# Lee County Board of County Commissioners Agenda Item Summary

Blue Sheet No. 20051547-UTL

# 1. Action Requested/Purpose:

Approve Change Order No. 1 to Contract No. 2978 Three Oaks WWTP Deep Injection Well (RFQ-04-01), with Youngquist Brothers, Inc. for an additional contract amount of \$55,000.00 and 30 additional contract days. The purpose is to provide temporary equipment and facilities to conduct the short-term injection test.

#### 2. What Action Accomplishes:

Provides funding and formal approval for additional unforeseen activities needed to complete construction and conduct the short-term injection test of the deep injection well.

## 3. Management Recommendation:

Approval.

4. Departmental Category: 10 - Utilities				5. Meeting Date: 9-2005			
6. Agenda:		7. Requirement/Purpose (specify)			8. Request Initiated:		
X	Consent		Statute		Commissioner		V \
	Administrative		Ordinance		Department	T	Rublic Works
	Appeals	$\overline{\mathbf{X}}$	Admin. Code	AC-4-4	Division	1/	, Utilities
	Public	X	Other	Approval	By:	M	1/10/05
	Walk-On		-			Rigi	k Diaz, P.É., Director
9. Bac	kground:						

The BOCC approved entering into the Three Oaks WWTP Deep Injection Well construction Contract No. 2978 with Youngquist Brothers, Inc. on December 7, 2004, for a lump-sum amount of \$4,191,800.00 based on 270 days to substantial completion and 300 days to final completion. This contract included a qualifier that Youngquist Brothers would perform short-term injection testing through a permanent wellhead, piping and pumping facility to be constructed by others. This permanent facility is to be constructed as part of the Three Oaks WWTP Expansion, which is still under design by the design-build firm.

Construction of the deep injection well and associated dual zone monitoring well by Youngquist Brothers is complete. However, the permanent wellhead, piping and pumping facility by others is not yet constructed.

(CONT'D.)

10. Review for Scheduling									
Department Director	Contracts	Human Res.	Other	County Attorney		(MW	Services		County Manager / P.W. Director
Slundy S.Lavender Date: 11-10-05	C. Logan Date:	N/A Date:	B. Dearborn Date:	S. Coovert Date:	, , ,	Risk Jr	Grants M	Mgr.	Jacender J. Javender Date: 11-10-05
11. Co	mmission AApproveDeferredDeniedOther	d	. <u>1</u> 1	ECEIVED BY DUNTY ADMIN: 15-05 135 DUNTY ADMIN DRWARDED TO:	At		Date:	SZOW rded To:	
				11.17.01			aan	mn -	

NO:	1

# LEE COUNTY CONSTRUCTION CONTRACT

CHANGE ORDER (A Change Order Requires Approval by the Department Director for Expenditures Under \$25,000 or Approval by the County Manager for Expenditures Between \$25,000 and \$50,000 or Approval by the Board of County Commissioners over \$50,000) CONTRACT/PROJECT NAME: Three Oaks WWTP Deep Injection Well PROJECT NO .: 7280 CONTRACTOR: Youngquist Brothers, Inc. CONTRACT NO .: 2978 BID NO.: RFQ-04-01 ACCOUNT NO .: 207280 48713, 506540 CHANGE REQUESTED BY: Tom Mamott, LCU DATE OF REQUEST: 9/23/05 Upon the completion and execution of this Change Order by both parties to the Contract, the Contractor is authorized to and shall proceed to make the following changes in the Contract Documents: Description: Provide temporary equipment and facilities to conduct short-term injection test of deep injection well as required by the FDEP UIC Permit. Purpose of Change Order: Enable performance of short-term injection test of the deep injection well Attachments: (List documents supporting change) See Attached Scope of Work dated 6/16/05 CHANGE IN CONTRACT PRICE: CHANGE IN CONTRACT TIME: Original Contract Price Original Contract Time \$4,191,800.00 300 Calendar Days Previous Change Orders No. Net Change from previous Change Orders to No. \$0 0 Calendar Days Contract Price prior to this Change Order Contract Time prior to this Change Order \$ 4,191,800.00 300 Calendar Days Net Increase (Decrease) of this Change Order Net Increase (Decrease) of this Change Order \$ 55,000.00 30 Calendar Days Contract Price with all approved Change Orders Contract Time with all approved Change Orders \$ 4,246,800.00 330 Calendar Days It is understood and agreed that the acceptance of this modification by the CONTRACTOR constitutes an accord and satisfaction, and represents payment in full (both time and money) for all costs arising out of, or incidental to, the above mentioned change. RECOMMENDED: ACCEPTED: COUNTY APPROVAL:

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By: A Charles (Culos) Consultant (if applicable) Date	By: Educ Moles, VP Contractor	By: Department Director (Under \$25,000)
Department Director Date	Formation Print Name (Contractor)	Date Approved:
Contracts Management Date APPROVED:	Date Accepted: 10/25/05  Corporate Seal	By: County Manager (Under \$50,000)  Date Approved:
County Attorney's Office Date		By: Chairman (Over \$50,000) Board of County Commissioners
CMO 011		Date Approved:

#### THREE OAKS WWTP - DEEP INJECTION WELL

# SHORT TERM INJECTION TEST

#### SUMMARY OF WORK

#### INJECTION TEST (Refer to specification in Attachment A)

- 1. Provide all necessary pipe and facilities for the following:
- 2. 24-hour injection test at 5,200 gpm
- 3. During test the following shall be recorded continuously:

Injection well wellhead pressure

Injection well annular pressure

Injection well injection zone pressure and temperature

Upper and Lower monitor well pressures

Injectate temperature

Atmospheric pressure at injection wellhead

- 4. The above shall be measured for 48-hours prior to the test, during the test and for 48-hours following the test.
- 5. Water for the test shall be available from the Three Oaks WWTP reuse wastewater system adjacent to the well. For connection point refer to drawings.

Ref. Specification Section Excerpt 02633 (Revised)
Annotated Drawings C-3 and M-9

#### Proposal should include the following:

- Lump Sum price for item 1 above
- Schedule for conducting the work
- Information requirements
- Alternative proposals to specified work

## THREE OAKS WWTP - DEEP INJECTION WELL

#### SHORT TERM INJECTION TEST

Excerpt from Section 02633 (Revised) – Class I Injection Well

- G. **Injection Tests (Injection Well):** After completion of construction of the injection well and dual zone monitor well, an injection test shall be run for a period of 24 hours. The injection rate shall be approximately 5,200 gpm.
  - 1. The CONTRACTOR will be required to provide a flow meter for use in the injection test, as described in Part 3, 3.1 H. Meters. It is also the responsibility of the CONTRACTOR to provide a temporary stripper-head to allow for access and placement of a bottom hole transducer in the well.
  - 2. The CONTRACTOR shall provide the services of a company to supply a bottom hole transducer and data logging system that can measure and record the bottom hole pressure to the resolution of  $\pm$  0.01 psi to record pressures during testing and temperature to  $\pm$  0.01 degrees Celsius. The equipment should provide a hard copy of the data accessible throughout the test, and a disk copy upon completion in ASCII format.
  - 3. A period of 48 hours of pre-test readings shall be collected from all instrumentation, and following the 24 hours of injection testing, 48 hours of recovery. During this recovery period, no activity must occur in the injection well.
  - 4. Readings shall be collected on a schedule to be supplied by the ENGINEER prior to the start of injection testing. At a minimum, the equipment should be capable of recording readings on a schedule of variable intervals from one reading per 10 seconds to one reading per hour.
  - 5. The CONTRACTOR shall provide the services of a company to supply a transducer and data logging system to measure and record the wellhead and annular pressure on the injection well and upper and lower monitor zone pressures to the resolution of ± 0.01 psi during the test. Injectate temperature and atmospheric pressure shall also be measured and recorded at the wellhead of the injection well during the injection test, 48 hours before the test and 48 hours after the test.

#### Part 3, 3.1 Meters

H. Meters: The CONTRACTOR shall supply flowmeters and other meters for use in testing the wells. The flow meter for use in the injection test shall have a scale from 0 to 10,000 gpm with major gradations of 500 gpm and minor gradations of 50 gpm. All flow meters shall be calibrated before use and calibration records shall be submitted to the ENGINEER prior to use, as described in the section SUBMITTALS. Flow meter accuracy shall be 1/4 of 1 percent of full scale.



