

Monitoring Report Submittal Transmittal Form

Attn: Guy Childs (916) 464-4648
Central Valley Regional Water Quality Control Board
11020 Sun Center Drive #200
Rancho Cordova, CA 95670-6114

Discharger: The Morning Star Packing Company, LP and Fred Gobel
Name of Facility: Williams Facility
WDRs Order Number: R5-2013-0144
WDID: 5A062005001
County: Colusa

I am hereby submitting to the Central Valley Water Board the following information:

Check all that apply:

Monthly Monitoring Report for the month of DECEMBER
1st / 2nd / 3rd / 4th (circle one) Quarterly Monitoring Report for the year of N/A
1st / 2nd (circle one) Semi-annual Monitoring Report for the year N/A
Annual Monitoring Report for the year N/A

Violation Notification

During the monitoring period, there were/were not (circle one) any violations of the WDRs.

- 1. The violations were: (add extra pages as needed)
2. Have the violations been corrected? Yes/No (circle one) If no, what will be done to correct the violations: (add extra pages as needed)
Handwritten notes: SETTLING POND WAS DRAINED BY NOV 1, HOWEVER, ACCUMULATED SLUDGE AND SEDIMENT CANNOT BE REMOVED UNTIL MAY/JUNE 2015. THE SETTLING POND WILL BE EXCAVATED AND APPLIED TO LAA IN MAY/JUNE 2015

Certification Statement

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

Signature: [Handwritten Signature] Phone: (530) 666-6600
Printed Name: ROSS OLIVEIRA Date: 1/27/15



THE MORNING STAR PACKING COMPANY

724 Main Street, Woodland CA 95695

16 January 2015

Mr. Guy Childs
Central Valley Regional Water Quality Control Board
11020 Sun Center Drive #200
Rancho Cordova, CA 95670-6114

Re: Monthly Report for The Morning Star Packing Company – Williams, according to Waste Discharge Requirements Order No. R5-2013-0144.

Dear Mr. Childs:

Please find herewith the December Report with items requested in the Monthly Monitoring Reports section of the Monitoring and Reporting Program No. R5-2013-0144.

1. Tabulated pond monitoring data.

The tabulated cooling pond monitoring results for December are included as **Attachment A**.

2. Tabulated daily flow measurements from each wastewater source and supplemental irrigation water to each check in each LAA field.

As The Morning Star Packing Company – Williams is not processing, there are no daily flow measurements from the washwater sources nor supplemental irrigation water. The December logsheets are included as **Attachment B**.

3. The cumulative annual wastewater (Station 1 and Station 2) flow discharged to the LAAs to date, the average daily flow for the month, and comparison to the average daily flow limit.

As The Morning Star Packing Company – Williams is not processing the December average daily flow is zero and a comparison to the average daily flow limit is not needed. The cumulative annual washwater from Station 1 and Station 2 are provided below and included in **Attachment B**:

Source	Annual Flow	Flow Limit
Station 1: Settling Pond/Gutters	219,806,607	
Station 2: Cooling Pond	0	
Total Washwater Discharge	219,806,607	422,000,000

Williams
2211 Old HWY 99
Williams, California
95987

Santa Nella
12045 S Ingomar Grade Rd
Los Banos, California
93635

Los Banos
13448 Volta Rd
Los Banos, California
93635



4. *Tabulated wastewater monitoring data and calculation of the running average for each group of three consecutive sample results for BOD and total nitrogen.*

As The Morning Star Packing Company – Williams is not processing, there is no washwater monitoring data and calculations to be submitted, however, a December logsheet is included as **Attachment C**.

5. *A current site plan depicting the irrigation checks within each LAA field that will be used during the calendar year, including all water conveyance ditches and internal berms that divide each LAA (where applicable).*

An updated 2014 site plan for the facility's LAA and individual field maps are provided in **Attachment D**.

6. *Tabulated update cropping information for each LAA field that includes at least:*

- a. *The crop that will be grown in each field;*
- b. *Planned and actual planting dates;*
- c. *Planned and actual harvest dates;*
- d. *Planned and actual cattle grazing schedule, location of cattle grazing, including the number of head on each field;*
- e. *Typical maximum expected and actual yield at harvest in applicable crop units per acre;*
- f. *Crop total nitrogen demand; and*
- g. *Crop average evapotranspiration rate in inches*

The tabulated cropping information for each LAA is included as **Attachment E**.

7. *Tabulated land application area monitoring data for each LAA field, including; calculation of the hydraulic loading, irrigation cycle average BOD loading, and total nitrogen loading to date from all sources. The average of the three most recent monitoring results shall be used to determine irrigation cycle average BOD and total nitrogen loading. Loading rates for Settling Pond solids, residual solids, cattle manure and commercial fertilizers shall be calculated separately using actual load analytical results and application areas.*

The tabulated land application area monitoring data for each LAA field are also included as **Attachment E**.

8. *A summary of the daily pre-application inspection reports for the month.*

As The Morning Star Packing Company – Williams is not processing, there is no pre-application inspection report to submit, however, a December logsheet is included as **Attachment F**.

9. Calculation of the flow-weighted average FDS concentration to date (representative of the Settling Pond and plant sanitation/clean-up water) as monitored at Station 1.

As The Morning Star Packing Company – Williams is not processing, there is no calculation of the flow-weighted average FDS concentration to report, however, this information is presented at the bottom of **Attachment C**.

10. Residual solids monitoring data and monthly mass of residual solids generated and applied to each LAA field and/or disposed of off-site.

As The Morning Star Packing Company – Williams is not processing, there is no residual solids monitoring data to report, however, a December logsheet is included as **Attachment G**.

11. A comparison of monitoring data to the flow limitations, effluent limitations; mass loading limitations (for each LAA field), and discharge specifications, and an explanation of any violation of those requirements.

As The Morning Star Packing Company – Williams is not processing, there is no comparison of monitoring data to the flow limitations, effluent limitations, mass loading limitations or discharge specifications.

12. If requested by staff, copies of laboratory analytical report(s).

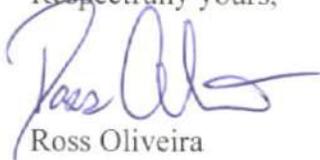
As The Morning Star Packing Company – Williams is not processing, there are no laboratory analytical reports to be submitted.

13. Copies of current calibration logs for all field test instruments.

The calibration log for December and calibration logs for the flow monitoring devices are included as **Attachment H**.

"I certify under penalty of law that this document and all attachments have been prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. 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 submitting false information, including the possibility of fine and imprisonment."

Respectfully yours,


Ross Oliveira

Attachment A

MONTHLY MONITORING REPORT

MONTH

December

 YEAR

2014

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
 FACILITY: Morning Star Tomato Packing Plant
 COUNTY: Colusa
 WDRs Order: R5-2013-0144

POND MONITORING RESULTS

Monitoring Location	Monitoring Week	Monitoring Date	Monitoring Time	Dissolved Oxygen ¹ (mg/L)	pH	Freeboard (0.1 feet)	Odors ³	Monthly Pond Berm/Leeve Condition ⁴	Technican's Initials
Settling Pond	Week 1								
	Week 2								
	Week 3								
	Week 4								
	Week 5								
Cooling Pond	Week 1								
	Week 2								
	Week 3								
	Week 4								
	Week 5	12/30/14	8:00 AM	6.9	8.10	2.0	No	Good	J.I.

Sample frequency shall be weekly during the processing season and monthly during the non-processing season.

¹Samples shall be collected at a depth of one foot from each pond in use, opposite the inlet.

²Freeboard shall be measured to the nearest 0.1 foot from staff gauge.

³Odors shall be reported as (none, slight, moderate, strong)

⁴If a pond berm/levee conditon is not reported as good, a description of the condition of the berm/levee shall be provided, as well as the maintenance that was completed.

Attachment B

MONTHLY MONITORING REPORT

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
 FACILITY: Morning Star Tomato Packing Plant
 COUNTY: Colusa
 WDRs Order: R5-2013-0144

MONTH

December

 YEAR

2014

FLOW MONITORING RESULTS :

Monitoring Date (Day of Month)	Flow Source					Names of LAAs Irrigated	Station 3 - Total Discharge to LAAs (inches)
	Supplemental GCID Irrigation Water (gallons; calculated)	Station 1 - Settling Pond Water (gallons; meter)	Station 2 - Cooling Pond Water (gallons; meter)	Station 3 - Total Discharge to LAAs (gallons; meter)			
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
Total Monthly Flow (MG)	0	0	0			0	
Average Daily Flow (MGD)	#DIV/0!	#DIV/0!	#DIV/0!			#DIV/0!	
Cumulative Annual Flow to Date (MG)	151,700,652	219,806,607	0			0	

Attachment C

MONTHLY MONITORING REPORT

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel

MONTH

December

FACILITY: Morning Star Tomato Packing Plant

YEAR

2014

COUNTY: Colusa

WDRs Order: R5-2013-0144

WASTEWATER MONITORING RESULTS :

Samples Collected from Station 1

Monitoring Week	Monitoring Date	BOD (mg/L)	3-Sample Average BOD (mg/L) ¹	Total Nitrogen (mg/L)	3-Sample Average Total Nitrogen (mg/L) ¹	FDS (mg/L)
Second to Last Week of Previous Month						
Last Week of Previous Month						
Week 1 of Current Month						
Week 2 of Current Month						
Week 3 of Current Month						
Week 4 of Current Month						
Week 5 of Current Month						

Sampling is not required during periods when no wastewater is discharged to the LAAs.

