

Behind the scenes at the Aquatic Facility Almost every business is a people business. Those responsible for making both the day-to-day and major decisions need to be as informed as possible about the environment where people will work and play in the water. Whether looking at a facility through the perspective of the potential buyer or renter, or through eyes of the person now responsible for the safety and well being of patrons, the premise is the same. Every person in an aquatic facility needs to be aware of their environment.

The first impression – As soon as someone walks into a facility, the impression-making will begin. Every area will be judged with 3 criteria in mind. In their priority of perceived importance to the patron:

- 1. Aesthetics
- 2. Safety
- 3. Functionality

Aesthetics – How the general areas of the facility LOOK and SMELL and FEEL.

Under LOOKS we include:

- Lighting
- Color schemes
- Cleanliness
- Signage and bulletin boards
- Furnishings Fixtures Equipment
- Staff apparel and presentation
- General facility layout
- Information and assistance areas well marked
- Trash receptacles well placed throughout the facility
- Clocks and TV's and Mirrors in logical and user-friendly locations
- Décor pictures and colorful appropriate decorations

Under SMELLS we include:

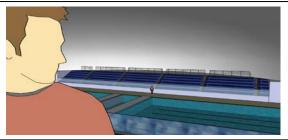
- Chlorine odors
- Cleaning odors
- Bathroom and locker odors
- Health club odors
- Food odors

Under FEELS we include:

- Various room temperatures in different zones of the building
- Air flow or breezes people can feel
- Humidity
- How are entrances and fresh air coming into building handled?
- How is noise control and reduction handled?

Safety - How all areas of the facility meet codes and protect patrons.

- Are floors non-skid in proper areas and unobstructed in all public areas?
- Do all public areas comply with ADA codes?
- Are the "WET" and DRY" areas segregated and appropriately marked?
- Are chemicals stored properly in secured areas away from public access?
- Are NON-PUBLIC areas marked with warnings and doors kept locked?
- Are all emergency exits, fire extinguishers and alarms, AED's, SHARPs containers, etc. easy to locate and clearly marked?
- Are the outside areas, entrances/exits, sidewalks, kept clear and clean?



Functionality – Does the building layout make sense to the average user? Are all amenities easy to find and use?

- Is the first thing people see inside the main entrance the information desk with a person to greet and help them?
- Do the members/users areas have controlled access so the general public cannot simply walk into them?
- Are there adequate bathrooms for the general public, members, family changing areas, caregiver and member areas, and wet and dry segregated shower/changing rooms?
- Do the pools have safe and convenient access in the form of stairs, ramps, lifts, etc.?
- Are pool decks kept clear of equipment and obstructions?
- Are there staff areas or stations that are easily accessible to the patrons?
- Are their dry viewing areas for aquatic activities so guest can watch members without getting wet or walking in wet areas?

Non-public areas – The safety and comfort of the staff is just as important as that of the members or patrons. The staff will be in the facility many more hours per day/week than any member. Here are some of the things that need to be considered:

- Staff bathrooms and changing areas need to be segregated from the public. At least 2 are needed (Men's and Women's) and they should include a bathroom showers and lockers with changing area.
- Staff break rooms are suggested. This should include a couch, table and chairs, microwave, coffee maker, refrigerator, computer station with internet access, first aid station, TV, emergency radio, etc.
- Staff should have access to a washer and dryer in the facility.

Specialty areas – These are areas that only properly trained people should be in. They include:

- HVAC and building operational equipment rooms
- Electrical rooms
- Sprinkler system rooms
- Computer router rooms
- Storage rooms for cleaning equipment and cleaning chemicals
- Pool equipment and filter rooms
- Pool chemical treatment rooms
- Record storage areas and private offices

The POOL – The areas of a pool need to be understood from a practical operational standpoint.

