Appendix I

Individual Contact Packet

East San Joaquin Water Quality Coalition

Individual Member Meeting

Date: _____

Attendees: _____ _____

_____ _____

_____ _____

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NOTIFICATION:
The management practices discussed during individual contacts will be recorded and participating growers will be visited in a year to determine which, if any, new practices were implemented. This information will be used to evaluate water quality monitoring results to assess any trends/associations between water quality and improved management practices and will remain confidential between the Coalition and the member.

Example

Subwatershed Parcel Information

ESJ Member ID# XXXX
First, Last Name
Company Name
Street Address
City, State
Phone: (XXX) XXX-XXXX

Parcel Information

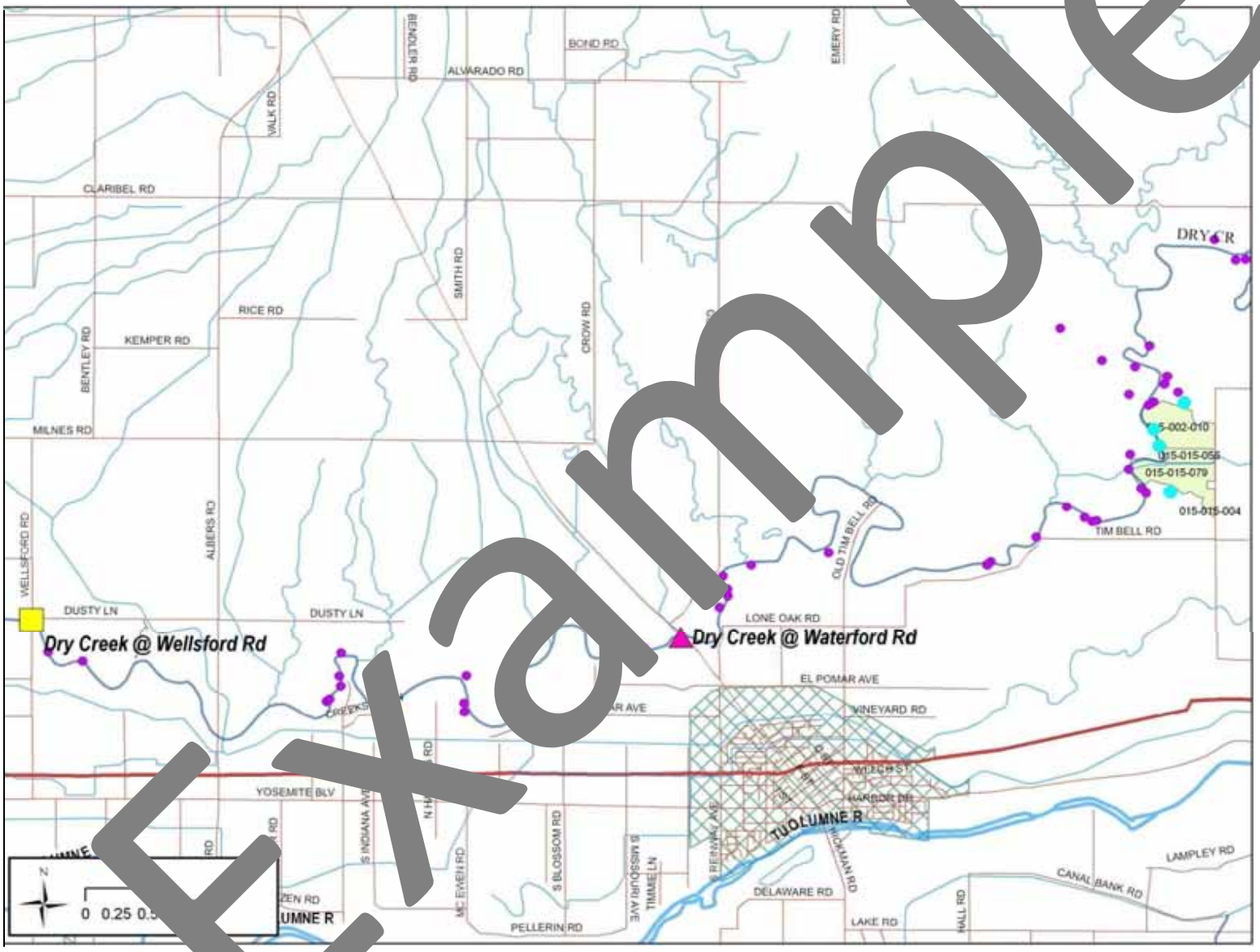
County:	Stanislaus
Subwatershed:	Dry Creek @ Wellsford
Creek Walk:	Yes
Number of drains:	4

