

GLENN COUNTY

Planning & Community Development Services Agency

225 North Tehama Street
Willows, CA 95988
530.934.6540
www.countyofglenn.net



Donald Rust, Director

REQUEST FOR REVIEW

COUNTY DEPARTMENTS/DISTRICTS

- ☒ Glenn County Agricultural Commissioner
- ☒ Glenn County Air Pollution Control District/CUPA
- ☒ Glenn County Assessor
- ☒ Glenn County Building Inspector
- ☒ Glenn County Engineering & Surveying Division
- ☒ Glenn County Environmental Health Department
- ☒ Glenn County Sheriff's Department
- ☐ Glenn County Board of Supervisors
- ☐ Glenn County Counsel
- ☐ Glenn County Planning Commission
- ☐ Glenn LAFCO

FEDERAL AGENCIES

- ☐ U.S. Army Corps of Engineers
- ☐ U.S. Fish and Wildlife Service
- ☐ U.S. Department of Agriculture
- ☐ U.S. Bureau of Reclamation - Willows

STATE AGENCIES

- ☐ Central Valley Flood Protection Board
- ☒ Central Valley Regional Water Quality Control Board (RWQCB)
- ☒ State Water Resources Control Board – Division of Drinking Water
- ☐ Department of Alcoholic Beverage Control (ABC)
- ☐ Department of Conservation, Division of Land Resource Protection
- ☐ Department of Conservation, Office of Mine Reclamation (OMR)
- ☐ Department of Conservation, Division of Oil, Gas, and Geothermal Resources
- ☒ Department of Fish and Wildlife
- ☒ Department of Food and Agriculture
- ☐ Department of Forestry and Fire Protection (Cal Fire)
- ☐ Department of Housing and Community Development (HCD)
- ☐ Department of Public Health
- ☐ Department of Toxic Substances Control (DTSC)
- ☐ Department of Transportation (Caltrans)
- ☒ Department of Water Resources (DWR)
- ☐ Office of the State Fire Marshall
- ☐ CalRecycle

OTHER

- ☐ Cemetery and Funeral Bureau
- ☐ California Water Service Co. (Chico)
- ☐ Sacramento River National Wildlife Refuge
- ☐ City of Willows
- ☐ Comcast Cable (Chico Office)
- ☐ Community Services District:
- ☒ Pacific Gas and Electric Company (PG&E)
- ☒ Fire Protection District: Artois
- ☐ Glenn County Resource Conservation District
- ☒ School District: Orland
- ☐ Northeast Center of the California Historical Resources Information System
- ☒ Grindstone Rancheria of Wintun-Wailaki
- ☒ Paskenta Band of Nomlaki Indians
- ☒ Mechoopda Indian Tribe of Chico Rancheria
- ☒ Middletown Rancheria of Pomo Indians California
- ☒ Railroad: Southern Pacific
- ☒ Orland-Artois Water District
- ☐ Sacramento-San Joaquin Draining District:
- ☐ Special District:
- ☐ Princeton-Codora-Glenn Irrigation District

DATE: April 9, 2020

PROJECT: Conditional Use Permit 2020-002
Mission Livestock Feedlot

PLANNER: Greg Conant, Assistant Planner; gconant@countyofglenn.net

APPLICANT: Douglas Freitas dba Mission Livestock
P.O. Box 933
Dixon, CA 95620

LANDOWNER: Paul Violich Rev Trust/ Violich Farms Inc.
P.O. Box 875
Kentfield, CA 94914

ENGINEER: VESTRA Resources Inc. Attn: Wendy Johnston
5300 Aviation Drive
Redding, CA 96002

PROPOSAL: Conditional Use Permit 2020-002
Mission Livestock Feedlot

Mission Livestock has applied for a Conditional Use Permit to establish a feedlot on the existing Greenwood Dairy site (APN: 024-100-017). The Greenwood Dairy was established in 2000; in December 2007 Conditional Use Permit 2007-002 was approved for the expansion of the Greenwood Dairy. In March 2009 a Minor Amendment for revisions of the site plans were approved. Conditional Use Permit 2007-002 approved a herd of 4,100 dairy cattle (Holstein); which equates to 5,567 Animal Units (AU).

Conditional Use Permit 2020-002 proposes a feedlot with a beef cattle capacity of approximately 7,100, (4,260 Animal Unit) with a maximum capacity of 9,000 cattle. Cattle will arrive at the site at an average weight of 350 pounds and leave at a weight of approximately 950 pounds. Individual cattle will be onsite for approximately 150 days. The facility is proposed to operate seven days a week from 6:00 a.m. to 5:00 p.m. No new structures are being proposed.

Additional project information/documentation has been included. Please refer to the attached application and plot plan.

LOCATION: The project site is 6569 County Road 27, approximately 4-miles south of Orland; located on the south side of County Road 27, west of County Road M, north of County Road 30 and east of County Road 99W, within the unincorporated area of Glenn County, California.

ZONING: “AE-40” Exclusive Agriculture Zone (36-acre minimum parcel size)

GENERAL PLAN: “Intensive Agriculture”

APN: 024-100-017 273.07± acres)

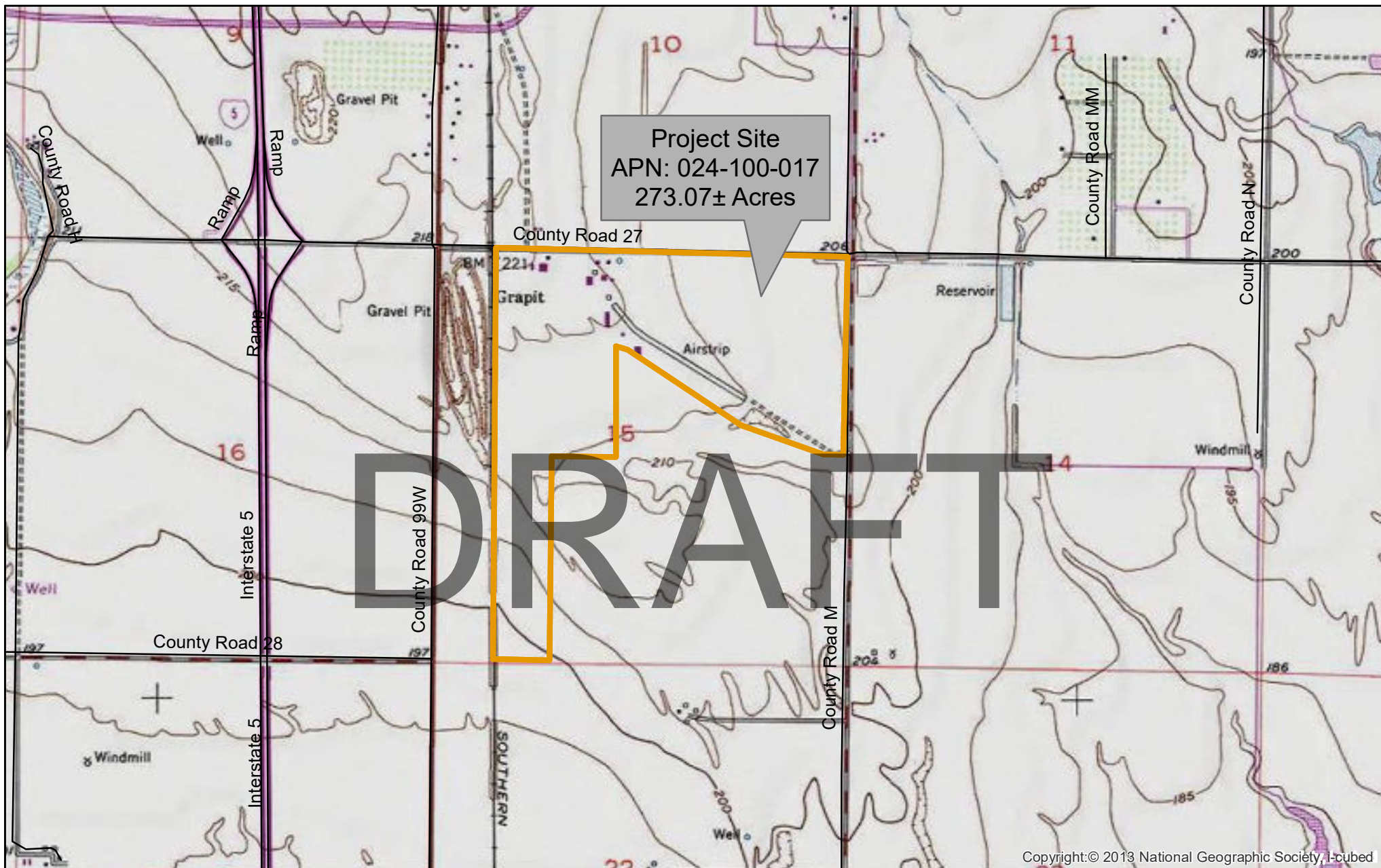
FLOOD ZONES: Flood Zone “X” according to Flood Insurance Rate Map (FIRM) No. 06007C0400D, dated August 5, 2010 issued by the Federal Emergency Management Agency (FEMA). Flood Zone “X” (unshaded) consists of areas of minimal risk outside the 1-percent and 0.2-percent annual chance floodplains. No base flood elevations or base flood depths are shown within this zone.

The Glenn County Planning Division is requesting comments on this proposal for determination of completeness, potential constraints, and/or proposed conditions of approval. If comments are not received by **Friday, May 1, 2020**, it is assumed that there are no specific comments to be included in the analysis of the project. Comments submitted by e-mail are acceptable. Thank you for considering this matter.

AGENCY COMMENTS:

Please consider the following:

1. Is the information in the application complete enough to analyze impacts and conclude review?
2. Comments may include project-specific code requirements unique to the project. Cite code section and document (i.e. General Plan, Subdivision Map Act, etc.).
3. What are the recommended Conditions of Approval for this project and justification for each Condition? When should each Condition be accomplished (i.e. prior to any construction at the site, prior to recording the parcel map, filing the Final Map, or issuance of a Certificate of Occupancy, etc.)?
4. Are there significant environmental impacts? What mitigation(s) would bring the impacts to a less than significant level? When should mitigation(s) be accomplished (i.e. prior to recording parcel map, filing Final Map, or Certificate of Occupancy, etc.)?



Project: CUP 2020-002

USGS 7.5 Minute Quadrangle Map
Portion of Section 15, T21N, R3W,
Orland



Project Site

0 0.25 0.5 1 Miles



Glenn County Planning and Community
Development Services Agency 2020



April 1, 2020

GIS, Environmental, & Engineering Services

72007

Andy Popper, Senior Planner
Glenn County Planning & Community Development
225 North Tehama Street
Willows, CA 95988

Via Email & U.S. Mail
APopper&countyofglenn.net

**RE: Use Permit Application
Proposed Mission Livestock Feedlot
Orland, California**

Dear Mr. Popper:

Attached please find a use permit application for the proposed Mission Livestock feedlot to be located on the site of the former Greenwood Dairy.

In addition to the County permit, the facility will operate under RWQCB Order R5-2017-0058 *Waste Discharge Requirements, General Order for Confined Bovine Feeding Operations*. A copy of the Notice of Intent for coverage under this Order and the required Waste Management Plan for the permit are attached.

In summary, the project includes the conversion of the dairy property proper (not including agricultural land) to a beef cattle feedlot. The feedlot would hold between 7,000 and 9,000 beef cattle. The previous CEQA document and County use permit approved a total of 5,567 Animal Units (AU) or 4,100 head of Holstein dairy cattle. The AU conversion of beef cattle at the facility will be 0.60 AU versus the 1.4 AU for the dairy breed. Cattle will arrive at the site at an average weight of 350 pounds and leave at a weight of approximately 950 pounds. Individual cattle will be onsite for approximately 150 days.

Manure will be vacuumed or scraped from areas. Manure will continue to be composted onsite. The manure will be combined with almond processing waste from the adjoining orchards, composted onsite, and returned to the adjacent orchards. Water from the ponds may be used to provide moisture to the compost. The composting operation meets the definition of "agricultural composting" under the current Order WQ 2015-0121-DWQ *General Waste Discharge Requirements for Composting Operations* and would be exempt from the requirements of the Order. If required to do so, the facility will limit the production of compost to no more than 25,000 cubic yards processed onsite at any given time to meet the requirements of the pending amendment to the Order dated October 31, 2019 (not yet adopted).

No wastewater will be generated onsite. All stormwater contacting cattle containment areas will be retained in the onsite ponds. A water balance showing adequate capacity to meet the requirements of Order R5-2017-0058 is included in the attached Waste Management Plan, which has been submitted to the RWQCB for approval.

The proposed facility will be located 4 miles south of Orland in Glenn County at 6569 County Road 27, Section 15, Township 21 North, Range 3 West, MDBM. Based on U.S. Geological Survey (USGS) Orland 7.5-minute Quadrangle, the site coordinates are Latitude: 39.6740N, Longitude: 122.1900W. County Road 27 borders the property to the north, Southern Pacific Railroad line and private parcels border the property to the west, and the Fulton Reclamation and Recycling borders the property to the south. Irrigated croplands border the property to the northeast. The previous land application areas (cropland) have been converted to almonds. No land application of wastewater will occur. The onsite wastewater ponds will be used to collect and retain onsite stormwater from areas that contact manure. Roof runoff and other "non-contact" water is directed to a separate stormwater detention pond. The property being leased by Mission Livestock is zoned *Intensive Agriculture, 40-acre minimum*.

Following your initial review, VESTRA can provide a detailed project description and initial study to assist in CEQA review. The preliminary title report and parcel data are included in Attachment C. The 25 copies of the proposed Site Plan are included herein.

Please call me with questions regarding this submittal at (530) 223-2585.

Sincerely,

VESTRA Resources, Inc.

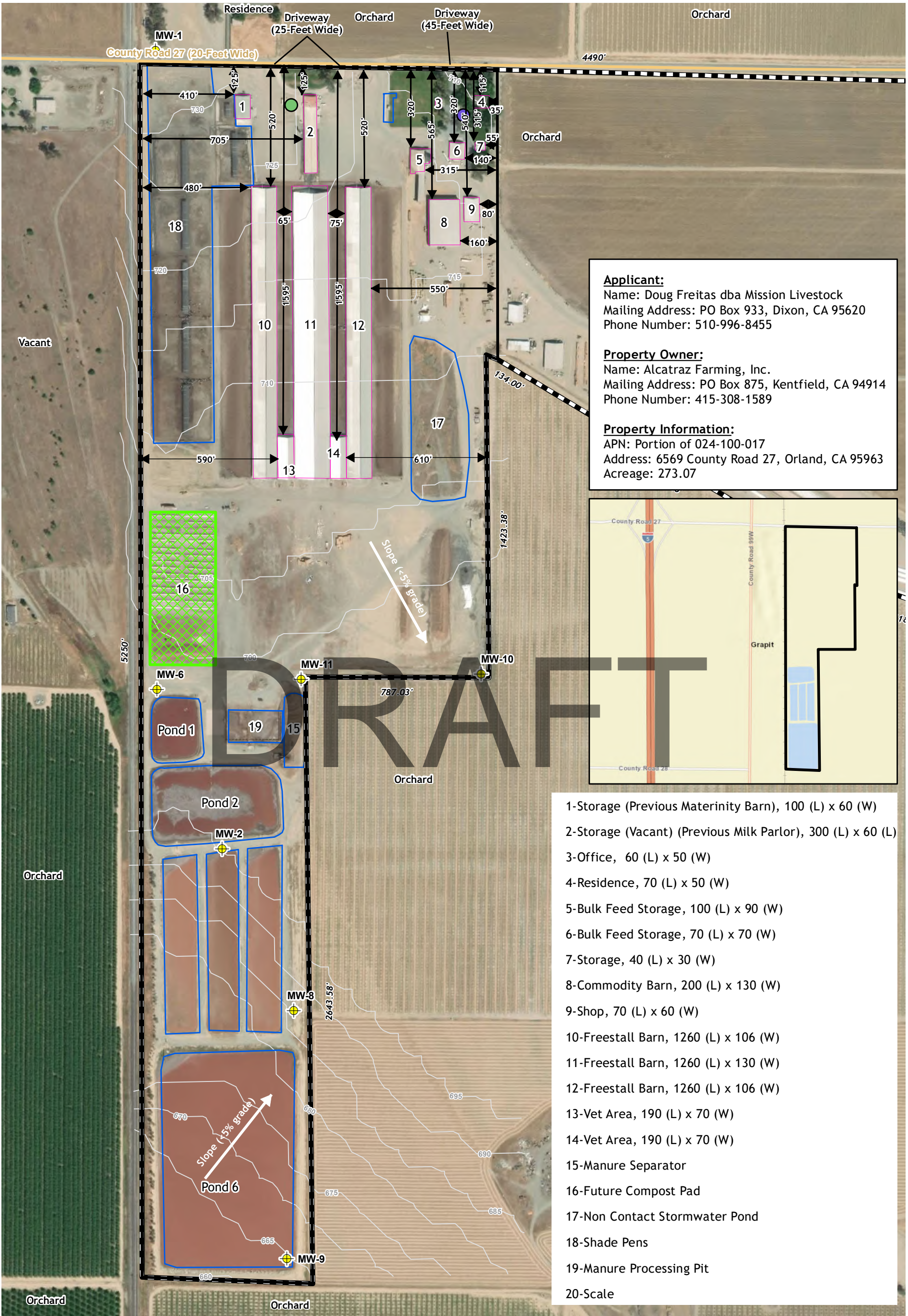


Wendy Johnston
Project Manager

Attachments

CC: Doug Freitas/ Mission Livestock
Julia Violich/Violich Farms
Andy Popper/Glenn County Planning Department

DRAFT



Applicant:

Name: Doug Freitas dba Mission Livestock
Mailing Address: PO Box 933, Dixon, CA 95620
Phone Number: 510-996-8455

Property Owner:

Name: Alcatraz Farming, Inc.
Mailing Address: PO Box 875, Kentfield, CA 94914
Phone Number: 415-308-1589

Property Information:

APN: Portion of 024-100-017
Address: 6569 County Road 27, Orland, CA 95963
Acreage: 273.07

- 1-Storage (Previous Maternity Barn), 100 (L) x 60 (W)
- 2-Storage (Vacant) (Previous Milk Parlor), 300 (L) x 60 (L)
- 3-Office, 60 (L) x 50 (W)
- 4-Residence, 70 (L) x 50 (W)
- 5-Bulk Feed Storage, 100 (L) x 90 (W)
- 6-Bulk Feed Storage, 70 (L) x 70 (W)
- 7-Storage, 40 (L) x 30 (W)
- 8-Commodity Barn, 200 (L) x 130 (W)
- 9-Shop, 70 (L) x 60 (W)
- 10-Freestall Barn, 1260 (L) x 106 (W)
- 11-Freestall Barn, 1260 (L) x 130 (W)
- 12-Freestall Barn, 1260 (L) x 106 (W)
- 13-Vet Area, 190 (L) x 70 (W)
- 14-Vet Area, 190 (L) x 70 (W)
- 15-Manure Separator
- 16-Future Compost Pad
- 17-Non Contact Stormwater Pond
- 18-Shade Pens
- 19-Manure Processing Pit
- 20-Scale

- Monitoring Well
- Barn Well
- Domestic Well
- Future Paved Compost Area
- Current Lease Boundary
- Approximate Parcel Boundary
- Buildings
- Property Features



SOURCE: DIGITALGLOBE 2018 AERIAL PHOTOGRAPH

P:\GIS\72007 Mission Livestock\Figures\72007_SitePlan.mxd

0 200 400 800 Feet
1 inch = 400 feet

Prepared by: Jennifer Williams, VESTRA Resources, Inc.
Address: 5300 Aviation Drive, Redding, CA 96002
Phone Number: (530) 223-2585
Date of Preparation: February 28, 2020

SITE PLAN
MISSION LIVESTOCK
GLENN COUNTY, CALIFORNIA

DRAFT

CUP_____

GLENN COUNTY
PLANNING AND PUBLIC WORKS AGENCY
777 North Colusa Street
WILLOWS, CA 95988
(530) 934-6540
FAX (530) 934-6533
www.countyofglenn.net

APPLICATION FOR CONDITIONAL USE PERMIT

NOTE:FAILURE TO ANSWER APPLICABLE QUESTIONS AND REQUIRED ATTACHMENTS COULD DELAY THE PROCESSING OF YOUR APPLICATION.

1. Applicant(s):

Name: Douglas Freitas dba Mission Livestock

Address: 6569 County Road 27,Orland, CA 95963

Mailing Address: P.O. Box 933,Dixon, CA 95620

Phone:(Business) (510) 996-8455 (Home)_____

Fax: (707) 402-6330 E-mail: freitas.douglas.p@gmail.com

2. Property Owner(s):

Name: Paul Violich Rev Trust/ Violich Farms Inc.

Address: P.O. Box 875, Kentfield, CA 94914

Phone:(Business) (415)308-1589 (Home)_____

Fax:_____ E-mail: jviolich@capayfarms.com

3. Engineer/Person who Prepared Site Plan (if applicable):

Name: VESTRA Resources Inc. Attn: Wendy Johnston

Mailing Address: 5300 Aviation Drive, Redding, CA 96002

Phone:(Business) (530)223-2585 (Home)_____

Fax: (530)223-1145 E-mail: wjohnston@vestra.com

Glenn County Planning & Public Works Agency
Conditional Use Permit

4. Name and address of property owner's duly authorized agent (if applicable) who is to be furnished with notice of hearing (Section 65091 California Government Code).

Name: Julia Violich jviolich@capayfarms.com (415)308-1589

Mailing Address: P.O. Box 875, Kentfield, CA 94904

5. Request or Proposal: Mission Livestock proposes to convert the Greenwood Dairy to a feedlot. Cattle conversion will commence in April and be completed by July 1, 2020.

6. Address and Location of Project: 6569 County Road 27, Orland, CA 95963

7. Current Assessor's Parcel Number(s): 024-100-017-0

8. Existing Zoning: Intensive Ag/ 40-acre minimum

9. Existing Use of Property: Existing use is Greenwood Dairy, which is closing as of June 2020.

10. Provide any additional information that may be helpful in evaluating this request: This location has been a dairy since 2000 and the nature of the facility will will continue to house bovine species for feedlot purposes. The feedlot will house beef cattle weighing between 350-500 pounds upon arrival and 950 pounds on departure.

The proposed feedlot is consistent with the Intensive Ag zoning for this area of Glenn County.

Glenn County Planning & Public Works Agency
Conditional Use Permit

DECLARATION UNDER PENALTY OF PERJURY

(Must be signed by Applicant(s) and Property Owner(s))
(Additional sheets may be necessary)

The Applicant(s) and/or Property Owner(s), by signing this application, shall be deemed to have agreed to defend, indemnify, release and hold harmless the County, its agents, officers, attorneys, employees, boards and commissions from any claim, action or proceeding brought against the foregoing individuals or entities, the purpose of which is to attack, set aside, void or null the approval of this development entitlement or approval or certification of the environmental document which accompanies it, or to obtain damages relating to such action(s). This indemnification agreement shall include, but not be limited to, damages, costs expenses, attorney fees or expert witness fees that may be asserted by any person or entity, including the applicant, arising out of or in connection with the approval of the entitlement whether or not there is concurrent passive or active negligence on the part of the County.

Applicant(s):

Signed:  DocuSigned by:
543DE24DA83D436...
Print: Douglas Freitas
Date: 3/17/2020
Address: P.O. Box 933 Dixon, CA 95620

I am (We are) the owner(s) of property involved in this application and I (We) have completed this application and all other documents required.

I am (We are) the owner(s) of the property involved in this application and I (We) acknowledge the preparation and submission of this application.

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

Property Owner(s):

Signed:  DocuSigned by:
5C09939D960F4FC...
Print: Paul Violich Rev Trust/ Violich Farms Inc.
Date: 3/17/2020
Address: P.O. Box 875 Kentfield, CA 94914

Case _____

GLENN COUNTY
PLANNING AND PUBLIC WORKS AGENCY
777 North Colusa Street
WILLOWS, CA 95988
(530) 934-6540
FAX (530) 934-6533
www.countyofglenn.net

ENVIRONMENTAL INFORMATION FORM

To be completed by applicant or engineer

Use extra sheets if necessary

This list is intended to meet the requirements of State of California Government Code Section 65940.

I. GENERAL INFORMATION:

1. Name: Doug Freitas dba Mission Livestock
Address, City, State, Zip: 6569 County Road 27 Orland, CA 95963
Mailing address: P.O. Box 933 Dixon, CA 95620
Telephone: (510) 996-8455 Fax: (707) 402-6330
E-mail: freitas.douglas.p@gmail.com
2. Name: _____
Address, City, State, Zip: _____
Telephone: _____ Fax: _____
E-mail: _____
3. Address and Location of Project: 6569 County Road 27, Orland, CA 95963
Section 15, Township 21 North, Range 3 West, M.D.B.M.
4. Current Assessor's Parcel Number(s): 024-100-017-0
5. Existing Zoning: Intensive Agriculture
6. Existing Use: Dairy
7. Proposed Use of Site (project for which this form is prepared): Feedlot
Mission Livestock
8. Indicate the type of permit(s) application(s) to which this form pertains: Conditional Use Permit for Confined Bovine Feeding Operation (Feedlot)
Order R5-2017-0058 Waste Discharge Requirements General Order

9. If the project involves a variance, conditional use permit, or rezoning application, state this and indicate clearly why the application is required:

Conditional Use Permit- Confined Bovine Feeding Operation (Feedlot)

10. List and describe any other related permit(s) and other public approvals required for this project, including those required by city, regional, state, and federal agencies: Use Permit, CEQA, Order R5-2017-0058 WDR General Order for Confined Bovine Feeding Operations (Feedlot)

11. Have any special studies been prepared for the project site that are related to the proposed project including, but not limited to traffic, biology, wetlands delineation, archaeology, etc? No new studies

II. ENVIRONMENTAL SETTING:

1. Describe in detail the project site as it exists before the project, including information on topography, soil stability, plants and animals (wetlands, if any), different crops, irrigation systems, streams, creeks, rivers, canals, water table depth, and any cultural historical or scenic aspects. Describe any existing structures on the site, and the use of the structures. Attach photographs of the site. Snapshots or Polaroid photos will be accepted.

The project site is currently Greenwood Dairy which is closing in June 2020.

Mission Livestock will be operating only the dairy portion of the facility as a feedlot starting in July 2020. See figures, attached report, and Waste Management Plan in Appendix A for specific details regarding the site.

2. Describe the surrounding properties, including information on plants, animals, and any cultural, historical or scenic aspects. Indicate the type of land use (residential, commercial, agricultural, etc.), intensity of land use (one-family, apartment houses, shops, department stores, dairy, row crops, orchards, etc.) Attach photographs of the vicinity. Snapshots or Polaroid photos will be accepted.

North: Intensive Agriculture/ 20-acre minimum

East: Intensive Agriculture/ 40-acre minimum

South: Intensive Agriculture/ 40-acre minimum

West: Exclusive Agriculture/ 80-acre minimum, Industrial, and Service Commercial

3. Describe noise characteristics of the surrounding area (include significant noise sources): Southern Pacific Railroad line borders the property to the west and Fulton Reclamation and Recycling facility borders the property to the south.

III. SPECIFIC ITEMS OF IMPACT:**1. Drainage:**

Describe how increased runoff will be handled (on-site and off-site):_____

All drainage is directed towards five ponds with one overflow pond. Non-contact
water (roof runoff) is directed to a retention basin.

Will the project change any drainage patterns? (Please explain):_____

No

Will the project require the installation or replacement of storm drains or channels? If yes, indicate length, size, and capacity:_____

Storm drains are already in place.

Are there any gullies or areas of soil erosion? (Please explain):_____

No

Do you plan to grade, disturb, or in any way change swales, drainages, ditches, gullies, ponds, low lying areas, seeps, springs, streams, creeks, river banks, or other area on the site that carries or holds water for any amount of time during the year? No

If yes, you may be required to obtain authorization from other agencies such as the Army Corps of Engineers or California Department of Fish and Game.

2. Water Supply:

Indicate and describe source of water supply (domestic well, irrigation district, private water company): 2 domestic wells, one near the milking parlor and one near the house.

Will the project require the installation or replacement of new water service mains? No

3. Liquid Waste Disposal:

Will liquid waste disposal be provided by private on-site septic system or public sewer?: Private onsite septic system; already in place from previous facility.

If private on-site septic system, describe the proposed system (leach field or seepage pit) and include a statement and tests explaining percolation rates, soil types, and suitability for any onsite sewage disposal systems: This is an existing septic system from the previous dairy facility. This is not a new septic system. This is a permitted septic system with Glenn County Department of Health Services and has leachfield construction.

Will any special or unique sewage wastes be generated by this project other than normally associated with resident or employee restrooms? Industrial, chemical, manufacturing, animal wastes? (Please describe) Animal waste will be at this facility but it will not be going into the sewage systems; it is retained in ponds and composted.

Should waste be generated by the proposed project other than that normally associated with a single family residence, Waste Discharge Requirements may be required by the Regional Water Quality Control Board.

4. Solid Waste Collection:

How will solid waste be collected? Individual disposal, private carrier, city? _____
Local waste management company.

5. Source of Energy:

What is the source of energy (electricity, natural gas, propane)? _____
Electricity and propane for heat in the maternity barn.

If electricity, do any overhead electrical facilities require relocation? Is so, please describe: No

If natural gas, do existing gas lines have to be increased in size? If yes, please describe: _____

Do existing gas lines require relocation? If yes, please describe: _____

6. Fire Protection:

Indicate number and size of existing and/or proposed fire hydrants and distance from proposed buildings: There are no fire hydrants located at this facility. The Artois fire dept. is 4 miles south and the Orland fire dept. is 5 miles north of the facility.

Indicate number and capacity of existing and/or proposed water storage facilities and distance from proposed buildings: There are 6 wastewater ponds located about 1/4 a mile south of the barns.

