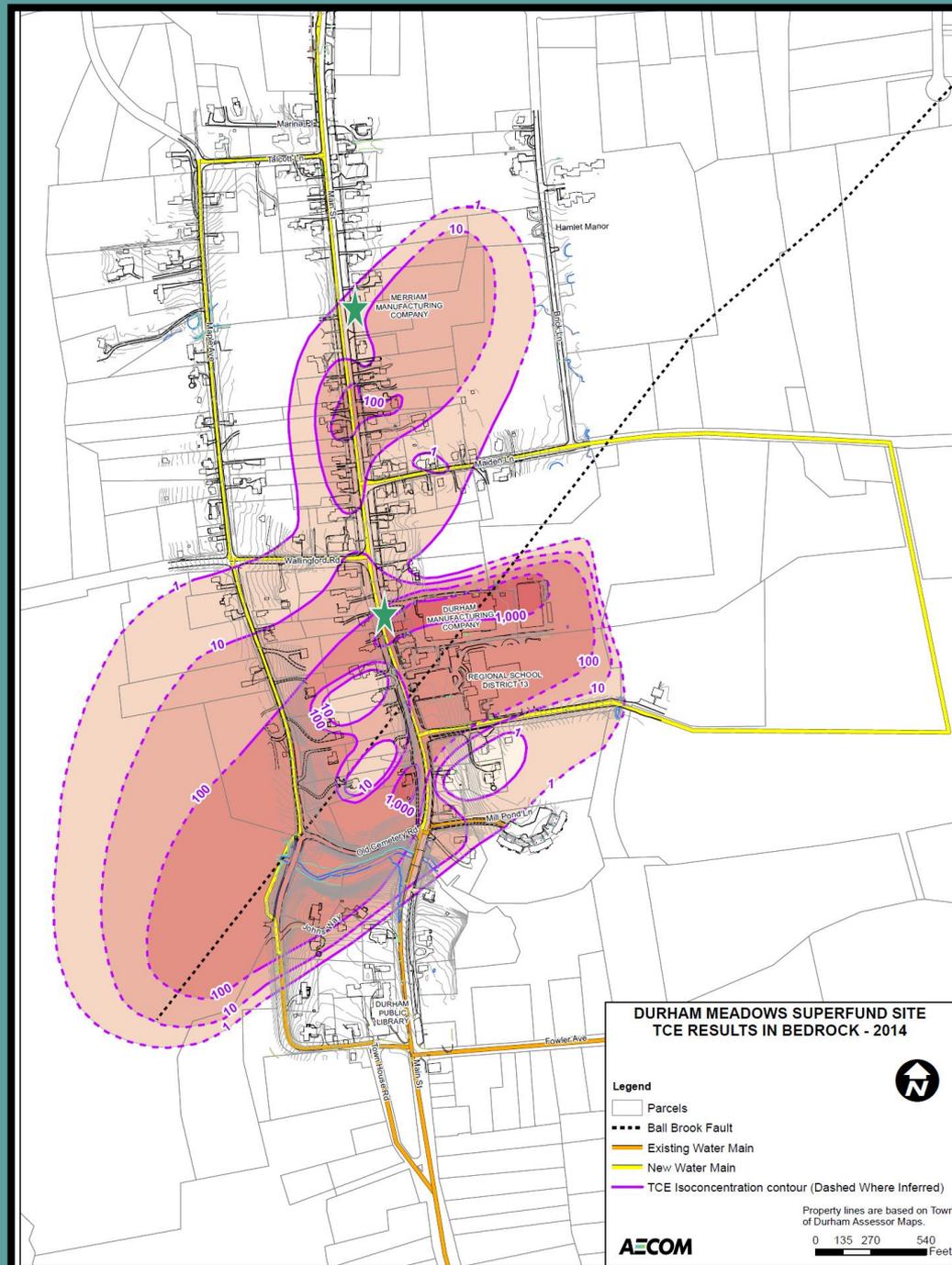
- ◆ Contamination has expanded in southwest direction, towards Durham Fairgrounds, since ROD in 2005.
- ◆ No effective way to restore the groundwater to drinking water quality in a reasonable time frame.
- ◆ The most practical long-term solution is to provide a public water supply for contaminated areas.



Cleanup Update

Major components of EPA cleanup (based on Record of Decision signed in 2005).

