



RESOLUTION NO. 2013-037

RESOLUTION AUTHORIZING THE CITY MANAGER TO AMEND A PROFESSIONAL SERVICE CONTRACT FOR LANDFILL ENGINEERING SERVICES WITH WEAVER BOOS CONSULTANTS LLC – SOUTHWEST RELATING TO THE CITY’S TCEQ APPLICATION TO AMEND THE CITY’S MUNICIPAL SOLID WASTE PERMIT FOR OPERATION OF THE CAMELOT LANDFILL; PROVIDING AN EFFECTIVE DATE.

WHEREAS, the City previously executed a professional services contract with Weaver Boos, LLC - Southwest (“the Contract”) to provide engineering and surveying services related to the City’s application to the Texas Commission on Environmental Quality (“TCEQ”) to amend the City’s permit to operate the City’s Camelot Landfill; and

WHEREAS, as the result of litigation filed against the City with respect to operation of the Camelot Landfill and the suggestion by TCEQ staff that the City construct a slurry wall around a portion of the landfill, matters which were not within the original scope of services of the Contract; City Administration has negotiated an amended scope of services for the Contract to provide for such additional services and costs related to same; and

WHEREAS, the City Council finds it to be in the public interest to approve an amendment to the Contract to provide for such additional services and the costs related thereto.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF FARMERS BRANCH, TEXAS THAT:

SECTION 1. The City Manager is authorized to sign on behalf of the City that certain First Amendment to Professional Services Contract substantially in the form attached hereto as Exhibit “A” and incorporated herein by reference to provide for additional services to be provided under the Contract and increasing the maximum contract amount to \$2,174,400.00.

SECTION 2. This resolution shall become effective immediately upon approval.

PASSED AND APPROVED BY THE CITY COUNCIL OF THE CITY OF FARMERS BRANCH, TEXAS, THIS 18TH DAY OF JUNE, 2013.

ATTEST:

APPROVED:

Angela Kelly, City Secretary

William P. Glancy, Mayor

Approved as to form:

Peter G. Smith, City Attorney
(kbl:6/11/13:60990)

**FIRST AMENDMENT TO
PROFESSIONAL SERVICES CONTRACT**

This **FIRST AMENDMENT TO PROFESSIONAL SERVICES CONTRACT** ("Amendment") is entered by and between the **City of Farmers Branch, Texas** ("City") and **Weaver Boos Consultants, LLC – Southwest** ("Consultant") as of the Effective Date.

RECITALS

WHEREAS, on or about April 29, 2009, City entered into that certain *Professional Services Contract* ("the Contract") with Consultant for the purpose of engaging Consultant to provide professional engineering and surveying services relating to City's application to the Texas Commission on Environmental Quality ("TCEQ") for a vertical expansion of City's municipal solid waste landfill ("the Landfill") located in the City of Lewisville, Texas ("Lewisville"); and

WHEREAS, Lewisville has filed suit against City with respect to operations of the Landfill that have and will make necessary additional services from Consultant in support of City's defense against Lewisville's allegations; and

WHEREAS, City has determined additional services from Consultant are needed in relation to an application for an amendment to City's TCEQ municipal solid waste landfill permit ("the Landfill Permit") to construct a slurry wall around a portion of the Landfill; and

WHEREAS, additional services will also be required from Consultant with respect to work to be performed in support of City's the contested hearing proceedings before the TCEQ regarding the City's application to TCEQ seeking an amendment to the Landfill Permit for a vertical expansion of the Landfill; and

WHEREAS, City and Consultant desire to enter into this Amendment for the purpose of amending the Contract to provide for the additional services described above.

NOW THEREFORE, for and in consideration of the promises contained herein and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledge, City and Consultant agree as follows:

1. The Contract is hereby amended as follows:
 - A. Section 3.1 is amended by replacing the amount of "\$1,889,400.00" with the amount of "\$2,174,400.00."
 - B. Exhibit "A" – *Scope of Work* is amended in its entirety as set forth in Attachment 1, attached hereto and incorporated herein by reference.
2. City and Contract agree that except as amended by Section 1, above, the Contract remains in full force and effect without amendment.

3. This Amendment shall be effective when signed by authorized representatives of City and Consultant.

SIGNED AND AGREED this _____ day of _____, 2013.

City:

City of Farmers Branch, Texas

By: _____

Gary D. Greer, City Manager

ATTEST:

Angela Kelly, City Secretary

APPROVED AS TO FORM:

City Attorney

SIGNED AND AGREED this _____ day of _____, 2013.

