KRCD
Kings River Conservation District

4886 East Jensen Avenue
Fresno, California 93725

Tel: 559-237-5567
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www.krcd.org

November 20, 2008

DOCKET
07-AFC-7
DATE NOV 20 2008
RECD. NOV 20 2008

Mr. Alan Solomon
Project Manager
California Energy Commission
1516 Ninth Street, MS-15
Sacramento, CA 95814-5512

Re: Kings River Conservation District Community Power Plant Application for Certification (07-AFC-7) – Data Request Responses 80 & 81

Dear Mr. Solomon:

Kings River Conservation District (KRCD) hereby submits the attached responses to CEC Data Requests 80 and 81, in the area of Water Resources. With the attached submittal, KRCD has now provided responses to all of CEC Data Requests Numbers 1-89, dated January 2008.

As General Manager of KRCD, I hereby attest, under penalty of perjury, that the attached reports are true and accurate to the best of my knowledge. Please contact our consultant, Amy Cuellar of Navigant Consulting at (916) 631-3211 if you have any questions.

Sincerely,

David Orth
General Manager

DO/mc

File No. 536.02.09
L08-0320

BOARD OF DIRECTORS
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APPLICATION FOR CERTIFICATION 07-AFC-7

RESPONSES
TO
CEC WATER RESOURCES DATA REQUESTS 80 and 81
(DATED JANUARY 23, 2008)

KRCD COMMUNITY
POWER PLANT

Energy for our Future

Submitted to:
CALIFORNIA ENERGY COMMISSION

November 2008

Technical Area: Water Resources

Data Request 80:

Please provide a list of wells that could be affected by the project's use of groundwater.

Response to Data Request 80:

There are approximately 131 wells located within a 5,000 foot radius from the center of the plant site. This includes one well on project property that is currently located at the southwest corner of the plant site. A listing these wells is included as Attachment Water-1 (Table 80A).

ATTACHMENT WATER-1

Wells Located Near the Project Site

Table 80A

Well Locations Near the Plant Site

Well Log #	APN	Method of Locating Wells	Well Distance	Township and Range	Section	X	Y
568897	35803241T	Well log and visual	386	15S22E	27	6393720	2099950
65496	35803238ST	Well log and visual	868	15S22E	27	6393200	2100610
560418	35803242	Well log and visual	921	15S22E	27	6393120	2099910
560419	35803238ST	Well log and visual	1047	15S22E	27	6393630	2101220
582518	35803241T	Well log and visual	1070	15S22E	27	6392950	2099950
143888	35803238ST	Well log and visual	1022	15S22E	27	6394250	2101220
560420	35803238ST	Well log and visual	1031	15S22E	27	6393680	2101220
507665	35803237T	Well log and visual	1056	15S22E	27	6394230	2101260
52070	35803238ST	Well log and visual	1080	15S22E	27	6393140	2100910
568898	35803237T	Well log and visual	1183	15S22E	27	6393430	2101280
568895	35803237T	Well log and visual	1227	15S22E	27	6393340	2101280
	35803220	Visual	1213	15S22E	33	6392780	2100070
49201	35803242	Well log and visual	1358	15S22E	27	6393570	2098940
568899	35803237T	Well log and visual	1462	15S22E	27	6392960	2101280
560414	35803266	Well log and visual	1493	15S22E	28	6392870	2101230
85536	35803237T	Well log and visual	1506	15S22E	27	6393990	2101740
560415	35803266	Well log and visual	1530	15S22E	28	6392820	2101230
56950	35803218	Well log and visual	1594	15S22E	27	6392690	2099300
30656	35803244	Well log and visual	1651	15S22E	27	6394510	2098670
30655	35803243	Well log and visual	1685	15S22E	27	6394610	2098670
27302	35827033	Well log and visual	1692	15S22E	34	6394230	2098560
	35803242	Visual	1746	15S22E	27	6393130	2098710
	35803250	Visual	1795	15S22E	27	6395710	2099750
	35827034	Visual	1830	15S22E	34	6394470	2098470
	35827003	Visual	1934	15S22E	34	6394680	2098430
582517	35803267	Well log and visual	2015	15S22E	28	6392260	2101280
	35826007S	Visual	2154	15S22E	27	6395800	2101390
	35827004	Visual	2123	15S22E	34	6394980	2098360
	35803234	Visual	2293	15S22E	27	6393260	2102410
	35826005S	Visual	2300	15S22E	27	6395810	2101630
	35826006S	Visual	2229	15S22E	27	6395810	2101510
120451	35827004	Well log and visual	2379	15S22E	34	6395510	2098410
	35826023S	Visual	2380	15S22E	27	6395800	2101770
89672	35827004	Well log and visual	2459	15S22E	34	6395500	2098300
717326	35803219	Well log and visual	2416	15S22E	28	6391580	2099970
46719	35826008S	Well log and visual	2449	15S22E	27	6396210	2101250
	35826005S	Visual	2492	15S22E	27	6396060	2101610
27407	35803217	Well log and visual	2583	15S22E	28	6391570	2099310
512051	35805004	Well log and visual	2545	15S22E	33	6392840	2097960
	35826023S	Visual	2548	15S22E	27	6396030	2101750
	35803217	Visual	2599	15S22E	33	6391480	2099530
	35803217	Visual	2535	15S22E	33	6391490	2099770
85538	35827030	Well log and visual	2684	15S22E	34	6393960	2097550
76259	35827030	Well log and visual	2610	15S22E	34	6393550	2097660
0503634M	35803251	Well log and visual	2613	15S22E	27	6396140	2098760
112402	35805004	Well log and visual	2721	15S22E	33	6391990	2098380
29796	35803253ST	Well log and visual	2793	15S22E	27	6396600	2099260
144409	35803214T	Well log and visual	2732	15S22E	28	6391520	2099050
	35803215	Visual	2767	15S22E	33	6391660	2098730

