East San Joaquin Water Quality Coalition

Monday, January 12, 2015

ID # 6545
Singh Farms
Robin Singh
25810 Ave 11
Madera, CA 93637

MANDATORY FARM EVALUATION AS REQUIRED BY IRRIGATED LANDS REGULATORY PROGRAM
(Order No. R5-2012-0116)
MUST BE RETURNED BY 3/1/2015

Dear Robin Singh,

Enclosed is the Farm Evaluation Survey developed under requirements mandated in the Irrigated Lands Regulatory Program (ILRP Order No. R5-2012-0116-R1), adopted on December 7, 2012. To remain a member in good standing, members must complete a Farm Evaluation Survey for each enrolled parcel(s) and return it to the Coalition in the enclosed envelope. If you did not farm your property in 2014, please contact us and let us know as soon as possible; the deadline for submittal is 3/1/2015.

If this property is leased or you (the member) are not actively involved in the farm, please forward this survey to the person/company responsible for farming activities on the property. If you want future surveys forwarded to this person/company, please notify us and provide the contact information.

This Farm Evaluation Survey is intended to be a "census" of farm management practices being used on irrigated cropland in the Central Valley to protect surface and groundwater. The Farm Evaluation Survey is based on a template approved by the Regional Water Board and members of all water quality coalitions in the Central Valley will be required to complete a survey. Results are compiled from all members into a summary report.

Parcel numbers and Field ID numbers have been pre-populated in the surveys based on your membership information and County Agricultural Commissioner's records. Please check the box next to the APN/field(s) that the answers pertain to. Answer questions based on practices used in 2014.

You may need to make copies of Parts B and D of the survey and complete separate surveys for each of your fields that are managed differently or have different crops.

See detailed instructions on the following pages.

Please contact us if you have questions about completing this Farm Evaluation Survey. Again, if you did not farm your property in 2014, please contact us and let us know as soon as possible. Contact us at contactesj@esjcoalition.org or (209) 846-6112 with your questions or to inform us that you did not farm in 2014.

Thank you,

Parry Klassen
Executive Director, ESJWQC
559-288-8125

Wayne Zipser
Grower Relations Manager
209-846-6112

Farm Evaluation Survey
Overall Instructions

This Farm Evaluation Survey is prepopulated with member information you provide to the Coalition. If any information is incorrect, please indicate the correct information on the surveys.

Included with this Farm Evaluation is one or more maps of your parcels (APNs) enrolled with us, depending on the number and location of parcels. Each map will have the parcel(s) outlined and include:

APN Parcel Number,

Field ID used for your county Pesticide Use Reporting;

If no Field ID is indicated, add to the space next to each APN listed (each APN can have one or more field ID numbers.)

The practices recorded on the survey should correspond to the APN parcels and Field IDs shown on the map. You may subdivide a parcel into fields, assigning each field a name or number (if one is not already assigned).

For example, you might have two fields of different crops in one APN so they could be identified as APN# 111-00-222; field A; APN# 111-00-222, field B, etc. or any other designation used by the County Agricultural Commissioner or your own records.

If all parcels/fields listed have the same practices, fill out one (1) survey for all enrolled parcels and return. Check the corresponding box(es) on the far left column to indicate the field(s) covered by the answers.

If parcels/fields have different practices, make copies of the survey and fill out one (1) survey for each parcel/field with different practices.

When copies are made, check the box next to the parcel(s) and Field ID(s) that the survey responses apply to.

For example, if a member has 3 parcels enrolled with one crop grown (Parcel A, B and C) and he manages Parcel A and B the same, he can fill out one survey for Parcels A and B. Another survey needs to be filled out for Parcel C to record the crops or practices that differ from A and B.

Step By Step Instructions

The Farm Evaluation has 5 components:

Part A: Whole Farm Evaluation
Part B: Specific Field Evaluation
Part C: Irrigation Well Information
Part D: Sediment Erosion Control Practices
Farm Map(s)

Step 1: Part A: answer Questions 1 – 3 for all enrolled parcels.

Step 2: Part B, question 1: check the parcels that the survey applies to by putting a check in the left hand box. Use the attached farm map(s) to help identify parcel numbers including Field IDs. This information corresponds to the map(s) in Part E. Fill in any missing information. Remember to fill out a survey for each of your enrolled parcels.

