Appendix B

Water Usage Estimation Method Documentation

Sole Sour	•	er Petition	า - Wat	ter Us	se Calcula	tio	n			
Spreadsh	eet 	I					<u> </u>			
for Troutdala	 nd Unconc	 	um Aquif	or Syste	<u> </u>					
for Troutdale a		lidated Alluvi	um Aquii 	ei Sysii						
in Clark Count	⊥ ty, Washingt	on								
Clark County, Wa		 er Usage in millio	on gallons	per day,	average (domes	tic				
	Population	Groundwater	Surface Water	Total	Per Capita (gpd/person		USGS w	ater usage	preakdown	
Public System	253250	27.83	0.28	28.11	111.00		Domestic	Industrial	Losses/Other	Self Supplied
Self Supplied	91990	7.73		7.73	84.03		28.11	1.76	9.7	7.73
Total	345240	35.56	0.28	35.84	103.81					
Note: Surface wa capita rate.	ater calculated	as 20% of Cama	as total usa	l age. Can	l nas usage calcul	ated	as population	x per		
Portion of water u	usage in Clark	County outside	SSA							
Totalon or mater							Systems exc	luded: Woo	dland Mobile HF)
	Population	Groundwater	Surface Water	Total	Per Capita (gpd/person		, , , , , , , , , , , , , , , , , , , ,		rch Corrections,	
Public System	16,736	1.77	0.085	1.86	111.00			Brookside	, Magna Vista,	•
Self Supplied	23,264	1.95	0.000	1.95	84.03			Washouga	al and part of Ca	mas
Total	40000	3.73	0.085	3.81	95.31		Population d	etermined u	sing 2000 Cens	us
								blocks for	area. Excluded	system
								population	s listed below.	

	Population	Groundwater (MGal/day)	Surface Water (MGal/day)	Total	Per Capita	(gpd/person)			
Public System	236514	26.06	0.19	26.25	111.00				
Self Supplied	68726	5.78	0.00	5.78	84.03				
Total	305240	31.83	0.19	32.03	104.93				
Data sources:	USGS:		Lane, R.C., 2004, Estimated domestic, irrigation, and industrial water use in Washington, 2000: U.S. Geological Survey						
			Scientific Investigations Report 2004–5015, 16 p.						
	Washington Dept of Health	SENTRY system	•	•					
	US Census Bureau								
	t error is introduced by using the the system populations ha					excluded area			

Exclu	ded water systems							
DOH Number	Water System Name	Water System Type	Active Sources	Population Served	2000 Census	Owner	Source Loc	
50240E	MAGNA VISTA WATER CORP	Community	1	56		MVWC	1/4E-9	
	Amboy	Community	1	152		PUD		
	Yacolt	Community	5	1230				
	Brookside	Community	1	100				
	Larch Correctional Facility	Community	3	400				
20469R	WOODLAND MOBILE HOME PARK	Community	4	209		TH Properties	5/1E-19	
934000	WASHOUGAL, CITY OF	Community	7	10,770	8595	Washougal	1/4E- 8,16	1/3E-12
108002	CAMAS MUNICIPAL WATER SEWER SYSTEM	Community	11	3,819	12534	Camas	SW 2/4E-	4,2
				16,736			GW 1/3E-	12,4

nas Source/U	Jsage Estima	ation (Estin	nated for	2000)						
Population Serve	d (2000 Census)	-								
In SSA	Out SSA	Total								
8715	3819	12534								
Camas water usa	age in SSA									
Camas water usa	Gndwtr	0.77								
	Surf Wtr	0.19								
	Total	0.19								
Total Camas water	er usage (pop x pe	er capita rate)								
	1.39	Mg/d								
				Number	of need					
Water used from	SSA (system capa	acity % x total us	sage)	Number of served:	л реорі	е				
Water acca from		l lotty 70 X total de		From in						
	0.10	Mg/d		SSA	858					
				From out SSA	7857					
Source capacity (gpm) by location (one of 9 source	s active in 20	 00 was in S	SSA) (D	OH SENT	RY			
In SSA	Out SSA			Total	Pui	mping cap	•			
Gndwtr	Gndwtr	Surf Wtr	Total Out		Surf Wtr	Source #	Gndwtr	Act. Date	Inact. Date	So
650	8500	1000	9500	10150	500	1	950	1970	2003	
					500	2	950	1970	2003	
	% of capac	city in SSA	6.84%				1100	1970		
		•					600	1970		
		% of usage Surf Wtr	20.0%	(reported by City of Camas) 1400		1970				
		2 2 3 3 3 3					40		1994	
							1300	2003		
							1300	2003		1

Additional Data							
Total population outside SSA	40000	(from 2000 Census Clark Co block map overlain on SSA)					
Total Water from TUAAS in the SSA	30.96						
Population served by TUAAS water	297383	97.43%					