River Garden Farms Company
Application to Appropriate Water

Attachment 1
Additional Comments on RGF's Application

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3. Project Description:

RGF proposes to divert up to 7,000 acre-feet of surface water for rice straw decomposition, wildlife enhancement, and recreational purposes, such as hunting and bird watching, from about November 1 to about March 1 of the succeeding year. The place of use is located within the Pacific Flyway. The total quantity to be diverted has been estimated by assuming that it will require approximately 2.0 acre-feet of water per acre during the requested season to flood and maintain 3,500 acres to a depth of 8 inches. This depth is the ideal depth for waterfowl habitat and is sufficient to decompose rice straw. The total quantity also includes an amount for flow through the flooded fields to prevent waterfowl diseases which can result from stagnant water. The lands to be flooded are currently under cultivation and irrigated under other water rights held by RGF and its Settlement Contract with the U.S. Bureau of Reclamation (Reclamation).

RGF is located within Yolo County north of the town of Knights Landing. RGF is proposing to utilize existing facilities and points of diversion located at its Townsite Pumping Plant on the Sacramento River and at Jacob's Point on Reclamation District 108's (RD 108) Lateral 14A. The Townsite Pumping Plant is currently being equipped with a positive barrier fish screen facility, and will be fully operational before the diversion of any water from the Sacramento River. The fish screen will be built to the design criteria of the California Department of Fish and Game (DFG), the US Fish and Wildlife Service (USFWS), and the National Marine Fisheries Service (NMFS). The maximum rate of diversion at the Townsite Pumping Plant is 62 cfs. Water diverted at Jacob's Point consists of rain water runoff and drainage from RD 108's service area. The capacity of the Jacob's Point diversion facility from Lateral 14A is 61 cfs. Absent diversion and use by RGF, the drain water would be pumped by RD 108 to the Sacramento River at Rough and Ready Pumping Plant or El Dorado Bend Pumping Plant.

4. a. Purpose of Use, Diversion/Storage Amount and Season

As identified under section 5 of this application, two points of diversion are proposed. In order to provide the maximum flexibility, the rate of diversion, 123 cfs, is based on the combined capacity of the two facilities, 62 cfs at POD #1 and 61 cfs at POD #2. It is anticipated that the actual rate of diversion at any time will be significantly less than 123 cfs, as it is unlikely water will be diverted at the capacity of the two facilities concurrently.

6. d. Alternative Sources of Water

River Garden Farms has existing groundwater wells. If necessary, RGF may be able to purchase water from a neighboring district, or could elect to use alternative methods for rice straw decomposition to reduce the quantity of water needed.

7. a. Place of Use:

USE IS WITHIN (40-acre subdivision)		SECTION*	TOWNSHIP**	RANGE**	Acres	Presently Cultivated?
SW ¼	NE ¼	31	12N	2E	11	YES
SE ¼	NE ¼	31	12N	2E	33	YES
NW ¼	SE ¼	31	12N	2E	21	YES
E ½	SE ¼	31	12N	2E	80	YES
SW ¼	SE ¼	31	12N	2E	32	YES
SW ¼	NW ¼	32	12N	2E	7.3	YES
NW ¼	SW ¼	32	12N	2E	20	YES
SW ¼	SW ¼	32	12N	2E	38	YES
SE ¼	SW ¼	32	12N	2E	31	YES
NW ¼	SE ¼	32	12N	2E	14	YES
NE ¼	SE ¼	32	12N	2E	33	YES
SW ¼	SE ¼	32	12N	2E	37	YES
SE ¼	SE ¼	32	12N	2E	40	YES
NW ¼	SW ¼	33	12N	2E	27	YES
NE ¼	SW ¼	33	12N	2E	12	YES
SW ¼	SW ¼	33	12N	2E	40	YES
SE ¼	SW ¼	33	12N	2E	32	YES
NW ¼	SE ¼	33	12N	2E	6.4	YES
SW ¼	SE ¼	33	12N	2E	1.5	YES
W ½	NW ¼	4	11N	2E	80	YES
NE ¼	NW ¼	4	11N	2E	13	YES
SE ¼	NW ¼	4	11N	2E	32	YES
SW ¼	NE ¼	4	11N	2E	0.4	YES
	SW ¼	4	11N	2E	160	YES
NW ¼	SE ¼	4	11N	2E	11	YES
SW ¼	SE ¼	4	11N	2E	30	YES
SE ¼	SE ¼	4	11N	2E	5.5	YES
	ALL	5	11N	2E	640	YES
NE ¼	NW ¼	6	11N	2E	11	YES
SE ¼	NW ¼	6	11N	2E	21	YES
	E ½	6	11N	2E	320	YES
NE ¼	SW ¼	6	11N	2E	26	YES
SE ¼	SW ¼	6	11N	2E	26	YES
NE ¼	NW ¼	7	11N	2E	1.9	YES
NW ¼	NE ¼	7	11N	2E	21	YES
NE ¼	NE ¼	7	11N	2E	39	YES
SE ¼	NE ¼	7	11N	2E	6.2	YES
NW ¼	NW ¼	8	11N	2E	40	YES
E ½	NW ¼	8	11N	2E	80	YES
SW ¼	NW ¼	8	11N	2E	29	YES
	NE ¼	8	11N	2E	160	YES