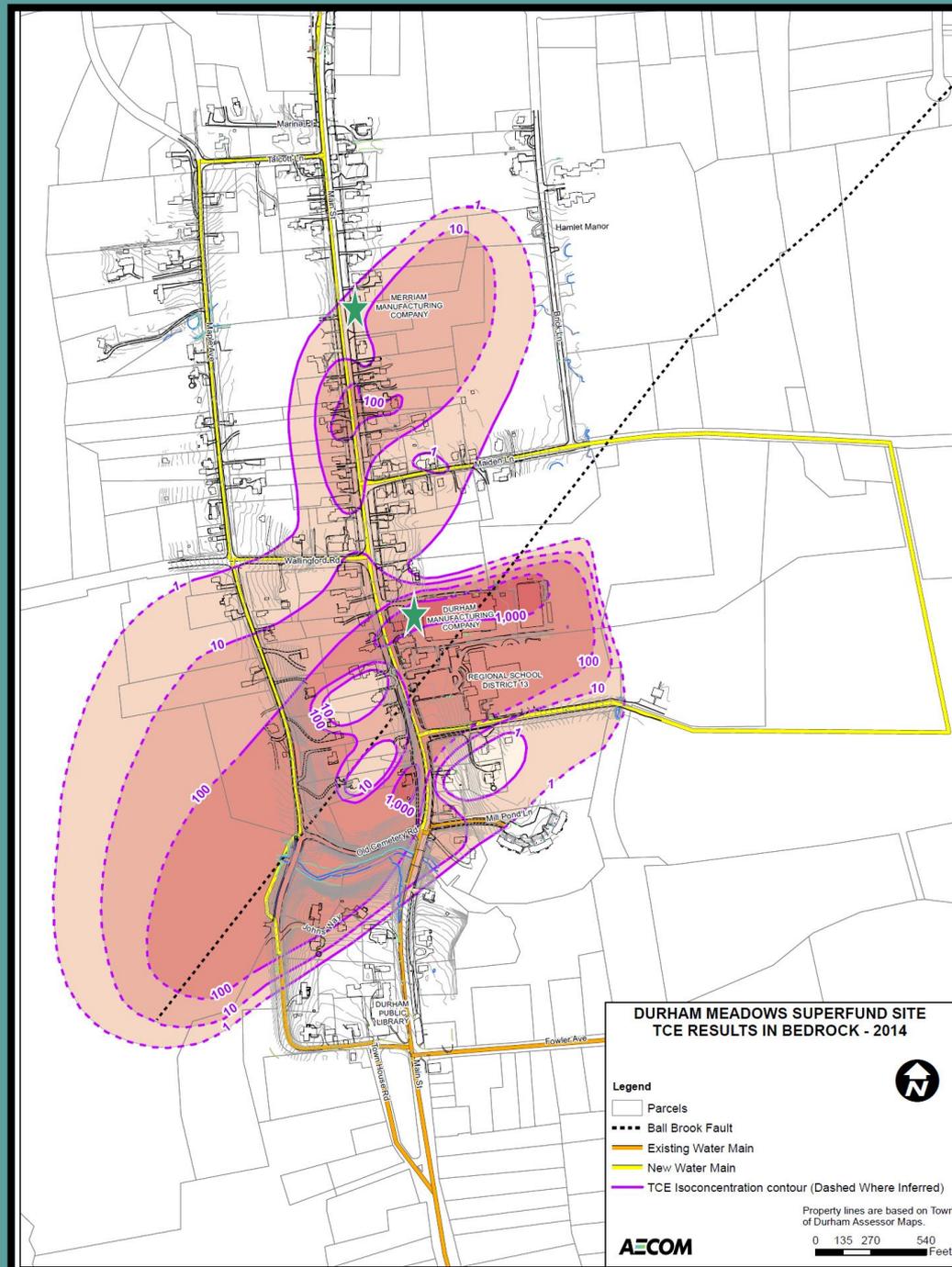
- ◆ Cleanup of former Merriam Manufacturing Company property.
 - Completed in 2013.
- ◆ Cleanup of Durham Manufacturing Company property.
 - Design work is ongoing.
- ◆ Installation of a water line.
 - Design work is ongoing.
- ◆ Monitoring of the groundwater contamination.
 - Current monitoring of residential wells by CTDEEP and DMC.
 - A long-term monitoring plan will be developed to monitor groundwater contamination after the water line is installed.



Cleanup Update

Major components of EPA cleanup (based on Record of Decision signed in 2005)
cont'd.

