



County of Fresno

DEPARTMENT OF PUBLIC WORKS AND PLANNING
STEVEN E. WHITE, DIRECTOR

EVALUATION OF ENVIRONMENTAL IMPACTS

- APPLICANT: Gerrit Roeloffs
- APPLICATION NOS.: Initial Study No. 7641 and Classified Conditional Use Permit Application No. 3651
- DESCRIPTION: Allow expansion of an existing pre-October 23, 2007 cattle feedlot to a total of 8,000 heads of cattle on an 88.77-acre parcel in the AE-20 (Exclusive Agricultural, 20-acre minimum parcel size) Zone District.
- LOCATION: The project site is located at the southwest corner of West Annadale Avenue and South Chateau Fresno Avenue, easterly adjacent to the City of Fresno Wastewater Treatment Facility (APN 327-200-10) (2585 S. Chateau Fresno, Fresno, CA).

I. AESTHETICS

Except as provided in Public Resources Code Section 21099, would the project:

- A. Have a substantial adverse effect on a scenic vista; or
- B. Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

FINDING: LESS THAN SIGNIFICANT IMPACT:

According to Figure OS-2 of the Fresno County General Plan there are no scenic roadways or highways located near or fronting the project site. The project site is located in an agricultural area with the Fresno Wastewater Treatment Facility located directly east of the project site. There were no scenic vistas of scenic resources identified on or near the project site. Additionally, the project site is already improved with a feedlot. Based on the no identified scenic vista or resource and the presence of the existing feedlot, the project will have a less than significant impact resulting from the proposed expansion.

- C. In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized

area, would the project conflict with applicable zoning and other regulations governing scenic quality?

FINDING: LESS THAN SIGNIFICANT IMPACT:

The subject site is already improved with a cattle feedlot. New development associated with the proposal includes the construction of calf hutches and corral shades. The surrounding area is utilized mainly for agricultural purposes with single family residential units located throughout the area. It should also be noted that directly east of the project site is the City of Fresno Wastewater Treatment Facility. In considering the existing nature of the feedlot and development associated with the proposal, a less than significant impact is seen. Increased development of the site will degrade the visual character of the site, but due to the agricultural nature of the operation and surrounding development, the project is not considered to be substantially degrading the visual character of the area.

- D. Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

FINDING: LESS THAN SIGNIFICANT IMPACT WITH MITIGATION INCORPORATED:

Per the Applicant's Operational Statement, the operation utilizes outdoor lighting. A Mitigation Measure will be implemented to reduce glare that would be produced from the utilization of outdoor lighting.

* **Mitigation Measure(s)**

1. *All outdoor lighting shall be hooded and directed downward so as not to shine on adjacent properties or public right-of-way.*

II. AGRICULTURAL AND FORESTRY RESOURCES

In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology in Forest Protocols adopted by the California Air Resources Board. Would the project:

- A. Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance, as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use; or
- B. Conflict with existing zoning for agricultural use, or a Williamson Act Contract?

FINDING: NO IMPACT:

According to the 2016 Fresno County Important Farmlands Map, the project site is designated Confined Animal Agriculture. The subject parcel is subject to the Williamson Act Program under Contract No. 5654. The Policy Planning Section of the Department of Public Works and Planning has reviewed the proposal and required that a Statement of Intended Use be submitted for review and approval. Review of the submitted Statement of Intended Use, the project complies with the requirements and provisions of the Williamson Act.

- C. Conflict with existing zoning for forest land, timberland or timberland zoned Timberland Production; or
- D. Result in the loss of forest land or conversion of forest land to non-forest use?

FINDING: NO IMPACT:

The project site is not located in area zoned for forest land, timberland, or timberland zoned Timberland Production and will not result in the loss of forest land or conversion of forest land to non-forest use.

- E. Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?

FINDING: NO IMPACT:

The subject project site is already improved with a feedlot operation. The expansion will not result in the conversion of Farmland to non-agricultural use as the facility is agricultural in nature and has not resulted in conversion of additional land during its existence. The project will not result in the conversion of forest land to non-forest use.

III. AIR QUALITY

Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project:

- A. Conflict with or obstruct implementation of the applicable Air Quality Plan; or
- B. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard; or

FINDING: LESS THAN SIGNIFICANT IMPACT:

The San Joaquin Valley Air Pollution Control District (SJVAPCD) has established thresholds for criteria pollutants which are 10 tons per year for Reactive Organic Gasses (ROG), Nitrogen Oxides (NOx), 100 tons per year for Carbon Monoxide (CO), 27 tons per year for Sulfur Dioxide (SO₂), and 15 tons per year for PM 2.5 and PM 10. An Air Quality Analysis prepared for the proposed expansion determined that an increase in criteria pollutants would occur from construction and operation, but not exceed thresholds established by SJVAPCD. The SJVAPCD has reviewed the modeling and results of the Air Quality Analysis and did not express concern with the determinations made in the analysis to indicate that the project will conflict with or obstruct implementation of the applicable Air Quality Plan or result in a cumulatively considerable increase in criteria pollutants.

