2009 Water & Wastewater Chemical Usage - 11/23/09					
	Chemical	Usage to Date	Usage	Cost to Date	General Purpose of the Chemical
Kaw Water Treatment Plant	Sodium Hypochlorite	46,925 gals	Even	\$54.936	Disinfection
	Lime	1,165 tons	Down		Alkalinity addition and pH control
	Sodium Bisulfate	560 gals	Down		Binds residual Sodium Hypochlorite before discharge to receiving stream
	Sodium Silicofluoride	11,932 lbs	Down		Dental Health
	Agua Ammonia	78,285 lbs	Down		Binds with Sodium Hypochlorite as a longer lasting disinfection agent
	Polymer	26,888 lbs	Down		Binds Floc
	Powder Activated Carbon	177,946 lbs	Up		Taste & odor control, reduce TTHM & HAA's
	Carbon Dioxide	578,517 lbs	Down		pH Control
	Aluminum Sulfate	191,509 lbs	Down		Flocculent
	Phosphate	11,564 lbs	Down	\$12,264	Rust Preventative
	Soda Ash	97,422 lbs	Up	\$16,187	Alkalinity Control - Lead and Copper Rule
	Chlorine Gas	22,790 lbs	Not in use	\$5,919	Disinfection
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Treatment Plant	Sodium Hypochlorite	77,431 gals	Down	\$90,650	Disinfection
	Lime	220 tons	Down	\$26,602	Alkalinity addition and pH control
atm	Sodium Bisulfate	1,699 gals	Down		Binds residual Sodium Hypochlorite before discharge to receiving stream
Tre	Sodium Silicofluoride	10,881 lbs	Down	· ·	Dental Health
Water	Aqua Ammonia	81,811 lbs	Down		Binds with Sodium Hypochlorite as a longer lasting disinfection agent
Wa	Polymer	120,967 lbs	Down		Binds Floc
Clinton	Calgon Carbon + PAC	180,226 lbs	Up		Taste & odor control - and to reduce TTHM, HAA's
	Sodium Hexametaphosphate		Down	, ,	Rust Preventative
	Ferric Chloride	5,288 gals	Up New chem	\$7,576	Flocculent
Wastewater Treatment Plant	Sodium Hypochlorite	131,148 gals	Up	\$136.015	Disinfectant
	Lime		Up		Alkalinity addition and pH control
	Sodium Bisulfate	19,833 gals	Up		Binds residual Sodium Hypochlorite before discharge to receiving stream
	Clair floc (CE-617)		Even		Bio-Solids conditioning process polymer
	Ferrous Chloride	24,000 gals	Even	· · ·	Oder control sewer lift stations and sewer lines
	Potassium Permanganate	7,934 lbs	Even	\$21,661	Oder control Bio-Solids process
	Ferric Chloride	32,427 gals	Up	\$45,661	Actiflo flocculent
	Magnafloc 110L	14,035 lbs	Up	\$33,264	Actiflo Treatment Process Polymer
	Tramfloc 1110	6,600 lbs	Even	\$13,530	Actiflo defoamer
	Silica Sand	16,800 lbs	Up	\$1,848	Actiflo ballast