



DEQ

VIRGINIA DEPARTMENT OF
ENVIRONMENTAL QUALITY

Agenda

- Introductions
- What happened; what is being done
- DEQ Alternate Water Supply Program
- Health concerns
- Q & A

Why Hold a Public Meeting?

- Property owners believed to be at risk were notified and their wells were tested
- Case-by-case basis
- Based on experience
- Impact to multiple wells warrants additional notification
- Health department/local officials/public meetings



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Lumber & Hardware

CTGO

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3 Previous Cases

1990 J&J Corner Store

- Moderately contaminated soil; extremely low groundwater contamination.
- Low risk; case closed.

1991 Residence north of J & J

- Low-level petroleum contamination in well water.
- Replacement well installed; case closed.

2004 J&J Corner Store

- Failed TTT; vent line repaired
- No contamination detected; case closed.

Timeline

- Oct 12, 2010: Release reported
- Oct 27: Soil borings/monitoring wells
- Oct 28: DEQ inspected tank system
- Nov 4: Gasoline discovered in groundwater
- Nov 5: Contractor removes gasoline from wells

- **Nov 8:** Store/rental house potable well impacted
MTBE = 3 ppb (EPA health advisory: 20–40 ppb)
Carbon Filter installed
- **Nov 30:** High ethanol detected in groundwater
- **Dec 2:** Second potable well impacted
Benzene = 3 ppb (EPA MCL = 5 ppb)
MTBE = 0.8 ppb (EPA health advisory 20–40 ppb)
Carbon Filter installed

- **Dec 10:** Cleanup system started
- **Jan 2011:** 12 monitoring/recovery wells installed
- **Feb 3:** Tanks removed
- **Feb 10:** Clarke Daily News: *“Gasoline Leak at J & J Requires Tank Replacement and Environmental Cleanup”*
- **Mar 4:** DEQ requires Corrective Action Plan (CAP)
- **Apr:** Pilot study

- **May 20**: CAP submitted (2 weeks early)
- **Jun 6 & 13**: Public Notice in Northern VA Daily
- **Jun 17**: Third potable well impacted

MTBE = 1.2 ppb (EPA health advisory = 20-40 ppb)

DIPE = 13.8 ppb (no EPA standard)

Carbon Filter installed

- **Sept 13**: Fourth potable well impacted

DIPE = 1.6 ppb (no EPA standard)

Carbon Filter installed



CITGO

Citgo
2.99
3.79
3.89

23 TR110

Upcoming Work

- Sampling additional potable wells
- More monitoring wells
- Replacement well for store
- Continued pumping

DEQ's Alternate Water Supply Program

- Bottled water
- Carbon Filter (with owner's permission)
- Public water connection
- Drill replacement well
- Drilling replacement well off-property
- Community well

Water Supply Options

- Carbon Filters
- Public water
- Replacement water wells

Health Concerns

Based on current data, no risk:

- Surface soils
- Vapors in houses or basements
- Atmosphere
- Using potable water *after filtration through Carbon Filter*
- Potential risk to other wells, springs and surface waters (these risks will be monitored)



***And now a word from
your local health
department....***

Questions?

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