DRAFT Table 8-1a Project Data for MZ3/MZ4/MZ5 Sustainability Projects

Project	Management Zone	Summary of Key Project Features	New Recharge (acre-ft/yr)	Capital Cost (\$)		Annualized Capital Cost (\$)	Annual O&M Cost (\$)		Supplemental Water Acquisition Cost (\$)	Total Annual Cost (\$)	Unit Cost (\$/acre-ft)	Reliability of the Water Supply	Production Sustainability Score ³	
CDA MZ3 In-Lieu ¹	3	Ontario sale of 5,000 acre-ft/yr of their CDA water to JCSD using existing connections	5,000	\$	-	\$ -	\$ -	\$ 827	\$ -	\$ 4,135,000	\$ 827	High	2	
OGRP Project ²	3	Installation of one well and pipe enlargements	2,903	\$ 4,2	222,500	\$ 274,700	\$ -	\$ -	\$ -	\$ 274,700	\$ 95	High	2	

^{1.} The Other Annual Cost for the CDA Mz3 In-Lieu project is the Fiscal Year 2013/14 net cost/AF for JCSD after LRP credit. Source is Exhibit A of the June 6, 2013 CDA Special Board of Directors Meeting Agenda. Note that this cost does not reflect a credit for the avoided cost of pumping by JCSD.

^{2.} The total estimated costs for the well and pipeline were derived from Table 9 of the Ontario Groundwater Recovery Project engineering report (Carollo, 2013). The production rate was assumed to be 2,000 gpm (2,900 acre-ft/yr at an operating factor of 90%)

^{3.} The production sustainability score is a tool to characterize a project's contribute to production sustainability (a necessary but not sufficient condition of sustainability); 1 – contributes significantly to production sustainability; 1 – contributes minimally to production sustainability (a necessary but not sufficient condition of sustainability); 2 – contributes significantly to production sustainability (a necessary and sufficient condition of sustainability).

DRAFT Table 8-1b
Screening of MZ3/MZ4/MZ5 Sustainability Projects

Project	New Recharge (acre-ft/yr)	Unit Cost (\$/acre-ft)	Capital Cost (\$)	Reliability of the Water Supply	Water Quality Challenges	Institutional Challenges
CDA MZ3 In-Lieu	5,000	\$ 827	\$ -	High	None	
OGRP Project	2,903	\$ 95	\$ 4,222,500	High	None	

DRAFT Table 8-1c
Ranked MZ3/MZ4/MZ5 Sustainability Projects

Project	New Recharge (acre-ft/yr)	Unit Cost (\$/acre-ft)	Capital Cost (\$)				
Recommended Projects							
OGRP Project	2,903	\$ 95	\$ 4,222,500				
CDA MZ3 In-Lieu	5,000	\$ 827	\$ -				
Total of Recommended Projects	?	7	?				
Other Projects							