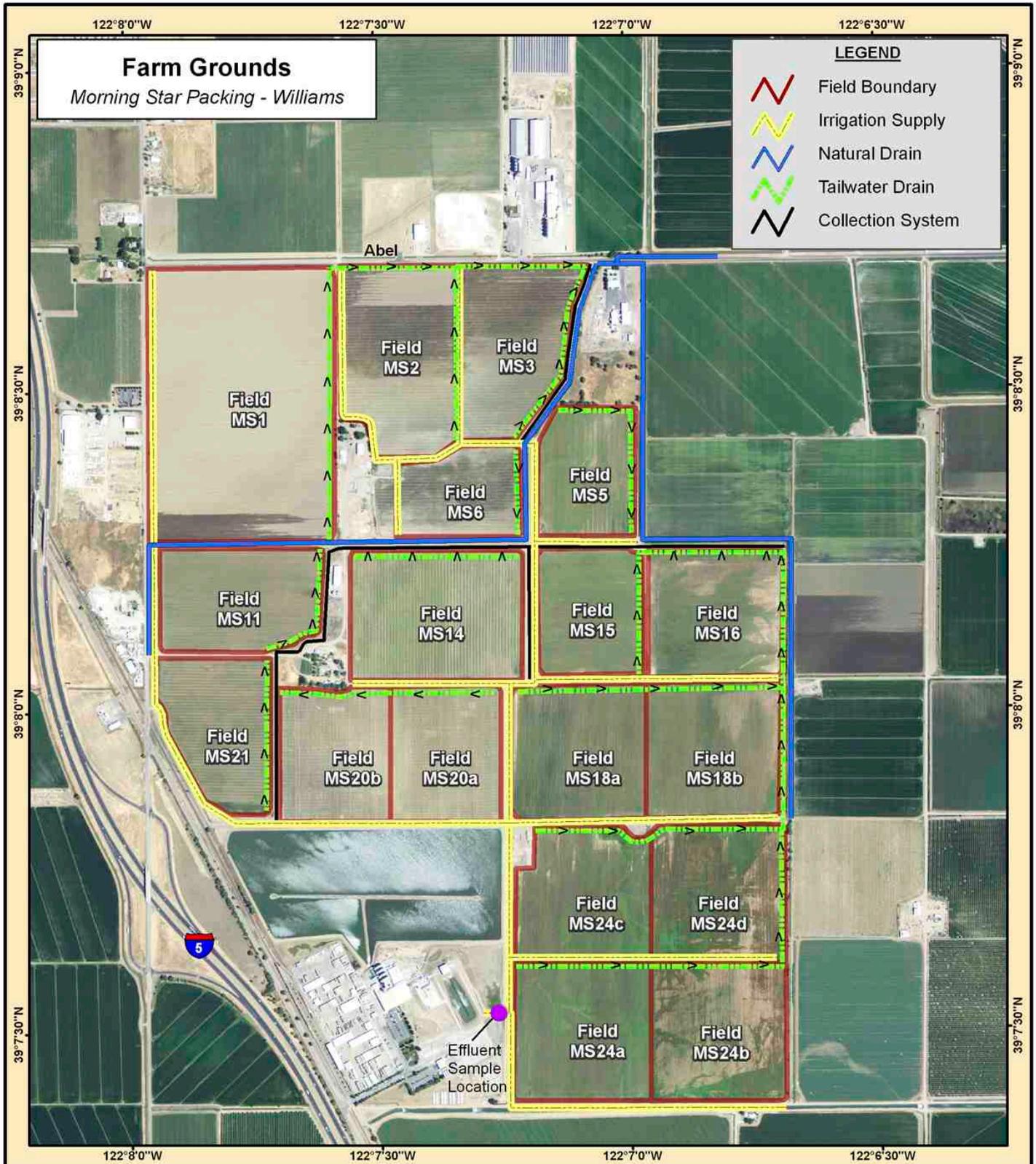
Average BOD Concentration (mg/L)¹	#DIV/0!
Average Monthly Total Nitrogen Concentration (mg/L)²	#DIV/0!
Monthly Average FDS Concentration (mg/L)	#DIV/0!
Flow Weighted Average FDS Concentration to Date (mg/L)³	#DIV/0!

¹See MRP Reporting Section A.4.

²Value to be used in annual loading calculation (WDR Section C.2.a).

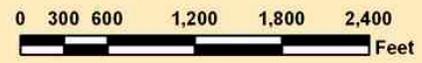
³Calculated per WDR Section C.1.a (Show Calculations).

Attachment D



Custom Mapping Services, L.L.C. does not guarantee the accuracy or content of the data used in this map. Map is intended for pictorial use only and is not to be used for legal purposes.

Map Scale 1:14,400 1 Inch = 1,200 Feet



Data Source:
Aerial Photography: Summer 2012
Projection: UTM Zone 10N, NAD 83
State of California: Colusa County

Map Source:
Custom Mapping Services, L.L.C.
Prairieville, LA (225) 677-7207
Map Date: February 27, 2014
Map ID: CMS2014-038

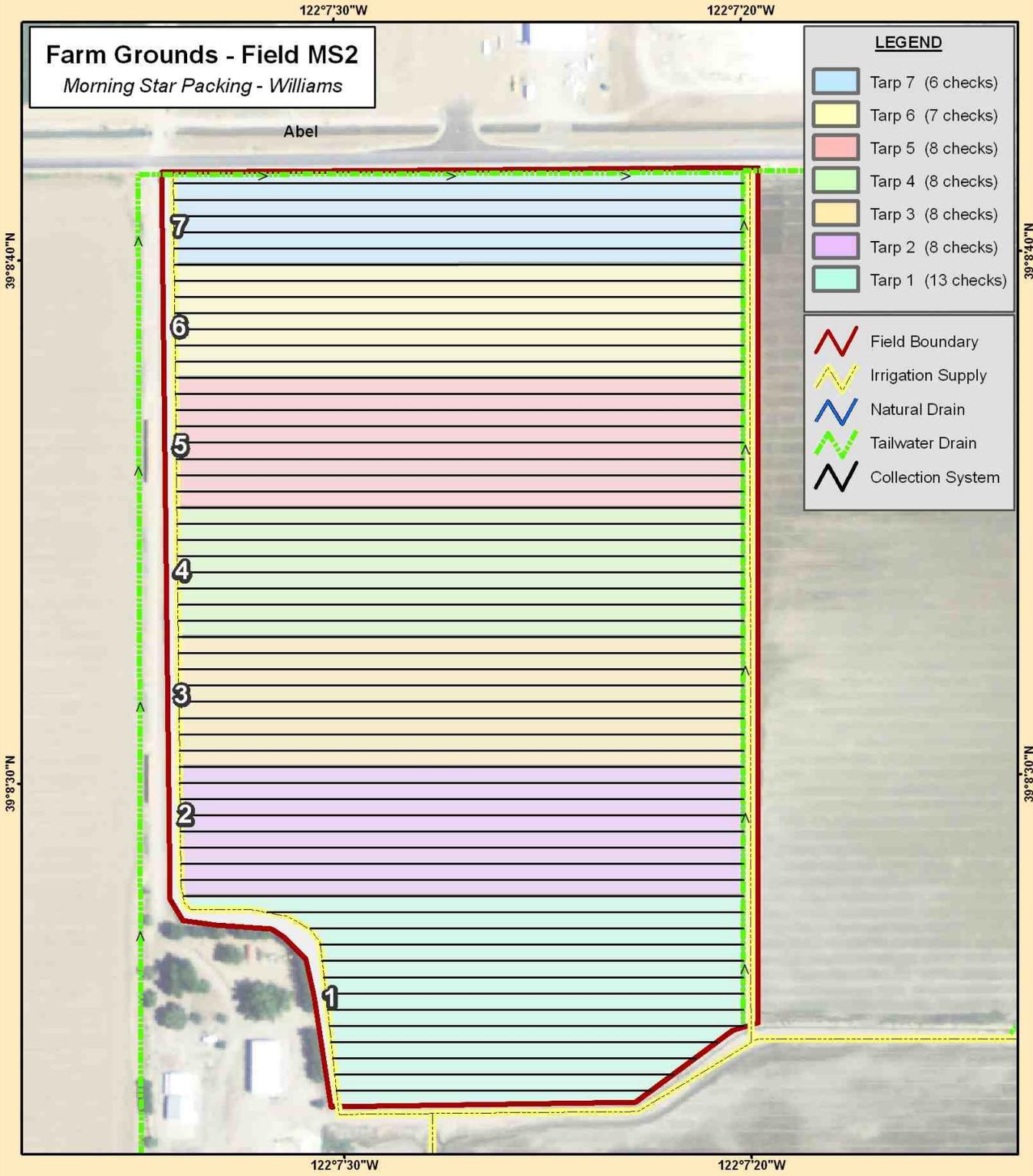
Farm Grounds - Field MS2
Morning Star Packing - Williams

Abel

LEGEND

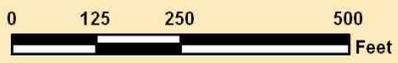
-  Tarp 7 (6 checks)
-  Tarp 6 (7 checks)
-  Tarp 5 (8 checks)
-  Tarp 4 (8 checks)
-  Tarp 3 (8 checks)
-  Tarp 2 (8 checks)
-  Tarp 1 (13 checks)

-  Field Boundary
-  Irrigation Supply
-  Natural Drain
-  Tailwater Drain
-  Collection System



Custom Mapping Services, L.L.C. does not guarantee the accuracy or content of the data used in this map. Map is intended for pictorial use only and is not to be used for legal purposes.

Map Scale 1:3,000 1 Inch = 250 Feet



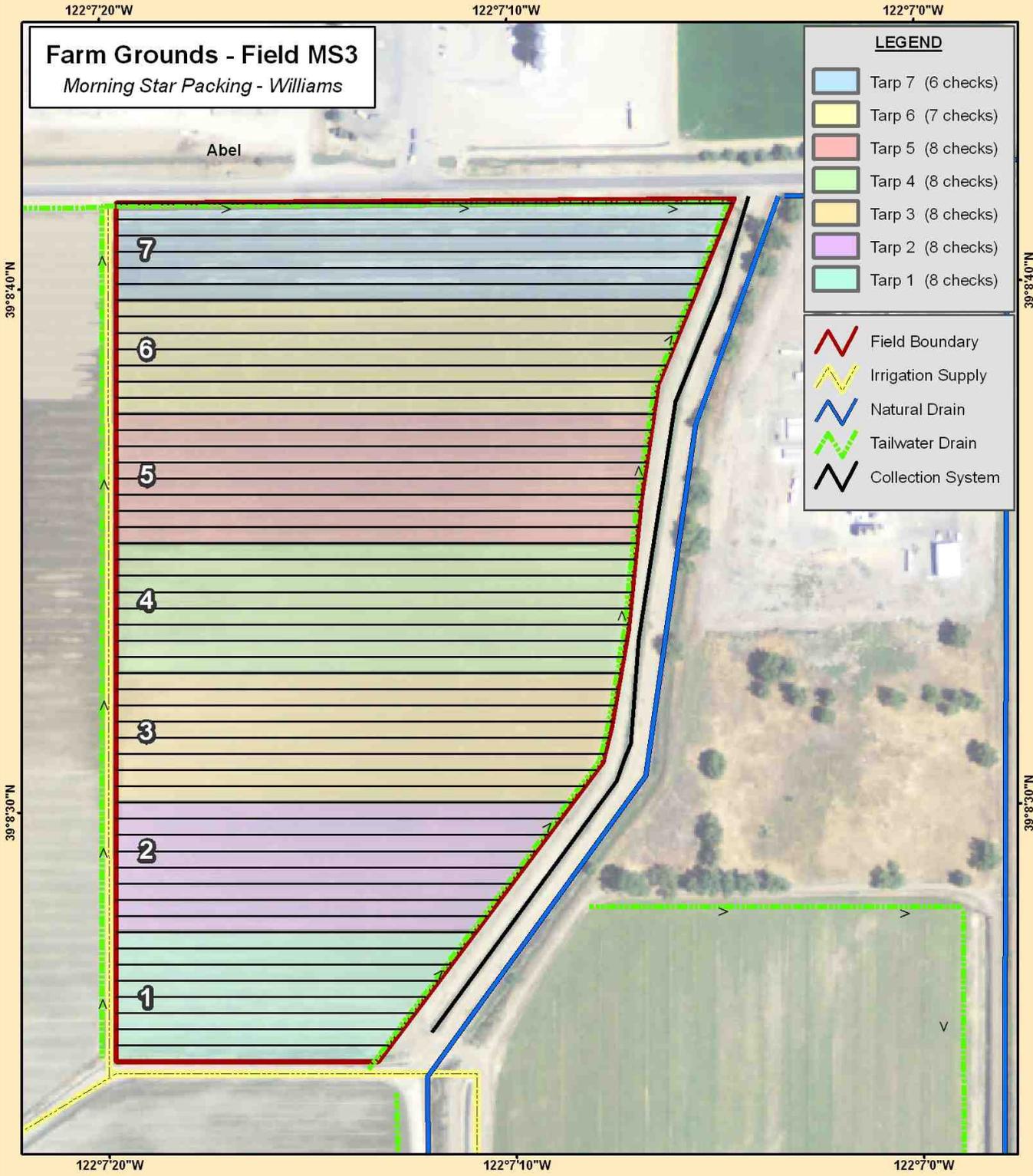
Data Source:
Aerial Photography: Summer 2012
Projection: UTM Zone 10N, NAD 83
State of California: Colusa County

