OSS Plan Advisory Committee: March 13, 2014

Part 5 - Education

Meeting objectives

- Review Thurston County's current O&M and OSS education program
- Discuss what a comprehensive education program should include

What to keep?

What to add?

What to discontinue?

Education goals:

- Program that protects public health
- Program that protects ground and surface water resources
- Program that protects owner's investment
- Education that gets to the user
- ...
- ...
- ...

Education element includes:

- Owner responsibility
- OSS information
- Reminders and encouragement to maintain
- Funding mechanism

Education 'vehicles' include:



- Permits new OSS, repair OSS, time of transfer
- Operational certificates
- Classes
- Websites
- Brochures
- Newspaper articles
- Public service 'announcements'

What exists now...

Summary of Findings

- Current O&M program
- Questionnaires
- Puget Sound counties

Thurston County OSS Stats

Hende 5928 pa		Nisqua 3781 pa	•	County Required OPCs		•		Known OSS with No Special O&M Req'd'	Unknown OSS	
Systems	6510	Systems	4195	Systems	2943	24,782	X 1 5 / ()	Need to nventory		
Total # of Systems in O&M programs: 13,648 Estimated total # OSS in County: 70,000				56,352 = 8	0% of OSS					





Number of 'New System Approvals'



Year	Henderson	Nisqually	County Required	County Other Recommendations when installed
2007	0	#N/A	0	609
2008	2	#N/A	0	412
2009	4	#N/A	0	242
2010	9	#N/A	0	250
2011	67	#N/A	64	207
2012	58	5	75	150
Total	140		139	1870

Time of Transfer Applicants



Year	Henderson	Nisqually	County Required		vento portui
2010	34	#N/A	22	239	
2011	124	#N/A	78	929	
2012	173	100	98	985	
Total	331	100	198	2153	

Operational Certificate Renewal Notices



Year	Henderson	Nisqually	County Required
2007	2016	#N/A	1164
2008	2060	#N/A	1089
2009	2379	#N/A	1026
2010	1854	#N/A	1053
2011	1946	#N/A	1020
2012	2043	*1424	894♦

^{*}Nisqually has approximately 1424 notices sent annually.

[♦] In 2011 the Washington State Department took over management of all OSS that were designed for flows greater than 3,500 gallons per day. That resulted in a reduction of 100+ *County Req'd* certificates.

TABLE 11

Septic Tank Pump Reports Submitted

* Time of Transfer number is a subset of 'County other'

Year	Henderson	Percent of notices sent	County Req'd	County Other	Time of Transfer*
2007	1294	64%	452	89	
2008	1513	73%	554	121	
2009	1667	71%	565	249	
2010	894	48%	552	1285	76
2011	944	49%	581	2346	370
2012	880	43%	447	2336	383

Inventory opportunity

Year	Henderson	Nisqually	County Req'd
2007	8	N/A	94
2008	8	N/A	91
2009	17	N/A	128
2010	18	N/A	104
2011	30	N/A	172
2012	86	25	171

TABLE 12

Monitoring Reports Submitted



TABLE 13

Compliance Status of Monitored Systems

Area	In Compliance	Non-conforming	Total
Henderson MRA	98	7	105
Nisqually MRA	44	1	45
County	212	42	254

Number of Henderson MRA Failed Dye Tests

Year	Number of Tests	Number of Failed Tests in Henderson	Failed dye test percentage
2007	21	3	14%
2008	38	5	13%
2009	45	3	7%
2010	50	1	2%
2011	51	2	4%
2012	53	1	2%



OSS Repairs Permits

	Henderson				County	
Year	Issued	Installed	% installed	Issued	Installed	% installed
2007	26	24	92%	81	70	86%
2008	21	16	76%	86	78	91%
2009	28	25	89%	84	76	90%
2010	19	17	89%	83	75	90%
2011	21	20	95%	86	80	93%
2012	17	14	82%	50	42	84%
Total	132 / 2%			470 / .8%		

Permitted Tank Replacements

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Findi failu		Hen	derson	County				
	Year	Issued	Installed	Issued	Installed			
	2007	26	24	42	38			
	2008	15	11	28	23			
	2009	24	22	19	13			
	2010	5	5	27	21			
	2011	5	5	17	15			
	2012	9	9	11	8			

Numbers of Sand filter / Mound OSS and Replacement Permits

Henderson	County
Total numb	er of systems
118	1015
199	1023
82	205
399	2243
	118 199 82

		Rebuild / Replace Permits					
Year		Issued	Installed	Issued	Installed		
	2007	1	1	12	11		
	2008	1	1	8	7		
	2009	5	4	4	4		
	2010	0	0	8	7		
	2011	2	2	15	13		
Finding	2012	2	2	11	8		
failures	Total	11	10	58	50		

