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"The Green Spot of the Columbia Basin"

# South Columbia Basin Irrigation District

OFFICE: 1135 E. HILLSBORO, SUITE A

TELEPHONE 509/547-1735, FAX 509/547-8669 • P.O. BOX 1006 • PASCO, WASHINGTON 99301

September 6, 2007

Office of Pesticide Programs  
Regulatory Public Docket 7-502P  
U.S. Environmental Protection Agency  
1200 Pennsylvania Avenue NW  
Washington, D.C. 20460-0001

Dear Sir or Madam:

Subject: Docket ID No. EPA-HQ-OPP-2007-0588

Thank you for the opportunity to comment on the Environmental Fate and Ecological Risk Assessment for the Reregistration of Acrolein. I serve the South, East, and Quincy Columbia Basin Irrigation Districts (Districts), Columbia Basin Project, as staff agronomist. My primary duty is coordination of the Projects' integrated vegetation management program. I have supervised and coordinated acrolein applications and monitoring for over 25 years.

My comments will reference the Table of Contents by enumerated section and page as follows:

#### 4.3 Monitoring Data

*Page 34 - "Washington Department of Agriculture, 2004. These data only provide supplemental information on the occurrence of acrolein in irrigation systems; however, these monitoring data are useful for characterizing applications of acrolein to irrigation canals in Washington State" and Table 9 (page 36).*

#### Comments:

The 2004 Monitoring Data "only provide supplemental information" and are NOT "useful for characterizing applications of acrolein to irrigation canals in Washington State.

The 2004 irrigation season was the final "non-penalty" period for the original NPDES permit. The Districts were evaluating "stacked treatments" where the original bolus of treated water was retreated at intervals as it transited the canal (high concentration/short duration), and "connected treatments" where individual applications met end to end (low concentration/long duration). There was also the desire to be able to track higher concentrations with the hand-

held acrolein colorimeter to accurately depict time of transit from point of application to point of compliance as the chemical was diluted in the wasteways.

Table 9 on page 36 is somewhat misleading in that it does not provide the chronology for the exceedances, and cannot distinguish between “stacked” or “connected” treatments. If ranked by date of application and “stacked” or “connected,” the data could easily be inverted. The largest exceedances occur during the first applications of the irrigation season from “stacked” applications at high concentrations of short duration. The decrease in acrolein concentration at POC progresses through July, August, and September. It is also a result of instituting “connected” low concentration/long duration treatments at various sites throughout the season.

If Table 9 (page 36) were presented as ranked by date through the 2004 application season, it could demonstrate the progress and knowledge gained by the Districts at the expense of the exceedances. The Districts have adopted the use of low concentration/long duration treatments. Monitoring data for the 2005 and 2006 application seasons for the South Columbia Basin Irrigation District (enclosures 1 and 2, respectively) provide a more accurate characterization of acrolein applications to irrigation canals in Washington State. The 2005 and 2006 Discharge Monitoring Reports represent over 350 individual samples taken from irrigation return flows with no exceedances of NPDES parameters for acrolein. I would like to emphasize that these samples are taken within the irrigation system, without a mixing zone, and demonstrate adequate protection of “natural waters.”

The Districts recognized the need for a more effective means of tracking treated water and began using Rhodamine WT florescent dye in 2004. The South Columbia Basin Irrigation District purchased a hand-held fluorometer (high concentrations) and a programmable data sond (very low concentrations) to track acrolein treated or untreated water transiting the canal and wasteway system to POC. This method provides accurate measurement for time of transit and initiation of compliance sampling events. The dye tracking provided continued improvement through the 2004 season and NPDES permit compliance in 2005 and 2006.

#### 6.1.1.1 Acute Risk (6.1.1 Aquatic Animals)

*Page 55 – “Data were provided by Washington State Department of Agriculture for 2004. Monitoring data are useful for characterizing applications of acrolein to irrigation canals in Washington State and associated risks to aquatic wildlife (Table 27).”*

#### Comments:

The data for 2004 monitoring are NOT useful for characterizing applications of acrolein to irrigation canals in Washington State, and the Districts request that EPA consider the 2005 and

2006 monitoring data provided as enclosures 1 and 2, respectively. These data confirm NPDES permit compliance and would reduce exceedance for risk LOC's by several factors.

The 2005 data (enclosure 1) show four samples (14.9, 12.7, 9.2, and 4.4 ug/L) between 4 and 21 ug/L (permit maximum). These four samples were taken during two sampling events (two for each event) during the period of peak concentration above the POC. Five additional samples (3.7, 3.3, 2.8, 2.3, and 2.1 ug/L) were between 2 and 4 ug/L. Ninety-five percent of the 2005 samples were at or below 2 ug/L.

The 2006 data (enclosure 2) show five samples (4.8, 4.6, 3.9, 3.4, and 3.1 ug/L) between 3 and 21 ug/L (permit maximum). Ninety-seven percent of the 2006 samples were below 2 ug/L. These data are from irrigation systems above the POC. They represent peak concentrations of short duration pulses (4 to 8 hours) that can enter "natural waters." These data are in marked contrast to the narrative on LOC from page 55 and Table 27 on pages 56 and 57.

#### 6.1.1.2 Chronic Risk

*"The extent to which acrolein would remain present in the treated area under flowing water conditions for periods of 21 or 60 days and whether there would be any receptors left after treatment are uncertain.*

#### Comments:

The Washington State Department of Agriculture SLN provides for a maximum acrolein application duration of eight hours. Monitoring data for 2005 and 2006 (enclosed) demonstrate nondetection of acrolein residues after the treated bolus has passed a certain point in the irrigation system. Acrolein is either present (maximum 8-hour duration) or absent (nondetectable) as it transits the irrigation canal. Treatments at 3-week (21-day) intervals provide an 8-hour maximum exposure period, and the Districts treat at rates that are less than 3 mg/L to points of compliance.

In the previous section (6.1.1.1 Acute Risk) EPA states that "acrolein concentrations had dissipated substantially from initial treatment levels." With an exposure for 8 hours (21-day interval) at 3 mg/L and dissipation throughout the period of transit, I would not expect that the chronic risk LOC for freshwater fish or invertebrates would be exceeded for a 21- or 60-day average concentration.

### 6.1.2 Terrestrial Animals

*Page 60 – “For listed mammals, water treatment concentrations could not exceed 5.8 mg/L. For listed birds, the treatment concentration could not exceed 3.1 mg/L in order not to exceed acute risk to endangered species LOC.”*

#### Comments:

Page 58 EPA (last paragraph Section 6.1.1.1 Acute Risk) references monitoring data in Washington State that indicates the acrolein concentrations travel between 23 and 32 miles in a 24-hour period. Referenced treatments were at concentrations of 0.98 mg/L and 1.5 mg/L. These concentrations are consistent with Columbia Basin Project irrigation districts' practice of limiting applications that eventually reach POC to less than 3 mg/L.

On page 59 EPA “assumed that the animal drinks exclusively from treated canal water and that 100% of drinking water consumed by an animal in a day contains acrolein at a concentration of 15 mg/L.”

The Districts realize that EPA desires protection and that the LOC might be several factors of magnitude beyond what is actually occurring within the treated irrigation system, but the scenario “assumed” for terrestrial animals is highly unlikely. The animal would need to travel 23 to 32 miles per day to keep pace with the application, which does indeed dissipate substantially (3.6 times to 12 times in this example), without stopping for rest or to feed.

