



To: Anisa Divine

From: Matt Zidar (GEI)

Prepared: Aaron McWilliams (GEI)

Reviewed: Lorena Ospina (GEI)

Date: January 18, 2011

Re: Disadvantaged Community Needs Assessment

Technical Memorandum (Working Group Draft)

Introduction

The Imperial Integrated Regional Water Management Plan (IRWMP) will identify and integrate projects, programs, and policies for demand, water supply, water quality, and flood management for the Imperial Region (Region). The Imperial Region Water Forum (Water Forum) is participating in development of the IRWMP. A Program Management Team (PMT) is coordinating the overall effort. The PMT includes the two water management agencies that convened the Water Forum; Imperial Irrigation District (IID), Imperial County, and the City of Imperial. The Region covers approximately 3,100 square-miles with a population of over 165,000. A key component of the IRWMP is community outreach. This includes outreach to non-signatory stakeholders, interested parties, and disadvantaged communities (DAC's). Initial outreach efforts began in the early stages of the process with introductory letters to representatives of each community describing the IRWMP purpose, and invitations to participate in the decision-making process. The goals of the outreach program, especially as they relate to DAC's, are to:

- Identify and address the water-related needs of communities in the Region;
- Build relationships within and between community representatives;
- Encourage local participation in regional planning efforts, and;
- Develop regional projects and programs that benefit the communities and the Region.

The objectives of the DAC outreach program are as follows:

- Identify DAC contacts;
- Work with DAC's representatives to inventory and identify water supply, water quality and stormwater related needs;
- Given the current resources of the Imperial IRWM Plan, work with DAC's to develop project concepts to meet the needs and be included in the IRWMP; and
- Support DAC's to identify sources of funding that meet managerial, engineering and financial needs; and develop final project designs that support applications for funding.

DAC's Within the Imperial IRWM Plan Region

As defined by the California Public Resources Code (PRC) Section 75005(g)

Disadvantaged community (DAC) means a community with a median household income (MHI) less than 80% of the statewide average (SMHI). Severely disadvantaged community (SDAC) means a community with a median household income less than 60% of the statewide average.

An evaluation based on 2000 Census data was completed to determine the DAC's within the Region. According to the 2000 Census data, the California SMHI was \$47,493. Thus, county subdivisions (CCD's), census designated places (CDP's), and cities with an MHI of \$37,994 or less were considered DAC's. Those CCD's, CDP's, and cities with an MHI of \$28,496 or less were considered SDAC's. The following table, Table 1, lists all 2000 Census CCD's, CDP's, and cities in the Region, the corresponding MHI, a percent comparison to the SMHI, and notes on the area. Of the 19 locations on the table, 16 meet the definition of a DAC. Of those 16 DACs, 7 meet the definition of a SDAC. The City of Imperial, the area surrounding the City of Imperial, and the area surrounding the City of Holtville do not meet the definition of a DAC.

	TABLE 1				
Census Tract (2000 Census)	N	/IHI in 1999	MHI as % of CA	Status	Remarks
California	California \$ 47,493				
County Subdivisions (CCD)					
Brawley CCD	\$	31,506	66%	DAC	Area surrounding Brawley
Calexico CCD	\$	28,915	61%	DAC	Area surrounding Calexico
Calipatria-Westmorland CCD	\$	26,160	55%	SDAC	Area surrounding Calipatria, Westmorland, and Niland
East Imperial CCD	\$	20,982	44%	SDAC	Area surrounding Bombay Beach, Palo Verde, Fort Yuma; East portion of Imperial County
El Centro CCD	\$	35,851	75%	DAC	Area surrounding Heber and El Centro;
Holtville CCD	\$	40,247	85%		Area surrounding Holtville
Imperial CCD	\$	47,464	100%		Area surrounding Imperial
West Imperial CCD	\$	19,865	42%	SDAC	Area surrounding Ocotillo, Salton City; West portion of Imperial County
Census Designated Places (CDP)					
Heber CDP	\$	27,221	57%	SDAC	Community of Heber
Niland CDP	\$	25,592	54%	SDAC	Community of Niland
Ocotillo CDP	\$	23,438	49%	SDAC	Community of Ocotillo
Seeley CDP	\$	31,058	65%	DAC	Community of Seeley
Cities					
Brawley	\$	31,277	66%	DAC	
Calexico	\$	28,929	61%	DAC	
Calipatria	\$	30,962	65%	DAC	
El Centro	\$	33,161	70%	DAC	
Holtville	\$	36,318	76%	DAC	
Imperial	\$	49,451	104%		
Westmorland	\$	23,365	49%	SDAC	

Data from 2000 census. Downloaded from:

http://factfinder.census.gov/

Maps available at:

http://www2.census.gov/plmap/pl_trt/st06_California/c06025_Imperial/

Description/Summary of Outreach Activities

The DAC's were engaged during the early stages of the Imperial IRWMP planning process. To begin identifying disadvantaged communities, a contact list was developed for all cities, communities, and special districts located within the Region which provide domestic water service, wastewater collection service, and/or stormwater collection service (collectively - water systems). The Capital Improvement Plans, Master Plans, General Plans, and Service Area Plans of each community were sought and reviewed where available, to determine the current state of their infrastructure and of planning efforts. System information was compiled into an Infrastructure Matrix which was mailed in advance to the interview participants. The information included in the Infrastructure Matrix consisted of the following:

Stormwater

- o Land use policy, design criteria,
- o Flooding/system deficiencies, capital improvement plans.

Wastewater

- o Current and future plant size/treatment capacity, average flows, and level of treatment
- Capital improvements planned for collection system and/or WWTP, including plans for water recycling,
- o Compliance requirements.

Potable Water

- Current and future plant size/treatment capacity, average demand, raw and clear water storage capacity,
- O Distribution system status/deficiencies, capital improvement plans and schedule for implementation,
- o Disaster/emergency/shortage preparedness.

A letter was sent to each of the community representatives which included an explanation of the goals and objectives of the Imperial IRWMP and intent of the Water Forum to address the needs and interests of the DAC's within the Region. In addition to the letter, an email with the agency-specific Infrastructure Matrix was sent to the engineering, planning, and/or public works contact for each community. The email explained the source of the data in the Infrastructure Matrix, and requested that the information within the Matrix be corroborated or updated to reflect the current condition. A telephone interview was scheduled with each public agency's representatives to give them an opportunity to describe specific needs, list priority projects, and articulate issues or concerns with their water systems that weren't necessarily addressed in the Infrastructure Matrix. The following table, Table 2, displays the communities and representatives with whom we exchanged correspondence and the date of the telephone interview. The information collected from the correspondence and the interviews is described in the section below.

	TABLE 2			
Community/Agency	Interviewee(s)	Date of Interview		
Brawley	rawley Yasmin Arellano (Public Works Director), Gordon Gaste (Planning Director)			
Calexico	Unable to contact, no response			
Calipatria	Justina Arce (Senior Planner, The Holt Group), David Godsey (Superintendent, Golden State Water Company)	8/18/2010 10/27/1010		
El Centro	Terry Hagen (Director of Public Works/City Engineer), Norma Villacaña (Planning and Zoning Director), Randy Hines (WWTP Supervisor)	10/27/2010		
Heber	John Jordan (General Manager)	10/28/2010		
Holtville	Justina Arce (Senior Planner, The Holt Group)	8/18/2010		
Imperial	Unable to contact, no response			
Niland	David Godsey (Superintendent, Golden State Water Company)	10/27/2010		
Seeley	Anthony Munger(Supervisor)	10/28/2010		
Westmorland	Unable to contact, no response			
Golden State Water Company	David Godsey (Superintendent, Golden State Water Company)	10/27/2010		
Imperial County	Bill Brunet (Director of Public Works), Jim Minnick (Planning Division Manager)	11/1/2010		

Results of Outreach Activities

While conducting outreach activities, up-to-date information on the wastewater collection, stormwater collection, and potable water distribution systems in each community were obtained when provided, and specific needs and concerns were documented when expressed by the DAC representatives. The current state of each of the systems, system notes, and system issues/concerns gathered from each interview can be found in the Infrastructure Matrix, which can be found at the end of this TM. This Matrix consists of three tables (Stormwater, Wastewater, and Potable Water). An interview summary for each community, as well as a list of priority projects identified by each of the DAC representatives, is presented in the subsequent sections.

City of Brawley

An interview with the Public Works Director, Yazmin Arellano, and the Planning Director, Gordon Gaste, was conducted on September 3, 2010. The current state of each water system is as follows:

- Stormwater Portions of the City adjacent to the New River are prone to flooding as a result of inadequacies in the stormwater system. Approximately 50% of the stormwater collection system in the City is a CSO (combined sewer overflow). The City has neither a Master Drainage Plan nor an electronic model of their stormwater collection system. Future capital investments for the City are identified in their Capital Improvement Plan; however, the implementation of these improvements is dependent upon available funds. The City is interested in obtaining grants to improve their stormwater system. Studies have been performed which indicate that a few areas in the southeast part of the City exhibit good percolation. Priority Projects for the stormwater system include:
 - o Separation of stormwater conveyance and sewer system conveyance, and
 - o Development of a Master Drainage Plan.
- Wastewater The current design capacity of the WWTP is 5.9 MGD, with an average daily flow of 4.7 MGD (80% of capacity). The WWTP has been, and is still, under cease and desist orders for exceedance of their NPDES discharge requirements. However, upgrades to the secondary treatment system are underway and expected to be complete by December, 2010. The improvements are expected to bring effluent discharge into compliance with their NPDES permit and requirements set forth by the RWQCB. Funding for the upgrades to the WWTP was obtained from SRF Funds in 2010, as well as \$10M from the American Recovery & Reinvestment Act of 2009 (ARRA) Grant funds. The City is in talks with ORMAT Energy (a geothermal energy company) regarding the WWTP. While discussions are still preliminary, ORMAT has proposed upgrading the WWTP to tertiary treatment in exchange for access to tertiary treated effluent. The Capital Improvement Plan has identified the need to expand the capacity of the WWTP, which will cost on the order of \$27M. The CIP has also identified the need to rehabilitate a wastewater lift station, which consists of a wet well and pump and would cost \$500k. The City has also had discussions with the City of Imperial to participate in the Keystone WWTP Project to service planned expansion in parts of the City that may be better served from a combined regional facility. No firm agreements have been established. Priority Projects for the wastewater system include:
 - o Expansion of WWTP Capacity, and
 - o Rehabilitation of a wastewater pump station.

- Potable Water The current design capacity of the WTP is 15MGD, with an average daily demand (ADD) of 8.4MGD (approximately 56% of design capacity). The current raw water storage and clear water storage are 35MG and 9MG respectively. Though there is currently ~4 days of raw water storage, the City would like to increase their raw water storage capacity to 52MG (~6 days). The City does not have an electronic model of their distribution system, but bottlenecks and excess pressure zones have been identified. A majority of the distribution system consists of cast iron pipe (~39%) and asbestos cement pipe (~41%), while the remainder consists of PVC (~20%). A number of the Capital Improvement projects involve replacement of cast iron and AC pipe (see 'Priority Projects' below). The current Master Plan is outdated, though City has selected a firm to update the Master Plan in the form of an IRP, including stormwater, wastewater, and potable water. Programs identified in the outdated plan have not been implemented due to lack of funds. The 2010 UWMP was completed by Dynamic Engineering, and has been submitted. Priority Projects for the potable water system include:
 - Expansion of raw water storage capacity, and pumping capacity at the water treatment plant,
 - o Main Street Water Line Replacement,
 - o 86th Street Water Line Replacement, and
 - o Andrata Place Area Improvement (cast iron pipeline replacement).

City of Calexico

The City of Calexico was not able to be contacted or did not respond to queries.

City of Calipatria

An interview with Justina Arce, a Senior Planner for The Holt Group (who provides Planning and Engineering Services for the City of Calipatria) was conducted on August 18, 2010. An interview with Local Operations Superintendent for Golden State Water Company, David Godsey, was conducted on October 27, 2010. The current state of each water system is as follows:

- Stormwater The City does not have a formal Master Drainage Plan, and relies on IID design criteria for sizing of stormwater management facilities. The current storm drain system does not have adequate capacity to provide flood protection. While light rain events are not a problem, larger events (25-year and over) cause puddling, ponding, and inundation of low lying areas. This flooding is not limited to those portions of the City closest to the Alamo River; rather flooding is highly variable and simply dependent upon topography. A lack of infrastructure, as well as funding, makes flood mitigation very difficult in the City. A Priority Project for the stormwater system is:
 - o Development of a Stormwater Management Plan.
- Wastewater Priority Projects for the wastewater system includes:
 - o Wastewater collection system replacement throughout the city, and
 - o Development of a Wastewater Management Plan.

- Potable Water Golden State Water Company operates the water treatment plant and distribution system for Niland, Calipatria, and the Calipatria Prison. The current treatment capacity is 6MGD with an ADD of approximately 2.5MGD (~42% of design capacity). Both the raw water and clear water capacity are currently 9MG (~3-5 days of storage). Golden State Water Company is contemplating the installation of a SCADA system to better manage the distribution system, and to alleviate the occurrence of THMs in the system. A Priority Projects for the potable water system is:
 - o Installation of a SCADA system to control how/where water is distributed. Would assist with THM mitigation.

City of El Centro

A telephone interview was conducted with the Director of Public Works and City Engineer, Terry Hagen, Planning and Zoning Director, Norma Villicaña, and WWTP Supervisor, Randy Hines on October 27, 2010. The current state of each water system is as follows:

- Stormwater Currently, the City captures runoff in retention/detention basins, which then discharge to IID drains. This arrangement does not provide adequate capacity to provide flood protection. The City has completed a draft Master Drainage Plan), but has not yet adopted it. Included in the Master Drainage Plan are locations where flooding and/or conveyance have become a problem and recommended improvements. Though the draft Master Drainage Plan has not yet been approved and released to the public, indications are that to implement recommendations of the Master Drainage Plan would cost approximately \$200M. A Capital Investment plan is being developed. Currently, the City makes improvements when funds are available. Also in development is the creation of an electronic model of the City's storm drain system (being produced by Carollo Engineers). It was acknowledged that a regional stormwater management facility (and a Regional Flood Control District to administer it) would likely provide adequate mitigation of stormwater, and postpone the necessity of implementing the Master Drainage Plan 15-20 years. Priority Projects for the stormwater system includes:
 - o Implementation of the Master Drainage Plan,
 - o Creation of a Regional Flood Control District, and
 - o Development of a Regional Stormwater Management System.
- Wastewater The current design capacity of the WWTP is 8MGD, with an average daily flow of 3.6MGD (45% of capacity). The WWTP has secondary treatment with UV disinfection. While not a consistent problem, effluent discharges from the WWTP are occasionally out of compliance. Development has occurred adjacent to the WWTP, and complaints have been made regarding the odor caused by the WWTP. Due to the poor percolation of local soils, high water table, old infrastructure, and depth of infrastructure, groundwater infiltration has become a problem. Capital Improvement plans would be needed to upgrade the collection system and WWTP. This plan has been completed, but has not yet been adopted. The upgrades would be dependent upon development impact fees and infrastructure and reimbursement agreements. The City is in talks with ORMAT Energy (a geothermal energy company) regarding the WWTP.

Talks are still preliminary, but ORMAT has proposed upgrading the WWTP to tertiary treatment in exchange for access to tertiary treated effluent. In addition to supplying ORMAT with tertiary treated effluent, it has been proposed that purple pipe could be run to local solar farms, highway dividers, parks, schools, or other public lands to irrigate with reclaimed water. Priority Projects for the wastewater system include:

- o Reduce odors detected in developments adjacent to WWTP,
- o Upgrade WWTP to tertiary treatment with assistance of ORMAT, and
- o Investigate feasibility of using reclaimed water for irrigation of public lands.
- Potable Water The current design capacity of the WTP is 21MGD, with an ADD of 7.8MGD. The City has recently constructed the 21MGD WTP, though the old WTP with a capacity of 16MGD is still operational. The City regards the old WTP as a standby plant to be used in case of an emergency. Current raw water storage is approximately 40MG. This provides 2.5 days (summer) to 5 days (winter) of capacity. The clear water storage is currently 10MG. An additional 5MG clear water storage tank was damaged by a recent earthquake. A 4MG replacement tank will be in place by July 2011. The City has access to an electronic model of the distribution system, which is maintained by Carollo Engineers. Carollo has not informed the City of any immediate system deficiencies. The City does not have a replacement program for older sections of the distribution system; rather, pipes are replaced as they fail. The City is currently working on a Capital Investment plan. The local mall is currently serviced from a single-source (non-looped) 20-inch pipe, and does not have fire water storage. Priority Projects for the potable water system include:
 - o Complete construction of 4MG clear water storage tank, and
 - o Provide the local mall with a looped water distribution system and fire water storage.

Heber Public Utility District

A telephone interview with General Manager, John Jordan, was conducted on October 28, 2010. The current state of each water system is as follows:

- Stormwater The Community of Heber has a Master Drainage Plan, which was completed by Nolte in 2006. The Town defers to the Imperial County Planning and Development guidelines, and Imperial County Public Works Department with regard to stormwater facilities and their design. Currently, the Town has adequate capacity in the existing storm drain system. The Town does not have any Priority Projects for the stormwater system.
- Wastewater The current design capacity of the WWTP is 0.65MGD. When the WWTP was originally constructed, it was designed to have a capacity of 0.81MGD. However, it was discovered that, due to deficiencies in the design, the actual capacity was only 0.65MGD. The average daily flow is 0.5MGD (77% of capacity). The current treatment level is primary treatment. The PUD is planning to expand the capacity to 1.2MGD of secondary treatment with UV disinfection, but is having difficulty securing funding. The project cannot be done in phases. Heber PUD is in talks with ORMAT Energy (a geothermal energy company) regarding the

WWTP. Talks are preliminary, but ORMAT has proposed expanding and upgrading the plant to tertiary treatment in exchange for access to tertiary treated effluent. In addition to supplying ORMAT with tertiary treated effluent, it has been proposed that reclaimed water could be used for park irrigation. Priority Projects for the wastewater system include:

- o Expand/upgrade WWTP to 1.2MGD and secondary treatment w/ UV disinfection,
- o Upgrade WWTP to tertiary treatment with assistance from ORMAT, and
- o Investigate feasibility of using reclaimed water for park irrigation.
- Potable Water The current design capacity of the WTP is 2.0MGD, with an ADD of 1.1MGD. Heber PUD has 5.8MG of raw water storage capacity (2.5 to 5 days of capacity), and 5.5MG of clear water storage capacity (2.5 to 5 days of capacity). Since 2004, all new developments have had an electronic model of the distribution system. Heber PUD is currently producing a Water Distribution Study for the older sections of town. This study should be completed by mid-2011. The existing distribution system consists of AC, PVC, and HDPE pipe. Heber PUD does not have a program for old pipeline replacement; rather pipes are replaced as they break. Peak demand occasionally exceeds the 2MGD capacity of the WTP (as permitted by CDPH). Phase 1 and Phase 2 of a three-Phase WTP expansion project have been completed, and Heber PUD is currently working on Phase 3. Phase 3 is expected to be completed by the end of 2011. The capacity of the WTP will be expanded to 6MGD once Phase 3 is complete. After Phase 3 of the current expansion to 6MGD is complete, the total capacity of the WTP can be further expanded up to 16MGD without a major redesign. The current expansion project (6MGD) will meet Heber PUD demands for at least the next 15 years. Priority Projects for the potable water system include:
 - o Completion of Phase 3 of WTP expansion,
 - o Complete Water Distribution Study for older sections of town,
 - o Expand raw water storage capacity to 12MG, and
 - Investigate feasibility and benefits of constructing interties between communities that would allow for delivery of potable water in the event of an emergency or WTP shutdown.

City of Holtville

An interview with Justina Arce, a Senior Planner for The Holt Group (who provides Planning and Engineering Services for the City of Holtville) was conducted on August 18, 2010. The current state of each water system is as follows:

• Stormwater – The City of Holtville has adopted Imperial County standards for stormwater collection. With the exception of stormwater detention basins, and IID drains, there is no stormwater infrastructure. As such, there is no stormwater Capital Investment plan. Portions of the City, especially near the Alamo River, are subject to flooding. Standing/stagnant water is a problem in portions of the City due to a lack of drains and conveyance. Also, approximately 60% of stormwater runoff from the City flows into an industrial area due to a lack of proper drainage and conveyance systems. Major pipelines are non-existent in a number of areas within the City.

Overall, conveyance systems in the City are inadequate. A preliminary engineering report identified the need for a large retention basin to prevent flooding. A more in depth analysis of the drainage in the City would be beneficial. Potential Projects for the stormwater system include:

- o Stormwater conveyance system and retention basin improvements, and
- o Development of a Stormwater Master Plan
- Wastewater The current design capacity of the WWTP is 1.3MGD, with an average daily flow of 0.60 to 0.65 MGD (46% to 50% of capacity). The WWTP has secondary treatment with UV disinfection. The WWTP is currently under cease and desist orders for exceeding their NPDES permit requirements. The effluent exceeds ammonia and heavy metal concentrations, as well as pesticide concentrations due to infiltration from ag fields. A \$1M grant has been awarded by the Border Environment Cooperation Commission (BECC) to the City to make WWTP improvements to become compliant with their NPDES permit. However, the City needs 50% matching funds. The City Engineer is seeking an agreement with ORMAT Energy (a geothermal energy company) in which ORMAT will assist in upgrading the WWTP to tertiary treatment in exchange for receiving a portion of the treated effluent. The City is also in discussions with IID to ascertain what level of treatment would allow the City to discharge treated effluent to the canal system. Priority Projects for the wastewater system include:
 - o Upgrades to WWTP to comply with NPDES permit,
 - o Wastewater collection system and retention basin improvements, and
 - o Development of a Master Sewer Plan.
- Potable Water The current design capacity of the WTP is 3.15MGD, with a peak day demand of 3MGD. The City has approximately 9MG of raw water storage and 3.9MG of clear water storage. An earthquake recently damaged the raw water ponds and a 1.5MG clear water storage tank. The City has begun repairs and lining three raw water ponds under a USDA grant. Currently, only one pond has been fully repaired; though all three have been lined. A 2.4 MG clear water tank was constructed earlier this year, and the former 1.5MG tank was repaired, but with a lower capacity at 1.4 MG. The distribution system is undersized and provides poor fire flow and pressure. Priority Projects for the potable water system include:
 - o Complete repairs to raw water ponds, and
 - o Development of a Master Water Plan.

City of Imperial

The City of Imperial was not able to be contacted or did not respond to queries.

