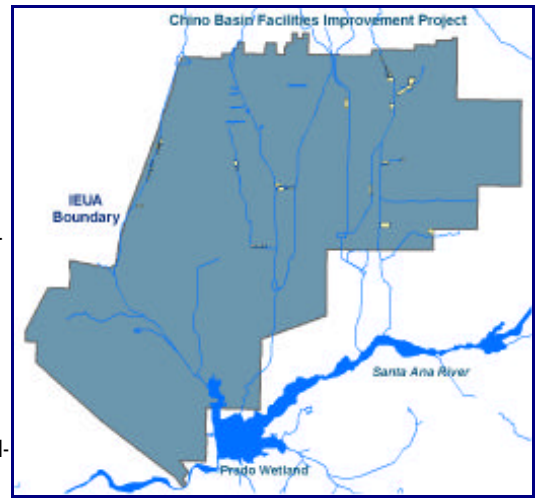
IEUA

APRIL 2004 CHINO BASIN FACILITIES IMPROVEMENT PROJECT SUMMARY

Program Description

The Chino Basin Facilities Improvement Program (CBFIP), a joint effort of the Chino Basin Watermaster (CBWM), the Chino Basin Water Conservation District (CBWCD), the Inland Empire Utilities Agency (IEUA), and the San Bernardino County Flood Control Department (SBCFCD) is well underway with six of eight bid packages being constructed. IEUA was selected as the "Contracting Agency", established financing for the CBFIP through grants from the Santa Ana Watershed Project Authority (SAWPA) under Proposition 13 in June 1999. The CBFIP is a system comprised of activation of two Metropolitan Water District turnouts from the Rialto Pipeline and construction of a new turnout on the Etiwanda Intertie; modifications to several flood control channels conveying imported water, storm water and recycled water; and five rubber dams and three drop inlets diversion structures in the flood control channels to divert the water to the 18 groundwater recharge sites. The 18 sites have 42 recharge basins varying from 1 to 5 basins at the respective sites. The groundwater recharge sites, when fully developed will have a total annual recharge capacity of 120,000 to 170,000 ac. ft.; 20,000 to 25,000 of storm water; 80,000 to 120,000 ac. ft. of imported water; and 20,000 to 25,000 ac. ft. of recycled water.

The construction of the CBFIP will be in eight phases, with different contractors, totaling $38,700,000. Construction is projected for completion in March 2005.



Project Purpose:

The purpose of the project is to provide storm water and imported water recharge facilities improvements required to increase groundwater recharge in the Chino Basin and to implement the Recharge Master Plan and Optimum Basin Management Program (OBMP)

Project Participant:

- Inland Empire Utilities Agency (Lead, Contracting Agency)
- Chino Basin Watermaster
- San Bernardino County Flood Control District
- Chino Basin Water Conservation District
- SAWPA

Design and Construction Management Team:

- Tettermer & Associates (Design Consultant)
- Black & Veatch/IEUA (Program & Construction Management)
- URS/Twining-Govil-Ryan (Geotechnical Consultant)

Bid Package No. 1 (Budget $8,250,000)

Bid Package No. 1 includes six basins: Banana Basin, College Heights Basins, Lower Day Basin, RP-3 Basins, Turner Basin No. 1, Turner Basins No. 2, 3, & 4

Work Accomplished

- RP-3 - **SUBSTANTIALLY COMPLETE**
- College Heights Basins – **SUBSTANTIALLY COMPLETE**
- Turner Basins 2, 3, & 4 – **SUBSTANTIALLY COMPLETE**
- Turner Basin 1 – **SUBSTANTIALLY COMPLETE**
- Lower Day Basin – **SUBSTANTIALLY COMPLETE**
- Banana Basin – **SUBSTANTIALLY COMPLETE**
- Acceptance date: May 21, 2004

Bid Package No. 2 (Budget $6,700,000)

Bid Package No. 2 includes three basins: Declez Basin, Ely Basins 1, 2, & 3, and 8th Street Basins; four rubber dams: College Heights (San Antonio Channel), Lower day Basin (Day Creek Channel), RP-3 Basins (Declez Channel), Turner Basin No. 1 (Cucamonga Channel); and three drop inlets: Brooks Basin (San Antonio Channel), Turner Basins 2, 3, & 4 (Deer Creek Channel), and Victoria Basin (Etiwanda Channel).

Basins status

- Declez Basin – **SUBSTANTIALLY COMPLETE**
- Ely Basins 1, 2, & 3 – **SUBSTANTIALLY COMPLETE—**Sluice gates stolen—reorder & install.
- 8th Street Basins – **SUBSTANTIALLY COMPLETE**

Rubber Dam status

- The four rubber dams are installed in the channels and have been manually air tested—

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SUBSTANTIALLY COMPLETE.