The Districts' practice of maintaining application rates below 3 mg/L to points of compliance, and the improbability of an animal performing this feat of endurance, should ensure RQ values remain below the acute endangered species LOC.

### 6.2 Risk Discussion

*Page 64 – “Other targeted monitoring indicates that acrolein detections are not uncommon outside of the treatment area.”*

#### Comments:

Reference South District discharge monitoring (enclosures) for 2005 and 2006. As previously noted, discharges exceeding NPDES permit parameters for acrolein are uncommon outside of the treatment area.

*Page 64 – “Currently the label does not provide any guidance to users on how water should be “held.”*

Comments:

The Magnacide H Herbicide Application and Safety Manual on page 7 (Directions for Use) states that “Water treated with Magnacide H Herbicide must be used for irrigation of fields, either crop bearing, fallow or pasture, where the treated water remains on the field OR held for 6 days before being released into fish bearing waters or where it will drain into them.”

Acrolein applicators and supervisory personnel and irrigation district employees are well aware that this means that the preferred method to manage treated irrigation water is to deliver it to farms where it will be consumed by irrigation to land (crop bearing, fallow, or pasture). “Held” means to contain outflow of treated water until it is consumed by irrigation delivery, diverted into a ponded impoundment, or simply captured and ponded within the irrigation canals for six days. District personnel are extensively trained in irrigation system operation, and the primary duty of the water managers is to move and control water flow through various gates and control structures as it transits the system. It is not the duty or the responsibility of the EPA, through product labeling, to teach irrigation entities how to manage their systems.

Cooperation between the Districts and the United States Bureau of Reclamation provides both guidance and training in irrigation system operation and maintenance. Oversight, training, and coordination are provided by several irrigation organizations (e.g., Northwest Irrigation Operators) and industry associations. Federal oversight and operation of irrigation systems does not fall within the EPA jurisdiction and should not be a FIFRA label concern. The 2005 and 2006 discharge monitoring reports evidence that compliance with NPDES permit discharge parameters is the goal, and that adequate training in operation and maintenance is already in place.

6.2.1 Risks to Aquatic Organisms

Comments:

Again, the 2004 monitoring data “only provide supplemental information,” and the Districts ask that EPA consider the 2005 and 2006 monitoring data presented in the enclosures when “characterizing applications of acrolein to irrigation canals in Washington State.”

*Page 68 – “Incomplete removal of moribund plant material may increase biological oxygen demand.”*

Comments:

Water quality monitoring by the South Columbia Basin Irrigation District indicates that there is a slight drop in DO (approximately 0.5 mg/L) in the treated bolus as it transits past our monitoring station (mile 38, Potholes East Canal). It is postulated that a drop from around 9.5 mg/L to 9 mg/L is caused by decreased metabolism or death of the algae within the treated bolus, or possibly scavenging of oxygen as the acrolein becomes hydrolyzed. This phenomenon has not been studied adequately, and no data exists to support or disprove either possibility. It should be noted that the DO readings return to pretreatment concentrations immediately after the treated water passes the monitoring station. It would appear that the inflow of fully oxygenated water would mitigate any loss due to the decomposition of effected vegetation, and that increased biological oxygen demand is not significant in flowing systems.

6.3.1 Terrestrial Animals

Comments:

As mentioned under the comments for Section 6.1.2, the “assumed” exposure scenarios used by EPA are highly unlikely. Acrolein concentrations dissipate as the treated bolus transits the system, and it is not reasonable for anyone to expect that the animals will run 23 to 32 miles per day to remain in contact with applications. In addition, LC50 and LD50 are results of exposure for 48 to 96 hours and not comparable to the maximum 8-hour exposure expected to occur from actual acrolein applications. The SLN for Washington restricts applications to 8 mg/L and 8-hour duration. I would request that EPA consider a maximum 8 mg/L concentration, maximum application (exposure) duration of 8 hours, and monitoring data for 2005 and 2006 to more accurately depict acrolein use in Washington State and resulting RQ and LOC values.

6.3 Risks to Terrestrial Organisms

*In Section 6.3.3 page 72 EPA states that “it is also possible that moribund animals are rapidly conveyed downstream and go unnoticed.”*

Comments:

I have spent over 26 years supervising and implementing both aquatic and terrestrial vegetation management on the Columbia Basin Project irrigation systems. I travel 25,000 miles per year on the job. Many of these miles are on ditch banks with the express intention of monitoring, observing, and evaluating pesticide applications and other vegetation management activities. I have observed all classes of animals using the facilities, and I also closely observe aquatic and terrestrial vegetation to evaluate efficacy of management and control activities. It is unlikely

Office of Pesticide Programs  
Environmental Protection Agency  
Page 7  
September 6, 2007

that moribund animals or vegetation exhibiting symptoms of acrolein exposure would go “unnoticed.” I have observed and monitored acrolein applications from start of application, throughout transit of the irrigation canal and wasteways, and taken the samples at POC for NPDES compliance. I have been on the ditch bank, observing and monitoring, for periods of time in excess of 24 hours where the application has traveled 35 miles or more. I have not observed moribund animals or terrestrial vegetation exhibiting symptoms of acrolein exposure from FIFRA label applications in my entire career.

I feel that the Environmental Fate and Ecological Risk Assessment for the Reregistration of Acrolein is flawed. Incomplete and atypical data were used “for characterizing applications of acrolein to irrigation canals in Washington State.” These data were used to calculate RQ’s and scenarios of exposure that are not valid.

I support the registration of acrolein and appreciate the opportunity provided through the OPP to comment on this document. If you have questions or additional correspondence, I can be contacted at (509) 531-2939 or at the South Columbia Basin Irrigation District at P.O. Box 1006, Pasco, Washington 99301-1006.

Thank you.

Sincerely,



Hugh McEachen  
Columbian Basin Project Agronomist

HM:kgn

Enclosures

cc: Shannon McDaniel, SCBID  
Craig Simpson, ECBID  
Darvin Fales, QCBID  
Craig Conley, USBR, Ephrata