The coordinates are in NAD
1983 State Plane California IV
FIPS 0404 (Feet)

Table 80A

Well Locations Near the Plant Site

	35803219	Visual	2720	15S22E	33	6391270	2100030
47831	35827030	Well log and visual	3001	15S22E	34	6393400	2097290
31929	35827020	Well log and visual	2954	15S22E	34	6394220	2097290
	35803222	Visual	2959	15S22E	33	6391510	2101860
582523	35827030	Well log and visual	3070	15S22E	34	6393080	2097300
32212	35826015S	Well log and visual	3058	15S22E	27	6396870	2101240
154775	35803253ST	Well log and visual	3019	15S22E	27	6396840	2099260
	35826014S	Visual	3084	15S22E	27	6396820	2101440
	35826013S	Visual	3007	15S22E	27	6396710	2101500
54792	35803227	Well log and visual	3134	15S22E	28	6391870	2102550
34047	35826025S	Well log and visual	3149	15S22E	27	6396200	2102470
E0022526	35827049	Well log and visual	3143	15S22E	34	6396370	2098190
189121	35826020S	Well log and visual	3132	15S22E	27	6396920	2101320
189123	35826020S	Well log and visual	3147	15S22E	27	6396960	2101250
58374	35827049	Well log and visual	3297	15S22E	34	6396350	2097940
58331	35827050	Well log and visual	3260	15S22E	34	6396670	2098390
48034	35803253ST	Well log and visual	3275	15S22E	27	6396870	2098690
	35803232	Visual	3223	15S22E	33	6392630	2103160
	35803231	Visual	3337	15S22E	27	6393090	2103450
35586	35803228	Well log and visual	3329	15S22E	28	6391590	2102550
E0047535	35827050	Well log and visual	3332	15S22E	34	6396710	2098320
	35803223	Visual	3362	15S22E	33	6391480	2102480
	35803230	Visual	3464	15S22E	33	6392670	2103440
	35803233	Visual	3532	15S22E	27	6394410	2103740
	35827006	Visual	3601	15S22E	34	6396980	2098240
146770	35803232	Well log and visual	3643	15S22E	28	6391880	2103210
	35826025S	Visual	3676	15S22E	27	6397370	2101660
79411	35803259	Well log and visual	3627	15S22E	27	6395770	2103390
49233	35803219	Well log and visual	3691	15S22E	28	6390300	2099980
	35803229	Visual	3643	15S22E	33	6392690	2103640
70491	35803229	Well log and visual	3781	15S22E	28	6392910	2103860
26295	35803219	Well log and visual	3721	15S22E	28	6390270	2099970
158618	35827032S	Well log and visual	3811	15S22E	34	6394210	2096430
N/A	35803217	Well log and visual	3799	15S22E	28	6390300	2099300
31326	35827026	Well log and visual	3827	15S22E	34	6393190	2096490
	35306153	Visual	3896	15S22E	22	6393150	2104040
	35803259	Visual	3988	15S22E	27	6395900	2103730
48049	35803213T	Well log and visual	3909	15S22E	28	6390290	2098950
	35805094	Visual	4025	15S22E	33	6392610	2096450
	35805003	Visual	4069	15S22E	33	6390340	2098420
21132	35803256	Well log and visual	4131	15S22E	27	6398010	2101150
498974	35827055	Well log and visual	4111	15S22E	34	6396820	2097260
49829	35803260	Well log and visual	4104	15S22E	27	6396710	2103300
97677	35827012	Well log and visual	4190	15S22E	34	6394210	2096050
	35827031S	Visual	4105	15S22E	34	6393400	2096170
	35805005	Visual	4181	15S22E	33	6391670	2096750
55447	35827012	Well log and visual	4265	15S22E	34	6395530	2096260
	35827012	Visual	4234	15S22E	34	6394800	2096080
	35827007	Visual	4259	15S22E	34	6397740	2098230
	35804138	Visual	4351	15S22E	26	6398300	2100770

