Public Swimming Pool Inspection Report						Health District: EAST LIVERPOOL CITY HEALTH DISTRICT					
Name of facility			,	Type visit	Type pool	Setting					l feature (SF)
J. BURCHFIELD CARTWRIGHT BABY POO Address 2205 THOMPSON PARK BOULEVARD City EAST LIVERPOOL OHIO 43920				Standard Re-inspection Complaint Epi Investigation Consultation	III Pool □ SPA □ SUP	■ Wading pool □ School □ Indoor □ Apartment/C □ Other	☑ Govt ☑ Outdoor	□ Spray g □ MHP □ Camp □ Hotel/n	☐ Play ☐ Rec		er slide ntain
Insp date (mm/dd/yy) Insp Time				Travel Time	ID no.		License no.				
7/19/2019 2 HRS 4 Surface area (sf) Regulared		Required		15MIN TEMP UNKNOWN	·····	VP RS #1012		POOL #2 Required flow min: TEMP UNKNOWN			
	SQ FT	rate (min)		TO BE DERTMD	Volume (galk 5000 G		i	(gpm) [Volu			E DERTMD
	☐ Check if	in violatio	n of the O	hio Administrative Code	3701-31-04 (A-E); NA= Not A	pplicable				
Flow measure Max allow, fit reading (gpm) [filter I				Max allow. flow: SF pump capacity (gpm)			Max allow. flow: Jet pump capacity (gpm)		•		
ritical violations (3701-31-04)	B)(1)(a-l)	,			· p			,			
			ulation/D ting prope	isinfection system rly	(g) Water clarity: (can see pool bottom)			(j) Pool treated after RWI			
(b) SVRS devices functioning		(e) Automatic chemi functioning properly			(h) Natura	(h) Natural or artificial light sufficient		(k) Proper use/storage of ch			hemicals
(f) Lil		[](f) Life	guards on	duty	(i) Fecal ac	cident treated pro	operly	(I) No Electrical haza		zards pr	esent
Vater Quality 3701-31-04 C, D											
(Circle disinfectant used)				(D)(6) Total Chlorine- Cl ₂ (ppm)	TBD	(C)(2) pH	[7.2-7.8]	J		7.7pH
Di-Chlor Tri-Chlor		Salt	X	(D)(6) Free Chlorine-Cl ₂ (p	pm) [≥1;2]	TBD	(C)(3) Alk	(C)(3) Alkalinity (ppm) [min 60]			80ppm
**Monopersulfate (if present with menere with piers test			ılts)	(D)(6) Combined-Cl ₂ /(pp	m)[≤1]	TBD	(C)(6) Pool water		r temp [≤ 90° F }		86°F
Secondary disinfection (crise if used)				(D)(6)Total Bromine-Br ₂ (p	opm) [≥ 2; 4]	à.	[(C)(7) Spa water temp [≤ 104°F]				
UV light (MJoules/cm²) Ozone (ppm)				(D)(6) ORP/HRR (millivolts		(C)(8) Spa water replaced every 30 days					
Ionization Conner Eiler (nom)			X	(D)(5) Cyanuric acid (ppm	TBD						
Responsibilities of the Operato	r 3701-31-04										
(A) License is displayed or on file				(B)(7) No domestic animals unless otherwise permitted			(D)(9) Chemicals are manually added while bathers are not present				
(A) All construction or alterations of a pool done with approved plans				D)(1) No gas chlorine for disinfection			(E)(1) Exclusion of people with obvious infectious wound or experiencing diarrhea/vomiting				
(B) All facilities are maintained clean, safe and sanitary condition and in good repair				(D)(2) Pool is continuously disinfected by a feeding device connected to circulation system			(E)(2) Safety equipment is visible and accessible				
(B)(2) Authorized representative available within 30 minutes				(D)(3) Mixing tank for spray ground has disinfection			(E)(3) Appropriate signs are posted				
(B)(3) Staff are knowledgeable of equipment and pool operation				(D)(4) Secondary disinfection device is not advers affecting water quality			[[E)(4) Lifeguards are provided and on duty as required				
(B)(4 & 5) Operational records maintained and on file]	(D)(7) Automatic chemical controller is functioning properly							
(B)(6) All equipment maintained in clean, safe and sanitary condition and in good repair			nitary	(D)(8) Test kit is maintained and complete							
				LATION OF OHIO ADMIN		· · · · · · · · · · · · · · · · · · ·				····	
Cite the specific rule number, ex In the base pump											
block structure cer	nented d	irectly t	o the	floor a encasing	the two	<u>drain line w</u>	ithout the	e mand	latory a	ir gar	o. These
two plastic PVC lin	es must	be air-ç	gappe	d by cutting the	PVC pipe	s the actua	al individu	ıal pipe	from th	ne top	of the
concrete block stru	icture su	rroundi	ngs th	e floor drain, I w	ould reco	mmend tha	at the pip	es be d	cut at a	45º a	ingle.
B6q-Depth marke	rs per ru	ule 5.1(H): O	oserved no dept	h marking	gs at the Ba	aby Pool	deck s	urface,	Insta	ll at least
two painted depth	marking	sign on	each	long side of the	baby Po	ol concrete	pool dec	k Make	sure tl	ne he	eight of
your deck signage											
REMARKS											
Re-inspection required? Yes No;		You have 1 week to correct both of these violations. 12 inches Deep Blk letters/White Paint background White letters/Blk Paint background									
			40-424-1077		Operator or Representative James Swoger			Phone 330-383-9015			