IV. FOR ZONE CHANGE, ZONE VARIANCE, AND SPECIAL USE PERMIT APPLICATION:

1. Number and sizes of existing and proposed structures: _____

Square footage (structures) _____ S.F.; _____ S.F.
(New) (Existing)
2. Percentage of lot coverage: _____
3. Amount of off-street parking provided: _____
4. Will the project be constructed in phases? If so, please describe each phase briefly: _____

5. If residential, include the number of units, schedule of unit sizes, range of sale prices or rents, and type of household size expected: _____

6. If commercial, indicate type, estimated employment per shift, days and hours of operation, estimated number of daily customers/visitors on site at peak time, and loading facilities: _____

7. If industrial, indicate type, estimated employment per shift, and loading facilities: _____

8. If institutional, indicate the major function, estimated employment per shift, estimated occupancy, loading facilities, and community benefits to be derived from the project: _____

9. List types and quantities of any hazardous or toxic materials, chemicals, pesticides, flammable liquids, or other similar product used as a part of the operation and storage container sizes: _____

Submit Material Safety Data Sheets (MSDS) for any proposed hazardous materials. If hazardous materials are proposed, it is recommended that the applicant contact the Air Pollution Control District/CUPA for permitting requirements.

Glenn County Planning & Public Works Agency
Environmental Information Form

10. Describe any earthwork (grading) to be done and dust control methods to be used during construction:_____
11. Describe any potential noise or vibration sources associated with the project (i.e. compressor, machine noise, heavy equipment)._____
12. Describe source, type, and amount of air pollutant emissions (smoke, odors, steam, gases, water vapor, dust, chemicals) from the project. Describe what methods would be used to reduce emissions:_____

V. CERTIFICATION:

I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this initial evaluation to the best of my ability, and that the facts, statements and information presented are true and correct to the best of my knowledge and belief.

Date: 3/18/2020 Signature: Wendy Johnston
For: Mission Livestock VESTRA Resources, Inc.

According to Section 65943 for the California Government Code, your application will be reviewed within 30 days and you or your agent will receive written notice regarding the completeness of your application. Any reviewing agency may, in the course of processing the application, request the applicant to clarify, amplify, correct, or otherwise supplement the information required for the application.

According to Section 65944 (C), additional information may be requested in order to comply with Division 13 of the State of California Public Resources Code.

DRAFT

WASTE MANAGEMENT PLAN

MISSION LIVESTOCK
ORLAND, CALIFORNIA
ORDER No. R5-2017-0058

DRAFT

Prepared for

Mission Livestock

Prepared by

VESTRA Resources, Inc.
5300 Aviation Drive
Redding, California 96002

APRIL 2020

WASTE MANAGEMENT PLAN

MISSION LIVESTOCK
ORLAND, CALIFORNIA
ORDER No. R5-2017-0058

Prepared for

Mission Livestock

DRAFT

Prepared by

VESTRA Resources, Inc.
5300 Aviation Drive
Redding, California 96002

72007

APRIL 2020

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9	Surface Drainage Map
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APPENDICES

A	Notice of Intent
B	Glenn County Resolution CEQA and Use Permit
C	Form 200
D	Soil Report
E	Water Balance
F	Historical Groundwater Data

1.0 INTRODUCTION

1.1 Facility Description

Facility Name: Mission Livestock

County: Glenn

Facility Address: 6569 County Road 27 Orland, CA 95963 (see Figure 1)

Parcel Number: Portion of APN 024-100-017-0

Contact Information: Douglas Freitas, Mission Livestock

Mailing Address: P.O. Box 933 Dixon, CA 94914

Phone number: (510) 996-8455

Mission Livestock is applying for coverage under Order R5-2017-0058 *Waste Discharge Requirements General Orders for Confined Bovine Feeding Operations* (General Order). The proposed location is a historical dairy facility that has been operated as a dairy since 2001. The dairy was covered under individual Waste Discharge Requirements (WDR) Order R5-2008-0122 and will cease operation in June 2020. Previous to that, the facility was operated as a feedlot from 1978 to 1995. The facility meets the requirements of the General Order for an “Existing Facility.” The dairy completed an expansion in 2008 and the maximum herd size was addressed in a CEQA document approved by Glenn County in 2007. The Notice of Intent to apply for coverage under the General Order is included as Appendix A and the Glenn County resolution adopting the Use Permit and CEQA Mitigated Negative Declaration is included in Appendix B.

The former dairy facility and surrounding property are owned by Paul Violich Revocable Trust; Violich Farms, Inc.; and Alcatraz Farming, Inc. (see Figure 2). Mission Livestock will lease the former dairy facility as outlined on Figure 3. A revised Form 200 covering the change in operation is included in Appendix C.

The expansion permitted in 2007 addressed 5,567 Animal Units (AU) (4,100 Holstein cows and heifers; see Table 1). Previous operators have implemented Best Management Practices (BMPs) while operating the facility. Due to responsible facility oversight, pests and odors were kept to a minimum and structures are in good working condition. The site includes six clay-lined wastewater ponds, three freestall barns, manure separator and drying area, medical barns, exercise pens, stormwater retention pond (non-contact), and numerous feed storage buildings. Site layout is shown on Figure 3. The dairy currently composts manure onsite for use as bedding. The parcel is zoned “Intensive Agriculture” as shown on Figure 4.

Mission Livestock proposes to convert the dairy to a feedlot housing an average of approximately 7,100 head of beef cattle. The cattle would be comprised of mixed breeds. The calves would weigh approximately 350 to 500 pounds when arriving at the feedlot. Cattle would be at the feedlot for approximately 150 days. The weight of the cattle when leaving the feedlot will be approximately 950 pounds. The overall average weight of cattle at the feedlot is estimated to be 675 pounds.

According to the General Order specifications, the AU will range from 0.35 to 0.85 per animal. When operating, the dairy housed 4,100 head of Holstein dairy cattle at an AU of 1.4 per animal. The average beef cattle at the feedlot facility are estimated to be 0.60 AU. The desired average

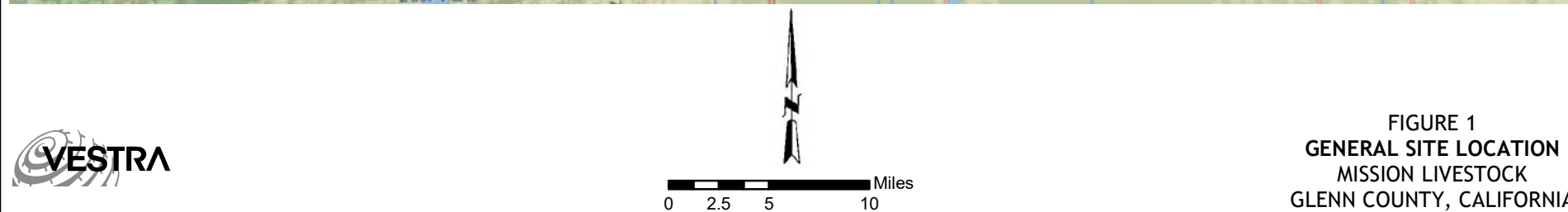
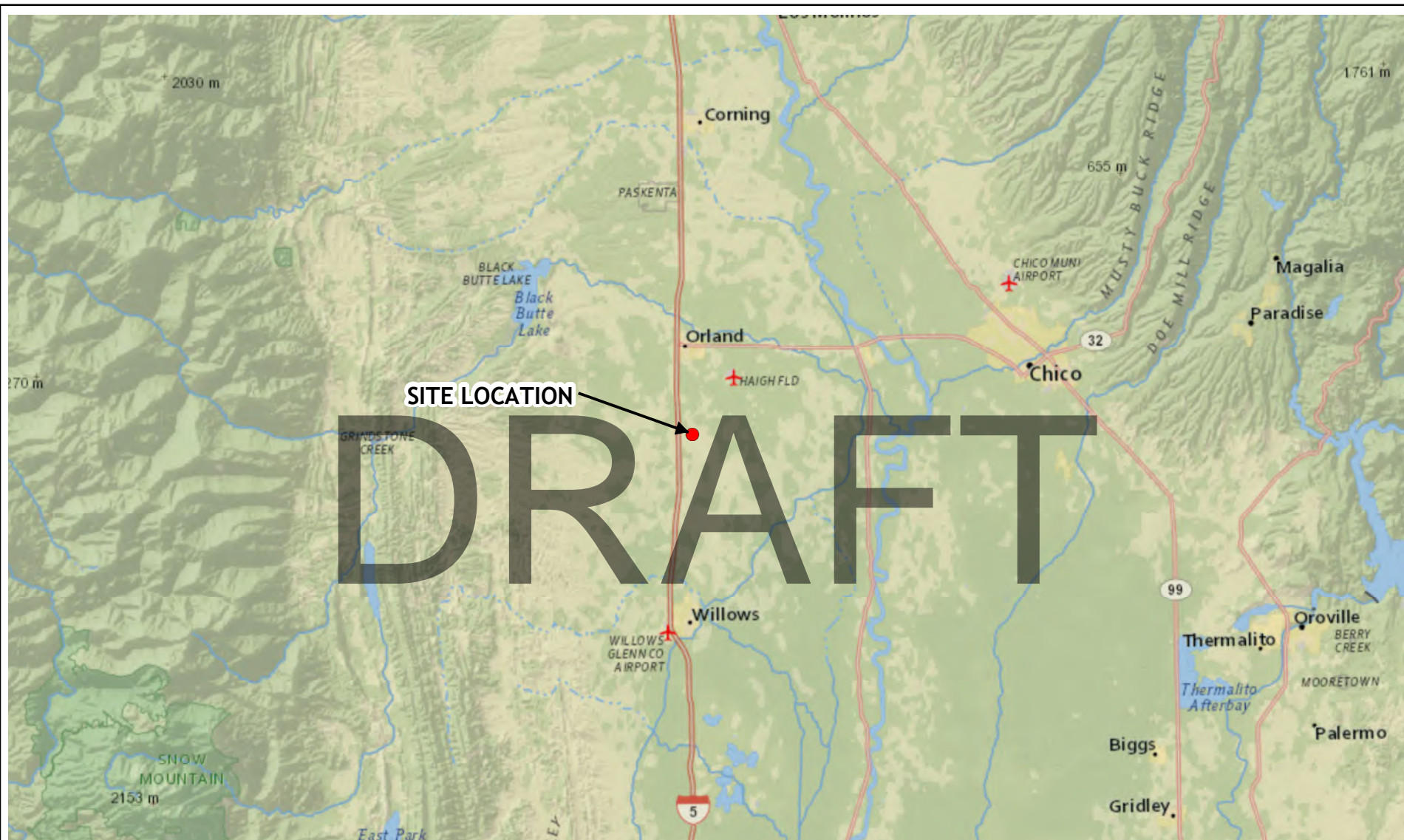



FIGURE 1
GENERAL SITE LOCATION
MISSION LIVESTOCK
GLENN COUNTY, CALIFORNIA



 Approximate Parcel Boundary

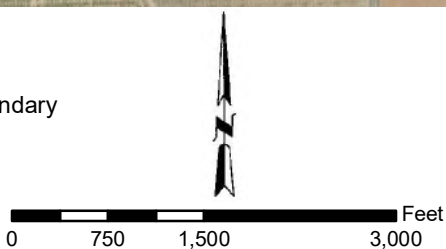
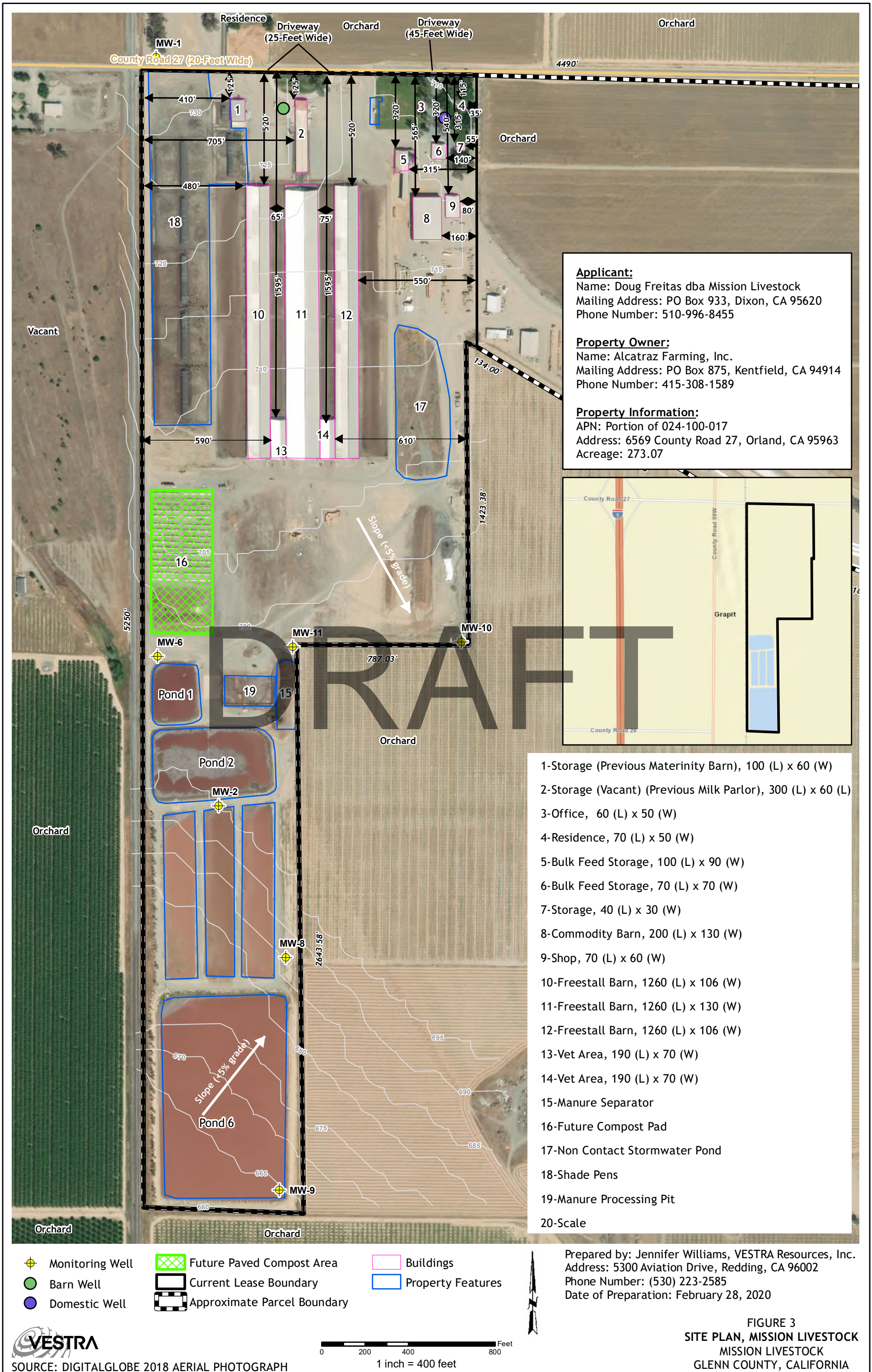
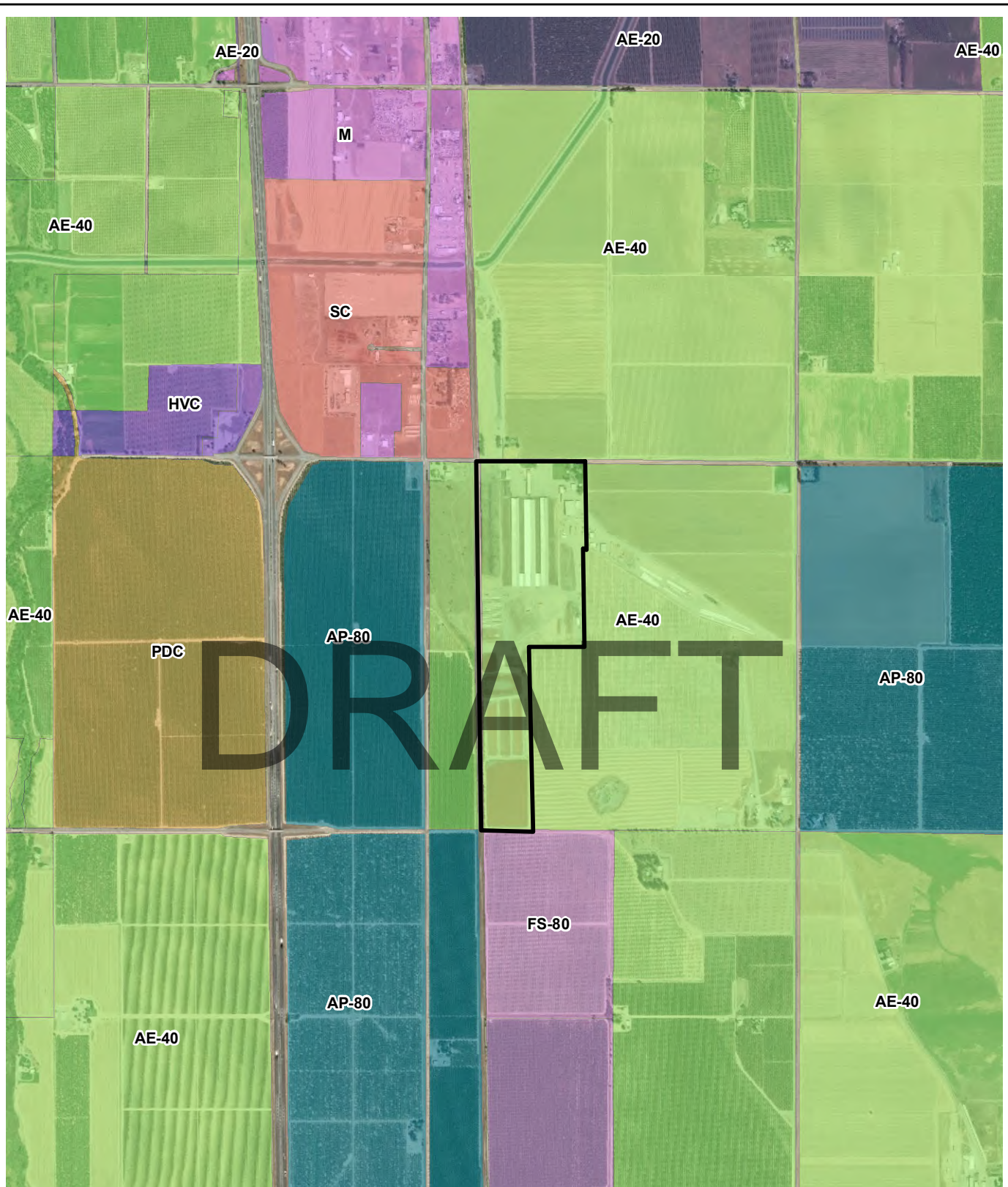


FIGURE 2
OWNERSHIP FORMER
GREENWOOD DAIRY
MISSION LIVESTOCK
GLENN COUNTY, CALIFORNIA

SOURCE: DIGITALGLOBE 2018 AERIAL PHOTOGRAPH

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- | | |
|---|--|
| Current Lease Area | HVC: Highway Visitor Commercial Zone |
| AE-20: General Agriculture (20-Acre Minimum) | M: Industrial |
| AE-40: Intensive Agriculture (40-Acre Minimum) | PDC: Planned Development Commercial Zone |
| AP-80: Intensive Agriculture (80-Acre Minimum) | SC: Service Commercial Zone |
| FS-80: Farmland Security Zone (80-Acre Minimum) | |



0 1,000 2,000 4,000 Feet

SOURCE: GLENN COUNTY PLANNING DEPARTMENT 2020

FIGURE 4
ZONING
MISSION LIVESTOCK
GLENN COUNTY, CALIFORNIA



7,100 head of beef cattle is estimated to be approximately 4,260 AU, below the currently permitted operating limit of 5,567 AU. The 5,567 AU would allow a maximum of 9,278 head at an average AU of 0.6. The 5,567 AU expansion underwent CEQA review and was approved by Glenn County in 2007. Previous dairy facility approved operating herd size is shown in Table 1. Greenwood Dairy plans to cease operations and transport all cows offsite by May 2020. Although Mission Livestock does not anticipate housing this cattle volume, this would be the maximum allowed under this Order.

<p align="center">Table 1 PREVIOUS DAIRY FACILITY APPROVED OPERATING HERD SIZE</p>			
Milk Cow (Holstein)	Animal Count	Factor	AU
Dry Cow (Holstein)	3,500	1.40	4,900
Heifers 12-24 months	550	1.12	616
Heifers 3-12 months	50	1.02	51
Calves	0	0.49	0
Total	4,100	--	5,567

Manure will continue to be composted onsite. The manure will be combined with almond processing waste from the adjoining orchards, composted onsite, and returned to the adjacent orchards. Water from the ponds may be used to provide moisture to the compost. The composting operation meets the definition of “agricultural composting” under the current Order WQ 2015-0121-DWQ *General Waste Discharge Requirements for Composting Operations* and would be exempt from the requirements of the Order. If required to do so, the facility will limit the production of compost to no more than 25,000 cubic yards processed onsite at any given time to meet the requirements of the pending amendment to the Order dated October 31, 2019 (not yet adopted).

1.2 Location

The facility is located 4 miles south of Orland in Glenn County at 6569 County Road 27, Section 15, Township 21 North, Range 3 West, M.D.B.M. Based on U.S. Geological Survey (USGS) Orland 7.5-minute Quadrangle, the site coordinates are Latitude: 39.674°N, Longitude: 122.190°W. County Road 27 borders the property to the north, Southern Pacific Railroad line and private parcels border the property to the west, and the Fulton Reclamation and Recycling borders the property to the south. Irrigated croplands border the property to the northeast. The site layout of the proposed feedlot was included as Figure 3. The previous land application areas (cropland) have been converted to almonds. No land application of wastewater will occur. The onsite wastewater ponds will be used to collect and retain onsite stormwater from areas that contact manure. Roof runoff and other “non-contact” water is directed to a separate stormwater detention pond.

1.3 Zoning

The property being leased by Mission Livestock is zoned *Intensive Agriculture, 40-acre minimum*, as shown on Figure 4.

2.0 SITE INFORMATION

2.1 Precipitation

The Orland weather station (No. 046506) averages approximately 20 inches of precipitation per year with a period of record 1903-2019. Most precipitation falls during the winter months, with 81 percent of the annual total received between November and March. Summer thundershowers account for less than 1 percent of the annual precipitation. Average annual precipitation is summarized in Table 2 and on Figure 5.

2.2 Evaporation

Pan evaporation for the Chico Experiment Station (1906-2005) and evapotranspiration (ET_o) data for the Durham CIMIS Station are summarized in Table 2 and shown on Figure 6.

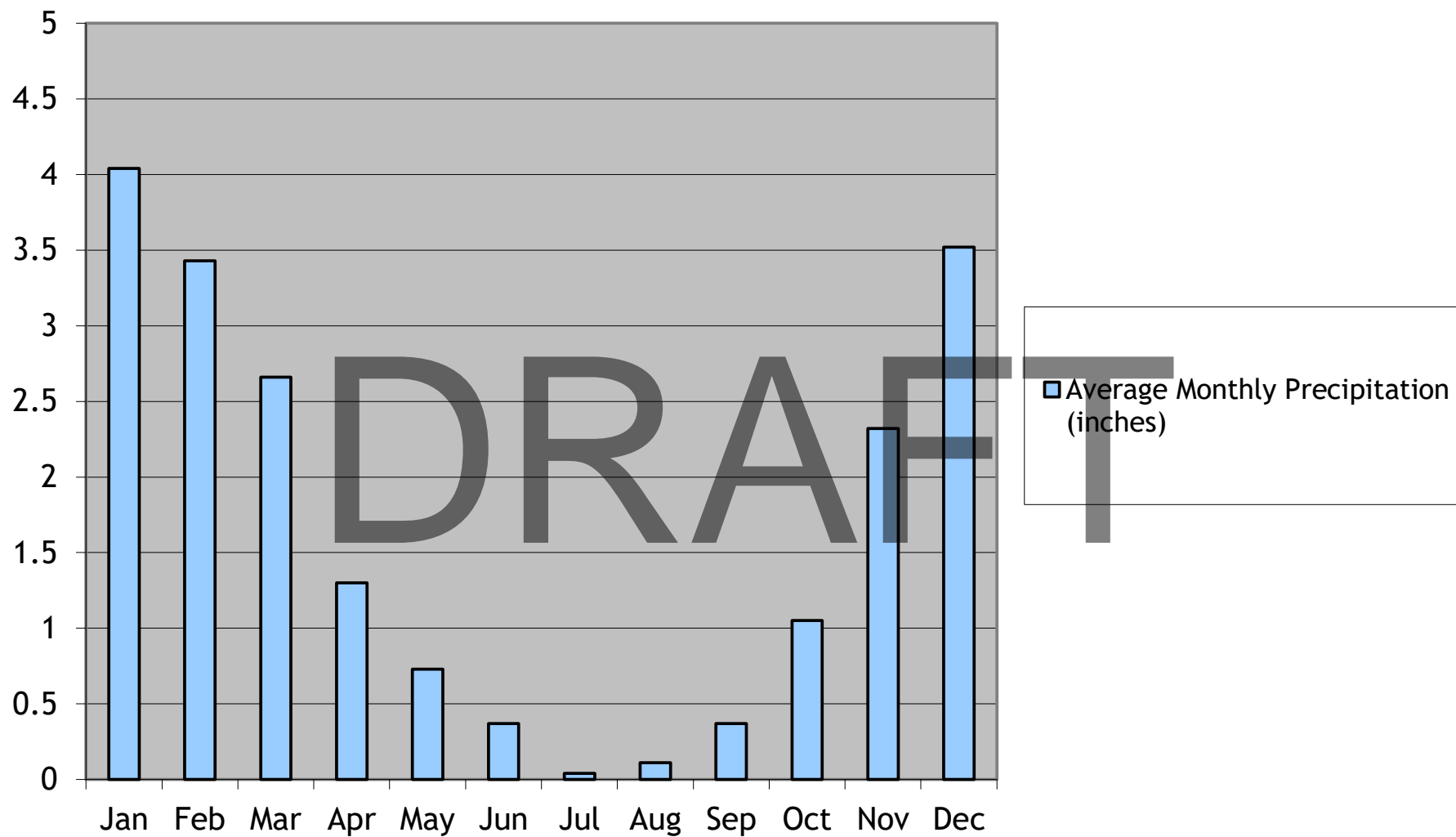
Table 2 PRECIPITATION, PAN EVAPORATION, AND EVAPOTRANSPIRATION				
Month	Average Precipitation¹	Average Precipitation x 1.5	Pan Evaporation²	ET_o³
10	1.05	1.58	4.46	3.33
11	2.32	3.48	2.09	1.63
12	3.52	5.28	1.30	1.05
1	4.04	6.06	1.26	1.21
2	3.43	5.15	2.13	1.95
3	2.66	3.99	3.82	3.40
4	1.30	1.95	5.63	4.89
5	0.73	1.10	8.28	6.58
6	0.37	0.56	10.11	7.35
7	0.04	0.06	11.48	7.54
8	0.11	0.17	9.71	6.61
9	0.37	0.56	7.36	4.92
Total	19.94	29.91	67.63	50.46
Notes: 1 Orland, California (046506), 1903-2016, WRCC 2020 2 Chico Experiment Station, 1906-2005, WRCC 2020 3 Durham CIMIS Station 12, CIMIS 2020				

2.3 25-Year/24-Hour Storm

The 25-year, 24-hour storm for the site (NOAA Atlas 14, Volume 6, version 2, Orland Station No. 046506) is 3.89 inches.

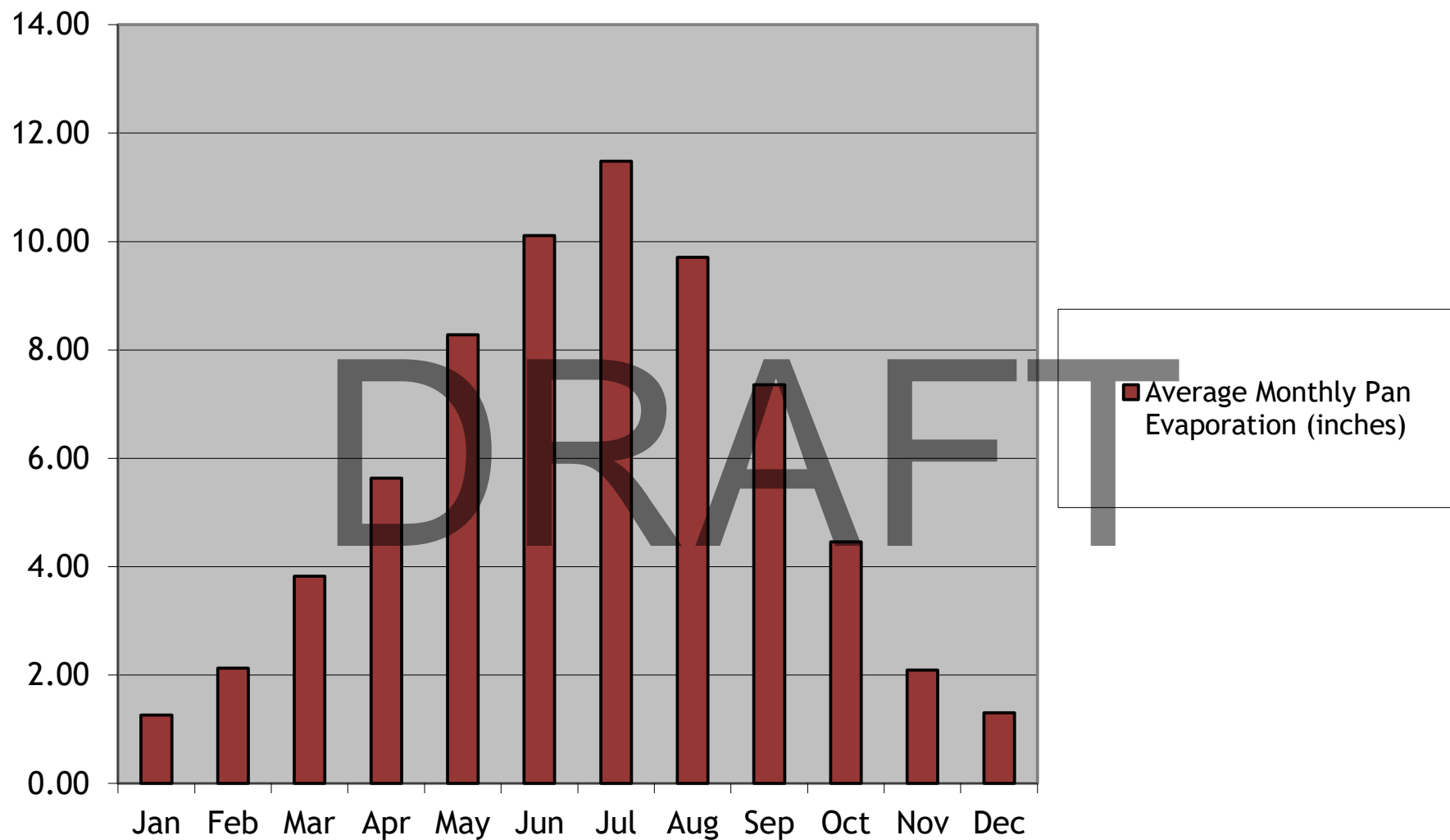
2.4 Flood Protection

The feedlot is not located near any streams and is outside of any 100-year flood hazard zones. The site is located in an area of minimal flooding, Zone X. Flood potentials are derived from the Flood Insurance Rate Map (FIRM) prepared by the Federal Emergency Management Agency



SOURCE: WESTERN REGIONAL CLIMATE CENTER, ORLAND STATION 046506

FIGURE 5
AVERAGE MONTHLY PRECIPITATION
MISSION LIVESTOCK
GLENN COUNTY, CALIFORNIA



SOURCE: NCDC COOP STATION 041715 (CHICO EXPERIMENT STATION)

FIGURE 6
AVERAGE MONTHLY PAN EVAPORATION
MISSION LIVESTOCK
GLENN COUNTY, CALIFORNIA

(FEMA). The FIRM Map, Community Panel No. 06021C0400D, dated August 5, 2010, is shown on Figure 7.