- The tank itself. Most pools are constructed from:
 - Gunite or shockcrete concrete that is sprayed from machine with a hose and nozzle. The surface is then plastered and a protective coating applied.
 - Concrete that is poured from a truck into forms that have been built usually out of wood. Then the pool is painted to make it waterproof.
 - Fiberglass walls with a concrete bottom which is painted.
 - Steel walls with a protective coating or liner. A concrete bottom is usually incorporated into this design then coated like the walls.
 - o Concrete block walls with a poured concrete bottom with a liner on walls and bottom.
 - o Pre-cast concrete walls with a poured bottom with a liner for bottom and walls.
 - Gunite concrete steel with tile installed on walls and bottom





- The tank needs to be checked periodically for worn spots or cracks.
 - Gunite polls will need to be re-plastered or coated every 4-6 years 0
 - Concrete pools need to be repainted every 2-4 years and the same type of paint must 0 be used as the original coating or the paint will peel.
 - Chlorinated rubber enamel paint
 - Epoxy (2 part) paint .
 - Acrylic paint
 - How long the pool is allowed to dry before painting and cure after painting will 0 determine how long it will be before repainting is necessary
 - Fiberglass will last 5 years or longer before maintenance is necessary. Many times 0 fiberglass has problems with resin bubbles and spots in the walls.
 - Pools with liners can last from 10 -12 years before liner replacement is necessary. 0
 - Tile needs to constantly be inspected and re-grouting tile can be every 3-5 years. 0 Water chemistry plays a big part in the life of the grout.
- Leaks can happen in any pool. The integrity of the circulation system is dependent on the plumber's quality of workmanship. The more pictures of piping runs taken during construction, the easier it will be to locate potential problem areas underground.
- The pool deck equipment should be made from Type 304 or Type 316 stainless steel. These • steel pieces need to be cleaned every 3 to 4 months or when rust spots appear. The steel is usually not rusting but rather droplets of water evaporate and leave rust colored deposits which build up on the surface of the steel. If not cleaned this will pit the steel and permanently mar the finish.

For stainless steel – wipe down rail or pole with a scotch guard pad.



Then wipe poles with damp towel (good quality paper towels also will work). Then apply a liquid silicone car wax – any brand will do as long as it is silicone based



Wipe away excess wax after a few minutes. This cleaning and recoating process is usually necessary 3-4 times a year.

- Other equipment that needs to be periodically inspected and cleaned are:
 - Gutters and Skimmers
 - o Diving boards, platforms, stairs, railings, etc.
 - Moveable bulkheads and their related equipment
 - o Doors and all hardware and door jams
 - Safety equipment
 - Drains are the VGB compliant and securely attached and clear from debris? 0
- The filter room is the heart of the pool. All of the operational equipment needs to be inspected weekly and routine maintenance is an absolute necessity. \
 - The pool pump will need to have the bearings lubricated on a maintenance schedule. 0 Only a marine quality lubricant should be used. The pump motor may need to be rewound after a few years of service. The pool pump should be inspected annually by a professional.
 - Pump strainer baskets need to be cleaned at least every time the filters are 0 backwashed or cleaned. A back up strainer basket should be kept alongside the pump. The rubber gaskets and any o'rings should be lubricated with a silicone based lubricant. Never use Vaseline or WD-40 around chlorine water.