A	B	C	D	E	F	I	J	K
1	2005 DISCHARGE MONITORING REPORT (DMR) FOR IRRIGATION DISTRICTS FOR NPDES GENERAL PERMIT # WAG-991000							
2	Directions for filling out this sheet (sheet 1) are on sheet 2							
3	IRRIGATION DISTRICT NPDES COVERAGE NO.: WAG-991009							
4	IRRIGATION DISTRICT NAME and ADDRESS:							
5	South Columbia Basin Irrigation District							
6	1135 E. Hillsboro, Suite A							
7	Pasco, Washington 99301						8260	AVERAGE FLOW
8							24	FIELD METHC
9							Hour	SEE REMARK
10	SAMPLE STATION NAME	CORRESPONDING TREATMENT SITE NAME	SAMPLE DATE	SAMPLE TIME	TREATMENT DATE	TREATMENT TIME	Result (ug/L)	Result (ug/L)
11		WB 10 Broad Crested Weir	5/17/2005	4:00	5/16/2005	13:00	ND	
12	WB5WW1	WB 10 E Check	5/17/2005	6:00	5/16/2005	13:00	1.2	59
13	WB5WW1	WB 10 E Check	5/17/2005	18:16	5/16/2005	13:00	1.6	56
14	WB5WW1	WB 10 E Check	5/17/2005					
15		WB 5 Headworks			5/23/2005	6:33		
16		WB 5 3rd Radial Gate	5/24/2005	6:00	5/23/2005	5:30	ND	39
17	WB5WW1	WB 5 3rd Radial Gate	5/24/2005	8:00	5/23/2005	5:30	ND	39
18		WB 5 3rd Radial Gate						
19		WB 5 3rd Radial Gate	5/25/2005	0:45	5/23/2005	5:30	ND	40
20	WB5WW1	WB 5 3rd Radial Gate						
21								
22		PEC @ Mile 32	5/17/2005	6:00	5/16/2005	7:27	ND	109
23	PE 16.4 WW	PEC @ Mile 32	5/17/2005	8:00	5/16/2005	7:27	ND	109
24	PE 16.4 WW	PEC @ Mile 32	5/17/2005	18:30	5/16/2005	7:27	1.6	106
25	PE 16.4 WW	Lower PE 41.2 Headworks	5/17/2005	13:00	5/16/2005	7:42	2	115
26	PE 16.4 WW	Lower PE 41.2 Headworks	5/17/2005	15:00	5/16/2005	7:42	3.3	109
27								
28		WB 5 Headworks			5/23/2005	6:33		
29		WB 5 3rd Radial Gate	5/24/2005	15:00	5/23/2005	5:30	ND	108
30	PE 16.4 WW	WB 5 3rd Radial Gate	5/24/2005	17:00	5/23/2005	5:30	ND	108
31	PE 16.4 WW	WB 5 3rd Radial Gate						
32		WB 5 3rd Radial Gate	5/25/2005	13:30	5/23/2005	5:30	ND	107
33	PE 16.4 WW							
34		PEC @ MILE 47			5/17/2005	06:58		
35		PEC @ MILE 47			5/17/2005	07:20		
36		P.E.47 INLET @ HEAD			5/17/2005	12:00		
37		P.E.47 J			5/17/2005	13:27		
38		PE.47 RELIFT			5/17/2005	18:00	12.7	188.4
39	Esquatzel Diversion	PE.65	5/18/2005	7:30	5/17/2005	18:00	14.9	188.4
40	Esquatzel Diversion	PE.65	5/18/2005	9:30	5/17/2005	18:00		
41								
42	Esquatzel Diversion	PE.65	5/19/2005	7:30	5/17/2005	18:00	0	174.04
43								
44	Esquatzel Diversion	P.E. 55 @ Siphon Discharge	5/24/2005	0:30	5/23/2005	07:50	ND	174.04
45	Esquatzel Diversion	P.E. 55 @ Siphon Discharge	5/24/2005	2:30	5/23/2005	07:50	ND	174.04



A	B	C	D	E	F	I	J	K
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2	<i>Directions for filling out this sheet (Sheet 1) are on sheet 2</i>							
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6	1135 E. Hillisboro, Suite A							
7	Pasco, Washington 99301							
8						8260	AVERAGE 24 Hour	FLOW FIELD METH SEE REMAR
9								CFS
10	SAMPLE STATION NAME	CORRESPONDING TREATMENT SITE NAME	SAMPLE DATE	SAMPLE TIME	TREATMENT DATE	TREATMENT TIME	Result (ug/L)	Result(ug/L)
11		WB 10 Broad Crested Weir	6/1/2005	0:30	5/31/2005	5:45	ND	
12	WB5WW1	WB 10 E Check	6/1/2005	2:30	5/31/2005	12:20	ND	54
13	WB5WW1	WB 10 E Check	6/1/2005	2:30	5/31/2005	12:20	ND	54
14	WB5WW1 (REPLICATE)	WB 10 E Check	6/1/2005	2:30	5/31/2005	12:20	<2	54
15	WB5WW1	WB 10 E Check	6/1/2005	12:45	5/31/2005	12:20	ND	0.25 46
16		WB 5 Headworks			6/6/2005	6:58		
17		WB 5 Discharge of White Bluffs #1	6/6/2005	21:30	6/6/2005	5:45	ND	54
18	WB5WW1	WB 5 Discharge of White Bluffs #1	6/6/2005	21:30	6/6/2005	5:45	ND	54
19	WB5WW1	WB 5 Discharge of White Bluffs #1	6/6/2005	23:30	6/6/2005	5:45	ND	54
20		WB 10 Broad Crested Weir			6/27/2005	5:40		
21		WB 10 E Check	6/27/2005	21:30	6/27/2005	8:10	ND	60
22	WB5WW1	WB 10 E Check	6/27/2005	23:30	6/27/2005	8:10	ND	60
23	WB5WW1	WB 10 E Check	6/27/2005	23:30	6/27/2005	8:10	ND	60
24		WB 10 E Check	6/28/2005	9:50	6/27/2005	8:10	ND	58
25	WB5WW1	WB 10 E Check	6/28/2005	9:50	6/27/2005	8:10	ND	58
26		WB 5 Headworks			6/6/2005	6:58		
27		WB 5 Discharge of White Bluffs #1	6/6/2005	5:45	6/6/2005	5:45		
28		WB 5 G Headworks	6/6/2005	5:45	6/6/2005	5:45		
29		WB 5 G Headworks	6/6/2005	5:45	6/6/2005	5:45		
30		WB 5 G Headworks	6/6/2005	5:45	6/6/2005	5:45		
31	PE16.4	PE 41.2C @ Sheffield Rd.	6/7/2005	3:30	6/6/2005	15:02	ND	175
32	PE16.4	PE 41.2C @ Sheffield Rd.	6/7/2005	5:30	6/6/2005	15:02	ND	173
33	PE16.4	PE 41.2C @ Sheffield Rd.	6/7/2005	7:30	6/6/2005	15:02	ND	173
34	PE16.4	PE 46.2 Headworks	6/7/2005	17:30	6/7/2005	07:32	ND	165
35	PE16.4	PE 46.2 Headworks	6/7/2005	19:30	6/7/2005	07:32	ND	165
36		PE 46.2 Headworks	6/8/2005	5:30	6/7/2005	07:32	ND	164
37	PE16.4	PE 46.2 Headworks	6/8/2005	7:30	6/7/2005	07:32	ND	164
38	PE16.4	PE 46.2 Headworks	6/8/2005	7:30	6/7/2005	07:32	ND	164
39	PE16.4	PE 46.2 Headworks	6/8/2005	17:30	6/7/2005	07:32	ND	152
40		PEC @ Mile 32	6/14/2005	6:30	6/13/2005	10:15	ND	115
41	PE16.4	PEC @ Mile 32	6/14/2005	8:30	6/13/2005	10:15	ND	115
42	PE16.4	PEC @ Mile 32	6/14/2005	8:30	6/13/2005	10:15	ND	115
43	PE16.4	PEC @ Mile 32	6/14/2005	10:30	6/13/2005	10:15	ND	115
44	PE16.4	PEC @ Mile 32	6/14/2005	12:30	6/13/2005	10:15	ND	115
45	PE16.4	PEC @ Mile 32	6/14/2005	23:00	6/13/2005	10:15	2.00	0.40 139