Step 3: Part B: Answer questions 2 – 4 for parcels that **you identified** at the top of the page by checking the box next to the parcel. *If parcels or fields differ in their practices you must make a copy of the page to answer questions for parcels/fields differently.*

Step 4: Part C: Answer Questions 1 and 2 pertaining to irrigation well information. Give each well a unique identifier (Well ID) and list that in column 1. Use the Well ID to link the well management practices to the wells identified on the map. Also identify the location of both active and abandoned wells on the map. Transfer that identifier to the Farm Map and keep the map in your files (do not return to the Coalition). The map with well identifiers must be produced if you ever have a Regional Water Board compliance inspection.

Step 5: Part D: Answer questions as you did in Part B in reference to parcels that **you identify** at the top of the page by checking the box next to the parcel. *If parcels or fields differ in their practices you must make a copy of the page to answer questions for parcels/fields differently. Make sure you check off which parcels your answers apply to.*

Step 6: Review the Farm Map of your enrolled parcels (those that were checked in **Step 2**) and make any necessary changes to the boundaries. For example, a parcel may be enrolled and assigned to a member; however the acreage enrolled is only part of the entire parcel. If you need to update the parcel boundaries, return a copy of the updated map to the Coalition with your Farm Evaluation so the information is linked to the correct piece of land.

Step 7: Sign the bottom of Part A to certify that all of the information provided is current and accurate. Return to the Coalition the signed Farm Evaluation (Part A – Part D) and map(s) (Part E, if updated with parcel / field ID information).

Part A – Whole Farm Evaluation

Member Name: Robin Singh **Coalition Member ID#:** 6545

1. Pesticide Application Practices (check all that apply)

- ☐ County Permit Followed
- ☐ Follow Label Restrictions
- ☐ Sensitive Areas Mapped
- ☐ Attend Trainings
- ☐ End of Row Shutoff When Spraying
- ☐ Avoid Surface Water When Spraying
- ☐ Reapply Rinsate to Treated Field
- ☐ Target Sensing Sprayer used
- ☐ Use Drift Control Agents
- ☐ Monitor Wind Conditions
- ☐ Use Appropriate Buffer Zones
- ☐ Use Vegetated Drain Ditches
- ☐ Monitor Rain Forecasts
- ☐ Use PCA Recommendations
- ☐ Chemigation
- ☐ Other _____
- ☐ Other _____

2. Who do you have help develop your crop fertility plan? (Check all that apply)

- ☐ Certified Crop Advisor (CCA)
- ☐ Pest Control Advisor (PCA)
- ☐ Certified Technical Service Providers by NRCS
- ☐ Professional Soil Scientist
- ☐ Professional Agronomist
- ☐ Independently Prepared by Member
- ☐ UC Farm Advisor
- ☐ None of the above

3. Does your farm have the potential to discharge sediment to off-farm surface waters?

(circle one) Yes No

4. Complete Part D on sediment and erosion control practices used on farm field(s).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel or represented Members properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment for violations.

Signature	Printed Name	Date

Part B – Specific Field Evaluation

Member Name: Robin Singh **Coalition Member ID#:** 6545

1. Identify the Parcels and Fields that this survey applies to by checking the box in the first column below. ***Fill out a separate survey for parcels/fields with different practices.***

SW High Vulnerability is when a parcel is within an area covered by a Surface Water Management Plan.
GW High Vulnerability is areas having potential for groundwater contamination.

