

October 23, 2019

To: Shannon LaRocque, P.E.

Utility Director Village of Wellington 12300 Forest Hill Blvd Wellington, FL 33414

Project: Village of Wellington

Subject: Phase III Well Rehabilitation Cost Proposal

We are pleased to offer this estimate to furnish all labor, equipment, and materials to perform well rehabilitation services identified below.

EXHIBIT A WELLINGTON SAS WELL REHABILITATION PHASE 3 - PROPOSED SERVICES

	WELL R-1									
ITE M #	DESCRIPTION	QUANTITY	UNIT	UN	NIT PRICE	VALUE	CONTRAC T TIME (DAYS)			
1	Traffic Control	0	Ea.	\$	1,000.00	\$0.00	21			
2	Biological Activity Reaction Test (BART'S)	0	Ea.	\$	100.00	\$0.00				
3	Specific Capacity Test before or after rehabilitation	2	Ea.	\$	500.00	\$1,000.00	1			
4	Wire to Water pump efficiency test	0	Ea.	\$	500.00	\$0.00				
5	Step Drawdown Test	1	Ea.	\$	1,000.00	\$1,000.00	7			
6	Extra Sand testing not during well development or pump testing	0	Ea.	\$	500.00	\$0.00				
7	Silt density index test (passing only, SDI Test less than 3)	0	Ea.	\$	500.00	\$0.00				



8	Remove and Reinstall Fencing to original condition	0	Ea.	\$ 500.00	\$0.00	
9	Remove Surficial Wellhead, column pipe, and well pump with motor and accessories	1	Ea.	\$ 2,500.00	\$2,500.00	2
10	Reinstall Surficial Wellhead column pipe, and well pump with motor and accessories	1	Ea.	\$ 2,500.00	\$2,500.00	2
11	360 Degree Color Video with triplicate DVD's including contractor pump	2	Ea.	\$ 2,500.00	\$5,000.00	1
12	Pump Motor Retrieval	0	Ea.	\$ 5,000.00	\$0.00	14
13	Chemical Treatment - Acid Descaler 55 gal.	0	Ea.	\$ 10,000.00	\$0.00	2
13A	Additional Chemical Treatmenr - Acid Descaler 55 gal.	0	Ea.	\$ 10,000.00	\$0.00	
14	Chemical Treatment - Chlorine	0	Ea.	\$ 1,500.00	\$0.00	2
15	Acidize Well - 1,000 gal. 15% HCL	1.24	Ea.	\$ 25,000.00	\$31,000.00	10
16	CO2 Injection - (3-4 Tons)	0	Ea.	\$ 25,000.00	\$0.00	30
17	Clean Casing & Screen	0	Ea.	\$ 2,500.00	\$0.00	7
18	Brushing, Swabbing & Jetting - Well Development	0	Ea.	\$ 2,500.00	\$0.00	14
19	Drill Rig w/ Crew		Hour	\$ 500.00	\$0.00	
20	Two Man Crew w/ Crane		Hour	\$ 400.00	\$0.00	
21	Each Additional Crew Member		Hour	\$ 50.00	\$0.00	
22	Parts Supplies by Contractor without Contractors Markup		Lump	\$10,000	\$0.00	
22A	Contractor's markup on parts under bid item 22			\$ 0.15	\$0.00	



23	Well Abandonment	0	Ea.	\$ 5,000.00	\$0.00	
24	Neat Cement for Well	0	CY	\$ 500.00	\$0.00	
	Abandonment					
25	Mud Well, Remove Exist. Inner Casing/ Screen, Riser & Gravel Pack	1	Ea.	\$ 40,000.00	\$40,000.00	21
26	Furnish 12" Diameter 316L SS Well Screen 30 to 100 Slot	50	Ft.	\$ 250.00	\$12,500.00	30
27	Furnish 12" Diameter Certalok Riser	70	Ft.	\$ 150.00	\$10,500.00	14
28	Install Well Screen & Riser	1	Ea.	\$ 5,000.00	\$5,000.00	7
29	Furnish & Install Gravel Pack	115	CF	\$ 25.00	\$2,875.00	7
30	Well Development Pump - 2,000 to 3,000 gpm	150	Hour	\$ 250.00	\$37,500.00	14
31	Well Development & Redevelopment - Airlift 600 - 750 CFM	100	Hour	\$ 250.00	\$25,000.00	21
32	Disposal of Development Water	1	Ea.	\$ 2,500.00	\$2,500.00	
33	Disposal of Development Solids	1	Ea.	\$ 2,500.00	\$2,500.00	
34	Furnish & Install 1" PVC Stilling Well - 60' to 80'	1	Ea.	\$ 2,500.00	\$2,500.00	
35	Furnish & Install 2 new SS Safety Cables - 60' to 80'	0	Ea.	\$ 600.00	\$0.00	
36	On Site Welding	0	Hour	\$ 125.00	\$0.00	
37	Machine Shop Welding	0	Hour	\$ 100.00	\$0.00	
38	Disassembly & Inspection of Pump	0	Ea.	\$ 1,500.00	\$0.00	1
39	Pump Maintenance	0	Hour	\$ 100.00	\$0.00	7
40	Trip Impeller	0	Ea.	\$ 500.00	\$0.00	7
41	Motor Maintenance	0	Hour	\$ 100.00	\$0.00	7