Map Source:
Custom Mapping Services, L.L.C.
Prairieville, LA (225) 677-7207
Map Date: March 18, 2014
Map ID: CMS2014-043

Farm Grounds - Field MS3
Morning Star Packing - Williams

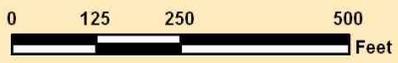
LEGEND

-  Tarp 7 (6 checks)
 -  Tarp 6 (7 checks)
 -  Tarp 5 (8 checks)
 -  Tarp 4 (8 checks)
 -  Tarp 3 (8 checks)
 -  Tarp 2 (8 checks)
 -  Tarp 1 (8 checks)
-
-  Field Boundary
 -  Irrigation Supply
 -  Natural Drain
 -  Tailwater Drain
 -  Collection System



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Map Scale 1:3,000 1 Inch = 250 Feet



Data Source:
Aerial Photography: Summer 2012
Projection: UTM Zone 10N, NAD 83
State of California: Colusa County

Map Source:
Custom Mapping Services, L.L.C.
Prairieville, LA (225) 677-7207
Map Date: March 24, 2014
Map ID: CMS2014-044

Farm Grounds - Field MS5
Morning Star Packing - Williams

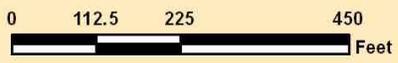
LEGEND

-  Tarp 4 (9 checks)
-  Tarp 3 (8 checks)
-  Tarp 2 (7 checks)
-  Tarp 1 (7 checks)
-  Field Boundary
-  Irrigation Supply
-  Natural Drain
-  Tailwater Drain
-  Collection System



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Map Scale 1:2,700 1 Inch = 225 Feet



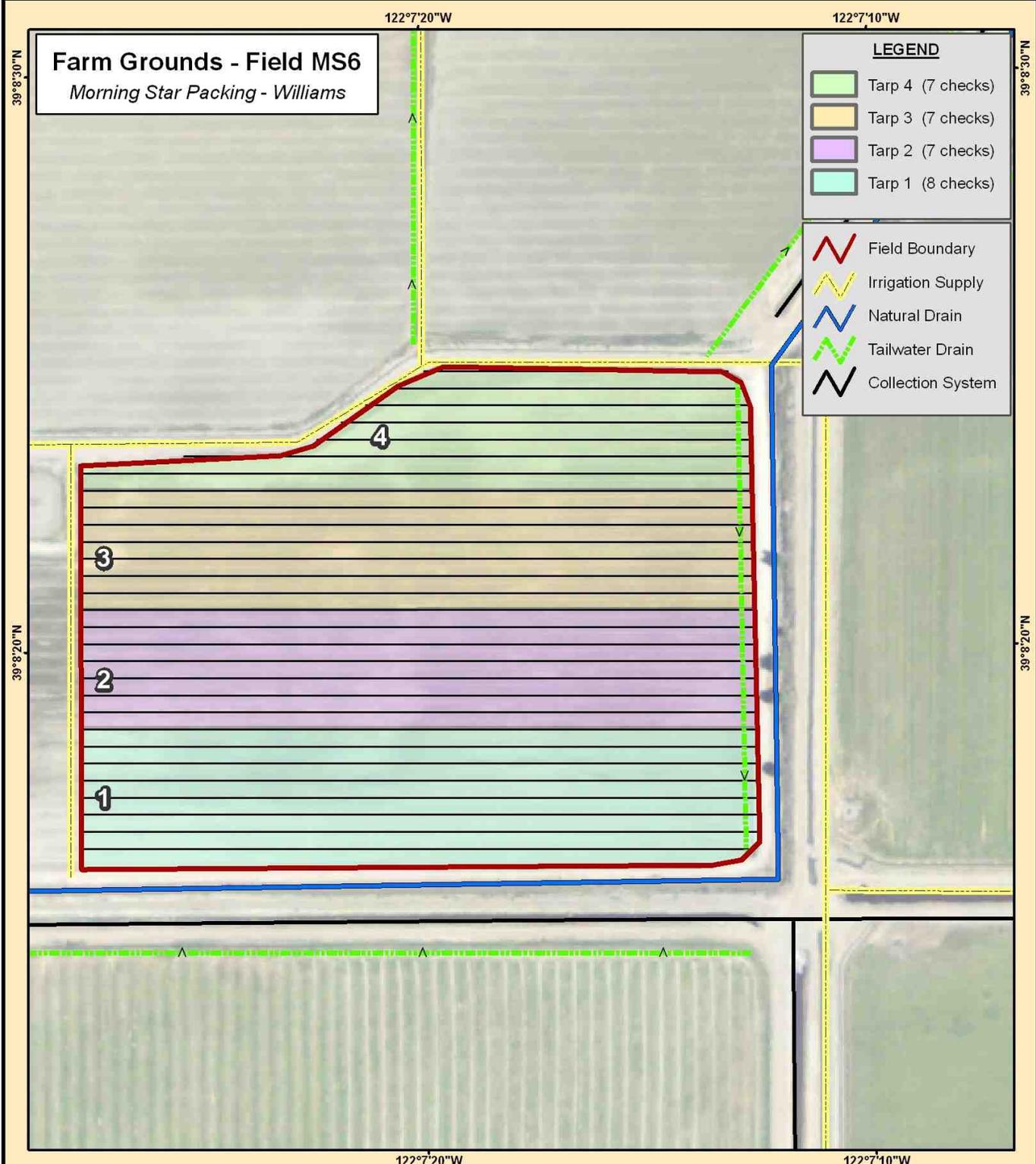
Data Source:
Aerial Photography: Summer 2012
Projection: UTM Zone 10N, NAD 83
State of California: Colusa County

Map Source:
Custom Mapping Services, L.L.C.
Prairieville, LA (225) 677-7207
Map Date: March 24, 2014
Map ID: CMS2014-049

Farm Grounds - Field MS6
Morning Star Packing - Williams

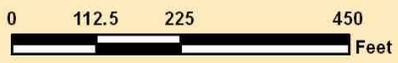
LEGEND

-  Tarp 4 (7 checks)
-  Tarp 3 (7 checks)
-  Tarp 2 (7 checks)
-  Tarp 1 (8 checks)
-  Field Boundary
-  Irrigation Supply
-  Natural Drain
-  Tailwater Drain
-  Collection System



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Map Scale 1:2,700 1 Inch = 225 Feet



Data Source:
Aerial Photography: Summer 2012
Projection: UTM Zone 10N, NAD 83
State of California: Colusa County

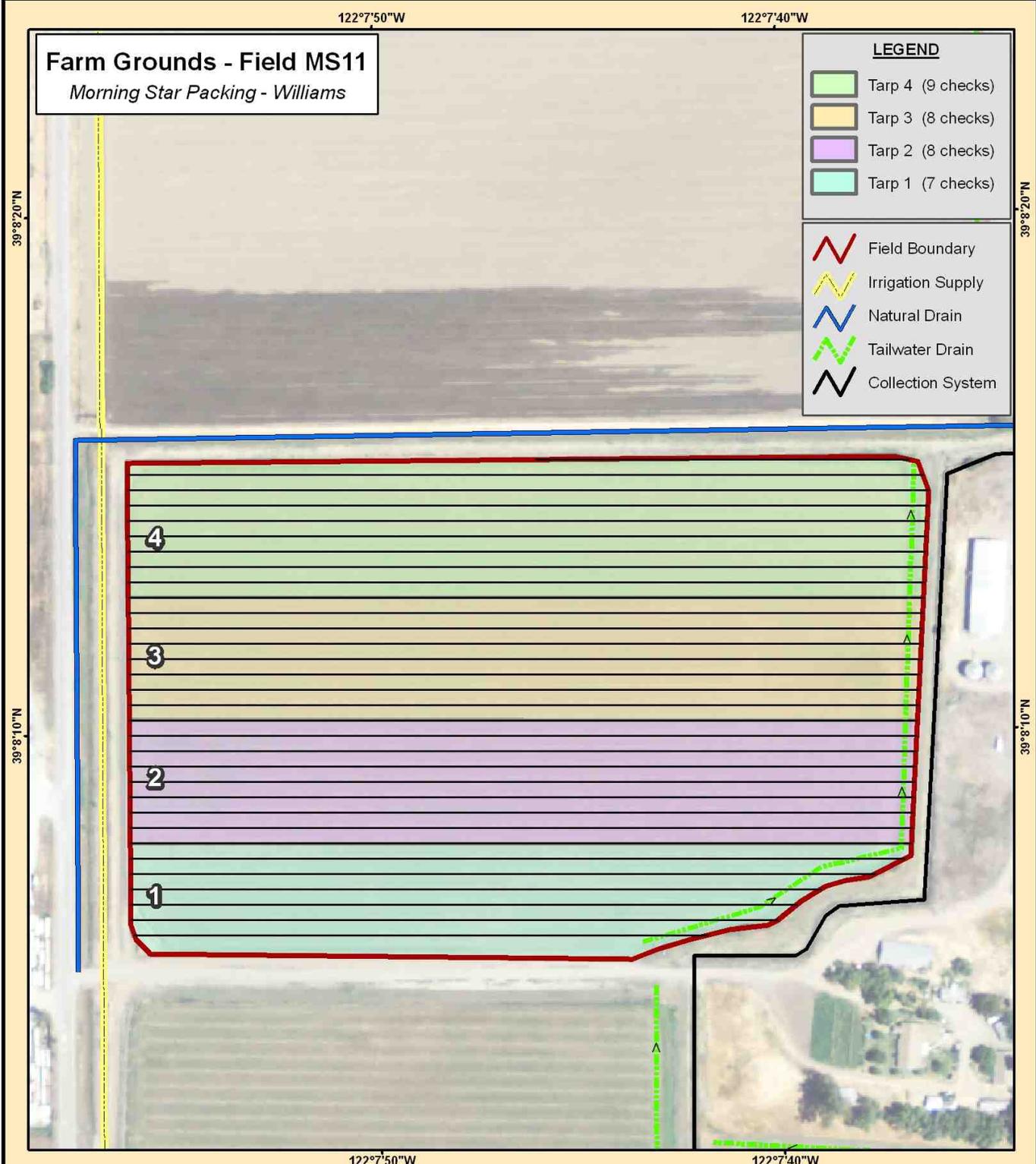
Map Source:
Custom Mapping Services, L.L.C.
Prairieville, LA (225) 677-7207
Map Date: March 24, 2014
Map ID: CMS2014-047

Farm Grounds - Field MS11
Morning Star Packing - Williams

LEGEND

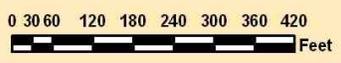
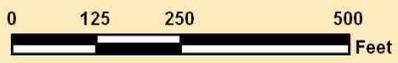
-  Tarp 4 (9 checks)
-  Tarp 3 (8 checks)
-  Tarp 2 (8 checks)
-  Tarp 1 (7 checks)

-  Field Boundary
-  Irrigation Supply
-  Natural Drain
-  Tailwater Drain
-  Collection System



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Map Scale 1:3,000 1 Inch = 250 Feet



Data Source:
 Aerial Photography: Summer 2012
 Projection: UTM Zone 10N, NAD 83
 State of California: Colusa County