- The pool filters need to be cleaned when appropriate. This is usually called backwashing and is monitored by pressure or vacuum gauges. The filter media will not last forever and usually is cleaned chemically every year and replaced every 3-4 years.
- Pipes and valves need to be inspected every week or so. A leaky pipe or a sticking valve never fix themselves. Leaks are the sign of a potential major problem. Fix it immediately.
- Pool heaters experience the most wear and tear of any equipment. The life expectancy of a pool heater is 3 to 5 years before a major overhaul is necessary. If you have a heater with titanium heat exchangers, then the repairs may be fewer and further between. The pool heaters need to be inspected by a professional every 6 months. Replace parts before they break.
- Ultra Violet units simply a necessity for indoor pools. The bulbs will burn out so you need to stock at least one back up bulb for each unit. These also need to be inspected by a professional every 6 months.
- Automatic chlorinator units. These need to be cleaned every month and inspected every time the filter is backwashed. Spare parts need to be on the shelf so the equipment can be repaired immediately. Stay way form saline generators and ozone units. Stick with chlorine/bromine and Medium Pressure UV for indoor pools and just Chlorine for outdoor pools.
- Shower and bathroom water heaters these seem to go unnoticed until one stops working. Then it is a catastrophe. Have these inspected by a professional every year.
- HVAC Heating Ventilation and Air Conditioning units. There will be at least 2 different types of units and multiple versions for each appropriate area.
 - Regular heating and air conditioning for dry areas and shower rooms.
 - These need to be inspected yearly by a professional and the air filters need to be changed every 3 months.
 - If the units have exterior vents to bring in outside air these vents need to be cleaned every year and the armatures on the vents lubricated and inspected.
 - Back up fuses need to be stocked for all units.
 - Fan and blower motors need to be lubricated according to suggested maintenance schedules
 - o Dehumidifiers and heat recovery systems for the aquatic environment.
 - These units are designed to dehumidify and control the temperature not scrub the air. The pool water must be kept in balance and free of chloramines for these units to work effectively. Clean water promotes fresh air. If there is a chlorine smell there is a problem with the water.
 - These units need to be inspected every 6 months (at the minimum). Filters, compressors, belts, etc. all need to be carefully monitored so the units remain 100% functional.
 - Ducts and vents need to be cleaned yearly and vents may need to be adjusted if necessary.
- Lighting different situations may require phased lighting
 - Lighting in public areas should be adequate and meet codes. T-3 and T-8 lights are the new energy efficient recommendations. Indirect lighting has also become popular.
 - Lighting in the pool should have at least 2 phases separately controlled. Daily
 programming requires 30 to 50 ft. candles at deck level. Event lighting needs 75 to 100
 ft. candles. Therefore banks of lights should be on separate switches/breakers so daily
 operations are on one bank of switches and event lighting on another that can be
 added to daily lighting requirements.
 - o If a bulb is out it needs to be replace immediately not "when someone can get to it".



The upkeep and continual improvement of an aquatic facility needs to be a TEAM EFFORT. Every person should be not only involved but empowered to give input and evaluate.

Walk through facility evaluation form:

Rating system 1 - 2 - 3

1 = Best condition safe and functional

2 = Average condition and may soon need maintenance but considered to be safe and functional for the time being.

3 = Needs immediate attention - not safe and/or functional (comments needed to explain)

There is a vast difference between and outdoor and indoor facility. If a section does not apply to your facility please mark DNA (Does Not Apply) under the comments

Aesthetics – How the general areas of the facility LOOK and SMELL and FEEL.

Under LOOKS we include:

	ting <i>le rating</i>	1	-	2	-	3	Comments
Colc	or scheme	es					
Circ	le rating	1	-	2	-	3	Comments
	Inliness						
Circ	le rating	1	-	2	-	3	Comments
Sign	age and	bull	etin	boa	rds		
Circ	le rating	1	-	2	-	3	Comments
Furr	ishings -	- Fix	ture	s – I	Equip	omen	t
Circ	le rating	1	-	2	-	3	Comments
Staf	fapparel	and	pres	sent	ation	1	
							Comments
Gen	eral facili	ity la	iyout	:			
Circ	le rating	1	-	2	-	3	Comments
Infor	mation a	ind a	assis	tand	ce ar	eas v	vell marked
Circ	le rating	1	-	2	-	3	Comments
Tras	h recept	acles	s we	ll pla	aced	throu	ughout the facility
Circ	le rating	1	-	2	-	3	Comments
Cloc	ks and T	V's	and	Mirr	ors i	n logi	cal and user-friendly locations
							Comments
Dác	or – pictu	ires	and	colc	orful a	appro	priate decorations
							Comments