Ī	TOTALS \$1							148
		Clearance						
ſ	43	BACT Health Dept.	10	Ea.	\$	150.00	\$1,500.00	20
	42	Disinfect Well - Health Dept. Clearance	1	Ea.	>	2,000.00	\$2,000.00	2
1	42	Disinfect Well Health	1	Го.	۲ ا	2 000 00	¢2,000,00	2

			Well R7			
ITE M#	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	VALUE	CONTRACT TIME (DAYS)
3	Specific capacity test before or after rehabilitation	2	Each	\$500.00	\$1,000.00	2
8	Remove and reinstall fencing to original condition	0	Each	\$500.00	\$0.00	
9	Remove Surficial wellhead, column pipe, and well pump with motor and accessories	1	Each	\$2,500.00	\$2,500.00	2
10	Reinstall Surficial wellhead, column pipe, and well pump with motor and accessories	1	Each	\$2,500.00	\$2,500.00	2
11	Combined Static and Dynamic Down Hold 360 degree color video survey with triplicate DVD's including contraction pump	2	Each	\$2,500.00	\$5,000.00	2



14	Chemical treatment of well with 2,500 gallons of 1,000 ppm chlorine solution and neutralize waste	1	Each	\$1,500.00	\$1,500.00	2
15	Acidize well with 1,000 gallons of 15% HCL acid (pump removed), Neutralize and legally dispose of waste. Must use Time Retard Agent.	1	Each	\$25,000.0 0	\$25,000.00	10
17	Clean casing and screen with casing scraper and brush	1	Each	\$2,500.00	\$2,500.00	7
18	Brushing, swabbing and jetting to develop well	1	Each	\$2,500.00	\$2,500.00	14
19	Drill rig with crew	0	Hour	\$500.00	\$0.00	
20	Two man crew with crane for pipe modifications and small projects	0	Hour	\$400.00	\$0.00	
21	Each additional crew member	0	Hour	\$50.00	\$0.00	
22	Parts supplied by contractor without Contractor's mark up	0	Lump	\$10,000.0 0	\$0.00	
22 A	Contractor's mark up on parts under bid item 22	0	Decimal markup	\$0.15	\$0.00	
23	Well abandonment (does not include cost of grout)	0	Each per well	\$5,000.00	\$0.00	_



24	Neat cement grout for well abandonment	0	Cubic Yards	\$500.00	\$0.00	
29	Furnish and install gravel pack for well screen	54	Cubic Feet	\$25.00	\$1,350.00	7
30	Well development by Contractors pump 2,000 to 3,000 gpm	60	Hours	\$250.00	\$15,000.00	14
31	Well development and redevelopment by airlift with 600 to 750 CFM air compressor	40	Hours	\$250.00	\$10,000.00	21
32	Disposal of development water to lake or sewer with up to 500' of lay flat hose.	1	Each	\$2,500.00	\$2,500.00	
33	Disposal of development solids that need to be containerized and properly disposed by Contractor (in excess of 1 yd3)	0	Each	\$2,500.00	\$0.00	
34	Furnish and install new 1" PVC stilling well 60' to 80' deep	0	Each	\$2,500.00	\$0.00	
35	Furnish and install 2 new well S.S motor safety cables and appurtenances 60' to 80' deep	0	Each	\$600.00	\$0.00	
36	On-site Welding	0	Hours	\$125.00	\$0.00	
37	Machine Shop Welding	0	Hours	\$100.00	\$0.00	