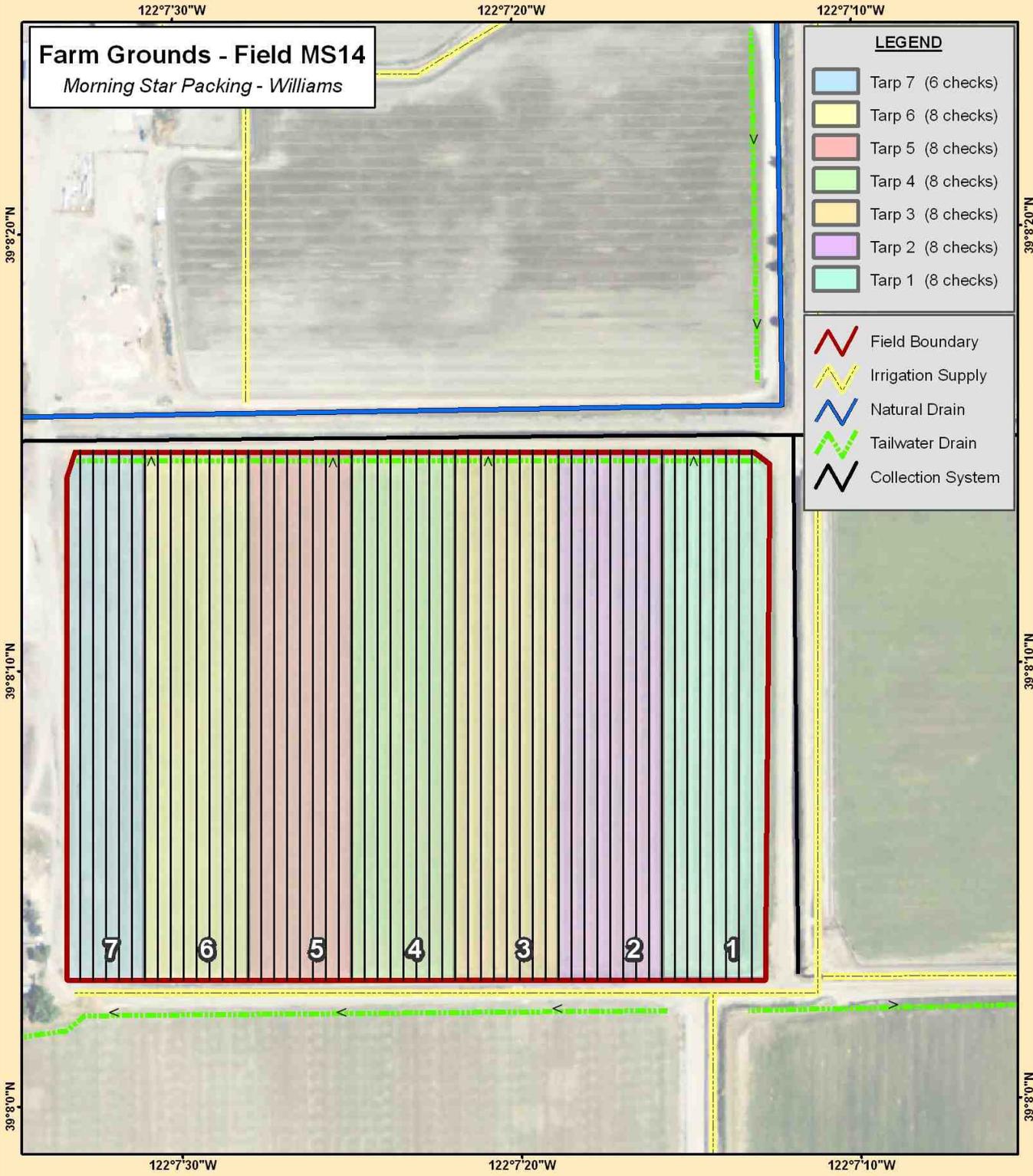
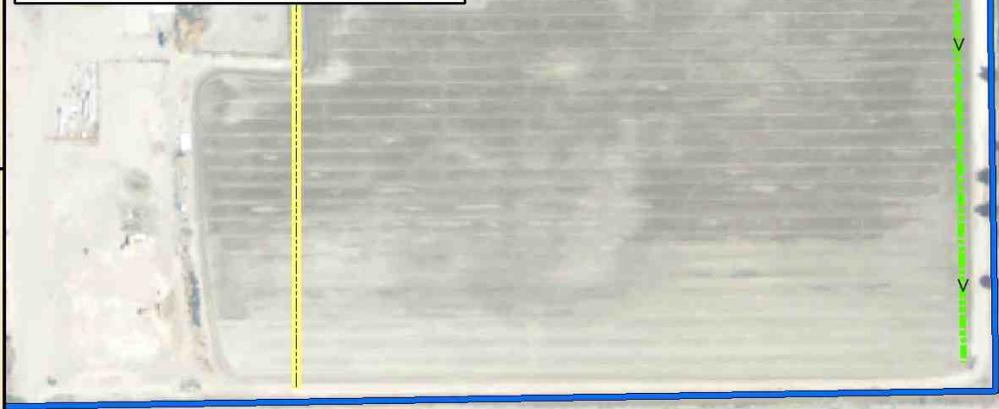
Map Source:
 Custom Mapping Services, L.L.C.
 Prairieville, LA (225) 677-7207
 Map Date: March 24, 2014
 Map ID: CMS2014-048

Farm Grounds - Field MS14
Morning Star Packing - Williams

LEGEND

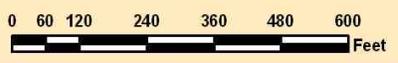
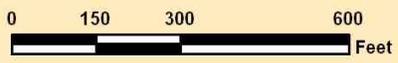
-  Tarp 7 (6 checks)
-  Tarp 6 (8 checks)
-  Tarp 5 (8 checks)
-  Tarp 4 (8 checks)
-  Tarp 3 (8 checks)
-  Tarp 2 (8 checks)
-  Tarp 1 (8 checks)

-  Field Boundary
-  Irrigation Supply
-  Natural Drain
-  Tailwater Drain
-  Collection System



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Map Scale 1:3,600 1 Inch = 300 Feet



Data Source:
Aerial Photography: Summer 2012
Projection: UTM Zone 10N, NAD 83
State of California: Colusa County

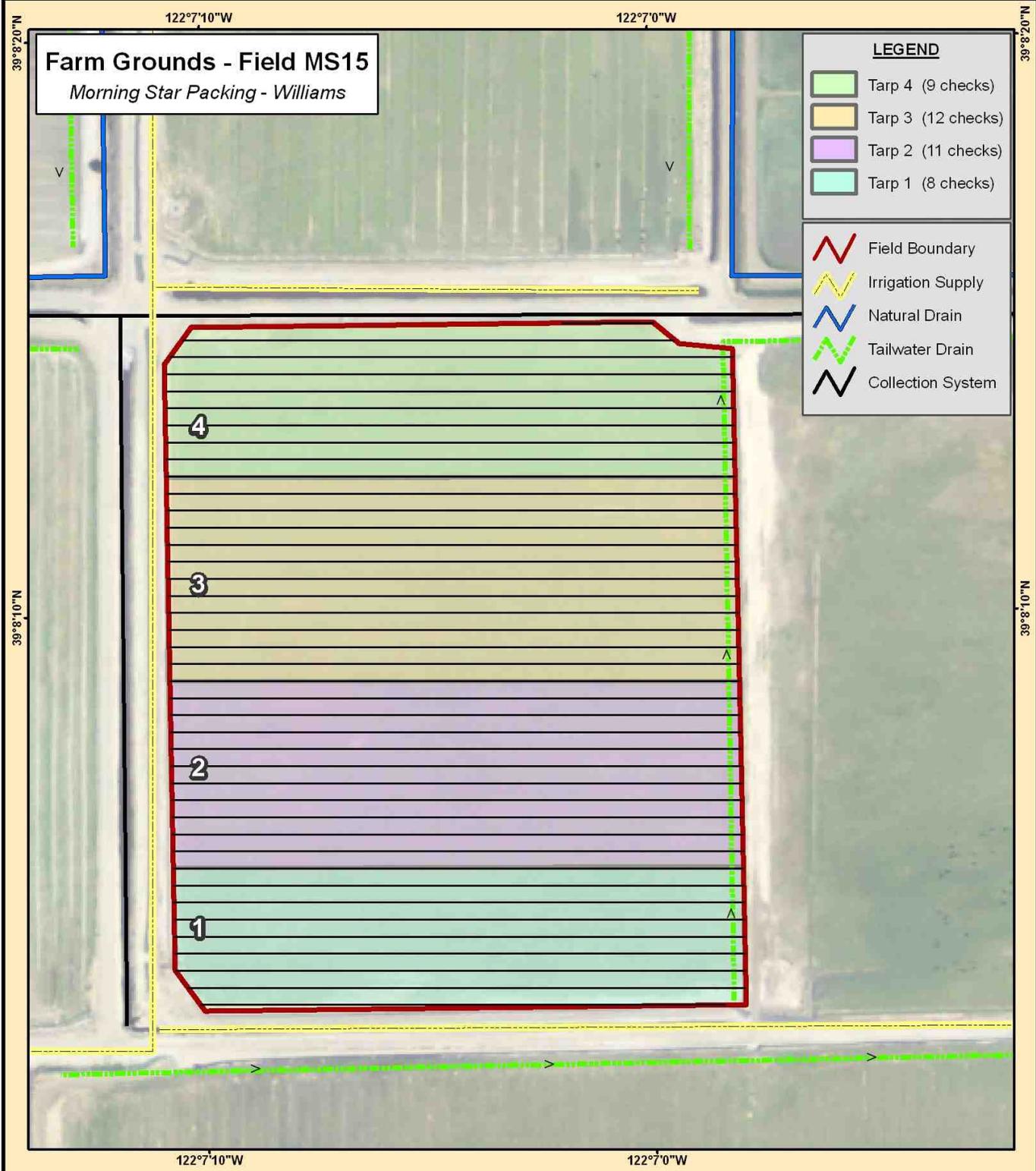
Map Source:
Custom Mapping Services, L.L.C.
Prairieville, LA (225) 677-7207
Map Date: March 24, 2014
Map ID: CMS2014-050

Farm Grounds - Field MS15
Morning Star Packing - Williams

LEGEND

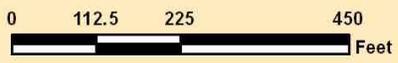
-  Tarp 4 (9 checks)
-  Tarp 3 (12 checks)
-  Tarp 2 (11 checks)
-  Tarp 1 (8 checks)

-  Field Boundary
-  Irrigation Supply
-  Natural Drain
-  Tailwater Drain
-  Collection System



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Map Scale 1:2,700 1 Inch = 225 Feet



Data Source:
Aerial Photography: Summer 2012
Projection: UTM Zone 10N, NAD 83
State of California: Colusa County

Map Source:
Custom Mapping Services, L.L.C.
Prairieville, LA (225) 677-7207
Map Date: March 24, 2014
Map ID: CMS2014-045

Farm Grounds - Field MS20a & 20b
Morning Star Packing - Williams

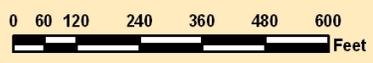
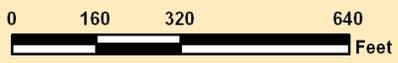
-  Field Boundary
-  Irrigation Supply
-  Natural Drain
-  Tailwater Drain
-  Collection System

LEGEND	
	Tarp 5b (7 checks)
	Tarp 4b (6 checks)
	Tarp 3b (7 checks)
	Tarp 2b (7 checks)
	Tarp 1b (7 checks)
	Tarp 5a (7 checks)
	Tarp 4a (7 checks)
	Tarp 3a (7 checks)
	Tarp 2a (6 checks)
	Tarp 1a (8 checks)



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Map Scale 1:3,840 1 Inch = 320 Feet



Data Source:
Aerial Photography: Summer 2012
Projection: UTM Zone 10N, NAD 83
State of California: Colusa County

Map Source:
Custom Mapping Services, L.L.C.
Prairieville, LA (225) 677-7207
Map Date: March 24, 2014
Map ID: CMS2014-051

Farm Grounds - Field MS21
Morning Star Packing - Williams

122°7'50"W

122°7'40"W

LEGEND

-  Tarp 7 (7 checks)
-  Tarp 6 (7 checks)
-  Tarp 5 (7 checks)
-  Tarp 4 (7 checks)
-  Tarp 3 (7 checks)
-  Tarp 2 (7 checks)
-  Tarp 1 (8 checks)

-  Field Boundary
-  Irrigation Supply
-  Natural Drain
-  Tailwater Drain
-  Collection System

39°8'0"N

39°8'0"N

39°7'50"N

39°7'50"N

122°7'50"W

122°7'40"W



Custom Mapping Services, L.L.C. does not guarantee the accuracy or content of the data used in this map. Map is intended for pictorial use only and is not to be used for legal purposes.