DRAFT Table 8-2a **Project Data for Yield Enhancement Projects**

									Sto	rm Water Recharg	e							Recycled V	Water Recharge						lm	orted Water Rec	charge				All Recharge			
Project D	Group ¹	Project	Man. Zone		Potential Cost	Baseline Storm	New Storm Co	nstructed for			Annualized	Annual O&M	Total Annu	nual Storm Wat	ter New Reco	cled		Anı	nnualized An	nnual O&M	Total Annual	Recycled Water	New Imported			Annualized	Annual O&N	VI Total Anni	ual Imported Wat	Total New Storn er and			dditional	Production
Combinations	Group	Project	Iviali. Zone	Summary of Key Project Features S		Water Recharge W	ater Recharge	Regulatory	Project Complete?	Capital Cost (\$)	Capital Cost	Cost	Cost	Recharge U	Jnit Water Rec	narge Recycled	d Water Capit on Cost ³ (ital Cost (\$) Cap	pital Cost	Cost	Cost	Recharge Unit	Water Recharge		Capital Cost (\$)	Capital Cost	Cost	Cost	Recharge Un	t Supplemental	Cost	All New	Benefit Sus	ustainability Score ⁵
						(acre-ft/yr)	(acre-ft/yr) C	ompliance?			(\$)	(\$)	(\$)	Cost ²	(acre-ft,	yr)			(\$)	(\$)	(\$)	Cost ²	(acre-ft/yr)	.,		(\$)	(\$)	(\$)	Cost ²	Water (acre- ft/yr)	(\$) F	echarge		
Proposed Projects in Table 6-1 that Were Analyzed in Detail																																		
	а	Montclair Basins		Transfer water between Montclair Basins and deepen MC 4	N	1,188	71	N	N	\$ 5,450,000	\$ 354,500	\$ 2,631	\$ 357,	7,131 \$ 4,	,997 0	\$	- \$	- \$	- \$	- !	\$ -	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$	- \$ -	71	\$ 5,450,000 \$	4,997		0
	а	Montclair Basins Montclair Basins		New drop inlet structures to MC 2 and MC 3	N	1,188	248	N	N	\$ 1,500,000	\$ 97,600			6,732 \$ 2.700) \$	430 0	\$	- \$	- \$	- \$	- !	\$ -	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$	- \$ -	248	\$ 1,500,000 \$	430	v19	0
	a a	Montclair Basins		Automate inlet to MC 1 ⁶ Construct low-level drains from Basin 1 to 2 and 2 to 3	N N	1,188 1,188	0	N	N	\$ 50,000 \$ 790,000	\$ 3,300 \$ 51,400		, , ,	1,400 \$	- 0	\$	- \$ - \$	- \$ - \$	- \$ - \$	- !	\$ - \$ -	\$ -	0	\$ -	\$ - \$ -	\$ -	\$ -	\$ \$	- \$ -	0	\$ 50,000 \$ \$ 790,000 \$	-	Y	0
	а	North West Upland Basin	1	Increase drainage area and basin enlargement	N	29	93	N	N	\$ 5,990,000	\$ 389,700	\$ 3,441		3,141 \$ 4,	,207 0	\$	- \$	- \$	- \$	- !	\$ -	\$ -	0	\$ -	, \$ -	\$ -	\$ -	\$	- \$ -	93	\$ 5,990,000 \$	4,207		0
	a	Princeton Basin	2	Increase drainage area	N	48	20	N	N	\$ 100,000	\$ 6,500	\$ 745	5 \$ 7,	7,245 \$	358 0	\$	- \$	- \$	- \$	- !	\$ -	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$	- \$ -	20	\$ 100,000 \$	358		0
	b	San Sevaine Basins	2	Construct pump station, pump water from SS 5 to SS 3, and construct internal berm in SS 5 ⁷	Y	1,177	642	N	N	\$ 1,775,000	\$ 115,500	\$ 23,641	\$ 139,	9,141 \$	217 1,911	\$ 3	372,645 \$ 1	1,775,000 \$	115,500 \$	45,311	\$ 533,456	\$ 279	0	\$ -	\$ -	\$ -	\$ -	\$	- \$ -	2,553	\$ 3,550,000 \$	263		0
	b	San Sevaine Basins	2	Extend IEUA recycled water pipeline to SS 3 and construct internal berm in SS 5 ⁷	Y	1,177	345	N	N	\$ 1,140,000	\$ 74,200	\$ 12,719	\$ 86,	6,919 \$	252 1,911	\$ 3	372,645 \$ 1	1,140,000 \$	74,200 \$	45,311	\$ 492,156	\$ 258	0	\$ -	\$ -	\$ -	\$ -	\$	- \$ -	2,256	\$ 2,280,000 \$	257		0
	a	San Sevaine Basins	2	Construct internal berms in SS 1 and SS 2 and install a gate between SS 1 and SS 2	N	1,177	0	N	N	\$ 300,000	\$ 19,500	\$ -	\$ 19,	9,500 \$	- 0	\$	- \$	- \$	- \$	- :	\$ -	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$	- \$ -	0	\$ 300,000 \$	-	Y ²⁰	0
	a	San Sevaine Basins		Increase CB13T capacity and power supply	N Y	1,177	0	N	N	\$ -	\$ -	\$ -	\$	- \$	- 0	\$	- \$	- \$	- \$	- !	\$ -	\$ -	1,235	\$ 766,935	\$ 1,980,000	\$ 128,800	0 \$ 29,2	83 \$ 925	018 \$ 7	1,235	\$ 1,980,000 \$	749		0