Consultant:

Weaver Boos Consultants, LLC – Southwest

By: _____

Jeffrey P. Young, P.E., Principal

ATTACHMENT 1
AMENDED SCOPE OF WORK

SCOPE OF WORK
CITY OF FARMERS BRANCH
ENGINEERING SERVICES
CAMELOT LANDFILL EXPANSION

Prepared for

City of Farmers Branch

December 2008

Revised May 2013

Prepared by

Weaver Boos Consultants, LLC–Southwest

TBPE Registration No. F-3727

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Fort Worth, Texas 76109

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APPENDIX A

WBC Schedule of Charges (Updated)

1 SUMMARY

Weaver Boos Consultants, LLC–Southwest (WBC) is pleased to submit this Scope of Work which includes all the technical tasks required for the successful completion of the expansion of the Camelot Landfill. It is our understanding that this project will include both a horizontal and vertical expansion of the existing site. A general site layout is shown on Figure 1.1. Figure 1.1 also highlights the existing permit boundary and the proposed expansion of the permit boundary. In the early stages of this project, WBC will work with the City to develop options for expanding the waste fill footprint into the horizontal expansion areas. The design objectives will include: (1) developing a site design that will meet all applicable regulatory requirements, (2) providing a design that will allow the development and implementation of innovative public relation strategies, and (3) allowing for the site to be developed and operated in a cost-effective manner.

A summary of the key task and budget information is provided on Table 1-1. Supporting information for each task is included in Section 2 and project schedule is presented in Section 3.

Two categories of budget estimates are provided in Table 1-1 to identify a potential range of costs for this complex landfill expansion project. The initial estimate provided for each task is based on minimal contingencies. The completion of this project will involve the approval of many regulatory agencies (e.g., TCEQ, FEMA, USACE, FAA, TxDOT, Texas Parks and Wildlife Department, U.S. Fish and Wildlife Development, and the Texas Historical Commission). In addition, this project will also include obtaining approval of a zoning change from the City of Lewisville. Each of these regulatory agencies (and the City of Lewisville for certain permit applications) will complete a review of the various permit applications that will be submitted to each agency. The level of effort that will be required to respond to each review is difficult to determine prior to the initiation of the project. However, the estimates provided are based on WBC's extensive experience with the successful completion of similar projects. There are several contingencies included with each estimate. However, the contingencies are based on typical unexpected situations that will likely be experienced during the course of this complex project.

The second estimate provided represents an upper range of costs that is based on potential additional services that may be required to complete each task. As discussed with the City, this is not only a very complex project, but several of the tasks may also be impacted by decisions that are political in nature. For example, after obtaining an agreement regarding the site configuration with the City of Lewisville, the WBC team

will also seek approvals for the various other required permits (e.g., floodplain and wetland permits) prior to submitting the landfill expansion application to the TCEQ. During the permitting process, ongoing negotiations may also be occurring with adjacent neighborhood groups. The City of Farmers Branch may decide that it is in the best interest of the project to reach an agreement with an adjacent neighborhood that may change the proposed configuration of the site. Although this action may significantly reduce the hearing cost at the end of the project, the permitting cost may increase if the change in the proposed configuration forces WBC to update the design and proceed with a second City of Lewisville zoning application, as well as revising the other related permit applications. The second estimate provided incorporates these types of contingencies.

Tasks 9 and 10 were added to this Scope of Work as a change order in May 2013.