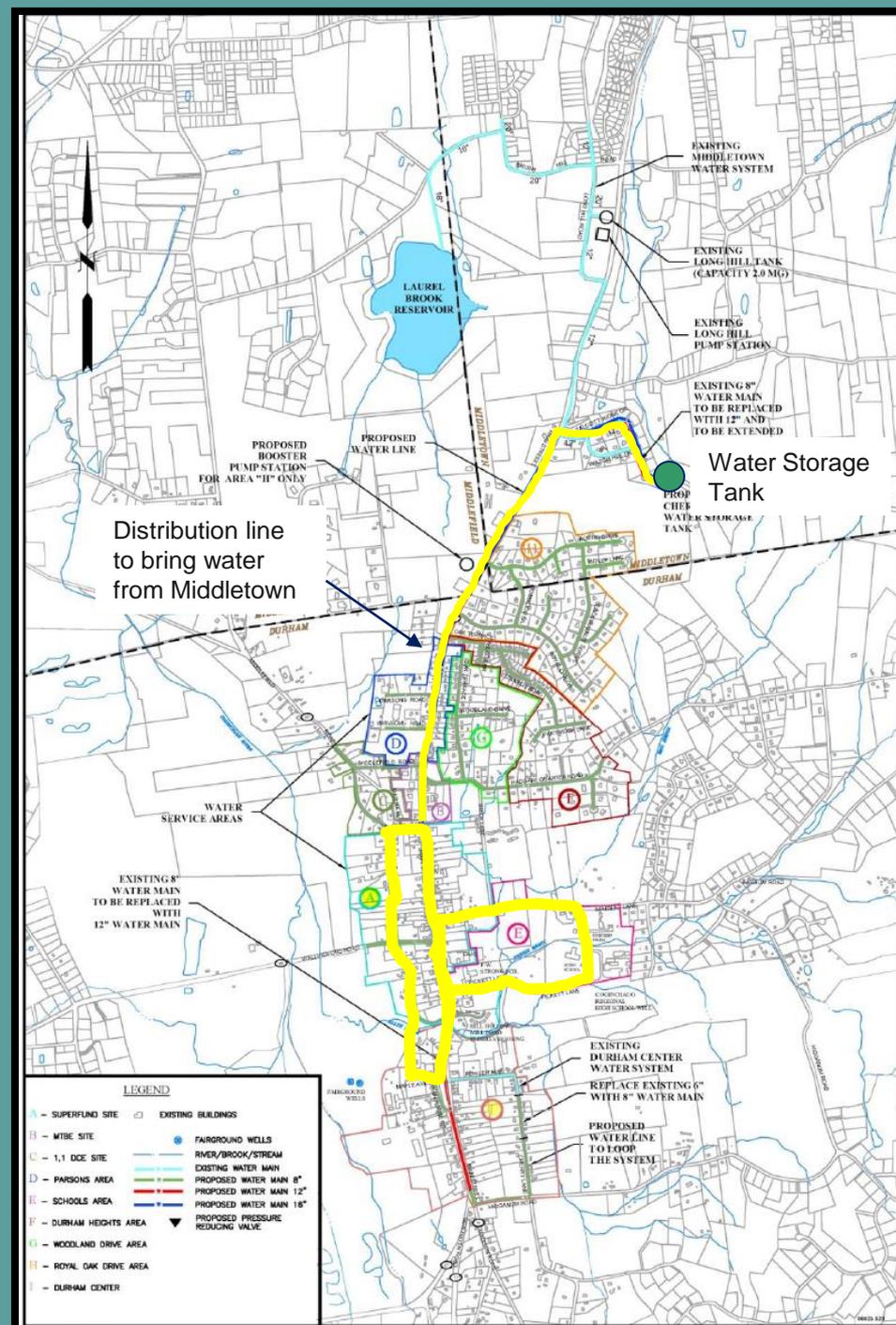
- ◆ Institutional Controls to prevent use of contaminated groundwater or actions that could cause the area of contamination to expand.
 - Groundwater Ordinance.
 - Individual land use restrictions.
- ◆ Periodic Reviews of the Cleanup Action to ensure that it remains protective of human health and the environment.



Cleanup Update

Water Line Design Update:

- ◆ Water is being provided by Middletown.
- ◆ New water tank will provide for good water pressure and storage for fire flows.
- ◆ New distribution line will bring water to area to be served by water line.
- ◆ Existing water services will be disconnected and existing wells will be abandoned for each property connected to the water line.