Niland Sanitary District and Golden State Water Company

A telephone interview with the Local Operation Superintendent for Golden State Water Company, David Godsey, was conducted on October 27, 2010. The current state of each water system is as follows:

- **Stormwater** There is no stormwater collection system to speak of in Niland. All runoff discharges to agricultural drains administered by IID. There are no stormwater Priority Projects.
- Wastewater The current design capacity of the WWTP is 0.5MGD, with an average daily flow of 0.08MGD (16% of capacity). The current level of treatment is primary; with chlorination/fluoridation ponds. The WWTP is out of compliance with their NPDES permit for consistently exceeding the allowable copper concentration. The Economic Development Department issued a grant to Niland SD help deal with infiltration issues. The liners that were placed in much of the collection system reduced infiltration quite substantially; previous (June 2009) average daily flow into the WWTP was 0.18MGD. This equates to nearly a 56% reduction in flow. Despite the improvement grant for the collection system, Niland SD may dissolve due to lack of operations funding. The area is severely disadvantaged and many residents are not paying taxes that would go to Niland SD. Priority Projects for the wastewater system include:
 - o Obtain funding for operation, or have another entity take over operations,
 - o If Niland SD dissolves, connect collection system to Calipatria's WWTP,
 - o If Niland SD does not dissolve, upgrade WWTP to secondary treatment to meet NPDES permit requirements, and
 - o Replace older sections of pipe and/or line system to prevent infiltration issues.
- Potable Water See Potable Water section for the City of Calipatria

Seeley County Water District

A telephone interview with Supervisor, Anthony Munger, was conducted on October 28, 2010. The current state of each water system is as follows:

- **Stormwater** There is little to no stormwater infrastructure in place. Several areas directly adjacent to the New River are subject to flooding. Priority Projects for the stormwater system include:
 - o Flood mitigation for areas directly adjacent to the New River.
- Wastewater The current design capacity of the WWTP is 0.2MGD, with an average daily flow of 0.10MGD (50% of capacity). The current level of treatment is secondary with UV disinfection. The WWTP is meeting the NPDES discharge requirements. There is no program in place for replacement of old sections of the collection system; rather pipes are replaced as they break. Seeley County Water District is currently in preliminary talks with SES Solar regarding the WWTP. SES Solar has proposed upgrading the WWTP to tertiary treatment in exchange for receiving 0.15 to 0.2MGD of treated effluent for construction and operation activities at the Solar Two facility. Priority projects for the wastewater system include:

- Upgrading WWTP to tertiary treatment with the assistance of the SES Solar Two facility in exchange for delivering treated effluent to the facility, and
- Preventative replacement program for older sections of pipe in the collection system.
- Potable Water The current design capacity of the WTP is 0.75MGD, with an ADD of 0.29MGD. The Seeley County Water District currently has 2MG of raw water storage, and 0.9MG of clear water storage. However, construction is ongoing for both raw water and clear water storage. An additional 5MG raw water tank is being constructed, while a total of 1.3MG of clear water storage will be available at the beginning of the year. The District has an electronic model of the existing distribution system. There are no system deficiencies identified by the model, though many pipes in the distribution system are old and prone to breaking. The District received a grant from the U.S. Department of Agriculture in September of 2010 for pipeline replacement, and will begin implementation in January 2011. Priority Projects for the potable water system include:
 - o Implementation of pipeline replacement program using grant funds beginning January 2011,
 - o Expansion and lining of existing raw water ponds is currently underway,
 - o Expansion of clear water storage to 1.3MG will be complete by January 2011, and
 - o Consideration of permanent emergency connections with El Centro or Naval Base.

City of Westmorland

The City of Westmorland was not able to be contacted or did not respond to queries.

County of Imperial

A telephone interview with the Director of Public Works, Bill Brunet, and the Planning Division Manager, Jim Minnick was conducted on November 1, 2010. The County oversees operations for Gateway of the Americas WWTP and WTP. The current state of each water system is as follows:

- Stormwater There is very little stormwater infrastructure in Gateway of the Americas. Parking areas serve as detention basins and are designed to pond to a depth of 6 inches during storm events. These basins then infiltrate the water into the ground, or discharge to Ash Canal or the Alamo River. There is neither a Master Drainage Plan, nor a Capital Improvement Plan; facility construction is dependent upon development. Currently, the stormwater management system adequately conveys storm flows and provides adequate flood protection. No stormwater Priority Projects have been identified.
- Wastewater The current design capacity of the WWTP is 0.2MGD, with an average daily flow of 0.014MGD (7% of capacity). Treatment currently entails filtration and UV disinfection. The WWTP is currently in Expansion Phase II of a 5-Phase design. Future capacity is expected to be 1.5MGD, and future treatment is expected to be activated sludge with UV disinfection. Phases 3 through 5 are dependent upon growth and funding. The 2005 Service Area Plan identifies future Capital Investments. Priority Projects for the wastewater system include:

- o Complete Expansion Phase II on the WWTP.
- **Potable Water** The current design capacity of the WTP is 0.12MGD, with a maximum daily demand of 0.95MGD. There is 1.8MG of raw water storage and 1MG of clear water storage. The system occasionally experiences exceedance of water quality limits. The WTP is currently undergoing Phase II expansion. Priority Projects for the potable water system include:
 - o Complete Phase II expansion on the WTP.

Ongoing communication with the above agencies is essential in assuring that common DAC issues and needs are incorporated into, and met by, the Imperial IRWM Plan. The above agencies will be contacted periodically to update the Infrastructure Matrix to reflect facility and distribution/collection system changes.

Common Themes amongst Communities

A. Stormwater Issues

- a. Currently, communities located near either the Alamo or New River discharge directly to the river. The runoff from other communities is directed to detention basins which discharge to drains maintained by IID. While there is a county ordinance requiring these detention basins to empty the 100-year storm within 72 hours, the basins rarely drain in the allotted time. This is due to a combination of factors, including poor percolation of the soils, a high water table, and insufficient capacity in the IID drains.
- b. Another issue with the current state of drainage in many of the communities is that agricultural drainage passes through a community on the way to a drain or one of the rivers.
- c. There is no county-wide flood control district, no benefits assessment zones to provide a revenue source, and no regional master plan for drainage.

B. Wastewater Issues

- a. All communities interviewed expressed a desire to replace the older portions of their wastewater collection systems.
- b. Due to the high water table in most of the Region, infiltration is a concern.
- c. The current level of treatment for many WWTPs in the Region is primary or secondary. Due to this, many WWTPs exceed their NPDES discharge requirements.
- d. The Region, as a whole, is economically depressed, and as such, the individual communities do not have the funds to develop updated master sewer plans, subsidize pipeline replacement programs, or upgrade their respective WWTPs.
- e. Many communities are in talks with energy companies in the area. The general thrust of these discussions is that the energy company is willing to pay for upgrading the local

WWTP to tertiary treatment in exchange for access to the treated effluent for facility operations.

C. Domestic Water Issues

- a. Very few communities have the raw water and clear water reserve capacity suggested by the State Public Health Department in the event of an emergency; 3 to 5 days. This includes alternate sources of raw and potable water.
- b. Old pipes are replaced as they break, causing shortages at inconvenient times. Many of the zone control valves are old as well, and do not function properly. This causes system maintenance to affect a larger area and a greater number of people than desired.

Potential Regional Projects that Address Common Needs

- **A. Stormwater Projects** Once the Imperial IRWM Plan has been adopted, the Region will be eligible to apply for Proposition 1E grant funding. Prop 1E funds are granted for a variety of flood protection improvement and flood management projects. The Region would apply for funding of their stormwater planning and stormwater facility projects under Prop 1E.
 - a. The creation of a Regional Flood Control District was discussed by a number of communities; especially those communities locate on/near the Alamo or New River.
 - b. A regional storm drain facility capable of conveying the 100-year storm, as well as agricultural drainage, without the need for detention basins would allow for a more efficient use of land in the Region
- **B.** Wastewater Projects In addition to Prop 1E grants, the Region will be eligible for Proposition 84 grant funding. Prop 84 has two distinct areas of funding; Planning and Implementation. Prop 84 Planning grants fund the development of regional planning documents (Master Water Plans, Master Sewer Plans, IRWMPs, etc.), while Prop 84 Implementation grants fund the implementation (design, construction, etc.) of water reliability and water quality projects within the IRWM Plan. The Region could apply for funding of their wastewater and domestic water planning and implementation projects under Prop 84.
 - a. A fund or program for lining or replacing older portions of the wastewater collection systems in each community and city.
 - c. Upgrade the WWTPs in each community with secondary or tertiary treatment. If not economically feasible, consider a regional WWTP. Define economic incentives to support upgrades by energy industry through a cooperative program. Develop strategies to allow for crediting wastewater created through use of this water in-lieu of Colorado River supplies.
 - d. Create a **regional** engineering and/or an operation and maintenance fund for collection system pipe replacement.

C. Domestic Water Projects - See Above.

- a. Create interconnections between adjacent communities to allow for delivery of potable water in the event of an emergency or treatment plant shutdown.
- b. Create a regional engineering and/or an operation and maintenance fund for distribution system pipe replacement.

Funding

The following funding sources have been utilized for a number of infrastructure improvement projects in the Region:

• Clean Water State Revolving Fund (CWSRF)

The purpose of the CWSRF is to implement the Federal Clean Water Act and various State water quality laws by providing financial assistance for construction or implementation of projects that address water quality problems and to prevent pollution of the waters of the State.

The CWSRF Program provides low-interest loans and other financing mechanisms for construction of publicly-owned wastewater treatment facilities, local sewers, sewer interceptors, water recycling facilities, storm water treatment facilities, as well as, expanded use projects such as implementation of nonpoint source (NPS) projects or programs, and development and implementation of estuary Comprehensive Conservation and Management Plans (CCMPs). While there are no specific funds directed toward DAC projects, or IRWMP projects, the types of projects that will likely be included in the Imperial IRWMP are a perfect fit for the types of projects funded by the CWSRF.

An example of CWSRF utilization in the Region is that of the City of Brawley, who received \$24,595,000 to expand their Wastewater Treatment Facility.

• California Department of Public Health Safe Drinking Water State Revolving Fund (SDWSRF)

The purpose of the SDWSRF is to provide low cost loans and grants, and to provide other types of assistance to water systems to achieve or maintain compliance with the Safe Drinking Water Act (SDWF) requirements. The SDWSRF Program supports the US EPA National Strategic Plan, whose goals include:

- o Ensure drinking water is safe. Restore and maintain oceans, watersheds, and their aquatic ecosystems to protect human health, support economic and recreational activities, and provide health habitat for fish, plants, and wildlife.
- o Protect human health by reducing exposure to contaminants in drinking water (including protecting source waters), in fish and shellfish, and in recreational waters.
- By 2014, 93 percent of the population served by community water systems will receive drinking water that meets all applicable health-based drinking water standards through effective treatment and source water protection.

There are numerous examples of SDWSRF utilization in the Region. A few of these SDWSRF Projects are explained below:

- City Of Brawley Citywide replacement of aged water distribution system. Redesign and improvement of the system to lessen the possibility of service interruption.
 Cost of Project - \$12,500,000.
- City of Calexico Upgrade of the existing Water Treatment Plant. Replacement of functional but obsolete equipment and structures.
 Cost of Project - \$10,000,000.
- City of Holtville Annexation of service area. A number of residences are served by raw, unfiltered canal water which does not meet coliform standards. By annexing the residences into the service area, they could be serviced from the Holtville WTP.
 Cost of Project - \$2,537,948.

Proposition 1E, Disaster Preparedness and Flood Protection Bond Act of 2006

The purpose of Proposition 1E is to pay for levee repairs and improvements, upgrade flood protection for urban areas, improve emergency response capabilities, and provide grants for stormwater flood management projects.

• Proposition 84, Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Act of 2006

The purpose of Proposition 84 is to provide planning and implementation funding for the Integrated Regional Water Management Plan grant program and associated projects. The aim of the IRWMP Program is to secure long-term water supply reliability within California by pursuing projects that yield multiple benefits for water supplies, water quality, and natural resources.

Next Steps

- Coordinate a DAC Workshop to discuss funding opportunities, review needs, coordinate
 discussion of regional solutions (projects, programs, and policies) for inclusion in the IRWMP,
 and coordinate project priorities for the Proposition 84 Implementation Grant.
- Conduct a Preliminary Call for Projects in the first quarter of 2011 to identify projects to include in the IRWMP and potentially include in a Proposition 84 grant application.

References

City of Brawley, Final General Plan Update, 2030, September 2008

City of Brawley, 2005 Urban Water Management Plan, December 2005

City of Calexico, General Plan, Service Area Plan, June 2006

City of Calexico, Service Area Plan, May 2006

City of Calexico, 2007 Urban Water Management Plan, March 2007

City of Calexico, Water Master Plan, July 2003

City of Calipatria, Final Calipatria Service Area Plan (CL1-04), November 2004

City of El Centro, General Plan, February 2004

City of El Centro, Service Area Plan, November 2005

City of El Centro, 2005 Urban Water Management Plan, March 2006

City of Holtville, Service Area Plan / Municipal Service Review, October 2006

City of Imperial, General Plan, December 1992

City of Imperial, 2005 Urban Water Management Plan, December 2005

City of Westmorland, Service Area Plan, October 2004

County of Imperial, General plan

Heber Public Utility District, Wastewater Treatment Plant Expansion, Updated Preliminary Engineering Report, May 2008

Seeley CWD, Seeley Wastewater Reclamation Facility Improvements, March 2010

Brawley Potable Water Inventory

Known Conditions

Updated Conditions

_			Known Conditions	Opdated Conditions
		Location	City of Brawley	City of Brawley
		Interviewee:		Yazmin Arellano/Gordan Gaste
	Questions:	Date of Interview:		9/3/2010
1	What is you	r primary role?		Public Works Director/Planning Director
	Data curren		2006	9/3/2010
		tment capacity is XXMGD?	15MGD	15MGD
2	Current raw	water storage capacity?	0.25MG + 3.00MG + ??MG reservoir	35 MG
-		water pump station capacity?		
		r water storage capacity?	9MGD	9 MGD
		r water pump station capacity?	16875gpm	22,5000 gpm, have another smaller facility 4,800 gpms
3		rage Daily Demand (ADD)?	8.4MGD	8.4 MGD
	-	kimum Day Demand? at Peak Hour?	12.6MGD (MDD); 23400gpm(PHD)	same
	Do you have	a model of the existing distribution system?	(Implied but not stated - SAP Pg. 4-63)	NO
	Current syst	em deficiencies (low pressure/low flow/WQ)?		Plus need more raw water storage and eliminatation of bottlenecks within the system
4	•		pipes (~39% of system)	to balance system pressue
"	Types of pip	e in system	Cast Iron(~39%), Asbestos Cement(~41%), PVC(~20%)	same
	D			Programs identified in the Master Plan have not been implemented as a result of lack
	Program for	replacing old/damaged pipe reaches?	1999 Water Master Plan	money
	Future treat	ment capacity is XXMGD?	30MGD	
	Future raw v	water storage capacity?	8.8MG	52 MG
5	Future raw	water pump station capacity?		2,8000 GPM
	Future clear water storage capacity?		15.0MG	
	Future clear	water pump station capacity?		45,000 GPM
	Future Aver	age Daily Demand (ADD)?	16MGD	
6	Future Maxi	mum Day Demand? at Peak Hour?	24MGD(MDD); 44400gpm(PHD)	
"	Future Maxi	mum Day Demand at Peak Hour plus Fire		
	Conditions?			
	Is there a ni	an that identifies future capital investments for	Yes. See 1999 Water Master Plan, Brawley SAP -	
		nt facility and/or the distribution system?	Page 4-64 and 4-67, and/or Development	Current Master Plan is outdated, and the City will be advertising soon to update the
7	(Conoral Dia	n, Master Water Plan, Service Area Plan, etc.)	Impact Fee (DIF) Study	Master Plan in the form of an IRP including WW, DW, and SW facilities.
'	,	· · · · · · · · · · · · · · · · · · ·		
	When do yo	u anticipate making upgrades/improvements,	Phased: PhI - 1999-2009, PhII - 2010-2014, PhIII -	20
	what is the	time frame (e.g; 1 year, 3 yrs, 5 years)?		20 yrs.
8	What is you	r planning horizon?	development occurs 2025	2030
9		rocedure for drought/low supply conditions?		none
10		event of a disaster/emergency?		no
				2005 UWMP completed, 2010 UWMP has been submitted and was completed by
	Other Notes			Dynamic Engineering. No Emergency Response Plan Exists; currently have 4-day
				supply. No Interconnections or redundencies exist within system. Priority Projects Identified -
				1) 86th St. Water Line Replacement Project
				2) Expand raw water storage capacity/add water pump at water plant
				3) Andrata Place Area Improvement Project
				4) Additional Water Reservoir and Pumping Station
				5) Main St. Water Line Replacement
Щ.				

Brawley Stormwater Inventory

Known Conditions

Updated Conditions

			Known Conditions	Updated Conditions
		Plant:	City of Brawley	City of Brawley
		Interviewee:		Yazmin Arellano/Gordan Gaste
(Questions:	Date of Interview:		September 3,2010
1		r primary role?		Public Works Director/ Planning Director
2	What are yo control?	ur land use policies as they relate to flood	Discourage development in the New River flood channel (Open Space designation).	
3	Is there a pla for stormwa	an that identifies future capital investments ter?		CIP, and eventually the SW section of the newly developed IRP
4	Do you have	a Master Drainage/Stormwater Plan?	No.	No
5	Do you have managemen	design criteria pertaining to stormwater t facilities?	Yes	Yes
)		esign storm return frequency is required vr, 10-yr, etc.)?	Detention basins - 100-yr/24hr storm.	Detention basins - 100-yr/24hr storm.
6	1	an electronic model of the storm drain or floodplain (if near a river)?		No
7		xisting storm drain system have adequate capacity to provide flood protection?	No.	No, various sections of the City are prone to flooding as a result of an inadequate sewer system.
		you identified any locations where flooding, etc. has been or has become an issue?	Multiple facilities subject to minor, shallow flooding and ponding.	Various sections of the City where CSO exists - approx. 50 percent of the system
8		u anticipate making improvements, what is me (e.g; 1 year, 3 yrs, 5 years)?	As new development occurs.	As funds become available
9	Do you have facilities?	any combined stormwater/sewer (CSO)	Yes, approximately half of the City's drainage system.	Yes- approx. 50 percent of the system
	Do you have	any plans to separate them?	Yes	Yes
10	water captu	a goal or an existing program for storm re and reuse, infiltration, or groundwater		No
	Are soil cond practical?	ditions such that infiltration or recharge is		There are a few areas in the southeast part of town sandy soils about 25% of that area demonstrates good percolation
12	What are the conveyance	e biggest constraints to stormwater ?	Flat land, intense storm events, and low infiltration rates.	Funding, and 2) new regulations i.e. MS4 Permit requirements. The City is not at a point where they can meet effluent limitations.
		Other Notes		Would like to apply for Flood Management Grants to improve stormwater systems Priority Projects 1) Separation of CSO 2) Master Drainage Plan

Brawley Wastewater Inventory

KNOWN CONDITIONS

UPDATED CONDITIONS

		KNOWN CONDITIONS	OPDATED CONDITIONS
	Plant:	City of Brawley WWTP	City of Brawley WWTP (2010)
	Interviewee:	Ruben Mireles	Yazmin Arellano/Gordan Gaste
Questions:	Date of Interview:	June 16, 2009	September 3, 2010
What is your p	rimary role?	Operations Division Manager	Public Works Director/Planning Director
Size of WWTP		5.9	5.9
	•	No, Currently at 4.0 MGD	Currently at 80 percent capacity
Are you under	any compliance requirements?	Yes, Cease and Desist Order from the Cal Regional Water Quality Control Board.	Yes, still under cease and desist order, however, they are in the process of upgrading plant to fullfil requirement set forth by RWQCE
	•	1460 million/year and 4.0 MGD.	same
What is your le	evel of treatment?	Primary (Plans to upgrade to secondary in a year)	Secondary
Any land dispo	sal or reuse?	No	same
		Maybe consider after planned treatment level improvements, depending on city growth. No need anticipated in near future.	No estimate available, but agreements are in place with ORMAT for future service
What level of tanticipated?	reatment and treatment process are	Improvements will consist of Secondary Treatment using wave oxidation process, and eventually to reclaim.	Secondary treatment
What is your p	lanning horizon?	Enable treatment facility to meet all the 2010 permit requirements, 2010 NPDES Permit is a five year permit	2030
1	-	Yes - 25 to 30 million within the next 3 years. Funds already committed? Yes -	Currently the Capital Improvement Plan identifies needs, however this should be updated by June 2011- WW Section of IRP.
When do you a	anticipate making upgrades, what is the	Less than one year	Whenever there is a need. Currently, the City has a deficit of funds.
Any plans for r	euse?		
		Yes, Industrial (see above).	
		Very good	very good- if funding is available
-		Environmental –CEQA process, have to look at impacts to River	
What are the b	piggest constraints to reuse?	Environmental and long term agreements	
	Other Notes		Upgrades to secondary treatment will be complete by December 2010; Funds for upgrade were derived from SRF Funds and \$10M from ARRA; Continuing discussions with ORMAT - Potential need to upgrade to tertiary treatment
	- **		Priority Projects Identified 1) Rehabilitation Station - Wet well and pump - \$500k 2) Expansion of WWTP Capacity - \$27M (currently at 80% capacity)
	Size of WWTP Any capacity is design capacity Are you under What were tot the plant in 20 What is your le Any land dispo What is the an capacity (Annu What level of tanticipated? What is your p Is there a plan investments w When do you a time frame (e.; Any plans for r Is there a curre Primarily Ag? From your permarket of trea Do you envisio with upgrading	Questions: Date of Interviewe: What is your primary role? Size of WWTP Any capacity issues; how close are you to the use of the design capacity? Are you under any compliance requirements? What were total and monthly annual total flows from the plant in 2008? What is your level of treatment? Any land disposal or reuse? What is the anticipated need and planned future design capacity (Annual total, monthly)? What level of treatment and treatment process are anticipated? What is your planning horizon? Is there a plan that identifies what future capital investments would be for the plant? When do you anticipate making upgrades, what is the time frame (e.g; 1 year, 3 yrs, 5 years)? Any plans for reuse? Is there a current or future market for WWTP flows? Primarily Ag? Industrial? Etc. From your perspective, what do you envision the future market of treated wastewater effluent would be? Do you envision any regulatory constraints associated with upgrading effluent quality to meet a new market? What are the biggest constraints to reuse?	What is your primary role? Size of WWTP S.9

Potable Water Inventory

Known Conditions Updated Conditions

		Kilowii Collattiolis	
	Location	City of Calexico	City of Calexico
	Interviewee:		
Questions:	Date of Interview:		
1 What is you	ur primary role?		
Data currer	nt as of?		
Current tre	atment capacity is XXMGD?		
Current rav	v water storage capacity?		
2 Current rav	v water pump station capacity?		
Current cle	ar water storage capacity?		
Current cle	ar water pump station capacity?		
Current Ave	erage Daily Demand (ADD)?		
3 Current Ma	ximum Day Demand? at Peak Hour?		
Do you hav	e a model of the existing distribution system?		
4 Current sys	tem deficiencies (low pressure/low flow/WQ)?		
	pe in system		
Program fo	r replacing old/damaged pipe reaches?		
Future trea	tment capacity is XXMGD?		
Future raw	water storage capacity?		
	water pump station capacity?		
Future clea	r water storage capacity?		
	r water pump station capacity?		
	rage Daily Demand (ADD)?		
6 Future Max	rimum Day Demand? at Peak Hour?		
Future Max Conditions?	rimum Day Demand at Peak Hour plus Fire		
the treatme	lan that identifies future capital investments for ent facility and/or the distribution system? an, Master Water Plan, Service Area Plan, etc.)		
When do yo	ou anticipate making upgrades/improvements,		
8 What is you	ur planning horizon?		
9 Mitigation	procedure for drought/low supply conditions?		
10 Plan in the	event of a disaster/emergency?		
	Other Notes		