- C. Expose sensitive receptors to substantial pollutant concentrations; or
- D. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

FINDING: LESS THAN SIGNIFICANT IMPACT:

The SJVAPCD has reviewed the application and determined that the project is subject to Rule 4102 of the SJVAPCD for nuisance abatement should the project create a public nuisance. The subject application is for a cattle feedlot which will produce odors that could adversely affect a substantial number of people. Surrounding properties and uses indicate that minimal sensitive receptors would be affected by the proposed expansion. Therefore, a less than significant impact is seen as there is minimal sensitive receptors located in close proximity of the project site that could be adversely impacted by the project proposal and if a nuisance were to be reported to the SJVAPCD, the operator would be required to address nuisance or be subject to District enforcement action. A Health Risk Assessment (HRA) was also conducted by the applicant to determine adverse impacts the operation could have on sensitive receptors. The HRA concluded that the operation will not exceed thresholds established by the SJVAPCD. The SJVAPCD has reviewed the application and did not express concern to indicate that the project would result in adverse impacts related to odors or pollutant concentrations that would adversely impact a substantial number of people.

IV. BIOLOGICAL RESOURCES

Would the project:

- A. Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service; or
- B. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?

FINDING: NO IMPACT:

According to the California Natural Diversity Database, the project site is not located within any reported occurrence areas of a candidate, sensitive, or special state species. Neither the California Department of Fish and Wildlife (CDFW) nor the U.S. Fish and Wildlife Service (USFWS) express concerns with the project to indicate and adverse effect on candidate, sensitive, or special-status species. There were no riparian habitats or other sensitive natural communities identified on or near the project site that could be affected by the proposal. The subject parcel is already improved with a cattle feedlot, therefore it is unlikely that a special status species would occupy the site and there is no indication of a riparian habitat or other sensitive natural community.

- C. Have a substantial adverse effect on state or federally-protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

FINDING: NO IMPACT:

According to the National Wetlands Inventory, the subject site is located near an identified Lake. Upon further investigation, the identified lake is the City of Fresno Wastewater Treatment Facility located directly east of the project site. Although identified as a lake, the wastewater treatment facility is a manmade facility and is not considered a protected wetland. The project proposal will be confined to the subject parcel and have no effect on the treatment facility located directly east of the project site.

- D. Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

FINDING: NO IMPACT:

There are no identified migratory wildlife corridor or native wildlife nursery site located on the project site. The project site is already improved with a cattle feedlot operation and the project proposal will not interfere substantially with the movement of any native resident or species.

- E. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance; or
- F. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state Habitat Conservation Plan?

FINDING: NO IMPACT:

There were no identified policies, ordinances, or plans that the project proposal would conflict with. CDFW and USFWS did not express any concerns with the proposal to

indicate that the project would conflict with any provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved Habitat Conservation Plan.

V. CULTURAL RESOURCES

Would the project:

- A. Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5; or
- B. Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5; or
- C. Disturb any human remains, including those interred outside of formal cemeteries?

FINDING: LESS THAN SIGNIFICANT IMPACT WITH MITIGATION INCORPORATED:

The project proposal does include the provision of ground disturbance on an already disturbed site from the existing improvements related to the operating cattle feedlot. With the presence of the existing operation, the presence of cultural resources is not likely, but a mitigation measure will be implemented in the event that resources are unearthed during ground-disturbance related to the project proposal.

* **Mitigation Measure(s)**

1. *In the event that cultural resources are unearthed during ground-disturbing activities, all work shall be halted in the area of the find. An archeologist shall be called to evaluate the findings and make any necessary mitigation recommendations. If human remains are unearthed during ground-disturbing activities, no further disturbance is to occur until the Fresno County Sheriff-Coroner has made the necessary findings as to origin and disposition. All normal evidence procedures should be followed by photos, reports, videos, etc. If such remains are determined to be Native American, the Sheriff-Coroner must notify the Native American Commission within 24 hours.*

VI. ENERGY

Would the project:

- A. Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation; or
- B. Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

FINDING: LESS THAN SIGNIFICANT IMPACT:

The proposed structures involved with the proposal will be subject to the current building code, which take into account energy efficiency. An increase in energy consumption is expected with the provision of new structures, but is not expected to result in wasteful, inefficient, or unnecessary consumption of energy resources. The project will be subject to the current standards when applying for a building permit and will be subject to the most current state and local plans for renewable energy or energy efficiency, therefore, the project will not conflict with or obstruct state or local plans for renewable energy and energy efficiency.

VII. GEOLOGY AND SOILS

Would the project:

- A. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:
1. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?

FINDING: NO IMPACT:

According to Figure 9-2 and 9-3 of the Fresno County General Plan Background Report (FCGPBR) and the Earthquake Hazard Zone Application by the California Department of Conservation, the project site is not located on or near identified earthquake hazard zones.

2. Strong seismic ground shaking?
3. Seismic-related ground failure, including liquefaction?

FINDING: NO IMPACT:

According to Figure 9-5 of the FCGPBR, the project site is not located on or near areas identified as being in a probabilistic seismic hazard area with peak horizontal ground acceleration. Therefore, the project is not subject to strong seismic ground shaking or seismic-related ground failure that would adversely affect the site.

