

October 4, 2010

Mr. Richard Talley  
Regulatory/Environmental Coordinator  
Fort Worth Water Department  
1000 Throckmorton Street  
Fort Worth, Texas 76102

RE: Proposal for Continuance of Environmental and Engineering Management Consulting Services for the Former Riverside Wastewater Treatment Plant Closure

Dear Mr. Talley:

Freese and Nichols, Inc. is pleased to present this proposal for continued environmental and engineering management support for the completion of Phase 2 for the former Riverside Wastewater Treatment Plant Closure Project. Phase 2 includes the cleanup of the PCB contaminated sludge in the digesters and lagoons and the demolition of relic structures for the Trinity River Vision Oxbow Project at Gateway Park. The completion of Phase 2 of this project is necessary to meet State and Federal regulatory requirements. In addition to meeting regulatory requirements, other components of Phase 2 include completing the Ecological Risk Assessment and Affected Property Assessment Report required by the Texas Commission on Environmental Quality (TCEQ), the Risk-Based PCB Disposal Plan required by U.S. Environmental Protection Agency (USEPA), and assisting the City in the certificate of completion documentation for closure of the Voluntary Cleanup Program required by TCEQ. We propose to furnish the following scope of services to complete this effort.

**Task 1 – Management Services for Removal of Sludge from Eight Digesters**

1. Finalize plans and specifications for removal and disposal of sludge from remaining eight digesters at the site.
2. Assist the City with obtaining bids from contractors.
3. Provide on-site representation services to the City during sludge removal and disposal activities. Freese and Nichols representatives will be onsite for a maximum of 120 working days during construction activities related to this task.
4. Collect wipe samples from concrete digester surfaces following removal of sludge and cleaning of digesters. Samples will be analyzed for PCBs. An allowance of \$10,000 for laboratory costs is included in this contract modification to complete this task.
5. Attend up to six meetings with the City to discuss project design requirements and provide project updates.
6. Prepare a response action completion report (RACR) in the format required by Texas Risk Reduction Program (TRRP) and submit to the TCEQ and USEPA for approval.

**Task 2 – Prepare Ecological Risk Assessment and Revised Affected Property Assessment Report**

1. Prepare a Tier 2 Screening Level Ecological Risk Assessment for submittal to TCEQ. FNI will submit a draft version of the report to the City for review prior to finalizing the document.
2. Conduct additional sampling of soil, groundwater, surface water, sediments, or other environmental media in Sectors 1 and 2 necessary to satisfy TCEQ/USEPA requirements. An allowance of \$38,000 labor and \$156,000 for laboratory analysis is included in this proposal to complete this task.
3. Prepare a revised APAR addressing TCEQ comments and incorporating results of additional investigation efforts. FNI will submit a draft version of the report to the City for review prior to finalizing the document.
4. Conduct quarterly groundwater sampling at all monitor wells at the site until December 2010.
5. Prepare one update to Community Relations Plan for overall project.
6. Attend up to six meetings with the City to discuss project design requirements and provide project updates.

**Task 3 – Design and Management Services for Response Action in Sector 1 (Former Plant Area) and Sector 2 (Former Lagoon Area)**

1. Evaluate remedial alternatives for Sector 1 and Sector 2 of the project site. Develop opinions of probable construction costs for feasible alternatives. Coordinate with Trinity River Vision Authority (TRVA) and their stakeholders for issues related to the Trinity River Vision Project Oxbow Project at Gateway Park.
2. Prepare a preliminary design of selected remedial alternative.
3. Conduct a topographic survey of the site to gather data necessary for project design.
4. Conduct a comprehensive asbestos survey of structures located in the former plant area (Sector 1).
5. Prepare a response action plan (RAP) describing the selected remedial alternative in the format required by the Texas Risk Reduction Program (TRRP) and submit to the TCEQ for approval.
6. Prepare a Risk-Based PCB Cleanup Plan in accordance with 40 CFR 761.61(c) for submittal to USEPA for approval.
7. Prepare cleanup plans and specifications for the selected remedial alternatives.
8. Assist the City with obtaining bids from contractors.
9. Prepare a drainage plan and storm water pollution prevention plan for remedial construction activities on the site.
10. Provide on-site representation services to the City during sludge removal and disposal activities. Freese and Nichols representatives will be onsite for a maximum of 120 working days during construction activities related to this task. Cleanup phase services also include third-party oversight for any asbestos abatement activities required.
11. Conduct confirmation sampling required for the site following completion of cleanup activities. An allowance of \$148,000 for laboratory costs is included in this contract to complete this task.

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12. Attend up to six meetings with the City to discuss project design requirements and provide project updates.
13. Prepare a response action completion report (RACR) in the format required by TRRP and submit to the TCEQ for approval.
14. Prepare certificate of completion documentation required by TCEQ including boundary survey and institutional controls.