Table 1-1
Budget and Scope of Work Summary
Camelot Landfill Expansion

Task		Budget Estimate Based on Minimal Contingencies	Upper Range Budget Estimate Based on Potential Additional Services	Scope of Work Summary
1.	Development of Permit Strategy and Conceptual Design	\$152,000	\$200,000	This task will involve the development of various conceptual designs to present to the City of Farmers Branch. Several key technical demonstrations will be completed to verify that each conceptual design will be technically feasible. Once the general concept is developed, the project team will work with the City of Farmers Branch to obtain input from neighbor groups and the City of Lewisville. Conceptual plans for the development of the LFG system will also be prepared.
2.	City of Lewisville SUP (includes Engineering Site Plan and Plat)	\$171,100	\$230,000	This task will include preparation of a final plat and engineering site plan. The final plat and engineering site plan will need to be submitted to the City of Lewisville to change the zoning from Agricultural/Open Space to Specific Use – Landfill. This task also includes the cost to develop an Engineering Site Plan for the LFG Beneficial Reuse Facility.
3.	Floodplain Permits	\$78,100	\$102,000	The expansion of the site will involve the placement of fill within the 100-year floodplain of the Elm Fork of the Trinity River. This task will include the development and submittal of a Trinity River Corridor Development Certificate for the proposed expansion to the City of Lewisville and the USACE. Additionally, a Conditional Letter of Map Revision (CLOMR) will be prepared and submitted to the City of Lewisville Floodplain Administrator and FEMA.
4.	USACE Wetland Permitting/ Archaeology Survey/Endangered Species	\$70,600	\$92,000	This task involves completion of a USACE Section 404 wetland permit, archaeology investigation, and endangered species assessment. It is assumed that the creek located on the 18-acre tract owned by Allied will be relocated.
5.	Landfill Gas Management Plan/ Air Permitting/GCCS Planning	\$51,300	\$75,400	This task will include developing a gas management plan that addresses the requirements listed in Title 30 Texas Administrative Code §330.321. In addition, we will prepare an air permitting strategy for landfill expansion and, if applicable, prepare the standard permit and general operating permit applications. This task will also include GCCS planning and implementation within the LFG-to-energy project.
6.	Major Permit Amendment Application	\$585,500	\$650,000	This task involves the development of the major permit amendment application in accordance with the Title 30 Texas Administrative Code Chapter 330 rules for submittal to the TCEQ.
7.	TCEQ Review Process	\$193,500	\$240,000	This task includes addressing TCEQ comments during the technical review period, participating in the TCEQ sponsored public meeting, handling notice requirements, and assisting TCEQ with the development of the draft permit.
Total without SOAH Hearing Process		\$1,302,100	\$1,589,400	
Task 8 – SOAH Hearing Process:				The estimates provided show typical costs for various services after the application is declared technically complete by the TCEQ and the application is sent to SOAH. The tasks associated with this stage of the project include the participation in settlement negotiations, completion of additional technical demonstrations, pre-file testimony, depositions, and the SOAH hearing.
• No Opposition or Requests for Hearing		\$0	\$0	
• No Hearing due to Successful Settlement Negotiations		\$30,000	\$100,000	
• Minimal Hearing Based on Limited Opposition		\$50,000	\$150,000	
• Major Hearing that Includes Several Sophisticated Opposition Groups		\$120,000	\$300,000	
Subtotal		\$1,422,100	\$1,889,400	

Table 1-1 (Continued)
Budget and Scope of Work Summary
Camelot Landfill Expansion

Task		Budget Estimate Based on Minimal Contingencies	Upper Range Budget Estimate Based on Potential Additional Services	Scope of Work Summary
9.	Slurry Wall Permit Modification	\$35,000		<p>This task includes the preparation of a permit modification to add a slurry wall to the existing Site Development Plan for the Camelot Landfill. The slurry wall will extend around the southern and eastern portion of the facility. Following the City's review of the draft permit modification, a final copy of the modification will be submitted to the Texas Commission on Environmental Quality (TCEQ).</p> <p>This task also includes a budget to respond to TCEQ comments. WBC is well-versed in TCEQ technical requirements and permitting procedures; nevertheless, it is understood that the TCEQ provides comments on most every technical submittal which they review.</p>
10.	Litigation Support	\$250,000		<p>The purpose of this task is to provide technical services associated with various legal activities regarding the expansion of the Camelot Landfill. Tasks may include the completion of additional technical demonstrations, depositions, and other tasks required to support the City's legal counsel on various legal issues. The Scope of Work for each of these tasks will be discussed with the City prior to initiating work on each specific task. The proposed budget estimate is based on similar projects and it is understood that the level of effort and budget required will depend upon the specific scope for each task.</p>
Total		\$1,707,100	\$2,174,400	

2 SCOPE OF SERVICES AND INDIVIDUAL TASK BUDGETS

2.1 Development of Permit Strategy and Conceptual Design

This task will involve the development of various conceptual designs to present to the City of Farmers Branch. Several key technical demonstrations will be completed to verify that each conceptual design will be technically feasible. Once the general concept is developed, the project team will work with the City of Farmers Branch to obtain input from neighbor groups and the City of Lewisville. This task also includes the development of an initial Land Use Study that can be used to facilitate discussions with the City of Lewisville and neighborhood groups. The budget estimate for this task is summarized in Table 2-1.

