

Wind Energy Associates - Master Plan

3/27/15

Water & Wastewater Analysis															
Building #	Type	Number of Units	Office (SF)	Manu- facturing (SF)	Residential (SF)	total building (SF)	# Bedrooms	# Employees	Process water Gallons per Day	Water use per unit (employee, bedroom)	Water gallons per day (10% reduction)	Wastewater use per unit (employee, bdrm/unit)	Wastewater gallons per day (20% reduction)	Notes	Metric
1. Light Industrial / Office															
1A	Office/manufacturing		10,000	17,000		27,000		45	TBD	15	608	15	540	Assumes 400 s.f./office emp.; 850 s.f./manuf.emp.	15 gpd per employee, 10% and 20% reduction for low flow fixtures
1B	Office/manufacturing		10,000	17,000		27,000		45	TBD	15	608	15	540	Assumes 400 s.f./office emp.; 850 s.f./manuf.emp.	15 gpd per employee, 10% and 20% reduction for low flow fixtures
1C	Office/manufacturing		20,800	10,400		31,200		64	TBD	15	867	15	771	Assumes 400 s.f./office emp.; 850 s.f./manuf.emp.	15 gpd per employee, 10% and 20% reduction for low flow fixtures
2. Campus Center															
2A	Mixed Use/ Office		48,750			48,750		122	N/A	15	1,645	15	1,463	Assumes 400 s.f./employee	15 gpd per employee, 10% and 20% reduction for low flow fixtures
2B	Mixed Use / Office		31,200			31,200		78	N/A	15	1,053	15	936	Assumes 400 s.f./employee	15 gpd per employee, 10% and 20% reduction for low flow fixtures
2C	Senior Housing	36			36,075	36,075	36		N/A	150	4,860	140	4,032	Assumes 1 bedroom apartments	150gpd (-10%) per bedroom for water, 140 gpd (-20%) for wastewater
2D	Office		13,000			13,000		33	N/A	15	439	15	390	Assumes 400 s.f./employee	15 gpd per employee, 10% and 20% reduction for low flow fixtures
			133,750	44,400	36,075	214,225									
3. Hillside Residential - Existing Approved Subdivision															
	Custom Single Family	3			6,600	6,600			N/A					N/A - Allocations Received in 2008	
4. Meadow Residential															
	Large Single Family	5		11,000		11,000	15		N/A	150	2,025	210	1,050	Assumes 3 bedrooms per home	150gpd (-10%) per bedroom for water, 210gpd (no reduction) per residential unit
	Small Single Family	11		17,787		17,787	22		N/A	150	2,970	210	2,310	Assumes 2 bedrooms per home	150gpd (-10%) per bedroom for water, 210gpd (no reduction) per residential unit
	Duplex	12		13,440		13,440	24		N/A	150	3,240	210	2,520	Assumes 2 bedrooms per home	150gpd (-10%) per bedroom for water, 210gpd (no reduction) per residential unit
	Meadow Townhome	20		22,400		22,400	40		N/A	150	5,400	210	4,200	Assumes 2 bedrooms per home	150gpd (-10%) per bedroom for water, 210gpd (no reduction) per residential unit
	South Hill Townhome	14		15,680		15,680	28		N/A	150	3,780	210	2,940	Assumes 2 bedrooms per home	150gpd (-10%) per bedroom for water, 210gpd (no reduction) per residential unit
		101		122,982		86,907									
						301,132	165	387			27,494		21,691		