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38	Disassembly and inspection of pump in shop	0	Each	\$1,500.00	\$0.00	0		
39	Pump Maintenance in shop	0	Hours	\$100.00	\$0.00	0		
40	Trim impeller in shop	0	Each impeller	\$500.00	\$0.00	0		
41	Motor maintenance	0	Hours	\$100.00	\$0.00	0		
42	Disinfect well for Health Department clearance	1	Each	\$2,000.00	\$2,000.00	2		
43	Bacteriological testing for Health Department clearance	2	Each	\$150.00	\$300.00	20		
TOTALS \$73,650.00 10								

		,	WELL 23			
ITEM #	DESCRIPTION	QUANT ITY	UNIT	UNIT PRICE	VALUE	CONTRACT TIME (DAYS)
1	Traffic Control	0	Ea.	\$ 1,000.00	\$0.00	
2	Biological Activity Reaction Test (BART'S)	0	Ea.	\$ 100.00	\$0.00	
3	Specific Capacity Test before or after rehabilitation	0	Ea.	\$ 500.00	\$0.00	1
4	Wire to Water pump efficiency test	0	Ea.	\$ 500.00	\$0.00	
5	Step Drawdown Test	1	Ea.	\$ 1,000.00	\$1,000.00	7
6	Extra Sand testing not during well development or pump testing	0	Ea.	\$ 500.00	\$0.00	

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7	Silt density index test (passing only, SDI Test less than 3)	0	Ea.	\$ 500.00	\$0.00	
8	Remove and Reinstall Fencing to original condition	1	Ea.	\$ 500.00	\$500.00	
9	Remove Surficial Wellhead, column pipe, and well pump with motor and accessories	1	Ea.	\$ 2,500.00	\$2,500.00	2
10	Reinstall Surficial Wellhead column pipe, and well pump with motor and accessories	1	Ea.	\$ 2,500.00	\$2,500.00	2
11	360 Degree Color Video with triplicate DVD's including contractor pump	2	Ea.	\$ 2,500.00	\$5,000.00	1
12	Pump Motor Retrieval	0	Ea.	\$ 5,000.00	\$0.00	14
13	Chemical Treatment - Acid Descaler 55 gal.	0	Ea.	\$ 10,000.00	\$0.00	2
13A	Additional Chemical Treatmenr - Acid Descaler 55 gal.	0	Ea.	\$ 10,000.00	\$0.00	
14	Chemical Treatment - Chlorine	0	Ea.	\$ 1,500.00	\$0.00	2
15	Acidize Well - 1,000 gal. 15% HCL	1.24	Ea.	\$ 25,000.00	\$31,000.00	10
16	C02 Injection - (3-4 Tons)	0	Ea.	\$ 25,000.00	\$0.00	30
17	Clean Casing & Screen	0	Ea.	\$ 2,500.00	\$0.00	7
18	Brushing, Swabbing & Jetting - Well Development	0	Ea.	\$ 2,500.00	\$0.00	14
19	Drill Rig w/ Crew		Hour	\$ 500.00	\$0.00	
20	Two Man Crew w/ Crane		Hour	\$ 400.00	\$0.00	



21	Each Additional Crew Member		Hour	\$ 50.00	\$0.00	
22	Parts Supplies by Contractor without Contractors Markup	0.1	Lump	\$10,000	\$1,000.00	
22A	Contractor's markup on parts under bid item 22	1000		\$ 0.15	\$150.00	
23	Well Abandonment	0	Ea.	\$ 5,000.00	\$0.00	
24	Neat Cement for Well Abandonment	0	CY	\$ 500.00	\$0.00	
25	Mud Well, Remove Exist. Inner Casing/ Screen, Riser & Gravel Pack	1	Ea.	\$ 40,000.00	\$40,000.00	21
26	Furnish 12" Diameter 316L SS Well Screen 30 to 100 Slot	60	Ft.	\$ 250.00	\$15,000.00	30
27	Furnish 12" Diameter Certalok Riser	59	Ft.	\$ 150.00	\$8,850.00	14
28	Install Well Screen & Riser	1	Ea.	\$ 5,000.00	\$5,000.00	
29	Furnish & Install Gravel Pack	120	CF	\$ 25.00	\$3,000.00	7
30	Well Development Pump - 2,000 to 3,000 gpm	150	Hour	\$ 250.00	\$37,500.00	14
31	Well Development & Redevelopment - Airlift 600 - 750 CFM	100	Hour	\$ 250.00	\$25,000.00	21
32	Disposal of Development Water	1	Ea.	\$ 2,500.00	\$2,500.00	
33	Disposal of Development Solids	1	Ea.	\$ 2,500.00	\$2,500.00	
34	Furnish & Install 1" PVC Stilling Well - 60' to 80'	1	Ea.	\$ 2,500.00	\$2,500.00	
35	Furnish & Install 2 new SS Safety Cables - 60' to 80'	0	Ea.	\$ 600.00	\$0.00	