	A	B	C	D	E	F	I	J	K	
1	<b>2005 DISCHARGE MONITORING REPORT (DMR) FOR IRRIGATION DISTRICTS FOR NPDES GENERAL PERMIT # WAG-991000</b>									
2	<i>Directions for filling out this sheet (sheet J) are on sheet 2</i>									
3	IRRIGATION DISTRICT NPDES COVERAGE NO.:	WAG-991009								
4	IRRIGATION DISTRICT NAME and ADDRESS:	South Columbia Basin Irrigation District 1135 E. Hillsboro, Suite A Pasco, Washington 99301								
5										
6										
7										
8										
9										
10	SAMPLE STATION NAME	CORRESPONDING TREATMENT SITE NAME	SAMPLE DATE	SAMPLE TIME	TREATMENT DATE	TREATMENT TIME	Result(ug/l)	Result(ug/l)	Hour	FIELD METHOD: SEE REMARKS*****
11		WB 5 Headworks			7/5/2005	8:42				CFS
12		WB 5 G Headworks			7/5/2005	7:45				
13	WBSWW/1	WB 5 Discharge of White Bluffs #1	7/5/2005	21:30	7/5/2005	5:35	ND	0	24	AVERAGE
14	WBSWW/1	WB 5 Discharge of White Bluffs #1	7/5/2005	23:35	7/5/2005	5:35	ND	0	0	FLOW
15										
16	WBSWW/1	WB 5 Discharge of White Bluffs #1	7/6/2005	13:30	7/5/2005	5:35	ND	0	0	52
17										
18		WB 10 Broad Crested Weir								
19	WBSWW/1	WB 10 Double CHOs	7/12/2005	2:30	7/11/2005	5:30	ND	0	0	62
20	WBSWW/1	WB 10 Double CHOs	7/12/2005	4:30	7/11/2005	5:30	ND	0	0	62
21	WBSWW/1	WB 10 Double CHOs	7/12/2005	19:40	7/11/2005	5:30	ND	0	0	55
22										
23		WB 10 Broad Crested Weir								
24	WBSWW/1	WB 10 Double CHOs	7/26/2005	21:30	7/26/2005	10:10	ND	0	0	76
25	WBSWW/1	WB 10 Double CHOs	7/26/2005	23:30	7/26/2005	10:10	ND	0	0	76
26										
27	WBSWW/1	WB 10 Double CHOs	7/27/2005	15:11	7/26/2005	10:10	ND	0	0	76
28										
29	PE16.4 WW	PE 41.2 Headworks	7/5/2005	23:00	7/5/2005	5:34	ND	0	0	172
30										
31	PE16.4 WW	PE 41.2 Headworks	7/6/2005	1:05	7/5/2005	5:34	ND	0	0	172
32	PE16.4 WW	PE 41.2C @ Sheffield Road	7/6/2005	6:00	7/5/2005	15:17	ND	0	0	179
33	PE16.4 WW	PE 41.2C @ Sheffield Road	7/6/2005	8:00	7/5/2005	15:17	ND	0	0	165
34	PE16.4 WW	WB5G Headworks	7/6/2005	10:00	7/5/2005	7:45	ND	0	0	172
35	PE16.4 WW	WB5G Headworks	7/6/2005	12:00	7/5/2005	7:45	ND	0	0	172
36	PE16.4 WW	PE 41.2C @ Sheffield Road	7/6/2005	15:30	7/5/2005	15:17	ND	0	0	137
37	PE16.4 WW	PE 46.2 Headworks	7/6/2005	18:00	7/6/2005	5:34	ND	0	0	137
38	PE16.4 WW	PE 46.2 Headworks	7/6/2005	20:00	7/6/2005	5:34	ND	0	0	137
39										
40	PE16.4 WW	PE 46.2 Headworks	7/7/2005	6:00	7/6/2005	5:34	ND	0	0	151
41	PE16.4 WW	PE 46.2 Headworks	7/7/2005	8:00	7/6/2005	5:34	ND	0	0	151
42										
43	PE16.4 WW	PE 46.2 Headworks	7/8/2005	6:00	7/6/2005	5:34	ND	0	0	179
44										
45	PE16.4 WW	Lower 41.2 Headworks	7/12/2005	7:00	7/12/2005	6:31	ND	0	0	152

	A	B	C	D	E	F	I	J	K
46	PE16.4 WW	Lower 41.2 Headworks	7/12/2005	8:30	7/12/2005	6:31	ND		152
47	PE16.4 WW	Lower 41.2 Headworks	7/12/2005	19:30	7/12/2005	6:31	ND	0	156
48	PE16.4 WW	PEC @ Mile 32	7/13/2005	6:00	7/11/2005	10:05	ND		155
49	PE16.4 WW	PEC @ Mile 32	7/13/2005	8:00	7/11/2005	10:05	ND		155
50	PE16.4 WW	PEC @ Mile 32	7/13/2005	19:40	7/11/2005	10:05	ND	0	126
51									
52	Esquatzel Diversion	PEC @ Mile 32	7/12/2005	21:00	7/11/2005	10:05	ND		139
53	Esquatzel Diversion	PEC @ Mile 32	7/12/2005	23:00	7/11/2005	10:05	ND	0	139
54									
55		PEC @ Mile 47			7/12/2005	6:00			
56		PEC 47 Inlet @ Head			7/12/2005	6:00			
57		PEC 47I			7/12/2005	10:30			
58		PEC 47 Relift			7/12/2005	12:15			
59	Esquatzel Diversion	PE 65	7/13/2005	7:00	7/12/2005	16:50	1		139
60	Esquatzel Diversion	PE 65	7/13/2005	9:00	7/12/2005	16:50	2.1		139
61	Esquatzel Diversion	PE 65	7/13/2005	20:10	7/12/2005	16:50	ND	1.033	133
62									
63									
64	Esquatzel Diversion	PE 55 @ Siphon Discharge	7/18/2005	22:30	7/18/2005	7:45	ND	0	108
65									
66	Esquatzel Diversion	PE 55 @ Siphon Discharge	7/19/2005	0:30	7/18/2005	7:45	ND		108
67	Esquatzel Diversion	PE 66 @ Sagemoor Rd.	7/19/2005	15:30	7/19/2005	8:00	ND		120
68	Esquatzel Diversion	PE 66 @ Sagemoor Rd.	7/19/2005	17:30	7/19/2005	8:00	1.5		120
69	Esquatzel Diversion	PE 59.4D @ Head	7/19/2005	23:00	7/19/2005	7:40	ND	0.375	120
70									
71	Esquatzel Diversion	PE 59.4D @ Head	7/20/2005	1:00	7/19/2005	7:40	ND		120
72	Esquatzel Diversion	PE 59.4D @ Head	7/20/2005	13:25	7/19/2005	7:40	ND		120
73	Esquatzel Diversion	PE 59.4 Ext. Headworks	7/20/2005	20:00	7/20/2005	8:00	ND		120
74	Esquatzel Diversion	PE 59.4 Ext. Headworks	7/20/2005	22:00	7/20/2005	8:00	ND	0	120
75									
76	Esquatzel Diversion	PE 59.4 Ext. Headworks	7/21/2005	10:15	7/20/2005	8:00	ND	0	120