4. Landslides?

FINDING: NO IMPACT:

According to Figure 9-6 of the FCGPBR, the project site is not located within areas of the County that are subject to landslide hazards. The subject property is located in a considerably flat area that is utilized for agricultural operations and a wastewater treatment facility located directly east of the project site.

- B. Result in substantial soil erosion or loss of topsoil?

FINDING: LESS THAN SIGNIFICANT IMPACT:

Per Figure 7-3 and 7-4 of the FCGPBR, the project site is not located in identified erosion hazard areas throughout Fresno County. The proposed improvements throughout the site will result in a minimal loss of topsoil. The subject site is located on flat agricultural land and will not result in substantial soil erosion and will have a less than significant impact on the environment due to the minimal loss of topsoil.

- C. Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?

FINDING: NO IMPACT:

No geologic unit or unstable soil has been identified on the project site that would become unstable as a result of the project. Additionally, the subject site has already been improved with a cattle feedlot operation and the proposed expansion is not expected to adversely effect the underlying soil conditions of the site.

- D. Be located on expansive soil as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?

FINDING: NO IMPACT:

Figure 7-1 of the FCGPBR depicts identified expansive soil areas throughout Fresno County. The project site is not located in any identified expansive soil areas depicted in Figure 7-1.

- E. Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?

FINDING: NO IMPACT:

Per the Applicant's Operational Statement, the proposal does not include the provision of additional septic systems or alternative wastewater disposal systems. As there is no proposal of additional septic systems or alternative wastewater disposal systems, no impact is seen.

- F. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

FINDING: NO IMPACT:

There were no unique paleontological or unique geologic resource identified on the project site or being affected by the project proposal.

VIII. GREENHOUSE GAS EMISSIONS

Would the project:

- A. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment; or
- B. Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

FINDING: LESS THAN SIGNIFICANT IMPACT:

The estimated greenhouse gas emissions for project operation is 14.7 metric tons a year of CH₄, 0.17 metric tons a year of N₂O, and 3,866.18 metric tons a year of CO₂ emissions. Review of the estimated emissions did not raise concern with reviewing agencies and departments. Under the guidelines for greenhouse gas emissions provided by the San Joaquin Valley Air Pollution Control District (SJVAPCD), a less than significant impact can be seen if best practice standards are implemented or if a 29% reduction in emissions compared to the business as usual baseline period is attained. Although best practice standards and a percentage reduction were not identified, the SJVAPCD reviewed the analysis conducted by the Applicant and did not raise concern to indicate that greenhouse gas emissions resulting from the proposed expansion will generate emissions that may have a significant impact on the environment or that the expansion will conflict with an applicable plan, policy or regulation adopted for the purpose of reducing emissions of greenhouse gasses.

VIII. HAZARDS AND HAZARDOUS MATERIALS

Would the project:

- A. Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials; or
- B. Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

FINDING: NO IMPACT:

The proposed expansion of the existing use is not expected to create a significant hazard to the public or environment as the use does not transport, use, or dispose hazardous materials. The proposed expansion would not create a significant hazard to the public or the environment through upset or accident conditions involving release of hazardous materials into the environment. The proposed expansion will result in the increase in waste produced from the cattle. A Waste Management Plan (WMP) has been provided by the Applicant detailing the waste generated by the existing use and increase resulting from the expansion, and treatment of waste. The concluded that the existing wastewater storage capacity can efficiently handle the proposed expansion,

therefore it can be seen that wastewater produced from the project is properly handled and would not create hazardous conditions to the public or environment.

- C. Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

FINDING: NO IMPACT:

There are no existing or proposed schools within a one-quarter mile of the project site. For reference, the Houghton-Kearney K-8 School is located approximately 10,355 feet northwest of the project site. The project would not emit hazardous emissions or handle hazardous materials that would affect any school site.

- D. Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

FINDING: NO IMPACT:

According to the NEPAssist database, there are no listed hazardous materials site located within a half-mile radius of the subject site. The subject site is not a listed hazardous materials site therefore the project would not result or create a significant hazard to the public or the environment.

- E. For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?

FINDING: NO IMPACT:

The project site is not located within two miles of a public airport or public use airport.

- F. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan; or
- G. Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?

FINDING: NO IMPACT:

Reviewing agencies and departments did not express concern with the subject expansion project to indicate the project resulting in impairment of implementation or physically interfering with an adopted emergency response plan or emergency evacuation plan. The project site is located in an agricultural region and also abuts the City of Fresno Wastewater Treatment Facility. The project will not result in exposure of people structures to a significant risk of loss, injury or death involving wildland fires.

X. HYDROLOGY AND WATER QUALITY

Would the project:

- A. Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality; or
- B. Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?