	High Vulnerability		Parcel (APN)	Field ID	Acres	Crop
	SW	GW				
☐	☐	☑	044-240-003	B28		Pistachios
☐	☐	☑	044-240-003	B28		Grapes
☐	☑	☑	046-030-002			Pistachios
☐	☑	☑	046-030-002			Pistachios
☐	☑	☑	046-030-002	MAROLIVE		Pistachios
☐	☑	☑	046-030-002	8		Pistachios
☐	☑	☑	046-050-020			Walnuts
☐	☑	☑	046-050-020	4-02W		Walnuts
☐	☑	☑	046-050-021	4-01G		Walnuts
☐	☑	☑	046-050-021	4-01W		Walnuts
☐	☑	☑	046-050-022			Walnuts
☐	☑	☑	046-050-022	4-01W		Walnuts
☐	☑	☑	046-080-002	2-06G		Grapes
☐	☑	☑	046-080-002	2-04G		Grapes
☐	☑	☑	046-080-002	2-05G		Grapes
☐	☑	☑	046-080-002			Grapes
☐	☑	☑	046-080-003			Walnuts/Prunes/Almond
☐	☑	☑	046-080-003	2-01		Walnuts/Prunes/Almond
☐	☑	☑	046-080-003	2-03P1		Walnuts/Prunes/Almond
☐	☑	☑	046-080-003	2-03P2		Walnuts/Prunes/Almond
☐	☑	☑	046-080-003	2-02		Walnuts/Prunes/Almond
☐	☑	☑	046-080-003			Walnuts/Prunes/Almond
☐	☑	☑	046-090-027	B4		Grapes
☐	☑	☑	046-090-027			Grapes
☐	☑	☑	046-090-027	8-01		Grapes
☐	☑	☑	046-090-027			Grapes
☐	☑	☑	046-090-027	8-01		Grapes
☐	☑	☑	046-090-027	B2		Grapes
☐	☑	☑	047-200-003			Almonds
☐	☑	☑	047-200-003	13		Almonds
☐	☑	☑	047-200-003	1312		Almonds
☐	☑	☑	047-200-003	7-2		Almonds
☐	☑	☑	047-200-003	7-1		Almonds
☐	☑	☑	048-020-002	1		Almonds
☐	☑	☑	048-020-002	1-02		Almonds
☐	☑	☑	048-020-002	1-01		Almonds
☐	☑	☑	048-020-002	1-04		Almonds

☐	☑	☑	048-020-002		_____	Almonds
☐	☑	☑	048-020-002	3736P38E	_____	Almonds
☐	☑	☑	048-020-002	1-03	_____	Almonds
☐	☑	☑	048-020-002		_____	Almonds

2. Irrigation Practices *(A secondary system could be used for crop germination, frost protection, crop cooling, etc.)*

Primary (check one)

- ☐ Drip
- ☐ Micro Sprinkler
- ☐ Furrow
- ☐ Sprinkler
- ☐ Border Strip
- ☐ Flood

Secondary (if applicable, check one)

- ☐ Drip
- ☐ Micro Sprinkler
- ☐ Furrow
- ☐ Sprinkler
- ☐ Border Strip
- ☐ Flood

3. Irrigation Efficiency Practices (check all that apply)

- ☐ Laser Leveling
- ☐ Use of E_T in scheduling irrigations
- ☐ Water application scheduled to need
- ☐ Use of moisture probe (e.g. irrometer or tensiometer)
- ☐ Soil Moisture Neutron Probe
- ☐ Pressure Bomb
- ☐ Other _____
- ☐ Other _____

4. Nitrogen Management Methods to Minimize Leaching Past The Root Zone **(check all that apply)**

- ☐ Cover Crops
- ☐ Split Fertilizer Applications
- ☐ Soil Testing
- ☐ Tissue/Petiole Testing
- ☐ Variable Rate Applications using GPS
- ☐ Foliar N Application
- ☐ Irrigation Water N Testing
- ☐ Fertigation
- ☐ Other _____
- ☐ Other _____

Part C – Irrigation Well Information

1. Do you have any irrigation wells on parcels associated with this Farm Evaluation? (Circle one) Yes No
2. Are you aware of any known abandoned wells associated with this Farm Evaluation? (Circle one) Yes No
3. For abandoned wells, mark the location of these wells on the attached map(s) or your own farm map with a unique Well ID of your choice and fill in the following table. For each well, be sure to fill in the table with the Well ID that corresponds to the map and put an "X" next to the practices that apply to the individual well. If the well has been abandoned, indicate the year the well was abandoned (write "UNK" if the year is unkown; approximate is ok) and mark how the well was abandoned:

Well ID	Wellhead Protection					Abandoned Wells			
	Ground Sloped Away from Wellhead	Standing water avoided around wellhead	Good "Housekeeping" Practices*	Air Gap (for non - pressurized systems	Backflow Preventive / Check Valve	If abandoned, year abandoned	Destroyed – certified by county	Destroyed by licensed professional	Destroyed - Unknown method

*Good housekeeping practices include keeping the area surrounding the wellhead clean of trash, debris and any empty containers.

Comments: _____

Part D – Sediment Erosion Control Practices

Member Name: Robin Singh **Coalition Member ID#:** 6545

1. Identify the Parcels and Fields that this survey applies to by checking the box in the first column below. Fill out a separate survey for parcels/fields with different practices.