APN(s)	TRS	Crop	Acres
015-002-010	3S11E12	Cherries/Walnuts	2.4
015-015-004	3S11E12	Almonds/Walnuts	3.32
015-015-056	3S11E12	Walnuts	22.62
015-015-079	3S11E12	Apricots/Walnuts	[illegible]

Notes

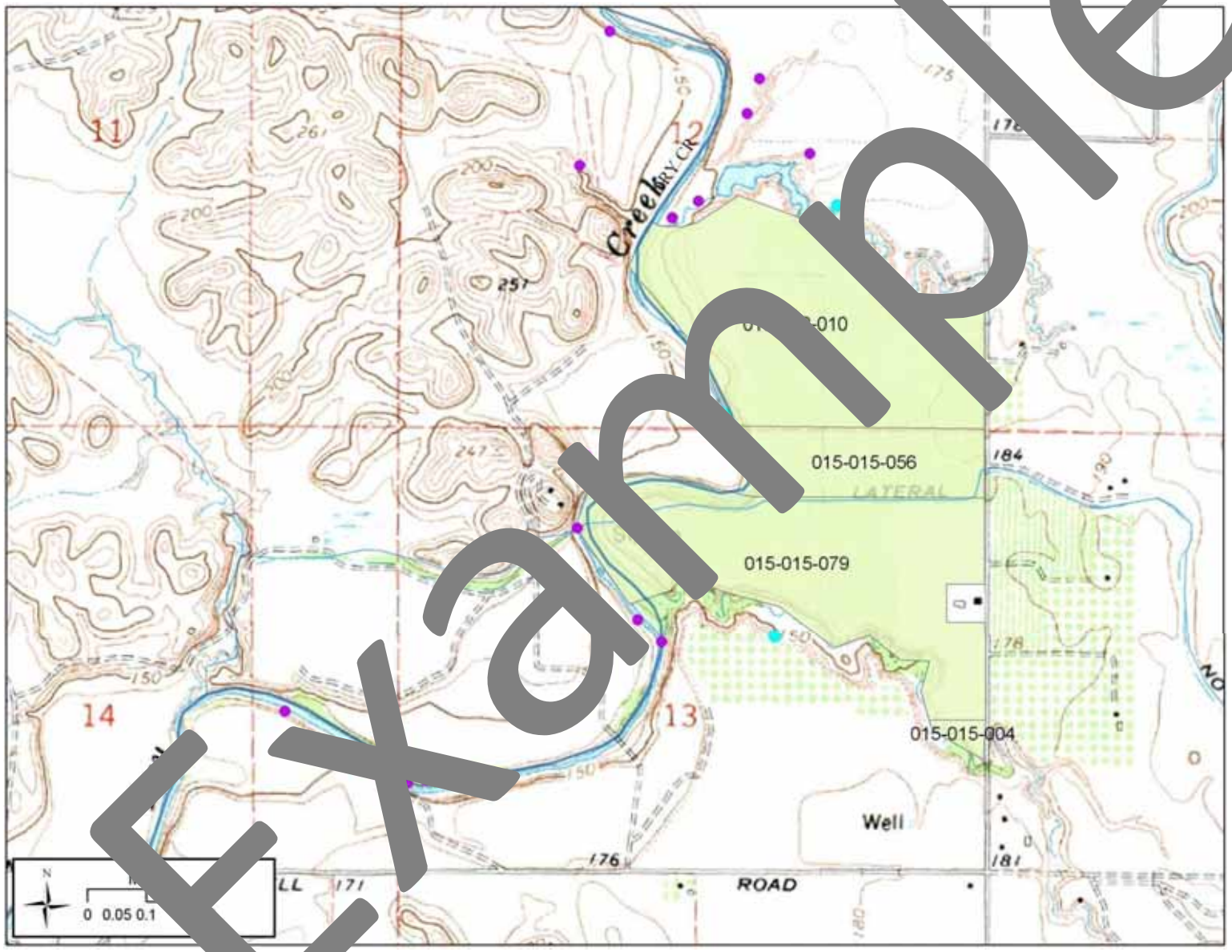
Example

Figure 1. Member XXXX parcels in relation to monitoring locations.



Example

Figure 2. Member XXXX parcels (closeups). Associated drains are in blue.



Example

Subwatershed Exceedances

Pesticide exceedances within this subwatershed; water quality trigger limits are noted in parenthesis:

Station Name	Season	Sample Date	Copper, µg/L (Based on hardness)	Chlorpyrifos, µg/L (0.015)	Diuron, µg/L (2)	*Ceriodaphnia dubia*, Survival (%)	*Selenastrum capricornutum*, Total Cell Count
Dry Creek @ Wellsford Rd	Irrigation	17/Aug/2005		0.024			
Dry Creek @ Wellsford Rd	Irrigation	13/Jul/2006		0.026			
Dry Creek @ Wellsford Rd	Irrigation	10/Aug/2006		0.[illegible]			
Dry Creek @ Wellsford Rd	Irrigation	14/Sep/2006				70	
Dry Creek @ Wellsford Rd	Irrigation	17/Apr/2007	5.1 (5)				
Dry Creek @ Wellsford Rd	Irrigation	17/Jul/2007		0.021			
Dry Creek @ Wellsford Rd	Irrigation	11/Sep/[illegible]		0.[illegible]3			
