

**Appendix C: Alternative TMDL Tables for the Possible Continental
WWTP Conversion to a Lagoon Treatment System**

Table C-1. Alternative Loading Statistics for South Powell Creek (P06P06).

P06P06 TMDL		High Flows	Moist Conditions	Mid-Range Flows	Dry Conditions	Low Flows
Pollutant	TMDL Component	0-10	10-40	40-60	60-90	90-100
TP (kg/day)	Median Estimated Instream Flow (cfs) ¹	118.39	19.93	6.67	2.58	0.68
	Current Load	No Data	42.77	3.92	1.02	No Data
	TMDL= LA+WLA+MOS	29.03	4.94	1.70	0.70	0.23
	LA	24.41	2.73	0.00 ²	0.00 ²	0.21
	WLA: Continental WWTP	1.72	1.72	1.70	0.70	0.00
	WLA: MS4	n/a	n/a	n/a	n/a	n/a
	MOS (10%)	2.90	0.49	0.00 ²	0.00 ²	0.02
	TMDL Reduction (%)	No Data	90%	61%	39%	No Data
NN (kg/day)	Current Load	No Data	109.38	24.93	0.24	No Data
	TMDL= LA+WLA+MOS	290	49	17	7	2.33
	LA	257.73	40.73	11.73	2.73	2.10
	WLA: Continental WWTP	3.27	3.27	3.27	3.27	0.00
	WLA: MS4	n/a	n/a	n/a	n/a	n/a
	MOS (10%)	29	5	2	1	0.23
	TMDL Reduction (%)	No Data	59%	39%	0%	No Data
	BOD (kg/day)	Current Load	No Data	82	45	42
TMDL= LA+WLA+MOS		1,016	173	59	24	8
LA		906	148	45	14	7
WLA: Continental WWTP		8	8	8	8	0
WLA: MS4		n/a	n/a	n/a	n/a	n/a
MOS (10%)		102	17	6	2	1
TMDL Reduction (%)		No Data	0%	0%	48%	No Data
TSS (kg/day)		Current Load	No Data	6,168	962	355
	TMDL= LA+WLA+MOS	19,276	3,280	1,127	463	155
	LA	17,340	2,944	1,006	409	140
	WLA: Continental WWTP	8	8	8	8	0
	WLA: MS4	n/a	n/a	n/a	n/a	n/a
	MOS (10%)	1,928	328	113	46	15
	TMDL Reduction (%)	No Data	52%	0%	0%	No Data

¹ Estimated flows listed in this row exclude the Continental WWTP design flow.² The LA and MOS values were set to zero and the WLA for the Continental WWTP was adjusted to match the TMDL where negative LAs were displayed.

Table C-2. Alternative Loading Statistics for South Powell Creek (P06G04).

P06G04 TMDL		High Flows	Moist Conditions	Mid-Range Flows	Dry Conditions	Low Flows
Pollutant	TMDL Component	0-10	10-40	40-60	60-90	90-100
TP (kg/day)	Current Load	No Data	42.24	3.71	1.57	No Data
	TMDL= LA+WLA+MOS	38.28	6.50	2.22	0.90	0.29
	LA	32.73	4.13	0.28	0.00 ¹	0.26
	WLA: Continental WWTP	1.72	1.72	1.72	0.90	0.00
	WLA: MS4	n/a	n/a	n/a	n/a	n/a
	MOS (10%)	3.83	0.65	0.22	0.00 ¹	0.03
	TMDL Reduction (%)	No Data	86%	46%	49%	No Data
NN (kg/day)	Current Load	No Data	187.35	26.58	0.30	No Data
	TMDL= LA+WLA+MOS	383	65	22	9	2.86
	LA	341.73	54.73	16.73	4.73	2.57
	WLA: Continental WWTP	3.27	3.27	3.27	3.27	0.00
	WLA: MS4	n/a	n/a	n/a	n/a	n/a
	MOS (10%)	38	7	2	1	0.29
	TMDL Reduction (%)	No Data	69%	25%	0%	No Data
BOD (kg/day)	Current Load	No Data	108	53	53	No Data
	TMDL= LA+WLA+MOS	1,340	227	78	31	10
	LA	1,198	196	62	20	9
	WLA: Continental WWTP	8	8	8	8	0
	WLA: MS4	n/a	n/a	n/a	n/a	n/a
	MOS (10%)	134	23	8	3	1
	TMDL Reduction (%)	No Data	0%	0%	47%	No Data
TSS (kg/day)	Current Load	No Data	11,263	1,267	765	No Data
	TMDL= LA+WLA+MOS	25,417	4,314	1,473	597	190
	LA	22,867	3,875	1,318	529	169
	WLA: Continental WWTP	8	8	8	8	0
	WLA: MS4	n/a	n/a	n/a	n/a	n/a
	MOS (10%)	2,542	431	147	60	21
	TMDL Reduction (%)	No Data	66%	0%	30%	No Data

¹ The LA and MOS values were set to zero and the WLA for the Continental WWTP was adjusted to match the TMDL where negative LAs were displayed.

Table C-3. Loading Statistics for Powell Creek (P06S01).

