

**KERN COUNTY WATER AGENCY**  
**Cross Valley Canal Advisory Committee**  
**P. O. Box 58, Bakersfield, California 93302-0058**

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A meeting of the Cross Valley Canal Advisory Committee has been scheduled for **Wednesday, August 24, 2011 at 1:30 p.m.** and will be held in the Board Room of the Kern County Water Agency's Stuart T. Pyle Water Resources Center, at 3200 Rio Mirada Drive, Bakersfield, California.

**MEETING NOTICE & AGENDA**

1. Minutes of Cross Valley Canal Advisory Committee Meetings – July 27, 2011
2. Cross Valley Canal Advisory Committee Member Reports
3. Public Comment
4. Report on Operations, Maintenance and Deliveries
  - a. Operations and Maintenance Activities
  - b. Year-to-Date Deliveries
5. Report of the Assistant Water Resources Manager
  - a. Review of 2011 Budget to Actual Operations and Maintenance Costs
  - b. Recommendation to Execute an Agreement for Reimbursement of Cross Valley Canal Repair Costs with the City of Bakersfield
6. Update on the Cross Valley Canal Expansion Project
7. Update on the Westside Parkway Project
8. Adjourn

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Requests for a disability-related modification or accommodation, including auxiliary aids or services, in order to attend or participate in a meeting should be made to the Cross Valley Canal Secretary in advance of the meeting to ensure availability of the requested service or accommodation.

**CROSS VALLEY CANAL**  
**REPORT ON OPERATIONS, MAINTENANCE AND DELIVERIES**  
**JULY 2011**

**CROSS VALLEY CANAL****OPERATIONS**

Preliminary inflows and deliveries for the month of July 2011 were as follows:

	<u><i>Acre-feet</i></u>
Points and amounts of inflow:	
California Aqueduct	27,993
CVC / FK Intertie	5,444
Pioneer Inlet	<u>4,801</u>
 Total Inflow	 <u>38,238</u>
Deliveries and losses:	
Arvin-Edison WSD Turnout	105
Calloway Turnout	5,455
Kern Water Bank P-11 Turnout	5,777
Lined losses Pool 1- 6	194
N-2 Siphons	1,902
River Turnout No. 1	4,788
River Turnout No. 4	1,093
Rosedale-Rio Bravo WSD Turnout No. 1	1,261
Rosedale-Rio Bravo WSD Turnout No. 2	3,802
Section 4 Turnout	5,462
Strand Ranch North Turnout	2,488
Strand Ranch South Turnout	1,244
Strand Siphons	3,773
Unlined Losses Pool 7 - 8	<u>894</u>
 Total Deliveries	 <u>38,238</u>

For the month of July 2011, deliveries on behalf of the existing Cross Valley Canal (CVC) Participants were 16,321 acre-feet (af) and deliveries on behalf of the new CVC Participants were 21,917 af.

**MAINTENANCE AND REPAIRS**

- Removed 100 horsepower pump 3G from Pumping Plant No. 3A to be rebuilt;
- Removed 250 horsepower pump 4H from Pumping Plant No. 4A to be rebuilt;
- Replaced relay to motor 4B2 at Pumping Plant No. 4B;
- Re-installed siphon breakers at Pumping Plant No. 2A, 3A and 4A to accommodate increased forward flow;
- Excavated a dirt trough on the east side of Pumping Plant Nos. 2A, 2B, 3B, 4B and 5B to act as a drainage gutter;
- Serviced air conditioning units at Pumping Plants 1B through 6B;
- Performed dust abatement by applying water with the water truck to the access roads south of Stockdale Highway, between Enos Lane and Renfro Road and to the entrances of Pumping Plant Nos. 2, 3 and 4;
- Cleaned Motor Control buildings inside and out at all Pumping Plants;
- Used the Gradall to clean forebay and afterbay trash racks and siphons;
- Performed road maintenance along CVC rights-of-way;
- Continued washout repairs at various points along the Canal Levee and around Motor Control buildings due to previous heavy rains;

- Continued rodent abatement along the CVC rights-of-way due to increased evidence of rodent activity;
- Continued post-emergent herbicide applications along CVC rights-of-way; and
- Performed routine maintenance activities that included fence repairs, vehicle and heavy equipment maintenance and repairs, and pump maintenance.

#### OTHER DEPARTMENT ACTIVITIES

- Operated various recharge facilities on the Pioneer and Berrenda Mesa recharge facilities as well as the Kern Water Bank Canal;
- Began Shallow groundwater level monitoring run;
- Began Water Quality sampling run using Purge Pump;
- Completed monthly Kern Fan groundwater level monitoring run;
- Removed weeds and debris from inside and outside of the KCWA, BK and BM well enclosures;
- Performed dust abatement using the water truck to wet levee roads on the North Pioneer Property;
- Performed road maintenance on South and Central Pioneer levees; and
- Continued rodent abatement along the Berrenda Mesa and Pioneer recharge facility levees.

