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A.3. PASADENA PARK IRRIGATION DISTRICT NO. 17 CONTINGENCY PLANS

A.3.1. INTRODUCTION:

The Pasadena Park Irrigation District has adequate Well and Aquifer pumping capacity and transmission/distribution capability to deal with the loss of one of our largest Wells.

WELL #1 - 720,000 GPD
WELL #2 - 1,440,000 GPD (1000 GPM)
WELL #3 - 2,880,000 GPD (2000 GPM)
WELL #4 - 2,880,000 GPD
WELL #5 - 2,160,000 GPD

The Districts Wells are geographically located in a manner that current mainline infrastructure would allow the District to operate at near full capability for both winter and summer peak demand periods.

Although the District operates on four (4) different Tier designations (Pressure zones) all the Wells are within Tier I and are inner connected and feed two Reservoirs which in turn supply the upper Tiers.

The Districts' Wells have a maximum combined capacity of 10.1 MGD and with one of the two largest out of service the capacity is 7.22 MGD.

The Districts current winter demand averages between .75 and 1 MGD. Our summer demand averages 2~3 MGD with a record peak of 6 MGD.

The District currently has no inter-ties and does not have any planned in the short term C.W.P. Capital Improvement Budget. Logistics and availability are major stumbling blocks for an inter-tie connection.

SHORT TERM ACTION PLAN:

System capacity and capability are such that the loss of a Well would be an inconvenience and may require additional operational diligence but should not adversely affect the overall operation of the District. Public Health, Safety and Fire Flow capabilities would be maintained as normal.

Should District maximum daily demand (M.D.D). increase the possibility of changing Well Pump motors/pumps from the affected Well site to one of the other lower production sized Well sites is possible. Both Well site #2 and #5 have adequate Well casing size and have been Pump tested in excess of 2,000 GPM. The District has received authorization from DOE to drill two additional Wells to be used as additional points of extraction under current water rights. A pending application for additional Water Rights (FEB. 1995) is in the works and the District has "proposed" locations that will allow integration into the Transmission/Distribution with fairly minimum upgrade requirements.

Water conservation policies could also be implemented (odd-even watering) without major inconvenience to the customer base.

A. 1.3 LONG TERM ACTION PLAN:

The long term action plan could incorporate the same actions as the short term plan and or be expanded from the change out of existing equipment to include up-sizing of a second Well site with new equipment of a higher capacity.

Should the Well #5 site require up-sizing for long term operation two mainline upgrades would be desirable to minimize hydraulic deficiencies within that portion of the system due to the increased production capacity.

- 1) Addition of 350 LF of 10" Mainline from Well #5 to LaCrosse Street.
- 2). Addition of 1618 LF of 12 Mainline on Upriver Drive from Bessie Street to Marguerite Street.

Currently the District has authorization from DOE to drill two (2) new Wells. One site that has been selected for one of the permits is on the existing Well #2 site. Selection of this site is desirable due to it's relative location to the Aquifer main channel, it's close proximity to tie into the current Transmission/Distribution infrastructure, available electrical utility capacity and land already owned by the District. Should this site (Well #2) be put out of service via. contamination then another site would need to be selected.

The second proposed Well site has similar desirable characteristics regarding the Aquifer source but additional power and Mainline upgrades would be required. Approximately 1300 LF of 12" Mainline would be required for tie-in to the system.

Should both sites become unavailable or undesirable other site(s) would be required and detailed upgrade requirements be addressed at that time.

An Inter-tie would be a last option as the nearest adequate supply is in the Town of Millwood some 1150 Lineal feet away including a River bridge crossing. Millwood currently has pumping capacity of 4500 GPM from its' own Wells. Their maximum demand is approximately 2500 GPM (Hottest day, highest demand). With an excess pumping rate of 2000 GPM. An inter-tie could replace any capacity loss of any one of our Wells. In addition Millwood has interties with two adjoining water utilities Orchard Ave. and Irvine, both are 6" interties. A 12" mainline upgrade would cost approximately \$68,000.00.

No formal agreements have been proposed or enacted to date. Until Millwoods recent system upgrades (last 2 years) feasibility of this project was low to none.

A. 3 4. SUMMARY:

Pasadena Park Irrigation District could function to its MDD with the loss of Well #3 or #4 (largest) by utilizing the systems other sources. No public (customer) participation would be required to reduce the MDD at this time.