	a b	Victoria Basin Lower Day Basin (2010 RMPU)		Abandon the mid-level outlet and extend the lysimeters Inlet improvements, rebuilding embankment, elimination of mid-level outlet	Y N	439 395	48 789	N N	N N	\$ 75,000 \$ 2.480.000	\$ 4,900 \$ 161,300			6,651 \$ 0.341 \$	140 120 241 0	\$	23,400 \$	75,000 \$ - \$	4,900 \$ - \$	2,845	\$ 31,145 \$ -	\$ 260 \$ -	0	\$ -	\$ - \$ -	\$ -	\$ - \$ -	\$ \$	- \$ - - \$ -	168 789	\$ 150,000 \$ \$ 2,480,000 \$	226		0
	b	Lower Day Basin	2	Install gate on mid-level outlet	N	395	75	N	N	\$ 600,000				1,777 \$	554 0	\$	- \$	- \$	- \$	- !	\$ -	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$	- \$ -	75	\$ 600,000 \$	554		0
	а	Turner Basin		Raise Turner 2 spillway ⁸	N	1,226	66	N	N	\$ 890,000	\$ 57,900			0,326 \$	916 0	\$	- \$	- \$	- \$	- !	\$ -	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$	- \$ -	66	\$ 890,000 \$	916		1
	a	Ely Basin Ontario Bioswale Project		Basin enlargement and increased drainage area New bioswale	N N	1,103	221	N	N	\$ 11,620,000 \$ 650,000	\$ 755,900 \$ 42,300			4,022 \$ 3, 2,577 \$,464 0	\$ \$	- \$ - \$	- \$ - \$	- \$ - \$	- ;	\$ - \$ -	\$ - \$ -	0	\$ -	\$ - \$ -	\$ -	\$ - \$ -	\$. \$	- \$ - - \$ -	221	\$ 11,620,000 \$ \$ 650,000 \$	3,464		0
	a	Lower San Sevaine Basin (2010 RMPU)		New basin	Y	0	1,221	N	N	\$ 16,645,000	\$ 1,082,800	•	7	7,747 \$	924 500	\$	97,500 \$ 16	6,645,000 \$	1,082,800 \$	11,855	\$ 1,192,155	\$ 2,384	0	\$ -	\$ -	\$ -	\$ -	\$	- \$ -	1,721	\$ 33,290,000 \$	1,348		0
	а	CSI Storm Water Basin		Deepen basin by 10 feet	N	72	81	N	N	\$ 900,000	\$ 58,500	\$ 2,998	\$ \$ 61,	1,498 \$	755 0	\$	- \$	- \$	- \$	- !	\$ -	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$	- \$ -	81	\$ 900,000 \$	755		0
	С	Wineville Basin (2010 RMPU)	3	Gate the low-elevation outlet, replace embankment with dam, and construct a pneumatic gate on the spillway ⁹	Y	5	2,157	N	N	\$ 3,140,000		,	,	3,738 \$	132 630	\$ 2	122,850 \$ 3	3,140,000 \$	204,300 \$	14,938	\$ 342,088	\$ 543	0	\$ -	\$ -	\$ -	\$ -	\$	- \$ -	2,787	\$ 6,280,000 \$	225	. 21	2
	c b	Jurupa Basin RP3 Basin Improvements (2010 RMPU)		Inlet improvements and CB-18 turnout modifications Inlet improvements and enlargement	N N	234 628	421 406	N N	N N	\$ 1,900,000 \$ 22,040,000	\$ 123,600 \$ 1,433,700			9,116 \$ 8 631 \$	572 0	\$	- \$	- \$ - \$	- \$ - \$	- :	\$ - \$ -	\$ -	0	\$ -	\$ - \$ -	\$ -	\$ -	\$	- \$ -	421 406	\$ 1,900,000 \$ \$ 22,040,000 \$	330 3,572	Y	2
	b, c	RP3 Basin Improvements (2013 RMPU)		Increase conservation storage ¹⁰	Y	628	137	N	N	\$ 2,645,000					,289 2,905	\$ 5	566,475 \$ 2	2,645,000 \$	172,100 \$	68,879	\$ 807,454	\$ 278	0	\$ -	\$ -	\$ -	\$ -	\$	- \$ -	3,042	\$ 5,290,000 \$	324		2
Includes PID's 19,20,22	d	2013 RMPU Proposed Wineville PS to Jurupa, Expanded Jurupa PS to RP3 Basin with 2013 Proposed RP3		2010 RMPU Proposed Wineville Basin Improvements, Wineville 20 cfs PS to Jurupa, Improved Jurupa Basin Inlet, 40 cfs PS to RP3 Basin with Proposed 2013 RMPU RP3	Υ	867	3,166	N	N	\$ 8,720,000	\$ 567,200	\$ 498,576	5 \$ 1,065,	5,776 \$	337 3,535	\$ 6	689,325 \$ 8	8,720,000 \$	567,200 \$	83,817	\$ 1,340,342	\$ 379	0	\$ -	\$ -	\$ -	\$ -	\$	- \$ -	6,701	\$ 17,440,000 \$	359		2
	a	Improvements Vulcan Pit		Construct new inflow and outflow structures ¹¹	Υ	0	857	N	N	\$ 15,790,000	\$ 1,027,200	\$ 31,548	3 \$ 1,058,	8,748 \$ 1,	,236 840	\$ 2	163,800 \$ 15	5,790,000 \$	1,027,200 \$	19,917	\$ 1,210,917	\$ 1,442	0	\$ -	\$ -	\$ -	\$ -	\$	- \$ -	1,697	\$ 31,580,000 \$	1,338		1
	а	Sierra		Deepen basin by 10 feet	N	12	64	N	N	\$ 1,000,000					,056 0	\$	- \$	- \$	- \$	- !	\$ -	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$	- \$ -	64	\$ 1,000,000 \$	1,056		1