Drop Inlets

- The three drop inlets—**SUBSTANTIALLY COMPLETE**

Monitoring Wells at Brooks Basin **—SUBSTANTIALLY COMPLETE**

- Monitoring Wells at Brooks Basin
- Expected Acceptance Date: May 21, 2004

Bid Package No. 3 (Budget $3,200,000)

- Construction began January 5, 2004.
- Bid Package No. 3 includes the construction of 11,000 linear feet of 36' diameter pipeline in Jurupa Avenue from the Jurupa Basin at Mulberry Avenue to Beech Avenue at the RP-3 Basins.
- 2,000 lineal feet has been installed from RP-3 site westward along Jurupa Avenue. The project is 23% complete.
- The construction period is 377 calendar days.

Bid Package No. 4 (Budget $2,300,000)

- Bid package No.4 consists of constructing (1) a canal and 100 linear feet of 48" pipe to convey water to (2) the Jurupa Pump Station and (3) 400 lineal feet of 36" diameter cement mortar lined & coated (CML & C) steel pipe force main.
- The Jurupa Basin Pump Station was bid November 20, 2003 and was awarded December 3, 2003. The "notice to proceed" was issued at preconstruction meeting held February 19, 2004. Construction started on February 20, 2004.
- SBCFCD has committed to constructing a section of the San Sevaine concrete channel with a drop inlet and pipeline to deliver stormwater, imported water, and recycled water to Jurupa Basin that will be pumped to the RP-3 Basins and the Declez Basin. The remainder of the San Sevaine Channel between Valley Boulevard to the Jurupa Basin drop inlet will be an open channel until funds are available to complete channel lining.
- The construction period is 218 calendar days.

Bid Package No. 5 (Budget $3,700,000)

- DenBoer has begun construction at the IEUA RP-3 site; and is measuring cable lengths at all other sites in order to purchase cables and appurtenances.
- Radio controls will monitor and govern water levels in all the basins, control the drop inlets and rubber dams; four monitoring sites will be established at the CBWM, CBWCD and SBCFCD offices with the master controls located at RWRP-1. The SBCFCD offices will have a satellite control station.

Basins status

- Montclair Basins—The SCADA system will be installed in the Montclair Basins to control the inlet and internal gates.
- The construction period is 200 calendar days.

College Heights Rubber Dam inflated

Jurupa Force Main in construction

Lower Day Basin

RP-3 Basins

Bid Package No. 6 (Budget $1,400,000)

Bid Package No. 6 includes the MWD CB Turnouts No. 11T, 15T and a new connection on the Etiwanda Intertie @ Station 211 + 47.

- The Redevelopment of the two existing MWD turnouts and development of a new turnout from the Etiwanda Intertie @ location 200+47 was announced for bid December 2, 2003.
- The letter of Notification to Proceed was issue on March 19, 2004.
- IEUA pre-purchased butterfly and sleeve valves to expedite the project.
- The construction period is 193 calendar days.

It has been determined that connections at CB Turnouts No. 11T and 15T can be made without shutdown of the Foothill Feeder Pipeline. However, the Etiwanda Intertie @ Station 211 + 47 will need to be coordinated with shutdown of the Intertie in April 2004, allowing for tapping the line and tie-in.

Bid Package No. 7 (Budget $3,770,000)

- Announcement of Bid Package No. 7, will be in April 2004, a courtesy tour of the prioritized construction sites will be conducted. The scheduled bid opening is in early May 2004, and award of contract is anticipated June 2004.
- The projects and the percentage of the design that is completed are listed by priority as follows:

	Project	Design	Estimated Cost
1.	RP-3 Mitigation Project, Cell #2	100% complete	$ 500,000
2.	Hickory Basin Manifold PS	100% complete	$1,000,000
3.	Banana Basin discharge	100% complete	$ 70,000
4.	Victoria Basin Completion	100% complete	$1,000,000
5.	Upland Basin	100% complete	$ 600,000
6.	Upland Basin 48" Pipeline	100% complete	$ 150,000
7.	SCADA Module	100% complete	$ 350,000
	Subtotal		$3,770,000

- The construction period is 120 calendar days.

Victoria Basin - Windrow Earth Transport Contract (WET)
Permits for earth work in Victoria Basin have been issued by the SBCFCD. Dispatch Trucking, subsidiary of WET, has excavated 25,000 cu. Yds. Of the 100,000 cubic yards of soil from the floor of the Victoria Basin which will ultimately save $600,000. The excavation will be over an extended period of time due to the high gravel content of the material, not being readily usable for base material for building construction.