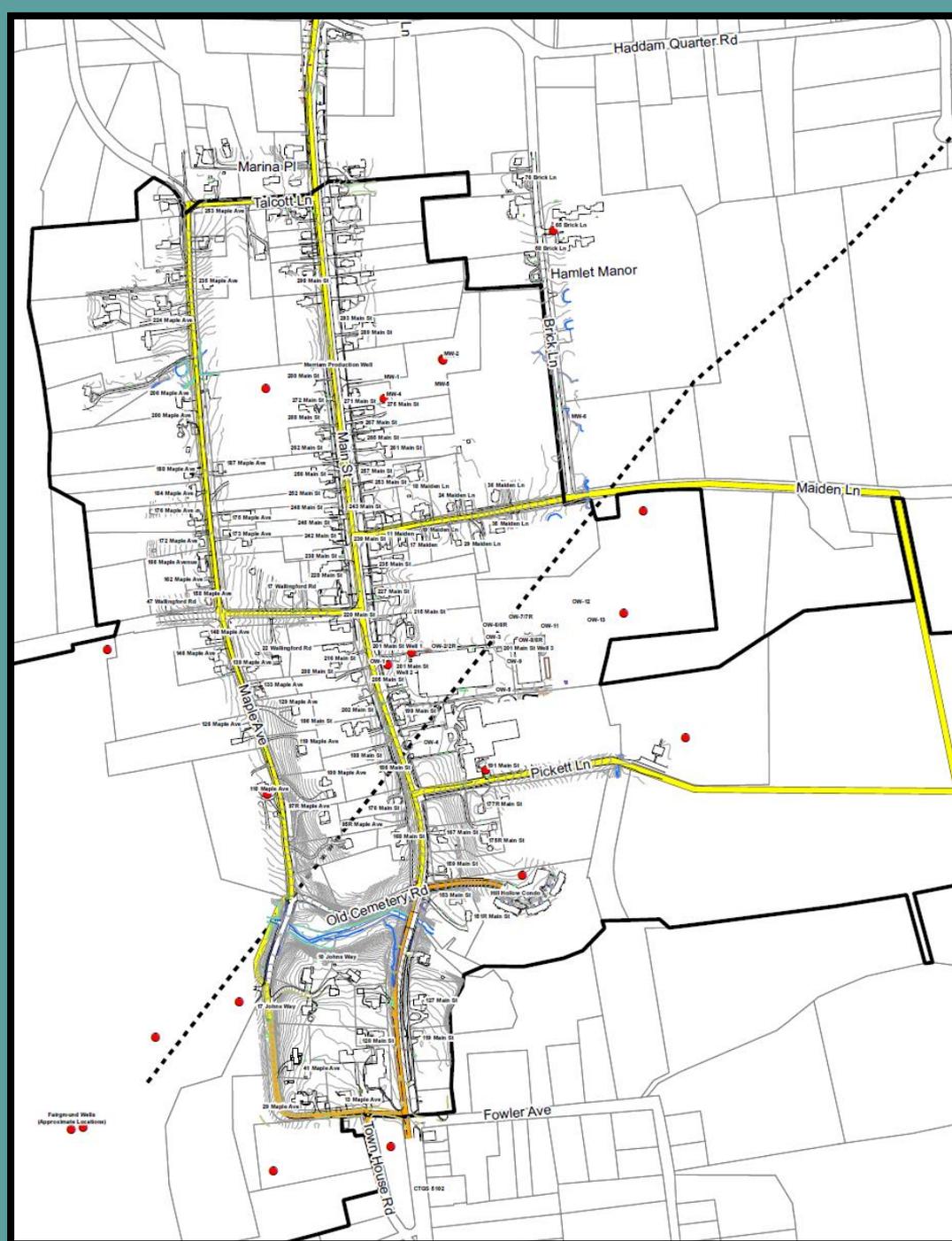


Cleanup Update

Water Line design Update cont'd.

- ◆ Regional School District #13 and the Fairground have been included in the EPA water line project.
- ◆ Water line design will be completed in 2015.
- ◆ Water line construction could begin in 2016.

Note: EPA and CTDEEP are funding the water line installation, individual water service connections, and abandonment of wells – no cost to property owners or Town of Durham for work done as part of Superfund project.