Stormwater Inventory

Updated Conditions Known Conditions Plant: City of Calexico City of Calexico Interviewee: Questions: Date of Interview: 1 What is your primary role? 2 What are your land use policies as they relate to flood Is there a plan that identifies future capital investments for stormwater? 4 Do you have a Master Drainage/Stormwater Plan? Do you have design criteria pertaining to stormwater management facilities? If so, what design storm return frequency is required (100-yr, 50-yr, 10-yr, etc.)? Do you have an electronic model of the storm drain system and/or floodplain (if near a river)? Does your existing storm drain system have adequate conveyance capacity to provide flood protection? If not, have you identified any locations where flooding, conveyance, etc. has been or has become an issue? When do you anticipate making improvements, what is the time frame (e.g; 1 year, 3 yrs, 5 years)? Do you have any combined stormwater/sewer (CSO) 9 facilities? Do you have any plans to separate them? Do you have a goal or an existing program for storm water capture and reuse, infiltration, or groundwater recharge? Are soil conditions such that infiltration or recharge is 12 What are the biggest constraints to stormwater Other Notes

Wastewater Inventory

KNOWN CONDITIONS UPDATED CONDITIONS Plant: City of Calexico City of Calexico Interviewee Questions: Date of Interview: What is your primary role? Size of WWTP Any capacity issues; how close are you to the use of the design capacity? Are you under any compliance requirements? What were total and monthly annual total flows from the plant in 2008? What is your level of treatment? Any land disposal or reuse? What is the anticipated need and planned future design capacity (Annual total, monthly)? What level of treatment and treatment process are anticipated? What is your planning horizon? Is there a plan that identifies what future capital investments would be for the plant? When do you anticipate making upgrades, what is the time frame (e.g; 1 year, 3 yrs, 5 years)? Any plans for reuse? Is there a current or future market for WWTP flows? Primarily Ag? Industrial? Etc. From your perspective, what do you envision the future market of treated wastewater effluent would be? Do you envision any regulatory constraints associated 10 with upgrading effluent quality to meet a new market? What are the biggest constraints to reuse? Other Notes

Potable Water Inventory

Known Conditions Updated Conditions

				Known Conditions	Updated Conditions
			Location	Calipatria-Niland-Prison	Calipatria-Niland-Prison
			Interviewee:		David Godsey
	Ques	stions:	Date of Interview:		
_1	L Wh	hat is your	primary role?		Local Operations Superintendent
	Dat	ta current	as of?	Treatment - 2006; Demand - 2005	10/27/2010
	Cur	rrent treat	tment capacity is XXMGD?	6MGD	6MGD
	Cur	rrent raw	water storage capacity?	9.0MG	9MG
1	Cur	rrent raw	water pump station capacity?	3500GPM	3500 GPM
	Cur	rrent clear	r water storage capacity?	4.0MG	3-5 day max
	Cur	rrent clear	r water pump station capacity?	5500gpm	
	Cur	rrent Aver	rage Daily Demand (ADD)?	2.5MGD	
	Cur	rrent Max	imum Day Demand? at Peak Hour?	3.3MGD(MDD); 4000gpm(PHD)	
	Do	you have	a model of the existing distribution system?		
	Cur	rrent syste	em deficiencies (low pressure/low flow/WQ)?		No Issues
'			e in system		
	Pro	ogram for	replacing old/damaged pipe reaches?		Maintenance program
			ment capacity is XXMGD?	8.0MGD	
	Fut	Future raw water storage capacity?		9.0MG	
į	Fut	Future raw water pump station capacity?			
	Fut	Future clear water storage capacity?		4.0MG	8MG
			water pump station capacity?	5500gpm	
	-		age Daily Demand (ADD)?	3.6MGD	
6	Fut	ture Maxir	mum Day Demand? at Peak Hour?	4.7MGD(MDD); 6000gpm(PHD)	
1	Fut		mum Day Demand at Peak Hour plus Fire		Fire testing by CH2MHill
	Cor	nditions?			THE COSTING BY CHEMINI
	Is tl	there a pla	an that identifies future capital investments for		
		•	nt facility and/or the distribution system?		Emergency Response Plan
1	(Ge	eneral Plai	n, Master Water Plan, Service Area Plan, etc.)		
	Wh	hen do voi	u anticipate making upgrades/improvements,		
5			planning horizon?	2025	
_	_		rocedure for drought/low supply conditions?		
	10 Plan in the event of a disaster/emergency?				
	•		Other Notes	California Water Company. Will serve Calipatria	Engaging in THM mitigation due to tank and pipeline arrangement. City is at the far end of the system. Scada system may help with THM as there is more control with how/where water is distributed. Funding not really available due to the fact that Golden State Water (private company) owns the distribution and treatment facilities.

Stormwater Inventory

Known Conditions Updated Conditions

			Known Conditions	Updated Conditions
		Plant:	City of Calipatria	City of Calipatria
		Interviewee:		Justina Arce
	Questions:	Date of Interview:		
1	What is you	r primary role?		Senior Planner for the Holt Group
2	What are yo	our land use policies as they relate to flood		
3	Is there a pla for stormwa	an that identifies future capital investments iter?	No. Dependent upon future construction.	
4	Do you have	e a Master Drainage/Stormwater Plan?	Yes.	
5	Do you have managemer	e design criteria pertaining to stormwater nt facilities?	No.	
	(100-yr, 50-y	lesign storm return frequency is required yr, 10-yr, etc.)?		
6		e an electronic model of the storm drain 'or floodplain (if near a river)?		
7		xisting storm drain system have adequate capacity to provide flood protection?	Adequate for light rainfall events, but inadequate for 25-year storm event.	
	-	you identified any locations where flooding, , etc. has been or has become an issue?	Numerous areas of puddling, ponding, and inundation of low lying areas.	
8	-	u anticipate making improvements, what is me (e.g; 1 year, 3 yrs, 5 years)?	As development occurs.	
9	,	any combined stormwater/sewer (CSO)	None mentioned.	
	Do you have	e any plans to separate them?		
10	water captu recharge?	e a goal or an existing program for storm re and reuse, infiltration, or groundwater	Retention basins expected to infiltrate water into ground.	
	Are soil con	ditions such that infiltration or recharge is	Yes.	
12	What are th conveyance	e biggest constraints to stormwater ?	Many paved street sections w/in the City have been constructed w/out consisten design parameters. Curb, gutter, cross gutter, storm drains, channels, and swales are either non-existant or ineffectively applied.	
		Other Notes		Develop Stormwater Management Plan

Wastewater Inventory

KNOWN CONDITIONS

UPDATED CONDITIONS

	-		MICOUN CONDITIONS	0.2/1.2/00/12/10/10
		Plant:	City of Calipatria	City of Calipatria
			Ruben Mireles	Justina Arce
	Questions:	Date of Interview:	June 16, 2009	August 18, 2010
1	What is your p	rimary role?	Chief Plant Operatory - oversee operation requirements as well as	Senior Planner for the Holt Group
_		,	correspondence on the administrative side.	'
	Size of WWTP		1.73	1.73
			No issues had been 1 MGD for 3 or 4 years. Most comes wastewater treated at	
			the plant comes from Calipatria state prison and the prison recently installed a lot	
2	design capacit	y?	of water reducing devices (toilets, shower heads, etc) so since (about 5-6 most	
-			recent months) average flow has been about 0.75 MGD.	
			Cyanide problem in past – investigated, concluded laboratory error. For last two	
	Are you under	any compliance requirements?	years have been in compliance but region board wants prelim design for	
			upgrading to secondary treatment with eventual reclamation – currently working	
	What were tot	al and monthly annual total flows from	on prelim design report 1 MGD for 2008 and for few years prior last 5 to 6 months dropped to 0.75 MGD	
3	the plant in 20		and expected to stay at this level (see #2 response)	
4	What is your le	evel of treatment?	Primary – starting prelim design for upgraded to secondary.	
4	Any land dispo	sal or reuse?	No	
5	What is the an	ticipated need and planned future design	None at this time.	
6	What level of t	reatment and treatment process are	Secondary	
7	What is your p	lanning horizon?	Dependant on prelim designed report and funding opportunities.	
	Is there a plan	that identifies what future capital	No funding identified or committed yet.	
8	•	anticipate making upgrades, what is the g; 1 year, 3 yrs, 5 years)?	Probably within 3-5 years for upgraded to secondary treatment.	
	Any plans for r		There has been discussion to consider reclamation.	
	Is there a curre	ent or future market for WWTP flows?	Not that aware of – City manager may be aware of something.	
		Industrial? Etc.	There had been some talk with an Ethanol plant at one point.	
9	, ,	spective, what do you envision the future ted wastewater effluent would be?	Could be either for Ag use or possibly industrial.	
10	with upgrading	on any regulatory constraints associated g effluent quality to meet a new market?	Environmental but because discharge to drain there may be less impact or considerations needed	
	What are the b	piggest constraints to reuse?		
				Priority Projects include:
		Other Notes		Wastewater collection system replacement throughout the city.
		Still. Hotes		Development of a Wastewater Management Plan

Brawley Stormwater Inventory

Known Conditions

Updated Conditions

			Known Conditions	Updated Conditions
		Plant:	City of Brawley	City of Brawley
		Interviewee:		Yazmin Arellano/Gordan Gaste
(Questions:	Date of Interview:		September 3,2010
1		r primary role?		Public Works Director/ Planning Director
2	What are yo control?	ur land use policies as they relate to flood	Discourage development in the New River flood channel (Open Space designation).	
3	Is there a pla for stormwa	an that identifies future capital investments ter?		CIP, and eventually the SW section of the newly developed IRP
4	Do you have	a Master Drainage/Stormwater Plan?	No.	No
5	Do you have managemen	design criteria pertaining to stormwater t facilities?	Yes	Yes
)		esign storm return frequency is required vr, 10-yr, etc.)?	Detention basins - 100-yr/24hr storm.	Detention basins - 100-yr/24hr storm.
6	1	an electronic model of the storm drain or floodplain (if near a river)?		No
7		xisting storm drain system have adequate capacity to provide flood protection?	No.	No, various sections of the City are prone to flooding as a result of an inadequate sewer system.
		you identified any locations where flooding, etc. has been or has become an issue?	Multiple facilities subject to minor, shallow flooding and ponding.	Various sections of the City where CSO exists - approx. 50 percent of the system
8		u anticipate making improvements, what is me (e.g; 1 year, 3 yrs, 5 years)?	As new development occurs.	As funds become available
9	Do you have facilities?	any combined stormwater/sewer (CSO)	Yes, approximately half of the City's drainage system.	Yes- approx. 50 percent of the system
	Do you have	any plans to separate them?	Yes	Yes
10	water captu	a goal or an existing program for storm re and reuse, infiltration, or groundwater		No
	Are soil cond practical?	ditions such that infiltration or recharge is		There are a few areas in the southeast part of town sandy soils about 25% of that area demonstrates good percolation
12	What are the conveyance	e biggest constraints to stormwater ?	Flat land, intense storm events, and low infiltration rates.	Funding, and 2) new regulations i.e. MS4 Permit requirements. The City is not at a point where they can meet effluent limitations.
		Other Notes		Would like to apply for Flood Management Grants to improve stormwater systems Priority Projects 1) Separation of CSO 2) Master Drainage Plan

Brawley Wastewater Inventory

KNOWN CONDITIONS

UPDATED CONDITIONS

		KNOWN CONDITIONS	OPDATED CONDITIONS
	Plant:	City of Brawley WWTP	City of Brawley WWTP (2010)
	Interviewee:	Ruben Mireles	Yazmin Arellano/Gordan Gaste
Questions:	Date of Interview:	June 16, 2009	September 3, 2010
What is your p	rimary role?	Operations Division Manager	Public Works Director/Planning Director
Size of WWTP		5.9	5.9
	•	No, Currently at 4.0 MGD	Currently at 80 percent capacity
Are you under	any compliance requirements?	Yes, Cease and Desist Order from the Cal Regional Water Quality Control Board.	Yes, still under cease and desist order, however, they are in the process of upgrading plant to fullfil requirement set forth by RWQCE
	•	1460 million/year and 4.0 MGD.	same
What is your le	evel of treatment?	Primary (Plans to upgrade to secondary in a year)	Secondary
Any land dispo	sal or reuse?	No	same
		Maybe consider after planned treatment level improvements, depending on city growth. No need anticipated in near future.	No estimate available, but agreements are in place with ORMAT for future service
What level of tanticipated?	reatment and treatment process are	Improvements will consist of Secondary Treatment using wave oxidation process, and eventually to reclaim.	Secondary treatment
What is your p	lanning horizon?	Enable treatment facility to meet all the 2010 permit requirements, 2010 NPDES Permit is a five year permit	2030
1	-	Yes - 25 to 30 million within the next 3 years. Funds already committed? Yes -	Currently the Capital Improvement Plan identifies needs, however this should be updated by June 2011- WW Section of IRP.
When do you a	anticipate making upgrades, what is the	Less than one year	Whenever there is a need. Currently, the City has a deficit of funds.
Any plans for r	euse?		
		Yes, Industrial (see above).	
		Very good	very good- if funding is available
-		Environmental –CEQA process, have to look at impacts to River	
What are the b	piggest constraints to reuse?	Environmental and long term agreements	
	Other Notes		Upgrades to secondary treatment will be complete by December 2010; Funds for upgrade were derived from SRF Funds and \$10M from ARRA; Continuing discussions with ORMAT - Potential need to upgrade to tertiary treatment
	- **		Priority Projects Identified 1) Rehabilitation Station - Wet well and pump - \$500k 2) Expansion of WWTP Capacity - \$27M (currently at 80% capacity)
	Size of WWTP Any capacity is design capacity Are you under What were tot the plant in 20 What is your le Any land dispo What is the an capacity (Annu What level of tanticipated? What is your p Is there a plan investments w When do you a time frame (e.; Any plans for r Is there a curre Primarily Ag? From your permarket of trea Do you envisio with upgrading	Questions: Date of Interviewe: What is your primary role? Size of WWTP Any capacity issues; how close are you to the use of the design capacity? Are you under any compliance requirements? What were total and monthly annual total flows from the plant in 2008? What is your level of treatment? Any land disposal or reuse? What is the anticipated need and planned future design capacity (Annual total, monthly)? What level of treatment and treatment process are anticipated? What is your planning horizon? Is there a plan that identifies what future capital investments would be for the plant? When do you anticipate making upgrades, what is the time frame (e.g; 1 year, 3 yrs, 5 years)? Any plans for reuse? Is there a current or future market for WWTP flows? Primarily Ag? Industrial? Etc. From your perspective, what do you envision the future market of treated wastewater effluent would be? Do you envision any regulatory constraints associated with upgrading effluent quality to meet a new market? What are the biggest constraints to reuse?	What is your primary role? Size of WWTP S.9

Brawley Potable Water Inventory

Known Conditions

Updated Conditions

_			Known Conditions	Opdated Conditions
		Location	City of Brawley	City of Brawley
		Interviewee:		Yazmin Arellano/Gordan Gaste
	Questions:	Date of Interview:		9/3/2010
1	What is you	r primary role?		Public Works Director/Planning Director
	Data curren		2006	9/3/2010
		tment capacity is XXMGD?	15MGD	15MGD
2	Current raw	water storage capacity?	0.25MG + 3.00MG + ??MG reservoir	35 MG
-		water pump station capacity?		
		r water storage capacity?	9MGD	9 MGD
		r water pump station capacity?	16875gpm	22,5000 gpm, have another smaller facility 4,800 gpms
3		rage Daily Demand (ADD)?	8.4MGD	8.4 MGD
	-	kimum Day Demand? at Peak Hour?	12.6MGD (MDD); 23400gpm(PHD)	same
	Do you have	a model of the existing distribution system?	(Implied but not stated - SAP Pg. 4-63)	NO
	Current syst	em deficiencies (low pressure/low flow/WQ)?		Plus need more raw water storage and eliminatation of bottlenecks within the system
4	•		pipes (~39% of system)	to balance system pressue
"	Types of pip	e in system	Cast Iron(~39%), Asbestos Cement(~41%), PVC(~20%)	same
	D			Programs identified in the Master Plan have not been implemented as a result of lack
	Program for	replacing old/damaged pipe reaches?	1999 Water Master Plan	money
	Future treat	ment capacity is XXMGD?	30MGD	
	Future raw v	water storage capacity?	8.8MG	52 MG
5	Future raw	water pump station capacity?		2,8000 GPM
	Future clear water storage capacity?		15.0MG	
	Future clear	water pump station capacity?		45,000 GPM
	Future Aver	age Daily Demand (ADD)?	16MGD	
6	Future Maxi	mum Day Demand? at Peak Hour?	24MGD(MDD); 44400gpm(PHD)	
"	Future Maxi	mum Day Demand at Peak Hour plus Fire		
	Conditions?			
	Is there a ni	an that identifies future capital investments for	Yes. See 1999 Water Master Plan, Brawley SAP -	
		nt facility and/or the distribution system?	Page 4-64 and 4-67, and/or Development	Current Master Plan is outdated, and the City will be advertising soon to update the
7	(Conoral Dia	n, Master Water Plan, Service Area Plan, etc.)	Impact Fee (DIF) Study	Master Plan in the form of an IRP including WW, DW, and SW facilities.
'	,	· · · · · · · · · · · · · · · · · · ·		
	When do yo	u anticipate making upgrades/improvements,	Phased: PhI - 1999-2009, PhII - 2010-2014, PhIII -	20
	what is the	time frame (e.g; 1 year, 3 yrs, 5 years)?		20 yrs.
8	What is you	r planning horizon?	development occurs 2025	2030
9		rocedure for drought/low supply conditions?		none
10		event of a disaster/emergency?		no
				2005 UWMP completed, 2010 UWMP has been submitted and was completed by
	Other Notes			Dynamic Engineering. No Emergency Response Plan Exists; currently have 4-day
				supply. No Interconnections or redundencies exist within system. Priority Projects Identified -
				1) 86th St. Water Line Replacement Project
				Expand raw water storage capacity/add water pump at water plant
				3) Andrata Place Area Improvement Project
				4) Additional Water Reservoir and Pumping Station
				5) Main St. Water Line Replacement
Щ.				

Stormwater Inventory

Updated Conditions Known Conditions Plant: City of Calexico City of Calexico Interviewee: Questions: Date of Interview: 1 What is your primary role? 2 What are your land use policies as they relate to flood Is there a plan that identifies future capital investments for stormwater? 4 Do you have a Master Drainage/Stormwater Plan? Do you have design criteria pertaining to stormwater management facilities? If so, what design storm return frequency is required (100-yr, 50-yr, 10-yr, etc.)? Do you have an electronic model of the storm drain system and/or floodplain (if near a river)? Does your existing storm drain system have adequate conveyance capacity to provide flood protection? If not, have you identified any locations where flooding, conveyance, etc. has been or has become an issue? When do you anticipate making improvements, what is the time frame (e.g; 1 year, 3 yrs, 5 years)? Do you have any combined stormwater/sewer (CSO) 9 facilities? Do you have any plans to separate them? Do you have a goal or an existing program for storm water capture and reuse, infiltration, or groundwater recharge? Are soil conditions such that infiltration or recharge is 12 What are the biggest constraints to stormwater Other Notes

Wastewater Inventory

KNOWN CONDITIONS UPDATED CONDITIONS Plant: City of Calexico City of Calexico Interviewee Questions: Date of Interview: What is your primary role? Size of WWTP Any capacity issues; how close are you to the use of the design capacity? Are you under any compliance requirements? What were total and monthly annual total flows from the plant in 2008? What is your level of treatment? Any land disposal or reuse? What is the anticipated need and planned future design capacity (Annual total, monthly)? What level of treatment and treatment process are anticipated? What is your planning horizon? Is there a plan that identifies what future capital investments would be for the plant? When do you anticipate making upgrades, what is the time frame (e.g; 1 year, 3 yrs, 5 years)? Any plans for reuse? Is there a current or future market for WWTP flows? Primarily Ag? Industrial? Etc. From your perspective, what do you envision the future market of treated wastewater effluent would be? Do you envision any regulatory constraints associated 10 with upgrading effluent quality to meet a new market? What are the biggest constraints to reuse? Other Notes

Potable Water Inventory

Known Conditions Updated Conditions

	Location	City of Calexico	City of Calexico
	Interviewee:		
Questions:	Date of Interview:		
1 What is yo	ur primary role?		
Data curre	nt as of?		
Current tre	eatment capacity is XXMGD?		
Current rav	w water storage capacity?		
2 Current rav	w water pump station capacity?		
Current cle	ar water storage capacity?		
Current cle	ear water pump station capacity?		
Current Av	erage Daily Demand (ADD)?		
3 Current Ma	aximum Day Demand? at Peak Hour?		
Do you hav	ve a model of the existing distribution system?		
4 Current sys	stem deficiencies (low pressure/low flow/WQ)?		
	pe in system		
Program fo	or replacing old/damaged pipe reaches?		
Future trea	atment capacity is XXMGD?		
Future raw	water storage capacity?		
	water pump station capacity?		
Future clea	ar water storage capacity?		
Future clea	r water pump station capacity?		
	rage Daily Demand (ADD)?		
6	ximum Day Demand? at Peak Hour?		
Future Ma: Conditions	ximum Day Demand at Peak Hour plus Fire ?		
the treatm	olan that identifies future capital investments for ent facility and/or the distribution system? lan, Master Water Plan, Service Area Plan, etc.)		
When do y	ou anticipate making upgrades/improvements,		
8 What is yo	ur planning horizon?		
9 Mitigation	procedure for drought/low supply conditions?		
10 Plan in the	event of a disaster/emergency?		
	Other Notes		

