

ATTACHMENT "A"

LEGISLATIVE ID

#110688B

RECEIVED JAN 20 2012



Environmental Consulting & Technology, Inc.

**DEPOT PARK
FINAL DESIGN SERVICES
(AMENDMENT 19)**

For



I. PROJECT DESCRIPTION

Environmental Consulting & Technology, Inc. (ECT) shall provide engineering and permitting services to finalize the Depot Park Phase II stormwater system. This work order also outlines services required to facilitate and coordinate the proposed arsenic and PAH contamination on the Depot Park site.

II. SCOPE OF SERVICES

ECT will provide the following services.

Task 1: Final Plans – Modification to existing task

ECT shall incorporate the following design items into the Depot Park Phase II final plans

1. Coping/seat wall – ECT will design a coping/seat wall along the length of the proposed retaining wall. Conceptual designs will be submitted to the City for review. Final design will be completed by a structural engineer.
2. Sediment forebay – ECT will locate/evaluate the sediment forebay and submit the proposed layout to the city for approval. This will include a hydraulic analysis of the proposed forebay to ensure non-erosive velocity and that the peak stage of the pond does not increase. Final design will be completed by a structural engineer.
3. Second Generation Suntree Baffle Box – ECT will size, locate and incorporate a baffle box into the final plans at the eastern inflow to the phase II pond.

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4. Aeration System – ECT will design an aeration system for the Phase I and II ponds.
5. Recirculation and rain water harvesting systems – ECT will evaluate the efficacy of a recirculation system between the Phase I and II ponds and a rainwater harvesting system. ECT will incorporate the designs into the final plans and specifications.
6. Maintenance Plan – ECT will complete a maintenance plan summarizing the method and frequency for maintaining each of the parks stormwater components.
7. Develop an aquatic vegetation removal plan for the phase I pond. The plan will evaluate physical removal and chemical treatment. The plan will be incorporated into the Depot Park bid package.
8. Multi-use trail – ECT will redesign the multi-use trail to be pervious asphalt.

Deliverables: Recirculation and Rain Water Harvesting Letter Report
100% Construction Drawings
100% Specification
Final Construction Drawings and Specification

Task 2: Pump Station Design - No modification to Amendment 18

Task 3: Post Design Services – No modification to Amendment 18

Task 4: Credit Bank Permitting – New Task

ECT will coordinate and prepare a permit modification of the Phase I Pond Permit. This modification will include revising the basin credit model to reflect the total contributing basin area, updating the bank spreadsheet to include the current project the City would like to include in the bank, and coordinating with the City and other consultants to obtain the necessary information for the submittal. This task also includes permitting of the Phase II pond credit bank model. This modification will overwrite the Phase I credit bank model and create one bank for the entire Depot Park stormwater system. A long term simulation model will be developed to determine the percentage of storms captured by the proposed pump station. This will provide additional credit in the bank as compared to the convention spreadsheet model approach. ECT will prepare a letter modification package to SJRWMD and will respond to all requests for additional information.

Deliverables: Phase I SJRWMD Permit Modification Package
Phase II SJRWMD Permit Modification Package

Task 5: Remediation Coordination - New Task

Construction Plans – ECT shall prepare construction drawings for the placement of fill on the northern portion of the site. The plans will be developed so that the

material will be spread/placed in a manner that will allow for two feet of clean material to be placed on top of the spread material and still meet the desired future park elevations.

ECT will coordinate with the remediation contractor during remediation and review as-built surveys. The as-built will be incorporated into the Depot Park stormwater plans as existing conditions for the Depot Park Stormwater Contractor

Wetland Mitigation Plans – ECT will prepare wetland/upland planting plans for the additional areas impacted due to the arsenic/PAH remediation. These plans and revised UMAM calculations will be submitted to FDEP as a permit letter modification

Deliverables: Remediation Grading Plans
Revised UMAM and Wetland Mitigation Management Plan
ERP Letter Modification

Task 6: Arsenic Assessment, Feasibility Study, and Remedial Action Plan – New Task

As previously documented by MACTEC and ECT, the soil in portions of the Depot Park site is contaminated with arsenic and polycyclic aromatic hydrocarbons (PAHs) that are believed to be present due to past railroad activity rather than due to contamination migrating from the former manufactured gas plant (MGP). This task includes the cost to conduct additional arsenic assessment along the western rail corridor to determine the extent of non-MGP related contamination in that area, prepare a feasibility study to evaluate remedial options for the non-MGP related contamination throughout the park property, and to prepare a remedial action plan to address the non-MGP soil contamination throughout the park.

The soil assessment in the western rail corridor will consist of a total of 18 soil borings in the area west of the Phase I ponds (including 6 in the wetland), with samples collected at 6 and 18 inches for arsenic analysis. Four samples will also be collected for synthetic precipitation leaching potential (SPLP) analysis to determine the soil concentration at which leaching into the groundwater will result in

an exceedance of the groundwater standard. The results of the assessment will be presented in a supplemental assessment report.

