



United States Department of the Interior



BUREAU OF RECLAMATION
Boulder Canyon Operations Office
P.O. Box 61470
Boulder City, NV 89006-1470

IN REPLY REFER TO:

BCOO-4230
WTR-4.03

DEC 15 2006

CERTIFIED – RETURN RECEIPT REQUESTED

Mr. Steven B. Robbins
General Manager-Chief Engineer
Coachella Valley Water District
P.O. Box 1058
Coachella, CA 92236

Subject: Colorado River Water Delivery Agreement (CRWDA), Exhibit C Payback for 2005

Dear Mr. Robbins:

In 2004, the Bureau of Reclamation instituted a process to implement the Inadvertent Overrun and Payback Policy (IOPP). This implementation process specifically addresses the payback requirements contained in Exhibit C of the Colorado River Water Delivery Agreement, signed October 10, 2003. Exhibit C is a payback schedule for overruns incurred in calendar years 2001 and 2002.

In accordance with the IOPP, the Coachella Valley Water District (CVWD) prepared an extraordinary water conservation plan that detailed a water management program to pay back 19,100 acre-feet of the overrun during calendar year 2005. The Inadvertent Overrun and Payback Technical Committee (IOPTC) reviewed the plan and recommended its adequacy to Reclamation on September 13, 2004. In a letter dated May 16, 2006, you requested an adjustment from the originally planned payback volume due to additional data from your final program report. The IOPTC reviewed the report and recommended a decrease of 609 acre-feet on July 20, 2006.

The IOPP obligates Reclamation to monitor the implementation of the extraordinary conservation measures contained in the payback plan. The IOPTC recommended that Reclamation spot check 5 percent of the acres receiving water management assistance to verify that the measures were applied according to the 2005 CVWD Extraordinary Water Conservation Plan. Verification included interviewing the water user, examining water use data, observations from field visits, and reviewing consultant implementation reports.

Of the 46,879 acres under water management assistance, 32 fields totaling approximately 3,598 acres were randomly selected to verify the implementation of the conservation measures.

Enclosed for your information is the resulting report that validates the implementation of the planned water conservation measures. Reclamation accredits 18,491 acre-feet to the payback of 2001 and 2002 overruns in calendar year 2005.

If you have any questions, please contact Mr. Steve Jones at 702-293-8186.

Sincerely,



Jayne Harkins, P.E.
Acting Regional Director

Enclosure

cc: Mr. Gerald Zimmerman
Executive Director
Colorado River Board of California
770 Fairmont Avenue, Suite 100
Glendale, CA 91203-1035

Mr. Herb R. Guenther
Director
Arizona Department of Water Resources
3550 North Central Avenue
Phoenix, AZ 85012

Mr. James H. Davenport
Chief, Water Division
Colorado River Commission of
Nevada
555 E. Washington Avenue, Suite 3100
Las Vegas, NV 89101
(w/cy encl to ea)

IID Fallowing Program Verification

Fall 2005

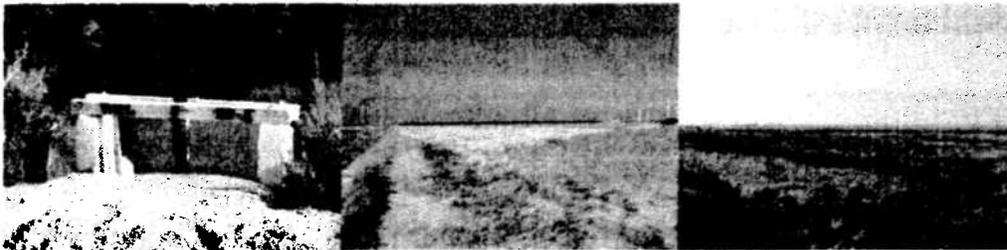
Five percent of the acreage in the IID fallowing program was checked in the verification program. See IID Payback Plan for detailed information on the program. Program verification notes are attached as A: Fallowed Field Verification.

Extraordinary conservation implementation is confirmed unconfirmed

David B. Clark 01/12/06
Signed Date

Observation: Green growth was viewed on some fields, which was attributed to the drafting of groundwater or localized rainfall (thunderstorms). IID staff indicated that Fallowing Program participants, in accordance with environmental mitigation requirements for potential air quality impacts, were required to implement dust control Best Management Practices (BMPs) when necessary. These BMPs include (but are not limited to) leaving vegetation residue on the field or seeding a cover crop prior to the fallowing start date.