A	B	C	D	E	F	I	J	K	L
1	2005 DISCHARGE MONITORING REPORT (DMR) FOR IRRIGATION DISTRICTS FOR NPDES GENERAL PERMIT # WAG-991000								
2	Directions for filling out this sheet (sheet 1) are on sheet 2								
3	IRRIGATION DISTRICT NPDES COVERAGE NO.: WAG-991009								
4	IRRIGATION DISTRICT NAME and ADDRESS:								
5	South Columbia Basin Irrigation District								
6	1135 E. Hillsboro, Suite A								
7	Pasco, Washington 99301								
8						8260	AVERAGE 24 Hour	FLOW SEE REMARKS*****	
9									
10	SAMPLE STATION NAME	CORRESPONDING TREATMENT SITE NAME	SAMPLE DATE	SAMPLE TIME	TREATMENT DATE	TREATMENT TIME	Result (mg/L)	Result(ug/L)	CFS
11		WB 5 Headworks			8/1/2005	5:40	ND		70
12	WB5W/W1	WB 5 Discharge of White Bluffs #1	8/1/2005	20:00	8/1/2005	5:40	ND		70
13	WB5W/W1	WB 5 Discharge of White Bluffs #1	8/1/2005	22:00	8/1/2005	5:40	ND	0	70
14									
15	WB5W/W1	WB 5 Discharge of White Bluffs #1	8/2/2005	8:00	8/1/2005	5:40	ND	0	78
16									
17		WB 10 Broad Crested Weir			8/22/2005	5:30			
18	WB5W/W1	WB 10 E Check	8/22/2005	21:00	8/22/2005	11:00	ND		62
19	WB5W/W1	WB 10 E Check	8/22/2005	23:00	8/22/2005	11:00	ND	0	66
20									
21	WB5W/W1	WB 10 E Check	8/23/2005	14:15	8/22/2005	11:00	ND	0	66
22									
23		WB 5 Headworks			8/29/2005	5:39			
24	WB5W/W1	WB 5 Discharge of White Bluffs #1	8/29/2005	21:00	8/29/2005	5:40	ND		53
25	WB5W/W1	WB 5 Discharge of White Bluffs #1	8/29/2005	23:00	8/29/2005	5:40	ND	0	53
26									
27	WB5W/W1	WB 5 Discharge of White Bluffs #1	8/30/2005	11:00	8/29/2005	5:40	ND	0	54
28									
29	WB5W/W1	WB 10 E Check	9/20/2005	8:30	9/19/2005	13:23	ND		52
30	WB5W/W1	WB 10 E Check	9/20/2005	10:30	9/19/2005	13:23	ND		54
31	WB5W/W1	WB 10 Broad Crested Weir	9/20/2005	23:30	9/19/2005	6:43	ND	0	53
32									
33	WB5W/W1	WB 10 Broad Crested Weir	9/21/2005	1:30	9/19/2005	6:43	ND		53
34	WB5W/W1	WB 10 Broad Crested Weir	9/21/2005	15:45	9/19/2005	6:43	ND	0	53
35									
36		WB 5 Headworks			9/26/2005	7:40			
37	WB5W/W1	WB 5 3rd Radial Gate	9/27/2005	7:15	9/26/2005	7:40	ND		45
38	WB5W/W1	WB 5 3rd Radial Gate	9/27/2005	9:00	9/26/2005	7:40	ND		46
39	WB5W/W1	WB 5 3rd Radial Gate	9/27/2005	20:00	9/26/2005	7:40	ND	0	46
40									
41		WB 5 Headworks			8/1/2005	5:40			
42		WB 5 Discharge of White Bluffs #1			8/1/2005	5:40			
43	PE 16.4 WW	PE 41.2 Headworks	8/2/2005	0:00	8/1/2005	5:50	ND		165
44	PE 16.4 WW	PE 41.2 Headworks	8/2/2005	2:00	8/1/2005	5:50	ND		165
45	PE 16.4 WW	WB 5 G Unit 227 (Jenks)	8/2/2005	6:30	8/1/2005	10:45	ND		194

	A	B	C	D	E	F	I	J	K	L
46	PE 16.4 WW	WB 5 G Unit 227 (Jenks)	8/2/2005	8:30	8/1/2005	10:45	ND		194	
47	PE 16.4 WW	WB 5 G Unit 227 (Jenks)	8/2/2005	19:00	8/1/2005	10:45	ND	0	202	
48	PE 16.4 WW	PE 46.2 Headworks	8/3/2005	17:00	8/3/2005	5:53	ND		179	
49	PE 16.4 WW	PE 46.2 Headworks	8/3/2005	19:00	8/3/2005	5:53	ND	0	179	
50	PE 16.4 WW	PE 46.2 Headworks	8/4/2005	5:00	8/3/2005	5:53	ND		179	
51	PE 16.4 WW	PE 46.2 Headworks	8/4/2005	7:00	8/3/2005	5:53	ND		179	
52	PE 16.4 WW	PE 46.2 Headworks	8/4/2005	17:00	8/3/2005	5:53	ND	0	179	
53	PE 16.4 WW	PE 46.2 Headworks	8/9/2005	7:30	8/8/2005	11:55	ND		145	
54	PE 16.4 WW	PE 46.2 Headworks	8/9/2005	9:30	8/8/2005	11:55	ND		145	
55	PE 16.4 WW	PEC @ Mile 32	8/9/2005	20:00	8/8/2005	11:55	ND	0	152	
56	PE 16.4 WW	PEC @ Mile 32	8/9/2005	7:00	8/9/2005	5:43	ND		159	
57	PE 16.4 WW	PEC @ Mile 32	8/10/2005	5:00	8/9/2005	5:43	ND	0	159	
58	PE 16.4 WW	PEC @ Mile 32	8/10/2005	7:00	8/9/2005	5:43	ND	0	159	
59	PE 16.4 WW	Lower 41.2 Headworks	8/11/2005	5:00	8/9/2005	5:43	<2	1		
60	PE 16.4 WW	Lower 41.2 Headworks	8/11/2005	5:00	8/9/2005	5:43	ND		159	
61	PE 16.4 WW	Lower 41.2 Headworks	8/10/2005	7:00	8/9/2005	5:43	ND	0	159	
62	PE 16.4 WW	Lower 41.2 Headworks	8/10/2005	5:00	8/9/2005	5:43	ND	0	159	
63	PE 16.4 WW	Lower 41.2 Headworks	8/10/2005	5:00	8/9/2005	5:43	ND	0	159	
64	PE 16.4 WW	Lower 41.2 Headworks	8/10/2005	5:00	8/9/2005	5:43	ND	0	159	
65	PE 16.4 WW	PE 41.2 Headworks	8/29/2005	23:30	8/29/2005	5:55	ND	0	194	
66	PE 16.4 WW	PE 41.2 Headworks	8/29/2005	23:30	8/29/2005	5:55	ND	0	194	
67		WB 5 Headworks			8/29/2005	5:39				
68		WB 5 Discharge of White Bluffs # 1			8/29/2005	5:40				
69	PE 16.4 WW	PE 41.2 Headworks	8/30/2005	1:30	8/29/2005	5:55	ND		194	
70	PE 16.4 WW	WB 5 G Unit 227 (Jenks)	8/30/2005	7:00	8/29/2005	11:11	ND		194	
71	PE 16.4 WW	WB 5 G Unit 227 (Jenks)	8/30/2005	9:00	8/29/2005	11:11	ND		194	
72	PE 16.4 WW	PE 41.2 Headworks	8/30/2005	12:00	8/29/2005	5:55	ND	0	187	
73	PE 16.4 WW	PE 46.2 Headworks	8/31/2005	2:00	8/30/2005	5:46	ND		194	
74	PE 16.4 WW	PE 46.2 Headworks	8/31/2005	4:00	8/30/2005	5:46	ND		194	
75	PE 16.4 WW	PE 46.2 Headworks	8/31/2005	15:00	8/30/2005	5:46	ND	0	194	
76	PE 16.4 WW	PE 46.2 Headworks	8/31/2005	15:00	8/30/2005	5:46	ND	0	194	
77	PE 16.4 WW	PEC @ Mile 32	9/6/2005	13:30	9/5/2005	13:39	ND		151	
78	PE 16.4 WW	PEC @ Mile 32	9/6/2005	15:30	9/5/2005	13:39	ND		159	
79	PE 16.4 WW	PEC @ Mile 32	9/6/2005	21:30	9/5/2005	13:39	ND		187	
80	PE 16.4 WW	PEC @ Mile 32	9/6/2005	23:30	9/5/2005	13:39	ND	0	187	
81	PE 16.4 WW	PEC @ Mile 32	9/6/2005	23:30	9/5/2005	13:39	ND	0	187	
82	PE 16.4 WW	Lower PE 41.2 Headworks	9/7/2005	0:30	9/6/2005	5:47	ND		187	
83	PE 16.4 WW	Lower PE 41.2 Headworks	9/7/2005	2:30	9/6/2005	5:47	ND		187	
84	PE 16.4 WW	Lower PE 41.2 Headworks	9/7/2005	12:00	9/6/2005	5:47	ND	0	168	
85	PE 16.4 WW	Lower PE 41.2 Headworks	9/7/2005	12:00	9/6/2005	5:47	ND	0	168	
86	PE 16.4 WW	PE 41.2 Headworks	9/27/2005	8:00	9/26/2005	8:27	ND		177	
87	PE 16.4 WW	PE 41.2 Headworks	9/27/2005	10:00	9/26/2005	8:27	ND		179	
88	PE 16.4 WW	PE 41.2 Headworks	9/27/2005	20:15	9/26/2005	8:27	ND	0	187	
89	PE 16.4 WW	PE 41.2 Headworks	9/27/2005	20:15	9/26/2005	8:27	ND	0	187	
90	PE 16.4 WW	PE 41.2 Headworks	9/27/2005	20:15	9/26/2005	8:27	ND	0	187	