Dry Creek @ Wellsford Rd	Storm	15/F[illegible]005				80	
Dry Creek @ Wellsford Rd	Storm	[illegible]1/Feb/20[illegible]			37		508000
Dry Creek @ Wellsford Rd	Sto[illegible]	[illegible]/2007					220000
Dry Creek @ Wellsford Rd	Storm	28/Fe[illegible]2007	8.4 (7.2)		4		298750
Dry Creek @ Wellsford Rd	[illegible]torm	[illegible]/Mar/2007					826000
		Priorities	**C**	**A**	**C**	**C**	**C**

Example

Pesticide Use Report Information (Chemistry)

Chemical and products applied in the past (based on PUR data):

- Chlorpyrifos- almond, walnut (July)
- Copper- almond (January)
- Diuron- walnut (February)

Chemistry:

TRS*	Commodity	Product Name	Chemical Name	Date	lb per acre	orpyrifo	Cop	Diuron
3S11E16	ALMOND	LORSBAN-4E	CHLORPYRIF	/2006	292	1		
				7/ 06	0. 2	1		
		NU-COP 50DF	COPPE HYDRO E	1/5/2	6.1091		1	
	WALNUT	DIREX 4L	DIURON	2/10/2 7	0.7333			1
		LORSBAN-4E	RPYRIFO 07		1.3938	1		
	WALNUT (ENGLISH WALNUT, PERSIAN WALNUT)	LORSBAN-4	CHLORPYR S	7/7/2 6	1.8584	1		

*List contains PUR data for all parcels within TRS, however icular grower d not necessarily own all parcels within TRS.