2.5 Aesthetics

This facility is surrounded by farmland. Paul Violich Revocable Trust; Violich Farms, Inc.; and Alcatraz Farming, Inc. have purchased this facility and surrounding ground. Violich Farms will complete planting almond orchards on the ground previously used for wastewater disposal in 2020. This facility has housed bovines since the late 1970s and there will be no change in aesthetics to the feedlot facility. The closest urban area is 2.5 miles from the facility.

2.6 Topography

Topography of the facility slopes gently to the southeast. The elevation of the site ranges from approximately 730 feet above sea level at the northwest corner of the property (the intersection of Highway 99W and County Road 25) to approximately 660 feet above sea level at the southwest corner of the property near the intersection of Highway 99W and County Road 28.



2.7 Soils Information

The soils in the immediate vicinity of the feedlot facility, including the area of the wastewater ponds, are composed of Cortina very gravelly sandy loam. The Cortina series consists of excessively drained soils on recent gravelly alluvium from schistose, sedimentary, and metavolcanic rocks. These soils are characteristically gravelly or very gravelly and coarse textured or moderately coarse textured. They are shallow to moderately deep over channel sand and gravel. These soils typically have a light brownish-gray or grayish-brown surface layer that is slightly acid. The soil depth to sand and gravel is more than 36 inches. Permeability is very rapid and the available moisture holding capacity is 3 to 5 inches. Cortina series soils generally occupy narrow areas that are small or medium in size. Cortina soils are of limited agricultural value due to low water retention capacities. In this area, the Cortina series overlays the Stony Creek alluvial fan. Site soils are summarized in additional detail in Appendix D.

2.8 Local Well Information

As required by the General Order, the locations of surrounding monitoring and water supply wells within 600 feet of the site are included on Figure 8. Detailed information on the monitoring wells is provided in Section 5.



-  Current Lease Area
-  Zone X: Area of Minimal Flood Hazard

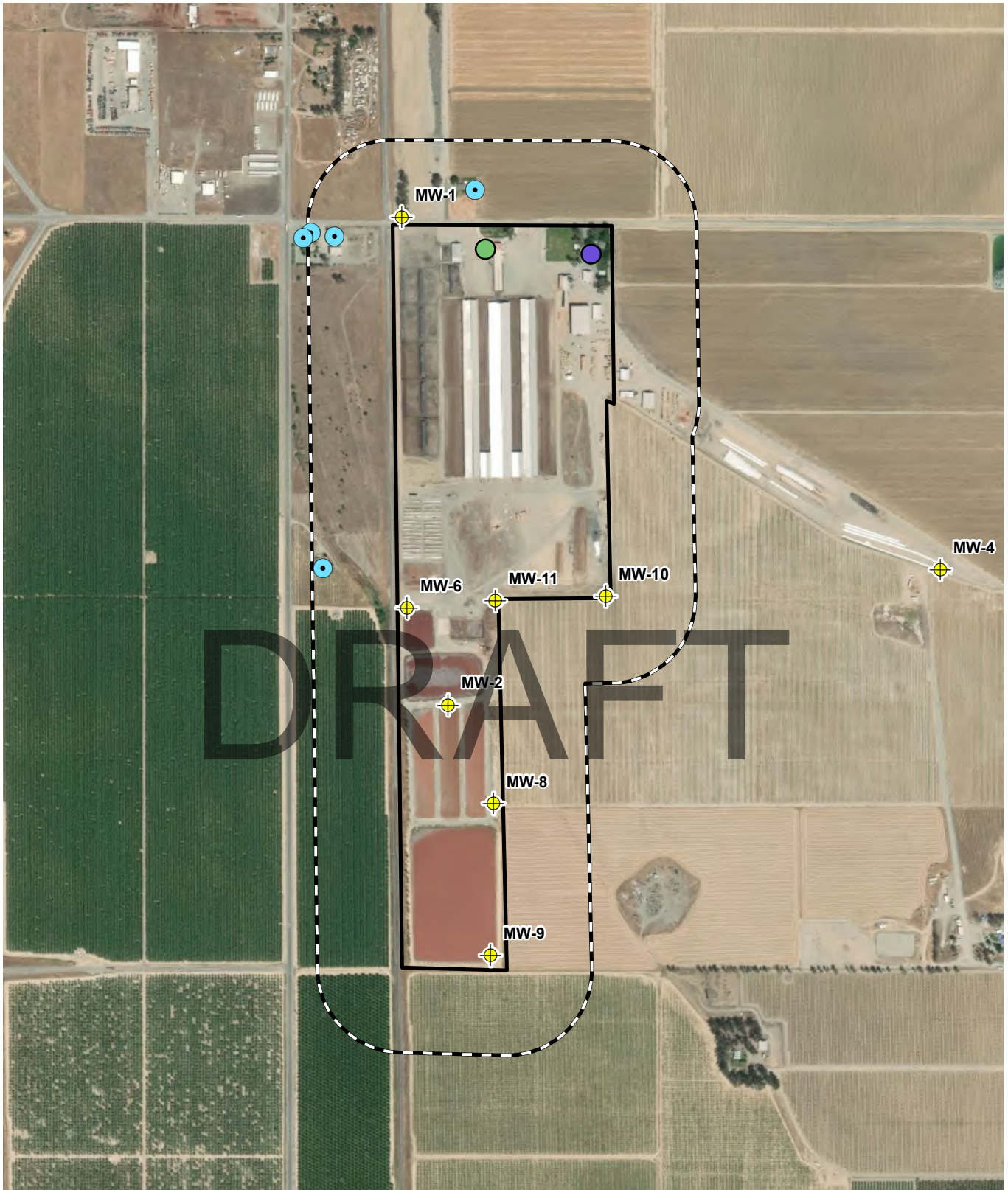


0 500 1,000 2,000 Feet



SOURCE: DIGITALGLOBE 2018 AERIAL PHOTOGRAPH; FEMA 2019

FIGURE 7
FEMA FLOOD ZONES
MISSION LIVESTOCK
GLENN COUNTY, CALIFORNIA



Monitoring Well

Offsite Well

Barn Well

Current Lease Area

Domestic Well

600-Foot Buffer Around Current Lease Area



0 500 1,000 2,000 Feet



FIGURE 8
WELL LOCATIONS WITHIN 600 FEET
MISSION LIVESTOCK
GLENN COUNTY, CALIFORNIA

SOURCE: DIGITALGLOBE 2018 AERIAL PHOTOGRAPH

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3.0 CONSTRUCTION SPECIFICATIONS

A Conditional Use Permit to expand the previous dairy was approved by the Glenn County Department of Planning and Public Works on December 19, 2007. The expansion included increasing the herd size to 5,567 AU and adding shade structures; a Saudi-style freestall, hay, and new maternity barns. In addition, the three wastewater storage ponds and the emergency overflow detention basin constructed in 2006 were added to the Use Permit.

3.1 Site Drainage

The corral drainage and any flush water from the barns flows to sumps located at the south end of the corral area and barns where it is collected into sumps and pumped to the wastewater lagoons via an underground piping system. All corral areas are constructed to direct contaminated runoff to the sumps hence to the wastewater ponds as shown on Figure 9.

Barn roof drains collect clean runoff where it is conveyed to the non-contact stormwater pond located east of the corrals (see Figure 9). This water percolates into the ground.

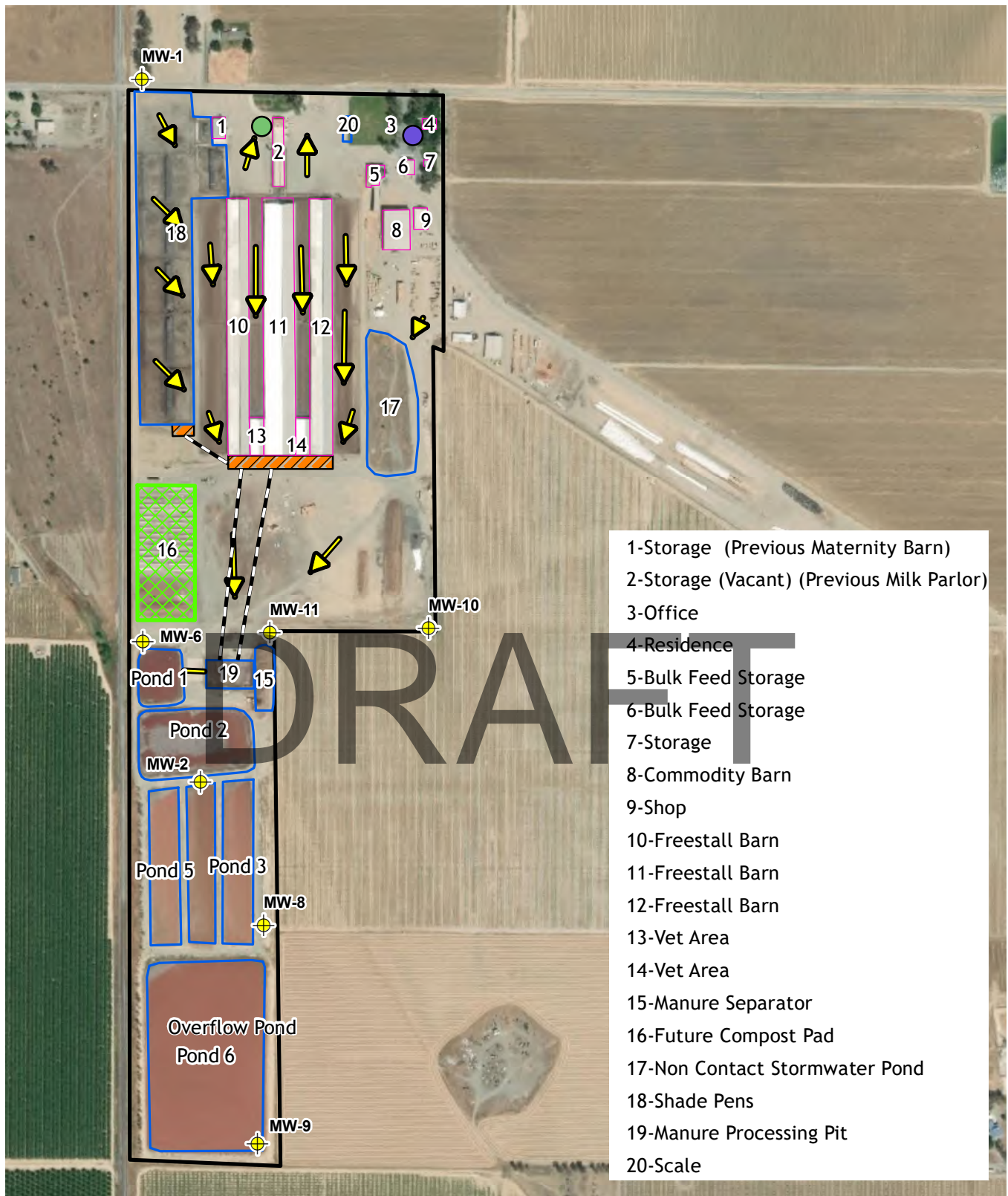
3.2 Structures

Onsite structures to be used by the feedlot are summarized in Table 3 and shown on Figure 9.

Table 3 CURRENT BUILDINGS AND APPURTENANCES		
Structure	Size (feet)	Year Constructed
Freestall Barn 1	1260 x 106	2000
Freestall Barn 2	1260 x 106	2000
Shop	60 x 70	1948
Feed Barn	100 x 60	1969
Hay Barn 1	70 x 70	1948
Hay Barn 2	70 x 100	1948
Hay Barn 3	80 x 120	Unknown
Pole Barn	200 x 130	2002
Milking Parlor	300 x 60	2000
Maternity Barn	100 x 60	1970
Office	60 x 50	1920s
Freestall Barn	1260 x 130	2008
Shade Structures (10)	30 x 120	2012
Saudi-Style Barn	1260 x 80	2008
Hay Barns	88 x 300	2014

3.3 Wastewater Generation

In 2016 the dairy installed a cattle cooling system in all freestall barns. The mist/sprinkler water is conveyed to the storage ponds. This is anticipated to be the only wastewater generated onsite. Most of this water is lost to the atmosphere. A small percentage may be retained in the storage



- 1-Storage (Previous Maternity Barn)
- 2-Storage (Vacant) (Previous Milk Parlor)
- 3-Office
- 4-Residence
- 5-Bulk Feed Storage
- 6-Bulk Feed Storage
- 7-Storage
- 8-Commodity Barn
- 9-Shop
- 10-Freestall Barn
- 11-Freestall Barn
- 12-Freestall Barn
- 13-Vet Area
- 14-Vet Area
- 15-Manure Separator
- 16-Future Compost Pad
- 17-Non Contact Stormwater Pond
- 18-Shade Pens
- 19-Manure Processing Pit
- 20-Scale

- Monitoring Well
- Barn Well
- Domestic Well
- Piping
- Drainage Flow Direction
- Buildings
- Future Paved Compost Area

- Property Features
- Sump Pumps
- Current Lease Boundary



0 350 700 1,400 Feet

SOURCE: DIGITALGLOBE 2018 AERIAL PHOTOGRAPH

FIGURE 9
SURFACE DRAINAGE MAP
MISSION LIVESTOCK
GLENN COUNTY, CALIFORNIA

ponds. The system will be used only during the summer months when evaporation is greater than precipitation.

3.4 Pond Capacity and Construction Details

There are six wastewater ponds onsite. Pond 1 is used for flush water storage. Ponds 2, 3, 4, and 5 are used for additional wastewater storage as needed and to provide improved sediment removal. Pond 6 serves as an emergency pond for use only in times of heavy precipitation. Pond construction details are shown in Table 4. All wastewater ponds were constructed with clay liners.

Table 4 POND INFORMATION					
Pond ID	Top Water Surface Area (sq feet)	Bottom Surface Area (sq feet)	Side Slopes	Depth (feet)	Storage Volume Available (cu feet) ¹
1	52,975	22,810	3.3:1	12.5	473,656
2	173,580	104,970	4:1	11.5	1,601,662.5
3	105,790	44,890	3:1	12	904,080
4	103,810	44,140	3:1	12	887,700
5	106,505	47,820	3:1	12	925,950
Total Pond Volume					4,793,050
Overflow	543,735	499,580	3:1	6	3,129,945
Contingency Pond Volume					3,129,945
Notes: 1 Storage volume does not include 2 feet of freeboard (No Discharge Technical Report, VESTRA 2015)					

Kleinfelder designed Ponds 1 and 2 for the original dairy in 2001. These ponds were lined with 24 inches of clay material compacted to 90 percent relative compaction with a permeability of 10^{-6} centimeters per second (cm/sec) or less. Additional details are available in the *Geotechnical Investigation Report, Proposed Verboom Dairy Ponds, Orland, California* (Kleinfelder, 2001b). Ponds 3, 4, 5, and 6 were installed in 2006. These ponds were lined with 12 inches of clay material compacted to 95 percent relative compaction with a permeability of 10^{-6} cm/sec or less.

Ponds will be dry by mid-October each year to allow for pond cleaning as well as provide storage capacity for rainy seasons and stormwater runoff.

3.5 Wastewater Capacity Calculation

As summarized in Table 4 and documented in the No Discharge Technical Report, Notice of Non-Applicability Order 2014-0057-DWQ (VESTRA, 2015) and in the Waste Management Plan Update (VESTRA, 2016); the Available Storage Capacity (which excludes 2 feet of freeboard) in the six onsite wastewater storage ponds is approximately 8,000,000 cubic feet or 180 acre-feet. These ponds were constructed by the former dairy and will be used to contain all wastewater runoff from the feedlot facility.

To determine if the existing wastewater ponds have 1) sufficient capacity to meet the rainfall criteria outlined in Attachment B – Waste Management Plan, Waste Discharge Requirements

General Order R5-2017-0058, and 2) sufficient surface area to evaporate the water stored in the ponds prior to the next winter season, a monthly annual water balance for the facility was conducted. Key input parameters for the water balance are presented in Table 5. Additional details and supporting information are presented in Appendix E.

Table 5 WATER BALANCE INPUT PARAMETERS			
Parameter	Value	Units	Source
Average Annual Precipitation	29.91	inches	See Table 2
Precipitation Factor	1.5	---	Order R5-2017-0058, Attachment B
25-year, 24 hour design storm	3.89	inches	NOAA Atlas 14, Volume 6, Version 2, Orland 04-6506
Average Annual ETo	50.46	inches	See Table 2
Evaporation Factor	1.1	---	Conservative estimate to calculate pond evaporation from reference ETo
Total Pond Surface Area	25	acres	Table 4
Average Pond Surface Area	21	acres	Calculated
Runoff Area	50.5	acres	From Site Plan
Runoff Factor	0.4	fraction	Conservative estimate based on 2016 WMP Update
Compost Area	3.5	acres	From Site Plan
Compost Water Use	0.0921	aft/acre/month	Based on water use at a compost facility in Orland

Based on the result of the water balance, the Maximum Water Storage Volume required based on the input parameters presented in Table 5 is approximately 3,500,000 cubic feet or 80 acre-feet at the end of March. This Maximum Water Storage Volume is less than the Available Storage Capacity of the wastewater ponds of 8,000,000 cubic feet. Based on this calculation, the wastewater ponds have sufficient capacity to meet the rainfall criteria outlined in the General Order, Attachment B. The water balance included the required precipitation factor of 1.5.

Furthermore, based on the results of the water balance, the wastewater ponds will be dry by the end of August. This conclusion is based on the assumption that it may be necessary to manage residual water in the wastewater ponds to maximize evaporation following wet winter seasons. For example, if only Ponds 1 through 5 are used for water storage during a wet winter, it may be necessary to transfer water from these ponds into Pond 6 during the summer months to maximize surface evaporation.

4.0 OPERATION AND MAINTENANCE PLAN

4.1 Operating Hours

The feedlot facility will operate seven days a week from 6 a.m. to 5 p.m., Monday through Sunday, and will employ six full-time workers.

4.2 Mortality Management Plan

Dead animals will be immediately removed from corrals or barns and temporarily relocated to an isolated site away from both County Road 27 and Railroad Avenue, out of public view, until removal. Dead animals will be disposed of in a way that does not adversely affect ground or surface water. During the summer months, lime will be applied to the area for sanitation and odor mitigation.

Sacramento Rendering Company pick-up days are Monday, Wednesdays and Fridays. Mission Livestock will have a better percentage basis for mortality numbers at the feedlot following an operational period. The previous dairy had many upgrades to the facility including more areas for shade and more room for animals to be housed. The previous death loss was between 4 and 6 percent. The feedlot will apply BMPs to ensure their livestock are treated humanely with adequate food, water, and shelter from weather elements. The industry standard for feedlot mortality according to the agweb.com Cattle Network is about 2 percent.

As required, the contact information for Sacramento Rendering Company is:

Sacramento Rendering Company
11350 Kiefer Boulevard
Mather, California 95830
airyourthoughts@SRCCcompanies.com
1-800-339-6493

4.3 Manure Management

The average manure generation will be approximately 21.5 pounds per head per day at 65 percent dry matter. With 7,100 cattle at the feedlot facility, roughly 152,650 pounds per day of manure will be generated. Tons of manure per year is estimated at 27,858 tons. Barns will be scraped or vacuumed daily.

The main storage area for manure is between the barns and ponds. Manure is currently composted in this area. Composting will continue under the new operation. Manure will be removed from the barns by a loader or vacuum. In the winter months, if sufficient volume in the detention ponds is available, some flushing may occur. Scraping or vacuum will be used during the summer season. The plan is to pave the manure composting area. The new operator is evaluating manure removal options and may use a combination of flushing, scraping, and vacuuming in the barns. External pen areas will be scrapped.

If the barns are flushed, the wastewater will run through the separator. The separator will remove the 20 to 30 percent of waste solids with a stationary screen, and the water will continue on into the ponds with solids redirected to composting piles. If necessary, some manure will be removed from the site.

4.4 Composting

Manure at the dairy is currently composted and used as bedding. Manure composting will continue under the feedlot operation. Winter composting will be conducted on a low-permeable surface (compacted material or asphalt). Water from the ponds may be used to provide moisture to the compost. The composting operation meets the definition of “agricultural composting” under the current Order WQ 2015-0121-DWQ *General Waste Discharge Requirements for Composting Operations* and would be exempt from the requirements of the Order. If required to do so, the facility will limit the production of compost to no more than 25,000 cubic yards processed onsite at any given time to meet the requirements of the pending amendment to the Order dated October 31, 2019 (not yet adopted).

4.5 Backflow Prevention Devices

No land application of wastewater will occur. The barn well and domestic well are separate from any wastewater connections and only supply fresh water to the existing barn and residence. In the feedlot operation, there will be no wastewater application to surrounding croplands. Backflow protection was in place in all wells associated with the previous dairy operation.

4.6 Chemical Use

Mission Livestock will focus on BMPs and good housekeeping to suppress weeds and algae in the ponds. Maintaining flows of water between the ponds and maintaining minimal depth of pond water will help to facilitate maximum evaporation through solar heating of the stored water and will help limit algae and aquatic plant growth. Limited chemicals will be used in addition to the facility’s BMPs. Any chemicals used will be administered, stored, and disposed of according to the product labels and in accordance with Federal and State laws and regulations.

Glyphosate (Roundup) will be used for weed control. Glyphosate is the most commonly used broad-spectrum, non-selective systemic herbicide in the United States. It is categorized as a phosphonomethyl amino acid. This herbicide is widely used in forestry, agriculture, residential, and industrial areas. Roundup kills both broadleaf plants and grasses. It works by preventing plants from making certain proteins that they need for plant growth. The product is absorbed through the leaves and translocated throughout the plant. It concentrates in the meristem tissue where it stunts growth, malforms and discolors leaves, and causes plant death. This enzyme is not present in mammalian systems.

Livestock pharmaceuticals will be stored in a temperature-controlled room with an electronically controlled access pharmaceutical dispenser.

4.7 Salt Management

Feedlot rations need to contain essential vitamins and minerals for proper nutrition. Most feedlot rations provide enough trace minerals with the exception of calcium, phosphorus, and salt. Hay and grain rations should be tested for mineral content. In a beef feedlot project, salt must be provided. Loose ground salt should be available for free choice feeding. Salt needs to be kept covered and in an area where it cannot penetrate into the ground. Salt could also be included in a complete ration at a rate of 0.3 percent of the ration when it is uniformly mixed and separation of ingredients is not a problem. Cattle feeders that use feedlot manure as fertilizers should keep salt levels at 0.2 to 0.3 percent of the ration. When salt is kept at these levels, it will not contribute to salt pollution. Good nutrition with proper vitamins, minerals, proteins, and salts can prevent many diseases and deficiencies.

4.8 Wastewater Pond Management

To help manage wastewater, a mechanical separator will be used to remove any solid material greater than 0.025 inches in diameter from the water stream before entering Pond 2. The removal of solids prevents buildup of material in the ponds that could serve as a surface for breeding pests. Solids that are removed by the separator are then stored on a concrete apron adjacent to the processing pits prior to composting.

Ponds will be dry by mid-October each year to allow for pond cleaning as well as ensuring sufficient storage holding for incoming rainy seasons and stormwater runoff.

Mission Livestock will apply BMPs and good housekeeping as follows:

- Daily pest and vector control
- Odor control from proper manure and pond management
- Daily barn flushing, scraping, or vacuuming
- Pond agitation
- Careful management of internal composting temperatures
- Regular removal of compost offsite
- Follow recommended inspection schedules
- Follow current Waste Discharge Requirements (WDR)
- Follow careful health management procedures for cattle (vaccinating and worming schedule)
- Supply adequate nutrition, water, and shelter to cattle
- Ensure employees are properly trained in BMPs

4.9 Vector Control

Glenn County has a fogging schedule for mosquito control from May through October 2020. The feedlot facility is in an area that will be sprayed once a week; see glennmosquito.specialdistrict.org/fogging-schedule for more information. The feedlot will use BMPs to ensure no stagnant or standing waters will be contributing to the breeding of mosquitoes.

Fly control is another area of BMPs that will be used at the facility. Manure removal, composting, fly tape, fly traps, and fly predators will be used as a means to control fly populations. Mission Livestock will utilize fly predators as a biological control, fly traps as a mechanical control, and efficiency of manure to compost management as a cultural control. Standing water will be minimized. Insecticides will be used as a last resort.

DRAFT

5.0 WELL MONITORING AND SAMPLING PLAN

5.1 Current Monitoring Network

A monitoring well network was established under the individual WDRs (R5-2008-0122) associated with Greenwood Dairy. The well locations and most recent groundwater elevation contours are shown on Figure 10. A number of these wells will be abandoned in spring 2020. Monitoring Wells MW-2, MW-6, MW-8, and MW-9 are associated with the wastewater ponds and will be retained for future sampling. In addition, Monitoring Well MW-10 will be retained because it is associated with the composting area used by the dairy operator. Monitoring well details are shown in Table 6.

Table 6 MONITORING WELL CONSTRUCTION DETAILS						
Well No.	Installation Date	Construction Material	Total Depth (ft bgs)	Screened Interval (ft bgs)	Sand Interval (ft bgs)	TOC Elevation (ft above msl)
MW-1 ¹	3/28/01	2-inch Sch. 40 PVC	46.5	20-45	18-46.5	221.28
MW-2	1/4/01	2-inch Sch. 40 PVC	50	20-50	18-50	214.59
MW-4	3/27/01	2-inch Sch. 40 PVC	46.5	20-45	18-46.5	206.68
MW-5	3/27/01	2-inch Sch. 40 PVC	46.5	20-45	18-46.5	228.10
MW-6 ¹	1/4/01	2-inch Sch. 40 PVC	49	19-49	17-49	213.06
MW-8	3/20/08	2-inch Sch. 40 PVC	45	25-45	23-50	210.28
MW-9	3/20/08	2-inch Sch. 40 PVC	50	30-50	26-50	207.30
MW-10	1/14/08	2-inch Sch. 40 PVC	45	20-45	18-45	209.52
MW-11	1/14/08	2-inch Sch. 40 PVC	50	30-50	25-50	215.93
Notes: bgs = below ground surface, msl = mean sea level, TOC = top of casing ¹ Screened intervals were modified in the Second Semi-Annual 2010 Monitoring Report to reflect the actual total depths for the two wells measured in the field; the well identification numbers are believed to have been interchanged during late 2001. MW-3 was abandoned pursuant to RWQCB approval on 11/30/11. MW-7 was abandoned during construction of Ponds 3, 4, 5, and 6 in March 2008. MW-1, 4, 5, and 11 are to be abandoned spring 2020. MW-2, 6, 8, 9, and 10 will be retained.						

5.2 Groundwater Monitoring

Monitoring wells that are going to be retained onsite are MW-2, MW-6, MW-8, MW-9, and MW-10. These wells were last sampled on May 30, 2019, and have been sampled quarterly since 2001.

Previous sampling of monitoring wells, irrigation and domestic wells has been performed in accordance with WDR Order No. R5-2008-0122. Historical irrigation and domestic well groundwater analytical data are included in the Second Semi-Annual 2019 Report (VESTRA, January 2020). Most recent groundwater elevations are summarized in Table 7. Groundwater flow direction is shown on Figure 10. Historical groundwater analytical data are included in Appendix F.