3701-31-04(D) DISINFECTION: testing frequency per rule 04(B)(4)(a) Abbreviated rule violations 3701-31-04 (this is not a comprehensive list) 3701-31-04(A) PLAN APPROVAL & LICENSURE. D1-Gas chiorine is prohibited for pool disinfectio Plan approval: regid for new construction/alterations [05, 05.1] D2-Continuous disinfection thru a chemical feed device connected to the circulation system: imparts a Substantial alterations: change in basic design affecting safety, circulation system, measurable residual; no continuous hand feeding D3-Sprayground mixing-holding tank disinfection to prevent bacterial growth deck; adds special feature; change perimeter barrier; replace circulation system; new/ relocated dive stand; replace outlet(s) and line; replace > 50% of overflow system, return D4-Secondary disinfection systems do not affect chlorine-bromine free residual D5-Cyanuric acid < 70 ppm; tested per rule 04(8)(4)(a)(vii) inlets or outlets & lines [05(C)] (ERNR) Equip Replacement Notification Report: req'd to change pumps; disinfection D6-Disinfection residuals for various pools per table-rule 04(D)(6) feeders or type or disinfectant; filter(s) or type of filtration [05(D)(4)] D7-Approved automatic chemical controllers (ACC) provided for every spa AT-License to operate: license reg'd to operate/maintain a public swimming pool D7a-ACC monitors pH & free disinfection residual by ORP D7b-ACC displays ph & ORP values A1c-License renewal: existing pools shall apply in April for a license A2-Authorization to inspect: the licensee shall not deny access to inspect a pool D7C-Visual or audible alarm activated by unacceptable levels A3-Compliance to the rules: No person shall violate the pool laws or rules(ORC/OAC) D7d-Flow/pressure switches to detect no/low circulation flow & stop chemical feeders or via pump interrupter; tested per mfr specs. 1W. results recoded on records sheet D8-**Proper DPD test kit** in repair, reagents fresh 3701-31-04(B) OPERATIONS. Pool/components/surrounding area maintained safe, clean, sanitary condition, good repair D9-Chemicals shall not be added w/ bathers present; chemicals added automatically 81-Critical items. Pool shall not operate when an imminent health hazard is present: D10-Bacteriological standards per rule 3745-81-27 81a-Outlet covers not installed/secured/in compliance 81b-SVRS non-functional 3701-31-04(E) HEALTH AND SAFETY. Pool maintained in healthy/safe environment. B1c-Disinfection residual less than the regid minimum E1-Infectious/Communicable disease. Patrons w/ obvious infectious wounds/ vomiting/diarrhea, B1d-Circulation/disinfection system non-functional passing feces, urine or blood using pool. B1e-Auto Chemical Controller non-functional E2-Safety equipment visible, accessible provided E2a-Pools w/o req'd lifeguard w/ 12ft reach pole-Sheppard's crook; ring buoy, throw bag or same B1f-Lifeguard not on duty, as req'd 81g-Water clarity insufficient 81h-Natural or artificial light insufficient 81ij-Facal accident occurs/documented-pool closed until treated per Appendix A w.' safety line; spine board; provided all per rule 04(E)(2) E2b-Pools w/ req'd lifeguard w/12ft reach pole-Sheppard's crook; ring buoy, throw bag or same w/ safety line; spine board w/ straps & head immobilizers B1k-Improper chemical use/storage E2c-Safety lines provided per rule 5.1(N); reinstalled after temporary activities B1H-Electrical hazard suspect until in compliance B2,3-Authorized/trained representative: staff knowledgeable, trained, available E2d-Proper first aid kit provided E2e-Functional phone, call box or device connected to power source provided within B4-Recordkeeping: water quality, injuries, fecal accidents; staff certifications; maint 500 ft of pool; emergency contact numbers provided per rule 04(E)(3)(c) records for SVRS/ auto chem. controllers £3-Signs. BS-Record retention: keep for at least two years available upon request E3a-"Warning, No Lifeguard" sign provided as req'd E3b-Pools w/o lifeguards provide signs per rule 04(E)(3)(b): -"Swimming alone is not recommended" B6-Maintenance/Repair. Equipment maintained safe, clean, sanitary, good repair per mfr. specifications; approved plans per rules B6a-Pool structure watertight