	High Vulnerability SW	GW	Parcel (APN)	Field ID	Acres	Crop
☐	☐	☑	044-240-003	B28		Pistachios
☐	☐	☑	044-240-003	B28		Grapes
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☐	☑	☑	046-050-021	4-01G		Walnuts
☐	☑	☑	046-050-021	4-01W		Walnuts
☐	☑	☑	046-050-022	4-01W		Walnuts
☐	☑	☑	046-050-022			Walnuts
☐	☑	☑	046-080-002	2-04G		Grapes
☐	☑	☑	046-080-002	2-05G		Grapes
☐	☑	☑	046-080-002			Grapes
☐	☑	☑	046-080-002	2-06G		Grapes
☐	☑	☑	046-080-003			Walnuts/Prunes/Almo
☐	☑	☑	046-080-003	2-03P2		Walnuts/Prunes/Almo
☐	☑	☑	046-080-003	2-03P1		Walnuts/Prunes/Almo
☐	☑	☑	046-080-003	2-01		Walnuts/Prunes/Almo
☐	☑	☑	046-080-003			Walnuts/Prunes/Almo
☐	☑	☑	046-080-003	2-02		Walnuts/Prunes/Almo
☐	☑	☑	046-090-027	8-01		Grapes
☐	☑	☑	046-090-027	8-01		Grapes
☐	☑	☑	046-090-027			Grapes
☐	☑	☑	046-090-027	B2		Grapes
☐	☑	☑	046-090-027			Grapes
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☐	☑	☑	047-200-003	13		Almonds
☐	☑	☑	047-200-003			Almonds
☐	☑	☑	047-200-003	7-1		Almonds
☐	☑	☑	047-200-003	7-2		Almonds
☐	☑	☑	047-200-003	1312		Almonds
☐	☑	☑	048-020-002			Almonds
☐	☑	☑	048-020-002	1-04		Almonds
☐	☑	☑	048-020-002	1-03		Almonds
☐	☑	☑	048-020-002	3736P38E		Almonds
☐	☑	☑	048-020-002			Almonds

☐	☑	☑	048-020-002	1-02	_____	Almonds
☐	☑	☑	048-020-002	1-01	_____	Almonds
☐	☑	☑	048-020-002	1	_____	Almonds

2. Irrigation Practices for Managing Sediment and Erosion

- ☐ In-furrow dams are used to increase infiltration and settling out of sediment prior to entering the tail ditch.
- ☐ The time between pesticide applications and the next irrigation is lengthened as much as possible to mitigate runoff of pesticide residue.
- ☐ Shorter irrigation runs are used with checks to manage and capture flows.
- ☐ PAM (polyacrylamide) used in furrow and flood irrigated fields to help bind sediment and increase infiltration.
- ☐ Use drip or micro-irrigation to eliminate irrigation drainage.
- ☐ Use of flow dissipaters to minimize erosion at discharge point.
- ☐ Tailwater Return System.
- ☐ Catchment Basin.
- ☐ No irrigation drainage due to field or soil conditions.

3. Cultural Practices to Manage Sediment and Erosion

- ☐ Storm water is captured using field borders.
- ☐ Vegetated ditches are used to remove sediment as well as water soluble pesticides, phosphate fertilizers and some forms of nitrogen.
- ☐ Vegetative filter strips and buffers are used to capture flows.
- ☐ Sediment basins / holding ponds are used to settle out sediment and hydrophobic pesticides such as pyrethroids from irrigation and storm runoff.
- ☐ Cover crops or native vegetation are used to reduce erosion.
- ☐ Hedgerows or trees are used to help stabilize soils and trap sediment movement.
- ☐ Soil water penetration has been increased through the use of amendments, deep ripping and/or aeration.
- ☐ Crop rows are graded, directed and at a length that will optimize the use of rain and irrigation water.
- ☐ Creek banks and stream banks have been stabilized.
- ☐ Subsurface pipelines are used to channel runoff water.
- ☐ Berms are constructed at low ends of fields to capture runoff and trap sediment.
- ☐ Minimum tillage incorporated to minimize erosion.
- ☐ Field is lower than surrounding terrain.
- ☐ No storm drainage due to field or soil conditions.