 Chlorine odors

 Circle rating
 1
 2
 3
 Comments

 Cleaning odors

 Circle rating
 1
 2
 3
 Comments

• Bathroom and locker odors

	Circle rating	1	-	2	-	3	Comments
•	Health club of <i>Circle rating</i>			2	-	3	Comments
•	Food odors <i>Circle rating</i>	1	-	2	-	3	Comments
•	EELS we inclu Various room			ature	es in	diffei	rent zones of the building
	Circle rating	1	-	2	-	3	Comments
•	Air flow or bre	eze	s pe	ople	e can	feel	
	Circle rating	1	-	2	-	3	Comments
•	Humidity Circle rating	1	-	2	-	3	Comments
•							ming into building handled?
	Circle rating	1	-	2	-	3	Comments
•	How is noise	cont	rol a	and I	educ	ction	handled?
	Circle rating	1	-	2	-	3	Comments

Safety – How all areas of the facility meet codes and protect patrons.

Circle rating 1 - 2 - 3 Comments
Do all public areas comply with ADA codes?
Circle rating 1 - 2 - 3 Comments
Are the "WET" and DRY" areas segregated and appropriately marked?
Circle rating 1 - 2 - 3 Comments
Are chemicals stored properly in secured areas away from public access?
Circle rating 1 - 2 - 3 Comments
Are NON-PUBLIC areas marked with warnings and doors kept locked?
Circle rating 1 - 2 - 3 Comments
Are all emergency exits, fire extinguishers and alarms, AED's, SHARPs containers, easy to locate and clearly marked?
Circle rating 1 - 2 - 3 Comments
Are the outside areas, entrances/exits, sidewalks, kept clear and clean?
Circle rating 1 - 2 - 3 Comments

 Functionality – Does the building layout make sense to the average user? Are all amenities easy to find and use?

 Circle rating
 1
 2
 3
 Comments

Is the first thing people see inside the main entrance the information desk with a person to greet and help them?
 Circle rating 1 - 2 - 3 *Comments*

•	Do the memb	ers/	user	s ar	eas	have	controlled access so the general public canno	ot
	simply walk in	nto th	nem	?				
	Circle rating	1	-	2	-	3	Comments	

- Are there adequate bathrooms for the general public, members, family changing areas, caregiver and member areas, and wet and dry segregated shower/changing rooms?
 Circle rating 1 2 3 *Comments*
- Do the pools have safe and convenient access in the form of stairs, ramps, lifts, etc.? *Circle rating* 1 - 2 - 3 *Comments*
- Are pool decks kept clear of equipment and obstructions? *Circle rating* 1 - 2 - 3 Comments _______
- Are there staff areas or stations that are easily accessible to the patrons? *Circle rating* 1 - 2 - 3 *Comments*
- Are their dry viewing areas for aquatic activities so guest can watch members without getting wet or walking in wet areas?
 Circle rating 1 2 3 *Comments*

Non-public areas – The safety and comfort of the staff is just as important as that of the members or patrons. The staff will be in the facility many more hours per day/week than any member.

- Staff bathrooms and changing areas need to be segregated from the public. At least 2 are needed (Men's and Women's) and they should include a bathroom showers and lockers with changing area.
 Circle rating 1 2 3 Comments
- Staff break rooms are suggested. This should include a couch, table and chairs, microwave, coffee maker, refrigerator, computer station with internet access, first aid station, TV, emergency radio, etc.
 Circle rating 1 2 3 Comments
- Staff should have access to a washer and dryer in the facility.
 Circle rating 1 2 3 Comments ______

Specialty areas – These are areas that only properly trained people should be in. They include:

HVAC and building op <i>Circle rating</i>	1	-	2	-	3	Comments
Electrical rooms						
Circle rating	1	-	2	-	3	Comments
Sprinkler system roon						
Circle rating	1	-	2	-	3	Comments
Computer router room	าร					
Circle rating	1	-	2	-	3	Comments
Storage rooms for cle	anir	ng e	quip	ment	and	cleaning chemicals
						Comments
Pool equipment and f	ilter	roor	ns			
				-	3	Comments
Pool chemical treatme	ent i	oon	าร			
Circle rating	1	-	2	-	3	Comments
Record storage areas	and	d pri	vate	offic	es	
						Comments