P06S01 TMDL		High Flows	Moist Conditions	Mid-Range Flows	Dry Conditions	Low Flows
Pollutant	TMDL Component	0-10	10-40	40-60	60-90	90-100
TP (kg/day)	Current Load	No Data	97.86	10.62	2.00	No Data
	TMDL= LA+WLA+MOS	96.34	16.27	5.49	2.17	0.62
	LA	84.99	12.92	3.22	0.23	0.56
	WLA: Continental WWTP	1.72	1.72	1.72	1.72	0.00
	WLA: Wezbra Dairy	0	0	0	0	0
	WLA: Maple Grove Dairy	0	0	0	0	0
	WLA: MS4	n/a	n/a	n/a	n/a	n/a
	MOS (10%)	9.63	1.63	0.55	0.22	0.06
	TMDL Reduction (%)	No Data	85%	53%	3%	No Data
NN (kg/day)	Current Load	No Data	644	51	1	No Data
	TMDL= LA+WLA+MOS	963	163	55	22	6.21
	LA	863.73	143.73	46.73	16.73	5.59
	WLA: Continental WWTP	3.27	3.27	3.27	3.27	0.00
	WLA: Wezbra Dairy	0	0	0	0	0
	WLA: Maple Grove Dairy	0	0	0	0	0
	WLA: MS4	n/a	n/a	n/a	n/a	n/a
	MOS (10%)	96	16	5	2	0.62
	TMDL Reduction (%)	No Data	77%	4%	0%	No Data
BOD (kg/day)	Current Load	No Data	272	148	78	No Data
	TMDL= LA+WLA+MOS	3,372	569	192	76	22
	LA	3,027	504	165	60	20
	WLA: Continental WWTP	8	8	8	8	0
	WLA: Wezbra Dairy	0	0	0	0	0
	WLA: Maple Grove Dairy	0	0	0	0	0
	WLA: MS4	n/a	n/a	n/a	n/a	n/a
	MOS (10%)	337	57	19	8	2
	TMDL Reduction (%)	No Data	0%	0%	12%	No Data
TSS (kg/day)	Current Load	No Data	30,174	5,046	785	No Data
	TMDL= LA+WLA+MOS	63,968	10,803	3,645	1,439	413
	LA	57,563	9,715	3,273	1,287	372
	WLA: Continental WWTP	8	8	8	8	0
	WLA: Wezbra Dairy	0	0	0	0	0
	WLA: Maple Grove Dairy	0	0	0	0	0
	WLA: MS4	n/a	n/a	n/a	n/a	n/a
	MOS (10%)	6,397	1,080	364	144	41
	TMDL Reduction (%)	No Data	68%	35%	0%	No Data

Table C-4. Loading Statistics for Powell Creek (P06G07).

P06G07 TMDL		High Flows	Moist Conditions	Mid-Range Flows	Dry Conditions	Low Flows
Pollutant	TMDL Component	0-10	10-40	40-60	60-90	90-100
TP (kg/day)	Current Load	No Data	101.55	10.49	2.39	No Data
	TMDL= LA+WLA+MOS	101.38	17.12	5.77	2.28	0.65
	LA	89.06	13.61	3.43	0.33	0.58
	WLA: Continental WWTP	1.72	1.72	1.72	1.72	0.00
	WLA: Wezbra Dairy	0	0	0	0	0
	WLA: Maple Grove Dairy	0	0	0	0	0
	WLA: Defiance MS4	0.46	0.08	0.03	0.00	0.00
	MOS (10%)	10.14	1.71	0.58	0.23	0.07
	TMDL Reduction (%)	No Data	85%	50%	14%	No Data
NN (kg/day)	Current Load	No Data	698	48	3	No Data
	TMDL= LA+WLA+MOS	1,014	171	58	23	6.51
	LA	905.18	149.96	48.47	17.73	5.86
	WLA: Continental WWTP	3.27	3.27	3.27	3.27	0.00
	WLA: Wezbra Dairy	0	0	0	0	0
	WLA: Maple Grove Dairy	0	0	0	0	0
	WLA: Defiance MS4	4.55	0.77	0.26	0.00	0.00
	MOS (10%)	101	17	6	2	0.65
	TMDL Reduction (%)	No Data	78%	0%	0%	No Data
BOD (kg/day)	Current Load	No Data	286	152	39	No Data
	TMDL= LA+WLA+MOS	3,548	599	202	80	23
	LA	3,169	528	173	64	21
	WLA: Continental WWTP	8	8	8	8	0
	WLA: Wezbra Dairy	0	0	0	0	0
	WLA: Maple Grove Dairy	0	0	0	0	0
	WLA: Defiance MS4	16	3	1	0	0
	MOS (10%)	355	60	20	8	2
	TMDL Reduction (%)	No Data	0%	0%	0%	No Data
TSS (kg/day)	Current Load	No Data	32,896	5,825	769	No Data
	TMDL= LA+WLA+MOS	67,317	11,366	3,834	1,512	432
	LA	60,275	10,170	3,426	1,353	389
	WLA: Continental WWTP	8	8	8	8	0
	WLA: Wezbra Dairy	0	0	0	0	0
	WLA: Maple Grove Dairy	0	0	0	0	0
	WLA: Defiance MS4	302	51	17	0	0
	MOS (10%)	6,732	1,137	383	151	43
	TMDL Reduction (%)	No Data	69%	41%	0%	No Data