**KERN COUNTY WATER AGENCY  
CROSS VALLEY CANAL ADVISORY COMMITTEE**

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P.O. Box 58, Bakersfield, CA 93302-0058  
Phone: (661) 634-1400

Minutes  
July 27, 2011

A meeting of the Cross Valley Canal Advisory Committee was held on Wednesday, July 27, 2011 at 1:30 p.m. in the Board Room of the Kern County Water Agency's Stuart T. Pyle Water Resources Center. Those who attended the meeting were as follows:

**MEMBERS:**

Arvin-Edison Water Storage District  
Cawelo Water District  
Fresno-Tulare Group  
Improvement District No. 4

Kern County Water Agency  
Kern Delta Water District  
Kern-Tulare Water District  
Rosedale-Rio Bravo Water Storage District

Steve Collup  
David Ansolabehere  
Dan Vink  
Tim Ruiz  
Doug Nunneley, Alternate  
Dave Beard, Alternate  
Bill Taube  
Mark Mulkay  
Absent  
Eric Averett  
Roy Pierucci, Alternate

**OTHERS PRESENT:**

Kern County Water Agency

David Baumstark  
Jim Beck  
Thane Campbell  
Don Garton  
Lynn Grant  
Gene Lundquist  
Mike McGovern  
Holly Melton  
Ted Page  
Nick Pavletich  
Stephanie Prince  
Martin Taylor  
Trent Taylor  
Terry Rogers  
Steve Ruettgers  
Martin Varga  
Steve Mimiaga  
Ram Venkatesan  
David Aranda  
Rebecca McClure  
Calvin Wesson

Mimiaga Engineering Group  
North Kern Water Storage District  
North of the River Municipal Water District

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Vice Chairman Eric Averett called the Cross Valley Canal (CVC) Advisory Committee (Committee) meeting to order at 1:35 p.m. and directed the Committee to the agenda for further discussion.

Vice Chairman Averett expressed his appreciation for former General Manager, Tom Clark.

- 1) Minutes of the Cross Valley Canal Advisory Committee Meeting Steve Collup made a motion to approve the June 22, 2011 minutes and it was seconded by Mark Mulkay. The motion was unanimously carried.
- 2) Cross Valley Canal Advisory Committee Member Reports No comments.
- 3) Public Comment No comments.

A Certificate of Appreciation was presented to Lynn Oliver Grant on behalf of the CVC Committee in recognition of Mr. Grant's retirement date effective on August 16, 2011. Vice Chairman Eric Averett expressed his appreciation for Mr. Grant's 35 years of service and his management and leadership role as the CVC Operations and Maintenance Superintendent for the Kern County Water Agency (Agency).

Mr. Grant expressed his appreciation for the experience he has gained throughout the years and is happy to have had the chance to work at the Agency for 35 years.

- 4) Report on Operations, Maintenance and Deliveries
  - a) Operations and Maintenance Activities Thane Campbell reported that Agency staff excavated a dirt trough on the east side of Pumping Plant (PP) Nos. 3A, 4A, 5A, 6A and 7 to act as a drainage gutter; serviced air conditioning units at PP's 1B through 5B; re-installed a N-2 siphon meter; performed dust abatement by applying water with the water truck to the access roads south of Stockdale Highway, between Enos Lane and Renfro Road and to the entrances of PP Nos. 2, 3 and 4; completed installation of piezometers (9) for groundwater monitoring in Pool 4 adjacent to City of Bakersfield 2800 Acres; repaired cavernous washout on the discharge slope at PP No. 6A; replacement of Supervisory Control and Data Acquisition Human Machine Interface screen at PP No. 6A; replaced pressure transducer probe and mounting hardware in the afterbay at PP No. 7; pruned vegetation along fence line in Pool 8 from 24th street Siphon to the Calloway Canal Siphon; cleaned motor color building inside and out at all PP's; used the Gradall to clean forebay and afterbay trash racks and siphons; and performed road maintenance along the CVC rights-of-way.
  - b) Year-to-Date Deliveries Trent Taylor reported that deliveries for the month of June 2011 were approximately 28,000 acre-feet, with deliveries made by Arvin-Edison Water Storage District, Cawelo Water District, Improvement District No. 4, the Agency and Rosedale Rio-Bravo Water Storage District. A majority of deliveries were made in reverse flow, which consisted primarily of U.S. Bureau of Reclamation Section 215 water. Mr. Taylor then presented graphs illustrating deliveries by sources and by direction of flow over the last twelve months.

Committee Member Steve Collup requested that the CVC Participants receive a monthly deliveries schedule for reference.

- 5) Report of the Assistant Water Resources Manager Nothing to report.