Days from Repair Permit to Installation

293 OSS: 2003 - 2013

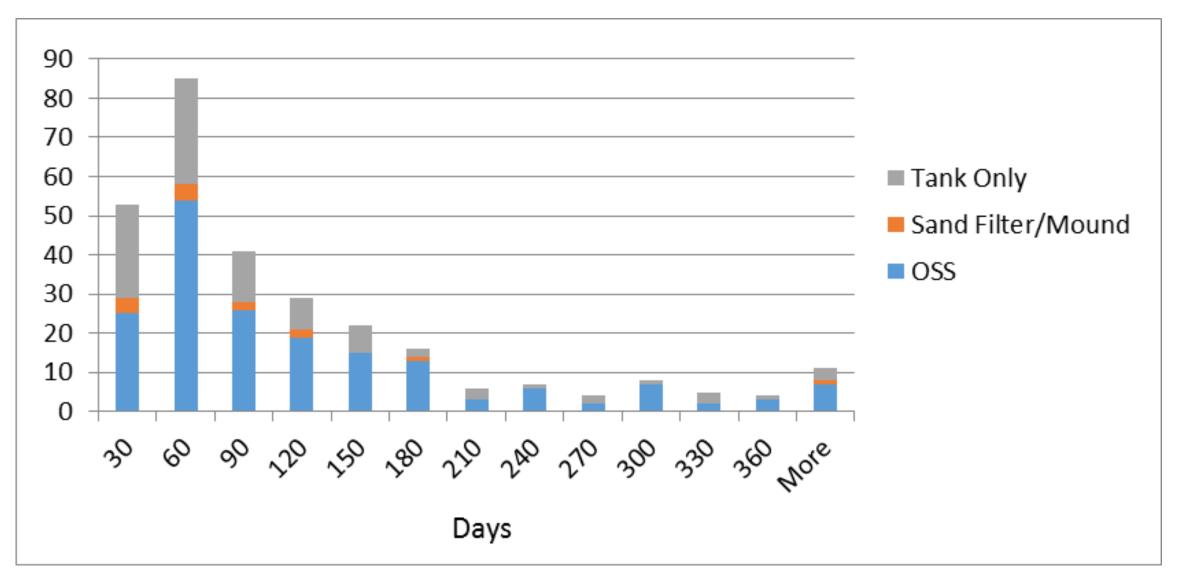


TABLE 18

Minor Repairs



Year	Henderson
2007	# N/A
2008	# N/ A
2009	431
2010	194
2011	184
2012	159



Riser Rebates Awarded

	Н	enderson SPD		N	isqually SPD	
Year	# of	\$ in	# of	# of	\$ in	# of
Teal	Risers	Rebates	OSS	Risers	Rebates	OSS
2007	254	\$12,700.00	154	4	\$200.00	2
2008	372	\$18,600.00	217	4	\$200.00	3
2009	377	\$18,850.00	244	9	\$450.00	5
2010	167	\$8,350.00	98	4	\$200.00	2
2011	140	\$7,000.00	83	38	\$1,900.00	21
2012	117	\$5,850.00	77	44	\$2,200.00	23
TOTAL	1427	\$ 71,350.00	873	103	\$5,150.00	56



Small O&M Grants

	Henderson SPD		Nisquall	ly SPD	
Year	# Grants Approved	\$ Granted	# Grants Approved	\$ Granted	
2007	16	\$4,594.29	2	\$759.50	
2008	26	\$8,408.84	0	\$0.00	
2009	25	\$8,182.21	0	\$0.00	
2010	20	\$6,855.89	1	\$500.00	
2011	22	\$6,035.89	2	\$612.53	
2012	26	\$6,283.10	1	\$420.40	
TOTAL	135	\$40,360.22	6	\$2,292.43	

Repair Grants

	Hend	Henderson Nisqua		qually	County		Grants: All Areas	
Year	# of Grants	Amount	# of Grants	Amount	# of Grants	Amount	# of Grants	Amount
2007	0	0	0	0	1	\$3000	1	\$3000
2008	0	0	0	0	1	\$2800	1	\$2800
2009	6	\$19,655.33	1	\$3750.00	5	\$18,619.82	12	\$42,025.15
2010	2	\$6750	0	0	5	\$21,500	7	\$28,250
2011	6	\$15,250	0	0	8	\$41,750	14	\$57,000
2012	1	\$2250	0	0	1	\$6500	2	\$8750
TOTAL	15	\$43,905.33	1	\$3750.00	21	\$94,169.82	37	\$141,825.15



Repair Loans Nisqually

	Henderson		Nisqually		County		Loans: All Areas	
Year	# of Loans	Amount of Loans	# of Loans	Amount of Loans	# of Loans	Amount of Loans	# of Loans	Amount of Loans
2007	0	0	1	\$14,752.39	2	\$32,315.07	3	\$47,067.46
2008	3	\$47,932.73	0	0	3	\$33,584.76	6	\$81,517.49
2009	0	0	1	\$7,280.39	5	\$56,489.18	6	\$63,769.57
2010	2	\$21,831.09	0	0	1	\$19,480.47	3	\$41,311.56
2011	2	\$26,359.97	0	0	8	\$117,607.41	10	\$143,967.38
2012	2	\$25,268.67	0	0	0	0	2	\$25,268.67
TOTAL	9	\$121,392.46	2	\$22,032.78	19	259,476.89	30	\$402,902.13

In six years, over half a million, \$663,880, of financial assistance has helped Thurston county OSS owners operate, maintain and repair their septic systems.