The feasibility study will evaluate the remedial options, including cost estimates, to address the non-MGP soil contamination. This soil contamination is a direct exposure threat to park visitors. Therefore, in order to prevent contact with the contaminated soil, the impacted areas must be capped with an impervious surface, or the top 2 feet of contaminated soil removed and replaced with clean soil. Once the non-MGP contamination assessment is complete, ECT will prepare a remedial action plan (RAP) to address the non-MGP soil contamination. The RAP will include all the required information to obtain FDEP approval to begin the remediation. In addition, this work includes all labor and ODC's required to modify the RAP (aka RAP Mod) as necessary to perform the arsenic and PAH source removal and subsequent capping with clean fill on the site.

This task also includes costs for ECT to meet with FDEP and respond to their questions and comments on the RAP. Labor is also included for ECT to meet with Public Works to coordinate additional assessment activities being conducted by Water and Air Research inside Depot Park.

III. COMPENSATION

Compensation will be provided on a lump basis for a total fee of \$93,001.66. See enclosed cost breakdown. A credit of \$6,148 has been applied to amendment 19 to compensate for an overage paid to amendment 18.

IV. SCHEDULE

See enclosed Schedule.

PROJECT BUDGET BY:	Environmental Consulting & Technology, Inc.										Revised:	12/02/2012
PROJECT NAME:	DEPOT PARK FINAL DESIGN SERVICES - Amendment 19											
Title/Job Description	Principal Engineer Hours	Project Manager Hours	Senior Engineer Hours	Assoc. Engineer I Hours	AutocAD Specialist	Senior Technician	Secretary Hours	Structural Engineer permit fee	Sampling Kit & Vehicle (Daily Rate)	Line Item Hours	Line Item Days (6 Hour/Day)	Task Total
Personal Hourly Rate	\$158.00	\$128.00	\$132.00	\$92.00	\$65.00	\$72.00	\$49.00		\$88.00			
Name of Key Individuals	X								\$294.00			
Larry Danek												
Chris Egerstrom		X										
Kevin O'Brien			X									
Anthony Coppolino				X								
Jeff Smith							X					
Donald Thomas/David Flake						X						
TASK DESCRIPTIONS												
Task 1 - Final Plans												
Coping/Side walk		8.0			4.0			1650.0		10.0	1.3	
Streetment Forebay		24.0			8.0			8500.0		32.0	4.0	
Belt Box		12.0			4.0					16.0	2.0	
Arrestion Design		8.0			4.0					12.0	1.5	
Rectic and Rain Water Harvesting Analysis		30.0		15.0						45.0	5.6	
Rectic and Rain Water Harvesting Design		15.0			20.0					35.0	4.4	
Aquatic Vegetation Removal Plan				20.0						20.0	2.5	
Mult-Use Trail		2.0			2.0					4.0	0.5	
Hours		97.0		35.0	42.0							174.0
Days (8 Hour/Day)		12.1		4.4	5.3							21.8
Costs		\$12,513		\$3,220	\$2,730			\$10,450				\$28,913.00
Task 2 - Pump Station Design												
No Modification to Amendment 18												
Task 3 - Post Design Services												
No Modification to Amendment 18												
Task 4 - Credit Bank Permitting												
Phase I Coordination with City and S.R.W.M.D (includes 3 meetings)		16.0			4.0					20.0	2.5	
Phase I S.R.W.M.D Permit Modification Package		40.0						160.0		40.0	5.0	
Phase II S.R.W.M.D Permit Modification Package		2.0			8.0			160.0		42.0	5.3	
Hours		20.0		104.0	12.0							118.0
Days (8 Hour/Day)		0.3		13.0	1.5							14.8
Costs		\$316		\$12,900	\$720			\$320				\$14,832.00
Task 5 - Remediation Coordination												
Grading Plan		32.0			24.0					56.0	7.0	
Coordination and Meetings		80.0								60.0	7.5	
Wellfield Migration Plans		2.0			24.0					66.0	8.3	
Hours		20.0		100.0	56.0							182.0
Days (8 Hour/Day)		0.3		12.5	7.0							22.8
Costs		\$316		\$12,900	\$3,640							\$19,064.00
Task 6 - Arsenic Assessment and RAP												
Western Center Soil Assessment		3.0		19.0	4.0	20.0	2.0			39.0	4.9	
Feasibility Study		9.0		25.0	4.0	2.0	2.0			40.0	5.0	
RAP		4.0		24.0	6.0	2.0	2.0			19.0	2.4	
Meeting and Response to Comments		2.0		15.0	2.0	2.0	2.0					
RAP Mod and Report				124.0	17.0		33.5					
Hours		18.0		193.0	0.0	31.0	41.5					308.5
Days (8 Hour/Day)		2.3		24.8	0.0	3.9	5.2					38.6
Costs		\$2,844		\$26,136	\$0	\$2,015	\$2,034		\$1,226	\$352	\$294	\$36,340.66
Total Hours		22.0		199.0	99.0	141.0	20.0					782.5
Total Days (8 Hour/Day)		2.8		24.8	7.4	17.6	2.5					37.8
Total Costs		\$3,476		\$38,829	\$5,428	\$9,165	\$1,440	\$10,450	\$320	\$352	\$294	\$98,149.66
												Amendment 18 Correction \$ (6,148.00)
												Amendment 19 Total: \$93,001.66