Stormwater Inventory

Known Conditions Updated Conditions

			Known Conditions	Updated Conditions
		Plant:	City of Calipatria	City of Calipatria
		Interviewee:		Justina Arce
	Questions:	Date of Interview:		
1	What is you	r primary role?		Senior Planner for the Holt Group
2	What are yo	our land use policies as they relate to flood		
3	Is there a pla for stormwa	an that identifies future capital investments iter?	No. Dependent upon future construction.	
4	Do you have	e a Master Drainage/Stormwater Plan?	Yes.	
5	Do you have design criteria pertaining to stormwater management facilities?		No.	
	(100-yr, 50-y	lesign storm return frequency is required yr, 10-yr, etc.)?		
6		e an electronic model of the storm drain 'or floodplain (if near a river)?		
7		xisting storm drain system have adequate capacity to provide flood protection?	Adequate for light rainfall events, but inadequate for 25-year storm event.	
	-	you identified any locations where flooding, , etc. has been or has become an issue?	Numerous areas of puddling, ponding, and inundation of low lying areas.	
8	-	u anticipate making improvements, what is me (e.g; 1 year, 3 yrs, 5 years)?	As development occurs.	
9	,	any combined stormwater/sewer (CSO)	None mentioned.	
	Do you have	e any plans to separate them?		
10	water captu recharge?	e a goal or an existing program for storm re and reuse, infiltration, or groundwater	Retention basins expected to infiltrate water into ground.	
	Are soil con	ditions such that infiltration or recharge is	Yes.	
12	What are th conveyance	e biggest constraints to stormwater ?	Many paved street sections w/in the City have been constructed w/out consisten design parameters. Curb, gutter, cross gutter, storm drains, channels, and swales are either non-existant or ineffectively applied.	
Other Notes		Other Notes		Develop Stormwater Management Plan

Wastewater Inventory

KNOWN CONDITIONS

UPDATED CONDITIONS

	-		Micouri Constitutions	0.2/1.2/00/12/10/10
		Plant:	City of Calipatria	City of Calipatria
			Ruben Mireles	Justina Arce
	Questions:	Date of Interview:	June 16, 2009	August 18, 2010
1	What is your p	rimary role?	Chief Plant Operatory - oversee operation requirements as well as	Senior Planner for the Holt Group
_		,	correspondence on the administrative side.	'
	Size of WWTP		1.73	1.73
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		No issues had been 1 MGD for 3 or 4 years. Most comes wastewater treated at	
			the plant comes from Calipatria state prison and the prison recently installed a lot	
2	design capacit	y?	of water reducing devices (toilets, shower heads, etc) so since (about 5-6 most	
-			recent months) average flow has been about 0.75 MGD.	
			Cyanide problem in past – investigated, concluded laboratory error. For last two	
	Are you under	any compliance requirements?	years have been in compliance but region board wants prelim design for	
			upgrading to secondary treatment with eventual reclamation – currently working	
	What were tot	al and monthly annual total flows from	on prelim design report 1 MGD for 2008 and for few years prior last 5 to 6 months dropped to 0.75 MGD	
3	the plant in 20		and expected to stay at this level (see #2 response)	
4	What is your le	evel of treatment?	Primary – starting prelim design for upgraded to secondary.	
4	Any land dispo	sal or reuse?	No	
5	What is the an	ticipated need and planned future design	None at this time.	
6	What level of t	reatment and treatment process are	Secondary	
7	What is your p	lanning horizon?	Dependant on prelim designed report and funding opportunities.	
	Is there a plan	that identifies what future capital	No funding identified or committed yet.	
8	•	anticipate making upgrades, what is the g; 1 year, 3 yrs, 5 years)?	Probably within 3-5 years for upgraded to secondary treatment.	
	Any plans for r		There has been discussion to consider reclamation.	
	Is there a curre	ent or future market for WWTP flows?	Not that aware of – City manager may be aware of something.	
		Industrial? Etc.	There had been some talk with an Ethanol plant at one point.	
9	, ,	spective, what do you envision the future ted wastewater effluent would be?	Could be either for Ag use or possibly industrial.	
	with upgrading	on any regulatory constraints associated g effluent quality to meet a new market?	Environmental but because discharge to drain there may be less impact or considerations needed	
	What are the b	piggest constraints to reuse?		
	Other Notes			Priority Projects include:
				Wastewater collection system replacement throughout the city.
				Development of a Wastewater Management Plan

Potable Water Inventory

Known Conditions Updated Conditions

			Known Conditions	Updated Conditions
		Location	Calipatria-Niland-Prison	Calipatria-Niland-Prison
		Interviewee:		David Godsey
	Questic	ons: Date of Interview:		
1	What	is your primary role?		Local Operations Superintendent
	Data	current as of?	Treatment - 2006; Demand - 2005	10/27/2010
	Curre	nt treatment capacity is XXMGD?	6MGD	6MGD
١,	Curre	nt raw water storage capacity?	9.0MG	9MG
2	Curre	nt raw water pump station capacity?	3500GPM	3500 GPM
	Curre	nt clear water storage capacity?	4.0MG	3-5 day max
	Current clear water pump station capacity?		5500gpm	
2	Curre	nt Average Daily Demand (ADD)?	2.5MGD	
L	Curre	nt Maximum Day Demand? at Peak Hour?	3.3MGD(MDD); 4000gpm(PHD)	
	Do yo	u have a model of the existing distribution system?		
1	Curre	nt system deficiencies (low pressure/low flow/WQ)?		No Issues
4		of pipe in system		
	Progra	am for replacing old/damaged pipe reaches?		Maintenance program
		e treatment capacity is XXMGD?	8.0MGD	
	Future	e raw water storage capacity?	9.0MG	
5	Future	e raw water pump station capacity?		
	Future	e clear water storage capacity?	4.0MG	8MG
		e clear water pump station capacity?	5500gpm	
		e Average Daily Demand (ADD)?	3.6MGD	
6	Future	e Maximum Day Demand? at Peak Hour?	4.7MGD(MDD); 6000gpm(PHD)	
"	Future	e Maximum Day Demand at Peak Hour plus Fire		Fire testing by CH2MHill
	Condi	tions?		THE COURT BY CHARMIN
	Is the	re a plan that identifies future capital investments for		
_	the treatment facility and/or the distribution system?			Emergency Response Plan
7		ral Plan, Master Water Plan, Service Area Plan, etc.)		
	\M/hen	do you anticipate making upgrades/improvements,		
0		is your planning horizon?	2025	
		ation procedure for drought/low supply conditions?	2023	
		n the event of a disaster/emergency?		
10	, i iaii ii	and event of a disastery emergency:		
		Other Notes	Owned onerated and funded by Southern	Engaging in THM mitigation due to tank and pipeline arrangement. City is at the far end of the system. Scada system may help with THM as there is more control with
		555.65	and Niland	how/where water is distributed. Funding not really available due to the fact that Golden State Water (private company) owns the distribution and treatment facilities.

Known Conditions Updated Conditions

		Plant:	City of El Centro	City of El Centro
		Interviewee:		Terry Hagen/Norma Villacana/Randy Hines
(uestions:	Date of Interview:		
1	What is your primary role?			City Engineer/ Planning and Zoning Director/ Plant Supervisor
2	What are yo	our land use policies as they relate to flood		Based on Density
3	Is there a pl	an that identifies future capital investments iter?	No. Dependent upon construction.	Yes, currently being developed
4	Do you have	e a Master Drainage/Stormwater Plan?	No	Draft is complete, but no funding available.
5	Do you have managemer	e design criteria pertaining to stormwater nt facilities?	No.	Retention basin standards: 100yr storm contained and discharged to IID drains over 3 days. General rule is 1ac@4in deep for every 16 acres of development. No collection criteria. Operate under general CA water law
		lesign storm return frequency is required yr, 10-yr, etc.)?		
6		e an electronic model of the storm drain 'or floodplain (if near a river)?		Carollo hired a sub-consultant o do hydrological study.
7		xisting storm drain system have adequate capacity to provide flood protection?		Absolutely not
		you identified any locations where flooding, , etc. has been or has become an issue?		Identified in Master Plan. Staff will send to GEI.
8		u anticipate making improvements, what is me (e.g; 1 year, 3 yrs, 5 years)?	As development occurs.	When funds are available.
9	Do you have facilities?	e any combined stormwater/sewer (CSO)	None mentioned	No. Infiltration causes problems at WW plant. Not a stormwater problem. Water table is at ~8ft
	Do you have	e any plans to separate them?		
10	-	e a goal or an existing program for storm re and reuse, infiltration, or groundwater	None mentioned	Currently capture and discharge to IID drains. Would need to evaluate based on economics
	practical?	ditions such that infiltration or recharge is		No. Soil conditions are not condusive to infiltration. Mostly clays with high water table.
12	12 What are the biggest constraints to stormwater			Funds
	Other Notes			To implement Master Plan, would need ~\$200M for stormwater portion. There is lots of surface drainage. Quite a bit of the flooding is caused by ag land. A regional stormwater management facility is a high priority w/IID. Regional facility would push MP requirement off 15-20 years.

KNOWN CONDITIONS

			KNOWN CONDITIONS	OPDATED CONDITIONS
		Plant:	El Centro Municipal WWTP	El Centro Municipal WWTP
		Interviewee:	Randy Hines	Terry Hagen/Norma Villacana/Randy Hines
	Questions:	Date of Interview:	June 18, 2009	October 27, 2010
1	What is your p	rimary role?	Plant Supervisor	City Engineer/ Planning and Zoning Director/ Plant Supervisor
	Size of WWTP		8	8
	Any capacity is:	sues; how close are you to the use of the	No issues at this time, using about 3.6 MGD.	No capacity issues
2			Yes and no – Have some compliance issues with selenium and are expecting the	No major or consistent problems. Occasionally out of compliance. General
	Are you under	any compliance requirements?	board to issue cease and desist or time schedule order that will force them to take	operational constraints
3	What were tot	al and monthly annual total flows from	action. Would say 3.6 MGD average for 2008.	3.6MGD average
	What is your le	vel of treatment?	Secondary with UV disinfection	Secondary w/ UV disinfection
4	Any land dispo		No	Nn
5	What is the an	ticipated need and planned future design	None at this time.	None
6	What level of t anticipated?	reatment and treatment process are	No change planned at this time, have had few people approaching to increase – no plans on the table.	Looking to update for odor control for the existing plant
7		anning horizon?	Lock planning into 5 year increments, current one to 2011 or 2012.	Same
		that identifies what future capital	Have a 5 year capital improvement plan which they will be taking to council at the	Capital Improvement funding would be needed to update collection and plant
۰	1	ould be for the plant?	end of the summer. No money committed yet.	upgrades for odor control. Completed, but not currently approved. No specific date anticipated.
8	When do you anticipate making upgrades, what is the		Most is repairs to existing pipeline and collection system. Little identified for	Upgrades to collection or WWTP dependent upon development impact fees,
	time frame (e.g	g; 1 year, 3 yrs, 5 years)?	plant and what is maintenance.	infrastructure and reimbursement agreements.
	Any plans for re	euse?	There has been some discussion in the City internally but no push.	Have been in talks with ORMAT to make improvements to upgrade to tertiary so effluent can be delivered to ORMAT. Just in talks currently. Timeline on ORMAT project is 36 mo. Other ideas involve running purple pipe to highway dividers, parks, schools, and or solar farms.
9	Is there a curre Primarily Ag? I	nt or future market for WWTP flows? ndustrial? Etc.	Have had interest expresses by geothermal plants. Irrigation also an options	Geothermal, public land irrigation, solar farms
	, ,	spective, what do you envision the future ted wastewater effluent would be?	Don't see until raw water comes up in costs. Can't compete.	
10	-	n any regulatory constraints associated effluent quality to meet a new market?	No, believe and understand it will be easier than complying with permit.	Title 22 Standards
	What are the biggest constraints to reuse?		Has been mostly cost issues/consideration. Last heard, to get to Title 22 would need to charge \$500 an acre foot to make up costs and can't compare to with \$17 and \$20 per acre foot currently available.	
	Other Notes			Project in mind is to reduce the odor caused by WWTP which drifts into the development adjacent to WWTP. Would be ~\$400k\$500k. Tertiary treatment for delivery to ORMAT also discussed. Regionalized plants are not of an interest to City of FL Centro.

Known Conditions

			Known Conditions	Updated Conditions
		Location	City of El Centro	City of El Centro
		Interviewee:		Terry Hagen/Norma Villacana/Randy Hines
	Questions:	Date of Interview:		
1	What is you	r primary role?		City Engineer/ Planning and Zoning Director/ Plant Supervisor
	Data curren	t as of?	Treatment - 2006; Demand - 2004	27-Oct-10
	Current trea	ntment capacity is XXMGD?	18MGD	21MGD + 16MGD Standby
	Current raw	water storage capacity?		2 - 20-21MG Tanks ~40MG: Winter-~5day supply; Summer ~2.5day supply
2	Current raw	water pump station capacity?		
	Current clea	or water storage capacity?	10MG + 5MG (Total 15MG)	Lost 5MG tank to earthquake, so only 10MG currently. Add another 4MG by July of 2011
	Current clea	r water pump station capacity?	18000gpm	
2	Current Ave	rage Daily Demand (ADD)?	7.8MGD	7.8MGD
3	Current Max	ximum Day Demand? at Peak Hour?	12.5MGD(MDD); 21700gpm(PHD)	Same
	Do you have	e a model of the existing distribution system?		Have access to distribution system model (maintained by Carollo Engineers)
				Not currently, master plan would identify potential issues. Single-source non-looped
4	Current syst	em deficiencies (low pressure/low flow/WQ)?		system 20in to the regional mall. Would require ~\$2M. Carollo may have some
-	T f i	a to a set our		improvement ideas based on their model runs.
	Types of pip			Newer pipe is PVC; Oler pipe is mostly AC with some Cast Iron.
		replacing old/damaged pipe reaches?	2014CD	No program; pipes replaced as they fail.
	Future treatment capacity is XXMGD? Future raw water storage capacity?		38MGD	63MGD (Entire General Plan buildout assumed)
-				Want 10-day supply at peak summer ~630MG
5		water pump station capacity?	20140	20140
		water storage capacity?	20MG	60MG
	-	water pump station capacity?	18000gpm	Same
		age Daily Demand (ADD)?	11.9MGD	Same
6		mum Day Demand? at Peak Hour?	29.7MGD (MDD), 24800gpm(PHD)	Same
	Future Maxi Conditions?	mum Day Demand at Peak Hour plus Fire		
7	the treatme	an that identifies future capital investments for nt facility and/or the distribution system? in, Master Water Plan, Service Area Plan, etc.)	Water and Wastewater Master Plan Amendment-March2004, May 2004 CIP Report	Yes, but they are currently workin on it.
	When do you anticipate making upgrades/improvements,		Phased: 2005-2009, 2010-2014, 2019-2025	Same
8	What is you	r planning horizon?	2025	
9	Mitigation p	rocedure for drought/low supply conditions?		
10	Plan in the 6	event of a disaster/emergency?		Yes, they have one. Not available/confidential.
		Other Notes		Currently only a single line out to mall. Would like to provide looped system; provide
				some fire storage for the mall.

Known Conditions Updated Conditions

		known Conditions	Updated Conditions
	Plant:	Heber PUD	Heber PUD
	Interviewee:		John A. Jordan
Questions:	Date of Interview:		Thursday October 28, 2010 (10:00 AM)
	ır primary role?		General Manager
2 What are you control?	our land use policies as they relate to flood		We are a Special Dist. (under County jurisdiction)
3 Is there a p for stormw	lan that identifies future capital investments ater?		Town of Heber Drainage Master Plan (Nolte - 2006)
4 Do you hav	e a Master Drainage/Stormwater Plan?		Town of Heber Drainage Master Plan (Nolte - 2006)
manageme	e design criteria pertaining to stormwater nt facilities?		As outlined in County of Imperial Planning & Development guidelines.
	design storm return frequency is required -yr, 10-yr, etc.)?		As outlined in County of Imperial Planning & Development guidelines.
161 '	e an electronic model of the storm drain /or floodplain (if near a river)?		I don't know - have to ask Imperial County Public Works Dept. (760-482-4462).
1 1 '	existing storm drain system have adequate e capacity to provide flood protection?		Yes. Refer to Town of Heber Drainage Master Plan (Nolte - 2006).
If not, have	you identified any locations where flooding, e, etc. has been or has become an issue?		N/A.
1 X I	ou anticipate making improvements, what is ame (e.g; 1 year, 3 yrs, 5 years)?		HPUD has no improvements planned - refer to County of Imperial Public Works (760-482-4462).
Do you hav 9 facilities?	e any combined stormwater/sewer (CSO)		HPUD does not - don't know about County of Imperial Public Works.
Do you hav	e any plans to separate them?		N/A.
1 1 -	e a goal or an existing program for storm ure and reuse, infiltration, or groundwater		HPUD does not - don't know about County of Imperial Public Works.
Are soil cor practical?	ditions such that infiltration or recharge is		Don't know - refer to Imperial County Public Works (760-482-4462).
12 What are th	ne biggest constraints to stormwater		Connection to IID drain ditches.
	Other Notes		Stormwater was covered under the Town of Heber Drainage Master Plan (Nolte - 2006) that was commissioned by Imperial County PW.

KNOWN CONDITIONS

			KNOWN CONDITIONS	OI DATED CONDITIONS
		Plant:	Heber PUD WWTP	Heber PUD WWTP
		Interviewee:	Graciela Lopez	John A. Jordan
	Questions:	Date of Interview:	June 17, 2009	Oct. 28, 2010
1	What is your pr	rimary role?	Heber PUD Finance Manager	General Manager
	Size of WWTP		0.81 (Plant built in 2000)	When the plant was originally constructed it had a capacity of .81MGD. During our expansion project it was discovered that the plant only has a current capacity of .65MGD (this is because of design).
	Any capacity iss design capacity	sues; how close are you to the use of the ?	No capacity issues at this time, average of about 0.5 MGD	HPUD currently has an average dailey capacity of .5MGD.
	Are you under	any compliance requirements?	No compliance issues at this time. Previously, up to about a year ago, had compliance issues with E-coli. Started having problems when reached 0.6MGD, especially in Winter (slower sludge drying) solution is in place now - geotube in place along with few other changes	Most pressing issue is lack of funding for the expansion/construction of the planned new WWTP (upgrade treatment and expand to 1.2MGD capacity).
3	What were tota the plant in 200	al and monthly annual total flows from 08?	Believes between 0.5 MGD and less. Summer typically higher than winter.	Currently the avg. daily flow is .5MGD.
4	-	vel of treatment?	Currently Primary. Have plans to upgrade to secondary but also trying to get tertiary water but will be if get contract with Ormat.	<- Refer to Graciela Lopez' answer.
	Any land dispos	sal or reuse?	No	No.
5		cicipated need and planned future design al total, monthly)?	Project plan, full design completed, is to go to 1.2 MGD capacity. Have applied for funds already with different agencies (difficult to charge customers more), cost expected to be about 12.5 million dollars.	<- Refer to Graciela Lopez' answer.
6	What level of to anticipated?	reatment and treatment process are	Secondary with ultraviolent.	<- Refer to Graciela Lopez' answer.
7	What is your pl	anning horizon?	2016	Sort of an open question - planning horizion for what? Raw sewage collection, treatment or discharge?
	-	that identifies what future capital ould be for the plant?	For current plan have applied for funding with several agencies including USDA and pre-application in to state revolving fund. Tomorrow, Thursday June 18th, there is public hearing to get rate increase approved.	<- Refer to Graciela Lopez' answer.
8	· ·	nticipate making upgrades, what is the g; 1 year, 3 yrs, 5 years)?	Plan to start build in 2010 or 2011 - Depends on financing. Expect upgrades to be completed in 18 months once started.	Any expansion/construction depends on financing. The current planned project can't be done in phases and this creates a special financing problem. Without financing to do the entire project HPUD may have to do some temporary upgrades to meed regulatory requirements until full funding can be obtained.
9	Any plans for reuse?		Currently in discussion with Ormat, who is considering using reclaimed water for their cooling towers. Heber has submitted quality of water information to Ormat. They are looking for money but it is expected they will get it. If it does not work out with Ormat still under consideration to try to reuse water for irrigations of parks.	<- Refer to Graciela Lopez' answer.
	Is there a curre Primarily Ag? I	nt or future market for WWTP flows? ndustrial? Etc.	Yes (see above)	Yes. Currently negotiating with local energy company. And at some time there wil be demand by other users.
		pective, what do you envision the future ewater effluent would be?		All treated WW will be reused in some way. Either by other entities, farming or municipal reuse (either by retreating for potable water or for parks etc.).
10	with upgrading	n any regulatory constraints associated effluent quality to meet a new market?	California has several regulations that would have an impact and there are sometimes "surprises" such as changes to stricter rules.	As long as there is an EPA and CalEPA there will be more regulations (not all of them good). Also controlled by State Water Board regulations.
	vviiat are trie b	iggest constraints to reuse? Other Notes	(Noted) Overall: John Jordan may have more information or details to add but is out of the office until Monday June 22nd.	