w/ cleanable surfaces; vinyl liner used for repair; pool -"Children must be supervised" interior surfaces white/lane markers/logos, as approved 86b-Replacement pipe per rule 5.1(C)(2) E3c-Emergency phone location sign posted when phone or device is not visible; emergency contact numbers provided 86c-Cross connection hazards prohibited; backflow prevention devices maintained; E3d-"Pool Closed" sign posted when pool is closed discharge lines/sumps open w/ air gap; equip floors free of standing water; no E3e-Spa caution sign posted per rule 04(E)(3)(e) condensate added to pool; all these and pool discharge water per rule 5.1(E) E3f-Slide safety recommendations posted per rule 04(E)(3)(f) E3g-Spray ground warning sign posted per rule 5.1(Y)(9) B6d-Spa drainage equip on site B6e-Equip labels maintained or information on file E4-Req'd guards are on duty/ assigned an area w/ view of pool bottom B6f-Turnover rates maintained per rule 5.1(F)(1); water quality maintained E4a-Pools < 6,000sf: No. of lifeguards matches the table in rule 04(E)(4)(a) B6g-Throttle valves maintained/ adjusted/labeled E4ai-Additional lifeguards req'd for the bather load/ pool activities E4aii-Pool surface area available to patrons applies, and to rule 04(E)(B) B6h-Meters/gauges maintained per rule 5.1(F)(2)(b)(i) B6i-Means of measuring flow properly installed for all pumps E4b-Pools > 6,000sf w/ a written lifeguard coverage plan per rule (E)(4)(c) and: B6j-SVRS devices functional/tested per rule 04(B)(4(c) E4bi-Sketch of the pool w/ dimensions B6k-Outlet covers installed/secured; skimmer equalizers w/covers/plugged E4bil-Location of lifeguard stations incl. special features B6l-Secondary means of entrapment prevention, as approved: a second outlet drain; E4bili-Lifequard scanning areas designated gravity flow w/unblockable cover; unblockable outlet cover w/sump; SVRS device E4biv-Amendments to the drawing for changes in bather load, swim practice, etc. B6m-Sprayground mixing-holding tank per 5.1 (Y)(2&3) B6n-Water (operating) fevel per rule 01(BB) E4bv-Revisions to pool area changes, added special feature, change in line of sight E4c-Number of lifequards is sufficient when: B60-Access ladders, steps, recessed steps, hand rails slip resistant/good repair E4ci &ii- All pool surface areas and bottom, in use, always provide a clear line of sight; reachable within B6p-Deck surfaces clean, smooth slip resistant/no standing water/ hazards E4ciii-Each **lifeguard** can **scan** their assigned area within 20 seconds E4civ-Bather safety can effectively be controlled B6q-Depth markers per rule 5.1(H) 86r-Safety lines installed per rule 5.1(N); may be temporarily removed B6s-Perimeter barriers maintained prior to these rules, installed per rule 5.1 (O) E4d Elevated lifeguard stands provided other than for roaming lifeguards B6t-Equip/Chemical storage areas clean, no hazards; staff access only B6u-Ventilation system good repair, no hazards per rule 5.1(R) E4di-Diving stands, in use, always require a lifeguard E4dii-A zero depth or other similar area (O to > 24") requires > 1 lifeguard B6v-Electrical system good repair, no hazards per rule 5.1(S) E4diii-Water stides > 10' requires a lifeguard to supervise/access landing areas B6w-Lighting adequate during pool use per rule 5.1(T) E4diii a-Multiple slide flumes, in use, may use only one lifeguard E4diii b-Slides > 25' require a lifeguard in the landing area B6y-Chemicals stored in labeled containers/ properly used w/o hazards E4diii c-Slides > 10' w/dispatchers, properly attired w/ contact to guard in landing area E4diii d-Patrons height < posted restrictions may be tested for swimming proficiency B6z-Special features: slides, fountains, other water attractions in repair/per mfr specs B6aa-Diving areas/components in good repair; alterations to equip per rule 5.1(K) NOTE: when the fixtures in rule (E)(d) are not used and made inaccessible those guards may be relieved B6bb-Pools w/existing rec diving equip per rule 04(B)(6)(bb) & Appendix B B6cc-Starting blocks in repair/inaccessible to public BUT at least one lifeguard is always required for the pool E4e-Guards on duty shall: E4ei-Capable swimmers/perform tasks per their certifications

