

Chemicals for pH and Alkalinity Adjustment

onBalance - Que Hales, Doug Latta and Kim Skinner

<u>Chemical</u>	<u>pH</u>	<u>TA</u>
Soda ash	strong shift (→ 11.4)	1 lb/100%
Sesqui	medium shift (→ 10.2)	1.43 lbs/70%
Bicarb	mild shift (→ 8.3)	1.6 lbs/63%
Muriatic acid	strong drop (→ 1.1)	lowers
Powdered acid	strong drop (→ 1.4)	lowers
CO ₂	shifts pH (→ 5ish)	no effect on TA
Aeration	shifts pH (→ 8.3)	no effect on TA

Possible Water Conditions and Treatments

	<u>pH</u>	<u>TA</u>	<u>Remedies</u>
1.	OK	Low →	Bicarb
2.	OK	High →	frequent small amounts of acid
3.	Low	OK →	aerate, let drift up, hydroxide
4.	High*	OK →	aerate, let drift down, lite acid
5.	Low	Low →	soda ash, sesqui, (bicarb)
6.	Low	High →	aerate, when pH OK, adjust TA
7.	High	High →	adjust pH (acid demand), repeat until TA is OK
8.	High	Low →	bicarb

* meaning over 8.3

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