36	On Site Welding	0	Hour	\$	\$0.00	
				125.00		
37	Machine Shop Welding	0	Hour	\$	\$0.00	
				100.00		
38	Disassembly & Inspection of	0	Ea.	\$	\$0.00	1
	Pump			1,500.00		
39	Pump Maintenance	0	Hour	\$	\$0.00	7
				100.00		
40	Trip Impeller	0	Ea.	\$	\$0.00	7
				500.00		
41	Motor Maintenance	0	Hour	\$	\$0.00	7
				100.00		
42	Disinfect Well - Health Dept.	1	Ea.	\$	\$2,000.00	2
	Clearance			2,000.00		
43	BACT Health Dept. Clearance	10	Ea.	\$	\$1,500.00	20
				150.00		
	\$189,000.00	141				

	Well R6							
ITE M#	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	VALUE	CONTRACT TIME (DAYS)		
3	Specific capacity test before or after rehabilitation	2	Each	\$500.00	\$1,000.00	2		
8	Remove and reinstall fencing to original condition	0	Each	\$500.00	\$0.00			
9	Remove Surficial wellhead, column pipe, and well pump with motor and accessories	1	Each	\$2,500.00	\$2,500.00	2		
10	Reinstall Surficial wellhead, column pipe, and well	1	Each	\$2,500.00	\$2,500.00	2		

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	pump with motor and accessories					
11	Combined Static and Dynamic Down Hold 360 degree color video survey with triplicate DVD's including contraction pump	2	Each	\$2,500.00	\$5,000.00	2
14	Chemical treatment of well with 2,500 gallons of 1,000 ppm chlorine solution and neutralize waste	1	Each	\$1,500.00	\$1,500.00	2
15	Acidize well with 1,000 gallons of 15% HCL acid (pump removed), Neutralize and legally dispose of waste. Must use Time Retard Agent.	1	Each	\$25,000.0 0	\$25,000.00	10
17	Clean casing and screen with casing scraper and brush	1	Each	\$2,500.00	\$2,500.00	7
18	Brushing, swabbing and jetting to develop well	1	Each	\$2,500.00	\$2,500.00	14
19	Drill rig with crew	0	Hour	\$500.00	\$0.00	
20	Two man crew with crane for pipe modifications and small projects	0	Hour	\$400.00	\$0.00	
21	Each additional crew member	0	Hour	\$50.00	\$0.00	
22	Parts supplied by contractor without Contractor's mark up	0	Lump	\$10,000.0 0	\$0.00	
22 A	Contractor's mark up on parts under bid item 22	0	Decimal markup	\$0.15	\$0.00	



23	Well abandonment (does not include cost of grout)	0	Each per well	\$5,000.00	\$0.00	
24	Neat cement grout for well abandonment	0	Cubic Yards	\$500.00	\$0.00	
29	Furnish and install gravel pack for well screen	54	Cubic Feet	\$25.00	\$1,350.00	7
30	Well development by Contractors pump 2,000 to 3,000 gpm	60	Hours	\$250.00	\$15,000.00	14
31	Well development and redevelopment by airlift with 600 to 750 CFM air compressor	40	Hours	\$250.00	\$10,000.00	21
32	Disposal of development water to lake or sewer with up to 500' of lay flat hose.	1	Each	\$2,500.00	\$2,500.00	
33	Disposal of development solids that need to be containerized and properly disposed by Contractor (in excess of 1 yd3)	0	Each	\$2,500.00	\$0.00	
34	Furnish and install new 1" PVC stilling well 60' to 80' deep	0	Each	\$2,500.00	\$0.00	
35	Furnish and install 2 new well S.S motor safety cables and appurtenances 60' to 80' deep	0	Each	\$600.00	\$0.00	
36	On-site Welding	0	Hours	\$125.00	\$0.00	
37	Machine Shop Welding	0	Hours	\$100.00	\$0.00	
38	Disassembly and inspection of pump in shop	0	Each	\$1,500.00	\$0.00	0
39	Pump Maintenance in shop	0	Hours	\$100.00	\$0.00	0