Example

Pesticide Use Report Information (Toxicity)

Toxicity:

TRS*	Commodity	Product Name	Chemical Name	Application Date	lb AI per	Water flea toxicity	Algae toxicity
3S11E16	ALMOND	GALIGAN 2E OXYFLUORFEN HERBICIDE	OXYFLUORFEN	1/29/2007	0.084		1
		GORDON'S ORCHARD MASTER BROADLEAF HERBICIDE	2,4-D, DIMETHYLAMINE SALT	1/[illegible]/2005	[illegible]		
		PERM-UP 3.2 EC INSECTICIDE	PERMETHRIN	5/24/2006	0.1595	1	
				[illegible]/2006	0.2492	1	
				9/[illegible]/2006	0.2492	1	
		PROWL H2O HERBICIDE	PENDIMETHALIN	1/29/2007	1.0331		1
		ROUNDUP ORIGINAL MAX HERBICIDE	GLYPHOSATE POTASSIUM SALT	1/[illegible]/2007	1.0030		1
		ROVRAL 4 FLOWABLE	IPRODIONE	[illegible]/12/2005	0.4994	1	
		WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	LAMBDA-CYHALOTHRIN	[illegible]/2006	0.0313	1	
				7/8/2006	0.0314	1	
	GRAPES, WINE	ACRAMITE 50WS	FENAZATE	8/19/2006	0.5	1	
		DANITOL 2.4 EC SPRAY	FENPROPATHRIN	5/22/2006	0.1955	1	
	WALNUT	DIREX 4L	DIURON	2/10/2007	0.7333		1
		FARMPOWER.COM ORYZALIN 4A.S.	ORYZALIN	2/10/2007	0.1254		1
		GOAL 1[illegible] HERBICIDE	OXYFLUORFEN	2/10/2007	0.0500		1
		MON-[illegible]49 HERBICIDE	GLYPHOSATE, ISOPROPYLAMINE SALT	2/10/2007	0.5037		1
		SIM-TROL 4L	SIMAZINE	2/10/2007	0.5001		1
	WALNUT (ENGLISH WALNUT, PERSIAN WALNUT)	DU PONT ASANA XL INSECTICIDE	ESFENVALERATE	5/21/2006	0.0362	1	
				7/7/2006	0.0289	1	

*List contains [illegible] data for [illegible] parcels within TRS, however particular grower does not necessarily own all parcels within TRS.

Example

Pest Management Checklist

1. Structural Management Practices (from survey):
   - ☑ Vegetative Filter Strips around field edges
   - ☑ Grass row centers (in orchards)
   - ☐ Other: Maintain native buffers along streams
2. Additional Structural Management Practices (not on survey):
   - ☐ Recirculation/tail water return system
   - ☐ Retention pond/holding basin
3. Spray management practices (applicable / not applicable):

Prior to 2005	2005 or later	
☐	☐	Adjust spray nozzles to match crop canopy profile
☐	☐	Outside nozzles shut off when spraying outer rows next to sensitive sites
☐	☐	Uses of nozzles that provide largest effective droplet size to minimize drift
☐	☐	Spray areas close to waterbodies when the wind is blowing away from the waterbodies
☐	☐	Use electronic controlled sprayer nozzles (e.g. Smart Sprayer)
☐	☐	Use air blast applications when wind is between [illegible] mph and upwind of a sensitive site

4. How often is spray equipment calibrated?
   - ☐ Prior to each application
   - ☐ Once per month
   - ☐ Once per year
   - ☐ Never
5. Have you considered alternative strategies to using diazinon or chlorpyrifos either during the dormant or growing season?
   - ☐ Yes ☐ No

Notes

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Example

Irrigation Water Management Checklist

Exceedances associated with irrigation:

- **Chlorpyrifos (almond/walnut)**

Irrigation Water Questions

1. Irrigation System:
   - ☐ Surface
   - ☐ Sprinkler
   - ☐ Microirrigation
   - ☐ None
   - ☐ Other: _____
2. Irrigation management practices:

Prior to 2005	2005 or later	
☐	☐	Optimize irrigation efficiency but maintaining appropriate slope, tillage, furrow lengths, and irrigation set times
☑	☑	Use drainage basins (sediment ponds) or wetlands to capture and retain runoff for 72 hours
☐	☐	Use tailwater return system
☐	☐	Use of Polyacrylamide (PAM) to increase water infiltration and reduce furrow erosion
☐	☐	Schedule irrigations based on actual soil moisture levels

Notes

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Example

Dormant Spray Management Checklist

Exceedances associated with dormant sprays:

- **Copper (almond/walnut)**
- **Diuron (walnut)**

Dormant Spray Questions

1. How many acres sprayed with dormant pesticides are within 100' upslope of any surface water (including ag ditches)? _____acres
2. Do you apply when soil moisture is at field capacity?