Map Scale 1:2,700 1 Inch = 225 Feet



Data Source:
Aerial Photography: Summer 2012
Projection: UTM Zone 10N, NAD 83
State of California: Colusa County

Map Source:
Custom Mapping Services, L.L.C.
Prairieville, LA (225) 677-7207
Map Date: March 24, 2014
Map ID: CMS2014-046

Attachment E

MONTHLY MONITORING REPORT

MONTH December
 YEAR 2014

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
 FACILITY: Morning Star Tomato Packing Plant
 COUNTY: Colusa
 WDRs Order: R5-2013-0144

LAND APPLICATION AREA MONITORING RESULTS FOR FIELD NAME

MS2

(Submit one sheet for each field irrigated during the month)

Field Irrigation Information

Area (acres)	41.05
Number of Checks	58
Check Width (feet)	30
Check Length (feet)**	1,100
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

Crop Information

Crop Name	Oats
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
Actual Harvest Date	
Expected Harvest Yield	3-3.5 tons/acre
Actual Harvest Yield	

Cattle Grazing Schedule

Number of Cattle on Field	0
Cattle Grazing Start Date	N/A
Cattle Grazing End Date	N/A
BOD Mass/Head (lb/day/head)	N/A
Nitrogen Mass/Head (lb/day/head)	N/A

**Est based on Google Earth

Day of Month	Start Time	End Time	Precipitation (Inches)	Names of Checks Irrigated Each Day	Types of Water Applied (wastewater, cooling water, supplemental irrigation)	Estimated Total Volume to Each Check (gal)	Total Irrigation Hours for Each Check	Area (acres)	Total Volume of Water Applied to Each Check (inches) ¹	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day) ²
1			0.02							
2			0.02							
3			0.02							
4			0.04							
5			0.02							
6			0.02							
7			0.02							
8			0.02							
9			0.00							
10			0.44							
11			2.65							
12			0.18							
13			0.00							
14			0.01							
15			1.10							
16			0.25							
17			0.08							
18			0.00							
19			0.61							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.01							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			5.51							

¹Calculations and assumptions shall be documented on a separate piece of paper

²See MRP page 3, "Land Application Area" footnote 4 for calculation instructions. Calculations and assumptions shall be documented on a separate piece of paper.

Total Nitrogen Loading Rate for Month (lb/ac)³ 0

³See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH

December

 YEAR

2014

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
 FACILITY: Morning Star Tomato Packing Plant
 COUNTY: Colusa
 WDRs Order: R5-2013-0144

LAND APPLICATION AREA MONITORING RESULTS FOR FIELD NAME

MS3

(Submit one sheet for each field irrigated during the month)

Field Irrigation Information

Area (acres)	41.05
Number of Checks	53
Check Width (feet)	30
Check Length (feet)**	1,000
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

**Est based on Google Earth

Crop Information

Crop Name	Oats
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
Actual Harvest Date	
Expected Harvest Yield	3-3.5 tons/acre
Actual Harvest Yield	

Cattle Grazing Schedule

Number of Cattle on Field	0
Cattle Grazing Start Date	N/A
Cattle Grazing End Date	N/A
BOD Mass/Head (lb/day/head)	N/A
Nitrogen Mass/Head (lb/day/head)	N/A

Day of Month	Start Time	End Time	Precipitation (Inches)	Names of Checks Irrigated Each Day	Types of Water Applied (wastewater, cooling water, supplemental irrigation)	Estimated Flow Rate to Each Check (gpm)	Total Irrigation Hours for Each Check	Area (acres)	Total Volume of Water Applied to Each Check (inches) ¹	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day) ²
1			0.02							
2			0.02							
3			0.02							
4			0.04							
5			0.02							
6			0.02							
7			0.02							
8			0.02							
9			0.00							
10			0.44							
11			2.65							
12			0.18							
13			0.00							
14			0.01							
15			1.10							
16			0.25							
17			0.08							
18			0.00							
19			0.61							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.01							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			5.51							

¹Calculations and assumptions shall be documented on a separate piece of paper

²See MRP page 3, "Land Application Area" footnote 4 for calculation instructions. Calculations and assumptions shall be documented on a separate piece of paper.

Total Nitrogen Loading Rate for Month (lb/ac)³

	0
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³See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH

December

 YEAR

2014

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
 FACILITY: Morning Star Tomato Packing Plant
 COUNTY: Colusa
 WDRs Order: R5-2013-0144

LAND APPLICATION AREA MONITORING RESULTS FOR FIELD NAME

MS5

(Submit one sheet for each field irrigated during the month)

Field Irrigation Information

Area (acres)	24.6
Number of Checks	34
Check Width (feet)	30
Check Length (feet)**	1,200
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

**Est based on Google Earth

Crop Information

Crop Name	Oats
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
Actual Harvest Date	
Expected Harvest Yield	3-3.5 tons/acre
Actual Harvest Yield	

Cattle Grazing Schedule

Number of Cattle on Field	0
Cattle Grazing Start Date	N/A
Cattle Grazing End Date	N/A
BOD Mass/Head (lb/day/head)	N/A
Nitrogen Mass/Head (lb/day/head)	N/A

Day of Month	Start Time	End Time	Precipitation (Inches)	Names of Checks Irrigated Each Day	Types of Water Applied (wastewater, cooling water, supplemental irrigation)	Estimated Flow Rate to Each Check (gpm)	Total Irrigation Hours for Each Check	Area (acres)	Total Volume of Water Applied to Each Check (inches) ¹	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day) ²
1			0.02							
2			0.02							
3			0.02							
4			0.04							
5			0.02							
6			0.02							
7			0.02							
8			0.02							
9			0.00							
10			0.44							
11			2.65							
12			0.18							
13			0.00							
14			0.01							
15			1.10							
16			0.25							
17			0.08							
18			0.00							
19			0.61							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.01							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			5.51							

¹Calculations and assumptions shall be documented on a separate piece of paper

²See MRP page 3, "Land Application Area" footnote 4 for calculation instructions. Calculations and assumptions shall be documented on a separate piece of paper.

Total Nitrogen Loading Rate for Month (lb/ac) ³	0
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³See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH December
YEAR 2014

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
FACILITY: Morning Star Tomato Packing Plant
COUNTY: Colusa
WDRs Order: R5-2013-0144

LAND APPLICATION AREA MONITORING RESULTS FOR FIELD NAME

(Submit one sheet for each field irrigated during the month)

MS6

Field Irrigation Information

Area (acres)	21.4
Number of Checks	29
Check Width (feet)	30
Check Length (feet)**	1,300
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

Crop Information

Crop Name	Oats
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
Actual Harvest Date	
Expected Harvest Yield	3-3.5 tons/acre
Actual Harvest Yield	

Cattle Grazing Schedule

Number of Cattle on Field	0
Cattle Grazing Start Date	N/A
Cattle Grazing End Date	N/A
BOD Mass/Head (lb/day/head)	N/A
Nitrogen Mass/Head (lb/day/head)	N/A

**Est based on Google Earth

Day of Month	Start Time	End Time	Precipitation (Inches)	Names of Checks Irrigated Each Day	Types of Water Applied (wastewater, cooling water, supplemental irrigation)	Estimated Flow Rate to Each Check (gpm)	Total Irrigation Hours for Each Check	Area (acres)	Total Volume of Water Applied to Each Check (inches) ¹	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day) ²
1			0.02							
2			0.02							
3			0.02							
4			0.04							
5			0.02							
6			0.02							
7			0.02							
8			0.02							
9			0.00							
10			0.44							
11			2.65							
12			0.18							
13			0.00							
14			0.01							
15			1.10							
16			0.25							
17			0.08							
18			0.00							
19			0.61							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.01							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			5.51							

¹Calculations and assumptions shall be documented on a separate piece of paper

²See MRP page 3, "Land Application Area" footnote 4 for calculation instructions. Calculations and assumptions shall be documented on a separate piece of paper.

Total Nitrogen Loading Rate for Month (lb/ac)³ 0

³See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH December
 YEAR 2014

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
 FACILITY: Morning Star Tomato Packing Plant
 COUNTY: Colusa
 WDRs Order: R5-2013-0144

LAND APPLICATION AREA MONITORING RESULTS FOR FIELD NAME

MS11

(Submit one sheet for each field irrigated during the month)

Field Irrigation Information

Area (acres)	35.6
Number of Checks	32
Check Width (feet)	30
Check Length (feet)**	1,500
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

Crop Information

Crop Name	Oats
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
Actual Harvest Date	
Expected Harvest Yield	3-3.5 tons/acre
Actual Harvest Yield	

Cattle Grazing Schedule

Number of Cattle on Field	0
Cattle Grazing Start Date	N/A
Cattle Grazing End Date	N/A
BOD Mass/Head (lb/day/head)	N/A
Nitrogen Mass/Head (lb/day/head)	N/A

**Est based on Google Earth

Day of Month	Start Time	End Time	Precipitation (Inches)	Names of Checks Irrigated Each Day	Types of Water Applied (wastewater, cooling water, supplemental irrigation)	Estimated Flow Rate to Each Check (gpm)	Total Irrigation Hours for Each Check	Area (acres)	Total Volume of Water Applied to Each Check (inches) ¹	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day) ²
1			0.02							
2			0.02							
3			0.02							
4			0.04							
5			0.02							
6			0.02							
7			0.02							
8			0.02							
9			0.00							
10			0.44							
11			2.65							
12			0.18							
13			0.00							
14			0.01							
15			1.10							
16			0.25							
17			0.08							
18			0.00							
19			0.61							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.01							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			5.51							

¹Calculations and assumptions shall be documented on a separate piece of paper

²See MRP page 3, "Land Application Area" footnote 4 for calculation instructions. Calculations and assumptions shall be documented on a separate piece of paper.

