

**Sorensen, Christina**

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**From:** John Wahler <info@aquadynamics.biz>  
**Sent:** Saturday, January 11, 2020 12:38 PM  
**To:** Sorensen, Christina  
**Cc:** Kirk Olney; Ofelia Taboada  
**Subject:** Pembroke Pines Aquatic village 50 m pool

Dear Christina

During my inspection of the site on January 9, 2020 I observed the exposure and damage to the return fittings in the middle portion of the pool floor. Some of the inlet fittings have been seriously damaged and require replacement as you now know. The pool contractor has cut the floor in several locations and exposed these fittings for the upcoming repair

After observing these open areas I noticed the void areas surrounding the slab immediately around each fitting. Although I am not sure of the exact reason for the failure of these return fittings, one possible cause was due to some slab settlement.

Since these areas are completely exposed now I am recommending that we fill the areas around all of these fittings with the polyurethane foam injection method. I have forwarded the contact information for the contractor who recently performed a similar procedure at Coral Springs Aquatic Center Pool

To the best of my knowledge and belief, this would be the most prudent method for filling in the areas underneath the slab as this type of material expands under pressure and will fill all voids it can find in the area currently affected. Although this may be the more expensive option, I feel it would be best suited for a future performance of the pool facility.

The alternative method for repair would be the less expensive Flowable Fill Method, although this material will not find its way under the slab to the smaller void areas so I am reluctant to recommend this as the primary process

As you know we have discussed all of this during our meeting at the site, however I am writing this letter just to record our discussion and for you to present this as a record to the Pembroke Pines city manager.

Please reach out to me if you need anything in addition to what I have mentioned above or if I have missed anything you think may be important

Sincerely,

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Sent from my iPhone

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