Part E - Farm Map

(Keep Onsite - For Inspection Purposes Only)

Update map with well locations and surface water discharge points

Legend
X - In Use Well Locations
A - Known Abandoned Well Locations
DP - Off Farm Surface Water Discharge Points

N
0 0.0425 0.085
Miles

Robin Singh, Member 6545

KEEP FOR YOUR RECORDS

Date Prepared: 6/18/2014
ESJWQC

Part E - Farm Map

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Update map with well locations and surface water discharge points

Legend
X - In Use Well Locations
A - Known Abandoned Well Locations
DP - Off Farm Surface Water Discharge Points

N
0 0.05 0.1
Miles

Robin Singh, Member 6545

KEEP FOR YOUR RECORDS

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ESJWQC

Part E - Farm Map

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Update map with well locations and surface water discharge points

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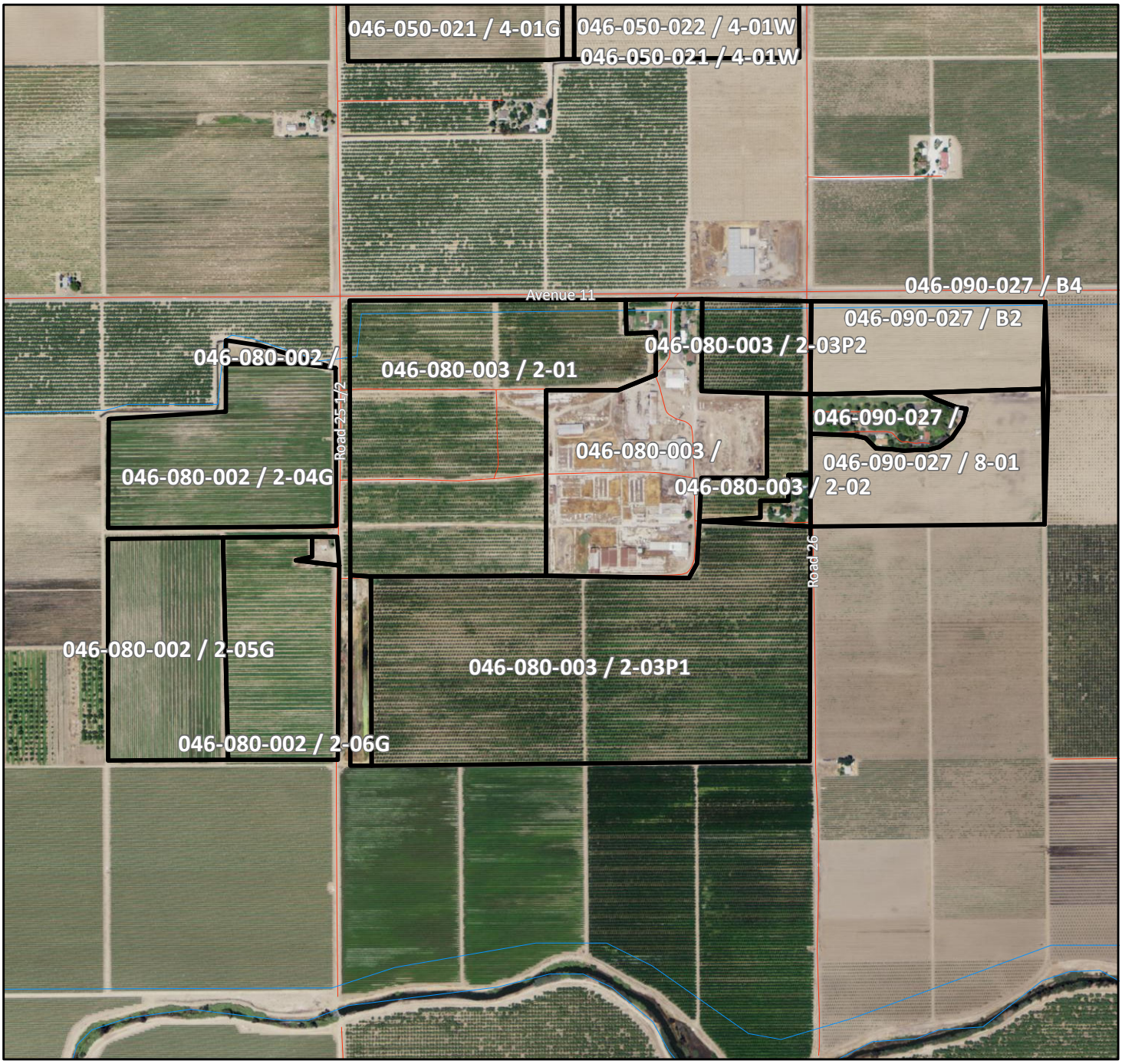
DP - Off Farm Surface Water Discharge Points