- a) Report on the Conclusion of the Kern County Water Agency Overhead Allocation Methodology Review Holly Melton reported on the conclusion of the Agency's Overhead Allocation Methodology review.
- 6) Cross Valley Canal Expansion Project Update Mr. Varga provided a status report on current construction activities for the CVC Expansion Project (Project).
- a) Recommendation to Execute Change Orders for the Greater Bakersfield Turnout No. 2 from the California Aqueduct and Outlet Canal Siphon Project – Contract No. KCWA 2006-05A Mr. Varga reported that during the process of constructing the Project, the Contractor has identified items of work not originally included in the contract's scope of work. These items include the following:
- a) Provide additional manufacturing services as required to renew 12-month warranties on the three 84-inch by 84-inch turnout gates due to the gates being in storage since 2007. Extra services include: (1) Waterman representative inspection of turnout gates; (2) shipment of gates to the Waterman factory for rehabilitation; (3) refurbish gates; (4) inspect and test EIM gate actuators; and (5) ship all items back to site. The Agency Board of Directors previously approved a preliminary amount for initial inspection of gates. This change order amount encompasses all costs related to the gate inspections, rehabilitation, and warranty renewal (Contract Change Order (CCO) #4);
- b) Raise the cofferdam to the top of the aqueduct liner and modify the cofferdam footings. The California Department of Water Resources (DWR) recently determined that Aqueduct Pool 28 must be maintained between elevation 297.9 and elevation 298.8 during the Project to satisfy downstream peak seasonal demands. As such, DWR is requiring that the top of the cofferdam be raised roughly 3.5 feet to match the existing top of the aqueduct liner at elevation 301.0. The necessary changes to the cofferdam anchor footings include enlarging the two sloped concrete anchor piers to align with the repositioned cofferdam. The costs also include revising the cofferdam plans for approval by DWR (CCO #5); and
- c) The new Turnout No. 2 structure will need to be modified to accommodate the cofferdam repositioning (resulting from DWR raising the cofferdam roughly 3.5 feet). The necessary Turnout No. 2 structure modifications are currently being determined and finalized. The multiple changes will likely include reducing the turnout structure overall dimension, reconfiguring the turnout structure invert slab, changing the invert slab from flat to sloped, and rounding all wall tops and leading edges into the turnout structure. Agency staff is only requesting preliminary authorization of estimated costs at this time as the final scope of changes has not been finalized yet (no CCO).

Agency staff is recommending that the General Manager be authorized to execute the change orders in the amount of \$66,150 and a contract time extension of zero days.

A recommendation was made that the Agency Board authorize the General Manager to execute change orders for the Greater Bakersfield Turnout No. 2 from the California Aqueduct and Outlet Canal Siphon Project – Contract No. KCWA 2006-05A in the amount of \$66,150 and for a contract time extension of zero days, subject to approval of General

Counsel as to legal form, as outlined in the July 27, 2011 staff memorandum to the Cross Valley Canal Advisory Committee, Agenda Item No. 6a. Steve Collup moved the recommendation and it was seconded by Bill Taube.

a) Recommendation to Increase the Expenditure Limit for an Engineering Consultant for the Cross Valley Canal Expansion Project Mr. Varga reported that in April 2004, the Agency Board authorized retaining Boyle Engineering, now AECOM, to provide planning and design engineering for the CVC Project. The Greater Bakersfield Turnout No. 2 facility is the only remaining facility in construction for the Project. The Project requires the placement of a cofferdam in the California Aqueduct (Aqueduct) in order to facilitate construction of the new CVC turnout. In 1997, DWR agreed to lower water levels in the Aqueduct to minimize the height of the cofferdam needed, which reduced the overall project costs.

During the month of May 2011, DWR notified Agency staff that due to hydrologic changes in the State Water Project, the water level in the Aqueduct could not be lowered. This required structural modifications to the new turnout structure to accommodate a higher placement of the cofferdam. For this reason, staff requested a proposal from AECOM to provide modified structural calculations and facility drawings. Staff recommends that the expenditure limit for AECOM be increased in an amount not to exceed \$15,800.

A recommendation was made that the Agency Board authorize the General Manager to the expenditure limit for an engineering consultant for the Cross Valley Canal Expansion Project in an amount not to exceed \$15,800 subject to approval of General Counsel as to legal form, as outlined in the July 27, 2011 staff memorandum to the Cross Valley Canal Advisory Committee, Agenda Item No. 6b. Mark Mulkey moved the recommendation and it was seconded by Bill Taube.

7) Update on the Westside Parkway Project Mike McGovern reported on the schedules for the construction of the Westside Parkway Project Box Culverts. The Gulf Box Culvert will begin construction in mid-August; and Toscopetro Box Culvert will begin construction in mid-September.

8) Adjourn Vice Chairman Eric Averett adjourned the Committee meeting 2:25 p.m.