Total Nitrogen Loading Rate for Month (lb/ac)³ 0

³See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH December
YEAR 2014

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
FACILITY: Morning Star Tomato Packing Plant
COUNTY: Colusa
WDRs Order: R5-2013-0144

LAND APPLICATION AREA MONITORING RESULTS FOR FIELD NAME

MS14

(Submit one sheet for each field irrigated during the month)

Field Irrigation Information

Area (acres)	44.5
Number of Checks	54
Check Width (feet)	30
Check Length (feet)**	1,250
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

**Est based on Google Earth

Crop Information

Crop Name	Oats
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
Actual Harvest Date	
Expected Harvest Yield	2-2.5 tons/acre
Actual Harvest Yield	

Cattle Grazing Schedule

Number of Cattle on Field	0
Cattle Grazing Start Date	N/A
Cattle Grazing End Date	N/A
BOD Mass/Head (lb/day/head)	N/A
Nitrogen Mass/Head (lb/day/head)	N/A

Day of Month	Start Time	End Time	Precipitation (Inches)	Names of Checks Irrigated Each Day	Types of Water Applied (wastewater, cooling water, supplemental irrigation)	Estimated Flow Rate to Each Check (gpm)	Total Irrigation Hours for Each Check	Area (acres)	Total Volume of Water Applied to Each Check (inches) ¹	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day) ²
1			0.02							
2			0.02							
3			0.02							
4			0.04							
5			0.02							
6			0.02							
7			0.02							
8			0.02							
9			0.00							
10			0.44							
11			2.65							
12			0.18							
13			0.00							
14			0.01							
15			1.10							
16			0.25							
17			0.08							
18			0.00							
19			0.61							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.01							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			5.51							

¹Calculations and assumptions shall be documented on a separate piece of paper

²See MRP page 3, "Land Application Area" footnote 4 for calculation instructions. Calculations and assumptions shall be documented on a separate piece of paper.

Total Nitrogen Loading Rate for Month (lb/ac)³ 0

³See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH

December

 YEAR

2014

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
 FACILITY: Morning Star Tomato Packing Plant
 COUNTY: Colusa
 WDRs Order: R5-2013-0144

LAND APPLICATION AREA MONITORING RESULTS FOR FIELD NAME

MS15

(Submit one sheet for each field irrigated during the month)

Field Irrigation Information

Area (acres)	26.7
Number of Checks	40
Check Width (feet)	30
Check Length (feet)**	1,000
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

**Est based on Google Earth

Crop Information

Crop Name	Oats
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
Actual Harvest Date	
Expected Harvest Yield	3-3.5 tons/acre
Actual Harvest Yield	

Cattle Grazing Schedule

Number of Cattle on Field	0
Cattle Grazing Start Date	N/A
Cattle Grazing End Date	N/A
BOD Mass/Head (lb/day/head)	N/A
Nitrogen Mass/Head (lb/day/head)	N/A

Day of Month	Start Time	End Time	Precipitation (Inches)	Names of Checks Irrigated Each Day	Types of Water Applied (wastewater, cooling water, supplemental irrigation)	Estimated Flow Rate to Each Check (gpm)	Total Irrigation Hours for Each Check	Area (acres)	Total Volume of Water Applied to Each Check (inches) ¹	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day) ²
1			0.02							
2			0.02							
3			0.02							
4			0.04							
5			0.02							
6			0.02							
7			0.02							
8			0.02							
9			0.00							
10			0.44							
11			2.65							
12			0.18							
13			0.00							
14			0.01							
15			1.10							
16			0.25							
17			0.08							
18			0.00							
19			0.61							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.01							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			5.51							

¹Calculations and assumptions shall be documented on a separate piece of paper

²See MRP page 3, "Land Application Area" footnote 4 for calculation instructions. Calculations and assumptions shall be documented on a separate piece of paper.

Total Nitrogen Loading Rate for Month (lb/ac)³

0

³See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH

December

 YEAR

2014

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
 FACILITY: Morning Star Tomato Packing Plant
 COUNTY: Colusa
 WDRs Order: R5-2013-0144

LAND APPLICATION AREA MONITORING RESULTS FOR FIELD NAME

MS16

(Submit one sheet for each field irrigated during the month)

Field Irrigation Information

Area (acres)	36.7
Number of Checks	*42
Check Width (feet)	30
Check Length (feet)**	1,240
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

*Estimated & Calculated based on Google Earth with 30' checks

**Est based on Google Earth

Crop Information

Crop Name	Oats
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
Actual Harvest Date	
Expected Harvest Yield	3-3.5 tons/acre
Actual Harvest Yield	

Cattle Grazing Schedule

Number of Cattle on Field	0
Cattle Grazing Start Date	N/A
Cattle Grazing End Date	N/A
BOD Mass/Head (lb/day/head)	N/A
Nitrogen Mass/Head (lb/day/head)	N/A

Day of Month	Start Time	End Time	Precipitation (Inches)	Names of Checks Irrigated Each Day	Types of Water Applied (wastewater, cooling water, supplemental irrigation)	Estimated Flow Rate to Each Check (gpm)	Total Irrigation Hours for Each Check	Area (acres)	Total Volume of Water Applied to Each Check (inches) ¹	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day) ²
1			0.02							
2			0.02							
3			0.02							
4			0.04							
5			0.02							
6			0.02							
7			0.02							
8			0.02							
9			0.00							
10			0.44							
11			2.65							
12			0.18							
13			0.00							
14			0.01							
15			1.10							
16			0.25							
17			0.08							
18			0.00							
19			0.61							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.01							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			5.51							

¹Calculations and assumptions shall be documented on a separate piece of paper

²See MRP page 3, "Land Application Area" footnote 4 for calculation instructions. Calculations and assumptions shall be documented on a separate piece of paper.

Total Nitrogen Loading Rate for Month (lb/ac) ³	0
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³See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH

December

 YEAR

2014

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
 FACILITY: Morning Star Tomato Packing Plant
 COUNTY: Colusa
 WDRs Order: R5-2013-0144

LAND APPLICATION AREA MONITORING RESULTS FOR FIELD NAME

(Submit one sheet for each field irrigated during the month)

MS18a

Field Irrigation Information

Area (acres)	39.1
Number of Checks*	42
Check Width (feet)	30
Check Length (feet)**	1,300
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

Crop Information

Crop Name	Oats
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
Actual Harvest Date	
Expected Harvest Yield	3-3.5 tons/acre
Actual Harvest Yield	

Cattle Grazing Schedule

Number of Cattle on Field	0
Cattle Grazing Start Date	N/A
Cattle Grazing End Date	N/A
BOD Mass/Head (lb/day/head)	N/A
Nitrogen Mass/Head (lb/day/head)	N/A

*Estimated & Calculated based on Google Earth with 30' checks
 **Est based on Google Earth

Day of Month	Start Time	End Time	Precipitation (Inches)	Names of Checks Irrigated Each Day	Types of Water Applied (wastewater, cooling water, supplemental irrigation)	Estimated Flow Rate to Each Check (gpm)	Total Irrigation Hours for Each Check	Area (acres)	Total Volume of Water Applied to Each Check (inches) ¹	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day) ²
1			0.02							
2			0.02							
3			0.02							
4			0.04							
5			0.02							
6			0.02							
7			0.02							
8			0.02							
9			0.00							
10			0.44							
11			2.65							
12			0.18							
13			0.00							
14			0.01							
15			1.10							
16			0.25							
17			0.08							
18			0.00							
19			0.61							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.01							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			5.51							

¹Calculations and assumptions shall be documented on a separate piece of paper

²See MRP page 3, "Land Application Area" footnote 4 for calculation instructions. Calculations and assumptions shall be documented on a separate piece of paper.

Total Nitrogen Loading Rate for Month (lb/ac)³

0

³See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH

December

YEAR

2014

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
FACILITY: Morning Star Tomato Packing Plant
COUNTY: Colusa
WDRs Order: R5-2013-0144

LAND APPLICATION AREA MONITORING RESULTS FOR FIELD NAME

(Submit one sheet for each field irrigated during the month)

MS18b

Field Irrigation Information

Area (acres)	39.1
Number of Checks*	43
Check Width (feet)	30
Check Length (feet)**	1,300
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

Crop Information

Crop Name	Oats
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
Actual Harvest Date	
Expected Harvest Yield	3-3.5 tons/acre
Actual Harvest Yield	

Cattle Grazing Schedule

Number of Cattle on Field	0
Cattle Grazing Start Date	N/A
Cattle Grazing End Date	N/A
BOD Mass/Head (lb/day/head)	N/A
Nitrogen Mass/Head (lb/day/head)	N/A

*Estimated & Calculated based on Google Earth with 30' checks
 **Est based on Google Earth

Day of Month	Start Time	End Time	Precipitation (Inches)	Names of Checks Irrigated Each Day	Types of Water Applied (wastewater, cooling water, supplemental irrigation)	Estimated Flow Rate to Each Check (gpm)	Total Irrigation Hours for Each Check	Area (acres)	Total Volume of Water Applied to Each Check (inches) ¹	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day) ²
1			0.02							
2			0.02							
3			0.02							
4			0.04							
5			0.02							
6			0.02							
7			0.02							
8			0.02							
9			0.00							
10			0.44							
11			2.65							
12			0.18							
13			0.00							
14			0.01							
15			1.10							
16			0.25							
17			0.08							
18			0.00							
19			0.61							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.01							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			5.51							

¹Calculations and assumptions shall be documented on a separate piece of paper

²See MRP page 3, "Land Application Area" footnote 4 for calculation instructions. Calculations and assumptions shall be documented on a separate piece of paper.

Total Nitrogen Loading Rate for Month (lb/ac)³	0
--	---

³See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH

December

 YEAR

2014

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
FACILITY: Morning Star Tomato Packing Plant
COUNTY: Colusa
WDRs Order: R5-2013-0144

LAND APPLICATION AREA MONITORING RESULTS FOR FIELD NAME

MS20a

(Submit one sheet for each field irrigated during the month)

Field Irrigation Information

Area (acres)	32.3
Number of Checks	34
Check Width (feet)	30
Check Length (feet)**	1,250
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

**Est based on Google Earth

Crop Information

Crop Name	Oats
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
Actual Harvest Date	
Expected Harvest Yield	3-3.5 tons/acre
Actual Harvest Yield	

Cattle Grazing Schedule

Number of Cattle on Field	0
Cattle Grazing Start Date	N/A
Cattle Grazing End Date	N/A
BOD Mass/Head (lb/day/head)	N/A
Nitrogen Mass/Head (lb/day/head)	N/A

Day of Month	Start Time	End Time	Precipitation (Inches)	Names of Checks Irrigated Each Day	Types of Water Applied (wastewater, cooling water, supplemental irrigation)	Estimated Flow Rate to Each Check (gpm)	Total Irrigation Hours for Each Check	Area (acres)	Total Volume of Water Applied to Each Check (inches) ¹	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day) ²
1			0.02							
2			0.02							
3			0.02							
4			0.04							
5			0.02							
6			0.02							
7			0.02							
8			0.02							
9			0.00							
10			0.44							
11			2.65							
12			0.18							
13			0.00							
14			0.01							
15			1.10							
16			0.25							
17			0.08							
18			0.00							
19			0.61							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.01							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			5.51							

¹Calculations and assumptions shall be documented on a separate piece of paper

²See MRP page 3, "Land Application Area" footnote 4 for calculation instructions. Calculations and assumptions shall be documented on a separate piece of paper.