FINDING: LESS THAN SIGNIFICANT IMPACT WITH MITIGATION INCORPORATED:

Review of the application by the State Water Resources Control Board, Regional Water Quality Control Board, and the Water and Natural Resources Division did not produce any concerns to indicate that the project would result in violation of water quality standards or waste discharge requirements. The project will result in an increase in waste discharge or water usage and will include the usage of wastewater storage ponds. A Waste Management Plan, also reviewed by the listed agencies and departments, concluded that existing improvements related to waste and wastewater management have the capacity to service the proposed expansion. The Regional Water Quality Control Board noted that existing permits for the facility will need to be changed to reflect their current operation of a Bovine Feeding Operation. No reviewing agency or department indicated that the expansion would substantially decrease groundwater supplies or interfere with groundwater recharge. Per the Regional Water Quality Control Board, the existing operation is currently operating under a waste discharge permit for dairy operations and based on the proposal, should rescind the current permit and apply for the waste discharge permit for bovine feeding operations. This requirement shall be included as a mitigation measure to ensure that the operation does not violate waste discharge requirements and meet requirements set forth by the Regional Water Quality Control Board.

* **Mitigation Measure(s)**

- 1. *The subject facility is currently enrolled under the Waste Discharge Requirements General Order for Existing Milk Cow Dairies (Dairy General Order) through the Regional Water Quality Control Board. Per the operational statement, there is currently no milking operation at the subject facility, therefore under such circumstances, rescission of coverage under the Dairy General Order should be requested and the discharger should obtain coverage under "Waste Discharge Requirements General Order for Confined Bovine Feeding Operations".*
- C. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would result in substantial erosion or siltation on or off site?
 - 1. Result in substantial erosion or siltation on- or off-site?

FINDING: NO IMPACT:

The expansion proposes to construct calf-hutches and shade corrals. The addition of the proposed structures are expected to have a minimal increase in impervious surfaces that would effect erosion and siltation of the site and is expected to have an effect on the drainage pattern of the site. The proposed improvements will be subject to current building code and grading standards to ensure compliance with County standards, therefore it can be seen that the project will not result in substantial erosion or siltation. Per the site plan, the operation is serviced by wastewater retention ponds and per the submitted Waste Management Plan, the increase in cattle will not exceed capacity of their existing facilities.

2. Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite?
3. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

FINDING: NO IMPACT:

A Waste Management Plan (WMP) has been prepared for the subject expansion and indicates that the proposal will not exceed capacity of existing wastewater retention ponds servicing the operation. Review of the WMP indicates that the surface runoff will not result in flooding of the site and will not exceed the capacity of the retention ponds. Additional maintenance practices are also addressed in the WMP to ensure that the wastewater retention ponds do not fail.

4. Impede or redirect flood flows?

FINDING: NO IMPACT:

According to FEMA FIRM Panel C2100H, the subject side is located in area designated Zone X, Area of Minimal Flood Hazard. Therefore, it can be seen that development under the project proposal will not impede or redirect flood flows.

- D. In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

FINDING: NO IMPACT:

Per FEMA FIRM Panel C2100H, the subject site is located in area designated Zone X, Area of Minimal Flood Hazard and is not subject to flood hazards. There are no bodies of water located near the project site to indicate increased risk from a tsunami or seiche zone hazard.

- E. Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

FINDING: NO IMPACT:

Agency/department review of the proposal and supporting documents did not indicate the project would conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan. Per the Regional Water Quality Control Board, the described project will be required to rescind their current discharge permit and update to reflect the existing operation. This requirement is included as a mitigation measure. Based on the review, the project will not conflict with or obstruct implementation of a water quality control plan of sustainable groundwater management plan.

XI. LAND USE AND PLANNING

Would the project:

- A. Physically divide an established community?

FINDING: NO IMPACT:

The subject application requests to expand an existing cattle feedlot operation. The project will not physically divide an established community.

- B. Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

FINDING: NO IMPACT:

The subject parcel is enrolled in the Williamson Act Program. The proposed expansion was required under the provisions of the Williamson Act Program to submit a Statement of Intended Use for review and determination that the proposed use is compatible with the Williamson Act Program. A Statement of Intended Use was submitted and reviewed by the Policy Planning Section for compliance of the proposed CUP with provisions of the Williamson Act Program and it was determined that the proposed use is compliant with the Williamson Act Program.

Identified policies of the Fresno County General Plan allow by discretionary permit in areas designated agricultural, special agricultural uses and agriculturally-related activities, including value-added processing facilities and certain non-agricultural uses. Approval of these and similar uses in areas designated as Agricultural is subject to defined criteria. Review of those criteria does not indicate that the project conflicts with this policy and would not create a significant environmental impact.

XII. MINERAL RESOURCES

Would the project:

- A. Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state; or
- B. Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local General Plan, Specific Plan or other land use plan?

FINDING: NO IMPACT:

Per Figure 7-7 and 7-8 of the Fresno County General Plan Background Report, the project is not located on or near identified mineral resource locations or principal mineral producing locations.

XIII. NOISE

Would the project result in:

- A. Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies; or
- B. Generation of excessive ground-borne vibration or ground-borne noise levels?

FINDING: LESS THAN SIGNIFICANT IMPACT:

The subject operation is located in an agricultural area with the City of Fresno Wastewater Treatment Facility located directly east of the project site. The closest sensitive receptor to the project area is a single-family residence located approximately 720 feet south. Temporary increases in noise levels are expected from project construction and a permanent increase in noise levels will occur with the allowance of additional cattle on the operation. The Fresno County Noise Ordinance is in effect that requires operations to be in compliance with acceptable noise thresholds. The Department of Public Health, Environmental Health Division has reviewed the subject application and did not express concern with the proposed expansion in terms of the proposal having a significant increase on noise levels that would exceed thresholds of the adopted Fresno County Noise Ordinance. The increase in noise levels from temporary construction and permanent expansion of cattle is not likely to exceed thresholds of the Fresno County Noise Ordinance, therefore a less than significant impact is seen.