Table 2-1
Task 1 – Development of Permit Strategy and Conceptual Design

Task		Labor	Direct Expenses	Total Budget
1A.	Permit Strategy Meetings	\$23,000	\$2,000	\$25,000
1B.	Records Search/Gather All Historical Permit Information	\$4,000	\$1,000	\$5,000
1C.	Preliminary Drainage Design/Floodplain Improvement Analysis	\$15,000	\$0	\$15,000
1D.	Verify Geologic Information and Geotechnical Information Meets Current Rules	\$8,000	\$0	\$8,000
1E.	Develop Conceptual Final Contour and Excavation Plans	\$20,000	\$0	\$20,000
1F.	Initial Location Restriction Review	\$4,000	\$0	\$4,000
1G.	Conceptual Separatory Overliner Design	\$7,000	\$0	\$7,000
1H.	Initial Land Use Study and Presentation Drawings	\$38,000	\$0	\$38,000
1I.	Complete Traffic Study and TxDOT Coordination	\$14,500	\$500	\$15,000
1J.	Initial Capacity and Site Life Estimates	\$5,000	\$0	\$5,000
1K.	Initial Meetings with City of Lewisville and Neighborhood Groups	\$9,000	\$1,000	\$10,000
Total				\$152,000

2.2 City of Lewisville SUP (includes Engineering Site Plan and Plat)

This task will include preparation of a final plat and engineering site plan. The final plat and engineering site plan will need to be submitted to the City of Lewisville to change the zoning to allow for the continued development of the expanded landfill. Task 2E includes the preparation of an Engineering Site Plan for the LFG facility. It is assumed that the plat for the LFG facility will be completed by others and the City will also supply WBC with the specific layout drawings for the LFG facility. WBC will use these drawings for the Engineering Site Plan. It is assumed that the City will pay the fees to develop the LFG Engineering Site Plan and Plat. WBC will pay the fees for the landfill expansion SUP and Plat. The budget is summarized in Table 2-2.

Table 2-2
Task 2 – City of Lewisville SUP

Task		Labor	Direct Expenses	Total Budget
2A.	Permit Boundary Survey and Plat			
2A.1	Site Visits	\$3,800	\$200	\$4,000
2A.2	Property Records and Easement Research	\$2,800	\$200	\$4,500
2A.3	Boundary Survey	\$16,500	\$500	\$17,000
2A.4	Plat Preparation	\$19,000	\$3,000	\$22,000
Task 2A Subtotal				\$47,500
2B.	Engineering Site Plan			
2B.1	Develop Engineering Site Plan	\$20,000	\$2,000	\$22,000
2B.2	Tree Survey/Landscape Plan	\$18,000	\$2,000	\$20,000
2B.3	Planning and Zoning Presentation	\$5,000	\$300	\$5,300
2B.4	City Council Presentation	\$5,000	\$300	\$5,300
Task 2B Subtotal				\$52,600
2C.	SUP Meetings/Project Management	\$10,000	\$1,000	\$11,000
2D.	City of Lewisville Landfill Expansion SUP Permit Fees		\$33,000	\$33,000
2E.	LFG Beneficial Reuse Facility Engineering Site Plan	\$25,000	\$2,000	\$27,000
Total 2A, 2B, 2C, 2D, and 2E				\$171,100

2.3 Floodplain Permits

The expansion of the site will likely involve the placement of fill within the 100-year floodplain of the Elm Fork of the Trinity River. This task will include the development and submittal of a Trinity River Corridor Development Certificate for the proposed expansion to the City of Lewisville and the USACE. Additionally, a Conditional Letter of Map Revision (CLOMR) will be prepared and submitted to the City of Lewisville Floodplain Administrator and FEMA. The budget for this task is summarized in Table 2-3.