<p align="center">Table 7 GROUNDWATER ELEVATIONS MAY 2019</p>				
Well No.	TOC Elevation (ft above msl)	Screened Interval (ft bgs)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above msl)
MW-1	221.28	20-50 ¹	43.26	178.02
MW-2	214.59	20-50	49.31	165.28
MW-4	206.68	20-45	45.62	161.06
MW-5	228.1	20-45	30.85	197.25
MW-6	213.06	19-49 ¹	45.39	167.67
MW-8	210.28	23-50	Dry	--
MW-9	207.3	26-50	48.48	158.82
MW-10	209.52	18-45	45.12	164.4
MW-11	215.93	25-50	47.99	167.94
<p>Note: ¹ Screened intervals were modified in the Second Semi-Annual 2010 Monitoring Report to reflect the actual total depths for the two wells measured in the field; the well identification numbers are believed to have been interchanged during late 2001.</p>				

The monitoring network will be sampled annually going forward. Monitoring of the barn well and domestic well, as required in the General Order, will be discontinued. The monitoring wells will be sampled for the parameters in the General Order including:

- Field measurement of electrical conductivity and ammonium nitrogen
- Nitrate nitrogen
- General mineral (calcium, magnesium, sodium, potassium, bicarbonate carbonate, sulfate chloride, and total dissolved solids)
- Elevation

6.0 INSPECTION SCHEDULES

6.1 Production Area

Weekly/Monthly:

Weekly during the wet season (1 October to 31 May) and monthly between 1 June and 30 September (to be completed on the 1st day of each month):

- Inspect all feed, bedding, and waste storage areas (solid manure and liquid waste).
- Document any conditions or changes that could result in discharges to surface water and/or from property under control of the Discharger.
- Note whether freeboard within each liquid waste storage structure is less than, equal to, or greater than the minimum required (2 feet for aboveground ponds and 1 foot for belowground ponds)
- Document any issues with flow meters, berm integrity, cracking, slumping, erosion, excess vegetation, animal burrows, or seepage.
- Inspect the animal confinement area(s), raw materials storage area(s), and solid waste storage area(s) for proper drainage to the wastewater management system within 12 hours after the end of each major storm event (one inch of precipitation within 24 hours).
- Visual inspections of wastewater containment structures for discharge, freeboard, berm integrity, cracking, slumping erosion, and seepage.
- Photograph each pond showing the height of wastewater relative to the depth marker and the current freeboard on that date.
- All photographs shall be dated and maintained as part of the Discharger's record.

Annually:

- Inspect aboveground pipes and/or pumps that are part of the wastewater management system for leakage, and repair as necessary.

6.2 Composting Operation

Quarterly:

- Inspect working surfaces, berms, ditches, perimeter, erosion control BMPs, and any other operational surfaces for cracking, subsidence, ponding on working surfaces or within ditches, effectiveness of erosion control, maintenance activities, and evidence of any uncontrolled water or wastewater leaving or entering the operation area.
- Photograph observed and corrected deficiencies.

Annually:

Prior to the wet season (no later than August 31):

- Survey the composting operation to confirm that all containment structures are prepared for the pending wet season.
- Complete repairs by 1 October.
- Include this information in the annual monitoring and maintenance report.

After Major Storm Events (a minimum of 1 inch of precipitation within 24 hours):

- Inspect all precipitation, diversion, and drainage facilities for damage within 7 days following major storm events.
- Necessary repairs shall be completed within 30 days of the inspection.
- Report any damage and subsequent repairs, including photographs of the problem and repairs, in the annual monitoring and maintenance report portion of the annual report.

6.3 Other Monitoring Requirements

No surface water monitoring or pesticide sampling is required.

6.4 Pond Sampling

No pond sampling will be required because there will be no land application of wastewater.

6.5 Land Application

Mission Livestock will not be using land application as a part of their feedlot practices.

6.6 Tailwater Pond

There is no tailwater pond or land application.

6.7 Farm Water Quality Plan

No water quality plans are required because there is no land application at the feedlot facility.

7.0 REFERENCES

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Attachment A – Notice of Intent
Waste Discharge Requirements General Order R5-2017-0058
For Confined Bovine Feeding Operations

A-2

5. COUNTY ASSESSOR PARCEL NUMBER(S) FOR ASSOCIATED CROPLAND (Land Application Areas):

B. OPERATOR NAME: Douglas Freitas TELEPHONE NO: (510) 996-8455

OPERATOR MAILING ADDRESS: P.O. Box 933 Dixon, CA 95620
Number and Street City Zip Code

EMAIL ADDRESS: freitas.douglas.p@gmail.com

C. NAME OF LEGAL OWNER OF THE FACILITY: Paul Violich Rev Trust/ Violich Farms Inc.

LEGAL OWNER MAILING ADDRESS: P.O. Box 875 Kentfield, CA 94914
Number and Street City Zip Code

CONTACT PERSON: Julia Violich TELEPHONE NO: (415) 308-1589

EMAIL ADDRESS: jviolich@capayfarms.com

D. WHEN DID/WHEN WILL YOU BEGIN OPERATIONS AT THE FACILITY? 07 / 01 / 2020
Month Day Year

E. PERSON TO RECEIVE REGIONAL BOARD CORRESPONDENCE (OWNER OR OPERATOR OR BOTH)

A. OWNER: _____

B. OPERATOR: X

C. BOTH: _____

Attachment A – Notice of Intent
Waste Discharge Requirements General Order R5-2017-0058
For Confined Bovine Feeding Operations

A-3

TYPE OF ANIMALS AND SIZE OF THE OPERATION
--

Provide the principal breed of animals and the number of animals housed at the facility:

Principal Breed Mixed Beef Breed

<u>Current Number of Animals</u>			<u>Largest number in single month over last</u> <u>3 years (month: year:)</u>		
<u>Type of Animal</u>	Head	AUs ¹	<u>Type of Animal</u>	Head	AUs
Beef Cattle	<u>7,100</u>	<u>0.60</u>	Beef Cattle	_____	_____
Mature cows	_____	_____	Mature cows	_____	_____
Bred heifers	_____	_____	Bred heifers	_____	_____
Heifers (1-year to	_____	_____	Heifers (1-year to	_____	_____
breeding)	_____	_____	breeding)	_____	_____
Calves (3 months to 1	_____	_____	Calves (3 months to 1	_____	_____
year)	_____	_____	year)	_____	_____
Baby Calves (under 3	_____	_____	Baby Calves (under 3	_____	_____
months)	_____	_____	months)	_____	_____
TOTAL			TOTAL		
	<u>7,100</u>	<u>4,260</u>		_____	_____
	Head	AUs		Head	AUs

For Auction Markets only: Number of Pens _____
Total Area of Animal Housing (sq. ft.) _____

Animal Housing:

Describe how the animals are/will be housed (freestalls, calf hutches, open corrals, covered corrals, pasture, etc.) If more than one type of housing will be used, describe how many animals will be housed in each manner:

The facility includes three freestall barns, historical milking parlor, feed storage areas, offices, corrals, wastewater ponds, two houses, and a small shop. Each barn is approximately 133,560 square feet. Within each freestall barn, two sets of freestalls face a central feed land. Flush lanes are located along the front and rear of the freestalls. Corrals are located adjacent to each side of the freestall barns that are provided for outdoor exercise for the cattle. The corrals have been constructed so that the uppermost soils are compacted with clay at a thickness of 1.5-2.0 feet. All dairy cattle are housed within the freestall barns but have access to the corrals.

¹ See Animal Unit Conversion Table at end of NOI for instructions for converting to Animal Units

Attachment A – Notice of Intent
Waste Discharge Requirements General Order R5-2017-0058
For Confined Bovine Feeding Operations

A-4

WASTE PRODUCTION AND REUSE

A. WASTE CONTAINMENT:

DO YOU HAVE A WASTEWATER LAGOON(S)? Yes How many? 5
SETTLING BASIN(S)? Yes How Many? 1

DO ANY OF THE LAGOONS OR BASINS HAVE LINERS? X YES NO

IF YES, PLEASE DESCRIBE (e.g. EARTHEN, CONCRETE-LINED, SYNTHETIC LINER):

Clay-lined with geosynthetic filter fabric

B. WASTE REUSE:

DO YOU APPLY WASTEWATER TO CROPLAND THAT IS PART OF YOUR FACILITY?
 YES X NO

DO YOU APPLY SOLID MANURE AND/OR BEDDING TO CROPLAND THAT IS PART OF YOUR FACILITY? YES X NO

☐ IF YES, ACREAGE:

☐ IF YES, DO YOU HAVE IRRIGATED LANDS REGULATORY COVERAGE?

☐ YES

☐ NO

DO YOU APPLY BIOSOLIDS, WHEY OR OTHER WASTE TO CROPLAND THAT IS PART OF YOUR FACILITY? YES X NO

C. WASTE REMOVAL:

DO YOU TRANSFER SOME OR ALL OF YOUR SOLID MANURE AND/OR BEDDING TO OTHER PERSONS? X YES NO

DO YOU TRANSFER SOME OR ALL OF YOUR WASTEWATER TO OTHER PERSONS?
 YES X NO

D. FLOOD PROTECTION/RUNOFF CONTROLS

Is there a stream or other waterway located on or bordering your facility?
 Yes X No

If you checked "Yes", please describe the practices used to prevent animals from entering the waterway:

--

Attachment A – Notice of Intent
Waste Discharge Requirements General Order R5-2017-0058
For Confined Bovine Feeding Operations

A-5

Is storm water runoff that contacts animal wastes fully retained on the facility? X Yes No

Describe how storm water runoff is controlled and where it is stored:

Clean stormwater, not contacting manure or animals (parking lots and office) is diverted away from the site. Roof runoff is diverted to the depression east of the site.

E. COMPOSTING OPERATIONS

Does your facility include a composting operation? X Yes No

If so, complete Attachment A-1 describing your composting operation.

F. DO YOU MEET THE CRITERIA FOR THE LIMITED TIME OPERATION TIER IDENTIFIED IN FINDING 4 OF THE BOVINE GENERAL ORDER?

- ☒ NO
☐ YES

IF YES, CONFIRM THE FOLLOWING ABOUT YOUR OPERATION:

4.a.

- ☐ BOVINE ANIMALS ARE HOUSED FOR FEWER THAN 24 DAYS PER CALENDAR MONTH.

4.b.

- ☐ ALL MANURE IS EXPORTED

OR

- ☐ CROPLAND THAT HAS MANURE APPLIED IS COVERED UNDER THE IRRIGATED LANDS REGULATORY PROGRAM

4.c.

- ☐ MANURE IS STORED IN A ROOFED STRUCTURE WITH FEATURES TO LIMIT THE ENTRANCE OF PRECIPITATION

OR

- ☐ MANURE IS STORED IN A STORAGE AREA THAT HAS A LOW PERMEABILITY SURFACE AND FEATURES TO CONTROL RUN-ON OF WATER ONTO THE PAD, AND RUN-OFF OF LIQUID FROM THE PAD, AND THROUGHOUT THE WET SEASON WHEN NECESSARY (AND AT A MINIMUM ONE DAY PRIOR TO ANY FORECASTED MAJOR STORM EVENT, WHICH IS ONE INCH OF PRECIPITATION WITHIN 24 HOURS), MANURE IS EITHER REMOVED FROM THE SITE OR COVERED WITH A WEATHERPROOF COVERING SUCH THAT RUNOFF LEAVING THE STORAGE AREA WILL NOT HAVE CONTACTED MANURE.

4.d.

- ☐ COMPOSTING OF MANURE IS CONDUCTED IN A ROOFED STRUCTURE WITH FEATURES TO LIMIT THE ENTRANCE OF PRECIPITATION, AND ON CONCRETE OR AN EQUIVALENT LOW PERMEABILITY SURFACE, AND FREE LIQUIDS ARE NOT RELEASED DURING THE COMPOSTING PROCESS.

OR

- ☐ THE COMPOSTING IS REGULATED SEPARATELY UNDER THE COMPOSTING GENERAL ORDER

Attachment A – Notice of Intent
Waste Discharge Requirements General Order R5-2017-0058
For Confined Bovine Feeding Operations

A-6

4.e.

- ☐ CORRAL RUNOFF IS STORED IN POND(S) THAT ONLY CONTAIN WATER SEASONALLY AND ARE OTHERWISE DRY, AND THAT DO NOT RECEIVE WASTEWATER FROM ANY SOURCE OTHER THAN CORRAL RUNOFF.

G. DO YOU MEET THE CRITERIA FOR A LIMITED POPULATION OPERATION TIER IDENTIFIED IN FINDING 5 OF THE BOVINE GENERAL ORDER?

- ☒ NO
☐ YES

IF YES, CONFIRM THE FOLLOWING ABOUT YOUR OPERATION:

5a.

- ☐ BETWEEN 6 AND 99 ANIMAL UNITS² ARE HOUSED AT YOUR FACILITY

5b.

- ☐ ALL MANURE IS EXPORTED

OR

- ☐ CROPLAND THAT HAS MANURE APPLIED IS COVERED UNDER THE IRRIGATED LANDS REGULATORY PROGRAM

5c.

- ☐ CORRAL RUNOFF IS STORED IN POND(S) THAT ONLY CONTAIN WATER SEASONALLY AND ARE OTHERWISE DRY, AND THAT DO NOT RECEIVE WASTEWATER FROM ANY SOURCE OTHER THAN CORRAL RUNOFF.

5.d.

- ☐ COMPOSTING OF MANURE IS CONDUCTED IN A ROOFED STRUCTURE WITH FEATURES TO LIMIT THE ENTRANCE OF PRECIPITATION, AND ON CONCRETE OR AN EQUIVALENT LOW PERMEABILITY SURFACE, AND FREE LIQUIDS ARE NOT RELEASED DURING THE COMPOSTING PROCESS.

OR

- ☐ THE COMPOSTING IS REGULATED SEPARATELY UNDER THE COMPOSTING GENERAL ORDER

ADDITIONAL INFORMATION

PREVIOUS SUBMITTAL OF REPORT OF WASTE DISCHARGE

HAVE YOU PREVIOUSLY SUBMITTED A REPORT OF WASTE DISCHARGE? _____ YES X NO

IF SO, WHEN WAS IT SUBMITTED? _____

FACILITY NAME USED: _____

Please attach a map of your facility. The map should show the roads adjacent to the confined bovine feeding operation, the locations of creeks, wells, major buildings, animal housing, waste storage facilities, irrigation lines, drainage channels, and the names, APNs, and location of any fields that receive wastewater, manure, or used bedding.

² 1 Animal Unit (AU) equals 1,000 pounds of animal weight

Attachment A – Notice of Intent
Waste Discharge Requirements General Order R5-2017-0058
For Confined Bovine Feeding Operations

A-7

CERTIFICATION

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 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 SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

DocuSigned by:

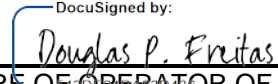

SIGNATURE OF OWNER OF FACILITY

Paul Violich Rev Trust/ Violich Farms Inc.

PRINT OR TYPE NAME

Owner 4/1/2020

TITLE AND DATE

DocuSigned by:


SIGNATURE OF OPERATOR OF FACILITY

Douglas Freitas dba Mission Livestock

PRINT OR TYPE NAME

Operator 4/1/2020

TITLE AND DATE

DRAFT

Attachment A – Notice of Intent
Waste Discharge Requirements General Order R5-2017-0058
For Confined Bovine Feeding Operations

A-8

NOI SUBMISSION INSTRUCTIONS

The NOI for facilities in Fresno, Kern, Kings, Madera, Mariposa, and Tulare counties should be submitted to the California Regional Water Quality Control Board, either as a *.pdf by email to:

centralvalleyfresno@waterboards.ca.gov

or by mail to:

California Regional Water Quality Control Board
Central Valley Region
1685 E Street
Fresno, CA 93706
Attention: Confined Animal Regulatory Unit

The NOI for facilities in all other counties should be submitted either as a *.pdf by email to:

centralvalleysacramento@waterboards.ca.gov

or by mail to:

California Regional Water Quality Control Board
Central Valley Region
11020 Sun Center Drive #200
Rancho Cordova, CA 95670
Attention: Confined Animal Regulatory Unit

When you submit the NOI to the Central Valley Water Board, please be sure to **include a copy of the check** that you send to the State Water Resources Control Board for the fee. A link to the fee schedule can be found here:

https://www.waterboards.ca.gov/resources/fees/water_quality/

Mail the appropriate fee to the State Water Resources Control Board at:

SWRCB Accounting Office
ATTN: Annual Fees
P.O. Box 1888
Sacramento, CA 95812-1888

Attachment A – Notice of Intent
Waste Discharge Requirements General Order R5-2017-0058
For Confined Bovine Feeding Operations

A-9

CALCULATION OF ANIMAL UNITS (AU)

To complete the table below, enter the number of head in column A. Then multiply the number by the appropriate factor and enter the results in column B. For mature cows, multiply the results in column B by an adjustment factor as needed and enter the results in columns C and D. For animals other than mature cows, copy the numbers in column B into column D.

		A	B	C	D
	Factor	Head	AU	Adjustment for Breed	Total AUs
	ANIMAL			AU times 1.0, 1.2, or 1.4	
1.	Milk or Dry Cows	1.0			
2.	Heifers (2 years and older)	0.73			
3.	Heifers (1 year to breeding)	0.73			
4.	Calves (3 months to 1 year)	0.35			
5.	Baby Calves (< 3 months)	0.21			
6.	Beef Cattle	1.2			
7.	Total				

Adjustments for Animal Breed: The AU values above are based on a 1,000-pound AU per Title 40 Code of Federal Regulations, Section 122, and can be used directly for mature Jersey cows. For mature Guernseys, multiply the AU values by 1.2; for mature Holsteins, multiply the AU values by 1.4.

DRAFT

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Planning Commission, Glenn County

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Planning Commission	December 19, 2007	01h 54m			

Item: 4. Conditional Use Permit #2007-002, Greenwood Dairy.

Item: Motion to Approve the aforesaid matter. I move that the Planning Commission adopt the previously certified Confined Animal Facilities Element (CAFE) Program Environmental Impact Report (EIR) and the Statement of Overriding Considerations, which was originally adopted December 6, 2005 by the Glenn County Board of Supervisors. I further move that the Planning Commission find that on the basis of the Initial Study for Conditional Use Permit #2007-002, prepared by the Planning and Public Works Agency, that the Conditional Use Permit, as applied for by Greenwood Dairy, will not have a significant adverse effect on the environment because the codified County standards, Conditions of Approval, and Mitigation Measures (Air Quality, Hazards & Hazardous Materials, Hydrology and Water Quality, Transportation/Traffic, Utilities/Services, and Mandatory Findings of Significance/Human Health) shall reduce impacts to a less than significant level, except for the significant, cumulative, and unavoidable impacts recognized in the Statement of Overriding Considerations for the CAFE EIR. Therefore, a Mitigated Negative Declaration shall be granted with the Findings listed in the Staff Report. I further move that the Planning Commission approve Conditional Use Permit #2007-002, as applied for by Greenwood Dairy, on Assessor's Parcel Number: 024-100-017 et al. and that the Planning Commission has reviewed, analyzed and considered the Mitigated Negative Declaration that was recommended for this project and the Conditional Use Permit to be approved with the Findings listed in the Staff Report and the Mitigation Measures and Conditions of Approval as attached. Moved by William Carriere, seconded by Maurice L. Eakes.

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DRAFT

**PLANNING COMMISSION
COUNTY OF GLENN
WILLOWS, CALIFORNIA**

MINUTES

DATE: Wednesday, December 19, 2007

TIME: 09:00 AM

PLACE: Board of Supervisors Room, Courthouse
526 West Sycamore Street
Willows, CA 95988

* * *

I. ROLL CALL:

Brian Leach, Howard Cawthra, William Carriere, Maurice L. Eakes, and Richard T. Ramsey were present.

Daniel Obermeyer, Director, Mardy Thomas, Senior Planner, Andy Popper, Assistant Planner, and Casey Murray, Assistant Planner, of the Glenn County Planning & Public Works Agency were also present.

II. APPROVAL OF MINUTES:

On a motion from William Carriere, second by Howard Cawthra, it was unanimously voted to Approve the aforesaid matter. Approval of the Minutes of Planning Commission Meeting held on November 21, 2007.

III. PUBLIC HEARING:

1. Variance 2007-002, Gates Machinery Sales, Inc.

(A) CONSIDERATION OF CATEGORICAL EXEMPTION (B)
CONSIDERATION OF VARIANCE

Murray presented the Staff Report.

Murray presented a letter from the Willows Baptist Church which explained their support for the project.

Public comment period opened.

No public comment.

Public comment period closed.

Commissioners discussed project.

On a motion from , second by , it was unanimously voted to .

2. Conditional Use Permit and Reclamation Plan # 94-01 Baldwin Contracting Company, Inc.

(A) DETERMINATION OF COMPLIANCE (B)
CONSIDERATION PERMIT CONDITIONS AMENDMENT

Commissioner Leach noted that he received a legal notice in the mail and is within 300 feet of the proposed project. Commissioner Leach questioned Obermeyer regarding his participation in the hearing.

Obermeyer explained to Commissioner Leach that he needs to abstain and that he cannot participate in any discussions.

Thomas presented the Staff Report.

Thomas explained that this item has come before the Planning Commission as required by Condition of Approval #61, which requires a public review every five years.

Thomas explained that the project is longer within a Williamson Act contract and that the site is actively mined.

Thomas explained that staff has proposed revised Conditions of Approval so that they don't include codified sections of the law. He also explained that changes have been made to the timelines required for submitting cross sections due to stream flow changes and restrictions by the Department of Fish and Game.

Public comment period opened.

No public comment.

Public comment period closed.

Commissioners discussed project.

On a motion from William Carriere, second by Howard Cawthra, it was unanimously voted to Approve the aforesaid matter. I move that the Planning Commission find that Baldwin Contracting Company, Inc. is in compliance with the Conditions of Approval for **Conditional Use Permit #94-01 and Reclamation Plan** and adopt the revised Conditions of Approval as attached..

3. Tentative Parcel Map 2007-011, Frank Enos & Sons, Inc.

(A) RECOMMENDATION OF MITIGATED NEGATIVE
DECLARATION TO BOARD OF SUPERVISORS (B)
RECOMMENDATION OF PROJECT TO BOARD OF
SUPERVISORS

Thomas presented Staff Report and explained that staff is seeking recommendation to the Board of Supervisors for approval to satisfy state laws regarding Williamson Act contracts.

Commissioner Leach questioned staff regarding the reason for splitting the land.

Thomas addressed Commissioner Leach's question.

Obermeyer explained to the Commissioners that staff will support projects like the one proposed because they will allow agricultural use to continue.

Public comment period opened.

Steve Butler, representative of the applicant, stated that they have no problems with the proposed Mitigation Measures or Conditions of Approval.

Public comment period closed.

On a motion from , second by , it was unanimously voted to .

4. Conditional Use Permit #2007-002, Greenwood Dairy

(A) MITIGATED NEGATIVE DECLARATION (B)
CONSIDERATION OF PROJECT

Popper presented Staff Report.

Popper explained that recent information regarding the project was received and has been passed out for review.

Popper explained that Vestra, who is a consultant for the project, has prepared a presentation to be heard during the public comment period.

Public comment period opened.

On behalf of the applicant, Wendy Johnston of Vestra Resources, Inc., provided a presentation consisting of an overview of the project. The presentation included the background of the dairy, the proposed improvements and expansion.

Commissioner Leach explained that the particular dairy has a history of odor problems and questioned Johnston how more cows will create less odor.

Johnston addressed Commissioner Leach's question by explaining that additional cows will increase the economic viability of the facility which will provide more capital for improvements. Johnston also noted that the current operator has made significant improvements since acquiring the facility in 2001 and the incident of complaints has significantly decreased with the exception of the resident to the west.

Mike Carly, a veterinarian from Orland and owner of Mid Valley Vet Hospital, supplied three reasons to support the proposal: (1) out of all his clients, Daniel Vander Dussen does the best job to mitigate flies and odor, (2) the proposed improvements will create greater animal welfare, (3) all odor related impacts cannot be avoided or reduced. Additionally Carly added that the dairy supports economic development of the county.

Donnan Arbuckle spoke in support of the proposal. Arbuckle explained that the facility is a good operation and explained that dairies are good because they supply additional jobs and support the economics of the county.

Mike Rehse, property owner to the west, spoke in opposition of the proposal. Rehse was concerned about how more cows would create less odor. Rehse explained that the proposal would create more odor, dust, fly, and polluted runoff problems in the surrounding areas. Rehse explained that he hasn't made any complaints as of late because his complaints have gone nowhere. Rehse suggested that the Commission consider cutbacks to the herd size instead of allowing the herd size to increase.

Carol Fulton, of the Fulton Reclamation Facility, has property located south and east of the dairy and spoke in opposition of the proposal. Fulton explained that ground water monitoring wells on her property have been contaminated with pollutants from the dairy. Fulton questioned the adequacy of the monitoring wells located on the dairy site. Fulton explained that odors are more noticeable from the Greenwood dairy than other dairies in the area. Fulton was also concerned about the total number of animals on the site and explained that all animals produce odors.

Commissioner Leach asked Johnston if she could address the specific concerns of those opposed to the proposal, which include ground water concerns and number of animals on the site.

Johnston addressed the concerns of those opposed to the proposal. Johnston explained that manure piles would be adequately managed because they have had to comply with all the requirements of the Glenn County Environmental Health Department. Johnston explained that the dairy operator has monitoring wells in crop application areas. Johnston explained that the Regional Water Quality Control Board limits the number of cows at a dairy by the amount of available agricultural land for distribution of waste

water. Johnston explained that three additional ponds will help better achieve this process.

Johnston explained that dead cows will not be visible and will be removed twice a week from the site as required by the Glenn County Environmental Health Department.

Commissioner Cawthra questioned how many dead cows there are in a week.

Daniel Vander Dussen explained that he has about five dead cows per week.

Johnston explained that the number of cows on the site varies depending on how many are milking at any one time.

Commissioner Carriere questioned Johnston whether water is pumped to the north.

Johnston explained that water is pumped to the north and east. Johnston pointed out and explained the piping diagram for the waste water at the facility.

Commissioner Leach questioned Obermeyer regarding any future improvement plans for County Road 27.

Obermeyer explained that the County Road 27 project has been suspended due to insufficient funding.

Johnston added that a condition of approval has been proposed by the Public Works Department for additional right-of-way in front of the dairy facility for future road expansion and to pay fees for road improvements.

Popper stated as a clarification that the applicant has the option of an expanded right-of-way or supplying 50% of the cost for road improvement when the county improves the road. Popper also stated that there will be daily removal of animals between April 1 and October 31 due to high temperatures in the summer. Popper also stated that the applicant will have to pay an impact fee related to the weight of milk leaving the dairy.

Commissioner Cawthra questioned Johnston regarding the operation of the water monitoring program.

Johnston explained that Vestra has monitored the wells on the dairy site for the past two and a half years and all samples go to state certified labs as required by the Regional Water Quality Control Board.

Commissioner Cawthra questioned Johnston regarding the frequency of sending water samples.

Johnston explained that water samples are generally sent quarterly or bi-annually depending on the permit.

Commissioner Cawthra questioned Johnston regarding the action taken when water samples exceed an allowed figure.

Johnston explained the thresholds of waste water which are dependent on the beneficial use of the water and explained actions taken when water samples exceed certain thresholds.

Commissioner Cawthra questioned Johnston regarding the actions taken by the Regional Water Quality Control Board.

Johnston explained the state laws and Regional Water Quality Control Board requirements regarding waste water ponds.

Commissioner Cawthra questioned Johnston regarding nitrate levels from the continuous application of waste water on agricultural land.

Johnston explained nitrate levels as they relate to the agronomic rate or the amount of water the plants can use. Johnston explained that nitrates are found within shallow ground water whenever you have agricultural crops.

Commissioner Carriere questioned Johnston regarding an increase in the amount of waste water with an increase in the number of cows.

Johnston explained that she didn't have the information in front of her but explained that the waste water would increase during phase I.

Popper explained that the Staff Report says that the use of ground water will decrease because waste water from the dairy will be applied to the crops. Popper also explained that nothing will occur at the facility upon approval until the applicant has met all the requirements of the Regional Water Quality Control Board.

Johnston explained anaerobic decomposition methods related to the new waste water treatment ponds and explained that it is a best management practice to reduce odors.

Daniel Vander Dussen, Greenwood Dairy operator, explained management operations of the dairy, mitigation measures to reduce odor and dust, Regional Water Quality Control Board and Environmental Health requirements, and addressed questions and concerns previously brought to the attention of the Commission. Vander Dussen also explained that he wants to maximize the use of the dairy and believes the operation of the dairy will be better than before.

Commissioner Cawthra questioned Vander Dussen regarding odor from manure piles.

Vander Dussen explained the separator operation of the manure. Vander Dussen explained that the odor will come from the flush water versus the manure piles themselves. Vander Dussen explained the flush water and drainage related to the dairy.

Commissioner Cawthra questioned Vander Dussen of whether he lives on the dairy site.

Vander Dussen explained that he lives on the dairy site and explained the successes of the dairy over the last couple of years.

Fulton questioned if anything would prevent any future runoff coming onto her property and if planting trees would prevent airborne odors.

Popper added that the Board of Supervisors has adopted a Statement of Overriding Considerations acknowledging that cumulative impacts from increases in matter and ammonia emissions are unavoidable. Popper explained that impacts from the dairy have been addressed in the past with the adoption of the Confined Animal Facilities Element of the General Plan.

Commissioner Cawthra questioned staff of whether the project meets the requirements of the Confined Animal Facilities Element.

Popper stated that the Staff Report explains how the project meets the requirements of the Confined Animal Facilities Element. Popper also explained that the proposed mitigation measures will meet and go beyond the requirements of the Confined Animal Facilities Element.

Commissioner Cawthra questioned whether the project will meet directional requirements for windblown odors.

Obermeyer explained that some parts of the dairy existed before the new rules were in place. Obermeyer further explained that the project now comes under the new rules which put more restrictions on the dairy. In addition, Obermeyer explained that the Confined Animal Facilities Element explains that some issues can't be addressed, he explained the Right to Farm Ordinance of the county, he explained that the project will use best management practices to reduce impacts, and he explained that the project has safety valves which are in place with the proposed conditions of approval.

Commissioner Leach questioned Obermeyer regarding the status of the Brighton Ranch project located west of Interstate 5.

Obermeyer explained that the Brighton Ranch development is still in progress and an EIR is being prepared. Obermeyer explained that this

development is over one half mile west of the dairy so it is outside the buffer zone identified in the Confined Animals Facilities Element. Obermeyer added that the development may still be subject to occasional odors.