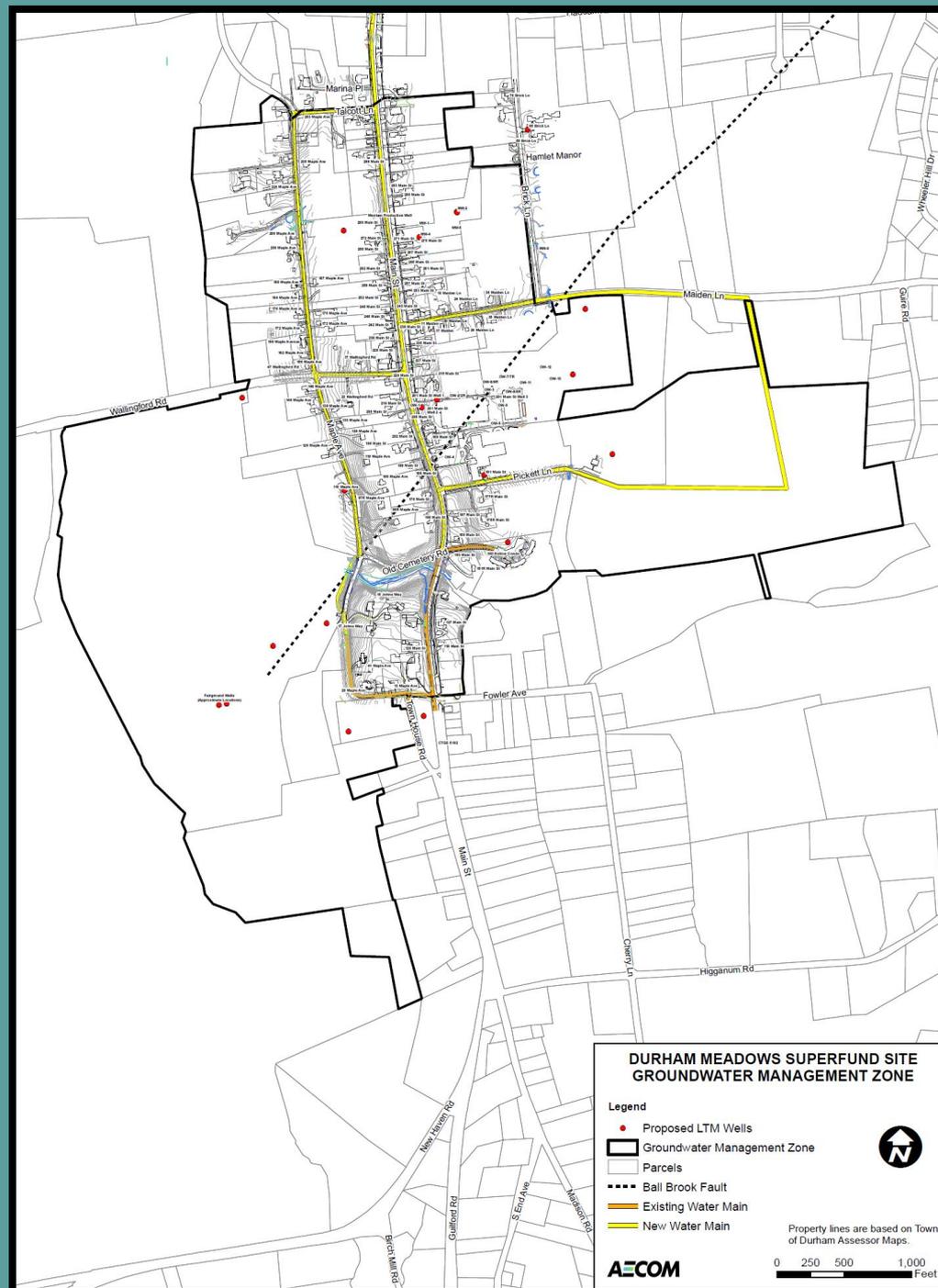
Proposed Groundwater Ordinance

- ◆ Institutional Controls are a required component of the EPA cleanup action.

- Restriction can be either individual property land use restrictions or local ordinances.

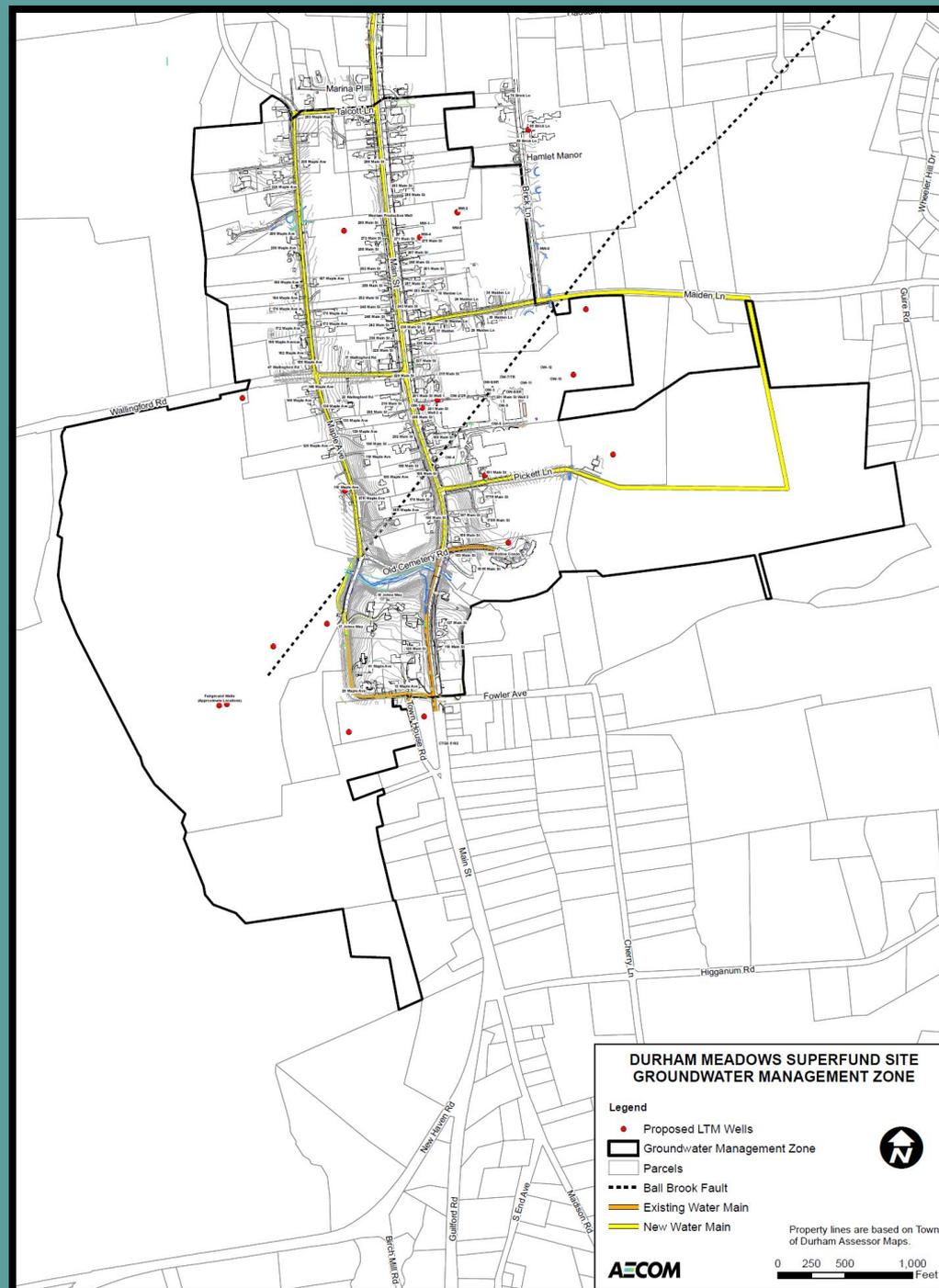
- ◆ Groundwater Ordinance was developed to:

- Prevent consumption of contaminated groundwater.
- Prevent expansion of groundwater contamination due to pumping in areas not currently contaminated.



Proposed Groundwater Ordinance

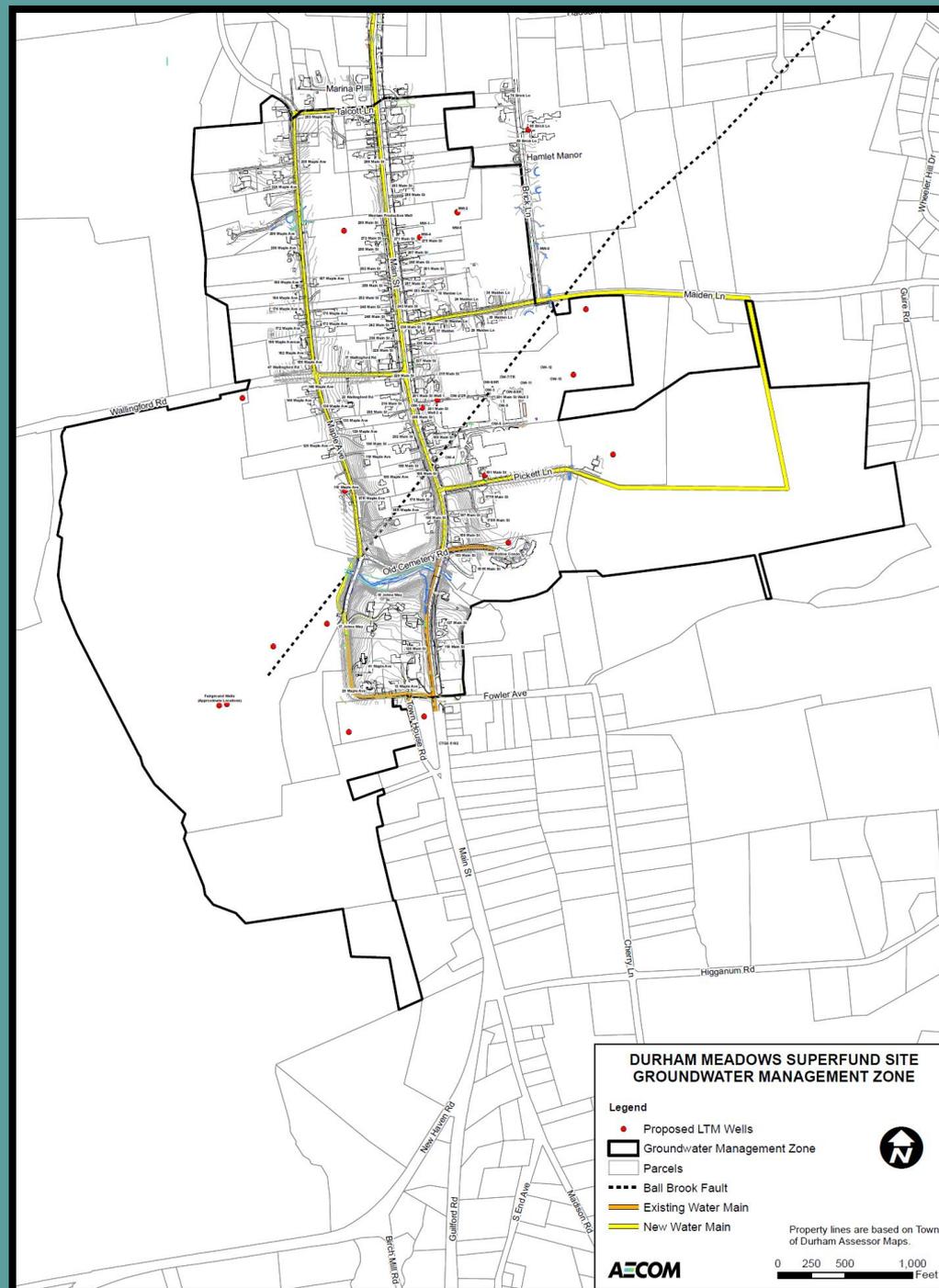
- ◆ Preliminary draft Groundwater Ordinance was made available to public in December 2014.
- ◆ Initial public hearing was held December 16, 2014.
- ◆ May 2015 draft Groundwater Ordinance was revised based on public input.
- ◆ Question and answer format information sheet made available to the public in December 2014 has been updated based on public input.