Table 2-3
Task 3 – Floodplain Permits

Task		Labor	Direct Expenses	Total Budget
3A.	CLOMR Application			
3A.1	Complete Initial Application	\$20,000	\$500	\$20,500
3A.2	Respond to City of Lewisville Comments	\$3,000	\$300	\$3,300
3A.3	Respond to FEMA Comments	\$5,000	\$500	\$5,500
3A.4	Permit Fees		\$5,000	\$5,000
Task 3A Subtotal				\$34,300
3B.	CDC Application			
3B.1	Complete CDC Application	\$25,000	\$500	\$25,500
3B.2	Respond to City of Lewisville Comments	\$2,000	\$300	\$2,300
3B.3	Respond to USACE Comments	\$5,000	\$500	\$5,500
3B.4	Permit Fees		\$4,000	\$4,000
Task 3B Subtotal				\$37,300
3C.	Project Management/Meetings	\$6,000	\$500	\$6,500
Total 3A, 3B, and 3C				\$78,100

2.4 USACE Wetland Permitting/Archaeology Survey/ Endangered Species

This task includes the completion of a USACE Section 404 wetland permit, archaeology investigation, and endangered species assessment. It is assumed that the creek located on the current 18 acres that is owned by Allied will be relocated, which will require a USACE Section 404 permit. We have assumed that no significant archaeological artifacts or endangered species will be found on-site. The budget for this task is summarized in Table 2-4.

Table 2-4
**Task 4 – USACE Wetland Permitting/Archaeology Survey/
Endangered Species**

Task		Labor	Direct Expenses	Total Budget
4A.	USACE Permitting Process			
4A.1	Complete Preliminary Jurisdictional Determination	\$9,000	\$1,000	\$10,000
4A.2	Develop Individual Permit	\$20,000	\$1,000	\$21,000
4A.3	Respond to USACE Comments	\$6,000	\$500	\$6,500
4A.4	Notice Coordination	\$1,000	\$500	\$1,500
Task 4A Subtotal				\$39,000
4B.	Archaeology Survey			
4B.1	Complete Archaeology Survey	\$20,000	\$3,000	\$23,000
4B.2	Texas Historical Commission Coordination	\$2,000	\$500	\$2,500
Task 4B Subtotal				\$25,500
4C.	Endangered Species			
4C.1	Complete Endangered Species Survey	\$2,000	\$500	\$2,500
4C.2	Texas Parks and Wildlife Coordination	\$2,000	\$300	\$2,300
4C.3	U.S. Fish and Wildlife Coordination	\$1,000	\$300	\$1,300
Task 4C Subtotal				\$6,100
Total 4A, 4B, and 4C				\$70,600

2.5 LFG System/Air Permitting

This task will include developing a gas management plan that addresses the requirements listed in Title 30 Texas Administrative Code §330.371. In addition, we will prepare an air permitting strategy for landfill expansion and, if applicable, prepare the standard air permit and general operating permit applications for the landfill expansion. This task will also include GCCS planning and implementation with the LFG-to-energy project.

It has been assumed that with the proposed landfill expansion the site will not require major source or PSD permitting, and that the site will remain eligible for using the standard air permit and general operating permit for landfills.

Table 2-5
Task 5 – LFG System/Air Permitting

Task		Labor	Direct Expenses	Total Budget
5A.	Develop LFG Model Based on Expansion	\$3,800	\$0	\$3,800
5B.	LFG System Master Plan	\$17,800	\$200	\$18,000
5C.	Air Quality Permit Strategy	\$3,300	\$200	\$3,500
5D.	Subchapter U Standard Air Permit	\$7,300	\$200	\$7,500
5E.	General Operating Permit	\$4,300	\$200	\$4,500
5F.	Landfill Gas Management Plan	\$14,000	\$0	\$14,000
			Total	\$51,300

2.6 Major Permit Amendment Application

This task involves the development of a major permit amendment application in accordance with the Title 30 Texas Administrative Code Chapter 330 rules for submittal to the TCEQ. WBC is one of the few consultants in Texas that has submitted a major permit amendment application under the revised TCEQ solid waste regulations that went into effect in March 2006.

The major permit amendment will address geology, hydrogeology, site drainage, and the design of the various landfill components, as well as the development of a Site Development Plan (SDP), which identifies the development of each stage of the landfill. The following summarizes the key components of the major permit amendment