The coordinates are in NAD
1983 State Plane California IV
FIPS 0404 (Feet)

Table 80A

Well Locations Near the Plant Site

	35805095	Visual	4328	15S22E	33	6392670	2096110
	35805084	Visual	4370	15S22E	33	6391000	2097040
37721	35803211	Well log and visual	4449	15S22E	28	6389750	2098860
	35805025	Visual	4457	15S22E	34	6393810	2095780
	35306172	Visual	4402	15S22E	21	6392750	2104460
	35805093	Visual	4406	15S22E	33	6391490	2096600
75916	35803265S	Well log and visual	4550	15S22E	27	6397180	2103470
	35805023	Visual	4514	15S22E	34	6393250	2095780
	35827047S	Visual	4515	15S22E	34	6396010	2096200
	35306140	Visual	4562	15S22E	22	6393100	2104710
	35804137	Visual	4543	15S22E	26	6398520	2100440
	35804135	Visual	4563	15S22E	26	6398300	2098760
	35306140	Visual	4643	15S22E	22	6394230	2104870
	35308014	Visual	4675	15S22E	22	6396640	2104080
	35805022	Visual	4677	15S22E	33	6392720	2095730
76406	35803265S	Well log and visual	4777	15S22E	27	6397420	2103550
360370	35805093	Well log and visual	4733	15S22E	33	6390890	2096650
	35806001	Visual	4739	15S22E	35	6398360	2098420
67096	35803265S	Well log and visual	4865	15S22E	27	6397570	2103520
23445	35805034	Well log and visual	4848	15S22E	34	6395530	2095640
20745	35803202S	Well log and visual	4858	15S22E	28	6389750	2102620
	35805024	Visual	4830	15S22E	34	6393130	2095480
	35827055	Visual	4827	15S22E	34	6396440	2096080
	35306152	Visual	4870	15S22E	21	6391060	2104130
	35306139	Visual	4858	15S22E	22	6393150	2105020
	35308013	Visual	4826	15S22E	22	6396830	2104130
22798	35803265S	Well log and visual	4965	15S22E	27	6397790	2103420
60960	35803201	Well log and visual	4998	15S22E	28	6390400	2103720
	35805061	Visual	4932	15S22E	34	6395330	2095490
	35308008	Visual	4956	15S22E	22	6397120	2104070
	35805083	Visual	4943	15S22E	33	6390370	2096860
	35803210	Visual	4961	15S22E	33	6389230	2098810