Known Conditions

	Location	Heber PUD	Heber PUD
	Interviewee:		John A. Jordan
Questions:	Date of Interview:		Thursday Oct. 28, 2010 (10:00 AM)
1 What is yo	our primary role?		General Manager
Data curre	ent as of?	2005	Oct. 28, 2010
Current tre	eatment capacity is XXMGD?	5.0MGD	2.0MGD
Current ra	w water storage capacity?		5.8 million gallons (raw water ponds) (see NOTE)
2 Current ra	w water pump station capacity?		1,400 GPM (see NOTE)
Current cle	ear water storage capacity?		5.5 million gallons (see NOTE)
Current cle	ear water pump station capacity?		1,500 GPM
Current Av	verage Daily Demand (ADD)?	1.1MGD	1.1MGD
Current M	aximum Day Demand? at Peak Hour?	2.8MGD(MDD); 3000gpm(PHD)	2.2MGD (MDD); 3,000GPM (PHD)
Do you hav	ve a model of the existing distribution system?	Yes - WaterCAD (Nolte Associates, Inc.)	Since 2004 all new developments have models. Currently completing a "Water Dist.
		Tes trace on a (trace resonances, many	Study" on the older sections of the Town (should be completed mid 2011)
			CDPH Permit is for 2MGD - we have exceeded that in the past two years. Current plans
4 Current sy	stem deficiencies (low pressure/low flow/WQ)?	Presure Drops, Fire flow below acceptable levels	to expand capacity to 6MGD in 3 phases. Phase 1 & 2 are complete and working on
			Phase 3. HPUD has no current WQ problems.
	ipe in system	AC, PVC, HDPE	AC, PVC & HDPE
<u> </u>	or replacing old/damaged pipe reaches?		Currently we only replace when breaks occur.
	atment capacity is XXMGD?	15.5MGD	Current design can be expanded up to 16MGD.
Future raw	v water storage capacity?		See NOTE
5 Future raw	v water pump station capacity?		See NOTE
Future clea	ar water storage capacity?		Future capacity will depend on future demand and expansion of construction.
Future clea	ar water pump station capacity?		See NOTE
Future Ave	erage Daily Demand (ADD)?	5.4MGD	Plant expansion plans are currently for 6MGD.
Future Ma	ximum Day Demand? at Peak Hour?	13.5MGD (MDD); 15000gpm(PHD)	After the current expansion project to 6MGD, the plant can be expanded up to 16MGD without major redisign.
Future Ma Conditions	ximum Day Demand at Peak Hour plus Fire		A 6MGD plant can actually put out 8MGD by exceeding our current "Permit Capacity".
the treatm	olan that identifies future capital investments for nent facility and/or the distribution system? lan, Master Water Plan, Service Area Plan, etc.)	Capital Improvements Plan	The current expansion project would meet HPUD demands for the next 15 years (maybe more - too many variables here).
· · · · · · · · · · · · · · · · · · ·	you anticipate making upgrades/improvements, e time frame (e.g; 1 year, 3 yrs, 5 years)?	2008, 2013, and 2018	The current expansion project is planned to be completed by the end of 2011. It was a 3 phase project and Phase 1 & 2 are already complete.
8 What is yo	our planning horizon?	2018	Sort of an open question - planning horizion for what? Raw water supply, water treatment or water distribution?
	procedure for drought/low supply conditions?		Our raw water supply is provided by IID. Municipal water supplies aren't usually affected by drought. Low raw water supply could be a problem but not likely unless a major catastrophic event occurs.
10 Plan in the	event of a disaster/emergency?		HPUD has an Emergency Response Plan.
	Other Notes		

	<u> </u>	<u>inventory</u>	Known Conditions	Updated Conditions
		Plant:	City of Holtville	City of Holtville
		Interviewee:		Justina Arce
_	uestions:	Date of Interview:		8/18/2010
1	What is you	primary role?		Senior Planner for the Holt Group
2	What are yo control?	ur land use policies as they relate to flood	Evaluate hazardous flood locations and inform the public and proposed developers.	The City has adopted development standards for stormwater need, no master plan (would cost approx. \$60k)
3	Is there a pla for stormwa	an that identifies future capital investments ter?	No. Dependent upon construction.	No. Developer driven.
4	Do you have	a Master Drainage/Stormwater Plan?		No
		design criteria pertaining to stormwater	Yes	No, there is no infrastructure
5		esign storm return frequency is required vr, 10-yr, etc.)?	None mentioned	100-year
6		an electronic model of the storm drain or floodplain (if near a river)?		No
	-	kisting storm drain system have adequate capacity to provide flood protection?	Several piped systems are undersized or do not funciton adequately. Majority of runoff is conveyed via gravity surface flow street system.	No
7		you identified any locations where flooding, etc. has been or has become an issue?		There are definitely areas in the community that flood. Primarily next to a school district where stagnant water pools as a result of lack of drains. Another issue is that about 60% flows into industrial area from a lack of a proper drainage and conveyance system. A preliminary engineering report identified a need for a large retention basin to prevent flooding ~ \$6M
8		u anticipate making improvements, what is me (e.g; 1 year, 3 yrs, 5 years)?	As development occurs	5-years or as funds become available
9	Do you have facilities?	any combined stormwater/sewer (CSO)	None mentioned.	Yes
	Do you have	any plans to separate them?		Yes
10	-	a goal or an existing program for storm re and reuse, infiltration, or groundwater	Yes. Some runoff directed to retention basins for infiltration, but most stormwater discharged to Alamo River	No
	Are soil cond	litions such that infiltration or recharge is	Yes	No.
12	What are th conveyance	e biggest constraints to stormwater		Major pipeline is non existant in a number of areas in community- also big need for a pump station. In town flows are adequate, outside of the center of town but within the city boundaries the conveyance systems are inadequate.
		Other Notes		Stormwater was covered under the Town of Heber Drainage Master Plan (Nolte - 2006) that was commissioned by Imperial County PW.

KNOWN CONDITIONS UPDATED CONDITIONS

		Plant:	City of Holtville Municipal WWTP	City of Holtville Municipal WWTP
		Interviewee:	Frank Cornejo	Justina Arce
	Questions:	Date of Interview:	June 23, 2009	August 18, 2010
1	What is your p	rimary role?	Waterworks Supervisor	Senior Planner for the Holt Group
	Size of WWTP		0.85	1.3 M
		ssues; how close are you to the use of the	Not at this time	No growth in the City of Holtville if there were any larger subdivsions hard
2	design capacit	ν?		pressed to service - able to serve 350 homes.
			In process of being issues a cease and desist for ammonia, heavy metals, few	Under cease and desist status. Grant awarded to make improvements to become
	Are you under	any compliance requirements?	other things that did not meet NPDES requirements.	compliant. \$ 1M grant from BECC. Need 50% matching funds. In violation due to pesticide infiltration from ag fields
	What were tot	al and monthly annual total flows from	Average flow of 0.6 to 0.65 MCD, been protty consistent for while	pesticide illiniti ation from ag neius
3		evel of treatment?	Average flow of 0.6 to 0.65 MGD – been pretty consistent for while. Currently Secondary with UV disinfection.	Socondany
4	Any land dispo		No, only NPDES permitted disposal.	Secondary
-	Arry lariu dispo	isal of reuse!		
	M/hat is the an	ticinated pood and planned future decima	Compliance order to bring facility to current and upcoming regulations. Working	
5		ial total, monthly)?	with firm who specializes in design of WWTP facilities. Staff currently working on securing funding and moving forward with planning and design. Will be	
	capacity (7 mile	iai totai, montiny,	presented to region board	
				City Engineer doesn't see how the implementation of RW will work - City Manager
6		treatment and treatment process are	treatment method – new process – will use activated sludge and perhaps	aggressively seeking alt channeling to Geothermal -Ormat. Also discussion of
	anticipated?		membranes leading to higher quality effluent.	treating enough so that IID could take it into canal system.
-			Would like to initially expand to 1.2 MGD then a final expansion to 1.8 MGD –	,
7	What is your p	lanning horizon?	phased expansion with timeline depends on funding	
			Staff working a various avenues included USDA, grants through American	No USDA proposed grants, BECC funded by EPA -partnership with NADVAC that
	Is there a plan that identifies what future capital investments would be for the plant?		Recovery Act, etc. A lot of paper submitted; believe some projects have got	covers 100% prelim design costs - 30% implementation - still gapsWWTP project
			annroval – mostly for corrections	City of Holtville Sanitary Sewer Outfall Project Not through the Amerian Recovery Act but through BECC. The grants have not been awarded construction funding.
8				Act but through blee. The grants have not been awarded construction funding.
	When do you :	anticipate making upgrades, what is the	Would like try to secure funding this year and looking towards end of year to	
	I	g; 1 year, 3 yrs, 5 years)?	move forward with design and perhaps by end of 2010 to start expansion to 1.2	Not by the end of 2010 but 2012.
		0, , , - , - , - , , -	MGD, realistically may be later.	
	Any plans for r	reuse?	Trying to schedule meeting with National Rural Water Association. Also will meet	
			to determine feasiblity of Holtville reuse alternative.	
9		ent or future market for WWTP flows?		City Manager seeking alt channeling to Geothermal -Ormat. Also discussion of
	Primarily Ag?			treating enough so that IID could take it into canal system.
		spective, what do you envision the future ted wastewater effluent would be?	Yes. Don't know how feasible is since will take a significant infrastructure –initial	
-			capital. Possibly regional approach	
		y constraints associated with upgrading y to meet a new market?	Concerns of heads butting, that is regs or rules conflicting between Department of Public Health and Regional Board.	
	ernaent qualit	, to meet a new market:		
			Funding – infrastructure needs to be in place - pipeline, etc. The Holtville WWTP Facility is pretty remote from town – surrounded by Ag fields and in order to	
10			pump in back to city or industry like geothermal plant would need lot of	
	What are the b	piggest constraints to reuse?	distribution infrastructure. As far as use on crops would depend on type of crop	
			farmers are planting or willing to plant (since considering application of current	
			treatment level - Secondary with disinfection).	
	ı		Note: Call was over bad Cell phone connection.	Justina will provide BECC Grant Application and Project Description.
		Other Nates		Priority Projects Identified
		Other Notes		1) Wastewater Collection System Improvements - \$3.3M
				2) Sewer Master Plan - \$75k

Known Conditions

			Kilowii Collultiolis	opuated Conditions
		Location	City of Holtville	City of Holtville
	ſ	Interviewee:		Justina Arce
	Questions:	Date of Interview:		18-Aug-10
1	What is you	r primary role?		Senior Planner for the Holt Group
	Data current	t as of?	2006	2010
	Current trea	tment capacity is XXMGD?	3.15MGD	
2	Current raw	water storage capacity?	11.3MG	City has 3 pond rehabilitation projects under a USDA grant. So far have repaired one pond - berms. Lined3 MGD daily demand - 3 days of storage
	Current raw	water pump station capacity?		
	Current clea	r water storage capacity?	1.5MG	2.4 MG Tank finished earlier this yearearthquake destroyed old 1.5 - now at 1.4
	Current clea	r water pump station capacity?		
3	Current Ave	rage Daily Demand (ADD)?	1.5MGD	3 MGD peak hours
٥	Current Max	kimum Day Demand? at Peak Hour?		
	Do you have	a model of the existing distribution system?		
4	Current syst	em deficiencies (low pressure/low flow/WQ)?	Fire flows and residual pressures at the Barbara Worth Country Club are not adequate. Cast Iron Piping (CIP) deteriorating. Valve and fire hydrant deficiencies.	No improvements to thisCity limits have undersized lines - poor fire flow.
	Types of pip	e in system	PVC, AC, CIP, AIP	
		replacing old/damaged pipe reaches?		
		ment capacity is XXMGD?	6.0MGD	
	Future raw v	vater storage capacity?		
5	Future raw v	vater pump station capacity?		
	Future clear	water storage capacity?	4.0MG + 1.0MG	
	Future clear	water pump station capacity?		
	Future Avera	age Daily Demand (ADD)?	1.9MGD	same - no major developments Inc. city limit is built out
6	Future Maxi	mum Day Demand? at Peak Hour?		
ь	Future Maxi Conditions?	mum Day Demand at Peak Hour plus Fire		
7	the treatme	an that identifies future capital investments for nt facility and/or the distribution system? n, Master Water Plan, Service Area Plan, etc.)	Water Master Plan	
	When do yo	u anticipate making upgrades/improvements,		
8	What is you	r planning horizon?	2020	2020 - storage capacity next year
9	Mitigation p	rocedure for drought/low supply conditions?		
10	Plan in the e	vent of a disaster/emergency?		
		Other Netes		Priority Projects Identified
		Other Notes		1) Master Water Plan - \$75k

Known Conditions Updated Conditions

			Known Conditions	Opdated Conditions
		Plant:	City of Imperial	City of Imperial
		Interviewee:		
ζ	uestions:	Date of Interview:		
1	What is you	primary role?		
2	What are yo	ur land use policies as they relate to flood		
3	Is there a pla for stormwa	an that identifies future capital investments ter?	No. Dependent upon construction	
4	Do you have	a Master Drainage/Stormwater Plan?		
	Do you have	design criteria pertaining to stormwater	Yes	
5		esign storm return frequency is required vr, 10-yr, etc.)?	100-yr	
6		an electronic model of the storm drain or floodplain (if near a river)?		
7		kisting storm drain system have adequate capacity to provide flood protection?	Yes, however City systems discharge to IID drains which were not sized for an urbanized watershed.	
	-	you identified any locations where flooding, etc. has been or has become an issue?	Detention/retention facilities used to restrict storm flows into IID drains.	
8	When do you anticipate making improvements, what is		As development occurs	
9	Do you have facilities?	any combined stormwater/sewer (CSO)	None mentioned.	
	Do you have	any plans to separate them?		
10		a goal or an existing program for storm re and reuse, infiltration, or groundwater		
	Are soil con	litions such that infiltration or recharge is		
12	12 What are the biggest constraints to stormwater			
Other Notes				

KNOWN CONDITIONS

			KNOWN CONDITIONS	0.222 00200
		Plant:	City of Imperial Water Pollution Control Plant	City of Imperial
		Interviewee:	Jackie Loper	
	Questions:		June 16, 2009	
1	What is your p	rimary role?	Maintenance Supervisor	
	Size of WWTP		Currently 2.4 MGD Capacity.	
2	Any capacity is design capacit	ssues; how close are you to the use of the y?	No, currently using about 1.4 to 1.6 MGD.	
	Are you under	any compliance requirements?	No.	
3	What were tot	al and monthly annual total flows from	Currently using about 1.4 to 1.6 MGD.	
4	What is your le	evel of treatment?	Secondary [with disinfection] Understanding from what told is that with changing regulations will be classified as grade 3 plant.	
	Any land dispo	sal or reuse?	No (all NPDES disposal)	
5		ticipated need and planned future design aal total, monthly)?	Most components of plant build for expansion to 5 MGD relatively easily.	
6	What level of tanticipated?	reatment and treatment process are	At the current plant the type and level of treatment will be similar to what's in use. The Keystone plant will be MBR treatment.	
7	What is your p	lanning horizon?	2010/2011 (before housing slowdown) currently 2011/2012 we need to have plans in place by these dates to allow for construction time in order to meet needs of the public by 2015.	
8		that identifies what future capital ould be for the plant?	The City currently has a rate study under way to address the current and future needs for both the existing plant as well as the Keystone plant.	
		anticipate making upgrades, what is the g; 1 year, 3 yrs, 5 years)?	All plans need to be in place in the next 3 years in order to have enough time for constructions, to be operational in time for the public needs.	
	Any plans for r	euse?	No, not with this facility. (City leading plans for Keystone/Mesquite Lake reclamation facility).	
9		ent or future market for WWTP flows? Industrial? Etc.	Currently there are no plans for the reuse water, but the City is working with prospective partner to develop the reuse and have a market for the reuse water by the time that the treatment plant [Keystone] is operational.	
		spective, what do you envision the future ted wastewater effluent would be?	Public or private reuse of the water i.e. Landscape, commercial or industrial uses.	
		on any regulatory constraints associated g effluent quality to meet a new market?	None at this time.	
	What are the b	piggest constraints to reuse?	Developing a viable and profitable market	
			Additions or corrections provided by Jackie June 15 th .	
		Other Notes		
		Other Notes		
-				

Known Conditions Updated Conditions

			Known Conditions	Updated Conditions
		Location	City of Imperial	City of Imperial
		Interviewee:		
	uestions:	Date of Interview:		
1	What is you	r primary role?		
	Data curren	t as of?	2008	
	Current trea	atment capacity is XXMGD?	7MGD	
2		water storage capacity?	10MG	
-	Current raw	water pump station capacity?	2 x 1.5MGD + 2 x 3.5MGD; Total of 10.0MGD	
	Current clea	r water storage capacity?	3 x 2.0MG; Total 6MG	
		r water pump station capacity?	3 x 3.6MGD; Total 10.8MGD	
3		rage Daily Demand (ADD)?	1.8	
	Current Max	kimum Day Demand? at Peak Hour?		
	Do you have	e a model of the existing distribution system?	Yes - BJ Engineering & Surveying Inc.	
4	Current syst	rem deficiencies (low pressure/low flow/WQ)?		
	Types of pip		AC(~46% of total system) and PVC	
	Program for	replacing old/damaged pipe reaches?		
	Future treat	ment capacity is XXMGD?	7MGD	
	Future raw v	water storage capacity?		
5	Future raw v	water pump station capacity?		
	Future clear	water storage capacity?	10MG	
	Future clear	water pump station capacity?		
	Future Aver	age Daily Demand (ADD)?	9.3MGD	
6	Future Maxi	mum Day Demand? at Peak Hour?		
	Future Maxi Conditions?	imum Day Demand at Peak Hour plus Fire		
7	the treatme (General Pla	an that identifies future capital investments for nt facility and/or the distribution system? In, Master Water Plan, Service Area Plan, etc.)	Master Plan for the Water Distribution System, May 2006	
		u anticipate making upgrades/improvements,	As development occurs	
		r planning horizon?	2030	
9	Mitigation p	procedure for drought/low supply conditions?		
10	Plan in the e	event of a disaster/emergency?		
		Other Notes		

Updated Conditions Known Conditions Plant: Niland Niland Interviewee: Questions: Date of Interview: 1 What is your primary role? What are your land use policies as they relate to flood control? Is there a plan that identifies future capital investments for stormwater? 4 Do you have a Master Drainage/Stormwater Plan? Do you have design criteria pertaining to stormwater management facilities? If so, what design storm return frequency is required (100-yr, 50-yr, 10-yr, etc.)? Do you have an electronic model of the storm drain system and/or floodplain (if near a river)? Does your existing storm drain system have adequate conveyance capacity to provide flood protection? If not, have you identified any locations where flooding, conveyance, etc. has been or has become an issue? When do you anticipate making improvements, what is the time frame (e.g; 1 year, 3 yrs, 5 years)? Do you have any combined stormwater/sewer (CSO) facilities? Do you have any plans to separate them? Do you have a goal or an existing program for storm water capture and reuse, infiltration, or groundwater 10 recharge? Are soil conditions such that infiltration or recharge is practical? What are the biggest constraints to stormwater conveyance? No stormwater system to speak of Other Notes

KNOWN CONDITIONS

_				KNOWN CONDITIONS	OPDATED CONDITIONS
			Plant:	Niland WWTP	Niland WWTP
		ļ l	Interviewee:	James Strang	David Godsey
	Ωı	uestions:			October 27, 2010
-		Vhat is your p			Local Operation Superintendent
-	_	ize of WWTP	initially role.	0.5	0.5
	<u> </u>			0.5	0.3
		esign capacity is:	sues; how close are you to the use of the \prime ?	No capacity issues, average flows of about 0.175 MDG to .18 MGD.	No capacity issues, average flows have dropped to about 0.08MGD
		re you under	any compliance requirements?	Recently got a Cease and Desist order from Regional Water Quality Control Board because of copper levels. Understand that have a couple of years to correct the problem.	Copper levels still an issue. Difficult to bring discharges into compliance as they have only primary level of treatment.
	- 3 I	What were tota ne plant in 200	al and monthly annual total flows from 08?	Average flows of about 0.175 to 0.18 MDG. A couple of years ago the collection system was rehabilitated – relined to correct groundwater infiltration problems – rehab reduced flows (prior to, about 3 years ago average was 0.23 to 0.24 MGD).	
	4 V	Vhat is your le	evel of treatment?	Primary – bar screen and ponds. Sodium hypochlorite for disinfection in contact chamber then chlorine neutralized before leaves plant.	No advanced bio; Ponds w/ flouridation/chlorination
	Α	ny land dispo	sal or reuse?	No	No.
			ticipated need and planned future design al total, monthly)?	None at this time – appears population has gone down since the number of connections has gone down.	
	6 V	Vhat level of t	reatment and treatment process are	No changes to treatment level or processes are planned at this time.	
	7 V	Vhat is your pl	lanning horizon?	"Poor right now, just trying to get by" – currently only 2 of 6 areas of the plant are operating, one pump's been down a while other just gave out so currently running a rental pump. Just received approval from USDA for grant money to get new lift station, bar screen and believe a new generator. Also getting some help from the County for aeration equipment.	
		•	that identifies what future capital ould be for the plant?	No real plan that aware of rely a lot on USDA and County help.	No. Though they got an Economic Development Department grant to help with infiltration issues. Liners were placed in the lines. No CIP for collection system.
	٧	Vhen do you a	inticipate making upgrades, what is the	This year for maintenance / new equipment discussed above.	
	А	ny plans for re	euse?	No plans currently but when they visited last, the Regional board recommended reuse when last visited. Indicated that will need to find another way to discharge water, not to Salton Sea- because regs are going to become more stringent over time and discharging to Sea would be harder.	
			ent or future market for WWTP flows? ndustrial? Etc.	Regional board recommended irrigation, possibly alfalfa or even just spraying out to dry/desert land behind plant – no benefit but alternative disposal	
			spective, what do you envision the future ted wastewater effluent would be?	If money was there to increase plant treatment level and set up distribution system then yes.	
:		-		Always regulations. Plant manager, David Godsey (455-3439), might have better information.	
L	٧	Vhat are the b	siggest constraints to reuse?		
			Other Notes		Niland SD may dissolve due to funding issues (residents not paying taxes that NSD receives their funding from). Key project may involve connecting Niland to Calipatria's WWTP
ᆫ					

Known Conditions Updated Conditions Location Niland Niland Interviewee Questions: Date of Interview 1 What is your primary role? Data current as of? Current treatment capacity is XXMGD? Current raw water storage capacity? Current raw water pump station capacity? Current clear water storage capacity? Current clear water pump station capacity? Current Average Daily Demand (ADD)? Current Maximum Day Demand? at Peak Hour? Do you have a model of the existing distribution system? 4 Current system deficiencies (low pressure/low flow/WQ)? Types of pipe in system Program for replacing old/damaged pipe reaches? Future treatment capacity is XXMGD? Future raw water storage capacity? 5 Future raw water pump station capacity? Future clear water storage capacity? Future clear water pump station capacity? Future Average Daily Demand (ADD)? Future Maximum Day Demand? at Peak Hour? Future Maximum Day Demand at Peak Hour plus Fire Conditions? Is there a plan that identifies future capital investments for the treatment facility and/or the distribution system? (General Plan, Master Water Plan, Service Area Plan, etc.) When do you anticipate making upgrades/improvements, what is the time frame 8 What is your planning horizon? 9 Mitigation procedure for drought/low supply conditions? 10 Plan in the event of a disaster/emergency? See Calipatria for Potable Water See Calipatria for Potable Water Other Notes

Known Conditions Undated Conditions

			Known Conditions	Updated Conditions
		Plant:	Seeley	Seeley
		Interviewee:		
ζ	uestions:	Date of Interview:		
1	What is you	r primary role?		
2	What are yo control?	ur land use policies as they relate to flood	Several areas directly adjacent to New River are subject to flooding. County has Flood Damage Prevention Ordinance.	
3	Is there a pla for stormwa	an that identifies future capital investments ter?		
4	Do you have	a Master Drainage/Stormwater Plan?		County owned.
5	Do you have managemen	design criteria pertaining to stormwater at facilities?		
5		esign storm return frequency is required yr, 10-yr, etc.)?		
6		an electronic model of the storm drain or floodplain (if near a river)?		
7		xisting storm drain system have adequate capacity to provide flood protection?		
		you identified any locations where flooding, etc. has been or has become an issue?		
8		u anticipate making improvements, what is me (e.g; 1 year, 3 yrs, 5 years)?		
9	Do you have facilities?	any combined stormwater/sewer (CSO)		
	Do you have	any plans to separate them?		
10		e a goal or an existing program for storm re and reuse, infiltration, or groundwater		
	Are soil cond practical?	ditions such that infiltration or recharge is		
12	What are the conveyance	e biggest constraints to stormwater ?		
	Other Notes			No stormwater system to speak of

