



Water Management Plans: Oil and Gas Workshop, 10/24/2012



Presented by:
Jason Harmon



west virginia department of environmental protection

Agenda items

- WMP Program overview
- Signage requirements

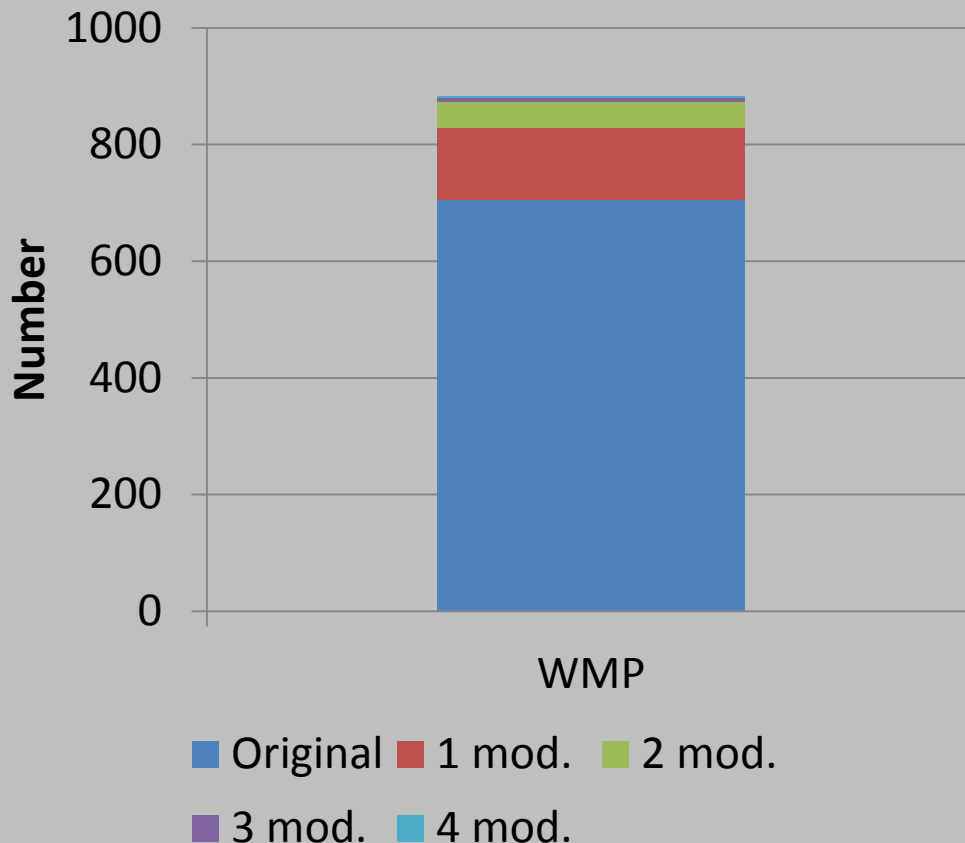
WMPs by the numbers

From 12/01/2011 to 09/13/2012

- 706 unique approved WMPs
 - 669 well applications
 - All §22-6A wells
 - Modified pre-§22-6A wells
 - 37 centralized impoundments

WMPs by the real numbers

Water Management Plans

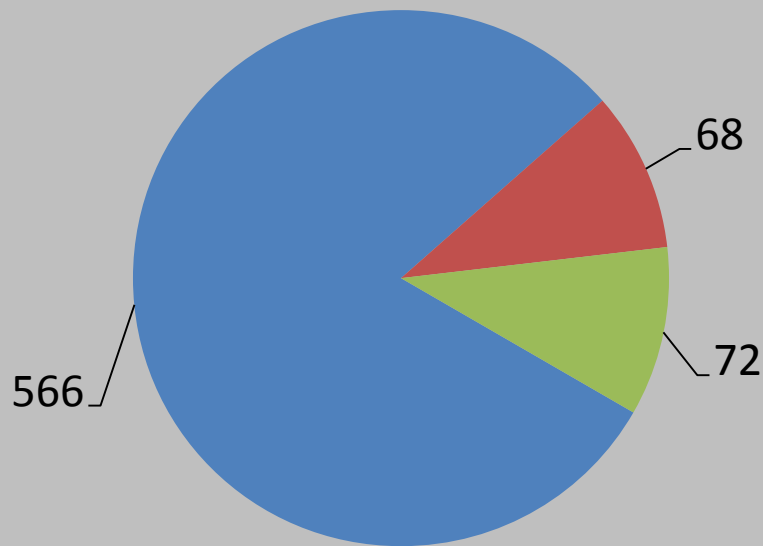


To date:

- 706 original WMPs
- 176 modifications
- Grand total of 882 approved WMPs (+25%)

WMPs by the even realer numbers

Water Management Plans



■ Planned ■ Active ■ Complete

72 plans have been completed

- 42 modified 1 time
- 14 modified 2 times
- 3 modified 3 times
- 2 modified 4 times

Grand total 133 WMP approvals (+85%)

Why are WMPs modified?

Additional Sources

- Drought-like summer
- Growing pains
- Poor planning

Withdrawal date ranges

- Changing drilling/frac schedule
- Crew availability

Date range modifications

Start date changed by (months)	% of plans
>12	0
9-12	2.7
6-9	6.3
3-6	34.5
1-3	31.3
0-1	25

Date range modifications

What we've learned in a year:

- Operators are not typically competing for the same streams/rivers
- 97% of date range changes are less than 9 months from original plan

Solution:

- Extend maximum withdrawal date range windows to 12 months

Signage

§22-6A-8(g)(6)(B) Signage for water withdrawal locations.

- All water withdrawal locations and facilities identified in the water management plan shall be identified with a sign that identifies that the location is a water withdrawal point, the name and telephone number of the operator and the permit numbers(s) for which the water withdrawn will be utilized.

Signage

- Must be installed at all sources identified in the WMP.
- Must be installed within 24 hours of activating the WMP.
- Signage requirements will be enforced.

Questions?

- Contact

Jason Harmon

(304) 926-0499 ext 1271

henry.j.harmon@wv.gov