

Regional Source Water Protection Plan

Project Update

Directors of Utilities Committee
November 4, 2015

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Source Verification & VDH Maps/Reports

Utility	Wells	Intakes	Corrections Pending	VDH Maps/Reports
Chesapeake	7	2	1 location error; 1 missing	7/9 sets complete
Franklin	4	0	1 source location error	4/4 sets complete
Gloucester	1	1	none*	2/2 sets complete
Isle of Wight	13	0	2 sources missing	11/13 sets complete
James City	30	0	4 sources missing	30/34 sets complete
Newport News	8	6	2 source location errors	12/14 sets complete
Norfolk	4	5	none*	9/9 sets complete
Portsmouth	5	3	7 (1 location error; 6 missing)	1/8 sets complete
Smithfield	5	0	None	5/5 sets complete
Southampton	9	0	4 source location errors	5/9 sets complete
Suffolk	6	2	none*	6/6 sets complete
Virginia Beach	0	3	none	3/3 sets complete
Williamsburg	1	1	1 source missing	1/1 set complete
Windsor	2	0	none	2/2 sets complete

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2015 VAMILIS State GIS Conference
 October 20, 2015 VDH Presentation

SWAP GIS Outputs

- GIS Custom Toolbar
- Enhanced Maps and Reports
 - ✓ Potential Sources of Contamination
 - **NEW** Soils
 - Impaired Waterways
 - ✓ Land Use
- Arc Hydro
- Data Archiving and Sharing
- Point Drop Reporting

Class	Acres	Percent
Crop	498	25
Hardwood Forest/ Pine Forest/ Mixed Forest	1,226	61
Pavement	61	3
Residential/Industrial	76	4
Water	10	0

Impairment	Source	Stream Miles	Waterbody Acres
Escherichia coli	On-site Treatment Systems (Septic Systems and Aged Systems), Wildlife Other than	19.35	0
	Unknown, Livestock (Grating or Pile), Unspecified Domestic Waste	19.3	0

Map Label	Hydrologic Group	Mapunit Name	Water Table (ft)	Bedrock Depth (ft)	Acres	Percent
CgC	B	Chester-Glenalg cobbly loams, sloping		3	0.1	
EgE	B	Chester-Glenalg cobbly loams, steep		20	1.4	
ChC	B	Chester-Glenalg loams, sloping		53	2.7	
ChC2	B	Chester-Glenalg loams, sloping, eroded		31	1.6	
ChE	B	Chester-Glenalg loams, steep		102	5.1	



VDH SWAP GIS Data

- Sources (intakes and wells)
- SWAP Zones 1 and 2 (surface water only)
- Reference:
 - Impaired Streams
 - Impaired Waterbodies
 - Land Use/Land Cover
 - Soils
 - Roads
 - Rails (VDOT data)
- Potential Sources of Contamination (PSCs):
 - Airports
 - Boat Ramps
 - Golf Courses
 - Hospitals
 - Industrial Sites
 - Landfills
 - Marinas
 - Mines
 - RCRA Sites
 - Storage Tank Releases
 - Superfund Sites
 - Tire Piles
 - Underground Injection Wells
 - NPDES Discharges



Regional GIS Data (HRPDC)

- Municipal Reservoirs
- Railways (includes owner and status)
- Land Use

- Wastewater Pump Stations
- Wastewater Trunk Lines/Mains



Staff proceed with data call?

- Oil and Gas Pipelines (generalized)

Discuss with subcommittee