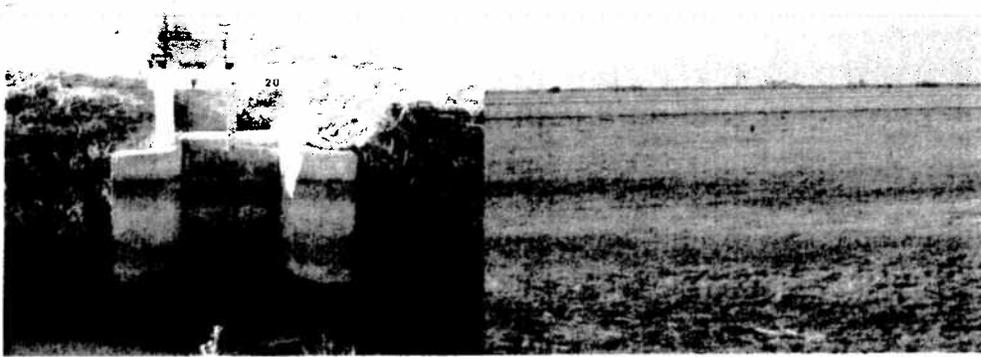
A: Fallowed Field Verification



Fallowing Program (FP) No. 12 Canal: East Highline; Gate No. 27A; 94.0 Acres;
Contract Price: \$564

Comments: Photo Nos. 1, 2 and 3, October 26, 2005; Wheat (Idle-Senescent Wheat); Pin
Lock through Gate Cap; Soils: Sandy Loam; Water use history checked
from IID records;

Planned crops: Summer 2005: Idle; Fall 2005: Idle; Winter 2005: Wheat; Spring 2006:
Wheat; Summer 2006: Idle



FP No. 24; Canal: F; Gate No. 20; 144.6 Acres; Contract price: \$30,366

Comments: Photo Nos. 4 and 5, October 26, 2005; Bermuda Grass (Idle); Pin Lock through Gate Cap; Soils: Silty Clay; Water use history checked from IID records;

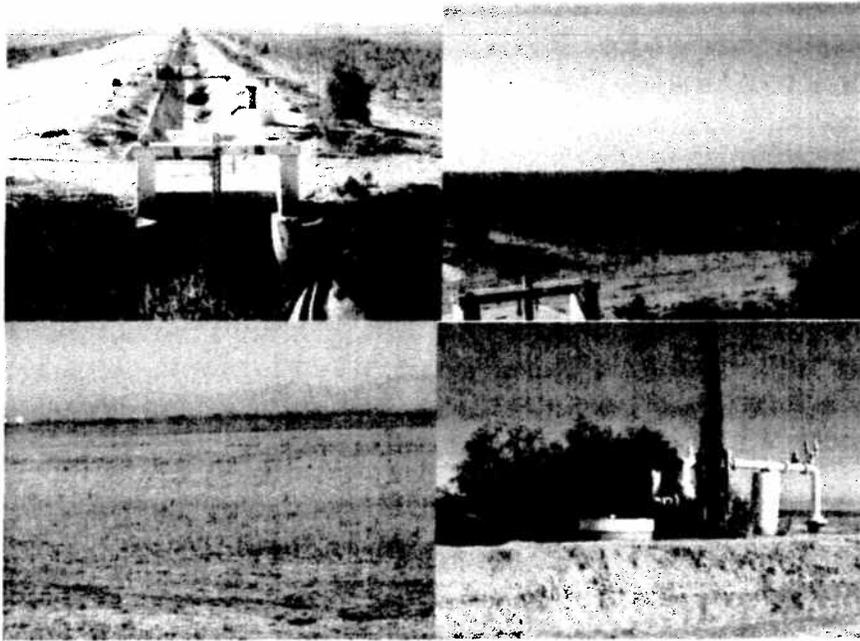
Planned crops: Summer 2005: Bermuda Grass; Fall 2005: Bermuda Grass; Winter 2005: Bermuda Grass; Spring 2006: Bermuda Grass; Summer 2006: Bermuda Grass



FP No. 36; Canal: G; Gate 22; 142.1 Acres; Contract price: \$25,578

Comments: Photo Nos. 6 and 7, October 26, 2005; Bermuda Grass (Idle); Pin Lock through Gate Cap; Soils: Silty Clay; Water use history checked from IID records;

Planned crops: Summer 2005: Bermuda Grass; Fall 2005: Bermuda Grass; Winter 2005: Bermuda Grass; Spring 2006: Bermuda Grass; Summer 2006: Bermuda Grass