Total Nitrogen Loading Rate for Month (lb/ac)³	0
--	---

³See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH

December

YEAR

2014

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
FACILITY: Morning Star Tomato Packing Plant
COUNTY: Colusa
WDRs Order: R5-2013-0144

LAND APPLICATION AREA MONITORING RESULTS FOR FIELD NAME

MS20b

(Submit one sheet for each field irrigated during the month)

Field Irrigation Information

Area (acres)	32.3
Number of Checks	35
Check Width (feet)	30
Check Length (feet)**	1,250
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

**Est based on Google Earth

Crop Information

Crop Name	Oats
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
Actual Harvest Date	
Expected Harvest Yield	3-3.5 tons/acre
Actual Harvest Yield	

Cattle Grazing Schedule

Number of Cattle on Field	0
Cattle Grazing Start Date	N/A
Cattle Grazing End Date	N/A
BOD Mass/Head (lb/day/head)	N/A
Nitrogen Mass/Head (lb/day/head)	N/A

Day of Month	Start Time	End Time	Precipitation (Inches)	Names of Checks Irrigated Each Day	Types of Water Applied (wastewater, cooling water, supplemental irrigation)	Estimated Flow Rate to Each Check (gpm)	Total Irrigation Hours for Each Check	Area (acres)	Total Volume of Water Applied to Each Check (inches) ¹	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day) ²
1			0.02							
2			0.02							
3			0.02							
4			0.04							
5			0.02							
6			0.02							
7			0.02							
8			0.02							
9			0.00							
10			0.44							
11			2.65							
12			0.18							
13			0.00							
14			0.01							
15			1.10							
16			0.25							
17			0.08							
18			0.00							
19			0.61							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.01							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			5.51							

¹Calculations and assumptions shall be documented on a separate piece of paper

²See MRP page 3, "Land Application Area" footnote 4 for calculation instructions. Calculations and assumptions shall be documented on a separate piece of paper.

Total Nitrogen Loading Rate for Month (lb/ac)³	0
--	---

³See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH

December

 YEAR

2014

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
 FACILITY: Morning Star Tomato Packing Plant
 COUNTY: Colusa
 WDRs Order: R5-2013-0144

LAND APPLICATION AREA MONITORING RESULTS FOR FIELD NAME

MS21

(Submit one sheet for each field irrigated during the month)

Field Irrigation Information

Area (acres)	25.9
Number of Checks	50
Check Width (feet)	30
Check Length (feet)**	750
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

**Est based on Google Earth

Crop Information

Crop Name	Oats
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
Anticipated Planting Date	12/1/14
Actual Planting Date	12/3/14
Anticipated Harvest Date	April/May 2015
Actual Harvest Date	
Expected Harvest Yield	3-3.5 tons/acre
Actual Harvest Yield	

Cattle Grazing Schedule

Number of Cattle on Field	0
Cattle Grazing Start Date	N/A
Cattle Grazing End Date	N/A
BOD Mass/Head (lb/day/head)	N/A
Nitrogen Mass/Head (lb/day/head)	N/A

Day of Month	Start Time	End Time	Precipitation (Inches)	Names of Checks Irrigated Each Day	Types of Water Applied (wastewater, cooling water, supplemental irrigation)	Estimated Flow Rate to Each Check (gpm)	Total Irrigation Hours for Each Check	Area (acres)	Total Volume of Water Applied to Each Check (inches) ¹	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day) ²
1			0.02							
2			0.02							
3			0.02							
4			0.04							
5			0.02							
6			0.02							
7			0.02							
8			0.02							
9			0.00							
10			0.44							
11			2.65							
12			0.18							
13			0.00							
14			0.01							
15			1.10							
16			0.25							
17			0.08							
18			0.00							
19			0.61							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.01							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			5.51							

¹Calculations and assumptions shall be documented on a separate piece of paper

²See MRP page 3, "Land Application Area" footnote 4 for calculation instructions. Calculations and assumptions shall be documented on a separate piece of paper.

Total Nitrogen Loading Rate for Month (lb/ac)³	0
--	---

³See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH

December

 YEAR

2014

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
 FACILITY: Morning Star Tomato Packing Plant
 COUNTY: Colusa
 WDRs Order: R5-2013-0144

LAND APPLICATION AREA MONITORING RESULTS FOR FIELD NAME

MS24a

(Submit one sheet for each field irrigated during the month)

Field Irrigation Information

Area (acres)	39.95
Number of Checks*	44
Check Width (feet)	30
Check Length (feet)**	1,300
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

*Estimated & Calculated based on Google Earth with 30' checks
 **Est based on Google Earth

Crop Information

Crop Name	N/A
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
Anticipated Planting Date	
Actual Planting Date	
Anticipated Harvest Date	
Actual Harvest Date	
Expected Harvest Yield	
Actual Harvest Yield	

Cattle Grazing Schedule

Number of Cattle on Field	0
Cattle Grazing Start Date	N/A
Cattle Grazing End Date	N/A
BOD Mass/Head (lb/day/head)	N/A
Nitrogen Mass/Head (lb/day/head)	N/A

Day of Month	Start Time	End Time	Precipitation (Inches)	Names of Checks Irrigated Each Day	Types of Water Applied (wastewater, cooling water, supplemental irrigation)	Estimated Flow Rate to Each Check (gpm)	Total Irrigation Hours for Each Check	Area (acres)	Total Volume of Water Applied to Each Check (inches) ¹	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day) ²
1			0.02							
2			0.02							
3			0.02							
4			0.04							
5			0.02							
6			0.02							
7			0.02							
8			0.02							
9			0.00							
10			0.44							
11			2.65							
12			0.18							
13			0.00							
14			0.01							
15			1.10							
16			0.25							
17			0.08							
18			0.00							
19			0.61							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.01							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			5.51							

¹Calculations and assumptions shall be documented on a separate piece of paper

²See MRP page 3, "Land Application Area" footnote 4 for calculation instructions. Calculations and assumptions shall be documented on a separate piece of paper.

Total Nitrogen Loading Rate for Month (lb/ac)³

0

³See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH

December

 YEAR

2014

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
 FACILITY: Morning Star Tomato Packing Plant
 COUNTY: Colusa
 WDRs Order: R5-2013-0144

LAND APPLICATION AREA MONITORING RESULTS FOR FIELD NAME

MS24b

(Submit one sheet for each field irrigated during the month)

Field Irrigation Information

Area (acres)	39.95
Number of Checks*	44
Check Width (feet)	30
Check Length (feet)**	1,300
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

*Estimated & Calculated based on Google Earth with 30' checks
 **Est based on Google Earth

Crop Information

Crop Name	N/A
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
Anticipated Planting Date	
Actual Planting Date	
Anticipated Harvest Date	
Actual Harvest Date	
Expected Harvest Yield	
Actual Harvest Yield	

Cattle Grazing Schedule

Number of Cattle on Field	0
Cattle Grazing Start Date	N/A
Cattle Grazing End Date	N/A
BOD Mass/Head (lb/day/head)	N/A
Nitrogen Mass/Head (lb/day/head)	N/A

Day of Month	Start Time	End Time	Precipitation (Inches)	Names of Checks Irrigated Each Day	Types of Water Applied (wastewater, cooling water, supplemental irrigation)	Estimated Flow Rate to Each Check (gpm)	Total Irrigation Hours for Each Check	Area (acres)	Total Volume of Water Applied to Each Check (inches) ¹	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day) ²
1			0.02							
2			0.02							
3			0.02							
4			0.04							
5			0.02							
6			0.02							
7			0.02							
8			0.02							
9			0.00							
10			0.44							
11			2.65							
12			0.18							
13			0.00							
14			0.01							
15			1.10							
16			0.25							
17			0.08							
18			0.00							
19			0.61							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.01							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			5.51							

¹Calculations and assumptions shall be documented on a separate piece of paper

²See MRP page 3, "Land Application Area" footnote 4 for calculation instructions. Calculations and assumptions shall be documented on a separate piece of paper.

Total Nitrogen Loading Rate for Month (lb/ac)³

0

³See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH

December

 YEAR

2014

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
 FACILITY: Morning Star Tomato Packing Plant
 COUNTY: Colusa
 WDRs Order: R5-2013-0144

LAND APPLICATION AREA MONITORING RESULTS FOR FIELD NAME

MS24c

(Submit one sheet for each field irrigated during the month)

Field Irrigation Information

Area (acres)	39.95
Number of Checks*	44
Check Width (feet)	30
Check Length (feet)**	1,300
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

Crop Information

Crop Name	N/A
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
Anticipated Planting Date	
Actual Planting Date	
Anticipated Harvest Date	
Actual Harvest Date	
Expected Harvest Yield	
Actual Harvest Yield	

Cattle Grazing Schedule

Number of Cattle on Field	0
Cattle Grazing Start Date	N/A
Cattle Grazing End Date	N/A
BOD Mass/Head (lb/day/head)	N/A
Nitrogen Mass/Head (lb/day/head)	N/A

*Estimated & Calculated based on Google Earth with 30' checks
 **Est based on Google Earth

Day of Month	Start Time	End Time	Precipitation (Inches)	Names of Checks Irrigated Each Day	Types of Water Applied (wastewater, cooling water, supplemental irrigation)	Estimated Flow Rate to Each Check (gpm)	Total Irrigation Hours for Each Check	Area (acres)	Total Volume of Water Applied to Each Check (inches) ¹	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day) ²
1			0.02							
2			0.02							
3			0.02							
4			0.04							
5			0.02							
6			0.02							
7			0.02							
8			0.02							
9			0.00							
10			0.44							
11			2.65							
12			0.18							
13			0.00							
14			0.01							
15			1.10							
16			0.25							
17			0.08							
18			0.00							
19			0.61							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.01							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			5.51							

¹Calculations and assumptions shall be documented on a separate piece of paper

²See MRP page 3, "Land Application Area" footnote 4 for calculation instructions. Calculations and assumptions shall be documented on a separate piece of paper.

Total Nitrogen Loading Rate for Month (lb/ac)³

	0
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³See MRP footnote 5

MONTHLY MONITORING REPORT

MONTH

December

 YEAR

2014

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
 FACILITY: Morning Star Tomato Packing Plant
 COUNTY: Colusa
 WDRs Order: R5-2013-0144

LAND APPLICATION AREA MONITORING RESULTS FOR FIELD NAME

MS24d

(Submit one sheet for each field irrigated during the month)

Field Irrigation Information

Area (acres)	39.95
Number of Checks*	44
Check Width (feet)	30
Check Length (feet)**	1,300
Irrigation Application Days	N/A
Irrigation Resting Days	N/A
Irrigation Cycle Days	N/A

Crop Information

Crop Name	N/A
Crop ET (Inches)	
Total Nitrogen Demand (lb/ac)	
Anticipated Planting Date	
Actual Planting Date	
Anticipated Harvest Date	
Actual Harvest Date	
Expected Harvest Yield	
Actual Harvest Yield	

Cattle Grazing Schedule

Number of Cattle on Field	0
Cattle Grazing Start Date	N/A
Cattle Grazing End Date	N/A
BOD Mass/Head (lb/day/head)	N/A
Nitrogen Mass/Head (lb/day/head)	N/A

*Estimated & Calculated based on Google Earth with 30' checks
 **Est based on Google Earth

Day of Month	Start Time	End Time	Precipitation (Inches)	Names of Checks Irrigated Each Day	Types of Water Applied (wastewater, cooling water, supplemental irrigation)	Estimated Flow Rate to Each Check (gpm)	Total Irrigation Hours for Each Check	Area (acres)	Total Volume of Water Applied to Each Check (inches) ¹	BOD Loading Rate as an Irrigation Cycle Average (lb/ac/day) ²
1			0.02							
2			0.02							
3			0.02							
4			0.04							
5			0.02							
6			0.02							
7			0.02							
8			0.02							
9			0.00							
10			0.44							
11			2.65							
12			0.18							
13			0.00							
14			0.01							
15			1.10							
16			0.25							
17			0.08							
18			0.00							
19			0.61							
20			0.00							
21			0.00							
22			0.00							
23			0.00							
24			0.01							
25			0.00							
26			0.00							
27			0.00							
28			0.00							
29			0.00							
30			0.00							
31			0.00							
Total			5.51							

¹Calculations and assumptions shall be documented on a separate piece of paper

²See MRP page 3, "Land Application Area" footnote 4 for calculation instructions. Calculations and assumptions shall be documented on a separate piece of paper.