- Parts I and II of the application will be developed to address relevant TCEQ requirements for traffic, land use, and legal matters associated with the landfill development.
- Development of the Geology Report will include identifying subsurface soil conditions as well as hydrogeology of the site. The geology section of this task includes preparation of a soil boring plan with boring depth variance request, a limited subsurface investigation, Woodbine Aquifer groundwater sampling and analyses, 12 months of water level measurements, and preparation of the geology report for permit application. The subsurface investigation is designed to characterize the uppermost aquifer in the expansion areas, demonstrate the poor permeability of the underlying shale, and determine the hydrogeology of the Woodbine Aquifer. The subsurface investigation will include advancing 8 piezometer boreholes.
 - Five boreholes will be advanced to at least 30 feet below the Elevation of Deepest Excavation. Four of these five boreholes will penetrate the top of the Woodbine aquifer.
 - One deep borehole will be completed as a piezometer in the underlying shale for poorly permeable demonstration purposes.
 - Three shallow boreholes will be completed as uppermost aquifer piezometers to determine ground elevations in the expansion areas.
- A Surfacewater Drainage Report will be developed to ensure that the proposed conditions of the site meets the drainage design requirements set forth in Title 30 TAC 330 Regulations. Landfill final cover and perimeter drainage structure designs including swales, drainage letdowns (which include a geomembrane letdown option), perimeter channels, and storm water detention ponds will be developed as part of the drainage report.
- The Excavation Plan will be developed based on the site geologic investigation. The Liner Quality Control Plan will include the design of the dewatering system

and uplift demonstrations for the Woodbine Aquifer as applicable to ensure that the proposed liner system will be stable.

- A Final Closure Plan, which includes a composite final cover system and an alternative final cover system (Evapotranspiration (ET) Final Cover and Exposed Geomembrane Solar Cover), will be developed as part of the SDP. The Closure Plan will also include a Final Cover Quality Control Plan which will govern the construction of the final cover system options. To facilitate the permitting effort, a permit modification will be submitted to the TCEQ prior to the submittal of the major permit amendment to permit an ET final cover system as well as an exposed geomembrane solar cover. The estimate for this task includes the development of the permit modification and TCEQ comment response for the existing site, and revision of the design for the permit amendment application.
- Liner and leachate collection system designs will be developed for the bottom and overliner systems. The design will include an alternative liner system for the overliner and associated point of compliance demonstrations.
- Closure and Postclosure Care Cost Estimates, Groundwater Sampling and Analysis Plan, Landfill Gas Management Plan, Post Closure Care Plan, Site Life Calculations, and a Site Operating Plan will be incorporated in to the major permit amendment.

The budget estimate for this task is summarized in Table 2-6.

Table 2-6
Task 6 – Major Permit Amendment Application

Item	Labor	Direct Expenses	Total Budget
Parts I/II – General Application Requirements			
Parts I/II	\$25,000	\$0	\$25,000
Land Use Study	\$10,000	\$2,000	\$12,000
Facility Layout Maps	\$15,000	\$0	\$15,000
Part III – Site Development Plan			
Site Development Plan Narrative	\$5,000	\$0	\$5,000
IIIA – Site Plans, Cross Sections, and Details	\$12,000	\$0	\$12,000
IIIB – Point of Compliance Demonstration	\$30,000	\$0	\$30,000
IIIC – Leachate and Contaminated Water Management Plan	\$20,000	\$0	\$20,000
IIID – SLQCP	\$17,000	\$0	\$17,000
IIIE – FCSQCP	\$10,000	\$0	\$10,000
IIIF – Surface Water Drainage Report	\$55,000	\$0	\$55,000
IIIG – Geology	\$70,000	\$60,800	\$130,800
IIIH – GWSAP	\$10,000	\$500	\$10,500
IIII – Geotechnical Report	\$30,000	\$5,500	\$35,500
IIIJ – LFG Management Plan	Budget included in Task 5.		
IIIK – Closure Plan (includes ET AFC and EGSC)	\$87,000	\$3,000	\$90,000
IIIL – Postclosure Care Plan	\$10,000	\$0	\$10,000
IIIM – Closure and Postclosure Care Cost Estimates	\$5,500	\$0	\$5,500
IIIN – Site Life Calculations	\$2,500	\$0	\$2,500
Part IV – Site Operating Plan			
Complete SOP	\$4,000	\$0	\$4,000
Project Management			
TCEQ Coordination	\$3,000	\$1,000	\$4,000
Incorporate City and Legal Review Comments	\$25,000	\$2,500	\$27,500
COG Review	\$4,000	\$200	\$4,200
Document Compilation/Production	\$8,000	\$12,000	\$20,000
Project Meetings/Project Management/Quality Review	\$38,000	\$2,000	\$40,000
Total	\$496,000	\$89,500	\$585,500

2.7 TCEQ Review Process

This task includes addressing TCEQ comments during the technical review period, participating in the TCEQ sponsored public meeting, handling notice requirements, and assisting TCEQ with the development of the draft permit. The estimated budget is provided in Table 2-7.