	a a	Sultana Avenue Declez Basin		Deepen basin by 10 feet Reconstruct existing embankment and install a gate on the low level outlet 12	N N	89 674	7	N N	N N	\$ 1,020,000 \$ 4,070,000	\$ 66,400 \$ 264,800				,499 0 .135 0	\$	- Ş	- Ş	- \$ - \$	- :	\$ -	\$ -	0	\$ -	\$ - \$ -	\$ -	\$ -	\$	- \$ -	241	\$ 1,020,000 \$ \$ 4,070,000 \$	9,499 1.135		1 2
	ű	200.02 300		Incomstruct existing embanisment and install a gate on the low level outlet		07.				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	φ 20 1,000	,	ations and Mai	42	,133	1	*	*	*		,	Ψ	J	*	*	*	_ *	*	Ť		ι,ο. ο,οσο φ	1,155		
				Increase frequency of basin maintenance																														
	b	Banana Basin (annual cleaning)	3	(Increased infiltration rate to 0.6 ft/day) Increase frequency of basin maintenance	Y	317	11	N	N			\$ 3,183		5,125	294 130		25,350 \$	- \$	- \$	38,159	,	•	0	\$ -	\$ -	\$ -	\$ -	\$	- \$ -	141	\$	474		0
	b	Banana Basin (semiannual cleanings)	3	(Increased infiltration rate to 0.72 ft/day) Increase basin maintenance frequency	Y	317	31	N	N			\$ 15,192		7	495 155		30,225 \$	- \$	- \$	76,744	,		0	\$ -	\$ -	\$ -	\$ -	\$	- \$ -	186	\$	658		0
	b	Declez Basin (annual cleaning)	3	(Increased infiltration rate to 0.66 ft/day)	Υ	674	16	N	N			\$ 6,537	\$ 6,	6,537 \$	409 178	\$	34,710 \$	- \$	- \$	72,735	\$ 107,445	\$ 604	0	\$ -	Ş -	Ş -	\$ -	\$	- \$ -	194	\$	588		0
	b	Declez Basin (semiannual cleanings)	3	Increase basin maintenance frequency (Increased infiltration rate to 0.78 ft/day)	Y	674	47	N	N			\$ 32,923	\$ 32,	2,923 \$	701 210	\$	40,950 \$	- \$	- \$	147,109	\$ 188,059	\$ 896	0	\$ -	\$ -	\$ -	\$ -	\$	- \$ -	257	\$	860		0
	b	Ely Basin (annual cleaning)	2	Increase maintenance frequency (Increased infiltration rate to 0.27 ft/day)	Y	1,103	44	N	N			\$ 29,450	\$ 29,	9,450 \$	668 217	\$	42,315 \$	- \$	- \$	144,868	\$ 187,183	\$ 863	0	\$ -	\$ -	\$ -	\$ -	\$	- \$ -	261	\$	830		0
	b	Ely Basin (semiannual cleanings)	2	Increase maintenance frequency (Increased infiltration rate to 0.33 ft/day) Increase frequency of basin maintenance	Y	1,103	128	N	N			\$ 127,949	\$ 127,	7,949 \$	997 258	\$	50,310 \$	- \$	- \$	257,342	\$ 307,652	\$ 1,192	0	\$ -	\$ -	\$ -	\$ -	\$	- \$ -	386	\$	1,128		0
	b	Hickory Basin (annual cleaning)	2	(Increased infiltration rate to 0.44 ft/day) Increase frequency of basin maintenance	Y	353	7	N	N			\$ 3,812	2 \$ 3,	3,812 \$	518 148	\$	28,860 \$	- \$	- \$	76,622	\$ 105,482	\$ 713	0	\$ -	\$ -	\$ -	\$ -	\$	- \$ -	155	\$	703		0
	b	Hickory Basin (semiannual cleanings)		(Increased infiltration rate to 0.52 ft/day)	Y	353	20	N	N			\$ 17,640			877 175	\$	34,125 \$	- \$	- \$	153,435	\$ 187,560	\$ 1,072	0	\$ -	\$ -	\$ -	\$ -	\$	- \$ -	195	\$	1,052		0
											P	Proposed Projects	s in Table 6-1 t	that Were Not Ana	alyzed																			
		Turner Expansion	2	Basin improvements to the basins east of Archibald Ave and new basins adjacent to Turner 4^{14}																														
		Upland Basin		Construct low level drain ¹⁵																														
			2,3	system ¹⁷																														
		RP3 Basins																																
		Alder Basin		Deepen basin ¹⁷																														
	Ü	Turner Expansion Upland Basin College Heights Lower Cucamonga Basin Management Zones 2 and 3 Capture, Pump and Recharge Jurupa Basin RP3 Basins	2 1 1 2 2,3 3 3	Basin improvements to the basins east of Archibald Ave and new basins adjacent to Turner 4^{14} Construct low level drain 4^{15} Construct internal berms to reduce seepage to the Upland basin 4^{15} Basin enlargement for distribution 4^{17} Capture water in MZ-2 and 3 basins low in the system and pump to basins higher in the system 4^{17} Inlet improvements and basin enlargement 4^{17} Inlet improvements 4^{18}		333	20	N .	IV		F			that Were Not Ana		3	34,143			130,433	y 167,300	1,072	Ü					7		135			,,U32	.,052