FP No. 81; Canal: Q; Gate No. 15; 87.0 Acres; Contract price: \$26,622
 Comments: Photo Nos. 8, 9 10 and 11, October 26, 2005; Sudan Grass (Idle); Pin Lock
 through Gate Cap; Soils: Sandy Loam; Water use history checked from IID
 records;
 Planned crops: Summer 2005: Alfalfa; Fall 2005: Alfalfa; Winter 2005: Alfalfa; Spring
 2006: Alfalfa; Summer 2006: Alfalfa



FP No. 100; Canal: Woodbine 2; Gate 5F; 124.9 Acres; Contract price: \$29,976
 Comments: Photo Nos. 12 and 13, October 26, 2005; Bermuda Grass (Idle); Pin Lock
 through Gate Cap; Soils: Sandy Loam; Water use history checked from IID
 records;
 Planned crops: Summer 2005: Bermuda Grass; Fall 2005: Bermuda Grass; Winter 2005:
 Bermuda Grass; Spring 2006: Bermuda Grass; Summer 2006: Bermuda
 Grass

IID Fallowing Program Verification

Spring 2005

Five percent of the acreage in the IID fallowing program was checked in the verification program. See IID Payback Plan for detailed information on the program. Program verification notes are attached as A: Fallowed Field Verification.

Extraordinary conservation implementation is confirmed unconfirmed

David B. Chubb 08/15/05
Signed Date

Observation: Green growth was viewed on some fields, which was attributed to the drafting of groundwater or localized rainfall (thunderstorms). IID staff indicated that Fallowing Program participants, in accordance with environmental mitigation requirements for potential air quality impacts, were required to implement dust control Best Management Practices (BMPs) when necessary. These BMPs include (but are not limited to) leaving vegetation residue on the field or seeding a cover crop prior to the fallowing start date.

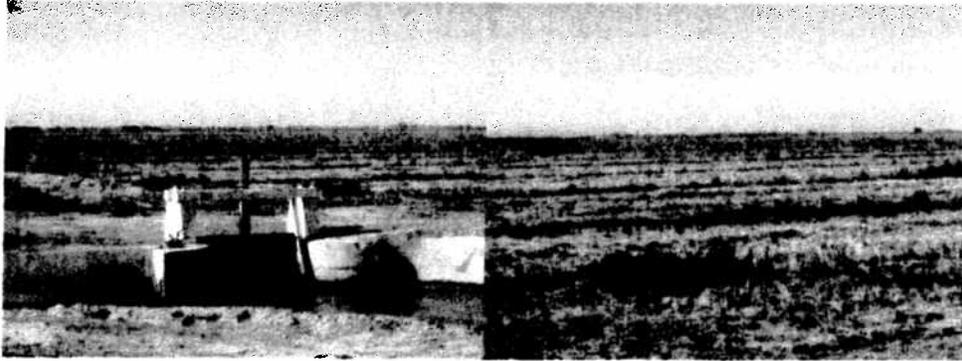
A: Fallowed Field Verification



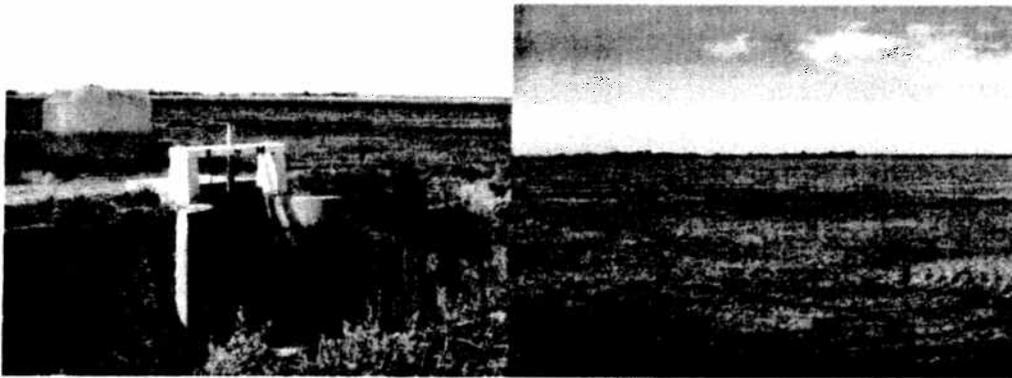
Fallowing Program (FP) No. 117 Canal: South Alamo; Gate No. 72; 79.6 Acres;
Contract Price: \$23,402

Comments: Photo Nos. 1 and 2, April 6, 2005; No Crop (Idle-Alfalfa Volunteers);
Reconfigured Delivery Canal due to Freeway Construction; Soils: Sandy
Loam; Water use history checked from IID records;