Montclair Basins
The SCADA system will be installed in the Montclair Basins to control the inlet gate and internal gates.

Bid Package No. 8 (Budget $3,000,000)

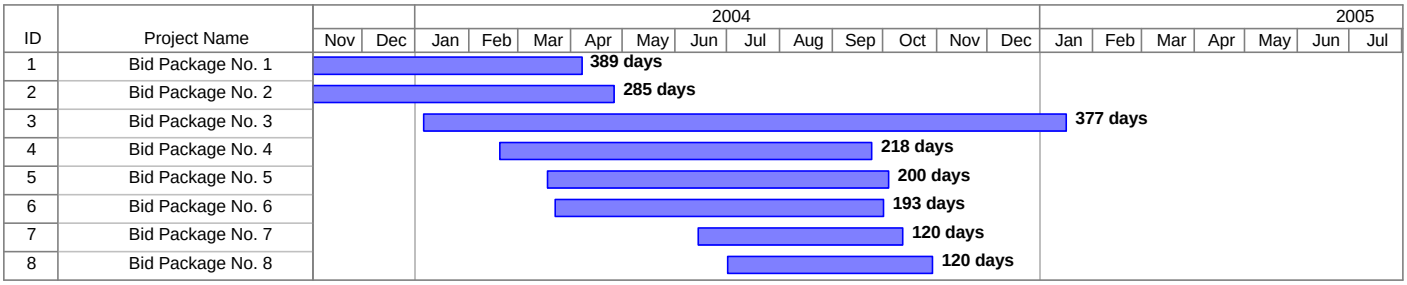
The project is scheduled to start in July 2004 and expected to be completed at the end of September 2004.

1.	Recycled Water connections, 4 ea.	$1,500,000
2.	Monitoring wells, 9 ea.	$1,500,000
	Subtotal	$3,000,000

Non-Construction Cost (Budget $1,513,000)

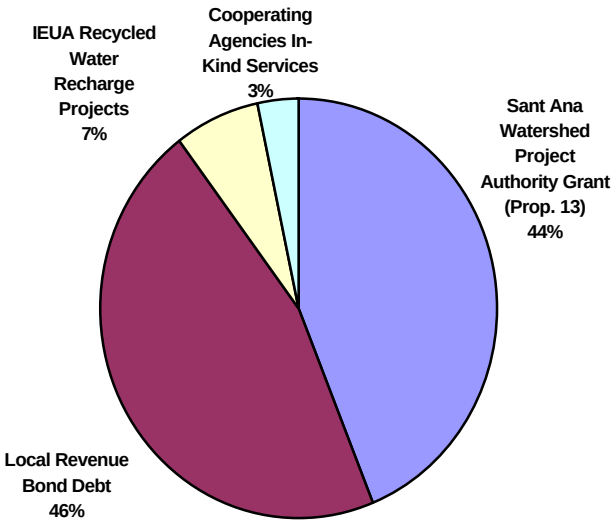
Equipment Pre-Purchased		
1.	Rubber Dams, 5 ea.	$885,479
2.	Sleeve and BF Valves, 3 ea.	$264,941
Equipment to be Purchased		
1.	Portable Pumps, 2 ea.	$80,000
2.	Pick-up Truck, 1 ea.	$25,000
3.	Road Grader, 1 ea.	$200,000
4.	Spare Parts for Valve Actuator	$50,000
5.	Safety Grates for Gate Opening	$7,500
	Subtotal	$1,512,920

CBFIP Active Projects Construction Schedule



Project Financing

- Santa Ana Watershed Authority Grant (Prop. 13) — $19 Million
- Local revenue bond debt — $20 Million
- Cooperating Agencies in-kind Services — $1.5 Million



Project Summary

Construction Phase	Budget	Projected Actual
Bid Package No. 1	$8,200,000	$8,250,000
Bid Package No. 2	$6,700,000	$6,700,000
Bid Package No. 3	$2,900,000	$3,200,000
Bid Package No. 4	$2,300,000	$2,300,000
Bid Package No. 5	$3,700,000	$3,700,000
Bid Package No. 6	$1,400,000	$1,400,000
Bid Package No. 7	$3,770,000	$3,960,000
Bid Package No. 8	$3,000,000	$3,150,000
Equipment	$1,513,000	$1,520,000
Expenditure		$23,230,000
Total Budget	**$33,483,000**	**$34,180,000**

Projected vs. Actual Costs