



**AGENDA MEMORANDUM**  
for the City Council Meeting of July 31, 2012

**DATE:** July 24, 2012

**TO:** Ronald L. Olson, City Manager

**FROM:** Daniel Biles, P.E., Director of Engineering Services  
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**Approval of Contract for Professional Services:  
Oso Water Reclamation Plant  
Dissolved Oxygen Modeling for Oso Bay  
(Project No. E10196)**

**CAPTION:**

Motion authorizing the City Manager, or designee, to execute a Contract for Professional Services contract with RPS Espey of Austin, Texas in the amount of \$538,680.00 for the Oso Water Reclamation Plant Dissolved Oxygen Modeling for Oso Bay.

**PURPOSE:**

This project will be accomplished in 2 phases. Phase 1 focuses on the collection and compilation of data and a preliminary study of Oso Bay. The goal of Phase 1 to generate a detailed work plan for subsequent investigation and modeling in Phase 2; and to execute field sampling to support the development of the dissolved oxygen model.

Phase 2 focuses on model selection, development and execution of the Oso Bay dissolved oxygen model. Once calibrated, the model will be used to evaluate various permit scenarios on water quality in the Bay. Results from the scenario runs will help determine the impact of plant effluent on bay health and provide valuable site-specific information for finalizing the permit action for the Oso treatment plant.

Model results will be shared with the TCEQ to ascertain baseline permit limit criteria for future Oso Water Reclamation Plant Discharge requirements for dissolved oxygen, BOD (Biochemical Oxygen Demand) and TSS (Total Suspended Solids). This proactive assessment better positions the City understanding with the TCEQ of future permit requirements.

**BACKGROUND AND FINDINGS:**

The Oso Water Reclamation Plant is the largest of six plants owned by the City of Corpus Christi (City). This plant is currently permitted for 16.2 MGD discharge. On average, the plant treats about 11.3 MGD of wastewater.

The plant discharges to a canal leading to the west bank of Oso Bay (Texas Commission on Environmental Quality (TCEQ) stream segment #2485). Oso Bay is designated in the Texas Surface Water Quality Standards for exceptional aquatic life use. To protect seagrass and other aquatic life in Oso Bay, the TCEQ is requiring implementation of ammonia limits of 4 mg/L on the discharge from Oso Water Reclamation Plant by late 2013. Additional, more stringent limits on BOD and TSS may be implemented in future permit renewals.

The goal of this study is to investigate the need of these possible new restrictions in regard to protecting aquatic life in Oso Bay. This study will utilize nutrient and dissolved oxygen data.

RPS Espey of Austin, Texas was selected for this project as a result of Request for Qualification (RFQ) No. 2011-01 Professional Services for Department of Engineering Services Projects, dated January 18, 2011.

**ALTERNATIVES:**

- 1. Award the contract to RPS Espey as proposed.
- 2. Do not award the contract to RPS Espey as proposed.

**EMERGENCY / NON-EMERGENCY:**

Not Applicable.

**DEPARTMENTAL CLEARANCES:**

Wastewater Department

**FINANCIAL IMPACT:**

- Not Applicable
- Operating Expense
- Revenue
- CIP

<b>FISCAL YEAR: 2012-2013</b>	<b>Prior Year (CIP Only)</b>	<b>Current Year</b>	<b>Future Years</b>	<b>TOTALS</b>
Budget	\$1,354,100.00	\$8,635,400.00	\$2,027,000.00	\$12,016,500.00
Encumbered/Expended Amt.	1,354,100.00	6,461,406.35		7,815,506.35
This item		538,680.00		538,680.00
Future Expenditures		43,094.40		43,094.40
BALANCE	0.00	\$1,592,219.25	\$2,027,000.00	\$3,619,219.25
FUNDS: Wastewater CIP				

**Comments:** Approval of the contract is requested so work may begin in a timely manner.

**RECOMMENDATION:**

City staff recommends the Contract for Professional Services be awarded to RPS Espey of Austin, Texas, in the amount of \$538,680.00 for professional services.

**LIST OF SUPPORTING DOCUMENTS:**

Project Budget  
Location Map

**CC:** Veronica Ocañas, Assistant City Attorney  
Constance Sanchez, Director of Financial Services  
Eddie Houlihan, Assistant Director of Management and Budget  
Oscar R. Martinez, Assistant City Manager