1. The project group column was created to determine the total yield from different combinations of projects. The group was determined as follows: a- the project can be standalone; b- the project can be standalone but is also included in a multi project scenario; d- the project includes the "c" group.

2. The results of this table provide an estimate of the cost per acre-ft of recharge. These estimates are reconnaissance level (level 5) estimates and additional technical work needs to be done to assure feasibility.

3. The IEUA recycled water recharge rate was assumed to be \$195 an acre-ft per Table 2-9. 4. The MWD imported water recharge rate was assumed to be untreated Tier 1 Service at a price of \$621 an acre-ft per Table 2-9.

5. The production sustainability score is a tool to characterize a project's contribution to production sustainability in areas with sustainability in areas with

contributes significantly to production sustainability (a necessary and sufficient condition of sustainability). 6. The automation of the inlet gate and flume data to MC 1 results in a reduction of O&M.

7. With a 40% RWC limitation an additional 1,911 acre-ft/yr of recycled water can be recharged.

8. The Baseline for the Turner 2 Spillway Project and the Turner Expansion includes the recharge from Turner 1, 2, 3 and 4.

9. The results from the Wineville proof of concept project may render the project infeasible. Recycled water recharge was estimated to be 630 acre-ft/yr assuming an infiltration rate of 0.10 ft/day over 30 acres. 10. The RWC limitation at RP3 is 12,800 acre-ft/yr.

11. Recycled water recharge based upon an estimated 0.1 ft/day infiltration at 40-acres for 7-months of operations. Actual RWC is unknown, the recharge based upon an assumed RWC at 25% with the following flows: 840 AFY Storm Water, 1,800 AFY Underflow, and Diluent Water the same at Banana Basin. The project includes the price of land at \$14 million.

12. Recycled water recharge operations will not benefit from the increased operating level. Basin recharge footprint is constrained by surrounding geology and engineered berm. Basin is not RWC limited and will not benefit from increased SW capture or footprint.

13. Based on available information, it can be assumed that the basin infiltration can be increased 10 to 20% with annual cleaning, and 20 to 50 % with cleaning twice a year. Field data needs to be established to determine optimum cleaning frequency per basin.

14. The Turner Basin expansion project was not included because it is currently under construction. 15. The Upland Basin Project was removed by IEUA because the basin performs well and limited cleaning is needed.