Proposed Groundwater Ordinance

◆ Key Components of Proposed Groundwater Ordinance:

- Prohibition on the use of water within the Groundwater Management Zone.
- Requirement to connect to the public water supply when it becomes available.
- Abandonment of water supply wells within the Groundwater Management Zone. Well abandonment is needed to:
 - ◆ Ensure long-term protection of public health by preventing use of well in area of contamination.
 - ◆ Address cross-connection risk which could allow contaminated water to be drawn into public water supply.
 - ◆ Prevent groundwater pumping that could cause the extent groundwater contamination to expand.

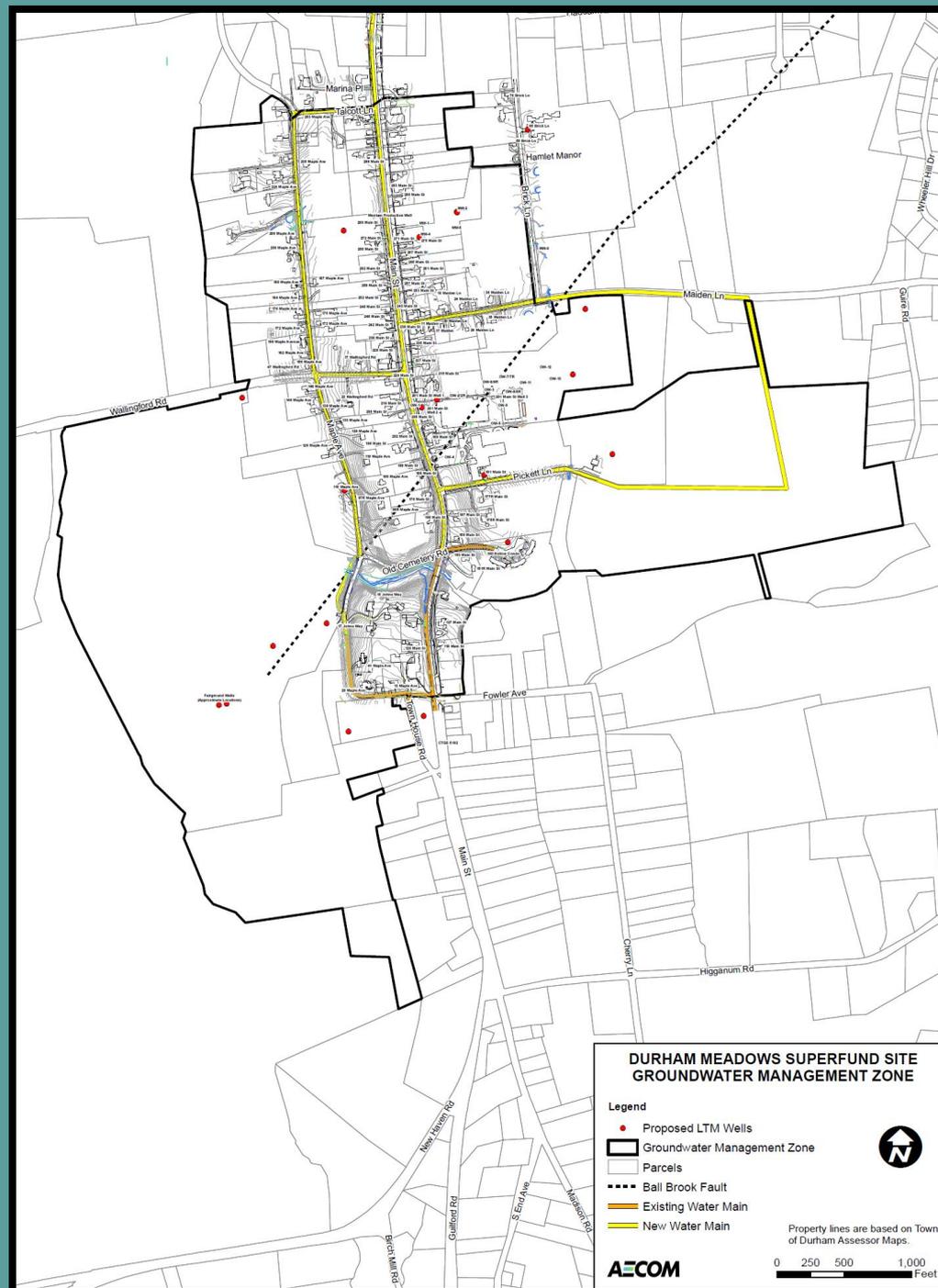


Proposed Groundwater Ordinance

◆ Three exceptions:

- Industrial process well. The only one possible use of this exception would be the existing DMC production well.
- Agricultural irrigation well. Requires approval of Town of Durham Health Department along with testing and reporting requirements.
- New non-potable wells. Requires approval of Town of Durham Health Department along with testing and reporting requirements. Prohibited in areas with contaminated groundwater or in locations that could cause the expansion of the extent of contaminated groundwater.