   ☐ Yes ☐ No
3. Prior to applying winter dormant sprays, what is the condition of your orchard floor?

   ☐ Vegetative Cover
   ☑ Some Vegetation
   ☐ Vegetated Cover w/Sprayed Berms
   ☐ Disked
   ☐ No Vegetation and Not Disked
4. Do you contain runoff from your orchard(s)?

   ☐ Yes ☑ No ☐ No runoff on property
5. Have you been informed of methods to reduce the potential of pesticide runoff?

   ☐ Yes ☐ No
6. Dormant spray management practices

Prior to 2005	2005 or later	
☐	☐	Check weather conditions prior to spraying
☑	☑	Use vegetative buffer strips
☑	☑	Use grass row center
☐	☐	Tailwater return system
☐	☐	Maintain setback zones
☐	☐	Check droplet size of nozzles
☐	☐	Calibrate nozzles

Notes

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Example

Erosion and Sediment Management Checklist

Exceedances associated with dormant sprays:

- **Copper (almond/walnut)**

Erosion and Sediment Questions

1. Sediment management practices:

Prior to 2005	2005 or later	
☑	☑	Vegetation is planted or allowed to grow in and along ditch
☐	☐	Maintain vegetated filter strips at least 10' wide
☐	☐	Use of Polyacrylamide (PAM) to increase water infiltration and re[illegible]e furrow [illegible]sion
☐	☐	Sediment control basins
☑	☑	Settling ponds
☐	☐	Constructed wetlands

Notes

Example

Recommended Practices

Pesticide mixing/loading management practices:

- ☐ Check for faulty hoses and ensure drain is in place prior to filling the tank
- ☐ Do not overflow tank
- ☐ Use an airgap between the fill tube and the tank
- ☐ During mixing/loading tank is less than full to minimize spills
- ☐ Someone is present during pesticide/fertilizer mixing/loading operations to watch for s
- ☐ Clean up after pesticide/fertilizer spills promptly

Spray management practices (applicable / not applicable):

- ☐ Adjust spray nozzles to match crop canopy profile
- ☐ Outside nozzles shut off when spraying outer rows next to sensitive
- ☐ Uses of nozzles that provide largest effective droplet size to mini ze dri
- ☐ Spray areas close to waterbodies when the wind is blowing away rom the w bodies
- ☐ Use electronic controlled sprayer nozzles (e.g. Smart Sprayer
- ☐ Use air blast applications when wind is between 3-10 mph and u d of a sen ve site

Irrigation management practices:

- ☐ Optimize irrigation efficiency but maintai priate slope llage, fur w lengths, and irrigation set times
- ☐ Use drainage basins (sediment ponds, etlands to ture and retain runoff for 72 hours
- ☐ Use tailwater return system
- ☐ Use of Polyacrylamide (PAM) to increase w infiltration and reduce furrow erosion
- ☐ Schedule irrigations based moisture ls

Dormant spray manag ment prac es:

- ☐ Check weather co tions prio spr ng
- ☐ Use vegetative filte trips
- ☐ e grass ro
- ☐ Tailwater return sys m
- ☐ Maintain setback zo
- ☐ Chec oplet size of zzles
- ☐ rate nozzles

Sediment m gement practices:

- ☐ Vegetation is planted or allowed to grow in and along ditches
- ☐ Maintain vegetated filter strips at least 10' wide
- ☐ Use of Polyacrylamide (PAM) to increase water infiltration and reduce furrow erosion
- ☐ Sediment control basins
- ☐ Settling ponds

Example

☐ Constructed wetlands

Other:

☐ _____
☐ _____
☐ _____
☐ _____

Notes

Example