We anticipate that the work for this project will be completed in June 2013. A budget for each task is also included for your information.

Task	Description	Proposed Fee
Task 1	Construction Management Services for Removal of Sludge from Eight Digesters	\$350,106
Task 2	Prepare Ecological Risk Assessment and Revised Affected Property Assessment Report	\$621,302
Task 3	Task 3 – Design and Construction Management Services for Response Action in Sector 1 (Former Plant Area) and Sector 2 (Former Lagoon Area)	\$1,040,933
<b>Total</b>		<b>\$2,012,340</b>
<b>Total FN Labor</b>		<b>\$1,327,076</b>
<b>Total FN Expenses</b>		<b>\$685,264</b>
<b>Total DBE Expense</b>		<b>\$510,582</b>
<b>Total DBE %</b>		<b>25.37%</b>
<b>DBE Tasks</b>		
<b>Lab - Xenco Environmental Labs</b>		<b>\$315,016</b>
<b>Drilling - Magnacore</b>		<b>\$75,000</b>
<b>Surveying - Brad Gorondonna &amp; Assoc.</b>		<b>\$70,000</b>
<b>Licensed Asbestos Consultant - Benchmark</b>		<b>\$50,566</b>

If you have any questions on the scope or budget, please feel free to contact me at 817-735-7273.

Sincerely,

Freese and Nichols, Inc.



Barbara A. Nickerson  
 Vice President

**FREESE AND NICHOLS' PROPOSED BUDGET  
FORMER RIVERSIDE WWTP CLOSURE PROJECT  
2010-2012**

<b>Task</b>	<b>Description</b>	<b>Proposed Fee</b>
Task 1	Construction Management Services for Removal of Sludge from Eight Digesters	\$350,106
Task 2	Prepare Ecological Risk Assessment and Revised Affected Property Assessment Report	\$621,302
Task 3	Task 3 – Design and Construction Management Services for Response Action in Sector 1 (Former Plant Area) and Sector 2 (Former Lagoon Area)	\$1,040,933
<b>Total</b>		<b>\$2,012,340</b>

**Total FN Labor      \$1,327,076**  
**Total FN Expenses      \$685,264**

**Total DBE Expense      \$510,582**  
**Total DBE %              25.37%**

**DBE Tasks**

**Lab - Xenco Environmental Labs      \$315,016**  
**Drilling - Magnacore                      \$75,000**  
**Surveying - Brad Gorondonna & Assoc.      \$70,000**  
**Licensed Asbestos Consultant - Benchmark      \$50,566**

**FREESE AND NICHOLS, INC. PROPOSED COSTS  
FORMER RIVERSIDE WWTP CLOSURE PROJECT**

**TASK 1 - ENGINEERING SERVICES FOR REMOVAL AND DISPOSAL OF SLUDGE FROM REMAINING DIGESTERS**

Tasks	FN Hourly Rates												Multiplier
	\$69.83	\$49.11	\$35.02	\$30.42	\$47.57	\$58.66	\$38.51	\$44.16	\$36.32	\$35.00	\$19.38		3.4
	BAN	RWC	KMB	BME	DAB	LER	RUR	CPJ	PDK		DMH		
	PM	APM	ESIV	GIS	Eng V	ENG VI	W/WW	CS	CS	CAD	WP		Total Labor Cost
1. Project Management	16												\$3,798.75
2. Completion of Construction Plans & Specifications for Cleanout of Remaining Digesters.	8	24			60	40	80	16		40			\$41,225.82
3. Bid-Phase Services		24			40			24					\$14,080.35
4. Coordination with Contractor		40			40								\$13,148.48
5. On-Site Representation During Digester Cleanout		40	160		40	40	160	40	960				\$185,680.80
6. Digester Concrete Sample Collection			80										\$9,525.44
7. Coordination with USEPA/TCEQ	8	24	40										\$10,669.47
8. Meetings with City (6)	24	24			24								\$13,587.22
9. Preparation of Response Action Completion Report.	8	40	80	16							40		\$22,394.30
<b>Totals</b>	<b>64</b>	<b>216</b>	<b>360</b>	<b>16</b>	<b>204</b>	<b>80</b>	<b>240</b>	<b>80</b>	<b>960</b>	<b>40</b>	<b>40</b>	<b>0</b>	<b>\$314,110.63</b>
<b>Miscellaneous Expense Cost</b>													
	<b>Unit</b>	<b>Unit Cost</b>	<b>No.</b>	<b>Total</b>									
Phone, Fax, FedEx	Lump Sum	\$100.00	1	\$100.00									
PC Computer	Per Hour	\$8.00	1000	\$8,000.00									
Printing	Lump Sum	\$5,000.00	1	\$5,000.00									
Travel	Lump Sum	\$500.000	1	\$500.00									
Per Diem	Per Day	\$30.000	90	\$2,700.00									
Laboratory Costs - Wipe Testing	Lump Sum	\$10,000.000	1	\$10,000.00									
Equipment Costs	Lump Sum	\$5,000.000	1	\$5,000.00									
		<b>Expense Subtotal</b>		<b>\$31,300.00</b>									
				Markup 1.15									
		<b>Total Expenses</b>		<b>\$35,995.00</b>									
												<b>Total Cost \$350,105.63</b>	