KNOWN CONDITIONS

				0. 5/1125 CONDITIONS
		Plant:	Seeley County WWTP	Seeley County WWTP
		Interviewee:	Hector Orozco	Anthony Munger
	Questions:	Date of Interview:	June 24, 2009	October 28, 2010
1	What is your p	orimary role?	Chief Operator	
	Size of WWTP		0.2	Same
2	Any capacity is design capacity	ssues; how close are you to the use of the y?	Currently below capacity; 0.1 to 0.15 MGD.	Not full. Capacity @~50%
	Are you under	any compliance requirements?	Just standard NPDES requirements.	Standard NPDES Requirements
3	What were tot the plant in 20	tal and monthly annual total flows from 008?	As above around 0.1 to 0.15 MGD, more flow in winter.	Same
4		evel of treatment?	Secondary with UV disinfection.	Same
4	Any land dispo	osal or reuse?	No. NPDES permitted discharge only – to River.	Same
5		ticipated need and planned future designual total, monthly)?	No current plans for increasing capacity.	Current capacity meets anticipated need
6	What level of tanticipated?	treatment and treatment process are	Not that aware of.	None. In talking w/ solar project, they would pay to upgrade to tertiary treated water in exchange for receiving a certain amount of treated effluent.
7	What is your p	lanning horizon?	Not aware of, not involved with.	N/a
8		that identifies what future capital rould be for the plant?	No involved with – Sandra Esitgoy might be better contact for some of these questions (call main CWD number).	No Plan. Pipes fixed as they break.
8		anticipate making upgrades, what is the g; 1 year, 3 yrs, 5 years)?	N/A	
	Any plans for r	reuse?	No. Fine with how things are done right now, meeting requirements and have good communication with regional board.	Without solar project, no plans for reuse. W/ solar project, yes.
9	Is there a curre Primarily Ag?	ent or future market for WWTP flows? Industrial? Etc.	Not aware of any There are small parks in town	Yes. Water for SES Solar Two facility. Other possible users include existing development and new development.
	, ,	spective, what do you envision the future ted wastewater effluent would be?	Can't say.	Will provide 0.15 - 0.20 MGD of reclaimed water for use in construction and operation activities to SES Solar Two facility (non-potable only).
10		on any regulatory constraints associated g effluent quality to meet a new market?	No.	Title 22 Compliance. Plant will be upgraded by SES Solar Two facility in exchange for access to recycled water. If given the go-ahead, may be completed 2011-2012.
	What are the b	piggest constraints to reuse?	Would require more testing and treatment.	
			See "Aside" note under Holtville	No identified priority projects. Replacement of existing collection system
		Other Notes		

Known Conditions

1	uestions: What is you	Location Interviewee: Date of Interview:	Seeley	Seeley
1				A self-service A A conserve
1		Data of Intervious		Anthony Munger
	What is you	Date of interview.		
		r primary role?		
	Data current	t as of?	Capacity - 2006; Demand - 2003	40479
2	Current trea	tment capacity is XXMGD?	0.75MGD	Same
4	Current raw	water storage capacity?		2MG currently, though additional 5MG is being constructed
	Current raw	water pump station capacity?		600gpm
	Current clea	r water storage capacity?	0.90MGD	1.3MG will be available at the beginning of the year
	Current clea	r water pump station capacity?	2000gpm	Same
3	Current Ave	rage Daily Demand (ADD)?	0.245MGD	0.29 MGD
3	Current Max	rimum Day Demand? at Peak Hour?	0.567MGD (MDD); 850gpm(PHD)	No Record for Peak
	Do you have	a model of the existing distribution system?		Yes, there is a model
4	Current syst	em deficiencies (low pressure/low flow/WQ)?		Old pipes.
	Types of pip	e in system		AC
	Program for	replacing old/damaged pipe reaches?		Received a grant for pipe replacement. Will begin implementation Jan. 2011
	Future treat	ment capacity is XXMGD?		
	Future raw v	vater storage capacity?		
5	Future raw v	vater pump station capacity?		
	Future clear	water storage capacity?		2-500k gal tanks (1M gal total)
	Future clear	water pump station capacity?		
	Future Avera	age Daily Demand (ADD)?	0.426MGD	Same
	Future Maxi	mum Day Demand? at Peak Hour?	0.985MGD(MDD); 1500gpm (PHD)	Same
6	Future Maxi Conditions?	mum Day Demand at Peak Hour plus Fire		
	the treatme	an that identifies future capital investments for nt facility and/or the distribution system? n, Master Water Plan, Service Area Plan, etc.)	Master Plan for the Water Distribution System for the City of Westmoreland (Holt Group 1997)	Raw water ponds are in the process of being expanded and lined. Clear storage will have been upgraded by Jan 2011. Distribution system pipe replacement beginning Jan 2011.
	When do yo what is the t	u anticipate making upgrades/improvements, ime frame?		Last plan update was 2003.
8	What is you	r planning horizon?	2020	2020
9	Mitigation p	rocedure for drought/low supply conditions?		Community outreach is the only means of mitigation in drought/low supply/emergency conditions (post office, letters, etc.)
10	Plan in the e	vent of a disaster/emergency?		Secondary power source can run all treatment and distribution systems. If source is unavailable, El Centro or naval base could assist w/ emergency pipelines
		Other Notes		Distribution system replacements will begin Jan 2011.

Updated Conditions Known Conditions Plant: Westmoreland Westmoreland Interviewee: Questions: Date of Interview: 1 What is your primary role? 2 What are your land use policies as they relate to flood Is there a plan that identifies future capital investments for stormwater? 4 Do you have a Master Drainage/Stormwater Plan? Do you have design criteria pertaining to stormwater management facilities? If so, what design storm return frequency is required (100-yr, 50-yr, 10-yr, etc.)? Do you have an electronic model of the storm drain system and/or floodplain (if near a river)? Does your existing storm drain system have adequate conveyance capacity to provide flood protection? If not, have you identified any locations where flooding, conveyance, etc. has been or has become an issue? When do you anticipate making improvements, what is the time frame (e.g; 1 year, 3 yrs, 5 years)? Do you have any combined stormwater/sewer (CSO) 9 facilities? Do you have any plans to separate them? Do you have a goal or an existing program for storm water capture and reuse, infiltration, or groundwater 10 recharge? Are soil conditions such that infiltration or recharge is practical? What are the biggest constraints to stormwater conveyance? Other Notes

KNOWN CONDITIONS UPDATED CONDITIONS Westmoreland Westmoreland Plant: Interviewee Questions: Date of Interview: What is your primary role? Size of WWTP Any capacity issues; how close are you to the use of the design capacity? Are you under any compliance requirements? What were total and monthly annual total flows from the plant in 2008? What is your level of treatment? Any land disposal or reuse? What is the anticipated need and planned future design capacity (Annual total, monthly)? What level of treatment and treatment process are anticipated? What is your planning horizon? Is there a plan that identifies what future capital investments would be for the plant? When do you anticipate making upgrades, what is the time frame (e.g; 1 year, 3 yrs, 5 years)? Any plans for reuse? Is there a current or future market for WWTP flows? From your perspective, what do you envision the future market of treated wastewater effluent would be? Do you envision any regulatory constraints associated 10 with upgrading effluent quality to meet a new market? What are the biggest constraints to reuse? Other Notes

Known Conditions Updated Conditions

		Known Conditions	Opdated Conditions
	Location	Westmoreland	Westmoreland
	Interviewee:		
Questions:	Date of Interview:		
1 What is you	ur primary role?		
Data currei	nt as of?		
Current tre	eatment capacity is XXMGD?		
Current rav	w water storage capacity?		
2 Current ray	w water pump station capacity?		
Current cle	ar water storage capacity?		
	ar water pump station capacity?		
2	erage Daily Demand (ADD)?		
Current Ma	aximum Day Demand? at Peak Hour?		
Do you hav	re a model of the existing distribution system?		
	stem deficiencies (low pressure/low flow/WQ)?		
	pe in system		
	or replacing old/damaged pipe reaches?		
	ntment capacity is XXMGD?		
	water storage capacity?		
	water pump station capacity?		
	r water storage capacity?		
	r water pump station capacity?		
	rage Daily Demand (ADD)?		
6	kimum Day Demand? at Peak Hour?		
Future Max Conditions	ximum Day Demand at Peak Hour plus Fire ?		
the treatm	olan that identifies future capital investments for ent facility and/or the distribution system? lan, Master Water Plan, Service Area Plan, etc.)		
	ou anticipate making upgrades/improvements, time frame (e.g; 1 year, 3 yrs, 5 years)?		
	ur planning horizon?		
	procedure for drought/low supply conditions?		
10 Plan in the	event of a disaster/emergency?		
	Other Notes		
•			

Known Conditions Undated Conditions

			Known Conditions	Updated Conditions
		Plant:	Gateway of the Americas	Gateway of the Americas
		Interviewee:		Ed Delgado
Questi	ions:	Date of Interview:		10/28/2010
1 Wha	at is your	primary role?		Deputy Director of Public Works - Administration
2 Wha		ur land use policies as they relate to flood	Parking areas designed to pond to a depth of 6in. During storm events.	Same
1 3 1	iere a pla stormwat	n that identifies future capital investments ter?	No. Dependent upon construction	Same
4 Do yo	ou have	a Master Drainage/Stormwater Plan?	No.	Same
		design criteria pertaining to stormwater tfacilities?	Yes	Same
If so,		esign storm return frequency is required r, 10-yr, etc.)?	100-уг	Same
		an electronic model of the storm drain or floodplain (if near a river)?		
	-	risting storm drain system have adequate capacity to provide flood protection?	Yes	Same
If not		rou identified any locations where flooding, etc. has been or has become an issue?		
101		u anticipate making improvements, what is ne (e.g; 1 year, 3 yrs, 5 years)?	As development occurs	Same
1 1	Do you have any combined stormwater/sewer (CSO) facilities?		None mentioned.	None
Do yo	ou have	any plans to separate them?		
	er captur	a goal or an existing program for storm e and reuse, infiltration, or groundwater	Retention basins designed to infiltrate water into ground, or discharge to Ash Canal or Alamo River.	Same
	soil cond ctical?	litions such that infiltration or recharge is	Yes	Same
1121	at are the veyance?	e biggest constraints to stormwater		None
		Other Notes		

KNOWN CONDITIONS

_	-		KNOWN CONDITIONS	UPDATED CONDITIONS
	_		Gateway of the Americas WWTP	Gateway of the Americas WWTP
	-		Ed Delgado	Ed Delgado
	Questions:		June 18, 2009	October 28, 2010
1	What is your p	rimary role?	Administrative Analyst for County of Imperial.	Deputy Director of Public Works - Administration
	Size of WWTP		0.2	Same
2			Consideration of expansion – not yet close capacity but CHP facility wants to tie	Currently in Expansion Phase II
-	design capacity	y?	in, which would increasing required capacity. See question 8.	Currently in Expansion Finase in
	Are you under	any compliance requirements?	Not that aware of. None.	None
3	the plant in 20		Unsure, contracted operator – Rocky Vandergriff might know. Unknown. Don't have anything current, but a study from 2005 listed inflow at approximately 14,000 gallons per day as measured by water meter readings.	Approximately 14,000 GPD
4		evel of treatment?	No Sure. Filtration and ultraviolet light disinfection.	Same
	Any land dispo	sal or reuse?	No Sure.	None
5		ticipated need and planned future design al total, monthly)?	Planned to happen in phases, currently in phase one of three phases for plant expansion. Not sure of phase 2 or 3 size. Planned to happen in 5 phases, currently in phase one. Ultimate planned capacity to reach 1.5 MGD with daily operational flows around 1.0 to 1.1 MGD.	Same
6	What level of t anticipated?	creatment and treatment process are	Don't think any change in treatment level is planned. BIOLAC activated wastewater treatment lagoons, blower aeration chains, integral clarifiers, solar sludge dryer, backwashing filters. Ultraviolet lighting banks	Same
7	What is your p	lanning horizon?	Not sure. Several years dependent upon growth rate and funding.	Same
		that identifies what future capital ould be for the plant?	Not sure. One conducted in 2005; one rate study due to commence in 1-2 months.	Service Area Plan, 2005
8	When do you a	anticipate making upgrades, what is the g; 1 year, 3 yrs, 5 years)?	All contingent on funding – funding not yet identified. Will also be driven by growth rate of the area.	Currently in Expansion Phase II. Balance contingent on growth and funding.
	Any plans for r	reuse?	No sure.	None
9		ent or future market for WWTP flows? Industrial? Etc.	As part of prelim CHP tie-in study was consideration of using for irrigation. No other plans for reuse.	Same
9		spective, what do you envision the future ted wastewater effluent would be?	Don't envision in immediate future – for irrigation if anything	Same
10		on any regulatory constraints associated g effluent quality to meet a new market?	Not sure. Regulatory compliance could prove cost prohibitive and limit expansion. Biggest constraints to reuse include lack of practical knowledge in the area and costs.	Same
	What are the b	piggest constraints to reuse?		Same
		Other Notes	Additions or corrections provided by Ed (via email) June 23rd and June 24th. Also when plant operator available will ask about average flows and treatment level (current and furture)	

Known Conditions

			known Conditions	Opdated Conditions
		Location	Gateway of the Americas	Gateway of the Americas
		Interviewee:		Ed Delgado
	Questions:	Date of Interview:		28-Oct-10
1	What is you	primary role?		Deputy Director of Public Works - Administration
	Data curren	as of?	2007	2010
	Current trea	tment capacity is XXMGD?	.12MGD (as of 2005)	Same
2	Current raw	water storage capacity?	1.8MG	Same
2	Current raw	water pump station capacity?		
	Current clea	r water storage capacity?	1MG	Same
	Current clea	r water pump station capacity?		
2	Current Ave	rage Daily Demand (ADD)?		
3	Current Max	imum Day Demand? at Peak Hour?	0.95MGD	Same
	Do you have	a model of the existing distribution system?		
4	Current syst	em deficiencies (low pressure/low flow/WQ)?		Occassionalexceedance of water quality limits
	Types of pip	-		
	Program for	replacing old/damaged pipe reaches?		
	Future treat	ment capacity is XXMGD?		
	Future raw v	vater storage capacity?		
5	Future raw v	vater pump station capacity?		
	Future clear	water storage capacity?		
		water pump station capacity?		
	Future Aver	age Daily Demand (ADD)?		
6		mum Day Demand? at Peak Hour?	2.9MGD	Same
	Future Maxi Conditions?	mum Day Demand at Peak Hour plus Fire		
7	the treatme	an that identifies future capital investments for nt facility and/or the distribution system? n, Master Water Plan, Service Area Plan, etc.)		Service Area Plan, 2005
	•	u anticipate making upgrades/improvements, ime frame (e.g; 1 year, 3 yrs, 5 years)?		Currently undergoing Phse II expansion.
		planning horizon?	2025	Same
9	Mitigation p	rocedure for drought/low supply conditions?		N/A
10	Plan in the e	vent of a disaster/emergency?		
			Gateway SAP (pdf) had broken link error messages in place of most capacity values ("Error! Not a valid link.")	PDF of Service Area Plan available if desired

Known Conditions

			Known Conditions	Updated Conditions
		Location	City of El Centro	City of El Centro
		Interviewee:		Terry Hagen/Norma Villacana/Randy Hines
	Questions:	Date of Interview:		
1	What is you	r primary role?		City Engineer/ Planning and Zoning Director/ Plant Supervisor
	Data curren	t as of?	Treatment - 2006; Demand - 2004	27-Oct-10
	Current trea	ntment capacity is XXMGD?	18MGD	21MGD + 16MGD Standby
	Current raw	water storage capacity?		2 - 20-21MG Tanks ~40MG: Winter-~5day supply; Summer ~2.5day supply
2	Current raw	water pump station capacity?		
	Current clea	or water storage capacity?	10MG + 5MG (Total 15MG)	Lost 5MG tank to earthquake, so only 10MG currently. Add another 4MG by July of 2011
	Current clea	r water pump station capacity?	18000gpm	
2	Current Ave	rage Daily Demand (ADD)?	7.8MGD	7.8MGD
3	Current Max	ximum Day Demand? at Peak Hour?	12.5MGD(MDD); 21700gpm(PHD)	Same
	Do you have	e a model of the existing distribution system?		Have access to distribution system model (maintained by Carollo Engineers)
				Not currently, master plan would identify potential issues. Single-source non-looped
4	Current syst	em deficiencies (low pressure/low flow/WQ)?		system 20in to the regional mall. Would require ~\$2M. Carollo may have some
	T f i	a to a set our		improvement ideas based on their model runs.
	Types of pip			Newer pipe is PVC; Oler pipe is mostly AC with some Cast Iron.
		replacing old/damaged pipe reaches?	2014CD	No program; pipes replaced as they fail.
		· · · · · · · · · · · · · · · · · · ·	38MGD	63MGD (Entire General Plan buildout assumed)
-		water storage capacity?		Want 10-day supply at peak summer ~630MG
5		water pump station capacity?	20140	20140
		water storage capacity?	20MG	60MG
	-	water pump station capacity?	18000gpm	Same
		age Daily Demand (ADD)?	11.9MGD	Same
6		mum Day Demand? at Peak Hour?	29.7MGD (MDD), 24800gpm(PHD)	Same
	Future Maxi Conditions?	mum Day Demand at Peak Hour plus Fire		
7	the treatme	an that identifies future capital investments for nt facility and/or the distribution system? in, Master Water Plan, Service Area Plan, etc.)	Water and Wastewater Master Plan Amendment-March2004, May 2004 CIP Report	Yes, but they are currently workin on it.
	When do yo	u anticipate making upgrades/improvements,	Phased: 2005-2009, 2010-2014, 2019-2025	Same
8	What is you	r planning horizon?	2025	
9	Mitigation p	rocedure for drought/low supply conditions?		
10	Plan in the 6	event of a disaster/emergency?		Yes, they have one. Not available/confidential.
		Other Notes		Currently only a single line out to mall. Would like to provide looped system; provide
				some fire storage for the mall.

Known Conditions Updated Conditions

		Plant:	City of El Centro	City of El Centro
		Interviewee:		Terry Hagen/Norma Villacana/Randy Hines
(uestions:	Date of Interview:		
1	1 What is your primary role?			City Engineer/ Planning and Zoning Director/ Plant Supervisor
2	What are yo	our land use policies as they relate to flood		Based on Density
3	Is there a pl	an that identifies future capital investments iter?	No. Dependent upon construction.	Yes, currently being developed
4	Do you have	e a Master Drainage/Stormwater Plan?	No	Draft is complete, but no funding available.
5	Do you have managemer	e design criteria pertaining to stormwater nt facilities?	No.	Retention basin standards: 100yr storm contained and discharged to IID drains over 3 days. General rule is 1ac@4in deep for every 16 acres of development. No collection criteria. Operate under general CA water law
		lesign storm return frequency is required yr, 10-yr, etc.)?		
6		e an electronic model of the storm drain 'or floodplain (if near a river)?		Carollo hired a sub-consultant o do hydrological study.
7		xisting storm drain system have adequate capacity to provide flood protection?		Absolutely not
		you identified any locations where flooding, , etc. has been or has become an issue?		Identified in Master Plan. Staff will send to GEI.
8		u anticipate making improvements, what is me (e.g; 1 year, 3 yrs, 5 years)?	As development occurs.	When funds are available.
9	Do you have facilities?	e any combined stormwater/sewer (CSO)	None mentioned	No. Infiltration causes problems at WW plant. Not a stormwater problem. Water table is at ~8ft
	Do you have	e any plans to separate them?		
10	-	e a goal or an existing program for storm re and reuse, infiltration, or groundwater	None mentioned	Currently capture and discharge to IID drains. Would need to evaluate based on economics
	practical?	ditions such that infiltration or recharge is		No. Soil conditions are not condusive to infiltration. Mostly clays with high water table.
12	12 What are the biggest constraints to stormwater			Funds
	Other Notes			To implement Master Plan, would need ~\$200M for stormwater portion. There is lots of surface drainage. Quite a bit of the flooding is caused by ag land. A regional stormwater management facility is a high priority w/IID. Regional facility would push MP requirement off 15-20 years.

KNOWN CONDITIONS

			KNOWN CONDITIONS	OPDATED CONDITIONS
		Plant:	El Centro Municipal WWTP	El Centro Municipal WWTP
		Interviewee:	Randy Hines	Terry Hagen/Norma Villacana/Randy Hines
	Questions:	Date of Interview:	June 18, 2009	October 27, 2010
1	What is your p	rimary role?	Plant Supervisor	City Engineer/ Planning and Zoning Director/ Plant Supervisor
	Size of WWTP		8	8
	Any capacity is:	sues; how close are you to the use of the	No issues at this time, using about 3.6 MGD.	No capacity issues
2			Yes and no – Have some compliance issues with selenium and are expecting the	No major or consistent problems. Occasionally out of compliance. General
	Are you under	any compliance requirements?	board to issue cease and desist or time schedule order that will force them to take	operational constraints
3	3 What were total and monthly annual total flows from		action. Would say 3.6 MGD average for 2008.	3.6MGD average
	What is your le	vel of treatment?	Secondary with UV disinfection	Secondary w/ UV disinfection
4	Any land dispo		No	Nn
5	What is the an	ticipated need and planned future design	None at this time.	None
6	What level of t anticipated?	reatment and treatment process are	No change planned at this time, have had few people approaching to increase – no plans on the table.	Looking to update for odor control for the existing plant
7		anning horizon?	Lock planning into 5 year increments, current one to 2011 or 2012.	Same
		that identifies what future capital	Have a 5 year capital improvement plan which they will be taking to council at the	Capital Improvement funding would be needed to update collection and plant
8	1	ould be for the plant?	end of the summer. No money committed yet.	upgrades for odor control. Completed, but not currently approved. No specific date anticipated.
8	When do you a	inticipate making upgrades, what is the	Most is repairs to existing pipeline and collection system. Little identified for	Upgrades to collection or WWTP dependent upon development impact fees,
	time frame (e.g	g; 1 year, 3 yrs, 5 years)?	plant and what is maintenance.	infrastructure and reimbursement agreements.
	Any plans for re	euse?	There has been some discussion in the City internally but no push.	Have been in talks with ORMAT to make improvements to upgrade to tertiary so effluent can be delivered to ORMAT. Just in talks currently. Timeline on ORMAT project is 36 mo. Other ideas involve running purple pipe to highway dividers, parks, schools, and or solar farms.
9	Is there a curre Primarily Ag? I	nt or future market for WWTP flows? ndustrial? Etc.	Have had interest expresses by geothermal plants. Irrigation also an options	Geothermal, public land irrigation, solar farms
	, ,	spective, what do you envision the future ted wastewater effluent would be?	Don't see until raw water comes up in costs. Can't compete.	
10	-	n any regulatory constraints associated effluent quality to meet a new market?	No, believe and understand it will be easier than complying with permit.	Title 22 Standards
	What are the biggest constraints to reuse?		Has been mostly cost issues/consideration. Last heard, to get to Title 22 would need to charge \$500 an acre foot to make up costs and can't compare to with \$17 and \$20 per acre foot currently available.	
	Other Notes			Project in mind is to reduce the odor caused by WWTP which drifts into the development adjacent to WWTP. Would be ~\$400k\$500k. Tertiary treatment for delivery to ORMAT also discussed. Regionalized plants are not of an interest to City of FL Centro.

