

Project History Form

Date	November 11, 2002	Project Manager	
Project Title	Water Treatment Plant Storage Capacity Expansion		
PH Classification	Water Supply	Graphics available?	Color photographs of current WTP
Client Name	Border Environment Cooperation Commission (BECC)		
Sadat Fees	US\$ 10,000.00		
Project Cost	Estimated project cost: \$1,100,000		
Project Location	City of San Juan, Texas		
Completion Date (state estimated or actual)	Spring 2004	SII Role (Prime, sub, jv)	Technical assistance in the preparation of Rapid Assessment Process (RAP) reports.
Services Provided (brief list)	<ul style="list-style-type: none"> • Review and presentation of existing conditions providing a snapshot of the general technical, economic and financial aspects of the current conditions that affect the proposed project. • The information included, but was not limited to the following areas of the proposed project: general aspects, environmental and human health indicators, baseline conditions for service indicators, technical aspects, financial and commercial service aspects, sustainable development-minimum criteria, identification of technical assistance needs, schedule of tasks from planning through certification and design, and attachments (minutes of the meeting with project's sponsor, photographic report, regional plan with the location of the project components, existing reports and studies, and baseline conditions). 		
Project Narrative What events led to the project? Why were we hired? What was the site condition when we arrived? Etc.)	<ul style="list-style-type: none"> • The B.E.C.C. is a bi-lateral organization, which was created in 1993 under the North American Free Trade Agreement between the USA and Mexico, and its role is to identify, support and certify environmental infrastructure projects along the border area before they are considered for financing by the North American Development Bank (N.A.D.B.) or other funding agencies. <p>Back in December of 2001, and as the result of a highly competitive process which involved the review of approximately 70 proposals from US environmental firms, the Border Environment Cooperation Commission (B.E.C.C.) selected SADAT INTERNATIONAL, INC. (SII) as one of their SENIOR EXPERTS, along with two other American companies, to assist them with project development and assessment.</p> <p>The primary goal of the BECC is to help preserve, protect, and enhance the environment of the border region in order to advance the well being of the people of the United States and Mexico.</p> <p>The City of San Juan has two water treatment plants (WTP) of a total capacity of 5.0 million gallons per day (MGD). They service a population of 26,229 (2000 U.S. Census). Water Plant II (WTP-II) is the City's largest and primary water treatment plant, with a treatment capacity of 3.5 MGD, and a clear-well storage capacity of 439,000 gallons. It has (4) filters that are backwashed daily, consuming approximately 50,000 gallons of treated water per filter, per day, for a total of 200,000 gallons of treated water per day. The backwash water is routed through an adjacent settling pond and recycled back into the water treatment plant. However, with this large amount of water that is taken daily from the clear-well to backwash the filters (approximately half of the City's primary storage), the City could possible run out of potable water in a couple of hours, should a pump failure or other mechanical failures occur before the existing clear-well is refilled.</p>		

	<p>The expansion of the water treatment plant storage capacity is necessary because the existing water storage capacity at the plant is not sufficient. The City has experienced shortfalls during Summer months where the clear-well levels have dropped by as much as three feet, forcing the operator to turn off the high service pumps so that the clear-well can refill to sufficient levels of operation. With such operational problems, increasing summer droughts, and increasing development within the region, the City may not sustain a safe and adequate water supply for its residents if an emergency were to occur.</p>
<p>Approach</p> <p>What did SII do to solve the client's problem? What methods or techniques were used? How large was the facility/site? How much money did we save the client? What new technologies did we use? What contaminants were identified? How many tons of material were disposed of?</p>	<p>Through the Rapid Assessment Process (RAP), SII was able to complete a RAP Report for the proposed project and related tasks. SII evaluated all submitted information for the preparation of the RAP Report. The RAP Report will enable the BECC to properly evaluate the proposed project and it will assist the City in pursuing funding assistance from potential funding sources, such as the North American Development Bank, Texas Water Development Board, United States Department of Agriculture, etc. The Report will further provide information necessary for Project Certification granted by the BECC and will assist coordinating efforts of the different participants.</p>