Commissioner Leach questioned Obermeyer regarding dairy generated odors and new development in the surrounding area.

Obermeyer explained that the dairy has been noted as a particularly smelly dairy, but Environmental Health has recognized this and has reviewed the project proposal. Obermeyer explained that the proposal is meant to fix the problems by implementing best management practices to reduce impacts and to make the dairy similar to other dairies. Obermeyer also explained that the dairy would now be more closely monitored with the new rules in place.

Public comment period closed.

Commissioners discussed the project and the positives for its approval.

Commissioner Carriere questioned staff whether water is allowed to leave property.

Popper stated that legally water is not allowed to leave property.

Obermeyer explained that the storm water retention ponds will contain water on site.

Commissioner Carriere questioned staff if the project is to be recommended to the Board of Supervisors.

Obermeyer explained that the project is a Conditional Use Permit and the Planning Commission is the approving body, but the approval of the Conditional Use Permit can be appealed to the Board of Supervisors.

On a motion from William Carriere, second by Maurice L. Eakes, it was unanimously voted to Approve the aforesaid matter. I move that the Planning Commission adopt the previously certified Confined Animal Facilities Element (CAFE) Program Environmental Impact Report (EIR) and the Statement of Overriding Considerations, which was originally adopted December 6, 2005 by the Glenn County Board of Supervisors. I further move that the Planning Commission find that on the basis of the Initial Study for Conditional Use Permit #2007-002, prepared by the Planning and Public Works Agency, that the Conditional Use Permit, as applied for by Greenwood Dairy, will not have a significant adverse effect on the environment because the codified County standards, Conditions of Approval, and Mitigation Measures (Air Quality, Hazards & Hazardous Materials, Hydrology and Water Quality, Transportation/Traffic, Utilities/Services, and Mandatory Findings of Significance/Human Health) shall reduce impacts to a less than significant level, except for the significant, cumulative, and unavoidable impacts recognized in the Statement of Overriding Considerations for the CAFE EIR. Therefore, a Mitigated Negative Declaration shall be granted with the Findings listed in the Staff Report. I further move that the Planning Commission approve

Conditional Use Permit #2007-002, as applied for by Greenwood Dairy, on Assessor's Parcel Number: 024-100-017 et al. and that the Planning Commission has reviewed, analyzed and considered the Mitigated Negative Declaration that was recommended for this project and the Conditional Use Permit to be approved with the Findings listed in the Staff Report and the Mitigation Measures and Conditions of Approval as attached. .

Obermeyer explained that there is a ten day appeal period if anyone wants to appeal the decision of the Planning Commission.

IV. PUBLIC COMMENT:

The Public Comment Period was opened.

There were no public comments.

The Public Comment Period was closed.

V. DISCUSSION:

The Discussion Period was opened.

Obermeyer addresses Planning Commission with a few items: (1) Brett Walker has taken a job with Butte County and his position is in the process of being filled (2) Next Planning Commission meeting to be held on January 16, 2008.

The Discussion Period was closed.

The December 19, 2007 Planning Commission meeting was adjourned.

Respectfully submitted,

DRAFT



**State of California
Regional Water Quality Control Board**

**APPLICATION/REPORT OF WASTE DISCHARGE
GENERAL INFORMATION FORM FOR
WASTE DISCHARGE REQUIREMENTS OR NPDES PERMIT**

I. FACILITY INFORMATION

A. FACILITY:

Name Douglas Freitas dba Mission Livestock
 Address 6569 County Road 27 Mailing Address: P.O. Box 933 Dixon, CA 95620
 City/County/State/Zip Code Orland, CA 95963
 Contact Person Douglas Freitas
 Telephone Number (510) 996-8455 Email freitas.douglas.p@gmail.com

B. FACILITY OWNER:

Name Paul Violich Rev Trust/ Violich Farms Inc./Alcatraz Farming, Inc.
 Address P.O. Box 875
 City/State/Zip Code Kentfield, CA 94914
 Contact Person Julia Violich
 Telephone Number (415)308-1589 Email jviolich@capayfarms.com
 Federal Tax ID 94-241-2203

Owner Type (*Mark one*):

- ☐ Individual ☒ Corporation ☐ Governmental Agency ☐ Partnership
☒ Other: Corporation and Trust

C. FACILITY OPERATOR (*The agency or business, not the person*):

Name Mission Livestock
 Address 6569 County Road 27 Mailing Address: P.O. Box 933 Dixon, CA 95620
 City/State/Zip Code Orland, CA 95963
 Contact Person Douglas Freitas
 Telephone Number (510)996-8455 Email freitas.douglas.p@gmail.com

Operator Type (*Mark one*):

- ☐ Individual ☒ Corporation ☐ Governmental Agency ☐ Partnership
☐ Other: _____

D. OWNER OF THE LANDName Same as Facility Owner

Address _____

City/State/Zip Code _____

Contact Person _____

Telephone Number _____ Email _____

Owner Type (*Mark one*):

- ☐ Individual
 ☒ Corporation
 ☐ Governmental Agency
 ☐ Partnership
☒ Other: _____

E. ADDRESS WHERE LEGAL NOTICE MAY BE SERVEDAddress 156 Ridgewood RoadCity/State/Zip Code Kentfield, CA 94904Contact Person Julia ViolichTelephone Number (415) 308-1589 Email jviolich@capayfarms.com**F. BILLING ADDRESS**Address P.O. Box 875City/State/Zip Code Kentfield, CA 94904Contact Person Julia ViolichTelephone Number (415) 308-1589 Email jviolich@capayfarms.com**II. TYPE OF DISCHARGE***Check Type of Discharge(s) Described in this Application:*☒ **Waste Discharge to Land**☐ **Waste Discharge to Surface Water***Check all that apply:*☒ Animal or Aquacultural Wastewater☐ Land Treatment Unit☒ Animal Waste Solids☐ Landfill (*see instructions*)☐ Biosolids/Residual☐ Mining☐ Cooling Water☐ Storm Water☐ Domestic/ Municipal Wastewater
Treatment and Disposal☐ Surface Impoundment☐ Dredge Material Disposal☐ Waste Pile☐ Hazardous Waste (*see instructions*)☐ Wastewater Reclamation☐ Industrial Process Wastewater☒ Other, *please describe* Feedlot

III. LOCATION OF THE FACILITY*Describe the physical location of the facility:***1. Assessor's Parcel Number(s)**Facility: Portion of 024-100-017-0Discharge Point: See Figure 1 attached**2. Latitude**Facility: 39°40'42.63"NDischarge Point: N/A**3. Longitude**Facility: 122°11'26.43"WDischarge Point: N/A**IV. REASON FOR FILING***Check all that apply:*

- ☐ New Discharge or Facility
- ☒ Change in Design or Operation
- ☐ Change in Quantity/Type of Discharge
- ☒ Changes in Ownership/Operator (see instructions)
- ☐ Waste Discharge Requirements Update or NPDES Permit Reissuance
- ☒ Other: Greenwood Dairy is closing and new feedlot is taking over the facility.

V. CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)Name of Lead Agency Glenn County*Has a public agency determined that the proposed project is exempt from CEQA?*☐ Yes ☒ No*If yes, state the basis for the exemption and the name of the agency supplying the exemption on the line below:*

Has a "Notice of Determination" been filed under CEQA?☐ Yes ☒ No*If Yes, enclose a copy of the CEQA document, Environmental Impact Report (EIR), or Negative Declaration. If No, identify the expected type of CEQA document and expected date of completion.*Expected CEQA Documents: ☐ EIR ☐ Negative DeclarationExpected CEQA Completion Date:

VI. OTHER REQUIRED INFORMATION

Please provide a COMPLETE characterization of your discharge. A complete characterization includes, but is not limited to, design and actual flows, a list of constituents and the discharge concentration of each constituent, a list of other appropriate waste discharge characteristics, a description and schematic drawing of all treatment processes, a description of any Best Management Practices (BMPs) used, and a description of disposal methods.

Also include a site map showing the location of the facility and, if you are submitting this application for an NPDES permit, identify the surface water to which you propose to discharge. Please try to limit your maps to a scale of 1:24,000 (7.5' USGS Quadrangle) or a street map, if more appropriate.

VII. OTHER

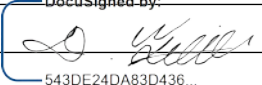
Attach additional sheets to explain any responses which need clarification. List attachments with titles and dates below:

II Type of Discharge section- The feedlot facility will be composting. There will NOT be any land application.

You will be notified by a representative of the RWQCB within 30 days of receipt of your application. The notice will state if your application is complete or if there is additional information you must submit to complete your Application/Report of Waste Discharge, pursuant to Division 7, Section 13260 of the California Water Code.

VIII. CERTIFICATION

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

Print Name Douglas Freitas Title Operator of Mission Livestock
 Signature  Date 4/1/2020
DocuSigned by: 543DE24DA83D436...

FOR OFFICE USE ONLY

Date Form 200 Received:	Letter to Discharger:	Fee Amount Received:	Check #:
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DRAFT



United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for **Glenn County, California**

Mission Livestock



March 10, 2020

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

DRAFT

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.


DRAFT

Custom Soil Resource Report Soil Map (Mission Livestock)




MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)


Soils


 Soil Map Unit Polygons


 Soil Map Unit Lines


 Soil Map Unit Points

Special Point Features

 Blowout

 Borrow Pit


 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water


 Perennial Water

 Rock Outcrop


 Saline Spot

 Sandy Spot

 Severely Eroded Spot


 Sinkhole


 Slide or Slip

 Sodic Spot

 Spoil Area

 Stony Spot


 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

Water Features

 Streams and Canals

Transportation

 Rails


 Interstate Highways

 US Routes

 Major Roads

 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Glenn County, California

Survey Area Data: Version 15, Sep 16, 2019

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 30, 2017—Nov 4, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend (Mission Livestock)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Czr	Cortina very gravelly sandy loam, 0 to 3 percent slopes	91.7	65.6%
Tg	Tehama gravelly loam, 0 to 3 percent slopes, MLRA 17	3.7	2.7%
Tm	Tehama silt loam, 0 to 3 percent slopes, MLRA 17	44.3	31.7%
Totals for Area of Interest		139.8	100.0%

Map Unit Descriptions (Mission Livestock)

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or

landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Glenn County, California

Czr—Cortina very gravelly sandy loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: hd7h
Elevation: 30 to 2,400 feet
Mean annual precipitation: 8 to 20 inches
Mean annual air temperature: 61 to 63 degrees F
Frost-free period: 240 to 270 days
Farmland classification: Not prime farmland

Map Unit Composition

Cortina and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Cortina

Setting

Landform: Alluvial fans
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Gravelly alluvium

Typical profile

H1 - 0 to 8 inches: very gravelly sandy loam
H2 - 8 to 40 inches: stratified very gravelly loamy sand to very gravelly loam
H3 - 40 to 60 inches: stratified very gravelly sand to very gravelly loamy sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: About 40 inches to strongly contrasting textural stratification
Natural drainage class: Somewhat excessively drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Available water storage in profile: Very low (about 2.8 inches)

Interpretive groups

Land capability classification (irrigated): 4s
Land capability classification (nonirrigated): 4s
Hydrologic Soil Group: A
Hydric soil rating: No

Minor Components

Unnamed

Percent of map unit: 5 percent
Hydric soil rating: No

Gravel pits

Percent of map unit: 5 percent

Hydric soil rating: No

Unnamed

Percent of map unit: 5 percent

Landform: Fans

Hydric soil rating: Yes

Tg—Tehama gravelly loam, 0 to 3 percent slopes, MLRA 17

Map Unit Setting

National map unit symbol: 2srjb

Elevation: 100 to 1,970 feet

Mean annual precipitation: 17 to 43 inches

Mean annual air temperature: 61 to 64 degrees F

Frost-free period: 250 to 350 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Tehama and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Tehama

Setting

Landform: Stream terraces, stream terraces

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Riser, tread

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Fine-loamy alluvium derived from metamorphic and sedimentary rock

Typical profile

Ap - 0 to 9 inches: gravelly loam

Bt - 9 to 27 inches: gravelly clay loam

BCtk - 27 to 60 inches: gravelly clay loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 1.28 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Custom Soil Resource Report

Calcium carbonate, maximum in profile: 5 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water storage in profile: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): 2s

Land capability classification (nonirrigated): 3s

Hydrologic Soil Group: C

Hydric soil rating: No

Minor Components

Hillgate

Percent of map unit: 5 percent

Hydric soil rating: No

Arbuckle

Percent of map unit: 5 percent

Hydric soil rating: No

Plaza

Percent of map unit: 5 percent

Hydric soil rating: No

Tm—Tehama silt loam, 0 to 3 percent slopes, MLRA 17

Map Unit Setting

National map unit symbol: 2srj8

Elevation: 100 to 1,180 feet

Mean annual precipitation: 17 to 21 inches

Mean annual air temperature: 63 degrees F

Frost-free period: 180 to 260 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Tehama and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Tehama

Setting

Landform: Terraces

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Fine-silty alluvium derived from metamorphic and sedimentary rock

Typical profile

Ap - 0 to 9 inches: silt loam

BAt - 9 to 12 inches: silty clay loam

Custom Soil Resource Report

Bt1 - 12 to 19 inches: silty clay loam
Bt2 - 19 to 27 inches: silty clay loam
BCtk1 - 27 to 38 inches: silty clay loam
BCtk2 - 38 to 50 inches: silty clay loam
BCtk3 - 50 to 60 inches: silty clay loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.14 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 3 percent
Available water storage in profile: High (about 11.0 inches)

Interpretive groups

Land capability classification (irrigated): 2s
Land capability classification (nonirrigated): 3s
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Arbuckle

Percent of map unit: 5 percent
Hydric soil rating: No

Hillgate

Percent of map unit: 5 percent
Hydric soil rating: No

Plaza

Percent of map unit: 5 percent
Hydric soil rating: No

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Mission 1.5 * Average Precipitation Year
Mar-20

Precip Orland - from WRCC, 2020
ET Durham - from CIMIS, 2020

Notes:
1 - No note 1
2 - Compost Area = 3.0 acres, Application rate = 0.0921 aft/acre/month * compost area) March through October
3 - Freeboard Calculation

24 hour/25 year design storm3.89 inchesFrom NOAA
Total pond surface area25 acresFrom below Input
Runoff area50.5 acresFrom below Input
Runoff factor0.4From below Input
Minimum Required Freeboard Estimate0.59 feetCalculated - Use this Number for Required Freeboard on Line 33

gal/month/acreaft/acre/monthaft/month (20 acres)
10,0000.0307
15,0000.0460
30,0000.0921Garys Estimate0.92October, November and December
33,0000.101310 percent more1.84
36,0000.110520 percent more
37,5000.115125 percent more2.30March through September
39,0000.119730 percent more
45,0000.138150 percent more2.76
Same as gal/day over 20 acres assuming 20 days per month

4- Monthly water application to compost is 10,000 gallons per month per acre of compost = 0.0307 acre-feet per acre of compost per month, excluding Oct thru Feb.

Compost Water Usage0.0000 acre-feet/acre/month Enter 0.0306 if water is being reapplied to compost. If not, enter 0.
Fraction Runoff Area w/Compost1.00

Mission 1.5 * Average Precipitation Year
0.00End of Sept. Pond Balance (aft)

PW=generic

Input
Total Pond Surf. Area25AcresFrom pond design sheets. Used for direct precipitation into ponds
Avg. Pond Surf. Area20AcresFrom pond design sheets. Used for evaporation and infiltration from ponds [(total pond surface area + total pond bottom surface area) / 2]
Runoff Area50.5AcresFrom site plan. Includes berms that drain into the ponds.
Runoff Factor0.4FractionComposite value for runoff areas based on 2016 WMP Update = 0.325 (0.4 used to be conservative).
Precip Factor1.5FractionPer regulation.
Evap Factor1.1FractionSee Terms below - Monthly Evap (use 1 if primary loss is from irrigation, adjust upward if primary loss is from ponds). Eto < Pond Loss < Pan
Irrigated Area0AcresWater is not being land-applied.
Required Freeboard0.59FeetBased on 24 hour/25 year design storm. Additional 2-feet of freeboard is not included here because calculated Maximum Required Storage Volume is compared to Available Storage Volume, which does not include freeboard.
Potential Infiltration Rate0.0014In/hourUse 0 to be conservative. 10-6 cm/sec = 0.0014 inches/hour. 10-6 used because ponds were designed to NRCS standard.

Calcs	Month	Average Monthly Precip. (inches)	Adjusted Monthly Precip. (inches)	Monthly Evap (see Terms) (inches)	Adjusted Evap. (inches)	Beginning Water Volume (aft)	Monthly Precip. In (aft)	Monthly Runoff In (aft)	Monthly Process In (aft)	Monthly Total In (aft)	Potential Monthly Pond Infiltr. Out (aft)	Potential Monthly Pond Evap. Out (aft)	Monthly Irrigation Out (aft)	Monthly Treatment Out (aft)	Monthly Compost Out (aft)	Total Potential Monthly Out (aft)	End of Month Balance (aft)	Freeboard or Design Storm Volume (aft)	Required Pond Storage (aft)	Monthly Discharge Rate For Discharge or Treatment	
																				Monthly Accumulation (aft)	Equivalent Monthly Discharge (gpm)
	10	1.05	1.58	3.33	3.66	0.00	3.28	2.65	0.00	5.93	1.68	6.11	0.00	0.00	0.28	8.07	0.00	14.75	14.75	0	0
	11	2.32	3.48	1.63	1.79	0.00	7.25	5.86	0.00	13.11	1.68	2.99	0.00	0.00	0.00	4.67	8.44	14.75	23.19	8.44	65
	12	3.52	5.28	1.05	1.16	8.44	11.00	8.89	0.00	19.89	1.68	1.93	0.00	0.00	0.00	3.61	24.72	14.75	39.47	16.28	125
	1	4.04	6.06	1.21	1.33	24.72	12.63	10.20	0.00	22.83	1.68	2.22	0.00	0.00	0.00	3.90	43.65	14.75	58.40	18.93	146
	2	3.43	5.15	1.95	2.15	43.65	10.72	8.66	0.00	19.38	1.68	3.58	0.00	0.00	0.00	5.26	57.77	14.75	72.52	14.12	109
	3	2.66	3.99	3.4	3.74	57.77	8.31	6.72	0.00	15.03	1.68	6.23	0.00	0.00	0.28	8.19	64.61	14.75	79.36	6.84	53
	4	1.3	1.95	4.89	5.38	64.61	4.06	3.28	0.00	7.35	1.68	8.97	0.00	0.00	0.28	10.93	61.03	14.75	75.78	0.00	0
	5	0.73	1.10	6.58	7.24	61.03	2.28	1.84	0.00	4.12	1.68	12.06	0.00	0.00	0.28	14.02	51.13	14.75	65.88	0.00	0
	6	0.37	0.56	7.35	8.09	51.13	1.16	0.93	0.00	2.09	1.68	13.48	0.00	0.00	0.28	15.44	37.79	14.75	52.54	0.00	0
	7	0.04	0.06	7.54	8.29	37.79	0.13	0.10	0.00	0.23	1.68	13.82	0.00	0.00	0.28	15.78	22.23	14.75	36.98	0.00	0
	8	0.11	0.17	6.61	7.27	22.23	0.34	0.28	0.00	0.62	1.68	12.12	0.00	0.00	0.28	14.08	8.77	14.75	23.52	0.00	0
	9	0.37	0.56	4.92	5.41	8.77	1.16	0.93	0.00	2.09	1.68	9.02	0.00	0.00	0.28	10.98	0.00	14.75	14.75	0.00	0
	Annual	19.94	29.91	50.46	55.51		62.31	50.35		112.66											

0.00Adjust pond size or irrigated acres until this number = 0
79.36Maximum Required Storage Capacity (aft)
3.97Approximate Pond Depth (Maximum Storage/Average Pond Surface Area)

3,456,943Maximum required storage capacity (cft)

Terms
Average Monthly Precip. - Take from WRRC web site
Monthly Evap. - If irrigating, enter Eto from nearest CIMIS station here and an Evap Factor (if necessary) to estimate pond evap (Adjusted Evap). If not irrigating, you can enter pan/pond directly and use 1 for Evap Factor.
Adjusted Evap. - Adjusted to get pan/pond evaporation
Beginning Water Volume - Assume volume is 0 on October 1 (ie, you want to end up with zero at end of month 9)
Monthly Runoff In - Calculated for runoff area specified and runoff factor.
Monthly Process In - Enter monthly values manually
Monthly Total In - Sum of monthly runoff plus monthly process plus monthly precipitation, actual value
Monthly Pond Infiltration Out - Calculated from infiltration rate entered (if you want to be conservative, use 0). Infiltration is the potential rate assuming water is present.
Monthly Pond Evaporation Out, potential value
Monthly Irrigation Out - Water out for irrigation etc (set up to be based on adjusted pan evap rate and irrigated acres), potential value, zero if precip > Eto
Monthly Total Out - Sum of monthly infiltration, monthly evaporation and irrigation out, potential value.
EOM Balance - Beginning monthly water volume plus Actual Monthly Total In minus Potential Monthly Total Out, Zero if negative

Mission Livestock

Runoff Area

51.9 acres
+ 3.3 acres
- 11.7 acres (covered areas)
+ 7 acres (pond berms)

= 50.5 acres

Note: Pond berm area from design drawings

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0.35 Acres

51.9 Acres

3.3 Acres

Google Earth

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1000 ft

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**Appendix B-1
MONITORING WELL HISTORICAL ANALYTICAL RESULTS**

Well No.	Date	pH (units)	EC (umhos/cm)	Alk. (mg/l)	OH (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (mg/l)	NO3-N (mg/l)	SO4 (mg/l)	TDS (mg/l)	TKN (mg/l)	NH3-N (mg/l)	Total P (mg/l)	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	Fe (mg/l)	Ca (mg/l)	Mg (mg/l)	Mn (mg/l)	K (mg/l)	Na (mg/l)	NH4 (mg/l)
MW-1	1/14/03	7	580	--	--	250	<0.1	22.4	31	48	380	<1	--	--	--	--	--	36	37	--	--	22	--
	12/19/03	6.9	590	--	--	226	<0.1	30.2	--	52.8	360	<1	--	--	--	--	--	40	37	--	--	22	--
	1/6/05	7	570	--	--	268	<0.1	23.1	--	43.2	330	<1	<0.02	--	--	--	--	32	32	--	--	23	<0.02
	8/2/05	6.9	550	209	<2	255	<0.1	24	7	37.4	373	1.6	<0.02	<0.02	<2	<2	110	49	64	2.25	12	12	<0.02
	9/21/06	6.9	558	203	<5	248	<5	24.8	8.91	43.1	393	2.7	0.15	5.24	17	17	153	50	45	3.91	2	24	0.16
	5/31/07	7.20	494	220	<5.0	268	<0.10	20	6.5	36	410	3.6	<0.2	2.6	<2	<2	410	93	190	8.8	8.5	26	<0.2
	12/28/07	7.76	590	203	<1	217	<1	20.4	7.23	37.8	--	--	0.32	--	--	--	--	63	69	--	4	27	0.34
	5/28/08	6.81	461	213	<1	260	<1	20	6.26	38	--	--	2.2	--	--	--	--	68	91	--	17	29	2.33
	12/2/08	6.23	563	280	<1	342	<1	15.9	10.3	32	450	--	0.8	87.8	--	--	--	247	419	--	45	36	0.85
	5/29/09	6.96	676	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/24/09	--	--	--	--	--	--	--	--	--	--	--	DRY	--	--	--	--	--	--	--	--	--	--
	5/12/10	6.94	466	--	--	--	--	--	5.18	--	420	--	0.27	3.46	--	<2	--	--	--	--	5.3	--	0.35
	12/13/10	7.07	415	210	<1	256	<1	18.8	7.10	33.3	422	--	0.05	3.04	--	<2	--	53	64	--	6.4	26	0.05
	6/9/11	6.64	302	--	--	--	--	--	7.14	--	360	--	0.051	4.12	--	<2	--	--	--	--	6.2	--	0.051
	12/2/11	6.88	523	207	<1	252	<1	19.5	6.71	34.8	443	--	<0.02	2.62	--	<2	--	57	70	--	6.3	24	<0.02
	5/16/12	--	--	--	--	--	--	--	--	--	--	--	DRY	--	--	--	--	--	--	--	--	--	--
	12/11/12	--	--	--	--	--	--	--	--	--	--	--	DRY	--	--	--	--	--	--	--	--	--	--
	5/7/13	--	--	--	--	--	--	--	--	--	--	--	DRY	--	--	--	--	--	--	--	--	--	--
	12/10/13	--	--	--	--	--	--	--	--	--	--	--	DRY	--	--	--	--	--	--	--	--	--	--
	5/21/14	--	--	--	--	--	--	--	--	--	--	--	DRY	--	--	--	--	--	--	--	--	--	--
	12/22/14	--	--	--	--	--	--	--	--	--	--	--	DRY	--	--	--	--	--	--	--	--	--	--
	5/29/15	--	--	--	--	--	--	--	--	--	--	--	DRY	--	--	--	--	--	--	--	--	--	--
	12/17/15	--	--	--	--	--	--	--	--	--	--	--	DRY	--	--	--	--	--	--	--	--	--	--
	6/7/16	--	--	--	--	--	--	--	--	--	--	--	DRY	--	--	--	--	--	--	--	--	--	--
	12/7/16	--	--	--	--	--	--	--	--	--	--	--	DRY	--	--	--	--	--	--	--	--	--	--
	5/24/17	6.78	642	--	--	--	--	--	9.23	--	454	--	<0.05	2.32	--	<2	--	--	--	--	16.8	--	<0.06
	12/18/17	--	--	--	--	--	--	--	--	--	--	--	DRY	--	--	--	--	--	--	--	--	--	--
	5/31/18	--	--	--	--	--	--	--	--	--	--	--	DRY	--	--	--	--	--	--	--	--	--	--
	12/13/18	--	--	--	--	--	--	--	--	--	--	--	DRY	--	--	--	--	--	--	--	--	--	--
	5/30/19	7.10	493	--	--	--	--	--	8.51	--	444	--	<0.02	1.47	--	<2	--	--	--	--	13.2	--	<0.0257
	12/17/19	7.60	560	197	<2	240	<2	25.9	9.32	31.8	590	--	<0.02	0.278	--	2	--	42.4	72.2	--	12.0	--	<0.0257
MW-2	1/14/03	7	570	--	--	250	<0.1	24	31	42.2	370	<1	--	--	--	--	--	38	34	--	--	19	--
	12/19/03	6.9	550	--	--	226	<0.1	31.2	--	41.3	320	<1	--	--	--	--	--	40	28	--	--	19	--
	1/6/05	7	550	--	--	256	<0.1	24	--	41	330	<1	<0.02	--	--	--	--	32	29	--	--	20	<0.2
	8/2/05	6.8	499	195	<2	237	<0.1	18.4	<2	31.4	313	2.8	0.03	0.97	<2	<2	256	66	66	3.75	2	16	0.03
	9/21/06	6.9	489	196	<5	240	<5	20.1	6.47	31.8	327	1.6	0.2	2.7	<2	<2	91.2	44	39	1.72	2	20	0.21
	5/31/07	7.06	498	220	<1	264	<1.0	20	7.1	34	410	2	<0.2	2.6	<2	<2	240	68	110	4.3	6	22	<0.2
	12/28/07	7.21	561	217	<1	217	<1	20.4	7.23	37.8	--	--	0.3	--	--	--	--	92	112	--	6	26	0.32
	5/28/08	6.74	475	220	<1	268	<1	21.7	6.26	38	--	--	0.041	--	--	--	--	76	119	--	22	26	0.041
	12/2/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/29/09	7.04	769	--	--	--	--	--	5.30	--	625	--	0.096	6.49	--	<2	--	--	--	--	8	--	0.06
	11/24/09	--	--	--	--	--	--	--	--	--	--	--	DRY	--	--	--	--	--	--	--	--	--	--
	5/12/10	6.72	816	--	--	--	--	--	6.30	--	657	--	<0.15	2.07	--	<2	--	--	--	--	5.2	--	<0.16
	12/13/10	6.88	677	425	<1	519	<1	56	5.14	31.1	612	--	0.05	6.69	--	<2	--	122	169	--	14.2	31	0.05
	6/9/11	6.37	595	--	--	--	--	--	6.99	--	400	--	0.051	2.06	--	<2	--	--	--	--	3.6	--	0.051
	12/13/11	6.70	838	313	<1	382	<1	33.8	7.47	32.2	453	--	0.041	0.38	--	<2	--	61	55	--	3.4	25	0.041
	5/16/12	6.90	828	--	--	--	--	--	5.05	--	499	--	<0.03	0.42	--	4	--	--	--	--	6.8	--	<0.03