The POOL -

- The tank needs to be checked periodically for worn spots or cracks.
 - Gunite polls will need to be re-plastered or coated every 4-6 years Circle rating 1 - 2 - 3 Comments
 - 0 Concrete pools need to be repainted every 2-4 years and the same type of paint must be used as the original coating or the paint will peel.
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 - Pools with liners can last from 10 -12 years before liner replacement is necessary. Circle rating 1 - 2 - 3 Comments
 - Tile needs to constantly be inspected and re-grouting tile can be every 3-5 years. 0 Water chemistry plays a big part in the life of the grout. Circle rating 1 - 2 - 3 Comments
- Leaks can happen in any pool. The integrity of the circulation system is dependent on the plumber's quality of workmanship. The more pictures of piping runs taken during construction, the easier it will be to locate potential problem areas underground. Circle rating 1 - 2 - 3 Comments
- The pool deck equipment should be made from Type 304 or Type 316 stainless steel. These steel pieces need to be cleaned every 3 to 4 months or when rust spots appear. The steel is usually not rusting but rather droplets of water evaporate and leave rust colored deposits which build up on the surface of the steel. If not cleaned this will pit the steel and permanently mar the finish.

For stainless steel – wipe down rail or pole with a scotch guard pad.



Then wipe poles with damp towel (good quality paper towels also will work). Then apply a liquid silicone car wax - any brand will do as long as it is silicone based

Wipe away excess wax after a few minutes. This cleaning and recoating process is usually necessarv 3-4 times a vear.

Circle rating 1 - 2 - 3 Comments

Other equipment that needs to be periodically inspected and cleaned are:

0	Gutters and S	Skim	mer	S			
	Circle rating	1	-	2	-	3	Comments

- Diving boards, platforms, stairs, railings, etc. Circle rating 1 - 2 - 3 Comments _____
- Moveable bulkheads and their related equipment 0 Circle rating 1 - 2 - 3 Comments

>	Safety equipment
,	Circle rating 1 - 2 - 3 Comments
C	Drains – are the VGB compliant and securely attached and clear from debris? <i>Circle rating</i> 1 - 2 - 3 <i>Comments</i>
	er room is the heart of the pool. All of the operational equipment needs to be inspect and routine maintenance is an absolute necessity. \
C	The pool pump – will need to have the bearings lubricated on a maintenance sche Only a marine quality lubricant should be used. The pump motor may need to be wound after a few years of service. The pool pump should be inspected annually l professional.
	Circle rating 1 - 2 - 3 Comments
D	Pump strainer baskets need to be cleaned at least every time the filters are backwashed or cleaned. A back up strainer basket should be kept alongside the p The rubber gaskets and any o'rings should be lubricated with a silicone based lubricant. Never use Vaseline or WD-40 around chlorine water. <i>Circle rating 1 - 2 - 3 Comments</i>
D	The pool filters need to be cleaned when appropriate. This is usually called backwashing and is monitored by pressure or vacuum gauges. The filter media wi last forever and usually is cleaned chemically every year and replaced every $3-4$ y <i>Circle rating</i> $1 - 2 - 3$ <i>Comments</i>
D	Pipes and valves need to be inspected every week or so. A leaky pipe or a stickin valve never fix themselves. Leaks are the sign of a potential major problem. Fix it immediately. <i>Circle rating</i> 1 - 2 - 3 <i>Comments</i>
þ	Pool heaters experience the most wear and tear of any equipment. The life expect of a pool heater is 3 to 5 years before a major overhaul is necessary. If you have a heater with titanium heat exchangers, then the repairs may be fewer and further between. The pool heaters need to be inspected by a professional every 6 months Replace parts before they break. <i>Circle rating</i> 1 - 2 - 3 <i>Comments</i>
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Regular heating and air conditioning for dry areas and shower rooms.
These need to be inspected yearly by a professional and the air filters need to be changed every 3 months.