N
0 0.075 0.15
Miles

Robin Singh, Member 6545

KEEP FOR YOUR RECORDS

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ESJWQC

Part E - Farm Map

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Update map with well locations and surface water discharge points

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N
0 0.05 0.1
Miles

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N
0 0.05 0.1
Miles

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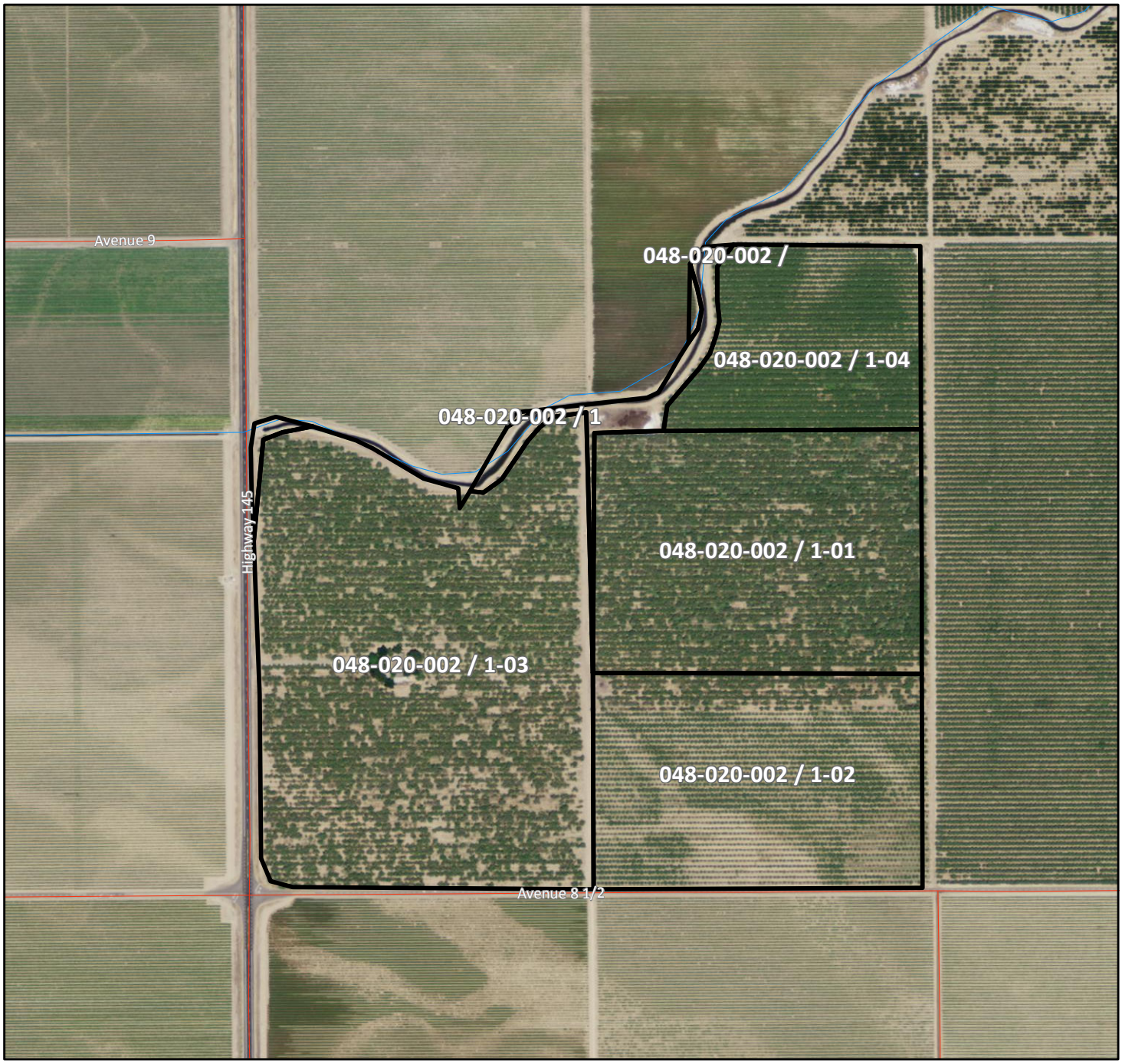

N

0 0.05 0.1
Miles

Robin Singh, Member 6545

KEEP FOR YOUR RECORDS

Date Prepared: 6/18/2014
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