B6x-Sprayground spray pad free of accumulated debris

B7-Domestic animals prohibited in pool/within barrier during regular swim season

3701-31-04(C) WATER QUALITY: testing frequency per rule 04(8)(4)(a)

C1-Approved water supply per rule 5.1(D)

C2-pH 7.2 to 7.8

C3-Total alkalinity > 60 ppm

C4-Total dissolved solids not to impair water clarity/ water quality per rule 04(C)

C5-Water clarity sufficient to see bottom of pool

C6-Pool water temperature < 90F, or as approved

C7-**Spa water** temperature < 104F

C8-Spa water replaced every 30 days

E4eiv-Similarly attired/identifiable

E4evi-Not engaged with swim classes/ coaching E4evii-Rescue tube and CPR pocket mask, on person E4eviii-Current-valid lifeguard training certificate

E4eii-Responsible for bathers in assigned areas

E4eiii-Clear unobstructed view of pool bottom

E4ev-Prepared to enter water immediately

E4eix-Current-valid CPR training certificate w/pocket mask & bag valve

E4ex-Current-valid first aid training certificate

Water Chemistry—to adjust: add CHEMICALS SLOWLY to WATER in a pail; mix dilution, disperse into pool; test; repeat as needed.

To Hyper chlorinate (Whenever the combined chlorine value is over approx. 0.4 ppm): the amount of free chlorine to neutralize the combined = (.4) X 10 or 4.0 ppm (free chlorine)

To raise Chlorine (1ppm/10,000 gal of pool water): add 2 oz Calcium Hypochlorite (65%); add 10.7 fl oz Sodium Hypochlorite (12%)

To neutralize excess chlorine (1ppm/10,000 gal of pool water): add 1 oz Sodium Thiosulfate-carefully, or more chlorine will be required to off set the extra neutralizer

To LOWER Cyanuric Acid, Total Dissolved Solids (TDS), or Calcium Hardness: drain a portion or all of the pool.

To RAISE pH (.2 units/10,000 gal of pool water-based upon BASE demand test/ Alkalinity); add 6 oz of Sodium Carbonate (Soda Ash)

To LOWER pH (.2 units/10,000 gal of pool water, based upon ACID demand test/ Alkalinity): add 12 oz Muriatic acid or 1.0 lb. Sodium Bisulfate (dry acid)

To RAISE Alkalinity (10 ppm/10,000 gal of pool water): add approx. 1.5 lbs. Sodium Bicarbonate (Baking Soda)

To LOWER Alkalinity (10 ppm/10,000 gal of pool water); add approx, add 26 oz Muriatic acid or 2.15 lbs, Sodium Bisulfate (dry acid)

To RAISE Calcium Hardness (10 ppm/10,000 gal of pool water, based upon Calcium Hardness test): add. 9 lbs Calcium Chloride Dihydrate (100%)

