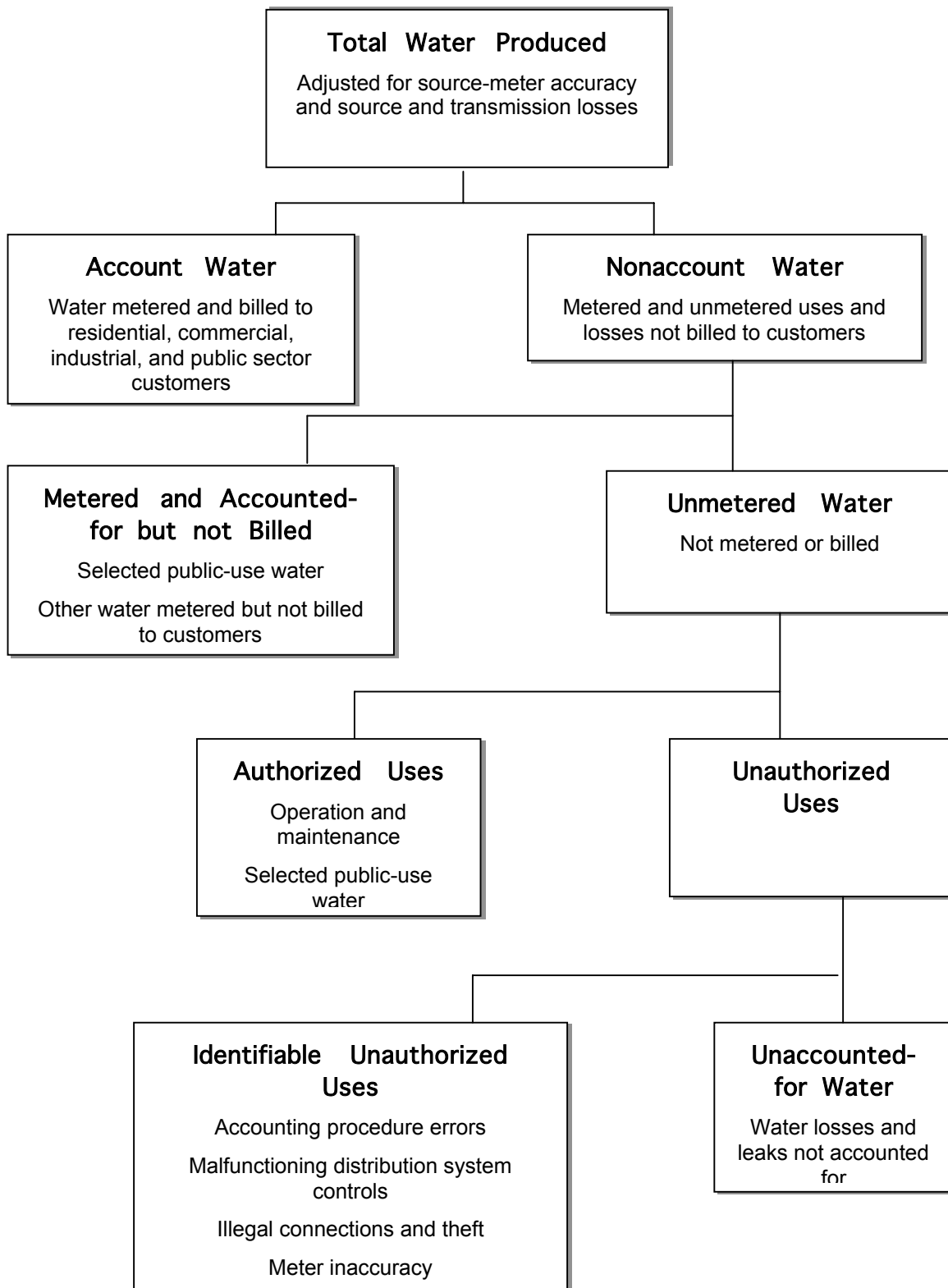


APPENDIX F: BASIC WATER ACCOUNTING SYSTEM



WORKSHEET FOR WATER ACCOUNTING AND LOSS CONTROL

Line	Item	Volume (gallons)		% of Amount in Line 1
1	Total Source Withdrawals and Purchases			100%
2	<i>Adjustments to source water supply [a]</i>			
2A	Adjustment for source meter error (+ or -)			
2B	Adjustment for change in reservoir or tank storage (+ or -)			
2C	Adjustment for transmission line losses (-) [a]			
2D	Adjustments for other source contributions or losses (+ or -) [a]			
3	Total adjustments to source water (add lines 2A through 2D))			
4	Adjusted Source Water (subtract line 3 from line 1)			%
5	<i>Metered Water Sales</i>			
5A	Metered residential sales			
5B	Metered commercial sales			
5C	Metered industrial sales			
5D	Metered public sales			
5E	Other metered sales			
6	Total metered sales (add lines 5A through 5D)			
7	Adjustment for meter reading lag time (+ or -)			
8	Adjustment for meter errors (+ or -) [a]			
9	Adjusted total meter sales (add lines 6 through 8)			
10	Nonaccount Water (subtract line 9 from line 4)			%
11	<i>Metered and accounted-for but not billed</i>			
11A	Public-use water metered but not billed			
11B	Other water metered but not billed			
12	<i>Authorized unmetered water: operation and maintenance</i>			
12A	Main flushing			
12B	Process water at treatment plant			
12C	Water quality and other testing			
13	<i>Authorized unmetered water: public use</i>			
13A	Storm drain flushing			
13B	Sewer cleaning			
13C	Street cleaning			
13D	Landscaping in large public areas			
13E	Firefighting, training, and related maintenance			
14	<i>Other authorized unmetered use</i>			
14A	Swimming pools			
14B	Construction sites			
14C	Other unmetered uses			
15	Total authorized unmetered water (add lines 11A through 14C)			
16	Total Unauthorized Losses (subtract line 15 from line 10)			%
17	<i>Identifiable water losses and leaks</i>			
17A	Accounting procedure errors [a]			
17B	Malfunctioning distribution system controls			
17C	Illegal connections and theft			
17D	Meter inaccuracy			
17E	Unavoidable water leaks			
17F	Avoidable water leaks			
18	Total identifiable water losses and leaks (add lines 17A through 17F)			
19	Unaccounted-For Water (subtract line 18 from line 16)			%

[a] Methodology subject to industry and regulatory standards.