Planned crops: Summer 2004: Alfalfa; Fall 2004: Alfalfa; Winter 2004: Alfalfa; Spring
2005: Alfalfa; Summer 2005: Alfalfa



FP No. 94; Canal: Oxalis; Gate No. 9; 158.8 Acres; Contract price: \$44,782
Comments: Photo Nos. 3 and 4, April 6, 2005; No Crop (Idle); Pin Lock through Gate
Cap; Soils: Clay; Water use history checked from IID records;
Planned crops: Summer 2004: Sugar Beets; Fall 2004: Sugar Beets; Winter 2004: Sugar
Beets; Spring 2005: Sugar Beets; Summer 2005: Sugar Beets



FP No. 64; Canal: S; Gate 14; 147.8 Acres; Contract price: \$36,359
Comments: Photo Nos. 5 and 6, April 6, 2005; No Crop (Idle); Pin Lock through Gate
Cap; Soils: Silty Clay; Water use history checked from IID records;
Planned crops: Summer 2004: Bermuda Grass; Fall 2004: None; Winter 2004: Oats;
Spring 2005: None; Summer 2005: Sudan Grass



FP No. 54; Canal: Z; Gate No. 4; 67.4 Acres; Contract price: \$10,110
Comments: Photo Nos. 7 and 8, April 6, 2005; No (Idle-Alfalfa); Pin Lock through Gate
Cap; Soils: Sandy and Rocky; Water use history checked from IID records;
Planned crops: Summer 2004: None; Fall 2004: Melons; Winter 2004: None; Spring
2005: Melons; Summer 2005: None



FP No. 12; Canal: Wisteria; Gate 15; 155.7 Acres; Contract price: \$42,973
Comments: Photo Nos. 9 and 10, April 6, 2005; No; Soils: Clay; Water use history
checked from IID records;
Planned crops: Summer 2004: Bermuda Grass; Fall 2004: Bermuda Grass; Winter 2004:
Bermuda Grass; Spring 2005: Bermuda Grass; Summer 2005: Bermuda
Grass

**Spot Check Summary - Spring 2005
Coachella Valley Water District Extraordinary Conservation Plan**

Entity	Acres	Total Acres	Acres Saved *	Total Feet Saved *	Meter Check	Field Check	Water User Interview **	Crop 1999	Crop 2004	Crop Spring 2005	Satellite Imagery Crop Check	System 1999	System 2004
20	17.9	267.6	-1.6	51.9	Y	Y	PI	Vegetable	Dates	Dates	Y	Surface	Surface
178	53.7	916.5	24.4	185.1	Y	Y	PI	Dates	Dates	Dates	Y	Drip	Drip
198	88	1272.8	35.2	237.2	Y	Y	N	Citrus	Citrus	Citrus	Y	Drip	Drip
233	80.8	1353.6	-2.3	234.9	Y	Y	PI	Citrus/Grapes	Citrus/Grapes	Citrus/Grapes	Y	Drip	Drip
246	43.2	1779.9	19.4	590.8	Y	Y	Y	Grapes	Grapes	Grapes	Y	Drip	Drip
267	78.3	211.3	-7.4	173.6	Y	Y	N	Vegetable	Vegetables	Fallow	N	Sprinkler/Sub-surface Drip	Sprinkler/Sub-surface Drip
269	60.1	327.7	-37.1	14.8	Y	Y	N	Vegetable	Vegetables	Peppers	N	Sub-surface Drip	Sub-surface Drip
288	35.4	1736.7	51.5	571.4	Y	Y	Y	Citrus	Citrus	Citrus	Y	Surface	Surface
320	79.5	996	92	277.1	Y	Y	PI	Vegetable	Vegetables	Corn	Y	Surface	Surface
339	28.5	784.1	46.8	197.5	Y	Y	PI	Grapes	Grapes	Grapes	Y	Surface	Surface
348	231.7	755.6	-7	150.7	Y	Y	PI	Grapes	Grapes	Grapes	Y	Drip	Drip
352	39	523.9	82	157.7	Y	Y	N	Vegetable	Vegetables	Fallow	N	Surface	Surface
371	157.2	484.9	60.9	75.7	Y	Y	Y	Vegetable	Vegetables	Fallow	N	Surface	Surface
440	38.6	822.7	73.2	270.7	Y	Y	N	Vegetable	Vegetables	Corn	N	Surface	Surface
451	136.1	2148.5	187.6	957.7	Y	Y	N	Alfalfa/Vegetal	Pasture	Pasture	Y	Surface	Surface
453	63.4	2012.4	40.8	770.1	Y	Y	PI	Dates	Dates	Dates	Y	Drip/Surface	Drip/Surface
467	38.4	249.7	-120.1	53.5	Y	Y	N	Grapes	Citrus/Grapes	Citrus/Grapes	Y	Drip	Drip
518	40.1	862.8	-110	160.7	Y	Y	PI	Dates/Citrus	Dates/Citrus	Dates/Citrus	Y	Surface	Surface
578	273.1	1701.3	206.7	519.9	Y	Y	Y	Dates	Dates	Dates	Y	Drip	Drip
628	143.5	1923.4	208.5	799.3	Y	Y	N	Sudan	Corn/Vegetables	Carrots/Fallow	N	Sprinkler	Sprinkler
647	118	1114	-103.8	173.3	Y	Y	N	Vegetable	Vegetables	Fallow	N	Sprinkler	Sprinkler
668	133	133	181	181	Y	Y	PI	Grapes	Vegetables	Vegetables	N	Sprinkler/Sub-surface Drip	Sprinkler/Sub-surface Drip
720	74.6	1428.2	78.3	313.2	Y	Y	N	Vegetable	Vegetables	Vegetables	N	Sub-surface Drip	Sub-surface Drip
721	25.6	1949	-70	729.3	Y	Y	PI	Dates/Pecans/C	Dates/Pecans	Dates/Pecans	Y	Surface	Surface
929	70.8	1184.8	28.7	202	Y	Y	N	Dates	Dates	Dates	Y	Surface	Surface
								Vegetable	Vegetables	Fallow	N	Sub-surface Drip	Sub-surface Drip

