



City of Corpus Christi Variable Salinity Desalination Project



Council Presentation
April 22, 2014



Variable Salinity Desalination Project



➤ Project Goals and Objectives

- Feasibility and cost estimate for desalination in region
- Testing of emerging technologies
- Determine basis for design of full scale facility
- Be prepared to start full scale facility



Variable Salinity Desalination Project



Overview

➤ Original Contract - COMPLETE

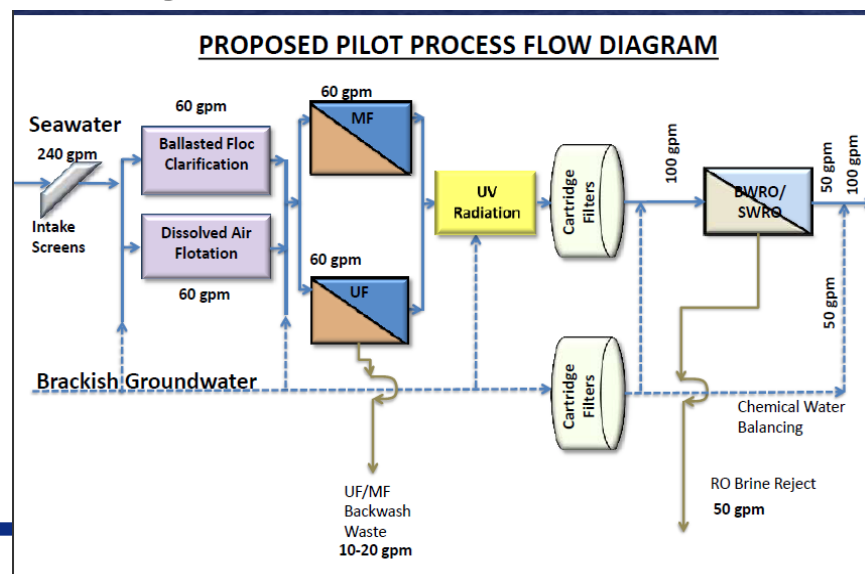
- USBR Grant Application - \$400,000 Awarded

➤ Amendment No. 1 (This Item)

- Variable Salinity Desalination (VSD) Perspective and Research
- Groundwater assessment
- Demonstration Plant Site Selection

➤ Future Works (Partial USBR Grant Funding)

- VSD Protocol Development
- Demonstration Plant Operation
- Technology Testing and Data Collection
- CCEDC Memorandum of Understanding





Variable Salinity Desalination Project

Program Budget



FUNDING REQUIREMENTS		
Water Operating.....		\$ 101,932
Raw Water Supply Development Fund FY 2014.....		\$ 1,080,735
*Raw Water Supply Development Fund FY 2015.....		\$ 1,372,700
Bureau of Reclamation Grant.....		\$ 400,000
TOTAL FUNDING REQUIREMENTS.....		\$ 2,955,367
PROJECT REQUIREMENTS		
Original Contract: Pilot Study Grant Application		
**Engineer (Freese and Nichols, Inc.).....		\$ 49,348
***Engineer (INTERA, Inc.).....		\$ 49,500
Reimbursements		\$ 3,084
TOTAL.....		\$ 101,932
Amendment No.1: Plant Siting and Variable Salinity Testing Protocol		
Amendment No. 1 (Freese and Nichols, Inc.)		\$ 966,699
TM-1 Desalination Technology Research.....	180,250	
TM-2 Plant Siting Analysis.....	224,709	
TM-3 Plant Technical Criteria (Program Development).....	194,073	
TM-4 Study Protocol (TCEQ Permit Criteria).....	120,292	
Communications & Outreach and Funding Applications.....	157,375	
Groundwater (Site Specific Evaluation).....	90,000	
Reimbursements		\$ 65,386
TOTAL.....		\$ 1,032,085
Future Work: Variable Salinity Data Collection and Technology Testing (Estimate)		\$ 1,772,700
TOTAL PROJECT EXPENDITURES.....		\$ 2,906,717
PROJECT BUDGET BALANCE.....		\$ 48,650
*Future funding in the amount of \$1,372,700 will be required for future works of this project. This funding may be secured by a future request through the Raw Water Supply Development Fund and/or by a future grant.		
If the City receives a grant, less money will be needed.		
**Contract administratively approved on 6/25/13		
***Contract administratively approved on 6/26/13		
This assumes the Demonstration Project is constructed on City owned Land.		