Circle rating 1 - 2 - 3 Comments

	Circle rating 1 - 2 - 3 Comments
	 Fan and blower motors need to be lubricated according to suggested maintenance schedules
_	Circle rating 1 - 2 - 3 Comments
0	Dehumidifiers and heat recovery systems for the aquatic environment.
	 These units are designed to dehumidify and control the temperature not scru
	the air. The pool water must be kept in balance and free of chloramines for these units to work effectively. Clean water promotes fresh air. If there is a
	chlorine smell there is a problem with the water.
	Circle rating 1 - 2 - 3 Comments
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	Circle rating 1 - 2 - 3 Comments
-	 Ducts and vents need to be cleaned yearly and vents may need to be adjuste if necessary.
	Circle rating 1 - 2 - 3 Comments

If a bulb is out it needs to be replace immediately not "when someone can get to it".
 Circle rating 1 - 2 - 3 *Comments*

Circle rating 1 - 2 - 3 Comments

Many times this list in intimidating and the instructor or employee thinks – "this is not my job". We would then ask – "if not you then who? It's everyone's job to help the person in charge operate the best facility possible. Education and Cooperation is a necessity.

added to daily lighting requirements.

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SPLASK	1	2	3	4	5	6	7	8	9	1 0	1 1	1 2	1 3	1 4	1 5	1 6	1 7	1 8	1 9	2 0	2 1	2 2	2 3	2 4	2 5	2 6	2 7	2 8	2 9	3 0	3 1
POOL AREA - Daily procedures																															
Lights on																															_
Locker & Bath room check - toilet																															
paper, towels, general cleanliness																															
Benches & Chairs wiped off																															
Uncover pool – check covers & rollers																															
Check pools -clarity and bottom clean																															
Test water-pH +CL x2 and record AM																															
Test water-pH +CL x2 and record PM																															
Clocks on correct time																															
Ck calendar for daily events /clients																															
POOL FILTER ROOM – Daily procd																															_
Check pumps and filters for leaks or																															_
unusual noises																															
Check chemical containers										-																					
Ck area of room for proper storage					<u> </u>			<u> </u>																							
Check for wet floor																															
LAND AREA – Daily procedures																															
Lights on		<u> </u>	<u> </u>		L			L																							
Pick up rooms																															
Access area check																															
Check supplies																															
POOL AREA – Daily routine																															
Greet members by name and interact																															
Encourage members																															
Maintain safety of member and pool																															
Reports attendance and maintenance																															
Distribute information																															
Cover and uncover pools as needed																															
Clean equip. spray with disinfectant																															
Safety check on all equipment																															
Report comments or concerns – in																															
writing - to supervisor																															
Hosing of decks & floors																															
Weekly /Monthly																															
Pool cover cleaning																															
Rust inhibitors for any metal																															
Clean metal – silicone																															
Check gutters for build up																															
Check pool Vac equipment																															
Check test kit for chemical testers	-	-	-	-		-	-					-		-								-	-								_
Disinfect decks and floors	-	-	-	-		-	-					-		-								-	-								-
Check written reports		-	-																	\vdash											
Closing Procedures - Daily																															
Bathroom Ck - toilet paper, towels																															
Bathoom CK - tollet paper, towers Benches wipe off		-	-																	\vdash											_
Check pools	-	-	-			-	-																							_	—
Hook up Vac - cover pools		-	-																												_
Towels supply		-	-																	\vdash											
		<u> </u>	<u> </u>																												
Lights off Lock area																															
LUCK AFEA																															
	1	2	3	4	5	6	7	8	9	1	1	1	1	1	1	1	1	1	1	2	2	n	n	n	n	n	2	2	2	2	2
SPLASH		2	3	4	э	0	/	ő	4	1 0	1 1	1 2	1 3	1 4	1 5	1 6	1 7	1 8	1 9	2 0	2 1	2 2	2 3	2 4	2 5	2 6	2 7	2 8	2 9	3 0	3 1
v																															

And always remember this is a people business......

