

Sensitivity of STA Performance to Settling Rate & Target Concentration
BMP Performance: 51% (1995-1997) **WY 1979-1988**
Comparison of 50Base and Alternative-D13R
Combined Outflows from All Stormwater Treatment Areas

	WCA-2A				
	STA Design	Low Est.	Water Col.	<----- ENR Project ----->	
<u>Ke (m/yr)</u>	<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	41	50	35	27	18
50Base	41	51	35	26	17
Difference	-1	-1	0	0	1
%Difference	-1.4%	-2.7%	-0.5%	1.0%	3.0%

Treatment Areas (acres) to Achieve

30 ppb

ALT-D13R	51609	67259	43358	34238	25353
50Base	52098	67839	43788	34594	25628
Difference	-489	-580	-430	-356	-275
%Difference	-0.9%	-0.9%	-1.0%	-1.0%	-1.1%

Treatment Areas (acres) to Achieve

20 ppb

ALT-D13R	70160	92023	58753	46234	34123
50Base	69542	91113	58269	45882	33883
Difference	617	909	484	352	240
%Difference	0.9%	1.0%	0.8%	0.8%	0.7%

Treatment Areas (acres) to Achieve

10 ppb

ALT-D13R	106448	143348	88081	68487	50011
50Base	103741	139504	85905	66848	48852
Difference	2706	3845	2176	1639	1159
%Difference	2.6%	2.8%	2.5%	2.5%	2.4%

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