Known Conditions

	Location	Heber PUD	Heber PUD
	Interviewee:		John A. Jordan
Questions:	Date of Interview:		Thursday Oct. 28, 2010 (10:00 AM)
1 What is yo	our primary role?		General Manager
Data curre	ent as of?	2005	Oct. 28, 2010
Current tre	eatment capacity is XXMGD?	5.0MGD	2.0MGD
Current ra	w water storage capacity?		5.8 million gallons (raw water ponds) (see NOTE)
2 Current ra	w water pump station capacity?		1,400 GPM (see NOTE)
Current cle	ear water storage capacity?		5.5 million gallons (see NOTE)
Current cle	ear water pump station capacity?		1,500 GPM
Current Av	verage Daily Demand (ADD)?	1.1MGD	1.1MGD
Current M	aximum Day Demand? at Peak Hour?	2.8MGD(MDD); 3000gpm(PHD)	2.2MGD (MDD); 3,000GPM (PHD)
Do you hav	ve a model of the existing distribution system?	Yes - WaterCAD (Nolte Associates, Inc.)	Since 2004 all new developments have models. Currently completing a "Water Dist.
		Tes trace on a (trace resonances, many	Study" on the older sections of the Town (should be completed mid 2011)
			CDPH Permit is for 2MGD - we have exceeded that in the past two years. Current plans
4 Current sy	stem deficiencies (low pressure/low flow/WQ)?	Presure Drops, Fire flow below acceptable levels	to expand capacity to 6MGD in 3 phases. Phase 1 & 2 are complete and working on
			Phase 3. HPUD has no current WQ problems.
	ipe in system	AC, PVC, HDPE	AC, PVC & HDPE
<u> </u>	or replacing old/damaged pipe reaches?		Currently we only replace when breaks occur.
	atment capacity is XXMGD?	15.5MGD	Current design can be expanded up to 16MGD.
Future raw	v water storage capacity?		See NOTE
5 Future raw	v water pump station capacity?		See NOTE
Future clea	ar water storage capacity?		Future capacity will depend on future demand and expansion of construction.
Future clea	ar water pump station capacity?		See NOTE
Future Ave	erage Daily Demand (ADD)?	5.4MGD	Plant expansion plans are currently for 6MGD.
Future Ma	ximum Day Demand? at Peak Hour?	13.5MGD (MDD); 15000gpm(PHD)	After the current expansion project to 6MGD, the plant can be expanded up to 16MGD without major redisign.
Future Ma Conditions	ximum Day Demand at Peak Hour plus Fire		A 6MGD plant can actually put out 8MGD by exceeding our current "Permit Capacity".
the treatm	olan that identifies future capital investments for nent facility and/or the distribution system? lan, Master Water Plan, Service Area Plan, etc.)	Capital Improvements Plan	The current expansion project would meet HPUD demands for the next 15 years (maybe more - too many variables here).
· · · · · · · · · · · · · · · · · · ·	you anticipate making upgrades/improvements, e time frame (e.g; 1 year, 3 yrs, 5 years)?	2008, 2013, and 2018	The current expansion project is planned to be completed by the end of 2011. It was a 3 phase project and Phase 1 & 2 are already complete.
8 What is yo	our planning horizon?	2018	Sort of an open question - planning horizion for what? Raw water supply, water treatment or water distribution?
	procedure for drought/low supply conditions?		Our raw water supply is provided by IID. Municipal water supplies aren't usually affected by drought. Low raw water supply could be a problem but not likely unless a major catastrophic event occurs.
10 Plan in the	event of a disaster/emergency?		HPUD has an Emergency Response Plan.
	Other Notes		

Known Conditions Updated Conditions

		known Conditions	Updated Conditions
	Plant:	Heber PUD	Heber PUD
	Interviewee:		John A. Jordan
Questions:	Date of Interview:		Thursday October 28, 2010 (10:00 AM)
	ır primary role?		General Manager
2 What are you control?	our land use policies as they relate to flood		We are a Special Dist. (under County jurisdiction)
3 Is there a p for stormw	lan that identifies future capital investments ater?		Town of Heber Drainage Master Plan (Nolte - 2006)
4 Do you hav	e a Master Drainage/Stormwater Plan?		Town of Heber Drainage Master Plan (Nolte - 2006)
manageme	e design criteria pertaining to stormwater nt facilities?		As outlined in County of Imperial Planning & Development guidelines.
	design storm return frequency is required -yr, 10-yr, etc.)?		As outlined in County of Imperial Planning & Development guidelines.
161 '	e an electronic model of the storm drain /or floodplain (if near a river)?		I don't know - have to ask Imperial County Public Works Dept. (760-482-4462).
1 1 '	existing storm drain system have adequate e capacity to provide flood protection?		Yes. Refer to Town of Heber Drainage Master Plan (Nolte - 2006).
If not, have	you identified any locations where flooding, e, etc. has been or has become an issue?		N/A.
1 X I	ou anticipate making improvements, what is ame (e.g; 1 year, 3 yrs, 5 years)?		HPUD has no improvements planned - refer to County of Imperial Public Works (760-482-4462).
Do you hav 9 facilities?	e any combined stormwater/sewer (CSO)		HPUD does not - don't know about County of Imperial Public Works.
Do you hav	e any plans to separate them?		N/A.
1 1 -	e a goal or an existing program for storm ure and reuse, infiltration, or groundwater		HPUD does not - don't know about County of Imperial Public Works.
Are soil cor practical?	ditions such that infiltration or recharge is		Don't know - refer to Imperial County Public Works (760-482-4462).
12 What are th	ne biggest constraints to stormwater		Connection to IID drain ditches.
	Other Notes		Stormwater was covered under the Town of Heber Drainage Master Plan (Nolte - 2006) that was commissioned by Imperial County PW.

UPDATED CONDITIONS

KNOWN CONDITIONS

	Plant: Heber PUD WWTP			Heber PUD WWTP
	_		Graciela Lopez	John A. Jordan
	Questions:	Date of Interview:	June 17, 2009	Oct. 28, 2010
1	What is your pr	imary role?	Heber PUD Finance Manager	General Manager
	Size of WWTP		0.81 (Plant built in 2000)	When the plant was originally constructed it had a capacity of .81MGD. During our expansion project it was discovered that the plant only has a current capacity of .65MGD (this is because of design).
2	Any capacity iss design capacity	sues; how close are you to the use of the ?	No capacity issues at this time, average of about 0.5 MGD	HPUD currently has an average dailey capacity of .5MGD.
	Are you under a	any compliance requirements?	No compliance issues at this time. Previously, up to about a year ago, had compliance issues with E-coli. Started having problems when reached 0.6MGD, especially in Winter (slower sludge drying) solution is in place now - geotube in place along with few other changes	Most pressing issue is lack of funding for the expansion/construction of the planned new WWTP (upgrade treatment and expand to 1.2MGD capacity).
3	What were tota the plant in 200	al and monthly annual total flows from 18?	Believes between 0.5 MGD and less. Summer typically higher than winter.	Currently the avg. daily flow is .5MGD.
4		vel of treatment?	Currently Primary. Have plans to upgrade to secondary but also trying to get tertiary water but will be if get contract with Ormat.	<- Refer to Graciela Lopez' answer.
	Any land dispos	sal or reuse?	No	No.
5		icipated need and planned future design al total, monthly)?	Project plan, full design completed, is to go to 1.2 MGD capacity. Have applied for funds already with different agencies (difficult to charge customers more), cost expected to be about 12.5 million dollars.	<- Refer to Graciela Lopez' answer.
6	What level of tr anticipated?	reatment and treatment process are	Secondary with ultraviolent.	<- Refer to Graciela Lopez' answer.
7	What is your pl	anning horizon?	2016	Sort of an open question - planning horizion for what? Raw sewage collection, treatment or discharge?
	-	that identifies what future capital ould be for the plant?	For current plan have applied for funding with several agencies including USDA and pre-application in to state revolving fund. Tomorrow, Thursday June 18th, there is public hearing to get rate increase approved.	<- Refer to Graciela Lopez' answer.
		nticipate making upgrades, what is the ; 1 year, 3 yrs, 5 years)?	Plan to start build in 2010 or 2011 - Depends on financing. Expect upgrades to be completed in 18 months once started.	Any expansion/construction depends on financing. The current planned project can't be done in phases and this creates a special financing problem. Without financing to do the entire project HPUD may have to do some temporary upgrades to meed regulatory requirements until full funding can be obtained.
9	Any plans for reuse?		Currently in discussion with Ormat, who is considering using reclaimed water for their cooling towers. Heber has submitted quality of water information to Ormat. They are looking for money but it is expected they will get it. If it does not work out with Ormat still under consideration to try to reuse water for irrigations of parks.	<- Refer to Graciela Lopez' answer.
	Is there a curre Primarily Ag? In	nt or future market for WWTP flows? ndustrial? Etc.	Yes (see above)	Yes. Currently negotiating with local energy company. And at some time there will be demand by other users.
		pective, what do you envision the future ewater effluent would be?		All treated WW will be reused in some way. Either by other entities, farming or municipal reuse (either by retreating for potable water or for parks etc.).
	with upgrading	n any regulatory constraints associated effluent quality to meet a new market?	California has several regulations that would have an impact and there are sometimes "surprises" such as changes to stricter rules.	As long as there is an EPA and CalEPA there will be more regulations (not all of them good). Also controlled by State Water Board regulations.
<u> </u>	what are the b	ggest constraints to reuse?		
		Other Notes	(Noted) Overall: John Jordan may have more information or details to add but is out of the office until Monday June 22nd.	

Known Conditions

_			Known Conditions	Opdated Conditions
		Location	City of Holtville	City of Holtville
		Interviewee:		Justina Arce
	Questions:	Date of Interview:		18-Aug-10
1	What is your	r primary role?		Senior Planner for the Holt Group
	Data current as of?		2006	2010
	Current trea	tment capacity is XXMGD?	3.15MGD	
2	Current raw	water storage capacity?	11.3MG	City has 3 pond rehabilitation projects under a USDA grant. So far have repaired one pond - berms. Lined3 MGD daily demand - 3 days of storage
	Current raw water pump station capacity?			
	Current clea	r water storage capacity?	1.5MG	2.4 MG Tank finished earlier this yearearthquake destroyed old 1.5 - now at 1.4
	Current clea	r water pump station capacity?		
_	Current Ave	rage Daily Demand (ADD)?	1.5MGD	3 MGD peak hours
3	Current Max	kimum Day Demand? at Peak Hour?		
	Do you have	e a model of the existing distribution system?		
4	Current system deficiencies (low pressure/low flow/WQ)?		Fire flows and residual pressures at the Barbara Worth Country Club are not adequate. Cast Iron Piping (CIP) deteriorating. Valve and fire hydrant deficiencies.	No improvements to thisCity limits have undersized lines - poor fire flow.
	Types of pipe	e in system	PVC, AC, CIP, AIP	
	Program for	replacing old/damaged pipe reaches?		
Г	Future treat	ment capacity is XXMGD?	6.0MGD	
	Future raw v	water storage capacity?		
5	Future raw v	water pump station capacity?		
	Future clear	water storage capacity?	4.0MG + 1.0MG	
		water pump station capacity?		
	Future Avera	age Daily Demand (ADD)?	1.9MGD	same - no major developments Inc. city limit is built out
_	Future Maxi	mum Day Demand? at Peak Hour?		
6		mum Day Demand at Peak Hour plus Fire		
7	the treatmen (General Pla	an that identifies future capital investments for nt facility and/or the distribution system? n, Master Water Plan, Service Area Plan, etc.)	Water Master Plan	
		u anticipate making upgrades/improvements,		
_		r planning horizon?	2020	2020 - storage capacity next year
_		rocedure for drought/low supply conditions?		
10	Plan in the e	event of a disaster/emergency?		
		Other Notes		Priority Projects Identified
		Other Notes		1) Master Water Plan - \$75k

	<u> </u>	<u>inventory</u>	Known Conditions	Updated Conditions	
		Plant:	City of Holtville	City of Holtville	
		Interviewee:		Justina Arce	
_	uestions:	Date of Interview:		8/18/2010	
1	What is you	primary role?		Senior Planner for the Holt Group	
2	What are yo control?	Evaluate hazardous flood locations and inform the public and proposed developers.		The City has adopted development standards for stormwater need, no master plan (would cost approx. \$60k)	
3	Is there a pla for stormwa	an that identifies future capital investments ter?	No. Dependent upon construction.	No. Developer driven.	
4	Do you have	a Master Drainage/Stormwater Plan?		No	
		design criteria pertaining to stormwater	Yes	No, there is no infrastructure	
5		esign storm return frequency is required vr, 10-yr, etc.)?	None mentioned	100-year	
6		an electronic model of the storm drain or floodplain (if near a river)?		No	
	-	kisting storm drain system have adequate capacity to provide flood protection?	Several piped systems are undersized or do not funciton adequately. Majority of runoff is conveyed via gravity surface flow street system.	No	
7		you identified any locations where flooding, etc. has been or has become an issue?		There are definitely areas in the community that flood. Primarily next to a school district where stagnant water pools as a result of lack of drains. Another issue is that about 60% flows into industrial area from a lack of a proper drainage and conveyance system. A preliminary engineering report identified a need for a large retention basin to prevent flooding ~ \$6M	
8		u anticipate making improvements, what is me (e.g; 1 year, 3 yrs, 5 years)?	As development occurs	5-years or as funds become available	
9	Do you have facilities?	any combined stormwater/sewer (CSO)	None mentioned.	Yes	
	Do you have	any plans to separate them?		Yes	
10	-	a goal or an existing program for storm re and reuse, infiltration, or groundwater	Yes. Some runoff directed to retention basins for infiltration, but most stormwater discharged to Alamo River	No	
	Are soil cond	ditions such that infiltration or recharge is	Yes	No.	
12	What are th conveyance	e biggest constraints to stormwater		Major pipeline is non existant in a number of areas in community- also big need for a pump station. In town flows are adequate, outside of the center of town but within the city boundaries the conveyance systems are inadequate.	
Other Notes				Stormwater was covered under the Town of Heber Drainage Master Plan (Nolte - 2006) that was commissioned by Imperial County PW.	

KNOWN CONDITIONS UPDATED CONDITIONS

		Plant:	City of Holtville Municipal WWTP	City of Holtville Municipal WWTP
		Interviewee:	Frank Cornejo	Justina Arce
	Questions:	Date of Interview:	June 23, 2009	August 18, 2010
1	What is your p	rimary role?	Waterworks Supervisor	Senior Planner for the Holt Group
	Size of WWTP		0.85	1.3 M
	Any capacity issues; how close are you to the use of the		Not at this time	No growth in the City of Holtville if there were any larger subdivsions hard
2	design capacit	ν?		pressed to service - able to serve 350 homes.
			In process of being issues a cease and desist for ammonia, heavy metals, few	Under cease and desist status. Grant awarded to make improvements to become
	Are you under	any compliance requirements?	other things that did not meet NPDES requirements.	compliant. \$ 1M grant from BECC. Need 50% matching funds. In violation due to pesticide infiltration from ag fields
	What ware tot	al and monthly annual total flows from	Average flow of 0.6 to 0.65 MCD, been protty consistent for while	pesticide illiliti ation from ag neius
3		evel of treatment?	Average flow of 0.6 to 0.65 MGD – been pretty consistent for while. Currently Secondary with UV disinfection.	Cocondany
4	Any land dispo		No, only NPDES permitted disposal.	Secondary
-	Arry lariu dispo	isal of reuse!		
	M/hat is the an	ticinated pood and planned future decima	Compliance order to bring facility to current and upcoming regulations. Working	
5		ial total, monthly)?	with firm who specializes in design of WWTP facilities. Staff currently working on securing funding and moving forward with planning and design. Will be	
	capacity (7 mile	iai totai, montiny,	presented to region board	
				City Engineer doesn't see how the implementation of RW will work - City Manager
6		treatment and treatment process are	treatment method – new process – will use activated sludge and perhaps	aggressively seeking alt channeling to Geothermal -Ormat. Also discussion of
	anticipated?		membranes leading to higher quality effluent.	treating enough so that IID could take it into canal system.
-			Would like to initially expand to 1.2 MGD then a final expansion to 1.8 MGD –	,
7	What is your p	lanning horizon?	phased expansion with timeline depends on funding	
	Is there a plan that identifies what future capital investments would be for the plant?			
			Staff working a various avenues included USDA, grants through American	No USDA proposed grants, BECC funded by EPA -partnership with NADVAC that
			Recovery Act, etc. A lot of paper submitted; believe some projects have got	covers 100% prelim design costs - 30% implementation - still gapsWWTP project
	ilivestillelits w	odia be for the plants	annroval – mostly for corrections	City of Holtville Sanitary Sewer Outfall Project Not through the Amerian Recovery Act but through BECC. The grants have not been awarded construction funding.
8				Act but through beec. The grants have not been awarded construction funding.
	When do you anticipate making upgrades, what is the time frame (e.g; 1 year, 3 yrs, 5 years)?		Would like try to secure funding this year and looking towards end of year to	
			move forward with design and perhaps by end of 2010 to start expansion to 1.2	Not by the end of 2010 but 2012.
			MGD, realistically may be later.	
	Any plans for r	reuse?	Trying to schedule meeting with National Rural Water Association. Also will meet	
			to determine feasiblity of Holtville reuse alternative.	
9		ent or future market for WWTP flows?		City Manager seeking alt channeling to Geothermal -Ormat. Also discussion of
	Primarily Ag?			treating enough so that IID could take it into canal system.
		spective, what do you envision the future ted wastewater effluent would be?	Yes. Don't know how feasible is since will take a significant infrastructure –initial	
-			capital. Possibly regional approach	
		y constraints associated with upgrading y to meet a new market?	Concerns of heads butting, that is regs or rules conflicting between Department of Public Health and Regional Board.	
	critaciit qualit	, to meet a new market:		
			Funding – infrastructure needs to be in place - pipeline, etc. The Holtville WWTP Facility is pretty remote from town – surrounded by Ag fields and in order to	
10			pump in back to city or industry like geothermal plant would need lot of	
	What are the b	piggest constraints to reuse?	distribution infrastructure. As far as use on crops would depend on type of crop	
			farmers are planting or willing to plant (since considering application of current	
			treatment level - Secondary with disinfection).	
	Ī		Note: Call was over bad Cell phone connection.	Justina will provide BECC Grant Application and Project Description.
		Other Nates		Priority Projects Identified
	Other Notes			1) Wastewater Collection System Improvements - \$3.3M
				2) Sewer Master Plan - \$75k

Known Conditions

			known Conditions	Opdated Conditions
		Location	Gateway of the Americas	Gateway of the Americas
		Interviewee:		Ed Delgado
	Questions:	Date of Interview:		28-Oct-10
1	What is you	primary role?		Deputy Director of Public Works - Administration
	Data current as of?		2007	2010
	Current trea	tment capacity is XXMGD?	.12MGD (as of 2005)	Same
2	Current raw	water storage capacity?	1.8MG	Same
	Current raw	water pump station capacity?		
	Current clear water storage capacity?		1MG	Same
	Current clear water pump station capacity?			
2	Current Ave	rage Daily Demand (ADD)?		
3	Current Max	imum Day Demand? at Peak Hour?	0.95MGD	Same
	Do you have	a model of the existing distribution system?		
4	Current syst	em deficiencies (low pressure/low flow/WQ)?		Occassionalexceedance of water quality limits
	Types of pip	-		
	Program for	replacing old/damaged pipe reaches?		
	Future treat	ment capacity is XXMGD?		
	Future raw water storage capacity?			
5	Future raw water pump station capacity?			
	Future clear water storage capacity?			
	Future clear water pump station capacity?			
	Future Average Daily Demand (ADD)?			
6		mum Day Demand? at Peak Hour?	2.9MGD	Same
	Future Maxi Conditions?	mum Day Demand at Peak Hour plus Fire		
7	the treatme	an that identifies future capital investments for nt facility and/or the distribution system? n, Master Water Plan, Service Area Plan, etc.)		Service Area Plan, 2005
	•	u anticipate making upgrades/improvements, ime frame (e.g; 1 year, 3 yrs, 5 years)?		Currently undergoing Phse II expansion.
		planning horizon?	2025	Same
9	Mitigation p	rocedure for drought/low supply conditions?		N/A
10	Plan in the e	vent of a disaster/emergency?		
		Other Notes	Gateway SAP (pdf) had broken link error messages in place of most capacity values ("Error! Not a valid link.")	PDF of Service Area Plan available if desired

Known Conditions Undated Conditions

			Known Conditions	Updated Conditions
		Plant:	Gateway of the Americas	Gateway of the Americas
		Interviewee:		Ed Delgado
Ques	stions:	Date of Interview:		10/28/2010
1 Wh	nat is your	primary role?		Deputy Director of Public Works - Administration
1 2 1	nat are yo ntrol?	ur land use policies as they relate to flood	Parking areas designed to pond to a depth of 6in. During storm events.	Same
1 3 1	here a pla stormwa	n that identifies future capital investments ter?	No. Dependent upon construction	Same
4 Do	you have	a Master Drainage/Stormwater Plan?	No.	Same
		design criteria pertaining to stormwater t facilities?	Yes	Same
If so		esign storm return frequency is required rr, 10-yr, etc.)?	100-yr	Same
		an electronic model of the storm drain or floodplain (if near a river)?		
	Does your existing storm drain system have adequate conveyance capacity to provide flood protection?		Yes	Same
If n		you identified any locations where flooding, etc. has been or has become an issue?		
101		u anticipate making improvements, what is me (e.g; 1 year, 3 yrs, 5 years)?	As development occurs	Same
	you have cilities?	any combined stormwater/sewer (CSO)	None mentioned.	None
Do	you have	any plans to separate them?		
wat	Oo you have a goal or an existing program for storm vater capture and reuse, infiltration, or groundwater echarge?		Retention basins designed to infiltrate water into ground, or discharge to Ash Canal or Alamo River.	Same
	e soil cond actical?	litions such that infiltration or recharge is	Yes	Same
1121	nat are the nveyance?	e biggest constraints to stormwater		None
		Other Notes		
L				

