

JLA Geosciences, Inc.

HYDROGEOLOGIC CONSULTANTS

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November 27, 2024,

Via Electronic Mail

Gustavo Vergara, CPRE
Parks, Recreation & Conservation
Operations and Programs Assistant Director
1590 9th St SW
Vero Beach, FL 32962

**RE: *Proposal for Indian River County, Parks, Recreation & Conservation Department,
North County Pool Heat Exchange System UFA Supply Well Abandonment***

Dear Mr. Vergara:

JLA Geosciences, Inc. (JLA) is pleased for the opportunity to assist Indian River County Parks, Recreation and Conservation Department (IRC) with hydrogeologic consulting services. The IRC North County Aquatic Complex (NCAC) operates a closed loop heat exchange system to regulate water temperature utilizing water from the Upper Floridan Aquifer (UFA). Recently the UFA supply well started producing substantial quantities of sand and has made the heat exchange system inoperable. A recent downhole investigatory video and testing scope identified multiple failures in the supply well casing and it was determined that the well could not be repaired. Additionally, after the well was shut in artesian flow to the ground was observed on the outside of the UFA supply well steel casing. The uncontrolled artesian flow through holes in the well casing to the ground surface needs to be addressed immediately by properly plugging and abandoning the NCAC UFA supply well.

Outlined below are the specific tasks included in our proposed scope of work, along with the associated costs for your thorough review and consideration. Our dedicated team is committed to delivering outstanding results, ensuring the project maintains the highest standards of quality.

- 1.0 NCAC UFA Supply Well Abandonment** – Well abandonment work will include mobilization, salt killing well, installation of tremie pipe to maximum allowable depth, pumping of neat cement grout from bottom of well up to land surface to properly abandon the well. A JLA hydrogeologist will coordinate with CLD on the well abandonment and will be present on-site to confirm tremie pipe depths, grouting procedures and quantities to ensure proper well abandonment. Following abandonment CLD will complete a well abandonment permit for submittal to St. Johns River Water Management District (SJRWMD).

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Outlined below are the specific tasks included in our proposed scope of work, along with the associated costs for your thorough review and consideration.

TASK	COST
1.0- UFA WELL ABANDONMENT	\$14,772.00
PROJECT TOTAL	\$14,772.00

This proposal has been carefully prepared using the information provided and our understanding of the project. If there are any additional details or specific requirements that we may have inadvertently overlooked, we would be more than happy to review any additional information provided. Our aim is to ensure that the scope of work and associated costs align with your expectations and project goals.

Thank you once again for considering our services. We look forward to continuing our collaboration with you on this project.

Sincerely,
JLA Geosciences, Inc.



Jon Friedrichs, P.G.
Principal Hydrogeologist

**ATTACHMENT A
BUDGET SUMMARY**

Client: Indian River County Parks, Recreation & Conservation
 Consultant: JLA Geosciences, Inc.
 Project Title: North County Aquatic Complex Floridan Well Abandonment

Task No.	Task Description	Labor Classification and Hourly Rate											Mileage (\$0.67/mi)	ODC	Sub Consultant Services	TASK TOTAL	
		President	Prin./Hydro Corp. Officer	Prj. Manager Sr Hydro III	Senior Hydro II	Senior Hydro I	Hydro III	Hydro II	Hydro I	Hydro Tech	Admin / Tech	Total Labor					
1.0	Well Abandonment																
	Coordination, planning and meetings with IRC and Well contractor. Oversight during well abandonment.		2.0						10.0				\$ 146.00				\$ 1,902.00
	Work Performed by Centerline - Artesian Well Abandonment														\$ 12,870.00		\$ 12,870.00
	Subtotal Task 1.0	0.0	2.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	12.0	\$ 146.00	\$ -	\$ 12,870.00	\$ 14,772.00		
	Labor Subtotal Hours	0.00	2.00	0.00	0.00	0.00	0.00	10.00	0.00	0.00							
	Labor Hourly Billing Rates	\$ 249.00	\$ 238.00	\$ 214.00	\$ 197.00	\$ 162.00	\$ 151.00	\$ 139.00	\$ 128.00	\$ 112.00	\$ 92.00						
	Labor Subtotal	\$ -	\$ 476.00	\$ -	\$ -	\$ -	\$ -	\$ 1,280.00	\$ -	\$ -							
	Labor Total																\$1,756.00
	Mileage/ODC																\$146.00
	Subconsultant Total																\$12,870.00
	Project Total																\$14,772.00

Please be advised that the rates outlined in this proposal are valid for a duration of 90 days from the date of this proposal's issuance. After this period, adjustments to the rates may occur to accommodate annual rate increases