**FREESE AND NICHOLS, INC. PROPOSED COSTS  
FORMER RIVERSIDE WWTP CLOSURE PROJECT  
TASK 2 - ADDITIONAL SITE INVESTIGATION ACTIVITIES**

Tasks	FN Hourly Rates						Multiplier
	\$69.83	\$49.11	\$35.02	\$21.65	\$30.42	\$19.38	3.4
	BAN	RWC	KMB	KFG	BME	DMH	
	PM	ESVI	ESIV	ESII	GIS	WP	Total Labor Cost
1. Project Management	16						\$3,798.75
2. Finalize ERA.			240	240	100		\$56,585.52
3. Review & respond to comments on ERA from TCEQ.		40	160	160	40	40	\$44,280.24
4. Prepare work plan to for revised APAR.		16	40	40	40		\$14,515.82
5. Conduct additional sample collection.		40	120	240			\$38,633.52
6. Prepare revised APAR.		40	120	320	80	40	\$55,432.24
7. Review and respond to TCEQ comments on APAR.		40	160	320	40	40	\$56,057.84
8. Coordination with USEPA/TCEQ	16	40	40				\$15,240.43
9. Meetings with City (6)	24	24	24				\$12,563.14
10. Quarterly groundwater monitoring (4 events, 16 wells) sampling + data evaluation for one year.		8	40	200	200		\$41,506.11
<b>Totals</b>	<b>56</b>	<b>248</b>	<b>944</b>	<b>1520</b>	<b>500</b>	<b>120</b>	<b>\$338,613.62</b>

  

Miscellaneous Expense Cost	Unit	Unit Cost	No.	Total
Phone, Fax, FedEx	Lump Sum	\$100.00	1	\$100.00
PC Computer	Per Hour	\$8.00	1000	\$8,000.00
Printing	Lump Sum	\$5,000.00	1	\$5,000.00
Travel	Lump Sum	\$1,000.000	1	\$1,000.00
Laboratory Costs	Lump Sum	\$156,716.00	1	\$156,716.00
Drilling Subcontractor	Lump Sum	\$50,000.00	1	\$50,000.00
Surveyor	Lump Sum	\$15,000.00	1	\$20,000.00
Misc. Field Equipment Costs	Lump Sum	\$5,000.000	1	\$5,000.00

Expense Subtotal **\$245,816.00**  
Markup 1.15  
Total Expenses **\$282,688.40**

**Total Cost \$621,302.02**

**FREESE AND NICHOLS' PROPOSED BUDGET  
TASK 3 - APAR REVISIONS  
ANTICIPATED LABORATORY COSTS**

**SOLIDS**

Chemical of Concern (COC)	EPA Analytical Method	Unit Cost	Sector 1	Sector 2	Sector 3	River	Subtotal
Sample Pickup	--	\$30.00	2	2	2		\$180.00
PCBs	8082	\$94.00	20	500	20		\$50,760.00
Total RCRA Metals	6010 et al	\$105.00	20	500	20		\$56,700.00
VOCs	8260	\$121.00	10	10	10		\$3,630.00
SVOCs	8270	\$251.00	10	10	10		\$7,530.00
Herbicides	8151	\$154.00	10	10	10		\$4,620.00
Pesticides	8081	\$141.00	10	10	10		\$4,230.00
Organophosphorous Pesticides		\$275.00	10	10	10		\$8,250.00
							<b>\$135,900.00</b>

**LIQUID**

Chemical of Concern (COC)	EPA Analytical Method	Unit Cost	15 Monitor Wells + Blanks	6 Additional Wells	Subtotal
Sample Pickup	--	\$30.00	4	0	\$120.00
PCBs	8082	\$94.00	64	40	\$9,776.00
Total RCRA Metals	6010 et al	\$105.00	64	40	\$10,920.00
VOCs	8260	\$121.00	0		\$0.00
SVOCs	8270	\$251.00	0		\$0.00
Herbicides	8151	\$154.00	0		\$0.00
Pesticides	8081	\$141.00	0		\$0.00
Organophosphorous Pesticides		\$275.00	0		\$0.00
					<b>\$20,816.00</b>