7. a. Place of Use: (Continued)

USE IS WITHIN (40-acre subdivision)		SECTION*	TOWNSHIP**	RANGE**	Acres	Presently Cultivated?
NE ¼	SW ¼	8	11N	2E	13	YES
NW ¼	SE ¼	8	11N	2E	36	YES
NE ¼	SE ¼	8	11N	2E	40	YES
SW ¼	SE ¼	8	11N	2E	3.1	YES
SE ¼	SE ¼	8	11N	2E	28	YES
	W ½	9	11N	2E	320	YES
W ½	NE ¼	9	11N	2E	80	YES
NE ¼	NE ¼	9	11N	2E	39	YES
SE ¼	NE ¼	9	11N	2E	40	YES
	SE ¼	9	11N	2E	160	YES
NW ¼	NW ¼	10	11N	2E	0.6	YES
SW ¼	NW ¼	10	11N	2E	20	YES
NW ¼	SW ¼	10	11N	2E	38	YES
NE ¼	SW ¼	10	11N	2E	3.4	YES
SW ¼	SW ¼	10	11N	2E	40	YES
SE ¼	SW ¼	10	11N	2E	19	YES
SW ¼	NW ¼	14	11N	2E	16	YES
NW ¼	SW ¼	14	11N	2E	10	YES
NW ¼	NW ¼	15	11N	2E	41	YES
NE ¼	NW ¼	15	11N	2E	41	YES
SW ¼	NW ¼	15	11N	2E	37	YES
SE ¼	NW ¼	15	11N	2E	40	YES
NW ¼	NE ¼	15	11N	2E	28	YES
NE ¼	NE ¼	15	11N	2E	3.6	YES
SW ¼	NE ¼	15	11N	2E	40	YES
SE ¼	NE ¼	15	11N	2E	36	YES
NW ¼	SW ¼	15	11N	2E	8.7	YES
NE ¼	SW ¼	15	11N	2E	34	YES
NW ¼	SE ¼	15	11N	2E	40	YES
NE ¼	SE ¼	15	11N	2E	38	YES
SW ¼	SE ¼	15	11N	2E	4.9	YES
SE ¼	SE ¼	15	11N	2E	2.6	YES
NW ¼	NW ¼	16	11N	2E	12	YES
NE ¼	NW ¼	16	11N	2E	30	YES
NW ¼	NE ¼	16	11N	2E	42	YES
NE ¼	NE ¼	16	11N	2E	42	YES
SW ¼	NE ¼	16	11N	2E	6.2	YES
SE ¼	NE ¼	16	11N	2E	24	YES
NE ¼	NE ¼	17	11N	2E	0.2	YES
				Total Acres:	3,726.5	

* All sections are projected

** All references to Township and Range are MDB&M

7. a. (Continued) The Place of Use is within Yolo County Assessor's Parcel Numbers:

056-060-004-000	056-090-008-000	056-150-001-000	056-150-006-000
056-070-005-000	056-110-001-000	056-150-002-000	056-150-007-000
056-080-003-000	056-110-003-000	056-150-003-000	
056-080-006-000	056-110-004-000	056-150-004-000	
056-090-004-000	056-140-001-000	056-150-005-000	

10. Diversion and Distribution Method:

Point of Diversion 1 (Townsite Pumping Plant)

a. Not Applicable
b. Diversion will be by pumping from: screened facility in the Sacramento River
   Maximum pumps discharge = 62 cfs
   Pump horsepower = 50 HP, 75 HP, and 100 HP
   Estimated pumping plant efficiency = 55 %
c. Water is diverted directly into RGF's distribution system immediately downstream of the point of diversion.

Point of Diversion 2 (Jacob's Point)

a. Diversion will be by gravity by means of: canal gate and culvert under levee
b. Not Applicable
c. Water is diverted directly into the RGF's distribution system at point of diversion.

18. c. Environmental Document:

River Garden Farms is fully located within the boundaries of Reclamation District 787 (RD 787); therefore, it is anticipated that RD 787 will be the lead agency for the preparation of any necessary environmental document for this project. RD 787 can be contacted at 41758 County Road 112, Knights Landing, CA 95645.