Total Nitrogen Loading Rate for Month (lb/ac)³

0

³See MRP footnote 5

MONTHLY MONITORING REPORT

DISCHARGER: Moring Star Packing Company, LP and Fred Gobel
 FACILITY: Morning Star Tomato Packing Plant
 COUNTY: Colusa
 WDRs Order R5-2013-0144

MONTH

December

 YEAR

2014

LAND APPLICATION AREA MONITORING TOTAL NITROGEN LOADING RESULTS

LAA Field	Gebel	MS 1	MS 2	MS 3	MS 5	MS 6	MS 11	MS 14	MS 15	MS 16	MS 18a	MS 18b	MS 20a	MS 20b	MS 21	MS 24a	MS 24b	MS 24c	MS 24d
Acres of LAA Irrigated																			
Total Nitrogen Loading from Wastewater (lbs/ac)			82	80	173	142	236	98	164	126	161	79	67	55	192	80	89	80	91
Total Nitrogen Loading Rate from Settling Pond Solids (lbs/ac/month)					123	123			123	123					123				
Total Nitrogen Loading Rate from Cooling Pond Solids (lbs/ac/month)																			
Total Nitrogen Loading Rate from Residual Solids (lbs/ac/month)																			
Total Nitrogen Loading Rate from Cattle/ Manure (lbs/ac/month)																			
Total Nitrogen Loading Rate from Commercial Fertilizers (lbs/ac/month)			56	14	0	63	14	63	0	0	82	82	119	119	0	82	82	82	82
Cumulative Annual Total Nitrogen Value (lbs/ac/year)			138	94	296	328	250	161	287	249	243	161	186	174	315	162	171	162	173
Annual Crop Demand (lbs/ac/year)																			

Attachment F

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
FACILITY: Morning Star Tomato Packing Plant
COUNTY: Colusa
WDRs Order: R5-2013-0144

MONTHLY MONITORING REPORT : Facility Not Processing, Land Application Monitoring N/A

MONTH	December
YEAR	2014

LAND APPLICATION AREA WASTEWATER INSPECTION MONITORING

Field No.		Technician	
Date		Weather	

1. Any evidence of erosion: yes/no _____
2. Berm Condition: _____
3. Standpipe and flow control valve condition _____
4. Are the valves being used properly: yes/no _____
5. Is there any soil saturation: yes/no _____
6. Is there any ponding: yes/no _____
7. Is there any potential runoff to offsite areas: yes/no _____
8. Is there any potential and actual discharge to surface water: yes/no _____
9. Are there any accumulation of organic solids at soil surface: yes/no _____
10. Is there any soil clogging: yes/no _____
11. Are there any odors that have the potential to be objectionable at or beyond the property boundary: yes/no _____
12. Are there any insects: yes/no _____
13. Temperature and wind direction/strength _____
14. Other observations _____

At least once per week when wastewater is being applied to the land application areas, the application areas in use shall be inspected to identify any equipment malfunction or other circumstance that might allow wastewater or irrigation runoff to leave each LAA and/or create conditions that violate the Waste Discharge Requirements. A log of these inspections shall be kept at the facility and summarized for submittal with the monthly monitoring reports.

In accordance with Section A.5 of the Monitoring Report, please attach a current site plan depicting the irrigation checks within each LAA field that will be used during the calendar year, including all water conveyance ditches and internal berms that divide each LAA (where applicable).

Attachment G

DISCHARGER: Morning Star Packing Company, LP and Fred Gobel
FACILITY: Morning Star Tomato Packing Plant
COUNTY: Colusa
WDRs Order R5-2013-0144

MONTHLY MONITORING REPORT

MONTH	December
YEAR	2014

RESIDUAL SOLIDS MONITORING : Facility Not Processing, Solids Monitoring N/A

Date	Type of Solids Generated	Volume of Solids Generated (tons) ¹	Volume of Solids Disposed of Offsite (tons)	Offsite Solids Disposal Location ²	Volume of Solids Disposed of Onsite (tons)	Onsite Solids Disposal Location ³
November	Pomace, Wet Waste					

¹Volume of Solids Generated. Solids may include pomace, seeds, stems, diatomaceous earth, screenings, pond solids, and sump solids, or other material.

²Volume Disposed of Off-site. Describe the disposal method (e.g. animal feed, land application, off-site composting, landfill, etc.) and the name of the hauling company.

³Volume Disposed of On-site; location of on-site disposal (e.g. land application area field); method of application, spreading, and incorporation; application rate (tons/acre), and results from weekly grab sample analysis for total nitrogen.

Attachment H

DISCHARGE Morning Star Packing Company, LP and Fred Gobel
 FACILITY: Morning Star Tomato Packing Plant
 COUNTY: Colusa
 WDRs Order R5-2013-0144

MONTHLY MONITORING REPORT

MONTH	December
YEAR	2014

FIELD INSTRUMENT CALIBRATION LOG

Monitoring Week	Date	Time	Lower Standard pH Buffer	Lower Standard Stabilized pH	Lower pH Standard Calibrated pH	Upper Standard pH Buffer	Upper Standard Stabilized pH	Upper Standard Calibrated pH	DO Initial Reading	Electrolyte Solution Added	DO Reading after Calibration	Technician's Initials
Week 1												
Week 2												
Week 3												
Week 4												
Week 5	12/30/14	8:00 AM	4.0	3.98	NA	10.0	9.9	NA	6.9	NA	NA	J.I.

If either calibrated pH value is more than 0.2 higher or lower than its corresponding pH buffer value, recalibrate the meter before using it in the field.



INSTRUMENT CALIBRATION REPORT

Aqua Sierra Controls, Inc.
 1650 Industrial Drive
 Auburn, CA 95603
 Phone (800) 649-4287
 Fax (530) 823-3475
 service@aquasierra.com
 www.aquasierra.com

Attn: JAMES BRISCO
 MORNING STAR PACKING COMPANY
 2211 OLD HIGHWAY 99
 WILLIAMS, CA 95987

Instrument ID 01
 Description FLOW METER

Serial Number A1J001295
 Model Number U SONIC R

Calibrated 5/30/2014
 Scheduled 5/30/2015
 Calibration ID 21526
 Certificate # 01
 Equipment ID

Department
 Manufacturer DREXEL BROOK
 Calibration Type INITIAL
 Location SETTLING POND
 Building OUTSIDE

Calibration Specifications

Stated Accy		Pct of Reading					
<u>In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Error %</u>	<u>Lft As</u>	<u>Error %</u>
0.00	FEET H2O	0.00	GPM	0.00	0.00%	0.00	0.00%
0.20	FEET H2O	334.20	GPM	330.00	-1.26%	330.00	-1.26%
0.54	FEET H2O	1483.00	GPM	1,483.00	0.00%	1,483.00	0.00%
0.71	FEET H2O	2235.00	GPM	2,275.00	1.79%	2,275.00	1.79%
0.87	FEET H2O	3032.00	GPM	3,068.00	1.19%	3,068.00	1.19%

Test Instruments Used During the Calibration

<u>Test Instrument ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number</u>
101	ULTRASONIC TEST STAND	ASC	1076-10	ASC-04-KEN

Notes about this calibration

2.5' RECTANGULAR WEIR
 ZERO DISTANCE = 2.74'
 VERIFIED LEVEL READING AT WEIR

Calibration Result Calibration Successful
 Who Calibrated KEN LANE



INSTRUMENT CALIBRATION REPORT

Aqua Sierra Controls, Inc.
 1650 Industrial Drive
 Auburn, CA 95603
 Phone (800) 649-4287
 Fax (530) 823-3475
 service@aquasierra.com
 www.aquasierra.com

Attn: JAMES BRISCO
 MORNING STAR PACKING COMPANY
 2211 OLD HIGHWAY 99
 WILLIAMS, CA 95987

Instrument ID 02
 Description FLOW METER

Serial Number A1J000210
 Model Number U SONIC R

Calibrated 5/30/2014
 Scheduled 5/30/2015
 Calibration ID 21527
 Certificate # 02
 Equipment ID

Department
 Manufacturer DREXEL BROOK
 Calibration Type INITIAL
 Location COOLING POND
 Building OUTSIDE

Calibration Specifications

Stated Accy		Pct of Reading					
<u>In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Error %</u>	<u>Lft As</u>	<u>Error %</u>
0.00	FEET H2O	0.00	GPM	0.00	0.00%	0.00	0.00%
0.22	FEET H2O	301.70	GPM	299.00	-0.89%	299.00	-0.89%
0.41	FEET H2O	752.80	GPM	749.00	-0.50%	749.00	-0.50%
0.55	FEET H2O	1153.00	GPM	1,174.00	1.82%	1,174.00	1.82%
0.67	FEET H2O	1530.00	GPM	1,542.00	0.78%	1,542.00	0.78%

Test Instruments Used During the Calibration

<u>Test Instrument ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number</u>
101	ULTRASONIC TEST STAND	ASC	1076-10	ASC-04-KEN

Notes about this calibration

2' RECTANGULAR WEIR WITH END CONTRACTIONS
 ZERO DISTANCE = 32.6" OR 2.72'
 CHANNEL #2

Calibration Result Calibration Successful
 Who Calibrated KEN LANE



INSTRUMENT CALIBRATION REPORT

Aqua Sierra Controls, Inc.
 1650 Industrial Drive
 Auburn, CA 95603
 Phone (800) 649-4287
 Fax (530) 823-3475
 service@aquasierra.com
 www.aquasierra.com

Attn: JAMES BRISCO
 MORNING STAR PACKING COMPANY
 2211 OLD HIGHWAY 99
 WILLIAMS, CA 95987

Instrument ID 03
 Description FLOW METER

Serial Number A1J000210
 Model Number U SONIC R

Calibrated 5/30/2014
 Scheduled 5/30/2015
 Calibration ID 21524
 Certificate # 03
 Equipment ID

Department
 Manufacturer DREXEL BROOK
 Calibration Type INITIAL
 Location MAIN DITCH
 Building OUTSIDE

Calibration Specifications

Stated Accy Per of Reading

In Val	In Type	Out Val	Out Type	Fnd As	Error %	Lft As	Error %
0.00	FEET H2O	0.00	GPM	0.00	0.00%	0.00	0.00%
0.20	FEET H2O	334.20	GPM	340.00	1.74%	340.00	1.74%
0.54	FEET H2O	1483.00	GPM	1,476.00	-0.47%	1,476.00	-0.47%
0.71	FEET H2O	2235.00	GPM	2,228.00	-0.31%	2,228.00	-0.31%
0.87	FEET H2O	3032.00	GPM	3,048.00	0.53%	3,048.00	0.53%

Test Instruments Used During the Calibration

Test Instrument ID	Description	Manufacturer	Model Number	Serial Number
101	ULTRASONIC TEST STAND	ASC	1076-10	ASC-04-KEN

Notes about this calibration

2.5' RECTANGULAR WEIR
 CHANNEL #1
 ZERO DISTANCE MEASURED AT 3.13'
 VERIFIED LEVEL READING AT WEIR

Calibration Result Calibration Successful

Who Calibrated KEN LANE 