Well No.	Date	pH (units)	EC (umhos/cm)	Alk. (mg/l)	OH (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (mg/l)	NO3-N (mg/l)	SO4 (mg/l)	TDS (mg/l)	TKN (mg/l)	NH3-N (mg/l)	Total P (mg/l)	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	Fe (mg/l)	Ca (mg/l)	Mg (mg/l)	Mn (mg/l)	K (mg/l)	Na (mg/l)	NH4 (mg/l)
NW-2	12/11/12												DRY										
	5/7/13	6.62	1,092	--	--	--	--	--	2.64	--	792	--	0.11	0.52	--	2	--	--	--	--	5.1	--	0.15
	12/10/13												DRY										
	5/21/14												DRY										
	12/22/14												DRY										
	5/29/15												DRY										
	12/17/15												DRY										
	6/7/16												DRY										
	12/7/16												DRY										
	5/24/16	6.62	1,499	--	--	--	--	--	8.17	--	937	--	<0.05	0.96	--	<2	--	--	--	--	10.9	--	<0.06
	12/18/17												DRY										
NW-3	5/31/18												DRY										
	12/13/18												DRY										
	5/30/19	6.92	1,334	--	--	--	--	--	15.8	--	855	--	<0.02	1.34	--	<2	--	--	--	--	10.9	--	<0.0257
	12/17/19												DRY										
	1/14/03	7	1,200	--	--	732	<0.1	64	<2	33.1	660	--	--	--	--	--	76	94	--	--	--	37	--
	12/19/03	6.8	1,150	--	--	610	<0.1	67.5	--	18.2	640	--	--	--	--	--	70	110	--	--	--	35	--
	1/6/05	6.8	1,030	--	--	610	<0.1	53.3	--	46.1	560	2.8	1.3	--	--	--	52	59	--	--	--	55	1.38
	8/2/05	6.5	1,193	565	<10	690	<0.1	72.3	<2	28.1	668	9.6	5.16	<0.02	<2	<2	31	78	94	3.22	11	32	7.58
	9/21/06	6.8	1,290	671	<5	819	<5	82.4	0.04	11.6	794	9.8	3.89	2.08	>1,600	>1,600	8.21	89	111	3.99	19	44	4.12
	5/31/07	6.65	3,610	730	<1	841	<10	880	<1.5	35	2200	14	4.2	3.9	17	<2	130	310	250	11	34	450	4.45
	12/28/07	6.78	595	580	<1	265	<1	422	3.3	84.3	--	--	8.23	--	--	--	127	161	--	--	23	178	3.42
	5/28/08	6.71	1,348	722	<1	881	<1	142	0.43	21.2	--	--	--	--	--	--	106	129	--	--	24	64	--
NW-4	12/2/08	7.04	2,044	1,500	<1	1,830	<1	138	0.1	4.99	2,170	--	46.1	16.4	--	--	200	225	--	--	102	104	48.8
	5/29/09	7.35	2,254	--	--	--	--	--	0.07	--	2,890	--	20.2	5.34	--	13	--	--	--	--	48	--	21.4
	11/2																						

[illegible]

Appendix B-1
MONITORING WELL HISTORICAL ANALYTICAL RESULTS

Well No.	Date	pH (units)	EC (umhos/cm)	Alk. (mg/l)	OH (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (mg/l)	NO3-N (mg/l)	SO4 (mg/l)	TDS (mg/l)	TKN (mg/l)	NH3-N (mg/l)	Total P (mg/l)	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	Fe (mg/l)	Ca (mg/l)	Mg (mg/l)	Mn (mg/l)	K (mg/l)	Na (mg/l)	NH4 (mg/l)
MW-4	5/21/14												DRY										
	12/22/14												DRY										
	5/29/15												DRY										
	12/17/15												DRY										
	6/7/16												DRY										
	12/7/16												DRY										
	5/24/17	6.53	1,043	--	--	--	--	--	16.8	--	666	--	<0.05	1.01	--	<2	--	--	--	--	18.7	--	<0.05
	12/18/17												DRY										
	5/31/17												DRY										
	12/13/18												DRY										
MW-5	5/30/19	6.91	916	--	--	--	--	--	11.1	--	640	--	<0.02	6.05	--	30	--	--	--	--	11.7	--	<0.0257
	12/17/19												DRY										
	1/14/03	7	670	--	--	305	<0.1	31.2	34	43.7	370	<1	--	--	--	--	--	42	39	--	--	30	--
	12/19/03	6.9	740	--	--	293	<0.1	39.1	--	52.8	390	<1	--	--	--	--	--	46	43	--	--	39	--
	1/6/05	7	670	--	--	311	<0.1	32	--	47.5	400	<1	<0.02	--	--	--	--	40	37	--	--	41	<0.02
	8/2/05	6.8	704	257	<2	313	<0.1	37.7	8	45.6	484	1.1	<0.02	<0.02	<2	<2	91.6	58	69	1.99	14	34	<0.02
	9/21/06	7	740	287	<5	351	<5	41.3	9.12	47.4	437	0.7	0.12	0.94	<2	<2	--	--	--	--	--	--	--
	5/31/07	7.90	554	260	<5	339	<1.0	27	6.4	38	410	<1.0	<0.2	2.7	<2	<2	35.8	54	50	0.643	4	36	0.13
	12/28/07	7.87	567	236	<1	288	<1	25.8	6.48	39.2	--	--	0.49	--	--	--	--	60	55	--	4	32	0.52
	5/28/08	6.79	502	206	<1	293	<1	24	6.42	35.9	--	--	0.08	--	--	--	--	67	69	--	15	32	0.08
	12/2/08	7.19	515	134	<1	164	<1	22.3	6.09	34.6	410	--	0.05	0.55	--	--	--	52	44	--	5	27	0.05
	5/29/09	7.17	576	--	--	--	--	--	5.15	--	391	--	0.04	0.48	--	<2	--	--	--	--	5	--	0.04
	11/24/09	7.09	570	241	<1	294	<1	22.3	5.36	33.9	390	--	0.211	2.88	--	<2	--	61	58	--	7	28	0.271
	5/12/10	6.82	560	--	--	--	--	--	10.7	--	487	--	0.06	4.72	--	<2	--	--	--	--	5.1	--	0.07
	12/13/10	6.89	473	244	<1	298	<1	27.6	7.78	35.7	45	--	0.031	0.89	--	6	--	50	46	--	4.11	32	0.031
	6/9/11	6.40	619	--	--	--	--	--	7.26	--	401	--	0.04	1.07	--	<2	--	--	--	--	4.0	--	0.041
	12/2/11	6.66	678	277	<1	338	<1	30.6	7.04	38.8	433	--	0.031	0.30	--	<2	--	52	46	--	3.2	33	0.031
	5/16/12	6.97	1,031	--	--	--	--	--	2.39	--	--	--	<0.03	0.12	--	<2	--	--	--	--	3.2	--	<0.03
	12/11/12	6.75	807	293	<1	358	<1	29.3	5.09	33.1	406	--	0.05	0.10	--	<2	--	54	40	--	2.5	32	0.05
	5/7/13	6.75	1,190	--	--	--	--	--	3.80	--	811	--	0.481	1.71	--	30	--	--	--	--	4.4	--	0.62
	12/10/13	6.76	564	244	<1	298	<1	28.5	6.26	36.2	384	--	<0.03	0.09	--	<2	--	49	56	--	2.2	28	<0.03
	5/21/14												DRY										
	12/22/14												DRY										
	5/29/15												DRY										
	12/17/15												DRY										
	6/7/16	6.82	1,142	584	<1	713	<1	68.4	<0.02	38.6	820	--	0.13	2.35	--	>1,600	--	104	81.1	--	5.6	58.3	--
	12/7/16	6.80	751	349	<1	426	<1	37.8	0.041	36.0	439	--	0.17	0.26	--	<2	--	58.3	44.9	--	4.6	39.2	0.22
	5/24/17	6.58	1,118	--	--	--	--	--	15.0	--	612	--	0.18	0.23	--	<2	--	--	--	--	6.0	--	0.23
	12/18/17	6.5	1,068	523	<2	638	<2	51.1	0.08	42.7	680	--	1.83	0.89	--	2	--	99.5	75.6	--	19.6	58.9	2.35
	5/31/18	6.91	1,677	--	--	--	--	--	<0.02	--	1,040	--	3.04	1.55	--	900	--	--	--	--	17.7	--	3.90
	12/13/18												DRY										
	5/30/19	7.07	916	--	--	--	--	--	12.0	--	567	--	0.569	0.824	--	<2	--	--	--	--	8.2	--	0.720
	12/17/19	7.44	880	299	<2	364	<2	55.7	14.3	56.7	561	--	<0.02	1.08	--	4	--	67.4	60.9	--	6.1	38.1	<0.0257
MW-6	12/28/07	7.55	507	193	<1	235	<1	20	6.46	38.2	--	--	0.59	--	--	--	--	56	67	--	4	23	0.62
	5/28/08	6.87	444	206	<1	251	<1	19.8	6.39	19.8	--	--	0.05	--	--	--	--	58	73	--	14	24	0.05
	12/2/08												DRY										
MW-6	5/29/09	7.21	544	--	--	--	--	--	5.66	--	282	--	0.07	1.07	--	2	--	--	--	--	3	--	0.07

Appendix B-1
MONITORING WELL HISTORICAL ANALYTICAL RESULTS

Well No.	Date	pH (units)	EC (umhos/cm)	Alk. (mg/l)	OH (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (mg/l)	NO3-N (mg/l)	SO4 (mg/l)	TDS (mg/l)	TKN (mg/l)	NH3-N (mg/l)	Total P (mg/l)	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	Fe (mg/l)	Ca (mg/l)	Mg (mg/l)	Mn (mg/l)	K (mg/l)	Na (mg/l)	NH4 (mg/l)
MW-6	11/24/09																						
	5/12/10	7.10	475	--	--	--	--	--	6.99	--	375	--	0.20	3.42	--	<2	--	--	--	--	4.4	--	0.26
	12/13/10	6.96	408	209	<1	255	<1	17.9	6.11	33.3	383	--	0.05	3.22	--	<2	--	--	--	--	--	--	--
	6/9/11	6.50	484	--	--	--	--	--	6.67	--	354	--	0.041	3.52	--	<2	--	58	72	--	6.7	24	0.05
	12/13/11	6.96	587	198	<1	241	<1	18.4	7.05	30.5	325	--	0.05	0.18	--	<2	--	--	--	--	4.4	--	0.041
	5/16/12	7.16	521	--	--	--	--	--	6.81	--	337	--	0.05	0.48	--	<2	--	41	40	--	2.5	21	0.05
	12/11/12																						
	5/7/13	6.76	516	--	--	--	--	--	7.58	--	407	--	<0.30	0.98	--	<2	--	--	--	--	3.8	--	<0.39
	12/10/13																						
	5/21/14																						
	12/22/14																						
	5/29/15																						
	12/17/15																						
	6/7/16																						
	12/7/16																						
	5/24/17	6.37	679	--	--	--	--	--	8.37	--	453	--	<0.05	0.97	--	<2	--	--	--	--	11.6	--	<0.06
	12/18/17																						
	5/31/18																						
	12/13/18																						
	5/30/19	7.05	622	--	--	--	--	--	12.4	--	489	--	<0.02	1.82	--	<2	--	--	--	--	11.1	--	<0.0257
	12/17/19	7.25	534	201	<2	245	<2	20.9	7.99	28.3	382	--	<0.02	1.30	--	<2	--	--	--	--	--	--	--
	5/28/08	6.93	561	272	<1	331	<1	318	6.82	35.1	--	--	0.14	--	--	--	--	52.5	64.0	--	12.7	21.6	<0.0257
MW-8	12/2/08																						
	5/29/09	7.44	703															81	94	--	15	27	0.13
	11/24/09																						
	5/12/10	7.13	626	--	--	--	--	--	6.35	--	487	--	<0.13	0.93	--	<2	--	--	--	--	6.2	--	<0.19
	12/13/10	6.97	567	353	<1	431	<1	34.4	6.08	34.9	498	--	0.06	1.36	--	<2	--	--	--	--	--	--	--
	6/9/11	6.43	828	--	--	--	--	--	6.56	--	552	--	0.05	0.73	--	<2	--	80	72	--	3.7	37	0.06
	12/13/11	6.82	762	285	<1	347	<1	25.6	6.62	31.9	438	--	0.041	0.22	--	<2	--	--	--	--	4.4	--	0.051
	5/16/12	6.96	678	--	--	--	--	--	7.10	--	432	--	0.05	0.34	--	<2	--	58	44	--	3.0	22	0.041
	12/11/12																						
	5/7/13	6.79	695	--	--	--	--	--	7.66	--	407	--	<0.3	0.84	--	<2	--	--	--	--	5.6	--	<0.39
	12/10/13																						
	5/21/14																						
	12/22/14																						
	5/29/15																						
	12/17/15																						
	6/7/16																						
	12/7/16																						
	5/24/17	6.74	1,062	--	--	--	--	--	6.81	--	630	--	<0.05	3.40	--	<2	--	--	--	--	22.4	--	<0.06
	12/18/17																						
	5/31/18																						
	12/13/18																						
	5/30/19																						
	12/17/19																						
MW-9	5/28/08	7	479	220	<1	268	<1	23.3	6.77	37	--	--	0.041	--	--	--	--	77	100	--	18	26	0.041
	12/2/08	7.82	524	244	<1	297	<1	21.8	5.88	35.5	405	--	0.42	19	--	--	--	315	634	--	74	36	0.44
	5/29/09	7.14	730	--	--	--	--	--	1.42	--	479	--	0.08	0.91	--	<2	--	--	--	--	5	--	0.08

Appendix B-1
MONITORING WELL HISTORICAL ANALYTICAL RESULTS

Well No.	Date	pH (units)	EC (umhos/cm)	Alk. (mg/l)	OH (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (mg/l)	NO3-N (mg/l)	SO4 (mg/l)	TDS (mg/l)	TKN (mg/l)	NH3-N (mg/l)	Total P (mg/l)	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	Fc (mg/l)	Ca (mg/l)	Mg (mg/l)	Mn (mg/l)	K (mg/l)	Na (mg/l)	NH4 (mg/l)
MW-9	11/24/09												DRY										
	5/12/10	7.31	669	--	--	--	--	--	5.61	--	524	--	0.25	3.05	--	<2	--	--	--	--	4.3	--	0.32
	12/13/10	7.16	534	329	<1	402	<1	27.9	5.02	32.8	455	--	0.041	0.75	--	<2	--	78	55	--	3.81	27	0.011
	6/9/11	6.65	692	--	--	--	--	--	6.02	--	461	--	0.031	1.00	--	<2	--	--	--	--	--	--	0.011
	12/13/11	6.87	791	307	<1	374	<1	26.0	5.94	31.6	484	--	0.041	0.67	--	<2	--	91	100	--	8.7	26	0.011
	5/16/12	6.92	668	--	--	--	--	--	6.35	--	431	--	0.05	0.65	--	<2	--	--	--	--	7.9	--	0.05
	12/11/12												DRY										
	5/7/13	6.71	676	--	--	--	--	--	7.47	--	477	--	<0.3	1.14	--	<2	--	--	--	--	3.5	--	<0.39
	12/10/13												DRY										
	5/21/14												DRY										
	12/22/14												DRY										
	5/29/15												DRY										
	12/17/15												DRY										
	6/7/16												DRY										
	12/7/16												DRY										
	5/24/17	7.08	914	--	--	--	--	--	6.11	--	589	--	<0.05	0.8	--	<2	--	--	--	--	10.1	--	<0.06
	12/18/17	6.9	818	584	<2	469	--	30.0	6.95	32.7	578	--	<0.05	1.8	--	<2	--	265	431	--	38.5	34.1	<0.06
	5/31/18												DRY										
	12/13/18												DRY										
	5/30/19	7.28	886	--	--	--	--	--	6.71	--	592	--	<0.02	0.56	--	<2	--	--	--	--	5.6	--	<0.0257
MW-10	12/17/19	7.44	852	379	<2	462	<2	12.2	6.83	11.3	563	--	<0.02	0.96	--	<2	--	102	79.0	--	9.2	26.9	<0.0257
	5/28/08	6.97	464	208	<1	254	<1	20	11.9	15.2	--	--	0.07	--	--	<2	--	68	90	--	18	26	0.07
	12/2/08												DRY										
	5/29/09	7.86	352	--	--	--	--	--	--	--	--	--	DRY										
	11/24/09												DRY										
	5/12/10	7.00	351	--	--	--	--	--	10.8	--	311	--	0.26	6.04	--	4	--	--	--	--	17.6	--	0.33
	12/13/10	6.91	335	158	<1	193	<1	5.84	5.73	15.0	308	--	<0.15	3.71	--	300	--	--	--	--	15.9	17	<0.16
	6/9/11	6.61	480	--	--	--	--	--	11.3	--	361	--	0.23	6.22	--	1,600	--	76	121	--	18.3	--	0.23
	12/13/11	6.87	517	165	<1	292	<1	10.2	13.8	15.8	359	--	0.16	1.54	--	30	--	60	120	--	22.7	17	0.17
	5/16/12												DRY										
	12/11/12												DRY										
	5/7/13												DRY										
	12/10/13												DRY										
	5/21/14												DRY										
	12/22/14												DRY										
	5/29/15												DRY										
	12/17/15												DRY										
	6/7/16												DRY										
	12/7/16												DRY										
	5/24/17	6.79	333	--	--	--	--	--	10.1	--	334	--	0.17	10.3	--	17	--	--	--	--	90.1	--	0.22
	12/18/17												DRY										
	5/31/18												DRY										
	12/13/18												DRY										
	5/30/19	6.95	667	--	--	--	--	--	16.4	--	504	--	1.35	25.9	--	900	--	--	--	--	75.2	--	1.74
	12/17/19												DRY										
MW-11	5/28/08	6.56	910	463	<1	565	<1	86.2	2.67	86.2	--	--	0.13	--	--	--	--	94	133	--	22	45	0.14
	12/2/08												DRY										
	5/29/09	7.17	1,118	--	--	--	--	--	5.6	--	753	--	0.44	11.7	--	<2	--	--	--	--	35	--	0.47

Appendix B-1
MONITORING WELL HISTORICAL ANALYTICAL RESULTS

Well No.	Date	pH (units)	EC (umhos/cm)	Alk. (mg/l)	OH (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (mg/l)	NO3-N (mg/l)	SO4 (mg/l)	TDS (mg/l)	TKN (mg/l)	NH3-N (mg/l)	Total P (mg/l)	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	Fe (mg/l)	Ca (mg/l)	Mg (mg/l)	Mn (mg/l)	K (mg/l)	Na (mg/l)	NH4 (mg/l)	
MW-11	11/24/09												DRY											
	5/12/10	6.61	1,007	---	---	---	---	---	30.0	---	782	---	0.06	0.51	---	<2	---	---	---	---	10.2	---	0.06	
	12/13/10	6.75	828	469	<1	573	<1	70.2	18.7	44.9	762	---	<0.15	3.34	---	4	---	90	101	---	6.6	43	<0.15	
	6/9/11	6.39	985	---	---	---	---	---	16.7	---	710	---	0.06	0.31	---	17	---	---	---	---	9.3	---	0.06	
	12/13/11	6.61	1,362	435	<1	530	<1	47.3	37.6	41.3	733	---	0.06	0.18	---	2	---	85	96	---	4.8	39	0.06	
	6/12/12	6.42	948	---	---	---	---	---	---	---	1,070	---	2.45	1.73	---	7	---	---	---	---	15.2	---	2.59	
	12/11/12												DRY											
	5/7/13	6.77	1,725	---	---	---	---	---	0.45	---	1,090	---	5.02	3.00	---	30	---	---	---	---	19.0	---	6.45	
	12/10/13												DRY											
	5/21/14												DRY											
	12/22/14												DRY											
	5/29/15												DRY											
	12/17/15												DRY											
	6/7/16												DRY											
	12/7/16												DRY											
	5/24/17	6.62	1,381	---	---	---	---	---	11.0	---	784	---	0.09	5.6	---	13	---	---	---	---	21.7	---	1.28	
	12/18/17												DRY											
	5/31/18												DRY											
	12/13/18												DRY											
	5/30/19	7.25	974	---	---	---	---	---	---	41.1	---	687	---	<0.02	0.408	---	300	---	---	---	---	5.1	---	<0.0257
	12/17/19													DRY										

Notes:

- 1 = Samples not collected due to poor aquifer recovery
- 2 = Samples were collected within six weeks of process wastewater land application that occurred in November 2010
- 3 = MW-11 was abandoned on November 30, 2011

Appendix B-2
IRRIGATION AND DOMESTIC WELL HISTORICAL ANALYTICAL RESULTS

Well No.	Date	Field Parameters			Laboratory Analysis													
		pH (units)	EC (umhos/cm)	Temp (°C)	Alk (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	OH (mg/l)	Cl (mg/l)	NO3-N (mg/l)	SO4 (mg/l)	TDS (mg/l)	NH3 (mg/l)	F. Col (MPN/100ml)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	NH4 (mg/l)
IR-1	12/2/08	7.54	532	15.9	218	265	<1	<1	25	6.54	34.6	354	0.08	---	56	30	19	---
	6/16/09	6.4	677	21	---	---	---	---	---	6.17	---	356	0.09	7	---	---	---	---
	11/24/09	7.35	561	20.2	222	271	<1	<1	25.7	6.06	33.4	360	0.06	2	58	28	19	0.08
	6/2/10	7.72	527	---	---	---	---	---	---	6.72	---	---	---	---	---	---	---	---
	12/16/10	7.29	528	18.2	220	269	<1	<1	26.4	7.31	33.8	375	0.04 ¹	<2	50	30	20	0.04 ¹
	12/18/12	6.90	551	19.0	220	268	<1	<1	25.2	6.91	30.4	342	0.03 ¹	<2	56	30	20	0.04
	12/22/14	7.43	515	20.0	229	279	<1	<1	25.1	6.07	30.7	352	<0.03	<2	61	30	20	<0.04
	12/7/16	6.90	639	17.4	236	288	<1	<1	30.0	6.49	34.5	358	<0.01	<2	61.2	32.3	20.5	<0.01
IR-2	12/13/18	7.46	590	17.8	233	284	<2	<2	28.4	6.36	31.5	358	<0.025	<2	67.8	31.8	21.6	<0.0321
	12/2/08	7.35	569	16.3	251	306	<1	<1	27.3	7.3	40.4	390	0.05	---	60	36	24	---
	6/16/09	7.18	634	22	---	---	---	---	---	6.82	---	403	0.18	2	---	---	---	---
	11/24/09	6.96	623	21.2	256	312	<1	<1	27	6.53	38	391	0.05	<2	62	33	24	0.07
	6/2/10	7.09	580	---	---	---	---	---	---	13.3	---	---	---	---	---	---	---	---
	12/16/10	7.00	644	16.4	270	329	<1	<1	36.6	11.4	42.5	465	<0.03	<2	58	40	30	<0.03
	12/18/12	6.95	699	18.7	295	360	<1	<1	30.8	5.84	33.8	426	0.08	8	60	38	29	0.10
	12/22/14	7.02	642	18.5	302	368	<1	<1	29.6	4.62	33.3	419	<0.03	50	69	38	22	<0.04
IR-3	12/7/16	6.94	691	17.7	281	343	<1	<1	33.8	4.94	35.3	407	<0.01	<2	61.3	35.7	29.3	<0.01
	12/13/18	UNABLE TO SAMPLE-WELL NO LONGER OPERATIONAL																
	12/2/08	7.4	484	15.3	218	266	<1	<1	23.3	4.91	35	343	0.06	---	62	24	21	---
	6/16/09	7.14	620	19.9	---	---	---	---	---	5.09	---	370	0.09	<2	---	---	---	---
	11/24/09	7.5	544	18.8	216	263	<1	<1	24.1	4.66	36.3	350	0.04	<2	62	23	21	0.05
	6/2/10	7.48	534	---	---	---	---	---	---	5.19	---	---	---	---	---	---	---	---
	12/16/10	7.01	526	15.8	214	261	<1	<1	26.7	5.28	45.7	374	<0.03	<2	57	23	23	<0.03
	12/18/12	7.05	553	18.0	216	264	<1	<1	24.3	5.25	33.8	332	0.32	4	62	24	30	0.41
IR-4	12/22/14	7.31	505	17.8	218	266	<1	<1	21.7	6.74	30.8	334	<0.03	<2	66	26	22	<0.04
	12/7/16	7.07	516	15.0	206	252	<1	<1	22.3	4.32	32.2	302	<0.01	<2	57.9	22.1	20.1	<0.01
	12/13/18	UNABLE TO SAMPLE-WELL NO LONGER OPERATIONAL																
	12/2/08	7.29	641	13.4	268	327	<1	<1	33.7	9.92	45.2	465	0.06	---	80	30	28	---
	6/16/09	7.02	678	21.2	---	---	---	---	---	7.88	---	402	0.12	<2	---	---	---	---
	11/24/09	7.28	700	19.5	274	334	<1	<1	32.9	8.58	43.9	441	0.04	<2	80	29	28	0.05
IR-4	6/2/10	7.45	730	---	---	---	---	---	---	11.7	---	---	---	---	---	---	---	---
	12/16/10	6.90	650	17.0	277	337	<1	<1	34.0	10.2	48.4	455	0.05	<2	73	29	30	0.05
	12/18/12	6.95	736	17.5	277	338	<1	<1	34.8	11.1	45.5	443	<0.03	2	83	32	30	<0.04

Appendix B-2
IRRIGATION AND DOMESTIC WELL HISTORICAL ANALYTICAL RESULTS

Well No.	Date	Field Parameters			Laboratory Analysis													
		pH (units)	EC (umhos/cm)	Temp (°C)	Alk (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	OH (mg/l)	Cl (mg/l)	NO3-N (mg/l)	SO4 (mg/l)	TDS (mg/l)	NH3 (mg/l)	F. Col (MPN/100ml)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	NH4 (mg/l)
IR-4	12/22/14	UNABLE TO SAMPLE																
	5/29/15	7.33	929	18.9	361	441	<1	<1	45.3	16.8	58.5	618	<0.03	<2	114	42.7	33.2	<0.04
	12/7/16	6.96	957	15.1	365	445	<1	<1	47.1	16.5	70.8	616	<0.05	<2	116	44.1	34.9	<0.06
	12/13/18	UNABLE TO SAMPLE-WELL NO LONGER OPERATIONAL																
IR-5	12/2/08	7.44	546	16.4	230	280	<1	<1	28.3	8.89	37.2	383	0.06	---	63	31	21	---
	6/16/09	6.86	670	22.4	---	---	---	---	---	7.21	---	376	0.11	<2	---	---	---	---
	11/24/09	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	6/2/10	7.37	584	---	---	---	---	---	---	9.18	---	---	---	---	---	---	---	---
	12/16/10	7.12	562	17.7	239	292	<1	<1	27.1	8.24	35.1	403	0.04	2	58	32	23	0.04
	12/18/12	7.03	641	18.0	256	312	<1	<1	28.9	8.88	37.0	401	0.03	<2	66	33	24	0.04
	12/22/14	7.24	723	18.8	316	385	<1	<1	34.9	9.44	38.6	481	<0.03	2	83	42	29	<0.04
	12/7/16	7.00	850	15.5	341	416	<1	<1	40.6	11.6	47.0	514	<0.01	2	91.6	46.5	29.6	<0.01
IR-6	12/13/18	7.08	842	14.8	334	407	<2	<2	41.2	7.21	44.2	512	<0.025	<2	97.3	45.7	31.1	<0.0321
	5/29/15	UNABLE TO SAMPLE																
	12/17/15	7.73	386	18.5	153	187	<1	<1	9.94	0.96	7.37	193	<0.01	<2	20.5	17.2	26.3	<0.04
	12/18/17	7.4	360	18.4	150	183	<2	<2	11.7	1.50	10.1	212	<0.01	<2	22.5	18.9	24.0	<0.01
Barn	12/13/18	7.94	382	19.9	172	210	<2	<2	14.9	2.40	11.4	231	<0.025	<2	24	18.8	38.7	<0.0321
	12/2/08	7.31	496	16.1	209	255	<1	<1	23.4	6.53	34.5	351	0.8	---	54	30	20	---
	6/16/09	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	11/24/09	7.35	540	21.9	213	260	<1	<1	23.4	6.43	33.6	354	0.04	<2	53	29	20	0.05
	6/2/10	7.38	525	---	---	---	---	---	---	6.96	---	---	---	---	---	---	---	---
	12/16/10	6.98	515	15.5	210	257	<1	<1	23.2	7.47	34.2	357	<0.03	<2	49	29	21	<0.03
	12/18/12	7.37	532	18.2	207	252	<1	<1	23.8	6.98	31.3	336	<0.03	<2	48	27	19	<0.03
	12/22/14	7.34	509	19.6	214	262	<1	<1	23.6	6.65	31.9	332	0.04	<2	53	29	20	0.06
House	12/7/16	7.85	354	19.1	161	197	<1	<1	13.3	1.39	8.8	195	<0.01	<2	21.4	17.9	30.7	<0.01
	12/13/18	6.78	378	18.2	161	196	<2	<2	14.1	2.49	11.8	222	<0.025	<2	25	19.2	34.8	<0.0321
	12/2/08	7.31	523	15.7	208	254	<1	<1	23.8	6.71	33.9	343	0.08	---	54	30	19	---
	6/16/09	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	11/24/09	7	540	23.6	239	292	<1	<1	23.7	0.04	33.9	336	0.05	<2	53	28	19	0.07
	6/2/2010	7.44	538	---	---	---	---	---	---	2.38	---	---	---	---	---	---	---	---
	12/16/10	6.76	520	16.4	211	257	<1	<1	23.4	7.34	34.2	357	0.05	<2	48	29	21	0.05
	12/18/12	7.21	536	14.1	207	252	<1	<1	24.2	7.03	31.2	341	<0.03	<2	52	29	20	<0.04
	12/22/14	7.61	504	16.6	214	261	<1	<	23.7	6.77	31.9	332	<0.03	2	53	29	21	<0.04

Appendix B-2
IRRIGATION AND DOMESTIC WELL HISTORICAL ANALYTICAL RESULTS

Well No.	Date	Field Parameters			Laboratory Analysis													
		pH (units)	EC (umhos/cm)	Temp (°C)	Alk (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	OH (mg/l)	Cl (mg/l)	NO3-N (mg/l)	SO4 (mg/l)	TDS (mg/l)	NH3 (mg/l)	F. Col (MPN/100ml)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	NH4 (mg/l)
House	12/7/16	7.41	630	13.9	212	259	<1	<1	21.9	4.67	21.7	304	<0.01	<2	48.3	27.7	27.4	<0.01
	12/13/18	7.48	718	17.8	289	353	<2	<2	35.4	6.88	36.9	462	<0.025	<2	84.4	39.3	28.9	<0.0321

Notes:

-- = Not analyzed.

J Flag = Constituent detected but concentration below reporting limit.

See Appendix A for a complete list of abbreviations.