16. The College Heights project does not affect stormwater recharge.

17. The projects did not pass the screening criteria and were not considered. 18. The recharged gained by the 2010 RMPU RP3 inlet improvement is comparable to the current recharge at RP3.

19. Reduces the amount of lost water due to basin inlet constraints and clogging.

20. Will increase the amount of time water can be recharged in SS-1 by solving the vector control issues. 21. Will allow the Jurupa Basin to accept an additional 15 cfs from the CB 18 in Hickory and Banana Basins were offline.

DRAFT Table 8-2b
Screening of Yield Enhancement Projects

Project ID	Project	Management Zone	New Yield	U	nit Cost	C	apital Cost ¹	Water Quality Challenges	Institutional Challenges
1	Montclair Basins	1	71	\$	4,997	\$	5,450,000		а
2	Montclair Basins	1	248	\$	430	\$	1,500,000		а
3	Montclair Basins	1	0	\$	-	\$	50,000		а
4	Montclair Basins	1	0	\$	-	\$	790,000		а
5	North West Upland Basin	1	93	\$	4,207	\$	5,990,000		а
6	Princeton Basin	2	20	\$	358	\$	100,000		а
7	San Sevaine Basins	2	642	\$	217	\$	1,775,000		a, c
8	San Sevaine Basins	2	345	\$	252	\$	1,140,000		a, c
9	San Sevaine Basins	2	0	\$	-	\$	300,000		а
10	San Sevaine Basins	2	0	\$	-	\$	-		а
11	Victoria Basin	2	48	\$	140	\$	75,000		a, c
12	Lower Day Basin (2010 RMPU)	2	789	\$	241	\$	2,480,000		а
13	Lower Day Basin	2	75	\$	554	\$	600,000		а
14	Turner Basin	2	66	\$	916	\$	890,000		а
15	Ely Basin	2	221	\$	3,464	\$	11,620,000		
16	Ontario Bioswale Project	2	8	\$	-	\$	650,000		
17	Lower San Sevaine Basin (2010 RMPU)	2	1,221	\$	924	\$	16,645,000		b, c
18	CSI Storm Water Basin	3	81	\$	755	\$	900,000		
19	Wineville Basin (2010 RMPU)	3	2,157	\$	132	\$	3,140,000		b, c
3	Jurupa Basin	3	421	\$	330	\$	1,900,000		
21	RP3 Basin Improvements (2010 RMPU)	3	406	\$	3,572	\$	22,040,000		
22	RP3 Basin Improvements (2013 RMPU)	3	137	\$	1,289	\$	2,645,000		
23	2013 RMPU Proposed Wineville PS to Jurupa, Expanded Jurupa PS to RP3 Basin with 2013 Proposed RP3	3	3,166	\$	337	\$	8,720,000		
24	Vulcan Pit	3	857	\$	1,236	\$	15,790,000		b, c
25	Sierra	3	64	\$	1,056	\$	1,000,000		
26	Sultana Avenue	3	7	\$	9,499	\$	1,020,000		
27	Declez Basin	3	241	\$	1,135	\$	4,070,000		
28	Banana Basin (annual cleaning)	3	11	\$	294	\$	-		
29	Banana Basin (semiannual cleanings)	3	31	\$	495	\$	-		
30	Declez Basin (annual cleaning)	3	16	\$	409	\$	=		
31	Declez Basin (semiannual cleanings)	3	47	\$	701	\$	-		
32	Ely Basin (annual cleaning)	2	44	\$	668	\$	=		
33	Ely Basin (semiannual cleanings)	2	128	\$	997	\$	-		
34	Hickory Basin (annual cleaning)	2	7	\$	518	\$	-		
35	Hickory Basin (semiannual cleanings)	2	20	\$	877	\$	-		

1) The capital cost shown assumes the projects including the recharge of recycled water is mutually agreed and split 50/50 per the Peace II Agreement Article VII **Key to Institutional Challenges**

- a An agreement will be required with the property owner to construct and operate stormwater recharge facilities. Other agreements with resource agencies may also be required. The time required to negotiate and approve these agreements could range from one to two years.
- b This basin in not currently included in the Watermaster/IEUA recharge permit. Therefore the existing permit will need to be amended to include recycled water at this basin. The time required to prepare the Title 22 engineering and regulatory process is about two years.
- c The capital cost shown herein has been reduced to half the construction cost with the other half allocated to recycled water recharge. IEUA has discretion as to whether to participate or not in this project.