The coordinates are in NAD
1983 State Plane California IV
FIPS 0404 (Feet)

Technical Area: Water Resources

Data Request 81:

Using the Kings Basin Integrated Groundwater Surface Water Model, MODFLOW, or comparable model, please quantify the impact on those wells under the two scenarios listed below and identify all assumptions and data used.

a) Supplementing the wastewater supply with pumped groundwater during times when peak demand for water from the power plant exceeds the ability of the two wastewater treatment plants to supply water to the power plant project; and
b) During times of a short and long interruption in the supply of wastewater.

Response to Data Request 81:

The effects of the utilization of wastewater effluent on the groundwater basin have been addressed in the AFC and in the report provided in Appendix 8.5-4, Groundwater Impact Analysis. This response addresses the displaced recharge and extraction at each wastewater treatment site resulting from the scenarios identified in the data request.

In year 2010, and as shown in Attachment Water-2 (Table 81A), the wastewater treatment plants are expected to have the ability to satisfy 99.6% of the annual water supply needs of the power plant (or 3,470 acre-feet of the 3,485 acre-feet annual requirement). To makeup for the shortfall, recovered percolated effluent will have to be utilized in July and August of 2010 to make up for a slight deficit in water available from the two wastewater treatment plants. The deficit for each month is 10.2 and 5.2 acre-feet for the months of July and August, respectively. This amount is substantially less than the current agricultural well usage estimated at 100 acre-feet per year (see AFC Section 8.5.5.1).

During 2010, the table indicates that 163.8 acre-feet of effluent will percolate into the ground water at the Parlier wastewater treatment plant site. Assuming 100% efficiency in recovering percolated effluent, there will be no impact to native groundwater at the site as 163.8 acre-feet of effluent percolates into the groundwater at the Parlier WWTP site each year and only 15.4 acre-feet will be recovered. Assuming 10% efficiency in recovering the percolated effluent, there will still be no impact to native groundwater at the site.

Further, the amount used in any case is less than the amount used for agricultural purposes and accordingly, there is no impact to native groundwater in nearby wells.

In the year 2011, the wastewater treatment plants are expected to have the ability to satisfy 100.0% of the annual water supply needs of the power plant as additional wastewater is generated through population growth as discussed in the AFC.

In the event of a short-term interruption in the supply of wastewater from one of the wastewater treatment plants, the interruption is expected to last a maximum of 5 days. This duration is based on an outage of a wastewater treatment facility and the capability of the facility to retain untreated wastewater on an emergency basis. A short-term interruption is not expected at both plants simultaneously and a loss of water from the Sanger wastewater treatment plant site, which provides the greater quantity of water, is considered in this response.

Under these conditions, a short-term outage in the month of July, or the month of highest water requirement, will require that effluent be recovered at the rate of 1,420 gallons per minute over the 5 day period, or 31.3 acre-feet of total effluent recovery. The drawdown for wells near the power plant site will vary from 0.3 feet for wells located 5,000 feet from the center of the power plant site to 3.0 feet for wells located 1,000 feet from the center of the plant site. Additional drawdown analysis is provided in Attachment Water-3 (Table 81B).

In the event of a long-term interruption in the supply of wastewater from one of the wastewater treatment plants, the interruption is expected to last a maximum of 1 calendar month. This duration is based on an outage of the pipeline or related facilities conveying water from the Sanger wastewater treatment plant. A long-term outage at the Parlier wastewater treatment plant is not expected given the adjacency of the wastewater treatment plant to the power plant site.

Under these conditions, a long-term outage in the month of July, or the month of highest water requirement, will require that effluent be recovered at the rate of 1,420 gallons per minute pm over the 31 day period, or 194 acre-feet of total effluent recovery. In this situation, the drawdown for wells near the power plant site will vary from 1.6 to 4.9 feet for wells located 5,000 feet and 1,000 feet from the center of the plant site, respectively.