DRAFT

Appendix B-3
HISTORICAL GROUNDWATER ELEVATIONS, MONITORING WELLS

Well No.	Date	Top of Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)
MW-1	8/2/2005	221.28	37.44	183.84
	9/21/2006		35.88	185.40
	5/31/2007		42.96	178.32
	12/28/2007		42.82	178.46
	5/28/2008		42.39	178.89
	12/2/2008		46.21	175.07
	5/29/2009		Dry	--
	11/24/2009		Dry	--
	5/12/2010		40.65	180.63
	12/13/2010		42.82	178.46
	6/9/2011		40.72	180.56
	12/2/2011		42.28	179.00
	5/16/2012		Dry	--
	12/11/2012		Dry	--
	5/7/2013		Dry	--
	12/10/2013		Dry	--
	5/21/2014		Dry	--
	12/22/2014		Dry	--
	5/29/2015		Dry	--
	12/17/2015		Dry	--
	6/7/2016		Dry	--
	12/7/2016		Dry	--
	5/24/2017		43.00	178.28
	12/18/2017		Dry	--
	5/31/2018		Dry	--
	12/13/2018		Dry	--
	5/30/2019		43.26	178.02
	12/17/2019		37.09	184.19
MW-2	8/2/2005	214.59	38.74	175.85
	9/21/2006		38.34	176.25
	5/31/2007		42.56	172.03
	12/28/2007		46.06	168.53
	5/28/2008		43.99	170.60
	12/2/2008		Dry	--
	5/29/2009		48.71	165.88
	11/24/2009		Dry	--
	5/12/2010		44.94	169.65
	12/13/2010		47.53	167.06
	6/9/2011		43.25	171.34
	12/13/2011		45.88	168.71
	5/16/2012		48.37	166.22
	12/11/2012		Dry	--
	5/7/2013		48.36	166.23
	12/10/2013		Dry	--
	5/21/2014		Dry	--
	12/22/2014		Dry	--
	5/29/2015		Dry	--
	12/17/2015		Dry	--
	6/7/2016		Dry	--
	12/7/2016		Dry	--
	5/24/2017		48.41	166.18
	12/18/2017		Dry	--
	5/31/2018		Dry	--
	12/13/2018		Dry	--
	5/30/2019		49.31	165.28
	12/17/2019		Dry	--
MW-3 ¹	8/2/2005	215.06	38.88	176.18
	9/21/2006		38.40	176.66
	5/31/2007		42.19	172.87
	12/28/2007		46.10	168.96
	5/28/2008		43.47	171.59
	12/2/2008		43.42	171.64

Appendix B-3
HISTORICAL GROUNDWATER ELEVATIONS, MONITORING WELLS

Well No.	Date	Top of Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)
MW-4	5/29/2009	206.68	48.35	166.71
	11/24/2009		Dry	--
	5/12/2010		44.38	170.68
	12/13/2010		47.00	168.06
	6/9/2011		41.27	173.79
	8/2/2005		32.05	174.63
	9/21/2006		31.82	174.86
	5/31/2007		38.68	168.00
	12/28/2007		41.88	164.80
	5/28/2008		40.35	166.33
	12/2/2008		Dry	--
	5/29/2009		44.90	161.78
	11/24/2009		Dry	--
	5/12/2010		38.25	168.43
	12/13/2010		43.92	162.76
	6/9/2011		39.31	167.37
	12/2/2011		42.75	163.93
	5/16/2012		Dry	--
	12/11/2012		Dry	--
	5/7/2013		Dry	--
	12/10/2013		Dry	--
	5/21/2014		Dry	--
	12/22/2014		Dry	--
	5/29/2015		Dry	--
	12/17/2015		Dry	--
	6/7/2016		Dry	--
	12/7/2016		Dry	--
	5/24/2017		44.87	161.81
	12/18/2017		Dry	--
	5/31/2018		Dry	--
	12/13/2018		Dry	--
	5/30/2019		45.62	161.06
	12/17/2019		Dry	--
MW-5	8/2/2005	228.10	32.15	195.95
	9/21/2006		29.01	199.09
	5/31/2007		38.35	189.75
	12/28/2007		41.88	186.22
	5/28/2008		36.21	191.89
	12/2/2008		35.38	192.72
	5/29/2009		39.17	188.93
	11/24/2009		39.88	188.22
	5/12/2010		31.93	196.17
	12/13/2010		32.78	195.32
	6/9/2011		34.04	194.06
	12/2/2011		32.55	195.55
	5/16/2012		41.32	186.78
	12/11/2012		34.41	193.96
	5/7/2013		35.68	192.42
	12/10/2013		36.45	191.65
	5/21/2014		Dry	--
	12/22/2014		Dry	--
	5/29/2015		Dry	--
	12/17/2015		Dry	--
	6/7/2016		43.80	184.30
	12/7/2016		41.22	186.88
	5/24/2017		31.84	196.26
	12/18/2017		34.45	193.65
	5/31/2018		42.97	185.13
	12/13/2018		Dry	--
	5/30/2019		30.85	197.25
	12/17/2019		32.66	195.44
	8/2/2005		35.54	177.52

Appendix B-3
HISTORICAL GROUNDWATER ELEVATIONS, MONITORING WELLS

Well No.	Date	Top of Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)
MW-6	9/21/2006	213.06	Dry	--
	5/31/2007		Dry	--
	12/28/2007		34.95	178.11
	5/28/2008		40.48	172.58
	12/2/2008		Dry	--
	5/29/2009		45.41	167.65
	11/24/2009		Dry	--
	5/12/2010		40.91	172.15
	12/13/2010		43.55	169.51
	6/9/2011		39.51	173.55
	12/13/2011		42.00	171.06
	5/16/2012		45.13	167.93
	12/11/2013		Dry	--
	5/7/2013		44.96	168.10
	12/10/2013		Dry	--
	5/21/2014		Dry	--
	12/22/2014		Dry	--
	5/29/2015		Dry	--
	12/17/2015		Dry	--
	6/7/2016		Dry	--
	12/7/2016		Dry	--
	5/24/2017		44.36	168.70
	12/18/2017		Dry	--
	5/31/2018		Dry	--
	12/13/2018		Dry	--
	5/30/2019		45.39	167.67
	12/17/2019		46.83	166.23
	5/28/2008		41.98	168.30
	12/2/2008		Dry	--
	5/29/2009		Dry	--
	11/24/2009		Dry	--
MW-8	5/12/2010	210.28	43.58	166.70
	12/13/2010		46.16	164.12
	6/9/2011		41.64	168.64
	12/13/2011		44.35	165.93
	5/16/2012		46.23	164.05
	12/11/2012		Dry	--
	5/7/2013		46.53	163.75
	12/10/2013		Dry	--
	5/21/2014		Dry	--
	12/22/2014		Dry	--
	5/29/2015		Dry	--
	12/17/2015		Dry	--
	6/7/2016		Dry	--
	12/7/2016		Dry	--
	5/24/2017		47.34	162.94
	12/18/2017		Dry	--
	5/31/2018		Dry	--
	12/13/2018		Dry	--
	5/30/2019		Dry	--
	12/17/2019		Dry	--
	5/28/2008		40.70	166.60
	12/2/2008		49.17	158.13
	5/29/2009		44.44	162.86
	11/24/2009		Dry	--
MW-9	5/12/2010	207.30	42.92	164.38
	12/13/2010		45.73	161.57
	6/9/2011		40.74	166.56
	12/13/2011		43.46	163.84
	5/16/2012		44.85	162.45
	12/11/2012		Dry	--
	5/7/2013		44.56	162.74

Appendix B-3
HISTORICAL GROUNDWATER ELEVATIONS, MONITORING WELLS

Well No.	Date	Top of Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)
MW-9	12/10/2013	207.30	Dry	--
	5/21/2014		Dry	--
	12/22/2014		Dry	--
	5/29/2015		Dry	--
	12/17/2015		Dry	--
	6/7/2016		Dry	--
	12/7/2016		Dry	--
	5/24/2017		47.55	159.75
	12/18/2017		50.74	156.56
	5/31/2018		Dry	--
	12/13/2018		Dry	--
	5/30/2019		48.48	158.82
	12/17/2019		49.41	157.89
	5/28/2008		39.29	170.23
MW-10	12/2/2008	209.52	Dry	--
	5/29/2009		44.58	164.94
	11/24/2009		Dry	--
	5/12/2010		40.25	169.27
	12/13/2010		43.91	165.61
	6/9/2011		38.95	170.57
	12/13/2011		42.34	167.18
	5/16/2012		Dry	--
	12/11/2012		Dry	--
	5/7/2013		Dry	--
	12/10/2013		Dry	--
	5/21/2014		Dry	--
	12/22/2014		Dry	--
	5/29/2015		Dry	--
	12/17/2015		Dry	--
	6/7/2016		Dry	--
	12/7/2016		Dry	--
	5/24/2017		44.61	164.91
	12/18/2017		Dry	--
	5/31/2018		Dry	--
	12/13/2018		Dry	--
	5/30/2019		45.12	164.40
	12/17/2019		Dry	--
MW-11	5/28/2008	215.93	44.03	171.90
	12/2/2008		Dry	--
	5/29/2009		48.02	167.91
	11/24/2009		Dry	--
	5/12/2010		43.82	172.11
	12/13/2010		47.06	168.87
	6/9/2011		42.90	173.03
	12/13/2011		45.38	170.55
	5/16/2012		45.12	170.81
	6/12/2012		45.24	170.69
	12/11/2012		Dry	--
	5/7/2013		46.47	169.46
	12/10/2013		Dry	--
	5/21/2014		Dry	--
	12/22/2014		Dry	--
	5/29/2015		Dry	--
	12/17/2015		Dry	--
	6/7/2016		Dry	--
	12/7/2016		Dry	--
	5/24/2017		46.35	169.58
	12/18/2017		Dry	--
	5/31/2017		Dry	--
	12/13/2018		Dry	--
	5/30/2019		47.99	167.94
	12/17/2019		Dry	--

Appendix B-3 HISTORICAL GROUNDWATER ELEVATIONS, MONITORING WELLS				
Well No.	Date	Top of Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)
¹ = Monitoring Well MW-3 abandoned on November 30, 2011				

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PRELIMINARY REPORT

To:

VIOLICH FARMS, INC.
PO BOX 875
KENTFIELD CA, 94914-0875
JULIA VIOLICH

BUYER: VIOLICH FARMS, INC.

Title Officer:

TITLE OFFICER: DEBBIE FALTESEK
TIMIOS TITLE
250 W. SYCAMORE ST.
WILLOWS, CA 95988
ESCROW OFFICER: RON CAMPBELL
PHONE: (530) 934-3338

ESCROW NO: 139146

Property Address:

APN# 024-090-045-000 & 024-100-017-000
ORLAND, CA, 95963

Title No:

139145

In response to the above referenced application for a policy of title insurance, this company hereby reports that it is prepared to issue, or cause to be issued, as of the date hereof, a policy or policies of title insurance describing the land and the estate or interest therein hereinafter set forth, insuring against loss which may be sustained by reason of any defect, lien or encumbrance not shown or referred to as an exception below or not excluded from coverage pursuant to the printed Schedules, Conditions and Stipulations of said Policy Forms.

The printed Exceptions and Exclusions from the coverage and Limitations on Covered Risks of said policy or policies are set forth in Exhibit A attached. The policy to be issued may contain an arbitration clause. When the Amount of Insurance is less than that set forth in the arbitration clause, all arbitrable matters shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the parties. Limitations on Covered Risks applicable to the CLTA and ALTA Homeowner's Policies of Title Insurance which establish a Deductible Amount and a Maximum Dollar Limit of Liability for certain coverages are also set forth in Exhibit A. Copies of the policy forms should be read. They are available from the office which issued this report.

Please read the exceptions shown or referred to below and the exceptions and exclusions set forth in Exhibit A of this report carefully. The exceptions and exclusions are meant to provide you with notice of matters which are not covered under the terms of the title insurance policy and should be carefully considered.

It is important to note that this preliminary report is not a written representation as to the condition of title and may not list all liens, defects, and encumbrances affecting title to the land.

This report (and any supplements or amendments hereto) is issued solely for the purpose of facilitating the issuance of a policy of title insurance and no liability is assumed hereby. If it is desired that liability be assumed prior to the issuance of a policy of title insurance, a binder or commitment should be requested.

The form of Policy of title insurance contemplated by the report is:

ALTA STANDARD OWNERS POLICY

ALTA LOAN POLICY

Issued by: FIRST AMERICAN TITLE INSURANCE COMPANY

Dated as of: APRIL 09, 2018 at 8:00 a.m.

The Estate or Interest in the land hereinafter described or referred to covered by this report is:

Fee Simple as to Parcel One and Parcel Two; and an Easement as to Parcel Two-A

Title to said estate of interest at the date hereof is vested in:

DANNY VANDER DUSSEN AND SOPHIA VANDER DUSSEN, HUSBAND AND WIFE, AS JOINT TENANTS

At the date hereof exceptions to coverage in addition to the printed exceptions and exclusions contained in said policy form would be as follows:

THE FOLLOWING EXCEPTIONS AFFECT PARCEL ONE:

1. PROPERTY TAXES, INCLUDING ANY ASSESSMENTS COLLECTED WITH TAXES, TO BE LEVIED FOR THE FISCAL YEAR 2018-2019 THAT ARE A LIEN NOT YET DUE.
2. THE LIEN OF SUPPLEMENTAL OR ESCAPED ASSESSMENTS OF PROPERTY TAXES, IF ANY, MADE PURSUANT TO THE PROVISIONS OF PART 0.5, CHAPTER 3.5 OR PART 2, CHAPTER 3, ARTICLES 3 AND 4 RESPECTIVELY (COMMENCING WITH SECTION 75) OF THE REVENUE AND TAXATION CODE OF THE STATE OF CALIFORNIA AS A RESULT OF THE TRANSFER OF TITLE TO THE VESTEE NAMED IN SCHEDULE A; OR AS A RESULT OF CHANGES IN OWNERSHIP OR NEW CONSTRUCTION OCCURRING PRIOR TO THE DATE OF THE POLICY.
3. THE LAND HEREIN DESCRIBED LIES WITHIN THE BOUNDARIES OF THE ORLAND-ARTOIS WATER DISTRICT AND IS SUBJECT TO ALL TAXES, ASSESSMENTS AND OBLIGATIONS THEREOF.

PRESENTLY THE DISTRICT HAS AN INDEBTEDNESS IN FAVOR OF THE UNITED STATES GOVERNMENT (CONTRACT NO. 14-06-200-8382A) OF \$816.92 PER ACRE AS OF DECEMBER 1, 1988 WHICH WILL BE PAID AT THE RATE OF \$20.43 PER ACRE FOR 40 YEARS PAYABLE IN 80 SUCCESSIVE EQUAL SEMI-ANNUAL INSTALLMENTS BEGINNING FEBRUARY 1, 1993.

NOTE: THE DISTRICT REQUEST THAT ANY BUYER/PURCHASER CONTACT THE DISTRICT IN REGARDS TO THE DISTRIBUTION OF THE WATER, PHONE: 530-865-4304, FAX 530-865-8497

4. RIGHTS OF THE PUBLIC IN AND TO SO MUCH OF THE HEREIN DESCRIBED LAND AS LIES WITHIN THE BOUNDARIES OF COUNTY ROAD 25 AND COUNTY ROAD 27.
5. RESERVATION CONTAINED IN THE DEED FROM CENTRAL PACIFIC RAILROAD COMPANY TO HANS H. REHSE, DATED JANUARY 14, 1884 IN BOOK 2 OF DEEDS AT PAGE 468, COLUSA COUNTY RECORDS. RESERVING HOWEVER, ALL CLAIM OF THE UNITED STATES TO THE SAME AS MINERAL LAND.
6. RESERVATION CONTAINED IN DEED FROM CENTRAL PACIFIC RAILROAD COMPANY TO HANS HINRICH REHSE, DATED JANUARY 14, 1884 AND RECORDED JANUARY 28, 1883 IN BOOK 2 OF DEEDS AT PAGE 471, COLUSA COUNTY RECORDS. RESERVING HOWEVER, ALL CLAIM OF THE UNITED STATES TO THE SAME AS MINERAL LAND.
7. RIGHT-OF-WAY DEED EXECUTED BY H. HENRY REHSE TO THE SACRAMENTO VALLEY POWER COMPANY, A CORPORATION, DATED NOVEMBER 24, 1911 AND RECORDED JULY 8, 1920 IN BOOK 70 OF DEEDS, AT PAGE 385.
8. AN EASEMENT 30 FEET IN WIDTH FOR IRRIGATION AND INCIDENTAL PURPOSES GRANTED TO VERNON L. REHSE, ET AL. IN THE DOCUMENT RECORDED JUNE 7, 1976 IN BOOK 600 OF OFFICIAL RECORDS, AT PAGE 54, UPON THE TERMS AND CONDITIONS CONTAINED THEREIN.

THE EFFECT OF A QUITCLAIM DEED RECORDED SEPTEMBER 3, 1996 AS GLENN COUNTY RECORDER.S INSTRUMENT NO. 96-4467 OF OFFICIAL RECORDS, WHICH RELEASES THE RIGHTS OF THE HEREIN DESCRIBED PROPERTY TO USE SAID EASEMENT.

9. THE TERMS, CONDITIONS AND PROVISIONS AS CONTAINED IN THE DOCUMENT ENTITLED, .CONTRACT AND GRANT OF EASEMENT, EXECUTED BY AND BETWEEN EMMA A. REHSE, ET AL AND THE UNITED STATES OF AMERICA AND ITS ASSIGNS, RECORDED DECEMBER 3, 1979 IN BOOK 656 OF OFFICIAL RECORDS, AT PAGE 265
10. AN UNRECORDED RIGHT OF WAY FOR UNDERGROUND PIPELINES AND INCIDENTAL PURPOSES AS DISCLOSED BY THAT CERTAIN INSTRUMENT EXECUTED BY AND BETWEEN ENERGY PRODUCTION & SALES AND HORIZON OPERATING COMPANY, RECORDED SEPTEMBER 9, 1987 IN BOOK 825 OF OFFICIAL RECORDS, AT PAGE 330.

11. AN AGRICULTURAL STATEMENT OF ACKNOWLEDGEMENT EXECUTED BY PIETER J. VERBOOM, DATED AUGUST 22,, 1997 AND RECORDED SEPTEMBER 4, 1997 AS GLENN COUNTY RECORDER.S INSTRUMENT NO. 97-4301.
12. AN AGRICULTURAL STATEMENT OF ACKNOWLEDGEMENT EXECUTED BY CHARLES A. FULTON AND CAROL A. FULTON, DATED OCTOBER 27, 1998 AND RECORDED OCTOBER 27, 1998 AS GLENN COUNTY RECORDER.S INSTRUMENT NO. 98-6191.
13. AN EASEMENT FOR POLES, CABLES, ETC. FOR THE DISTRIBUTION OF ELECTRIC ENERGY AND COMMUNICATION PURPOSES AND INCIDENTAL PURPOSES AS CONVEYED TO PACIFIC GAS AND ELECTRIC COMPANY IN THE DOCUMENT RECORDED NOVEMBER 17, 2000 AS INSTRUMENT NO. 2000-6003 OF OFFICIAL RECORDS.
14. A DEED OF TRUST TO SECURE AN INDEBTEDNESS IN THE ORIGINAL AMOUNT SHOWN BELOW.
AMOUNT: \$3,272,000.00
DATED: DECEMBER 22, 2010
TRUSTOR: WILLEM GRIFFIOEN AND ELLIE GRIFFIOEN, TRUSTEES OF THE WILLEM GRIFFIOEN AND ELLIE GRIFFIOEN 1990 TRUSTS, DATED MAY 9, 1990 AS TO PARCEL ONE AND ONE-A; PRADO VIEW INVESTMENT COMPANY, L.P., A CALIFORNIA LIMITED PARTNERSHIP, AS TO PARCELS TWO AND THREE; DANNY VANDER DUSSEN AND SOPHIA VANDER DUSSEN, HUSBAND AND WIFE AS TO PARCELS FOUR AND FIVE
TRUSTEE: NORTHERN CALIFORNIA FEDERAL LAND BANK ASSOCIATION, FLCA
BENEFICIARY: NORTHERN CALIFORNIA FEDERAL LAND BANK ASSOCIATION, FLCA
RECORDED: JANUARY 25, 2011 AS INSTRUMENT NO. 2011-0371 OF OFFICIAL RECORDS.

(AFFECTS THIS AND OTHER PROPERTY)

A DOCUMENT RECORDED JUNE 5, 2013 AS INSTRUMENT NO. 2013-2426 OF OFFICIAL RECORDS PROVIDES THAT THE DEED OF TRUST OR THE OBLIGATION SECURED THEREBY HAS BEEN MODIFIED.

15. THE TERMS, CONDITIONS AND PROVISIONS AS CONTAINED IN THE DOCUMENT ENTITLED, RIGHT OF FIRST REFUSAL AGREEMENT, BY AND BETWEEN DANIEL VANDER DUSSEN AND SOPHIA VANDER DUSSEN, INDIVIDUALLY AND AS A PARTNERSHIP ENTITY DBA GREENWOOD DAIRY, A CALIFORNIA LIMITED PARTNERSHIP, AND VIOLICH FARMS, INC., A CALIFORNIA CORPORATION, DATED AUGUST 15, 2016 AND RECORDED OCTOBER 28, 2016 AS INSTRUMENT NO. 2016-4621 OF OFFICIAL RECORDS.

REFERENCE IS MADE TO SAID DOCUMENT FOR FULL PARTICULARS.

16. THE RIGHTS AND CLAIMS OF PARTIES IN POSSESSION
17. WATER RIGHTS, CLAIMS OR TITLE TO WATER, WHETHER OR NOT THE MATTERS ARE SHOWN BY THE PUBLIC RECORDS.
18. EVIDENCE MUST BE PROVIDED THAT THERE ARE NO COMMITMENT STATEMENTS IN EFFECT UNDER CIVIL CODE SECTION 850 ET SEQ. WITH RESPECT TO THE PROPERTY.

IN ORDER TO REMOVE THIS STATEMENT, THE LANDOWNER WILL NEED TO PROVIDE US WITH AN AFFIDAVIT STATING THAT THEY ARE NOT AWARE OF ANY RELEASE REPORTS OR COMMITMENT STATEMENTS WHICH HAVE BEEN ISSUED UNDER THIS STATUTE WITH RESPECT TO THE PROPERTY.

THE FOLLOWING EXCEPTIONS AFFECT PARCEL TWO:

19. PROPERTY TAXES, INCLUDING ANY ASSESSMENTS COLLECTED WITH TAXES, TO BE LEVIED FOR THE FISCAL YEAR 2018-2019 THAT ARE A LIEN NOT YET DUE.
20. THE LIEN OF SUPPLEMENTAL OR ESCAPED ASSESSMENTS OF PROPERTY TAXES, IF ANY, MADE PURSUANT TO THE PROVISIONS OF PART 0.5, CHAPTER 3.5 OR PART 2, CHAPTER 3, ARTICLES 3 AND 4 RESPECTIVELY (COMMENCING WITH SECTION 75) OF THE REVENUE AND TAXATION CODE OF THE STATE OF CALIFORNIA AS A RESULT OF THE TRANSFER OF TITLE TO THE VESTEE NAMED IN SCHEDULE A; OR AS A RESULT OF CHANGES IN OWNERSHIP OR NEW CONSTRUCTION OCCURRING PRIOR TO THE DATE OF THE POLICY.

21. RIGHTS OF THE PUBLIC IN AND TO SO MUCH OF THE HEREIN DESCRIBED LAND AS LIES WITHIN THE BOUNDARIES OF COUNTY ROAD 27.
22. AN EASEMENT AND RIGHT OF WAY FOR IRRIGATION PIPELINE AND INCIDENTAL PURPOSES AFFECTING A STRIP OF LAND 10 FEET WIDE AND INCIDENTAL PURPOSES GRANTED TO AA PRODUCTION SERVICES, INC., RECORDED OCTOBER 15, 2003 AS INSTRUMENT NO. 2003-7310 OF OFFICIAL RECORDS.
23. AN EASEMENT AND RIGHT OF WAY FOR IRRIGATION PIPELINE AND INCIDENTAL PURPOSES AFFECTING A STRIP OF LAND 10 FEET WIDE AND INCIDENTAL PURPOSES GRANTED TO AA PRODUCTION SERVICES, INC., RECORDED OCTOBER 15, 2003 AS INSTRUMENT NO. 2003-7311 OF OFFICIAL RECORDS.
24. AN EASEMENT FOR PUBLIC ROAD AND PUBLIC UTILITY AND INCIDENTAL PURPOSES GRANTED TO THE COUNTY OF GLENN, A POLITICAL SUBDIVISION OF THE STATE OF CALIFORNIA, IN THE DOCUMENT RECORDED SEPTEMBER 19, 2008 AS INSTRUMENT NO. 2008-4638 OF OFFICIAL RECORDS.
25. THE TERMS, CONDITIONS AND PROVISIONS AS CONTAINED IN THE DOCUMENT ENTITLED, RIGHT OF FIRST REFUSAL AGREEMENT, BY AND BETWEEN DANIEL VANDER DUSSEN AND SOPHIA VANDER DUSSEN, INDIVIDUALLY AND AS A PARTNERSHIP ENTITY DBA GREENWOOD DAIRY, A CALIFORNIA LIMITED PARTNERSHIP, AND VIOLICH FARMS, INC., A CALIFORNIA CORPORATION, DATED AUGUST 15, 2016 AND RECORDED OCTOBER 28, 2016 AS INSTRUMENT NO. 2016-4621 OF OFFICIAL RECORDS.

REFERENCE IS MADE TO SAID DOCUMENT FOR FULL PARTICULARS.

26. THERE APPEAR TO BE NO DEED OF TRUST OR MORTGAGE(S) FOUND OF RECORD ON SAID PROPERTY. IF THERE IS ANY INFORMATION THAT STATES OTHERWISE, PLEASE CONTACT THE CLOSING OFFICER IMMEDIATELY. WE WILL REQUIRE AN AFFIDAVIT OF DEBTS AND LIENS TO BE EXECUTED BY THE PARTIES LISTED ON SCHEDULE A OF THIS COMMITMENT.

THE FOLLOWING EXCEPTIONS AFFECT BOTH PARCELS:

27. THE POLICY LIABILITY CONTEMPLATED BY THIS TRANSACTION EXCEEDS OUR LOCAL LIMIT. UNDERWRITER APPROVAL MUST BE OBTAINED FROM THE HOME OFFICE OR REGIONAL OFFICE PRIOR TO CLOSING. PLEASE CONTACT THE TITLE OFFICER IN ADVANCE OF THE CLOSING DATE TO DISCUSS THE SPECIFICS OF THE PROPOSED TRANSACTION, INCLUDING IDENTITY OF PROPOSED INSURED(S), ENDORSEMENT REQUIREMENTS, AND EXCEPTIONS WHICH ARE TO BE ELIMINATED.
28. PRIOR TO THE ISSUANCE OF ANY POLICY OF TITLE INSURANCE, THE COMPANY WILL REQUIRE:
WITH RESPECT TO VIOLICH FARMS, INC., A CORPORATION:
 - A. A CERTIFICATE OF GOOD STANDING OF RECENT DATE ISSUED BY THE SECRETARY OF STATE OF THE CORPORATION'S STATE OF DOMICILE.
 - B. A CERTIFIED COPY OF A RESOLUTION OF THE BOARD OF DIRECTORS AUTHORIZING THE CONTEMPLATED TRANSACTION AND DESIGNATING WHICH CORPORATE OFFICERS SHALL HAVE THE POWER TO EXECUTE ON BEHALF OF THE CORPORATION.
 - C. OTHER REQUIREMENTS WHICH THE COMPANY MAY IMPOSE FOLLOWING ITS REVIEW OF THE MATERIAL REQUIRED HEREIN AND OTHER INFORMATION WHICH THE COMPANY MAY REQUIRE.

NOTICE

Section 12413.1 of the California Insurance Code, effective January 1, 1990, requires that any title insurance company, underwritten title company, or controlled escrow company handling funds in an escrow or sub-escrow capacity, wait a specified number of days after depositing funds, before recording any documents in connection with the transaction or disbursing funds. This statute allows for funds deposited by wire transfer to be disbursed the same day as deposit. In the case of cashier's checks or certified checks, funds may be disbursed the next day after deposit. In order to avoid unnecessary delays of three to seven days, or more, please use wire transfer, cashier's checks, or certified checks whenever possible.

NOTES:

- A. ACCORDING TO THE PUBLIC RECORDS, THERE HAS BEEN NO CONVEYANCE OF THE LAND WITHIN A PERIOD OF TWENTY-FOUR MONTHS PRIOR TO THE DATE OF THIS REPORT, EXCEPT AS FOLLOWS:
- GRANT DEED EXECUTED BY PRADO VIEW INVESTMENTS, LP GRANTING TO DANIEL VANDER DUSSEN & SOPHIA VANDER DUSSEN, AS HUSBAND AND WIFE, RECORDED OCTOBER 18, 2017 AS GLENN COUNTY RECORDER'S INSTRUMENT NO. 2017-4349 OF OFFICIAL RECORDS.
- B. NONE OF THE ITEMS SHOWN IN THIS REPORT WILL CAUSE THE COMPANY TO DECLINE TO ATTACH CLTA ENDORSEMENT FORM 100 TO AN ALTA POLICY, WHEN ISSUED.
- C. THERE IS LOCATED ON SAID LAND A SINGLE FAMILY RESIDENCE KNOWN AS 6540 COUNTY ROAD 27, IN THE UNINCORPORATED AREA OF THE COUNTY OF GLENN, STATE OF CALIFORNIA.
- D. THE POLICY TO BE ISSUED MAY CONTAIN AN ARBITRATION CLAUSE. WHEN THE AMOUNT OF INSURANCE IS LESS THAN THE CERTAIN DOLLAR AMOUNT SET FORTH IN ANY APPLICABLE ARBITRATION CLAUSE, ALL ARBITRABLE MATTERS SHALL BE ARBITRATED AT THE OPTION OF EITHER THE COMPANY OR THE INSURED AS THE EXCLUSIVE REMEDY OF THE PARTIES. IF YOU DESIRE TO REVIEW THE TERMS OF THE POLICY, INCLUDING ANY ARBITRATION CLAUSE THAT MAY BE INCLUDED, CONTACT THE OFFICE THAT ISSUED THIS COMMITMENT OR REPORT TO OBTAIN A SAMPLE OF THE POLICY JACKET FOR THE POLICY THAT IS TO BE ISSUED IN CONNECTION WITH YOUR TRANSACTION.
- E. CANCELLATION FEES

NOTE: PURSUANT TO RULE NO. 2 OF BULLETIN NO. NS-35 OF CALIFORNIA STATE INSURANCE COMMISSIONER THIS REPORT IS ISSUED SUBJECT TO A MINIMUM FEE OF \$400.00

- F. NOTE TAXES FOR PRORATION PURPOSES ONLY FOR THE FISCAL YEAR 2017-2018.