Table 2-7
Task 7 – TCEQ Review Process

Task		Labor	Direct Expenses	Total Budget
7A.	TCEQ Administrative Review/Notice Coordination	\$3,000	\$20,000	\$23,000
7B.	First TCEQ Review Comment Response	\$65,000	\$2,000	\$67,000
7C.	Second TCEQ Review Comment Response	\$40,000	\$1,000	\$41,000
7D.	Public Meeting	\$15,000	\$2,000	\$17,000
7E.	Draft Permit	\$2,500	\$0	\$2,500
7F.	Project Management/Meetings	\$15,000	\$5,000	\$20,000
7G.	Document Production	\$8,000	\$15,000	\$23,000
Total				\$193,500

2.8 Tasks 8, 9, and 10

These tasks are summarized on Table 1-1.

3 PROJECT SCHEDULE AND ESTIMATED ANNUAL BUDGET

Based on our discussions, we have developed a project schedule, which is included on the following page. Various key milestones are noted. A more detailed schedule will be prepared during Task 1.

In addition, Table 3-1 has been developed to provide an estimate of the cost per year for the expected duration of the project. The estimated is based on the cost summary provided on Table 1-1.

Table 3-1
Estimated Annual Cost

Year	Estimated Cost
2008/2009	\$332,000
2009/2010	\$655,600
2010/2011	\$301,000
2011/2012	\$43,500
2012/2013	\$90,000
Total without Contingencies ¹	\$1,422,100
Contingencies (Refer to Table 1-1)	\$467,300
Total with Contingencies	\$1,889,400
Total with the Task 9 and 10 Change Order	\$2,174,400

¹ Includes \$120,000 for the SOAH Hearing Process.

APPENDIX A
SCHEDULE OF CHARGES

WEAVER BOOS CONSULTANTS
FEE SCHEDULE
(Effective January 1, 2012)

I. PROFESSIONAL STAFF		Unit	U.S. \$
a)	Principal/Corporate Consultant	Hr	185.00
b)	Senior Project Director	Hr	173.00
c)	Project Director	Hr	163.00
d)	Senior Project Manager	Hr	142.00
e)	Senior Project Engineer/Scientist	Hr	130.00
f)	Project Manager	Hr	119.00
g)	Project Engineer/Scientist/Environmental Specialist	Hr	103.00
h)	Staff Engineer/Scientist/Environmental Specialist	Hr	93.00
i)	Field Engineer/Scientist/Environmental Specialist	Hr	85.00
j)	Engineer/Scientist/Environmental Specialist	Hr	76.00
II. TECHNICAL STAFF			
a)	Union Engineering Technician-Journeyman	Hr	99.00
b)	Union Engineering Technician	Hr	93.00
c)	Construction Superintendent	Hr	93.00
d)	Construction Manager	Hr	82.00
e)	System Specialist III	Hr	120.00
f)	System Specialist II	Hr	85.00
g)	System Specialist I	Hr	76.00
h)	System Technician	Hr	71.00
i)	Certified Technician	Hr	66.00
j)	Senior Engineering Technician	Hr	60.00
k)	Engineering Technician II	Hr	55.00
l)	Engineering Technician I	Hr	43.00
III. SUPPORT STAFF			
a)	CAD Designer III	Hr	93.00
b)	CAD Designer II	Hr	81.00
c)	CAD Designer I	Hr	60.00
d)	Technical Assistant	Hr	55.00
e)	Clerical/Word Processing	Hr	55.00
IV. SURVEYING			
a)	Senior Professional Land Surveyor	Hr	138.00
b)	Professional Land Surveyor	Hr	117.00
c)	Survey Project Coordinator	Hr	90.00
d)	Survey Party Chief	Hr	90.00
e)	Survey Party - 2 Man/Conventional	Hr	135.00
f)	Survey Party - 3 Man/Conventional	Hr	175.00
g)	Survey Party - 1 Man/GPS or Robotic	Hr	135.00
h)	Survey Party - 2 Man/GPS or Robotic	Hr	175.00
i)	Survey Party - 3 Man/GPS or Robotic	Hr	215.00
V. GENERAL EXPENSES			
a)	Automobile Transportation	Mi.	0.75
b)	Subcontract Service or Rental	Cost+15%	
c)	Report Preparation (outside services)	Cost+15%	
d)	Outside Services (e.g. photographer, film processing, overnight delivery, etc.)	Cost+15%	
e)	Per Diem (food and lodging)	Day	130.00
f)	Per Diem (no lodging)	Day	30.00
g)	Transportation by Commercial Carrier or Rental Car	Cost+15%	
h)	Travel Expenses	Cost+15%	
VI. TESTING AND EQUIPMENT RENTAL FEES			
a)	pH, Specific Conductance and Temperature Meter	Day	80.00
b)	Peristaltic Filter Pump	Day	35.00
c)	Electric Purge Pump	Day	40.00
d)	Grundfos Pump Control Box	Day	100.00
e)	Water Level Indicator	Day	30.00