A long-term outage occurring in February, or the month of lowest water requirement, will require that effluent be recovered at the rate of 700 gallons per minute over the 28 day period, or 87 acre-feet of total effluent recovery. In this situation, the drawdown for wells near the power plant site will vary from 0.8 to 2.4 feet for wells located 5,000 feet and 1,000 feet from the center of the plant site, respectively. Additional data for this recovery rate is provided in Attachment Water-3 (Table 81C).

The anticipated drawdown in any of these cases would be temporary and groundwater levels would shortly return to pre-interruption levels. It should be noted that worst case scenarios are presented in this analysis and efforts that would be undertaken to reduce process water usage at the power plant are not considered. Further, the above analysis is based on an analytical method (Theis equation) assuming a single well and aquifer parameters taken from the Kings Integrated Groundwater Surface Water Model (Kings IGSWM). This approach overestimates the drawdown at distances near the theoretical well but approaches actual results for a more detailed analysis (such as MODFLOW). The Kings IGSWM is a basin scale model and is not suitable to evaluate these localized effects. MODFLOW was not used as the design of the well field and final location of the extraction wells has not been determined at this time.

ATTACHMENT WATER-2

Recycled Wastewater Water Balance

Table 81A

Recycled Wastewater Water Balance

Year 2010

	A	B	C	D	E	F	G	H	J	K	L
	Raw Water Entering Sanger WWTP (AF)	Secondary Water Percolated Sanger WWTP (AF)	Secondary Water Leaving Sanger WWTP (AF)	Raw Water Entering Parlier WWTP (AF)	Secondary Water Percolated Parlier WWTP (AF)	Secondary Water Leaving Parlier WWTP (AF)	Secondary Water Entering Tertiary Treatment (AF)	Tertiary Water to KRCD CPP (AF)	Filter Backwash to Parlier WWTP (AF)	Percolated Effluent Recovery (AF)	Process Water to KRCD CPP (AF)
JAN	183.8	52.1	131.7	161.3	29.6	131.7	263.4	254.0	9.4	0.0	254.0
FEB	183.8	59.9	123.9	161.3	37.3	123.9	247.8	239.0	8.8	0.0	239.0
MAR	183.8	41.8	142.1	161.3	19.2	142.1	284.1	274.0	10.1	0.0	274.0
APR	183.8	38.7	145.2	161.3	16.1	145.2	290.4	280.0	10.4	0.0	280.0
MAY	183.8	23.6	160.2	161.3	1.0	160.2	320.4	309.0	11.4	0.0	309.0
JUN	183.8	16.4	167.5	161.3	0.0	161.3	328.7	317.0	11.7	0.0	317.0
JUL	183.8	0.0	183.8	161.3	0.0	161.3	345.1	332.8	12.3	10.2	343.0
AUG	183.8	0.0	183.8	161.3	0.0	161.3	345.1	332.8	12.3	5.2	338.0
SEP	183.8	18.4	165.4	161.3	0.0	161.3	326.7	315.0	11.7	0.0	315.0
OCT	183.8	28.3	155.6	161.3	5.7	155.6	311.1	300.0	11.1	0.0	300.0
NOV	183.8	48.5	135.3	161.3	25.9	135.3	270.7	261.0	9.7	0.0	261.0
DEC	183.8	51.6	132.2	161.3	29.0	132.2	264.4	255.0	9.4	0.0	255.0
TOTAL	**2206.0**	**379.3**	**1826.7**	**1935.0**	**163.8**	**1771.2**	**3597.9**	**3469.5**	**128.4**	**15.5**	**3485.0**

3.70% Percentage of influent used for backwash
50.00% Percentage of Sanger's flow from WWTP take

Notes:
(1) Flows from WWTP assume predicted 2010 figures.
(2) All values in acre-feet unless otherwise noted.

