Topsfield Water Department					
Fluoridation Cost Estimate					
July 31, 2014					
Treatment Supplies	1,974				
Treatment Equipment	1,200				
Testing Supplies	4,307				
Testing Equipment	1,429				
Labor	9,920				
Total	18,830				
	Item		**Annual**		
Treatment Supplies	**Cost**	**Units**	**Use**	**Quantity**	**Cost**
Granular Sodium Fluoride	0.95	pound	100%	2,000	1,900
Fluoride Waste Disposal	185	each rebuild	20%	2	74
Treatment Equipment					
Fluoride Saturator	1,000	each	10%	2	200
Chemical Feed Pump	1,750	each	20%	2	700
Anti-Siphon Valves	150	per kit	100%	2	300
Testing Supplies					
Analyzer	5,000	each	7%	2	667
Analyzer Electrodes	1,000	each	100%	2	2,000
Total Ionic Strength Adjustment Buffer	300	20 Liter Box	100%	3	900
1.0 ppm Fluoride Standard	80	4 Liter Bottle	100%	4	320
2.0 ppm Fluoride Standard	80	4 Liter Bottle	100%	4	320
Distilled water	100	20 Liter Box	100%	1	100
Testing Equipment					
Ion Specific Benchtop Meter	1,850	each	20%	1	370
Fluoride Electrode	700	each	100%	1	700
Reference Electrode	220	each	100%	1	220
Fill Solution	90	each	100%	1	90
Temperature Probe	245	each	20%	1	49
Labor Costs					
Saturator Maintenance	25	per hour		96	2,400
Pump Maintenance	25	per hour		24	600
Fluoride Testing	25	per hour		260	6,500
DPH Reporting	35	per hour		12	420