Public Swimming Pool Inspection Report-Continuation Sheet

THE ITEMS LISTED BELOW ARE IN VIOLATION OF OHIO ADMINISTRATIVE CODE CHAPTER 3701-31 AND MUST BE CORRECTED

Page: 2 of 2 7/19/19 Cite the specific rule number, explain where and what violation has occurred, and when the violation must be corrected B6i-Means of measuring flow properly installed for all pumps: Observed, in the upstairs filter room, that both of your flow meters were disconnected and non functioning and that one was missing its flow indicator float. You must replace these two Blue/White Flow Meters with new oe of the same type and capacity and hav them installed in a section of the PVC pipe that has at least 18 of clear unobstructed run. You have one week to correct this issue. D8-Proper DPD test kit in repair, reagents fresh: Observed that you and your pool staff didn't have the proper type of chemical test kit needed to perform the required proper chemical residual tests (total chlorine, free chlorine, and combined chlorine as well as the proper chemical to test your pool for cyanuric acid levels You need to purchase the proper pool test kit immediately (a Taylor Deluxe DPD for commercial pools or a brand equivalent to it. C6-Pool water temperature < 90F, or as approved: Observed that you weren't able to determine the water temperature of the Baby Pool because there was no thermometer installed in the pool. You will be required to install a pool thermometer immediately and document pool temperatures every 4 hours of the pools operation... B6s-Perimeter barriers maintained prior to these rules, installed per rule 5.1 (O) and or B6-Maintenance/ Repair: Observed that when we tested the ability of the entry/exit gate(s) to be to close & latch closed, without human assistance, that they were unable to do so. You will be required to immediately repair or replace these non functioning gates and closure latches. **B1h-Natural or artificial light insufficient:** Observed that when we went into the basement pump room that both interior light fixtures were burned out resulting in the room being extremely dark. In order to prevent the possibility of an accident occurring. You will be required to immediately repair or replace the burned out interior ceiling light fixtures. B6s-Perimeter barriers maintained prior to these rules, installed per rule 5.1 (O) and or B6-Maintenance/ Repair: Observed that when we in the basement pump room that there was a open floor pit filled with water that

measured approximately 3ft wide X 8ft. X 4 1/2ft. deep. You will be required to immediately cover the open floor pit to prevent the possibility of an accident happening.

B6s-Perimeter barriers maintained prior to these rules, installed per rule 5.1 (O) and or B6-Maintenance/

Repair: Observed that when we in the basement pump room that there was a brown colored metal unlocked/ unsecured chain at the top of the steep steps leading down to the basement pump room. You will be required to immediately install a lock on the chain to prevent the possibility of entry of an unauthorized individual.

B1 (c) (d) (h): Observed we were unable to determine the critical readings needed in these areas as a result of operators improper test kit and or inadequate lighting. You will be required to address these deficiencies immediately as cited previously on page 1 and or page 2.

Water Clarity 3701-31--04 D6: Observed we were unable to determine the critical readings needed in these areas as a result of operators improper test kit and or inadequate or missing equipment. You will be required to address these deficiencies: total, free, and combined chlorine immediately by purchasing commercial DPD test kit. immediately as cited previously on page 1 and or page 2.