- C. For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels; or

FINDING: NO IMPACT:

The subject property is not located within two miles of a private airstrip, airport land use plan, public airport, or public use airport.

XIV. POPULATION AND HOUSING

Would the project:

- A. Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?; or
- B. Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

FINDING: NO IMPACT:

The subject application proposes to expand an existing cattle feedlot operation to allow additional cattle and construct additional improvements. The project will not induce substantial population growth in the are nor will it displace numbers of existing people or housing necessitating construction of replacement housing.

XV. PUBLIC SERVICES

Would the project:

- A. Result in substantial adverse physical impacts associated with the provision of new or physically-altered governmental facilities, or the need for new or physically-altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services?
 - 1. Fire protection;
 - 2. Police protection;
 - 3. Schools;
 - 4. Parks; or
 - 5. Other public facilities?

FINDING: NO IMPACT:

Department and agency review of the subject application did not indicate that the project proposal will result in substantial adverse physical impacts associated with the provision of new or physically-altered governmental facilities, or the need for new or physically-altered governmental facilities.

XVI. RECREATION

Would the project:

- A. Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated; or
- B. Include recreational facilities or require the construction or expansion of recreational facilities, which might have an adverse physical effect on the environment?

FINDING: NO IMPACT:

The project proposal is not expected to increase the use of existing neighborhood and regional parks or other recreational facilities. The project does not include recreational facilities or require the construction or expansion of recreational facilities.

XVI. TRANSPORTATION

Would the project:

- A. Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities; or
- B. Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?

FINDING: LESS THAN SIGNIFICANT IMPACT:

Review of the traffic generation associated with the proposed expansion appear to have little to no change compared to the existing operation. It was concluded that the expansion would not exceed thresholds for traffic generation where preparation of a Traffic Impact Study (TIS) is necessary. The project does not conflict with a program, plan, ordinance or policy addressing the circulation system.

Under CEQA Guidelines Section 15064.3 subdivision (b), the project was not required to prepare an in-depth analysis on Vehicle Miles Traveled (VMT). In reviewing the amount of traffic generation associated with the proposal, minimal traffic increases are to occur with the expansion. Review of the proposal with the Transportation Planning Section of the Design Division and the Road Maintenance and Operations Division did not indicate that the project would conflict with or be inconsistent with CEQA Guidelines section 15064.3 subdivision (b).

- C. Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?; or
- D. Result in inadequate emergency access?

FINDING: NO IMPACT:

The submitted site plan does not change access points from public right-of-way and no concerns were expressed from the design and circulation of the site. Reviewing agencies and departments did not express concern with the site to indicate that the site design will result in inadequate emergency access.

XVIII. TRIBAL CULTURAL RESOURCES

Would the project:

- A. Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:
 - 1. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or
 - 2. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?

FINDING: LESS THAN SIGNIFICANT IMPACT WITH MITIGATION INCORPORATED:

Under the provisions of Assembly Bill 52 (AB 52), participating California Native American Tribes were notified of the subject application and given the opportunity to enter into consultation with the County on the subject application. No cultural resources were identified on the subject site nor did any notified Native American Tribe express concern with the application to indicate the potential presence of a cultural resource. Therefore, although tribal cultural resources were not identified on the project site, a mitigation measure shall be implemented to ensure proper handling of a cultural resource, should any resource be discovered during ground-disturbing activities.

* **Mitigation Measure(s)**

- 1. See Section V. Cultural Resources Mitigation Measure No. 1

XIX. UTILITIES AND SERVICE SYSTEMS

Would the project:

- A. Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications

facilities, the construction or relocation of which could cause significant environmental effects?

FINDING: NO IMPACT:

The project will not require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunication facilities. Per the prepared Waste Management Plan, the existing wastewater retention and treatment facilities have enough capacity to service the proposed expansion.

- B. Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?

FINDING: NO IMPACT:

The Water and Natural Resources Division and the State Water Resources Control Board reviewed the subject application and did not express concern with the proposed expansion to suggest that available water supplies would not be able to serve the project.

- C. Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

FINDING: LESS THAN SIGNIFICANT IMPACT:

The facility is currently serviced by private wastewater treatment facilities maintained by the operation. The prepared Waste Management Plan reviewed the wastewater capacity of the existing site and determined that the expansion will not exceed capacity of existing wastewater containment facilities. Per the Regional Water Quality Control Board (RWQCB), the current waste discharge permit with the RWQCB is filed under dairy operations. Based on the operational statement submitted by the Applicant, the operation should rescind their current waste discharge permit and refile under the cattle feedlot permit for waste discharge. This will ensure compliance of the operation with state regulations on waste dischargers. There are no new wastewater treatment facilities proposed for the subject expansion.