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**WEAVER BOOS CONSULTANTS
FEE SCHEDULE
(Effective January 1, 2012)**

	<u>Unit</u>	<u>U.S. \$</u>
f) Filter and Hose (for pump)	Ea	20.00
g) Micropurge Flow Cell and Sonde.....	Day	120.00
h) Modified Level "D" (Tyveks, Boots, Gloves)/per person/per chg of clothing	Ea	50.00
i) Photoionization Detector Meter	Day	110.00
j) Nuclear Density Gauge	Day	60.00
k) Air Sampling Equipment, per pump.....	Day	50.00
l) Hand Operated Field Probe Equipment.....	Day	25.00
m) Explosimeter	Day	30.00
n) Gas Analyzer	Day	175.00
o) Flame Ionization Detector	Day	250.00
p) Interface Probe	Day	50.00
q) ATV	Day	50.00
r) Company Truck.....	Day	75.00
s) Hand-Held Field GPS/G15.....	Day	150.00
t) Laser Level.....	Day	75.00
u) Spatial Imaging Laser Scanner.....	Day	500.00
v) Ground Penetrating Radar	Day	2500.00
w) Geonics EM-61	Day	500.00
x) Field GPS Unit	Day	150.00
y) Electric Generator	Day	65.00
z) Slug Test Equipment.....	Day	200.00
aa) All Weather Key Alike Locks	Ea	18.50
bb) Equipment Trailer	Day	75.00
cc) Fluk Meter/Volt Meter/Loop Calibrator.....	Day	120.00

UNIT PRICE NOTES:

1. All professional, technical, and support staff time and expenses spent in furtherance of the client's work will be billed. This includes, but is not limited to, proposal, field, travel, research, technical review and reporting, project management, client meeting, and project-specific administrative time and expenses.
2. An overtime rate of 1.3 times the regular rate is billed for technical and support staff services for work in excess of 40 hours per week, work between 7:00 p.m. to 5:00 a.m., and work on Saturdays. This overtime rate is increased to 2.0 times the regular rate for work on Sundays and holidays.
3. Unless otherwise agreed to in writing, a monthly interest charge of 18% per annum, will be charged accruing from the date of invoice, on all invoices not paid within 30 days.
4. The unit rates are subject to periodic modification (typically annually). These rate modifications will be incorporated into long-term projects, unless otherwise addressed in the project contract.
5. Deposition and testimony services are charged at 1.5 times the regular billing rate.

GENERAL EXPENSE NOTES:

1. Rates quoted are for expenses only, equipment purchased on the client's behalf is marked up 25%.
2. Personnel rates are billed separately from general expenses.
3. Standard non-disposable protective outer-wear or equipment damaged or contaminated by site conditions are billed at replacement cost plus 30%.
4. General expense mark-ups may be negotiated based upon contract size and payment terms.
5. The per diem rates set forth above are the standard rates we typically use for our technical staff on projects. We reserve the right to modify these rates in high cost areas.
6. Mileage rate is based on gasoline price of \$3.50 per gallon. A fuel surcharge may be added if a condition beyond Weaver Boos Consultants control warrants it.

TESTING AND EQUIPMENT RENTAL NOTES:

1. Rates for testing and equipment not listed above are available on request.
2. Testing and equipment rental costs are negotiable for specific projects and for on-site laboratory programs.
3. Laboratory unit prices cover equipment and labor costs to perform standard test procedures and laboratory reports with normal turn-around times. Non-standard testing requirements, supervisory and project management costs, data evaluation costs, and environmental sample disposal costs are not included in the testing unit prices and are billed separately.
4. Equipment rental rates are for equipment costs only. Transportation, calibration and personnel costs are billed separately.
5. Daily and weekly rates cover a maximum of 10 and 50 hours respectively.
6. SAMPLES WILL NOT BE RETAINED beyond classification and testing unless other arrangements are agreed to in writing. Environmental samples remain the property of the client.

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