

Sensitivity of STA Performance to Settling Rate & Target Concentration
BMP Performance: 25% (ECP Design) WY 1979-1988
Comparison of 50Base and Alternative-D13R
Combined Outflows from All Stormwater Treatment Areas

<u>Ke (m/yr)</u>	WCA-2A				
	STA Design	Low Est.	Water Col.	<----- ENR Project ----->	----->
	<u>10.2</u>	<u>8.0</u>	<u>12.0</u>	<u>15.0</u>	<u>20.0</u>

STA Outflow Concentrations for ECP Treatment Areas (ppb)

ALT-D13R	49	60	41	32	21
50Base	55	68	46	35	23
Difference	-6	-8	-5	-3	-2
%Difference	-10.9%	-11.7%	-10.3%	-9.4%	-7.7%

Treatment Areas (acres) to Achieve

30 ppb

ALT-D13R	59682	77565	50215	39718	29457
50Base	63672	82583	53627	42465	31530
Difference	-3989	-5019	-3412	-2748	-2073
%Difference	-6.3%	-6.1%	-6.4%	-6.5%	-6.6%

Treatment Areas (acres) to Achieve

20 ppb

ALT-D13R	78084	102072	65505	51649	38192
50Base	80891	105471	67951	53655	39732
Difference	-2807	-3399	-2445	-2006	-1539
%Difference	-3.5%	-3.2%	-3.6%	-3.7%	-3.9%

Treatment Areas (acres) to Achieve

10 ppb

ALT-D13R	114087	152884	94638	73782	54017
50Base	114659	153085	95290	74442	54605
Difference	-572	-202	-653	-659	-588
%Difference	-0.5%	-0.1%	-0.7%	-0.9%	-1.1%

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