- D. Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals; or
- E. Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

FINDING: NO IMPACT

Per the Applicant, the anticipated amount of solid waste produced from the project will be one cubic yard per day. Review of the prepared Waste Management Plan and anticipated solid waste production by responsible agencies and departments did not indicate that the proposed expansion would generate solid waste in excess of state or local standards or in excess of the capacity of local infrastructure. The project will comply with federal, state and local management and reduction statutes and regulations related to solid waste.

XX. WILDFIRE

If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:

- A. Substantially impair an adopted emergency response plan or emergency evacuation plan, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects; or
- B. Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire; or
- C. Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment; or
- D. Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

FINDING: NO IMPACT:

According to the 2007 Fresno County Fire Hazard Severity Zones in LRA Map, published by the California Department of Forestry and Fire Protection, the subject site is not located in or near state responsibility areas or lands classified as very high fire hazard severity zones.

XXI. MANDATORY FINDINGS OF SIGNIFICANCE

Would the project:

- A. Have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?

FINDING: NO IMPACT:

The subject site is already developed with a cattle feedlot and the proposal is to expand the feedlot to allow additional cattle on the site. Due to the nature of the operation, fish and wildlife species habitat is not likely to be present on the site as there is constant human and cattle disturbance that would deter occupation of the site. No endangering or rare plant or animal has been identified on the project site. Therefore, the project does not have the potential to substantially degrade the quality of the environment.

- B. Have impacts that are individually limited, but cumulatively considerable? (“Cumulatively considerable” means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?

FINDING: LESS THAN SIGNIFICANT IMPACT WITH MITIGATION INCORPORATED:

Per the analysis conducted, cumulative impacts regarding Aesthetics, Cultural Resources, Hydrology and Water Quality, and Tribal Cultural Resources have been identified, but with implemented mitigation measures, the impacts have been reduced to a less than significant impact.

- C. Have environmental effects, which will cause substantial adverse effects on human beings, either directly or indirectly?

FINDING: NO IMPACT:

There were no identified environmental effects resulting from the project that will cause substantial adverse effects on human beings, either directly or indirectly.

CONCLUSION/SUMMARY

Based upon the Initial Study prepared for Classified Conditional Use Permit Application No. 3651, staff has concluded that the project will not have a significant effect on the environment. It has been determined that there would be no impacts to Agricultural and Forestry Resources, Biological Resources, Hazards and Hazardous Materials, Land Use Planning, Mineral Resources, Population and Housing, Public Services, Recreation and Wildfire.

Potential impacts related to Air Quality, Energy, Geology and Soils, Greenhouse Gas Emissions, Noise, Transportation, Utilities and Service Systems have been determined to be less than significant. Potential impacts relating to Aesthetics, Cultural Resources, Hydrology and Water Quality, and Tribal Cultural Resources have determined to be less than significant with compliance with implementation of Mitigation Measures.

A Mitigated Negative Declaration is recommended and is subject to approval by the decision-making body. The Initial Study is available for review at 2220 Tulare Street, Suite A, street level, located on the southwest corner of Tulare and “M” Street, Fresno, California.

TK

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County of Fresno

DEPARTMENT OF PUBLIC WORKS AND PLANNING
STEVEN E. WHITE, DIRECTOR

INITIAL STUDY ENVIRONMENTAL CHECKLIST FORM

- 1. Project title:**
Initial Study No. 7641 and Classified Conditional Use Permit Application No. 3651
- 2. Lead agency name and address:**
County of Fresno, Department of Public Works and Planning
2220 Tulare Street, 6th Floor
Fresno, CA 93721
- 3. Contact person and phone number:**
Thomas Kobayashi, Planner
(559) 600-4224
- 4. Project location:**
The project site is located at the southwest corner of West Annadale Avenue and South Chateau Fresno Avenue, easterly adjacent to the City of Fresno Wastewater Treatment Facility.
- 5. Project sponsor's name and address:**
Gerrit Roeloffs
9256 S. Valentine Avenue
Fresno, CA 93706
- 6. General Plan designation:**
Agriculture
- 7. Zoning:**
AE-20 (Exclusive Agricultural, 20-acre minimum parcel size)
- 8. Description of project: (Describe the whole action involved, including, but not limited to, later phases of the project, and any secondary, support, or off-site features necessary for its implementation. Attach additional sheets if necessary.)**
Allow the expansion of an existing pre-October 23, 2006 cattle feedlot to a total of 8,000 heads of cattle on an 88.77-acre parcel in the AE-20 (Exclusive Agricultural, 20-acre minimum parcel size) Zone District.
- 9. Surrounding land uses and setting: Briefly describe the project's surroundings:**
The subject site is in a mostly agricultural area with the City of Fresno Wastewater Treatment Facility located easterly adjacent to the project site. Additionally, there are single-family residences located throughout the region.
- 10. Other public agencies whose approval is required (g., permits, financing approval, or participation agreement.)**
County of Fresno Department of Public Works and Planning
- 11. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significance of impacts to tribal cultural resources, procedures regarding confidentiality, etc.?**

Per the provisions of Assembly Bill 52 (AB 52), participating California Native American Tribes were notified of the subject application and given the opportunity to enter into consultation with the County for the project. Concerns from participating California Native American tribes were not expressed or no response was received.