40	Trim impeller in shop	0	Each impelle	\$500.00	\$0.00	0
			ſ			
41	Motor maintenance	0	Hours	\$100.00	\$0.00	0
42	Disinfect well for Health	1	Each	\$2,000.00	\$2,000.00	2
	Department clearance					
43	Bacteriological testing for Health Department	2	Each	\$150.00	\$300.00	20
	clearance					
			TOTALS		\$73,650.00	105

	Profile Test Well							
ITE M #	DESCRIPTION	QUANTIT Y	UNIT	UNIT PRICE	VALUE	CONTRAC T TIME (DAYS)		
3	Specific capacity test before or after rehabilitation	0	Each	\$500.00	\$0.00			
8	Remove and reinstall fencing to original condition	0	Each	\$500.00	\$0.00			
9	Remove Surficial wellhead, column pipe, and well pump with motor and accessories	0	Each	\$2,500.00	\$0.00			
10	Reinstall Surficial wellhead, column pipe, and well pump with motor and accessories	0	Each	\$2,500.00	\$0.00			
11	Combined Static and Dynamic Down Hold 360 degree color video survey with triplicate DVD's including contraction pump	0	Each	\$2,500.00	\$0.00			



14	Chemical treatment of well with 2,500 gallons of 1,000 ppm chlorine solution and neutralize waste	0	Each	\$1,500.00	\$0.00	
15	Acidize well with 1,000 gallons of 15% HCL acid (pump removed), Neutralize and legally dispose of waste. Must use Time Retard Agent.	0	Each	\$25,000.0 0	\$0.00	
17	Clean casing and screen with casing scraper and brush	0	Each	\$2,500.00	\$0.00	
18	Brushing, swabbing and jetting to develop well	0	Each	\$2,500.00	\$0.00	
19	Drill rig with crew	33	Hour	\$500.00	\$16,500.00	4
20	Two man crew with crane for pipe modifications and small projects	0	Hour	\$400.00	\$0.00	
21	Each additional crew member	0	Hour	\$50.00	\$0.00	
22	Parts supplied by contractor without Contractor's mark up	1	Lump	\$650.00	\$650.00	1
22 A	Contractor's mark up on parts under bid item 22	650	Decima I marku p	\$0.15	\$97.50	
23	Well abandonment (does not include cost of grout)	1	Each per well	\$5,000.00	\$5,000.00	
24	Neat cement grout for well abandonment	2	Cubic Yards	\$500.00	\$1,000.00	
29	Furnish and install gravel pack for well screen	70	Cubic Feet	\$25.00	\$1,750.00	
30	Well development by Contractors pump 2,000 to 3,000 gpm	0	Hours	\$250.00	\$0.00	



31	Well development and redevelopment by airlift with 600 to 750 CFM air compressor	0	Hours	\$250.00	\$0.00	
32	Disposal of development water to lake or sewer with up to 500' of lay flat hose.	0	Each	\$2,500.00	\$0.00	
33	Disposal of development solids that need to be containerized and properly disposed by Contractor (in excess of 1 yd3)	0	Each	\$2,500.00	\$0.00	
34	Furnish and install new 1" PVC stilling well 60' to 80' deep	0	Each	\$2,500.00	\$0.00	
35	Furnish and install 2 new well S.S motor safety cables and appurtenances 60' to 80' deep	0	Each	\$600.00	\$0.00	
36	On-site Welding	0	Hours	\$125.00	\$0.00	
37	Machine Shop Welding	0	Hours	\$100.00	\$0.00	
38	Disassembly and inspection of pump in shop	0	Each	\$1,500.00	\$0.00	
39	Pump Maintenance in shop	0	Hours	\$100.00	\$0.00	
40	Trim impeller in shop	0	Each impelle r	\$500.00	\$0.00	
41	Motor maintenance	0	Hours	\$100.00	\$0.00	
42	Disinfect well for Health Department clearance	0	Each	\$2,000.00	\$0.00	
43	Bacteriological testing for Health Department clearance	0	Each	\$150.00	\$0.00	
			TOTALS		\$24,997.50	5

Sincerely,

Mike Black / Vice President Florida Drilling / 561.371.9985

mike@fldrilling.com