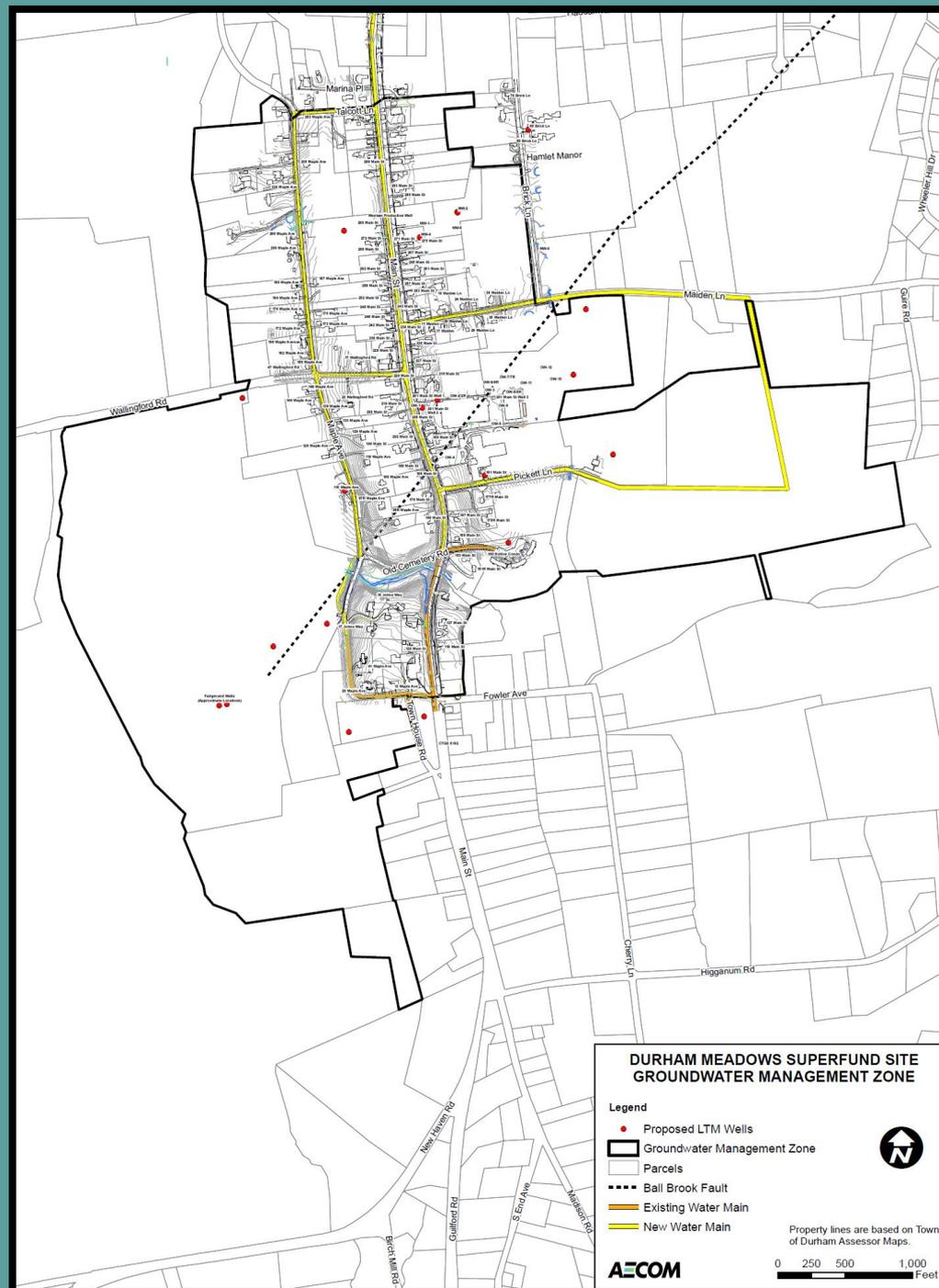
◆ Town levies penalties for violating the Ordinance.



Proposed Groundwater Ordinance

◆ Next steps:

- Board of Selectmen (BOS) hears your concerns tonight.
- BOS will finalize the Groundwater Ordinance based on public input.
- Town Meeting will be scheduled to vote on proposed Groundwater Ordinance.



Proposed Groundwater Ordinance

- ◆ Groundwater Ordinance and map are available on Town of Durham website:

<http://www.townofdurhamct.org/>

For more information about the Durham Meadows Superfund Site, the water line project, or the proposed Groundwater Ordinance:

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