

Table 26. Results of Varying Dental and Human Waste Values

% Closure (Estimated / Measured)

POTW	0.056, 17.2	0.035, 11	0.035, 43.6	0.15, 11	0.15, 43.6
NEORS D-e	73%	56.5%	71.6%	129%	145%
NEORS D-s	88%	70.3%	88.5%	158%	177%
NEORS D-w	98%	77.2%	97.0%	172%	192%
Palo Alto	87%	66.1%	93.0%	150%	177%
SRCSD	65%	54.2%	71.5%	96.8%	114%
Westbrook	90%	68.5%	80.3%	175%	187%
WLSSD	75%	58.8%	71.7%	132%	145%

% Reduction due to Pollution Prevention/Voluntary

POTW	0.056, 17.2	0.035, 11	0.035, 43.6	0.15, 11	0.15, 43.6
NEORS D-e	24%	17%	17%	55%	55%
NEORS D-s	20%	15%	15%	41%	41%
NEORS D-w	29%	22%	22%	62%	62%
Palo Alto	14%	9%	9%	34%	34%
SRCSD	23%	18%	18%	43%	43%
Westbrook	58%	40%	40%	135%	135%
WLSSD	12%	7%	7%	30%	30%

% Reduction due to Source Control/Regulatory

POTW	0.056, 17.2	0.035, 11	0.035, 43.6	0.15, 11	0.15, 43.6
NEORS D-e	39%	27%	27%	89%	90%
NEORS D-s	29%	21%	21%	63%	63%
NEORS D-w	44%	31%	32%	97%	98%
Palo Alto	14%	10%	10%	35%	35%
SRCSD	32%	25%	25%	66%	67%
Westbrook	90%	62%	62%	218%	218%
WLSSD	12%	7%	8%	30%	30%

Reduced Influent Concentration due to Pollution Prevention/Voluntary (ppt)

POTW	0.056, 17.2	0.035, 11	0.035, 43.6	0.15, 11	0.15, 43.6
NEORS D-e	108	118	118	63.9	63.9
NEORS D-s	209	232	232	105	105
NEORS D-w	98.1	108	108	52.4	52.4
Palo Alto	212	223	223	161	161
SRCSD	154	163	163	113	113
Westbrook	70.4	99.2	99.2	-58.2	-58.2
WLSSD	102	106	106	80.4	80.4

Reduced Influent Concentration due to Source Control/Regulatory (ppt)

POTW	0.056, 17.2	0.035, 11	0.035, 43.6	0.15, 11	0.15, 43.6
NEORS D-e	87.8	104	104	15	14.6
NEORS D-s	162	200	199	-8.2	-9.2
NEORS D-w	78.5	95.4	94.9	3.5	3.1
Palo Alto	211	222	222	160	160
SRCSD	135	150	149	67.2	66.4
Westbrook	16.3	63.7	63.1	-195	-196
WLSSD	102	106	106	80.3	80

Reduced Effluent Concentration due to Pollution Prevention/Voluntary (ppt)

POTW	0.056, 17.2	0.035, 11	0.035, 43.6	0.15, 11	0.15, 43.6
NEORSD-e	3.25	3.54	3.54	1.92	1.92
NEORSD-s	2.09	2.32	2.32	1.05	1.05
NEORSD-w	2.94	3.25	3.25	1.57	1.57
Palo Alto	5.32	5.61	5.61	4.06	4.06
SRCSD	6.17	6.53	6.53	4.52	4.52
Westbrook	1.41	1.98	1.98	-1.16	-1.16
WLSSD	4.07	4.26	4.26	3.22	3.22

Reduced Effluent Concentration due to Source Control/Regulatory (ppt)

POTW	0.056, 17.2	0.035, 11	0.035, 43.6	0.15, 11	0.15, 43.6
NEORSD-e	2.63	3.12	3.11	0.45	0.44
NEORSD-s	1.62	2.00	1.99	-0.08	-0.09
NEORSD-w	2.36	2.86	2.85	0.11	0.09
Palo Alto	5.29	5.58	5.58	4.02	4.02
SRCSD	5.39	6.00	5.96	2.69	2.65
Westbrook	0.33	1.27	1.26	-3.90	-3.91
WLSSD	4.06	4.26	4.25	3.21	3.20

Number of Agencies Meeting 12 ppt Criteria Based on Average Effluent

POTW	0.056, 17.2	0.035, 11	0.035, 43.6	0.15, 11	0.15, 43.6
Nothing	7	7	7	7	7
Pollution Prevention	7	7	7	7	7
Source Control	7	7	7	7	7

Number of Agencies Meeting 6 ppt Criteria Based on Average Effluent

POTW	0.056, 17.2	0.035, 11	0.035, 43.6	0.15, 11	0.15, 43.6
Nothing	5	5	5	5	5
Pollution Prevention	6	6	6	7	7
Source Control	7	7	7	7	7

Number of Agencies Meeting 1.3 ppt Criteria Based on Average Effluent

POTW	0.056, 17.2	0.035, 11	0.035, 43.6	0.15, 11	0.15, 43.6
Nothing	0	0	0	0	0
Pollution Prevention	0	0	0	2	2
Source Control	1	1	1	4	4

Number of Agencies Meeting 0.2 ppt Criteria Based on Average Effluent

POTW	0.056, 17.2	0.035, 11	0.035, 43.6	0.15, 11	0.15, 43.6
Nothing	0	0	0	0	0
Pollution Prevention	0	0	0	1	0
Source Control	0	0	0	3	3

Annual Treatment Costs With Pollution Prevention/Voluntary Maximum Effluent (\$1000)

POTW	0.056, 17.2	0.035, 11	0.035, 43.6	0.15, 11	0.15, 43.6
NEORSD-e	\$ 150,017	\$ 150,017	\$ 150,017	\$ 100,011	\$ 100,011
NEORSD-s	\$ 157,830	\$ 157,830	\$ 157,830	\$ 105,220	\$ 105,220
NEORSD-w	\$ 29,858	\$ 44,787	\$ 44,787	\$ 14,929	\$ 14,929
Palo Alto	\$ 53,816	\$ 53,816	\$ 53,816	\$ 40,362	\$ 40,362
SRCSD	\$ 226,316	\$ 226,316	\$ 301,754	\$ 0	\$ 0
Westbrook	\$ 2,412	\$ 4,824	\$ 3,618	\$ 3,618	\$ 3,618
WLSSD	\$ 74,958	\$ 74,958	\$ 74,958	\$ 56,219	\$ 56,219

Annual Treatment Costs With Source Control/Regulatory, Maximum Effluent (\$1000)

POTW	0.056, 17.2	0.035, 11	0.035, 43.6	0.15, 11	0.15, 43.6
NEORSD-e	\$ 100,011	\$ 150,017	\$ 150,017	\$ 0	\$ 0
NEORSD-s	\$ 105,220	\$ 157,830	\$ 157,830	\$ 52,610	\$ 52,610
NEORSD-w	\$ 29,858	\$ 29,858	\$ 29,858	\$ 0	\$ 0
Palo Alto	\$ 53,816	\$ 53,816	\$ 53,816	\$ 40,362	\$ 40,362
SRCSD	\$ 226,316	\$ 226,316	\$ 226,316	\$ 150,877	\$ 150,877
Westbrook	\$ 1,206	\$ 2,412	\$ 2,412	\$ 0	\$ 0
WLSSD	\$ 74,958	\$ 74,958	\$ 74,958	\$ 56,219	\$ 56,219

Figure 8. Average Relative Contributions of Mercury Sources