	A	B	C	D	E	F	I	J	K	L
91	PE 16.4 WW	Lower PE 41.2 Headworks	9/28/2005	5:30	9/27/2005	6:58	ND		187	
92	PE 16.4 WW	Lower PE 41.2 Headworks	9/28/2005	7:30	9/27/2005	6:58	ND		187	
93	PE 16.4 WW	Lower PE 41.2 Headworks	9/28/2005	17:45	9/27/2005	6:58	ND	0	187	
94										
95		PEC @ Mile 32			8/8/2005	11:55				
96		PEC @ Mile 47			8/9/2005	5:45				
97		PEC 47 Inlet @ Head			8/9/2005	5:45				
98		PEC 47J			8/9/2005	10:15				
99		PEC 47 Relift			8/9/2005	10:00				
100	Esquatzel Diversion	PE 65	8/10/2005	2:30	8/9/2005	8:09	ND		153.2	
101	Esquatzel Diversion	PE 65	8/10/2005	4:30	8/9/2005	8:09	1		153.2	
102	Esquatzel Diversion	PE 65	8/10/2005	15:00	8/9/2005	8:09	<2	0.67		
103										
104	Esquatzel Diversion	PE 66 @ Sagemor Rd.	8/15/2005	16:00	8/15/2005	7:50	4.4		139.8	
105	Esquatzel Diversion	PE 66 @ Sagemor Rd.	8/15/2005	18:00	8/15/2005	7:50	9.2	4.53	139.8	
106										
107	Esquatzel Diversion	PE 66 @ Sagemor Rd.	8/16/2005	8:30	8/15/2005	7:50	ND		146.45	
108	Esquatzel Diversion	PE 59.4D @ Headworks	8/16/2005	23:30	8/16/2005	6:30	ND	0	133.26	
109										
110										
111		PE 55 @ Siphon Discharge			8/17/2005	5:15				
112	Esquatzel Diversion	PE 59.4D @ Headworks	8/17/2005	1:30	8/16/2005	6:30	ND		133.26	
113	Esquatzel Diversion	PE 59.4 Ext. Hdwks	8/17/2005	20:00	8/17/2005	8:00	ND		133.26	
114	Esquatzel Diversion	PE 59.4 Ext. Hdwks	8/17/2005	22:00	8/17/2005	8:00	ND	0	133.26	
115										
116	Esquatzel Diversion	PE 59.4 Ext. Hdwks	8/18/2005	14:50	8/17/2005	8:00	ND	0	146.45	
117										
118		PEC @ Mile 32			9/5/2005	13:39				
119		PEC @ Mile 47			9/6/2005	6:00				
120		PEC 47 Inlet @ Head			9/6/2005	6:00				
121		PEC 47J			9/6/2005	10:25				
122		PEC 47 Relift			9/6/2005	12:15				
123	Esquatzel Diversion	PE 65	9/7/2005	7:00	9/6/2005	19:45	1.1		172.62	
124	Esquatzel Diversion	PE 65	9/7/2005	9:00	9/6/2005	19:45	1.7		172.62	
125	Esquatzel Diversion	PE 65	9/7/2005	21:00	9/6/2005	19:45	ND	0.93	172.62	
126										
127	Esquatzel Diversion	PE 55 @ Siphon Discharge	9/13/2005	8:00	9/12/2005	7:30	ND		178.31	
128	Esquatzel Diversion	PE 55 @ Siphon Discharge	9/13/2005	9:30	9/12/2005	7:30	ND		178.31	
129	Esquatzel Diversion	PE 66 @ Sagemor Rd.	9/13/2005	21:00	9/13/2005	7:30	ND		172.62	
130	Esquatzel Diversion	PE 66 @ Sagemor Rd.	9/13/2005	23:00	9/13/2005	7:30	ND	0	172.62	
131										
132	Esquatzel Diversion	PE 59.4D @ Head	9/14/2005	0:30	9/13/2005	8:00	ND		172.62	
133	Esquatzel Diversion	PE 59.4D @ Head	9/14/2005	2:30	9/13/2005	8:00	ND		172.62	
134	Esquatzel Diversion	PE 59.4D @ Head	9/14/2005	15:30	9/13/2005	8:00	ND		172.62	
135	Esquatzel Diversion	P.E. 59.4 EXT. HDWRKS	9/14/2005	20:00	9/14/2005	7:50	ND		172.62	