However, in planning for future Wells and Distribution/Transmission infrastructure Capital improvements the District will take the Wellhead Emergency Contingency Plan into consideration (given an higher priority) when we update our Comprehensive Water Plan which we expect to do soon.

WELL CONTAMINATION ACTION PLAN

Short-Term Plan (First 30 days)

District Name PASADENA PARK TRIG. DIST #17
Well No./Name WELL #3 OR #4
Location 9227 E ILWACO DR.

1. A. Well Capacity 2000 gpm
2. Excess System Capacity entire District
 - A. Normal demand for period 4167 gpm
 - B. System Capacity 5,000 gpm
3. Reconfigure Distribution System
 - A. Piping capacity into affected zone N/A gpm
 - B. Shortfall N/A gpm (1A minus 3A)

Comments/Conclusion NO CHANGE IN SYSTEM OPERATION.
WELL VALVE OFF

4. Conservation/Rationing
 - A. Total estimated expendable demand (irrigation, etc.) 2383 gpm
 - B. Voluntary reduction anticipated 1922 gpm
 - C. Methods of implementing reduction
 - Contact major industries N/A
 - Contact known irrigation users YES

Comments/Conclusion CAN REDUCE DEMAND SCALE (30→50%)
DUE TO ATTITUDES & LANDSCAPE DOLLAR INVESTMENT

5. Portable supplies required:
 - A. Tanker Truck 0 gpd
 - B. Bottled 0 gpd

Comments/Conclusion NO ACTION REQUIRED

6. Boiling Order? Yes ☒ No

6. Treatment Possible for following contaminants

Concentration

- A. Hydrocarbons NO
B. Solvents NO
C. Herbicides/Pesticides NO
D. Metals NO

Comments/Conclusions NOT COST EFFECTIVE FOR
OUR SIZE SYSTEM

7. Neighbor system Inter-ties

A. Existing Intertie?

Pipe length 0 (ft.) 0 Size (in.) 0 Cost \$ 0

B. New Construction Intertie

Pipe length 1150' (ft.) 12" Size (in.) 30' 3/4" Cost \$ 68,000.00

C. Delivery rate available 2000 gpm

D. Consolidation/permanent arrangement possible? NO, NOT
AT PRESENT TIME

Comments/Conclusions WILLWOOD'S CAPACITY & CAPABILITY
AT THE PRESENT TIME COULD REPLACE LOST WELL CAPACITY
8. Conservation/Rationing ALTHOUGH COST WOULD BE HIGH.

A. Total Estimated expendable demand 2083 gpm

Comments/conclusions WILL BE HARD TO ENFORCE
ON VOLUNTARY BASIS. BY-LAW CHARGES
AND LEGAL NOTIFICATION REQUIRED TO
FORCE CONSERVATION AND OR RATIONING.
RATE RESTRUCTURING VIA BY LAW AMENDMENTS
LIKELY TO BE MOST EFFECTIVE METHOD.

WELL CONTAMINATION ACTION PLAN

Long-Term Program

District Name

PASADENA PARK IRRIG. DIST. #17

Well No./Name

Well #4 OR #3

Location

8901 E. UPRIVER DRIVE1. A. Well Capacity 2000 gpm

2. Excess System Capacity entire District

A. Peak demand 4167 gpmB. System Capacity 5000 gpmComments/Conclusion NO CHANGE IN LEVEL OF SERVICE.
WELL VALUED OFF

3. Reconfigure Distribution System

A. Piping capacity into affected zone N/A gpmB. Shortfall N/A gpm (1A minus 3A)Comments/Conclusion NO REQUIRED IMMEDIATE UPGRADE
NECESSARY

4. Construct Inter-ties

Pipe Length (ft.) 1150' size (in.) 12" Cost \$ 68,000.⁰⁰Comments/Conclusion BRIDGE RIVER CROSSING REQUIRED.
CONTRACT OR USE AGREEMENT REQUIRED.

5. New Well

A. Water Rights allow new well? YES (2)B. Is a new site available? YES Size 1 ac.

C. Costs/Cost effectiveness

Well Size 20" Depth: 275' Cost \$ 82,750.⁰⁰Pipe Length (ft.) 100 size (in.) 12" Cost \$ 3,000.⁰⁰Comments/Conclusions APX. 4-6 MO. REQUIRED TO BRING
ON/LINE.

SAJB CONTINGENCY PLANNING

Water District: PASADENA PARK TRIG. DIST.

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