NOTE: Conducting consultation early in the CEQA process allows tribal governments, lead agencies, and project proponents to discuss the level of environmental review, identify and address potential adverse impacts to tribal cultural resources, and reduce the potential for delay and conflict in the environmental review process. (See Public Resources Code section 21080.3.2.) Information may also be available from the California Native American Heritage Commission's Sacred Lands File per Public Resources Code section 5097.96 and the California Historical Resources Information System administered by the California Office of Historic Preservation. Please also note that Public Resources Code section 21082.3(c) contains provisions specific to confidentiality.

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

- | | |
|---|---|
| <input type="checkbox"/> Aesthetics | <input type="checkbox"/> Agriculture and Forestry Resources |
| <input type="checkbox"/> Air Quality | <input type="checkbox"/> Biological Resources |
| <input type="checkbox"/> Cultural Resources | <input type="checkbox"/> Energy |
| <input type="checkbox"/> Geology/Soils | <input type="checkbox"/> Greenhouse Gas Emissions |
| <input type="checkbox"/> Hazards & Hazardous Materials | <input type="checkbox"/> Hydrology/Water Quality |
| <input type="checkbox"/> Land Use/Planning | <input type="checkbox"/> Mineral Resources |
| <input type="checkbox"/> Noise | <input type="checkbox"/> Population/Housing |
| <input type="checkbox"/> Public Services | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Transportation | <input type="checkbox"/> Tribal Cultural Resources |
| <input type="checkbox"/> Utilities/Service Systems | <input type="checkbox"/> Wildfire |
| <input type="checkbox"/> Mandatory Findings of Significance | |


DETERMINATION OF REQUIRED ENVIRONMENTAL DOCUMENT:

On the basis of this initial evaluation:


- I find that the proposed project **COULD NOT** have a significant effect on the environment. **A NEGATIVE DECLARATION WILL BE PREPARED.**
- I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because the Mitigation Measures described on the attached sheet have been added to the project. **A MITIGATED NEGATIVE DECLARATION WILL BE PREPARED.**
- I find the proposed project **MAY** have a significant effect on the environment, and an **ENVIRONMENTAL IMPACT REPORT** is required
- I find that as a result of the proposed project, no new effects could occur, or new Mitigation Measures would be required that have not been addressed within the scope of a previous Environmental Impact Report.

PERFORMED BY:

REVIEWED BY:



 Thomas Kobayashi, Planner
 Date: 3/11/21



 David Randall, Senior Planner
 Date: 3/12/21

**INITIAL STUDY
ENVIRONMENTAL CHECKLIST FORM
(Initial Study No. 7641 and
Classified Conditional Use Permit
Application No. 3651)**

The following checklist is used to determine if the proposed project could potentially have a significant effect on the environment. Explanations and information regarding each question follow the checklist.

1 = No Impact

2 = Less Than Significant Impact

3 = Less Than Significant Impact with Mitigation Incorporated

4 = Potentially Significant Impact

I. AESTHETICS

Except as provided in Public Resources Code Section 21099, would the project:

- 2 a) Have a substantial adverse effect on a scenic vista?
- 2 b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?
- 2 c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?
- 3 d) Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area?

II. AGRICULTURAL AND FORESTRY RESOURCES

In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology in Forest Protocols adopted by the California Air Resources Board. Would the project:

- 1 a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance, as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?
- 1 b) Conflict with existing zoning for agricultural use, or a Williamson Act Contract?
- 1 c) Conflict with existing zoning for forest land, timberland or timberland zoned Timberland Production?
- 1 d) Result in the loss of forest land or conversion of forest land to non-forest use?
- 1 e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?

III. AIR QUALITY

Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project:

- 2 a) Conflict with or obstruct implementation of the applicable Air Quality Plan?
- 2 b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?
- 2 c) Expose sensitive receptors to substantial pollutant concentrations?
- 2 d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

IV. BIOLOGICAL RESOURCES

Would the project:

- 1 a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?
- 1 b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?
- 1 c) Have a substantial adverse effect on state or federally-protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?
- 1 d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?
- 1 e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?
- 1 f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state Habitat Conservation Plan?

V. CULTURAL RESOURCES

Would the project:

- 3 a) Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?
- 3 b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?
- 3 c) Disturb any human remains, including those interred outside of formal cemeteries?

VI. ENERGY

Would the project:

- 2 a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?
- 2 b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

VII. GEOLOGY AND SOILS

Would the project:

- a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:
 - 1 i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?
 - 1 ii) Strong seismic ground shaking?
 - 1 iii) Seismic-related ground failure, including liquefaction?
 - 1 iv) Landslides?
- 2 b) Result in substantial soil erosion or loss of topsoil?
- 1 c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?
- 1 d) Be located on expansive soil as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?
- 1 e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?
- 1 f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

VIII. GREENHOUSE GAS EMISSIONS

Would the project:

- 2 a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?
- 2 b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

IX. HAZARDS AND HAZARDOUS MATERIALS

Would the project:

- 1 a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?
- 1 b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?
- 1 c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?
- 1 d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?
- 1 e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?
- 1 f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?
- 1 g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?