A	B	C	D	E	H	I	J	K	L
1	2006 DISCHARGE MONITORING REPORT (DMR) FOR IRRIGATION DISTRICTS FOR NPDES GENERAL PERMIT # WAG-991000								
2	Directions for filling out this sheet (sheet 1) are on sheet 2								
3	IRRIGATION DISTRICT NPDES COVERAGE NO.: WAG-991009								
4	IRRIGATION DISTRICT NAME and ADDRESS:								
5	South Columbia Basin Irrigation District								
6	1135 E. Hillsboro, Suite A								
7	Pasco, Washington 99301								
8									
9									
10	SAMPLE STATION NAME	CORRESPONDING TREATMENT SITE NAME	SAMPLE DATE	SAMPLE TIME	TREATMENT DATE	LAB ID	ACROLEIN LAB METHOD: MDL:1.0 POL:2.5 Result (ug/l)	Average 24 Hour Results (ug/l)	FLOW FIELD METHOD: SEE REMARKS***** CFS
11		WB 10 Broad Crested Weir	5/23/2006	19:00	5/22/2006	06x1681-01	ND	0	64
12	WB5ww1	WB 10 Double CHOS	5/23/2006	21:00	5/22/2006	06x1681-02	ND	0	64
13	WB5ww1	WB 10 Double CHOS	5/23/2006	9:43	5/22/2006	06x1681-06	ND	0	66
14	WB5ww1	WB 5 Discharge of White Bluffs # 1	5/31/2006	6:00	5/30/2006	06x1729-03	ND	0	39
15	WB5ww1	WB 5 Discharge of White Bluffs # 1	5/31/2006	8:00	5/30/2006	06x1729-06	ND	0	39
16	WB5ww1	WB 5 Discharge of White Bluffs # 1	5/31/2006	20:00	5/30/2006	06x1744-06	1.00	0	39
17	WB5ww1	WB 5 Headworks	5/31/2006	18:00	5/30/2006	06x1744-04	ND	0.40	43
18	WB5ww1	WB 5 Headworks	5/31/2006	20:00	5/30/2006	06x1744-06	1.00	0	39
19	WB5ww1	WB 5 Headworks	6/1/2006	12:30	5/30/2006	06x1744-10	ND	0	46
20	WB5ww1	PEC Mile 32	5/23/2006	10:00	5/22/2006	06x1640-01	ND	0	115
21	WB5ww1	PEC Mile 32	5/23/2006	11:30	5/22/2006	06x1640-02	ND	0	115
22	WB5ww1	PEC Mile 32	5/23/2006	23:30	5/22/2006	06x1681-03	ND	0	152
23	WB5ww1	WB 5 Headworks	5/30/2006		5/30/2006				
24	WB5ww1	WB 5 Discharge of White Bluffs # 1	5/31/2006	15:00	5/30/2006	06x1744-01	ND	0	126
25	WB5ww1	WB 5 G Unit 227 (Jenks)	5/31/2006	17:00	5/30/2006	06x1744-04	ND	0	126
26	WB5ww1	WB 5 G Unit 227 (Jenks)	6/1/2006	12:15	5/30/2006	06x1744-09	ND	0	139
27	WB5ww1	WB 5 Headworks	5/23/2006		5/23/2006				
28	WB5ww1	WB 5 Headworks	5/23/2006		5/23/2006				
29	WB5ww1	WB 5 Headworks	5/23/2006		5/23/2006				
30	WB5ww1	WB 5 Headworks	5/23/2006		5/23/2006				
31	WB5ww1	WB 5 Headworks	5/23/2006		5/23/2006				
32	WB5ww1	WB 5 Headworks	5/23/2006		5/23/2006				
33	WB5ww1	WB 5 Headworks	5/23/2006		5/23/2006				
34	WB5ww1	WB 5 Headworks	5/23/2006		5/23/2006				
35	WB5ww1	WB 5 Headworks	5/23/2006		5/23/2006				
36	WB5ww1	WB 5 Headworks	5/23/2006		5/23/2006				
37	WB5ww1	WB 5 Headworks	5/23/2006		5/23/2006				
38	WB5ww1	WB 5 Headworks	5/23/2006		5/23/2006				
39	WB5ww1	WB 5 Headworks	5/23/2006		5/23/2006				
40	WB5ww1	WB 5 Headworks	5/23/2006		5/23/2006				
41	WB5ww1	WB 5 Headworks	5/23/2006		5/23/2006				
42	WB5ww1	WB 5 Headworks	5/23/2006		5/23/2006				
43	WB5ww1	WB 5 Headworks	5/23/2006		5/23/2006				
44	WB5ww1	WB 5 Headworks	5/23/2006		5/23/2006				
45	WB5ww1	WB 5 Headworks	5/23/2006		5/23/2006				

A	B	C	D	E	F	I	J	K
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3	IRRIGATION DISTRICT NPDES COVERAGE NO.: WAG-991009							
4	IRRIGATION DISTRICT NAME and ADDRESS:							
5	South Columbia Basin Irrigation District							
6	1135 E. Hillsboro, Suite A							
7	Pasco, Washington 99301							
8						8260	Average 24 Hour	FLOW FIELD METHOD: SEE REMARKS*****
9								
10	SAMPLE STATION NAME	CORRESPONDING TREATMENT SITE NAME	SAMPLE DATE	SAMPLE TIME	TREATMENT DATE	TREATMENT	Result (ug/L)	Results (ug/L) CFS
11	WB 10	WB 10 Broad Crested Weir	6/6/2006	5:00	6/5/2006	5:30	1	54
12	WB5ww1	WB 10 E Check	6/6/2006	7:00	6/5/2006	14:00	1.1	54
13	WB5ww1	WB 10 E Check	6/6/2006	19:00	6/5/2006	14:00	ND	54
14	WB5ww1	WB 10 E Check	6/6/2006					
15		WB 5 Headworks			6/12/2006	6:30		
16		WB 5 Discharge of White Bluffs # 1	6/12/2006	22:00	6/12/2006	5:20	ND	62
17		WB 5 Discharge of White Bluffs # 1	6/13/2006	0:00	6/12/2006	5:20	ND	62
18		WB 5 Discharge of White Bluffs # 1	6/13/2006	13:30	6/12/2006	5:20	ND	62
19		WB 5 Discharge of White Bluffs # 1	6/5/2006	16:50	6/5/2006	6:50	3.1	159
20		WB 5 Discharge of White Bluffs # 1	6/5/2006	18:50	6/5/2006	6:50	1.8	159
21		WB 5 Discharge of White Bluffs # 1	6/6/2006	4:50	6/5/2006	6:50	ND	159
22		WB 5 Discharge of White Bluffs # 1	6/6/2006	6:50	6/5/2006	7:00	ND	159
23		WB 5 Discharge of White Bluffs # 1	6/6/2006	9:00	6/5/2006	7:00	ND	159
24		WB 5 Discharge of White Bluffs # 1	6/7/2006	18:50	6/5/2006	7:00	ND	165
25		WB 5 Discharge of White Bluffs # 1	6/12/2006	6:30	6/12/2006	5:20		
26		WB 5 Discharge of White Bluffs # 1	6/12/2006	5:20	6/12/2006	13:45	ND	172
27		WB 5 Discharge of White Bluffs # 1	6/12/2006	13:45	6/12/2006	13:45	ND	172
28		WB 5 Discharge of White Bluffs # 1	6/12/2006	13:45	6/12/2006	13:45	ND	172
29		WB 5 Discharge of White Bluffs # 1	6/12/2006	13:45	6/12/2006	13:45	ND	172
30		WB 5 Discharge of White Bluffs # 1	6/12/2006	13:45	6/12/2006	13:45	ND	172
31		WB 5 Discharge of White Bluffs # 1	6/12/2006	13:45	6/12/2006	13:45	ND	172
32		WB 5 Discharge of White Bluffs # 1	6/12/2006	13:45	6/12/2006	13:45	ND	172
33		WB 5 Discharge of White Bluffs # 1	6/12/2006	13:45	6/12/2006	13:45	ND	172
34		WB 5 Discharge of White Bluffs # 1	6/12/2006	13:45	6/12/2006	13:45	ND	172
35		WB 5 Discharge of White Bluffs # 1	6/12/2006	13:45	6/12/2006	13:45	ND	172
36		WB 5 Discharge of White Bluffs # 1	6/12/2006	13:45	6/12/2006	13:45	ND	172
37		WB 5 Discharge of White Bluffs # 1	6/12/2006	13:45	6/12/2006	13:45	ND	172
38		WB 5 Discharge of White Bluffs # 1	6/12/2006	13:45	6/12/2006	13:45	ND	172
39		WB 5 Discharge of White Bluffs # 1	6/12/2006	13:45	6/12/2006	13:45	ND	172
40		WB 5 Discharge of White Bluffs # 1	6/12/2006	13:45	6/12/2006	13:45	ND	172
41		WB 5 Discharge of White Bluffs # 1	6/12/2006	13:45	6/12/2006	13:45	ND	172
42		WB 5 Discharge of White Bluffs # 1	6/12/2006	13:45	6/12/2006	13:45	ND	172
43		WB 5 Discharge of White Bluffs # 1	6/12/2006	13:45	6/12/2006	13:45	ND	172
44		WB 5 Discharge of White Bluffs # 1	6/12/2006	13:45	6/12/2006	13:45	ND	172