DRAFT Table 8-2c Ranked Yield Enhancement Projects

Project ID Group ¹						3			
Project ID	Group ¹	Project	Yield	Ur	nit Cost ²	С	apital Cost ³		
Recommended MZ3	3 Project	s		_					
19	С	Wineville Basin (2010 RMPU)	2,157	\$	132	\$	3,140,000		
3	C	Jurupa Basin	421	\$	330	\$	1,900,000		
		2013 RMPU Proposed Wineville PS to							
23	d	Jurupa, Expanded Jurupa PS to RP3 Basin	3,166	\$	337	\$	8,720,000		
25	u	with 2013 Proposed RP3 Improvements	3,100	7	337	7	0,720,000		
		· ·							
18	а	CSI Storm Water Basin	81	\$	755	\$	900,000		
25	а	Sierra	64	\$	1,056	\$	1,000,000		
24	a	Vulcan Pit	857	\$	1,236	\$	15,790,000		
22	b,c	RP3 Basin Improvements (2013 RMPU)	137	\$	1,289	\$	2,645,000		
21	b	RP3 Basin Improvements (2010 RMPU)	406	\$	3,572	\$	22,040,000		
26	а	Sultana Avenue	7	\$	9,499	\$	1,020,000		
Total MZ3			?		?		?		
Recommended MZ	2 Project	1							
11	а	Victoria Basin	48	\$	140	\$	75,000		
7	b	San Sevaine Basins	642	\$	217	\$	1,775,000		
12	b	Lower Day Basin (2010 RMPU)	789	\$	241	\$	2,480,000		
8	b	San Sevaine Basins	345	\$	252	\$	1,140,000		
6	а	Princeton Basin	20	\$	358	\$	100,000		
13	b	Lower Day Basin	75	\$	554	\$	600,000		
14	а	Turner Basin	66	\$	916	\$	890,000		
17	а	Lower San Sevaine Basin (2010 RMPU)	1,221	\$	924	\$	16,645,000		
15	а	Ely Basin	221	\$	3,464	\$	11,620,000		
Total MZ2			,		?		?		
Recommended MZ1	1 Project	s							
2	а	Montclair Basins	248	\$	430	\$	1,500,000		
5	а	North West Upland Basin	93	\$	4,207	\$	5,990,000		
1	а	Montclair Basins	71	\$	4,997	\$	5,450,000		
Total MZ1			,		?		,		
Other Recommende	ed Proiec	ets. Not MZ Specific							
28	b	Banana Basin (annual cleaning)	11	\$	294	\$	_		
30	b	Declez Basin (annual cleaning)	16	\$	409	\$	_		
29	b	Banana Basin (semiannual cleanings)	31	\$	495	\$	_		
34	b	Hickory Basin (annual cleaning)	7	\$	518	\$	-		
32	b	Ely Basin (annual cleaning)	44	\$	668	\$	-		
31	b	Declez Basin (semiannual cleanings)	47	\$	701	\$	-		
35	b	Hickory Basin (semiannual cleanings)	20	\$	877	\$	-		
33	b	Ely Basin (semiannual cleanings)	128	\$	997	\$	-		
Total Other			2		2		2		
Recommended			?		?		?		
Total									
Recommended			?		?		?		
Projects			•		•		·		
Other Projects									
9	а	San Sevaine Basins	0	\$	_	\$	300,000		
10	a	San Sevaine Basins	0	\$	_	\$	-		
16	a	Ontario Bioswale Project	8	\$	_	\$	650,000		
3	a	Montclair Basins	0	\$	_	\$	50,000		
4	a	Montclair Basins	0	\$	-	\$	790,000		
'				<u> </u>		•	-,		

 $\mbox{\bf Note}$ - color shading within each MZ indicates mutually exclusive projects.

^{1.} The project group column was created to determine the total yield from different combinations of projects. The group was determined as follows: a- the project can be standalone; b- the project is mutually exclusive; c- the project can be standalone but is also included in a multi project scenario; d- the project includes the "c" group.

^{2.} The next least cost supply is MWD untreated Tier 1 rate; for 2013 and 2014 is \$593 an acre-ft. (http://www.mwdh2o.com/mwdh2o/pages/finance/finance_03.html)

^{3.} The capital cost shown assumes the projects including the recharge of recycled water is mutually agreed and split 50/50 per the Peace II Agreement Article VIII.