ATTACHMENT WATER-3

Estimated Drawdown

Table 81B

Estimated Drawdown
1,420 gpm continuous pumping

Days	Drawdown at Distance from Well (ft)							
	0	250	500	1,000	2,000	3,000	4,000	5,000
5	18.0	6.0	4.5	3.0	1.6	0.9	0.5	0.3
15	19.2	7.2	5.6	4.2	2.7	1.9	1.3	1.0
30	19.9	7.9	6.4	4.9	3.4	2.6	2.0	1.6

Table 81C

Estimated Drawdown
700 gpm continuous pumping

Days	Drawdown at Distance from Well (ft)							
	0	250	500	1,000	2,000	3,000	4,000	5,000
5	8.9	2.9	2.2	1.5	0.8	0.4	0.2	0.1
15	9.4	3.5	2.8	2.0	1.3	0.9	0.7	0.5
30	9.8	3.9	3.2	2.4	1.7	1.3	1.0	0.8

KRCD
Kings River Conservation District

4886 East Jensen Avenue
Fresno, California 93725

Tel: 559-237-5567
Fax: 559-237-5560

www.krcd.org

November 20, 2008

Mr. Alan Solomon
Project Manager
California Energy Commission
1516 Ninth Street, MS-15
Sacramento, CA 95814-5512

Re: Kings River Conservation District Community Power Plant Application for Certification (07-AFC-7) – Data Request Responses 80 & 81

Dear Mr. Solomon:

Kings River Conservation District (KRCD) hereby submits the attached responses to CEC Data Requests 80 and 81, in the area of Water Resources. With the attached submittal, KRCD has now provided responses to all of CEC Data Requests Numbers 1-89, dated January 2008.

As General Manager of KRCD, I hereby attest, under penalty of perjury, that the attached reports are true and accurate to the best of my knowledge. Please contact our consultant, Amy Cuellar of Navigant Consulting at (916) 631-3211 if you have any questions.

Sincerely,

David Orth
General Manager

DO/mc

File No. 536.02.09
L08-0320

BOARD OF DIRECTORS
Division I, NORMAN B. WALDNER, Dinuba • **Division II**, MASARU YOSHIMOTO, Fowler • **Division III**, GILDO NONINI, Fresno • **Division IV**, MARK McKEAN, Riverdale • **Division V**, BRENT L. GRAHAM, Hanford
Division VI, CEIL W. HOWE, JR., Stratford • **At Large**, ALVIN J. QUIST, Fresno
OFFICERS
MARK McKEAN, President • BRENT L. GRAHAM, Vice President • DAVID ORTH, General Manager-Secretary • RANDY SHILLING, Auditor • EDWARD J. TIEDEMANN, Attorney-At-Law

BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION OF THE STATE OF CALIFORNIA
1516 NINTH STREET, SACRAMENTO, CA 95814
1-800-822-6228 – WWW.ENERGY.CA.GOV

APPLICATION FOR CERTIFICATION for the *KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PROJECT*	**Docket No. 07-AFC-7** **PROOF OF SERVICE** **(Revised 10/24/2008)**

INSTRUCTIONS: All parties shall either (1) send an original signed document plus 12 copies or (2) mail one original signed copy AND e-mail the document to the address for the Docket as shown below, AND (3) all parties shall also send a printed or electronic copy of the document, which includes a proof of service declaration to each of the individuals on the proof of service list shown below:

CALIFORNIA ENERGY COMMISSION
Attn: Docket No. 07-AFC-7
1516 Ninth Street, MS-15
Sacramento, CA 95814-5512
docket@energy.state.ca.us

APPLICANT

David Orth
Kings River Conservation District
4886 East Jensen Ave
Fresno, CA 93725-1899
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APPLICANT CONSULTANT

Amy Cuellar, Project Manager
Navigant Consulting
3100 Zinfandel Dr
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COUNSEL FOR APPLICANT

Scott Galati
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DECLARATION OF SERVICE

I, Ann Czerwonka, declare that on November 20, 2008 I deposited copies of the attached Responses to requests 80/81, in the United States mail at Sacramento, California with first-class postage thereon fully prepaid and addressed to those identified on the Proof of Service list above.

OR

Transmission via electronic mail was consistent with the requirements of California Code of Regulations, title 20, sections 1209, 1209.5, and 1210. All electronic copies were sent to all those identified on the Proof of Service list above.

I declare under penalty of perjury that the foregoing is true and correct.

*indicates change