



**TASK ORDER No. 10 FOR
ENGINEER-OWNER AGREEMENT**

This Task Order is entered into and authorized by Owner this ____ day of March, 2017, by and between City of Clinton, Oklahoma, (hereinafter called OWNER) and Burns & McDonnell Engineering Company, Inc. (hereinafter called ENGINEER).

The parties agree that the ENGINEER shall perform the following Services in accordance with the terms of the Engineer-Owner Agreement dated June 2, 2014:

1. Scope of Services:

Provide study phase engineering services associated with the Concentrate Disposal Alternative Evaluation for the Proposed Water Treatment Plant (WTP) per Exhibit A attached.

2. Compensation:

The basis of compensation for the above Services shall be Hourly Rate per ENGINEER's Rate Sheet, attached hereto, subject to a Not-to-Exceed cap of \$52,936, without further authorization.

3. Other Terms:

- A. The terms of this Task Order supersede any contrary terms of the Engineer-Owner Agreement.
- B. ENGINEER will proceed with providing the services set forth herein immediately upon Task Order execution.
- C. Completing these services within the timeframe described above and in Exhibit A is contingent upon timely receipt of required information, approvals, reviews, etc.

IN WITNESS WHEREOF, the parties have made and executed this TASK ORDER as of the day and year first above written.

OWNER: City of Clinton, Oklahoma

**ENGINEER: Burns & McDonnell
Engineering Company, Inc.**

By:

By:

Name: David Berrong

Name: Ron Coker, P.E.

Title: Mayor

Title: Senior Vice President

EXHIBIT A
Clinton, Oklahoma
Engineering Services
for the
Concentrate Disposal Alternative Evaluation for the Proposed Water Treatment Plant
(Task Order #10)

Engineer shall provide the following services:

1. Collection System Hydraulic Evaluation:

- 1.1 Review of existing documentation including flow data, collection system characteristics (i.e., pipe diameters, materials, slope, invert elevations, etc.), system map, and conforming to construction contract documents for the 30-inch interceptor line, provided by City Staff.
- 1.2 Perform a Gap Analysis and develop a data collection plan for additional data necessary for evaluation and not provided in City's available documentation. Collection of this data is not included in this Task Order as the gaps are unknown.
 - 1.2.1 Metering or flow measurements shall not be conducted as part of this TO.
- 1.3 Determine expected flows in the interceptor line with additional concentrate volumes, as well as pipe material compatibility with concentrate chemical characteristics.
- 1.4 Evaluate a maximum of three (3) alternatives for conveying concentrate from the proposed Water Treatment Plant to the 30-inch interceptor line as an alternate disposal method in a calculation-based analysis. The proposed bidding drawings and specifications for the Water Treatment Plant, current sewer system infrastructure and elevation data from historic site surveys or Google Earth Pro will be used to develop piping layout, hydraulics and sizing. Additionally, pump station and storage will be sized and locations will be determined, as applicable. It is assumed that the information is available or will be provided by the City and no additional data collection will be necessary to perform the evaluation.
- 1.5 Develop a conceptual design and an order of magnitude opinion of probable cost for the recommended alternatives.
- 1.6 Coordinate with the Oklahoma Department of Environmental Protection (ODEQ)

through one (1) meeting.

1.7 Prepare a Technical Memorandum with conclusions and recommendations on the collection system compatibility and selected alternative feasibility to convey the additional concentrate flows from the proposed Water Treatment Plant to the collection system as an alternative disposal method to deep well injection

1.8 Coordinate with City Staff.

2. Wastewater Treatment Plant Process Evaluation:

2.1 Review existing documentation including historic flow data, historic water quality data, design and construction documents, studies and reports.

2.2 Perform a Gap Analysis and development a data collection plan to collect the additional data necessary for the evaluation and not provided in the City's available documentation.

2.3 Perform a desk-top Excel calculation-based evaluation of influent TDS, TSS, BOD, sulfate, chloride, and bicarbonate loading based on raw water sources, blending scenarios considered for operation at the Water Treatment Plant, and historic influent loading at the Wastewater Treatment Plant.

2.4 Evaluate data and develop a summary of process challenges within the Wastewater Treatment Plant at high concentrations of influent TDS, TSS, BOD, sulfate, chloride, and bicarbonate. Develop a list of potential means to mitigate these process challenges.

2.5 Coordinate with the Oklahoma Department of Environmental Protection (ODEQ) through one (1) meeting.

2.6 Prepare a Technical Memorandum with conclusions and recommendations on the Wastewater Treatment Plant's capacity and process capabilities to treat additional flow from the proposed Water Treatment Plant.

2.7 Coordination with City Staff.

3. Concentrate Disposal Permitting Evaluation:

3.1 Evaluate the existing 208 Plan (Water Quality Management Plan) and develop a list of required modifications for inclusion in a Technical Memorandum.

- 3.2 Evaluate the current OPDES (discharge permit) and develop lists of the modifications and applications necessary for disposal of the concentrate, for inclusion in a Technical Memorandum.
- 3.3 Develop a list of Residuals Management Plan modifications required for the Water Treatment Plant operating permit for inclusion in a Technical Memorandum.
- 3.4 Draft a letter of intent to ODEQ that provides background information on changes to the wastewater treatment plant influent and effluent as a result of disposing of the water treatment plant wastes through the sewer collection system. The letter will request necessary modifications to the 208 Plan and OPDES permit.
- 3.5 Coordinate with the Oklahoma Department of Environmental Protection (ODEQ) through one (1) meeting.
- 3.6 Coordination with City Staff.
- 4. Site visits are not included as part of this contract; however, travel for a maximum of three (3) coordination meetings is included.
- 5. Contract fee breakdown shall be as follows:

Service	Fee (Time & Materials, Not to Exceed)
Collection System Hydraulic Evaluation	\$17,557
Wastewater Treatment Plant Process Evaluation	\$20,223
Concentrate Disposal Permitting Evaluation	\$15,156
TOTAL	\$52,936

OWNER'S RESPONSIBILITIES

The Owner shall furnish, as required by the Services and not at the expense of the Engineer, the following items:

1. Perform field testing and data collection necessary to provide the collection system invert elevations, pipe diameter, pipe length, manholes, overall sewer system map and historical flow data.
2. All maps, drawings, reports, records, audits, annual reports, 208 plan, permits and other data that are available in the files of the Owner for the collection system and Wastewater Treatment Plant, which may be useful in the Services involved under this Agreement.
3. Assistance of the Owner's staff as required in performance of Engineer's services.
4. Laboratory/field testing, water quality analyses and field sampling services.
5. Coordinate with ODEQ (as needed).