TABLE 23

Number of OSS in Compliance and Non-conforming

*More components than systems due primarily to additional septic tanks.

	Henderson		Nisqually		County Required	
	Systems	Components*	Systems	Components*	Systems	Components*
In	5483				2475	
Compliance	84%	5601	4195	4274	84%	2713
Non-	1027				468	
conforming	16%	1031	N/A	N/A	16%	489
Total	6510	6632	4195	4274	2943	3202

Number of OSS Made Non-conforming and Number of OSS Reinstated

	Hend	erson	County		
Year	Made Non- Conforming	Reinstated	Made Non- Conforming	Reinstated	Reinstatements due to Time of Transfer
2007			67	37	
2008	1	1	50	24	
2009	80	28	37	14	
2010	565	184	55	26	
2011	273	75	280	118	11
2012	302	66	170	59	24
Total	1221	354 29%	659	278 42%	

Number Attending 2-Hour Workshops



Year	Number of 2 hour workshops	Number attending
1998	5	208
1999	8	245
2000	6	186
2001	6	208
2002	7	174
2003	7	216
2004	8	211
2005	8	155
2006	8	243
2007	4	112+
2008	4	111
2011	2	N/A
Total	73	2039+

Number Attending Homeowner Inspection Certification Training

		Hende	rson	Nisqually	
Year	# of Workshops	Registered	Attended	Registered	Attended
2007	42	603	554	#N/A	#N/A
2008	36	630	546	#N/A	#N/A
2009	37	607	507	#N/A	#N/A
2010	19	338	285	#N/A	#N/A
2011	12	238	209	#N/A	#N/A
2012	15	224	194	124	107
Total	161		2295		

Class questionnaire responses ...

1. Had you been doing your own septic system inspections before attending the class?
 Yes: 14 (20%)
 No: 54 (77%)
 No answer: 2 (3%)

▶ 2. How helpful was the 5-hour homeowner septic system training?

Very helpful: 65 (93%) Somewhat helpful: 5 (7%)

Knew everything before: 0 Waste of time: 0

3. Did you conduct your own inspection of your septic system after attending the class?

Yes: 65 (93%) No: 5 (7%)

▶ 4. Were you confident doing your own inspection?

Easy to do the inspection: 58 (83%) Had some problems: 11 (16%)

Wouldn't do it again: 1

> 5. Did you need help doing the inspection?

No: 57 (81%) Yes: 13 (19%)

Had to call the county: 3 Had to hire a pumper: 5

6. Did your septic tank need pumping?

Yes: 21 (30%) No: 49 (70%)

7. Did you conduct your own inspection when your renewal notice came in 2010, 2011 or 2012?

Yes: 66 (94%) No: 4 (6%)

8. Did you still remember how to do the inspection?

Yes: 62 (88%) No: 8 (12%) Forgot everything: 0

Had to call the county: 1 Had to hire a pumper: 2

> 9. Have you recommended the training to your neighbors?

Yes: 56 (80%) No: 12 (17%) No answer: 2

▶ 10. Would a refresher be helpful? If so, what kind of format would be best for you?

No: 23 (33%) Yes: 47 (67%)

Classroom/septic park: 12

Online tutorial: 26

'How To' brochure: 19

▶ 11. Should the county continue to offer the training?

Yes: 68 (97%) No answer: 2

A few of the pumper questionnaire responses ...

- People are surprised / alarmed that their tank is full
- Need something better than a sock for measuring have trouble measuring the bottom sludge
- Wipes are becoming a serious problem they are <u>not</u> flushable as it says on the package

My observations talking with pumpers:

- Pumpers view their 'service role' differently: strictly business vs educator
- One pumper asks if the owners live in an MRA and encourages homeowners to take the 5 ½ hour training
- Most pumpers have an inspection only option
- Many pumpers have a 'clientele' of loyal customers
- Some pumpers focus on time of transfer service

What are Puget Sound counties doing?

- ▶ The majority of counties have some program in place.
- The programs that have the highest rates of compliance are those within a Marine Recovery Area or sensitive area.
- All counties except Kitsap County place the responsibility to routinely conduct septic system inspections on the property owner.
- Nine counties accept inspection reports conducted by homeowners.
- Whatcom County has led the way in adopting the 2012 legislation enabling charges on county property tax statements for implementing and funding on-site sewage management plans.
- Operation and management of OSS is not a one-time fix; it is an on-going, forever program.

Thurston County Issues:

- **Equity** ... not everyone has the same opportunities or pays the same rate
- Incentives ... how to get OSS owners to fulfill responsibility
- **Efficiency** ... how to prioritize efforts
- Funding ... how to fund a program

Thurston County program review ...

> Strengths ...

Weaknesses ...

When does an OSS owner want to learn?

Will an owner learn if the information isn't important to them?

> How to prioritize education efforts?

To meet the education goal, what should a program include?

How can such a program be made affordable?