2149 AC



United States Department of the Interior



BUREAU OF RECLAMATION
Yuma Area Office
7301 Calle Agua Salada
Yuma, Arizona 85364

IN REPLY REFER TO:
YAO-7300
WTR-4.03

SEP 3 1 2005

MEMORANDUM

To: Jack Simes
Manager, External Coordination Group

From: Ty Mull *Ty Mull /S/*
Agricultural Engineer

Subject: Trip Report, Coachella Valley Water District IOPP
Extraordinary Water Conservation Spot Check, Tuesday,
October 11, 2005 thru Thursday, April 13, 2005

I performed the fall 2005 spot checks of the Coachella Valley Water District (CVWD) payback plan in order to monitor the implementation of the plan.

During this trip I compiled a random list of entities based on water savings and program acreage. My spot check included 16% of the reported saved water totals and approximately 6% of the lands in the program. I checked the water data, cropping data and irrigation systems from 1999 data and compared it to the 2005 data. I performed a field verification of the data using water meter numbers servicing the parcels of land in the program and satellite imagery. I performed interviews with 3 growers in the program to obtain feedback on the program. These growers were different from those interviewed in the fall 2004 and spring 2005 spot checks. Entity numbers were used in lieu of grower's name and meter number by request of CVWD in order to protect the privacy of the program participants.

Attached are a summary spreadsheet and some example irrigation scheduling and salinity survey reports produced by J. M. Lord Inc. for four different entities.

bc: Boulder Canyon Operations Office, Boulder City, NV,
Attn: BC00-4230 (Jones) (w/att)

MR. OFFICIAL OFFICE COPY RECEIVED		
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FOLDER ID		
KEYWORD		

Spot Check Summary - Fall 2005
Coachella Valley Water District Extraordinary Conservation Plan

Entity	Acres	Total Acres	Acres Saved	Total Feet Saved	Meter Check	Field Check	Water User Interview Date	Crop 1999	Crop Fall 2005	System 1999	System 2005	Meter Condition
48	233.8	574.6	785.7	945.5	Y	Y	Fall 04	Dates/Turf	Fallow to be developed	Surface	None	Operational
362	626.6	1449.2	750.6	1701.7	Y	Y	Spring 05	Vegetables	Vegetables being planted	Surface	Surface	Operational
443	112.1	112.1	13.2	13.2	Y	Y	Fall 04	Dates	Dates and Palms	Surface	Surface	Operational
505	190.0	822.6	10.9	951.2	Y	Y	No Interview	Grapes	Grapes	Drip	Drip	Operational
508	148.9	340.8	1.5	159.8	Y	Y	Fall 04	Dates	Dates	Surface	Surface	Operational
529	58.0	632.6	-5.2	940.3	Y	Y	Fall 05	Lemons	Lemons	Drip	Drip	1 Not Operational, 3 Operational
646	79.9	191.9	145.2	158.4	Y	Y	Fall 04	Dates	Dates and Melons	Drip	Drip	Operational

1999 AC