**Total Laboratory Cost (w/markup)                      \$156,716.00**

**FREESE AND NICHOLS, INC. PROPOSED COSTS  
FORMER RIVERSIDE WWTP CLOSURE PROJECT  
TASK 3 - RESPONSE ACTION FOR SECTOR 2**

<b>Tasks</b>	<b>FN Hourly Rates</b>											<b>Multiplier</b>
	<b>\$69.83</b>	<b>\$49.11</b>	<b>\$35.02</b>	<b>\$21.65</b>	<b>\$30.42</b>	<b>\$47.57</b>	<b>\$44.16</b>	<b>\$36.32</b>	<b>\$35.00</b>	<b>\$19.38</b>		<b>3.4</b>
	<b>BAN</b>	<b>RWC</b>	<b>KMG</b>	<b>KFG</b>	<b>BME</b>	<b>DAB</b>	<b>CPJ</b>	<b>PDK</b>		<b>DMH</b>		
	<b>GM</b>	<b>ESVI</b>	<b>ESIII</b>	<b>ESII</b>	<b>GIS</b>	<b>ENGV</b>	<b>CS</b>	<b>CS</b>	<b>CAD</b>	<b>WP</b>		<b>Total Labor Cost</b>
1. Project Management	48											\$11,396.26
2. Remedial Alternative Evaluation	40	200	100			200		16				\$89,121.89
3. Preliminary Design/Preparation of Response Action Plan	8	80	160		16	100			40	8		\$57,423.96
4. Preparation of USEPA Risk-Based Disposal Plan	8	40	80		16	40			40	8		\$31,515.28
4. Preparation of Construction Plans & Specifications	16	40				400		16	400	60		\$128,702.24
5. Bid-Phase Services		40				40	40	60				\$26,563.52
6. Preparation of Drainage Plan & SWP3	2	4	40			80			40			\$23,604.50
7. Coordination with Contractor	4	16				24	40	40				\$18,448.26
8. Construction Representation for 6 months.	16	40	160			100	40	960				\$170,256.63
9. Confirmation Sampling		40	120	120								\$29,800.32
10. Meetings with City (6)	24	24	24			24		24				\$19,408.56
11. Quality Control/Quality Assurance Reviews	16	16				24						\$10,352.05
12. Preparation of Response Action Completion Report	16	40	80	160	16				40	8		\$38,722.74
13. Prepare certificate of completion documentation.	4	16	80	80								\$19,035.51
<b>Totals</b>	<b>202</b>	<b>596</b>	<b>844</b>	<b>360</b>	<b>48</b>	<b>1032</b>	<b>120</b>	<b>1116</b>	<b>560</b>	<b>84</b>	<b>0</b>	<b>\$674,351.72</b>

  

<b>Miscellaneous Expense Cost</b>	<b>Unit</b>	<b>Unit Cost</b>	<b>No.</b>	<b>Total</b>
Phone, Fax, FedEx	Lump Sum	\$300.00	1	\$300.00
PC Computer	Per Hour	\$8.00	1000	\$8,000.00
Printing	Lump Sum	\$5,000.00	1	\$5,000.00
Travel	Lump Sum	\$1,000.000	1	\$1,000.00
Per Diem	Per Day	\$30.000	20	\$600.00
Pastor, Behling, & Wheeler (EECA, CRP)	Lump Sum	\$25,000.000	1	\$25,000.00
Surveyor	Lump Sum	\$20,000.00	1	\$50,000.00
Licensed Asbestos Consultant	Lump Sum	\$50,000.00	1	\$50,566.15
Environmental Drilling	Lump Sum	\$25,000.00	1	\$25,000.00
Laboratory Costs	Lump Sum	\$148,300.00	1	\$148,300.00
Equipment Costs	Lump Sum	\$5,000.000	1	\$5,000.00
<b>Expense Subtotal</b>				<b>\$318,766.15</b>
Markup				1.15
<b>Total Expenses</b>				<b>\$366,581.07</b>

  

**Total Cost \$1,040,932.79**

**FREESE AND NICHOLS' PROPOSED BUDGET  
TASK 5 - SECTOR 2 RAP  
ANTICIPATED LABORATORY COSTS**

**SOLIDS**

<b>Chemical of Concern (COC)</b>	<b>EPA Analytical Method</b>	<b>Unit Cost</b>	<b>Sector 2</b>	<b>Subtotal</b>
Sample Pickup	--	\$30.00	60	\$1,800.00
PCBs	8082	\$94.00	1000	\$94,000.00
Total RCRA Metals	6010 et al	\$105.00	500	\$52,500.00
				<b>\$148,300.00</b>

**Total Laboratory Cost (w/markup)                      \$148,300.00**