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Equipment maintained safe, clean, sanitary, good repair per mfr. specifications; approved plans per rules B6a-Pool structure watertight w/ cleanable surfaces; vinyl liner used for repair; pool -"Children must be supervised" interior surfaces white/lane markers/logos, as approved 86b-Replacement pipe per rule 5.1(C)(2) E3c-Emergency phone location sign posted when phone or device is not visible; emergency contact numbers provided 86c-Cross connection hazards prohibited; backflow prevention devices maintained; E3d-"Pool Closed" sign posted when pool is closed discharge lines/sumps open w/ air gap; equip floors free of standing water; no E3e-Spa caution sign posted per rule 04(E)(3)(e) condensate added to pool; all these and pool discharge water per rule 5.1(E) E3f-Slide safety recommendations posted per rule 04(E)(3)(f) E3g-Spray ground warning sign posted per rule 5.1(Y)(9) B6d-Spa drainage equip on site B6e-Equip labels maintained or information on file E4-Req'd guards are on duty/ assigned an area w/ view of pool bottom B6f-Turnover rates maintained per rule 5.1(F)(1); water quality maintained E4a-Pools < 6,000sf: No. of lifeguards matches the table in rule 04(E)(4)(a) B6g-Throttle valves maintained/ adjusted/labeled E4ai-Additional lifeguards req'd for the bather load/ pool activities E4aii-Pool surface area available to patrons applies, and to rule 04(E)(B) B6h-Meters/gauges maintained per rule 5.1(F)(2)(b)(i) B6i-Means of measuring flow properly installed for all pumps E4b-Pools > 6,000sf w/ a written lifeguard coverage plan per rule (E)(4)(c) and: B6j-SVRS devices functional/tested per rule 04(B)(4(c) E4bi-Sketch of the pool w/ dimensions B6k-Outlet covers installed/secured; skimmer equalizers w/covers/plugged E4bil-Location of lifeguard stations incl. special features B6l-Secondary means of entrapment prevention, as approved: a second outlet drain; E4bili-Lifequard scanning areas designated gravity flow w/unblockable cover; unblockable outlet cover w/sump; SVRS device E4biv-Amendments to the drawing for changes in bather load, swim practice, etc. B6m-Sprayground mixing-holding tank per 5.1 (Y)(2&3) B6n-Water (operating) fevel per rule 01(BB) E4bv-Revisions to pool area changes, added special feature, change in line of sight E4c-Number of lifequards is sufficient when: B60-Access ladders, steps, recessed steps, hand rails slip resistant/good repair E4ci &ii- All pool surface areas and bottom, in use, always provide a clear line of sight; reachable within B6p-Deck surfaces clean, smooth slip resistant/no standing water/ hazards E4ciii-Each **lifeguard** can **scan** their assigned area within 20 seconds E4civ-Bather safety can effectively be controlled B6q-Depth markers per rule 5.1(H) 86r-Safety lines installed per rule 5.1(N); may be temporarily removed B6s-Perimeter barriers maintained prior to these rules, installed per rule 5.1 (O) E4d Elevated lifeguard stands provided other than for roaming lifeguards B6t-Equip/Chemical storage areas clean, no hazards; staff access only B6u-Ventilation system good repair, no hazards per rule 5.1(R) E4di-Diving stands, in use, always require a lifeguard E4dii-A zero depth or other similar area (O to > 24") requires > 1 lifeguard B6v-Electrical system good repair, no hazards per rule 5.1(S) E4diii-Water stides > 10' requires a lifeguard to supervise/access landing areas B6w-Lighting adequate during pool use per rule 5.1(T) E4diii a-Multiple slide flumes, in use, may use only one lifeguard E4diii b-Slides > 25' require a lifeguard in the landing area B6y-Chemicals stored in labeled containers/ properly used w/o hazards E4diii c-Slides > 10' w/dispatchers, properly attired w/ contact to guard in landing area E4diii d-Patrons height < posted restrictions may be tested for swimming proficiency B6z-Special features: slides, fountains, other water attractions in repair/per mfr specs B6aa-Diving areas/components in good repair; alterations to equip per rule 5.1(K) NOTE: when the fixtures in rule (E)(d) are not used and made inaccessible those guards may be relieved B6bb-Pools w/existing rec diving equip per rule 04(B)(6)(bb) & Appendix B B6cc-Starting blocks in repair/inaccessible to public BUT at least one lifeguard is always required for the pool E4e-Guards on duty shall: E4ei-Capable swimmers/perform tasks per their certifications

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E4ev-Prepared to enter water immediately

E4eix-Current-valid CPR training certificate w/pocket mask & bag valve

E4ex-Current-valid first aid training certificate

Water Chemistry—to adjust: add CHEMICALS SLOWLY to WATER in a pail; mix dilution, disperse into pool; test; repeat as needed.

To Hyper chlorinate (Whenever the combined chlorine value is over approx. 0.4 ppm): the amount of free chlorine to neutralize the combined = (.4) X 10 or 4.0 ppm (free chlorine)

To raise Chlorine (1ppm/10,000 gal of pool water): add 2 oz Calcium Hypochlorite (65%); add 10.7 fl oz Sodium Hypochlorite (12%)

To neutralize excess chlorine (1ppm/10,000 gal of pool water): add 1 oz Sodium Thiosulfate-carefully, or more chlorine will be required to off set the extra neutralizer

To LOWER Cyanuric Acid, Total Dissolved Solids (TDS), or Calcium Hardness: drain a portion or all of the pool.

To RAISE pH (.2 units/10,000 gal of pool water-based upon BASE demand test/ Alkalinity); add 6 oz of Sodium Carbonate (Soda Ash)

To LOWER pH (.2 units/10,000 gal of pool water, based upon ACID demand test/ Alkalinity): add 12 oz Muriatic acid or 1.0 lb. Sodium Bisulfate (dry acid)

To RAISE Alkalinity (10 ppm/10,000 gal of pool water): add approx. 1.5 lbs. Sodium Bicarbonate (Baking Soda)

To LOWER Alkalinity (10 ppm/10,000 gal of pool water); add approx, add 26 oz Muriatic acid or 2.15 lbs, Sodium Bisulfate (dry acid)

To RAISE Calcium Hardness (10 ppm/10,000 gal of pool water, based upon Calcium Hardness test): add. 9 lbs Calcium Chloride Dihydrate (100%)