KNOWN CONDITIONS

_	-		KNOWN CONDITIONS	UPDATED CONDITIONS
	_		Gateway of the Americas WWTP	Gateway of the Americas WWTP
	-		Ed Delgado	Ed Delgado
	Questions:		June 18, 2009	October 28, 2010
1	What is your p	rimary role?	Administrative Analyst for County of Imperial.	Deputy Director of Public Works - Administration
	Size of WWTP		0.2	Same
2			Consideration of expansion – not yet close capacity but CHP facility wants to tie	Currently in Expansion Phase II
	design capacity?		in, which would increasing required capacity. See question 8.	Currently in Expansion Finase in
	Are you under	any compliance requirements?	Not that aware of. None.	None
3	the plant in 20		Unsure, contracted operator – Rocky Vandergriff might know. Unknown. Don't have anything current, but a study from 2005 listed inflow at approximately 14,000 gallons per day as measured by water meter readings.	Approximately 14,000 GPD
4		evel of treatment?	No Sure. Filtration and ultraviolet light disinfection.	Same
Ĺ	Any land dispo	sal or reuse?	No Sure.	None
5		ticipated need and planned future design al total, monthly)?	Planned to happen in phases, currently in phase one of three phases for plant expansion. Not sure of phase 2 or 3 size. Planned to happen in 5 phases, currently in phase one. Ultimate planned capacity to reach 1.5 MGD with daily operational flows around 1.0 to 1.1 MGD.	Same
6	What level of t anticipated?	creatment and treatment process are	Don't think any change in treatment level is planned. BIOLAC activated wastewater treatment lagoons, blower aeration chains, integral clarifiers, solar sludge dryer, backwashing filters. Ultraviolet lighting banks	Same
7	What is your p	lanning horizon?	Not sure. Several years dependent upon growth rate and funding.	Same
		that identifies what future capital ould be for the plant?	Not sure. One conducted in 2005; one rate study due to commence in 1-2 months.	Service Area Plan, 2005
8	When do you a	anticipate making upgrades, what is the g; 1 year, 3 yrs, 5 years)?	All contingent on funding – funding not yet identified. Will also be driven by growth rate of the area.	Currently in Expansion Phase II. Balance contingent on growth and funding.
	Any plans for r	reuse?	No sure.	None
9		ent or future market for WWTP flows? Industrial? Etc.	As part of prelim CHP tie-in study was consideration of using for irrigation. No other plans for reuse.	Same
9		spective, what do you envision the future ted wastewater effluent would be?	Don't envision in immediate future – for irrigation if anything	Same
10		on any regulatory constraints associated g effluent quality to meet a new market?	Not sure. Regulatory compliance could prove cost prohibitive and limit expansion. Biggest constraints to reuse include lack of practical knowledge in the area and costs.	Same
	What are the b	piggest constraints to reuse?		Same
		Other Notes	Additions or corrections provided by Ed (via email) June 23rd and June 24th. Also when plant operator available will ask about average flows and treatment level (current and furture)	

Known Conditions Updated Conditions

			Known Conditions	Updated Conditions	
		Location	City of Imperial	City of Imperial	
		Interviewee:			
	uestions:	Date of Interview:			
1	What is you	r primary role?			
	Data current as of?		2008		
	Current treatment capacity is XXMGD?		7MGD		
2	Current raw water storage capacity?		10MG		
2	Current raw water pump station capacity?		2 x 1.5MGD + 2 x 3.5MGD; Total of 10.0MGD		
	Current clear water storage capacity?		3 x 2.0MG; Total 6MG		
		r water pump station capacity?	3 x 3.6MGD; Total 10.8MGD		
3	Current Ave	rage Daily Demand (ADD)?	1.8		
٥	Current Max	kimum Day Demand? at Peak Hour?			
	Do you have	e a model of the existing distribution system?	Yes - BJ Engineering & Surveying Inc.		
4	Current syst	rem deficiencies (low pressure/low flow/WQ)?			
	Types of pip	e in system	AC(~46% of total system) and PVC		
	Program for	replacing old/damaged pipe reaches?			
	Future treatment capacity is XXMGD?		7MGD		
	Future raw water storage capacity?				
5	Future raw water pump station capacity?				
	Future clear water storage capacity?		10MG		
	Future clear water pump station capacity?				
6	Future Average Daily Demand (ADD)?		9.3MGD		
	Future Maximum Day Demand? at Peak Hour?				
	Future Maximum Day Demand at Peak Hour plus Fire Conditions?				
7	the treatme (General Pla	an that identifies future capital investments for nt facility and/or the distribution system? In, Master Water Plan, Service Area Plan, etc.)	Master Plan for the Water Distribution System, May 2006		
		u anticipate making upgrades/improvements,	As development occurs		
		r planning horizon?	2030		
9	Mitigation p	procedure for drought/low supply conditions?			
10	Plan in the e	event of a disaster/emergency?			
	Other Notes				

Known Conditions Updated Conditions

			Known Conditions	Opdated Conditions
		Plant:	City of Imperial	City of Imperial
		Interviewee:		
Questions:		Date of Interview:		
1	1 What is your primary role?			
2	What are yo	ur land use policies as they relate to flood		
3	Is there a plan that identifies future capital investments for stormwater?		No. Dependent upon construction	
4	Do you have	a Master Drainage/Stormwater Plan?		
	Do you have	design criteria pertaining to stormwater	Yes	
5		esign storm return frequency is required vr, 10-yr, etc.)?	100-yr	
6	Do you have an electronic model of the storm drain system and/or floodplain (if near a river)?			
7	Does your existing storm drain system have adequate conveyance capacity to provide flood protection?		Yes, however City systems discharge to IID drains which were not sized for an urbanized watershed.	
	-	you identified any locations where flooding, etc. has been or has become an issue?	Detention/retention facilities used to restrict storm flows into IID drains.	
8	When do you anticipate making improvements, what is		As development occurs	
9	Do you have facilities?	any combined stormwater/sewer (CSO)	None mentioned.	
	Do you have	any plans to separate them?		
10	Do you have a goal or an existing program for storm water capture and reuse, infiltration, or groundwater recharge?			
	Are soil con	litions such that infiltration or recharge is		
12	What are th	e biggest constraints to stormwater		
		Other Notes		

Wastewater Inventory

KNOWN CONDITIONS

UPDATED CONDITIONS

			KNOWN CONDITIONS	0.0
		Plant:	City of Imperial Water Pollution Control Plant	City of Imperial
		Interviewee:	Jackie Loper	
	Questions:		June 16, 2009	
1	What is your p	rimary role?	Maintenance Supervisor	
	Size of WWTP		Currently 2.4 MGD Capacity.	
2	Any capacity is design capacit	ssues; how close are you to the use of the y?	No, currently using about 1.4 to 1.6 MGD.	
	Are you under	any compliance requirements?	No.	
3	What were tot	al and monthly annual total flows from	Currently using about 1.4 to 1.6 MGD.	
4	What is your le	evel of treatment?	Secondary [with disinfection] Understanding from what told is that with changing regulations will be classified as grade 3 plant.	
	Any land dispo	sal or reuse?	No (all NPDES disposal)	
5		ticipated need and planned future design aal total, monthly)?	Most components of plant build for expansion to 5 MGD relatively easily.	
6	What level of tanticipated?	reatment and treatment process are	At the current plant the type and level of treatment will be similar to what's in use. The Keystone plant will be MBR treatment.	
7	What is your p	lanning horizon?	2010/2011 (before housing slowdown) currently 2011/2012 we need to have plans in place by these dates to allow for construction time in order to meet needs of the public by 2015.	
8		that identifies what future capital ould be for the plant?	The City currently has a rate study under way to address the current and future needs for both the existing plant as well as the Keystone plant.	
		anticipate making upgrades, what is the g; 1 year, 3 yrs, 5 years)?	All plans need to be in place in the next 3 years in order to have enough time for constructions, to be operational in time for the public needs.	
	Any plans for r	euse?	No, not with this facility. (City leading plans for Keystone/Mesquite Lake reclamation facility).	
9		ent or future market for WWTP flows? Industrial? Etc.	Currently there are no plans for the reuse water, but the City is working with prospective partner to develop the reuse and have a market for the reuse water by the time that the treatment plant [Keystone] is operational.	
	From your perspective, what do you envision the future market of treated wastewater effluent would be?		Public or private reuse of the water i.e. Landscape, commercial or industrial uses.	
		on any regulatory constraints associated g effluent quality to meet a new market?	None at this time.	
	What are the b	piggest constraints to reuse?	Developing a viable and profitable market	
			Additions or corrections provided by Jackie June 15 th .	
		Other Notes		
		Other Notes		
-				

Known Conditions Updated Conditions Location Niland Niland Interviewee Questions: Date of Interview 1 What is your primary role? Data current as of? Current treatment capacity is XXMGD? Current raw water storage capacity? Current raw water pump station capacity? Current clear water storage capacity? Current clear water pump station capacity? Current Average Daily Demand (ADD)? Current Maximum Day Demand? at Peak Hour? Do you have a model of the existing distribution system? 4 Current system deficiencies (low pressure/low flow/WQ)? Types of pipe in system Program for replacing old/damaged pipe reaches? Future treatment capacity is XXMGD? Future raw water storage capacity? 5 Future raw water pump station capacity? Future clear water storage capacity? Future clear water pump station capacity? Future Average Daily Demand (ADD)? Future Maximum Day Demand? at Peak Hour? Future Maximum Day Demand at Peak Hour plus Fire Conditions? Is there a plan that identifies future capital investments for the treatment facility and/or the distribution system? (General Plan, Master Water Plan, Service Area Plan, etc.) When do you anticipate making upgrades/improvements, what is the time frame 8 What is your planning horizon? 9 Mitigation procedure for drought/low supply conditions? 10 Plan in the event of a disaster/emergency? See Calipatria for Potable Water See Calipatria for Potable Water Other Notes

Updated Conditions Known Conditions Plant: Niland Niland Interviewee: Questions: Date of Interview: 1 What is your primary role? What are your land use policies as they relate to flood control? Is there a plan that identifies future capital investments for stormwater? 4 Do you have a Master Drainage/Stormwater Plan? Do you have design criteria pertaining to stormwater management facilities? If so, what design storm return frequency is required (100-yr, 50-yr, 10-yr, etc.)? Do you have an electronic model of the storm drain system and/or floodplain (if near a river)? Does your existing storm drain system have adequate conveyance capacity to provide flood protection? If not, have you identified any locations where flooding, conveyance, etc. has been or has become an issue? When do you anticipate making improvements, what is the time frame (e.g; 1 year, 3 yrs, 5 years)? Do you have any combined stormwater/sewer (CSO) facilities? Do you have any plans to separate them? Do you have a goal or an existing program for storm water capture and reuse, infiltration, or groundwater 10 recharge? Are soil conditions such that infiltration or recharge is practical? What are the biggest constraints to stormwater conveyance? No stormwater system to speak of Other Notes

KNOWN CONDITIONS

UPDATED CONDITIONS

_			KNOWN CONDITIONS	OPDATED CONDITIONS
		Plant:	Niland WWTP	Niland WWTP
		Interviewee:	James Strang	David Godsey
	Questions:	Date of Interview:	June 26, 2009	October 27, 2010
1			Lead Operator	Local Operation Superintendent
<u> </u>	What is your primary role? Size of WWTP		0.5	0.5
			0.5	0.5
2	design cap	y issues; how close are you to the use of the city?	No capacity issues, average flows of about 0.175 MDG to .18 MGD.	No capacity issues, average flows have dropped to about 0.08MGD
		der any compliance requirements?	Recently got a Cease and Desist order from Regional Water Quality Control Board because of copper levels. Understand that have a couple of years to correct the problem.	Copper levels still an issue. Difficult to bring discharges into compliance as they have only primary level of treatment.
3	What were total and monthly annual total flows from the plant in 2008?		Average flows of about 0.175 to 0.18 MDG. A couple of years ago the collection system was rehabilitated – relined to correct groundwater infiltration problems – rehab reduced flows (prior to, about 3 years ago average was 0.23 to 0.24 MGD).	
4	What is yo	ir level of treatment?	Primary – bar screen and ponds. Sodium hypochlorite for disinfection in contact chamber then chlorine neutralized before leaves plant.	No advanced bio; Ponds w/ flouridation/chlorination
L	Any land d	sposal or reuse?	No	No.
5		anticipated need and planned future design nnual total, monthly)?	None at this time – appears population has gone down since the number of connections has gone down.	
6	What level	of treatment and treatment process are	No changes to treatment level or processes are planned at this time.	
7	What is yo	ır planning horizon?	"Poor right now, just trying to get by" – currently only 2 of 6 areas of the plant are operating, one pump's been down a while other just gave out so currently running a rental pump. Just received approval from USDA for grant money to get new lift station, bar screen and believe a new generator. Also getting some help from the County for aeration equipment.	
8		lan that identifies what future capital s would be for the plant?	No real plan that aware of rely a lot on USDA and County help.	No. Though they got an Economic Development Department grant to help with infiltration issues. Liners were placed in the lines. No CIP for collection system.
	When do y	ou anticipate making upgrades, what is the	This year for maintenance / new equipment discussed above.	
	Any plans t		No plans currently but when they visited last, the Regional board recommended reuse when last visited. Indicated that will need to find another way to discharge water, not to Salton Sea- because regs are going to become more stringent over time and discharging to Sea would be harder.	
9	is there are	urrent or future market for WWTP flows? g? Industrial? Etc.	Regional board recommended irrigation, possibly alfalfa or even just spraying out to dry/desert land behind plant – no benefit but alternative disposal	
		perspective, what do you envision the future reated wastewater effluent would be?	If money was there to increase plant treatment level and set up distribution system then yes.	
1	1 -	ision any regulatory constraints associated ding effluent quality to meet a new market?	Always regulations. Plant manager, David Godsey (455-3439), might have better information.	
L	What are t	ne biggest constraints to reuse?		
	Other Notes			Niland SD may dissolve due to funding issues (residents not paying taxes that NSD receives their funding from). Key project may involve connecting Niland to Calipatria's WWTP
_				

Known Conditions

Updated Conditions

2	uestions: What is you Data current	Location Interviewee: Date of Interview:	Seeley	Seeley Anthony Munger
2	What is you	Date of Interview:		Anthony Munger
2	What is you			. 3
2				
2	Data current	primary role?		
2		as of?	Capacity - 2006; Demand - 2003	40479
	Current treatment capacity is XXMGD?		0.75MGD	Same
	Current raw water storage capacity?			2MG currently, though additional 5MG is being constructed
	Current raw	water pump station capacity?		600gpm
	Current clear water storage capacity?		0.90MGD	1.3MG will be available at the beginning of the year
	Current clear water pump station capacity?		2000gpm	Same
3	Current Ave	rage Daily Demand (ADD)?	0.245MGD	0.29 MGD
3	Current Max	imum Day Demand? at Peak Hour?	0.567MGD (MDD); 850gpm(PHD)	No Record for Peak
	Do you have	a model of the existing distribution system?		Yes, there is a model
4	Current system deficiencies (low pressure/low flow/WQ)?			Old pipes.
	Types of pip	e in system		AC
	Program for	replacing old/damaged pipe reaches?		Received a grant for pipe replacement. Will begin implementation Jan. 2011
	Future treat	ment capacity is XXMGD?		
	Future raw v	vater storage capacity?		
5	Future raw water pump station capacity?			
	Future clear	water storage capacity?		2-500k gal tanks (1M gal total)
	Future clear	water pump station capacity?		
	Future Avera	age Daily Demand (ADD)?	0.426MGD	Same
6	Future Maxi	mum Day Demand? at Peak Hour?	0.985MGD(MDD); 1500gpm (PHD)	Same
	Future Maxi Conditions?	mum Day Demand at Peak Hour plus Fire		
	the treatme	on that identifies future capital investments for nt facility and/or the distribution system? n, Master Water Plan, Service Area Plan, etc.)	Master Plan for the Water Distribution System for the City of Westmoreland (Holt Group 1997)	Raw water ponds are in the process of being expanded and lined. Clear storage will have been upgraded by Jan 2011. Distribution system pipe replacement beginning Jan 2011.
	When do yo what is the t	u anticipate making upgrades/improvements, ime frame?		Last plan update was 2003.
8	What is you	planning horizon?	2020	2020
9	Mitigation p	rocedure for drought/low supply conditions?		Community outreach is the only means of mitigation in drought/low supply/emergency conditions (post office, letters, etc.)
10	Plan in the e	vent of a disaster/emergency?		Secondary power source can run all treatment and distribution systems. If source is unavailable, El Centro or naval base could assist w/ emergency pipelines
Other Notes		Other Notes		Distribution system replacements will begin Jan 2011.

Known Conditions Undated Conditions

			Known Conditions	Updated Conditions
		Plant:	Seeley	Seeley
		Interviewee:		
ζ	uestions:	Date of Interview:		
1				
2	What are your land use policies as they relate to flood		Several areas directly adjacent to New River are subject to flooding. County has Flood Damage Prevention Ordinance.	
3	Is there a pla for stormwa	an that identifies future capital investments ter?		
4	Do you have	a Master Drainage/Stormwater Plan?		County owned.
5	Do you have managemen	design criteria pertaining to stormwater at facilities?		
Э		esign storm return frequency is required yr, 10-yr, etc.)?		
6		an electronic model of the storm drain or floodplain (if near a river)?		
7		xisting storm drain system have adequate capacity to provide flood protection?		
,	If not, have you identified any locations where flooding conveyance, etc. has been or has become an issue?			
8	When do you anticipate making improvements, what is the time frame (e.g; 1 year, 3 yrs, 5 years)?			
9	Do you have facilities?	any combined stormwater/sewer (CSO)		
	Do you have	any plans to separate them?		
10		a goal or an existing program for storm re and reuse, infiltration, or groundwater		
	Are soil cond practical?	ditions such that infiltration or recharge is		
12	What are the conveyance	e biggest constraints to stormwater ?		
	Other Notes			No stormwater system to speak of

Wastewater Inventory

KNOWN CONDITIONS

UPDATED CONDITIONS

				0. 5/1125 CONDITIONS	
		Plant:	Seeley County WWTP	Seeley County WWTP	
		Interviewee:	Hector Orozco	Anthony Munger	
	Questions:	Date of Interview:	June 24, 2009	October 28, 2010	
1	What is your p	orimary role?	Chief Operator		
	Size of WWTP		0.2	Same	
2	Any capacity issues; how close are you to the use of the design capacity?		Currently below capacity; 0.1 to 0.15 MGD.	Not full. Capacity @~50%	
	Are you under	any compliance requirements?	Just standard NPDES requirements.	Standard NPDES Requirements	
3	What were tot the plant in 20	tal and monthly annual total flows from 008?	As above around 0.1 to 0.15 MGD, more flow in winter.	Same	
4		evel of treatment?	Secondary with UV disinfection.	Same	
4	Any land dispo	osal or reuse?	No. NPDES permitted discharge only – to River.	Same	
5		ticipated need and planned future designual total, monthly)?	No current plans for increasing capacity.	Current capacity meets anticipated need	
6	What level of tanticipated?	treatment and treatment process are	Not that aware of.	None. In talking w/ solar project, they would pay to upgrade to tertiary treated water in exchange for receiving a certain amount of treated effluent.	
7	What is your p	lanning horizon?	Not aware of, not involved with.	N/a	
8	Is there a plan that identifies what future capital investments would be for the plant?		No involved with – Sandra Esitgoy might be better contact for some of these questions (call main CWD number).	No Plan. Pipes fixed as they break.	
		anticipate making upgrades, what is the g; 1 year, 3 yrs, 5 years)?	N/A		
	Any plans for reuse?		No. Fine with how things are done right now, meeting requirements and have good communication with regional board.	Without solar project, no plans for reuse. W/ solar project, yes.	
9	Is there a current or future market for WWTP flows? Primarily Ag? Industrial? Etc.		Not aware of any There are small parks in town	Yes. Water for SES Solar Two facility. Other possible users include existing development and new development.	
	, ,	spective, what do you envision the future ted wastewater effluent would be?	Can't say.	Will provide 0.15 - 0.20 MGD of reclaimed water for use in construction and operation activities to SES Solar Two facility (non-potable only).	
10		on any regulatory constraints associated g effluent quality to meet a new market?	No.	Title 22 Compliance. Plant will be upgraded by SES Solar Two facility in exchange for access to recycled water. If given the go-ahead, may be completed 2011-2012.	
	What are the b	piggest constraints to reuse?	Would require more testing and treatment.		
	·		See "Aside" note under Holtville	No identified priority projects. Replacement of existing collection system	
		Other Notes			

Known Conditions Updated Conditions

			Known Conditions	Updated Conditions
		Location	Westmoreland	Westmoreland
		Interviewee:		
	stions:	Date of Interview:		
1 Wha	What is your primary role?			
Data	Data current as of?			
Curr	Current treatment capacity is XXMGD?			
2 Curr	Current raw water storage capacity?			
Curr	Current raw water pump station capacity?			
Curr	rent clea	r water storage capacity?		
Curr	rent clea	r water pump station capacity?		
		rage Daily Demand (ADD)?		
Curr	rent Max	kimum Day Demand? at Peak Hour?		
Do y	you have	e a model of the existing distribution system?		
	-	em deficiencies (low pressure/low flow/WQ)?		
		e in system		
		replacing old/damaged pipe reaches?		
I -		ment capacity is XXMGD?		
		water storage capacity?		
		water pump station capacity?		
		water storage capacity?		
		water pump station capacity?		
		age Daily Demand (ADD)?		
6		mum Day Demand? at Peak Hour?		
Futu	ure Maxiinditions?	mum Day Demand at Peak Hour plus Fire		
the t	treatme	an that identifies future capital investments for nt facility and/or the distribution system? n, Master Water Plan, Service Area Plan, etc.)		
		u anticipate making upgrades/improvements, time frame (e.g; 1 year, 3 yrs, 5 years)?		
		r planning horizon?		
9 Miti	igation p	rocedure for drought/low supply conditions?		
10 Plan	n in the e	event of a disaster/emergency?		
		Other Notes		
<u> </u>				

Updated Conditions Known Conditions Plant: Westmoreland Westmoreland Interviewee: Questions: Date of Interview: 1 What is your primary role? 2 What are your land use policies as they relate to flood Is there a plan that identifies future capital investments for stormwater? 4 Do you have a Master Drainage/Stormwater Plan? Do you have design criteria pertaining to stormwater management facilities? If so, what design storm return frequency is required (100-yr, 50-yr, 10-yr, etc.)? Do you have an electronic model of the storm drain system and/or floodplain (if near a river)? Does your existing storm drain system have adequate conveyance capacity to provide flood protection? If not, have you identified any locations where flooding, conveyance, etc. has been or has become an issue? When do you anticipate making improvements, what is the time frame (e.g; 1 year, 3 yrs, 5 years)? Do you have any combined stormwater/sewer (CSO) 9 facilities? Do you have any plans to separate them? Do you have a goal or an existing program for storm water capture and reuse, infiltration, or groundwater 10 recharge? Are soil conditions such that infiltration or recharge is practical? What are the biggest constraints to stormwater conveyance? Other Notes

Wastewater Inventory

KNOWN CONDITIONS UPDATED CONDITIONS Westmoreland Westmoreland Plant: Interviewee Questions: Date of Interview: What is your primary role? Size of WWTP Any capacity issues; how close are you to the use of the design capacity? Are you under any compliance requirements? What were total and monthly annual total flows from the plant in 2008? What is your level of treatment? Any land disposal or reuse? What is the anticipated need and planned future design capacity (Annual total, monthly)? What level of treatment and treatment process are anticipated? What is your planning horizon? Is there a plan that identifies what future capital investments would be for the plant? When do you anticipate making upgrades, what is the time frame (e.g; 1 year, 3 yrs, 5 years)? Any plans for reuse? Is there a current or future market for WWTP flows? From your perspective, what do you envision the future market of treated wastewater effluent would be? Do you envision any regulatory constraints associated 10 with upgrading effluent quality to meet a new market? What are the biggest constraints to reuse? Other Notes