A	B	C	D	E	F	I	J	K	L
1	2006 DISCHARGE MONITORING REPORT (DMR) FOR IRRIGATION DISTRICTS FOR NPDES GENERAL PERMIT # WAG-991000								
2	Directions for filling out this sheet (sheet 1) are on sheet 2								
3	IRRIGATION DISTRICT NPDES COVERAGE NO.: WAG-991009								
4	IRRIGATION DISTRICT NAME and ADDRESS:								
5	South Columbia Basin Irrigation District								
6	1135 E. Hillsboro, Suite A								
7	Pasco, Washington 99301								
8							EPA 8260	Average	FLOW
9								24	FIELD METHOD:
10	SAMPLE STATION NAME	CORRESPONDING TREATMENT SITE NAME	SAMPLE DATE	SAMPLE TIME	TREATMENT DATE	TREATMENT TIME	Result (ug/L)	Results (ug/L)	CFS
11		WBC Mile 5 (dwnstr of WB 5 Hdwks)			7/31/2006	6:50			
12		WBC Mile 13 (End of Lining)			7/31/2006	13:20			
13		WB 10 Broad Crested Weir			7/31/2006	5:10			
14	WBSWW	WB 10 E Check	8/1/2006	0:00	7/31/2006	11:50	ND	71	
15	WBSWW	WB 10 E Check	8/1/2006	2:00	7/31/2006	11:50	ND	71	
16	WBSWW	WB 10 E Check	8/1/2006	11:50	7/31/2006	11:50	ND	71	
17									
18	WBSWW	WB 5 Headworks	8/8/2006	5:30	8/7/2006	5:00	ND	54	
19	WBSWW	WB 5 Headworks	8/8/2006	7:30	8/7/2006	5:00	ND	54	
20	WBSWW	WB 5 Headworks	8/8/2006	17:45	8/7/2006	5:00	ND	54	
21									
22		WBC Mile 5 (dwnstr of WB 5 Hdwks)			8/28/2006	7:01			
23		WBC Mile 13 (End of Lining)			8/28/2006	12:03			
24		WB 10 Broad Crested Weir			8/28/2006	5:08			
25		WB 10 E Check	8/28/2006	23:30	8/28/2006	11:35	ND	0	66
26									
27									
28	WBSWW	WB 10 E Check	8/29/2006	1:30	8/28/2006	11:35	ND	66	
29	WBSWW	WB 10 E Check	8/29/2006	13:40	8/28/2006	11:35	ND	0	66
30									
31		WB 5 Headworks			9/5/2006	6:20			
32	WBSWW	WB 5 Discharge of White Bluffs # 1	9/6/2006	7:00	9/5/2006	12:10	ND	46	
33	WBSWW	WB 5 Discharge of White Bluffs # 2	9/6/2006	9:00	9/5/2006	12:10	ND	46	
34	WBSWW	WB 5 Discharge of White Bluffs # 3	9/6/2006	19:30	9/5/2006	12:10	ND	0	46
35									
36	WBSWW	WB 10 Broad Crested Weir	9/27/2006	16:00	9/25/2006	7:00	ND	62	
37	WBSWW	WB 10 Broad Crested Weir	9/27/2006	18:00	9/25/2006	7:00	ND	62	
38									
39	WBSWW	WB 10 Broad Crested Weir	9/28/2006	13:25	9/25/2006	7:00	ND	0	50
40									
41	PE164WW	PE 46.2 Headworks	7/31/2006	19:00	7/31/2006	6:27	ND	210	
42	PE164WW	PE 46.2 Headworks	7/31/2006	21:00	7/31/2006	6:27	1.1	0.55	210
43									
44	PE164WW	PE 46.2 Headworks	8/1/2006	7:00	7/31/2006	6:27	ND	210	



	A	B	C	D	E	F	I	J	K	L
90		PEC @ Mile 32			8/14/2006	12:07				
91		P.E.47 INLET @ HEAD			8/15/2006	5:30				
92		P.E.47 RELIFT			8/15/2006	12:00				
93		P.E.C. @ MILE 47			8/15/2006	5:30				
94		P.E.C.47 J			8/15/2006	10:00				
95		Esquatzel Diversion			8/15/2006	6:00	ND		73.96	
96		Esquatzel Diversion			8/15/2006	6:00	ND		73.96	
97		Esquatzel Diversion			8/15/2006	6:00	ND	0	73.96	
98										
99		P.E. 55 @ Siphon Discharge			8/21/2006	8:00				
100		Esquatzel Diversion			8/21/2006	8:00	1.5		108.16	
101		P.E. 59.4 EXT. HDWRKS			8/21/2006	8:00	ND		108.16	
102		Esquatzel Diversion			8/22/2006	8:00			108.16	
103		P.E. 66 @ Sagemoor Rd.			8/22/2006	8:30	1		108.16	
104		Esquatzel Diversion			8/22/2006	8:00	ND	0.7	108.16	
105										
106		P.E. 59.4D @ Head			8/23/2006	8:00	ND		108.16	
107		Esquatzel Diversion			8/23/2006	8:00	ND	0	108.16	
108										
109		PEC @ Mile 32			9/11/2006	8:47				
110		P.E.47 INLET @ HEAD			9/12/2006	6:00				
111		P.E.47 RELIFT			9/12/2006	12:30				
112		P.E.C. @ MILE 47			9/12/2006	6:00				
113		P.E.C.47 J			9/12/2006	10:00				
114		Esquatzel Diversion			9/13/2006	18:00	ND		108.16	
115		Esquatzel Diversion			9/13/2006	11:30	ND	0	114.27	
116										
117		Esquatzel Diversion			9/14/2006	8:20	ND	0	133.26	
118										
119		Esquatzel Diversion			9/19/2016	1:30	1.2		174.04	
120		Esquatzel Diversion			9/19/2006	3:00	4.6		174.04	
121		Esquatzel Diversion			9/19/2006	14:10	ND	1.93	174.04	