FIRST INSTALLMENT:	\$42,517.15	PAID ON 10/31/2017
SECOND INSTALLMENT:	\$42,517.15	PAID ON 02/05/2018
TAX RATE AREA:	079005	
APN:	024-100-017-000	

FIRST INSTALLMENT:	\$1,776.52	PAID ON 10/13/2017
SECOND INSTALLMENT:	\$1,776.52	PAID ON 01/16/2018
TAX RATE AREA:	079005	
ASSESSMENT NO.:	024-090-045-000	

LEGAL DESCRIPTION

ALL THAT CERTAIN REAL PROPERTY SITUATED IN THE UNINCORPORATED AREA OF THE COUNTY OF GLENN STATE OF CALIFORNIA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

PARCEL ONE:

All that portion of the North one-half of Section 15, Township 21 North, Range 3 West, M.D.M., lying East of the Easterly boundary of the Southern Pacific Railroad right-of-way in the unincorporated area of Glenn County, California.

TOGETHER WITH all that portion of the South one-half of Section 15 described as follows:

COMMENCING at a 5/8" rebar with cap stamped "LS 5712" marking the East one-quarter corner of said Section 15 as it is shown on the Record of Survey map filed in Book 11 of Maps and Surveys, at page 22; Thence South 89° 49' 22" West along the East-West centerline of Section 15, 3801.64 feet to a 5/8" rebar with cap stamped "LS 5712" and the point of beginning of this description; Thence South 1° 07' 31" East, 2643.58 feet to a 5/8" rebar with cap stamped "LS 5712" marking a point on the South boundary of Section 15; Thence South 89° 32' 32" West, along the South boundary of Section 15, 692.17 feet to the Easterly boundary of the Southern Pacific Railroad right-of-way; Thence North 1° 07' 31" West along said right-of-way, 2646.97 feet to a 5/8" rebar with cap stamped "LS 5712" marking a point on the East-West centerline of Section 15; Thence North 89° 49' 22" East, 692.22 feet to the point of beginning.

EXCEPTING THEREFROM all that portion of the North one-half of Section 15, described as follows:

BEGINNING at a 5/8" rebar with cap stamped "LS 5712" marking the East one-quarter corner of said Section 15 as it is shown on the Record of Survey map filed in Book 11 of Maps and Surveys, at page 22; Thence South 89° 49' 22" West, along the East-West centerline of Section 15, 3014.61 feet to a 5/8" rebar with cap stamped "LS 5712"; Thence North 0° 52' 33" West, 1423.38 feet to a 5/8" rebar with cap stamped "LS 5712"; Thence South 73° 56' 43" East, 138.00 feet to a 5/8" rebar with cap stamped "LS 5712"; Thence South 57° 55' 38" East, 1782.46 feet to a 5/8" rebar with cap stamped "LS 5712"; Thence South 71° 09' 26" East, 1118.55 feet to a 5/8" rebar with cap stamped "LS 5712"; Thence South 80° 46' 33" East, 33.37 feet to a 5/8" rebar with cap stamped "LS 5712"; Thence South 89° 40' 53" East, 301.41 feet to a 5/8" rebar with cap stamped "LS 5712" marking a point on the East boundary of Section 15; Thence South 0° 21' 15" East, 60.97 feet to the point of beginning.

This description is based upon a field survey performed in July, 1997. The basis of bearing for this survey is the East-West centerline of Section 15, shown as North 89° 49' 22" East on the Record of Survey Map filed in Book 11 of Maps and Surveys at page 22.

APN: 024-100-017-000

PARCEL TWO:

Being a portion of the Southwest quarter of Section 10, Township 21 North, Range 3 West, M.D.B. & M., more particularly described as follows:

BEGINNING at a point on the centerline of County Road No. 27, and the Southerly line of said Section 10, which points lies distant West, 3939.93 feet, more or less, from a brass capped iron marking the Southeast corner of said Section 10; thence continuing West on and along said centerline of County Road No. 27 and the southerly line of said Section 10, 200.00 feet to a point; thence leaving said road centerline and said section line North $00^{\circ}39'13''$ West, 22.99 feet, more or less, to a three-quarter inch iron pipe tagged R.C.E. 13781 and a point in the existing Northerly right of way fence of said County Road No. 27; thence continuing North $00^{\circ}39'13''$ West, 300.00 feet to a three-quarter inch iron pipe tagged R.C.E. 13781; thence East 200.00 feet to a three-quarter inch iron pipe tagged R.C.E. 13781; thence South $00^{\circ}39'13''$ East, 300.00 feet to a three-quarter inch iron pipe tagged R.C.E. 13781 and a point in the existing Northerly right of way fence of said County Road No. 27; thence continuing South $00^{\circ}39'13''$ East, 22.00 feet, more or less, to the point of beginning.

APN: 024-090-045-000

PARCEL TWO-A:

An Easement for Road Purposes over a Parcel of land being 26.40 feet wide and lying Westerly of, adjacent to, and parallel with the above described Parcel.

DRAFT

EXHIBIT A
LIST OF PRINTED EXCEPTIONS AND EXCLUSIONS (BY POLICY TYPE)
CLTA/ALTA HOMEOWNER S POLICY OF TITLE INSURANCE (02-03-10)
EXCLUSIONS

In addition to the Exceptions in Schedule B, You are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of those portions of any law or government regulation concerning:
 - (a) building;
 - (b) zoning;
 - (c) land use;
 - (d) improvements on the Land;
 - (e) land division; and
 - (f) environmental protection.This Exclusion does not limit the coverage described in Covered Risk 8 a, 14, 15, 16, 18, 19, 20, 23 or 27.
2. The failure of Your existing structures, or any part of them, to be constructed in accordance with applicable building codes. This Exclusion does not limit the coverage described in Covered Risk 14 or 15.
3. The right to take the Land by condemning it. This Exclusion does not limit the coverage described in Covered Risk 17.
4. Risks:
 - (a) that are created, allowed, or agreed to by You, whether or not they are recorded in the Public Records;
 - (b) that are Known to You at the Policy Date, but not to Us, unless they are recorded in the Public Records at the Policy Date;
 - (c) that result in no loss to You; or
 - (d) that first occur after the Policy Date - this does not limit the coverage described in Covered Risk 7, 8 e., 25, 26, 27 or 28.
5. Failure to pay value for Your Title.
6. Lack of a right:
 - (a) to any land outside the area specifically described and referred to in paragraph 3 of Schedule A; and
 - (b) in streets, alleys, or waterways that touch the Land.This Exclusion does not limit the coverage described in Covered Risk 11 or 21.
7. The transfer of the Title to You is invalid as a preferential transfer or as a fraudulent transfer or conveyance under federal bankruptcy, state insolvency, or similar creditors' rights laws.

LIMITATIONS ON COVERED RISKS

Your insurance for the following Covered Risks is limited on the Owner's Coverage Statement as follows: For Covered Risk 16, 18, 19, and 21 Your Deductible Amount and Our Maximum Dollar Limit of Liability shown in Schedule A.

<u>Your Deductible Amount</u>	<u>Our Maximum Dollar Limit of Liability</u>
Covered Risk 16: 1% of Policy Amount or \$2,500.00 (whichever is less)	\$10,000.00
Covered Risk 18: 1% of Policy Amount or \$5,000.00 (whichever is less)	\$25,000.00
Covered Risk 19: 1% of Policy Amount or \$5,000.00 (whichever is less)	\$25,000.00
Covered Risk 21: 1% of Policy Amount or \$2,500.00 (whichever is less)	\$5,000.00

ALTA RESIDENTIAL TITLE INSURANCE POLICY (6-1-87)
EXCLUSIONS

In addition to the Exceptions in Schedule B, you are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of any law or government regulation. This includes building and zoning ordinances and also laws and regulations concerning:
 - (a) and use
 - (b) improvements on the land
 - (c) and division
 - (d) environmental protectionThis exclusion does not apply to violations or the enforcement of these matters which appear in the public records at Policy Date. This exclusion does not limit the zoning coverage described in Items 12 and 13 of Covered Title Risks.
2. The right to take the land by condemning it, unless:
 - (a) a notice of exercising the right appears in the public records on the Policy Date
 - (b) the taking happened prior to the Policy Date and is binding on you if you bought the land without knowing of the taking
3. Title Risks:
 - (a) that are created, allowed, or agreed to by you
 - (b) that are known to you, but not to us, on the Policy Date -- unless they appeared in the public records
 - (c) that result in no loss to you
 - (d) that first affect your title after the Policy Date -- this does not limit the labor and material lien coverage in Item 8 of Covered Title Risks
4. Failure to pay value for your title.
5. Lack of a right:
 - (a) to any land outside the area specifically described and referred to in Item 3 of Schedule A OR
 - (b) in streets, alleys, or waterways that touch your landThis exclusion does not limit the access coverage in Item 5 of Covered Title Risks.

2006 ALTA LOAN POLICY (06-17-06)
EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
 - (i) the occupancy, use, or enjoyment of the Land;
 - (ii) the character, dimensions, or location of any improvement erected on the Land;
 - (iii) the subdivision of land; or
 - (iv) environmental protection;or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
- (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
 - (a) created, suffered, assumed, or agreed to by the Insured Claimant;
 - (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
 - (c) resulting in no loss or damage to the Insured Claimant;
 - (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 13, or 14); or
 - (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law.
6. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
 - (a) a fraudulent conveyance or fraudulent transfer, or
 - (b) a preferential transfer for any reason not stated in Covered Risk 13(b) of this policy.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the Insured Mortgage in the Public Records. This Exclusion does not modify or limit the coverage provided under Covered Risk 11(b).

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) that arise by reason of:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material not shown by the public records.

2006 ALTA OWNER'S POLICY (06-17-06)
EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
 - (i) the occupancy, use, or enjoyment of the Land;
 - (ii) the character, dimensions, or location of any improvement erected on the Land;
 - (iii) the subdivision of land; or
 - (iv) environmental protection;or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
- (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters

- (a) created, suffered, assumed, or agreed to by the Insured Claimant;
- (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
- (c) resulting in no loss or damage to the Insured Claimant;
- (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 9 or 10); or
- (e) in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Title.
- 4. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction vesting the Title as shown in Schedule A, is
 - (a) a fraudulent conveyance or fraudulent transfer, or
 - (b) a preferential transfer for any reason not stated in Covered Risk 9 of this policy.
- 5. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the deed or other instrument of transfer in the Public Records that vests Title as shown in Schedule A.

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) that arise by reason of:

- 1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
- 2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
- 3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
- 4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
- 5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
- 6. Any lien or right to a lien for services, labor or material not shown by the public records.

ALTA EXPANDED COVERAGE RESIDENTIAL LOAN POLICY (07-26-10) EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

- 1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
 - (i) the occupancy, use, or enjoyment of the Land;
 - (ii) the character, dimensions, or location of any improvement erected on the Land;
 - (iii) the subdivision of land; or
 - (iv) environmental protection;
 or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
- (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
- 2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
- 3. Defects, liens, encumbrances, adverse claims, or other matters
 - (a) created, suffered, assumed, or agreed to by the Insured Claimant;
 - (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
 - (c) resulting in no loss or damage to the Insured Claimant;
 - (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27 or 28); or
 - (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
- 4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
- 5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law. This Exclusion does not modify or limit the coverage provided in Covered Risk 26.
- 6. Any claim of invalidity, unenforceability or lack of priority of the lien of the Insured Mortgage as to Advances or modifications made after the Insured has Knowledge that the vestee shown in Schedule A is no longer the owner of the estate or interest covered by this policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11.
- 7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching subsequent to Date of Policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11(b) or 25.
- 8. The failure of the residential structure, or any portion of it, to have been constructed before, on or after Date of Policy in accordance with applicable building codes. This Exclusion does not modify or limit the coverage provided in Covered Risk 5 or 6.

9. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
- (a) a fraudulent conveyance or fraudulent transfer, or
 - (b) a preferential transfer for any reason not stated in Covered Risk 27(b) of this policy.

CALIFORNIA LAND TITLE ASSOCIATION STANDARD COVERAGE POLICY 1990
SCHEDULE B

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records. Proceedings by a public agency which may result in taxes or assessments, or notice of such proceedings, whether or not shown by the records of such agency or by the public records.
2. Any facts, rights, interest, or claims which are not shown by the public records but which could be ascertained by an inspection of the land or which may be asserted by persons in possession thereof.
3. Easements, liens or encumbrances, or claims thereof, which are not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the public records.
6. Any lien or right to a lien for services, labor or material not shown by the public records.

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building and zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating to (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
- (b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.
3. Defects, liens, encumbrances, adverse claims or other matters:
 - (a) whether or not recorded in public records at Date of Policy, but created, suffered, assumed or agreed to by the insured claimant;
 - (b) not known to the Company, not recorded in public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;
 - (c) resulting in no loss or damage to the insured claimant;
 - (d) attaching or created subsequent to Date of Policy; or
 - (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the insured mortgage or for the estate or interest insured by this policy.
4. Unenforceability of the lien of the insured mortgage because of the inability or failure of the insured at Date of Policy, or the inability or failure of any subsequent owner of the indebtedness, to comply with applicable doing business laws of the state in which the land is situated.
5. Invalidity or unenforceability of the lien of the insured mortgage, or claim thereof, which arises out of the transaction evidenced by the insured mortgage and is based upon usury or any consumer credit protection or truth in lending law.
6. Any claim which arises out of the transaction vesting in the insured the estate or interest insured by their policy or the transaction creating the interest of the insured lender, by reason of the operation of federal bankruptcy, state of insolvency or similar creditors' rights laws.

PRIVACY INFORMATION

We Are Committed to Safeguarding Customer Information

In order to better serve your needs now and in the future, we may ask you to provide us with certain information. We understand that you may be concerned about what we will do with such information. We agree that you have right to know how we will utilize the personal information you provide to us. Therefore, together with our subsidiaries we have adopted this Privacy Policy to govern the use and handling of your personal information.

Applicability

This Privacy Policy governs our use of the information that you provide to us. It does not govern the manner in which we may use information we have obtained from any other sources, such as information obtained from a public record or from another person or entity. First American has also adopted broader guidelines that govern our use of personal information regardless of its source. First American calls these guidelines its Fair Information Values.

Types of Information

Depending upon which of our services you are utilizing, the types of nonpublic personal information that we may collect include:

- Information we receive from you on applications, forms and in other communications to us, whether in writing, in person, by telephone or any other means;
- Information about your transactions with us, our affiliated companies, or others; and
- Information we receive from a consumer reporting agency.

Use of Information

We request information from you for our own legitimate business purposes and not for the benefit of any nonaffiliated party. Therefore, we will not release your information to nonaffiliated parties except: (1) as necessary for us to provide the product or service you have requested of us, or (2) as permitted by law. We may, however, store such information indefinitely, including the period after which any customer relationship has ceased. Such information may be used for any internal purpose, such as quality control efforts or customer analysis. We may also provide all of the types of nonpublic personal information listed above to one or more of our affiliated companies. Such affiliated companies include financial service providers, such as title insurers, property and casualty insurers, and trust and investment advisory companies, or companies involved in real estate services, such as appraisal companies, home warranty companies and escrow companies. Furthermore, we may also provide all the information we collect, as described above, to companies that perform marketing services on our behalf, on behalf of our affiliated companies or to other financial institutions with whom we or our affiliated companies have joint marketing agreements.

Former Customers

Even if you are no longer our customer, our Privacy Policy will continue to apply to you.

Confidentiality and Security

We will use our best efforts to ensure that no unauthorized parties have access to any of our information. We restrict access to nonpublic personal information about you to those individuals and entities who need to know that information to provide products or services to you. We will use our best efforts to train and oversee our employees and agents to ensure that your information will be handled responsibly and in accordance with this Privacy Policy and First American's Fair Information Values. We currently maintain physical, electronic, and procedural safeguards that comply with federal regulations to guard your nonpublic personal information.

Information Obtained Through Our Web Site

Business Relationships

First American Financial Corporation's site and its affiliates' sites may contain links to other Web sites. While we try to link only to sites that share our high standards and respect for privacy, we are not responsible for the content or the privacy practices employed by other sites.

Cookies

Some of First American's Web site may make use of "cookie" technology to measure site activity and to customize information to your personal tastes. A cookie is an element of data that a Web site can send to your browser, which may then store the cookie on your hard drive. FirstAm.com uses stored cookies. The goal of this technology is to better serve you when visiting our site, save you time when you are here and to provide you with a more meaningful and productive Web site experience.

Fair Information Values

Fairness We consider consumer expectations about their privacy in all our businesses. We only offer products and services that assure a favorable balance between consumer benefits and consumer privacy.

Public Record We believe that an open public record creates significant value for society, enhances consumer choice and creates consumer opportunity. We actively support an open public record and emphasize its importance and contribution to our economy.

Use We believe we should behave responsibly when we use information about a consumer in our business. We will obey the laws governing the collection, use and dissemination of data.

Accuracy We will take reasonable steps to help assure the accuracy of the data we collect, use and disseminate. Where possible, we will take reasonable steps to correct inaccurate information. When, as with the public record, we cannot correct inaccurate information, we will take all reasonable steps to assist consumers in identifying the source of the erroneous data so that the consumer can secure the required corrections.

Education We endeavor to educate the users of our products and services, our employees and others in our industry about the importance of consumer privacy. We will instruct our employees on our fair information values and on the responsible collection and use of data. We will encourage others in our industry to collect and use information in a responsible manner.

Security We will maintain appropriate facilities and systems to protect against unauthorized access to and corruption of the data we maintain.

The map attached, if any, may or may not be a survey of the land depicted hereon. Timios Title and it s Underwriters expressly disclaims any liability for loss or damage which may result from reliance on this map except to the extent coverage for such loss or damage is expressly provided by the terms and provisions of the title insurance policy, if any, to which this map is attached.

MAP

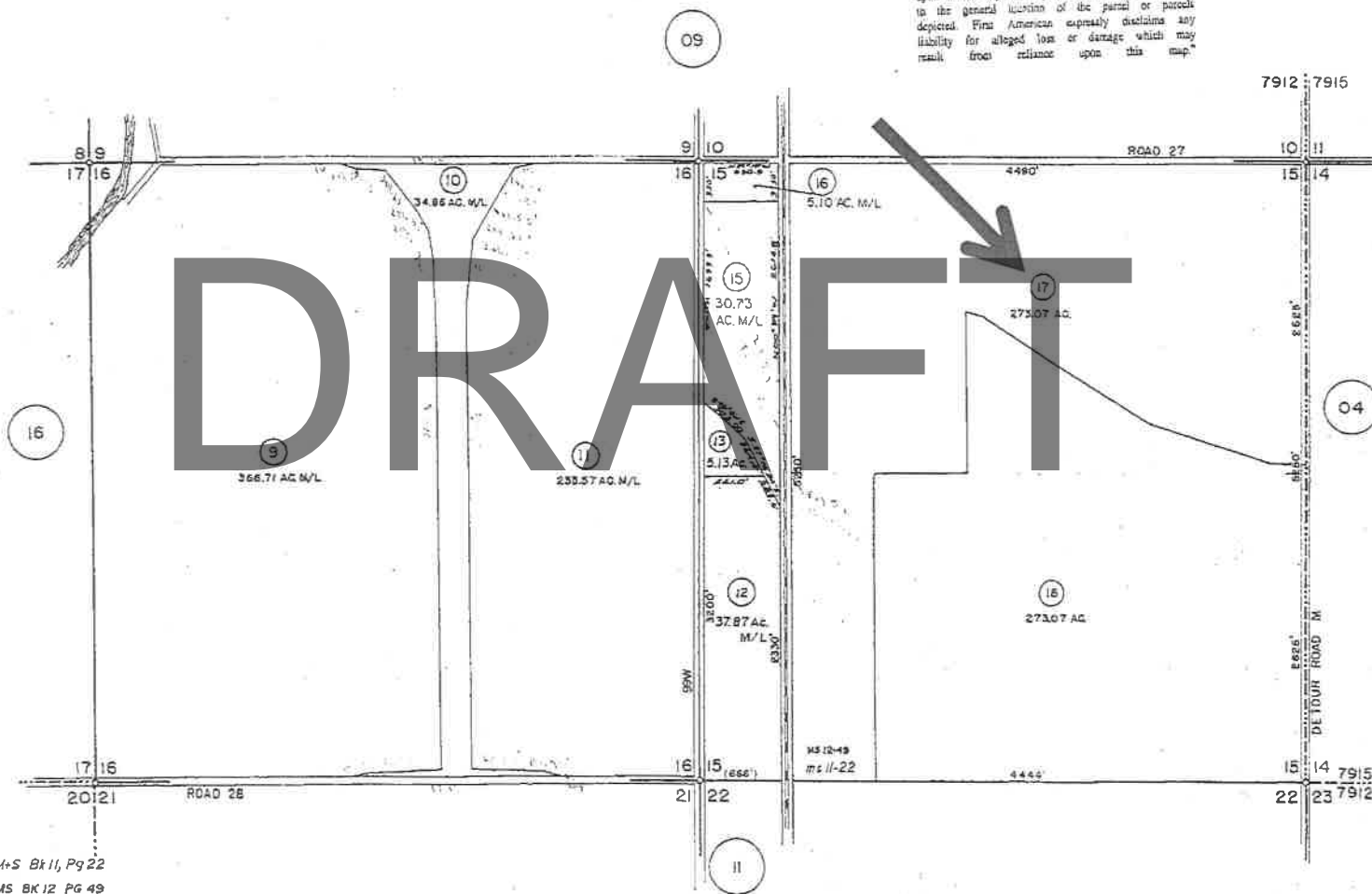
MS BK 12 PG 49

MS BK 12 PG 49

721N R3W

T.C.A. 24-10
7912

NOTE: This map may or may not be a survey of the land depicted hereon. You should not rely upon it for any other purpose other than orientation to the general location of the parcel or parcels depicted. First American expressly disclaims any liability for alleged loss or damage which may result from reliance upon this map.



The map attached, if any, may or may not be a survey of the land depicted hereon. Timios Title and it s Underwriters expressly disclaims any liability for loss or damage which may result from reliance on this map except to the extent coverage for such loss or damage is expressly provided by the terms and provisions of the title insurance policy, if any, to which this map is attached.

MAP

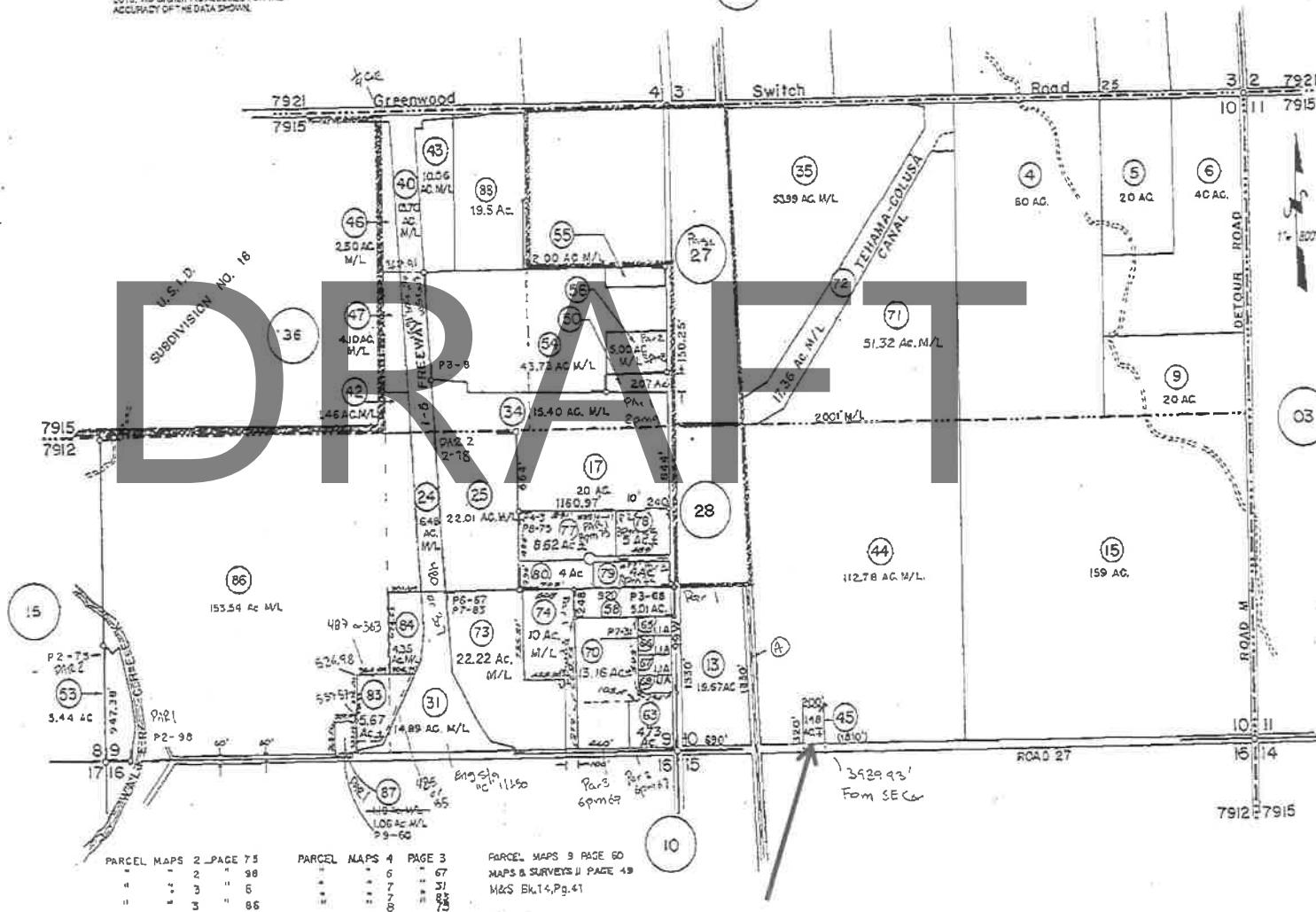
Rm 7-13-83

NOTE: ALL INFORMATION SHOWN ON ASSESSOR PARCEL MAPS ARE FOR ASSESSOR'S OFFICE USE AND DO NOT CONSTITUTE A LEGAL SURVEY. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE DATA SHOWN.

T21N R3W

T.C.A. 24-09

7915





WIRE INSTRUCTIONS

TIMIOS TITLE, A CALIFORNIA CORPORATION
TRUST ACCOUNT

Bank of America N.A.
100 N Tryon St., Ste 170
Charlotte, NC 28202

CHIPS Address: 0959
SWIFT Address: BOFAUS3N

DRAFT

ACCOUNT NO.: 488038505160

ROUTING NO.: 026009593

Please reference borrower s name and loan number on wire transfer.



Order Number: 71-00139145

Loan Number:

Property Address: APN# 024-090-045-000 & 024-100-017-000
ORLAND, CA 95963

Borrower / Buyer: VIOLICH FARMS, INC

****PLEASE NOTE: THESE ARE UPDATED WIRE INSTRUCTIONS FOR
TIMIOS TITLE, A CALIFORNIA CORPORATION**

<input checked="" type="checkbox"/>		Co	APN 	Owner	S Street Address	S City State Zip	Mail Address	Mail City	Mail State
<input checked="" type="checkbox"/>	1	GLE	024-100-009-000	BAJAJ DINESH CHOPRA PUNNU C/P		ORLAND CA 95963	25 JORDAN PLACE #1	CHICO	CA
<input checked="" type="checkbox"/>	2	GLE	024-100-010-000	CALIFORNIA STATE OF		ORLAND CA 95963	P O BOX	SACRAMENTO	CA
<input checked="" type="checkbox"/>	3	GLE	024-100-011-000	KILMER CAROLYN J		ORLAND CA 95963	P O BOX 1744	MARTINEZ	CA
<input checked="" type="checkbox"/>	4	GLE	024-100-012-000	BAJAJ DINESH CHOPRA PUNNU C/P		ORLAND CA 95963	25 JORDANS PLACE #1	CHICO	CA
<input checked="" type="checkbox"/>	5	GLE	024-100-013-000	ROYCE BYRON H & DONNA M TRS	3600 CO RD 99	ORLAND CA 95963-9817	P O BOX 998	CORNING	CA
<input checked="" type="checkbox"/>	6	GLE	024-100-015-000	ROYCE BYRON H DONNA M TRS		ORLAND CA 95963	P O BOX 998	CORNING	CA
<input checked="" type="checkbox"/>	7	GLE	024-100-016-000	AMERICA UNITED STATES OF	6505 CO RD 27	ORLAND CA 95963-9780	P O BOX 988	WILLOWS	CA
<input checked="" type="checkbox"/>	8	GLE	024-100-017-000	ALCATRAZ FARMING INC	6569 CO RD 27	ORLAND CA 95963-9780	P O BOX 875	KENTFIELD	CA
<input checked="" type="checkbox"/>	9	GLE	024-100-019-000	MONTZ JOHN D JR S/S		ORLAND CA 95963	P O BOX 6	WILLOWS	CA
<input checked="" type="checkbox"/>	10	GLE	024-100-020-000	FULTON CAROL TRS		ORLAND CA 95963	3507 COUNTY ROAD M	ORLAND	CA

DRAFT

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T.C.A. 24-10'
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