X. HYDROLOGY AND WATER QUALITY

Would the project:

- 3 a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?
- 3 b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?
- 1 c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would result in substantial erosion or siltation on or off site?
 - 1 i) Result in substantial erosion or siltation on- or off-site;
 - 1 ii) Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;
 - 1 iii) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or
 - 1 iv) Impede or redirect flood flows?
- 1 d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?
- 1 e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

XI. LAND USE AND PLANNING

Would the project:

- 1 a) Physically divide an established community?
- 1 b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

XII. MINERAL RESOURCES

Would the project:

- 1 a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?
- 1 b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local General Plan, Specific Plan or other land use plan?

XIII. NOISE

Would the project result in:

- 2 a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?
- 2 b) Generation of excessive ground-borne vibration or ground-borne noise levels?
- 1 c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

XIV. POPULATION AND HOUSING

Would the project:

- 1 a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and

businesses) or indirectly (for example, through extension of roads or other infrastructure)?

- 1 b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

XV. PUBLIC SERVICES

Would the project:

- 1 a) Result in substantial adverse physical impacts associated with the provision of new or physically-altered governmental facilities, or the need for new or physically-altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:
- 1 i) Fire protection?
1 ii) Police protection?
1 iii) Schools?
1 iv) Parks?
1 v) Other public facilities?

XVI. RECREATION

Would the project:

- 1 a) Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?
- 1 b) Include recreational facilities or require the construction or expansion of recreational facilities, which might have an adverse physical effect on the environment?

XVII. TRANSPORTATION

Would the project:

- 2 a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?
- 2 b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?
- 1 c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?
- 1 d) Result in inadequate emergency access?

XVIII. TRIBAL CULTURAL RESOURCES

Would the project:

- 3 a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:
- 3 i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or
- 3 ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public

Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?

XIX. UTILITIES AND SERVICE SYSTEMS

Would the project:

- 1 a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?
- 1 b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?
- 2 c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?
- 1 d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?
- 1 e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

XX. WILDFIRE

If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:

- 1 a) Substantially impair an adopted emergency response plan or emergency evacuation plan?
- 1 b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?
- 1 c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?
- 1 d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

XXI. MANDATORY FINDINGS OF SIGNIFICANCE

Would the project:

- 1 a) Have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?
- 2 b) Have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)
- 1 c) Have environmental effects, which will cause substantial adverse effects on human beings, either directly or indirectly?

Documents Referenced:

This Initial Study is referenced by the documents listed below. These documents are available for public review at the County of Fresno, Department of Public Works and Planning, Development Services and Capital Projects Division, 2220 Tulare Street, Suite A, Fresno, California (corner of M & Tulare Streets).

Fresno County General Plan, Policy Document and Final EIR

Fresno County Zoning Ordinance

Important Farmland 2016 Map, State Department of Conservation

Fresno County Fire Hazard Severity Zones in LRA 2007 Map, State Department of Forestry and Fire Protection

Air Quality Study, October 5, 2020, Innovative Ag Services

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Notice of Completion & Environmental Document Transmittal

Mail to: State Clearinghouse, P.O. Box 3044, Sacramento, CA 95812-3044 (916) 445-0613
For Hand Delivery/Street Address: 1400 Tenth Street, Sacramento, CA 95814

SCH #

Project Title: Initial Study No. 7641 and Classified Conditional Use Permit No. 3651

Lead Agency: Fresno County Department of Public Works and Planning Contact Person: Thomas Kobayashi
Mailing Address: 2220 Tulare Street, 6th Floor Phone: (559) 600-4224
City: Fresno Zip: 93721 County: Fresno

Project Location: County: Fresno City/Nearest Community: Fresno
Cross Streets: West Annadale Avenue and South Chateau Fresno Avenue Zip Code: 93706
Longitude/Latitude (degrees, minutes and seconds): ... Total Acres: 88.77
Assessor's Parcel No.: 327-200-10 Section: 19 Twp.: 14S Range: 19E Base:
Within 2 Miles: State Hwy #: Waterways: Lower Dry Creek Canal No. 150
Airports: Railways: Schools:

Document Type:

CEQA: [] NOP [] Draft EIR NEPA: [] NOI Other: [] Joint Document
[] Early Cons [] Supplement/Subsequent EIR [] EA [] Final Document
[] Neg Dec (Prior SCH No.) [] Draft EIS [] Other:
[X] Mit Neg Dec Other:

Local Action Type:

[] General Plan Update [] Specific Plan [] Rezone [] Annexation
[] General Plan Amendment [] Master Plan [] Prezone [] Redevelopment
[] General Plan Element [] Planned Unit Development [X] Use Permit [] Coastal Permit
[] Community Plan [] Site Plan [] Land Division (Subdivision, etc.) [] Other:

Development Type:

[] Residential: Units Acres
[] Office: Sq.ft. Acres Employees
[] Commercial: Sq.ft. Acres Employees
[] Industrial: Sq.ft. Acres Employees
[] Educational:
[] Recreational:
[] Water Facilities: Type MGD
[] Transportation: Type
[] Mining: Mineral
[] Power: Type MW
[] Waste Treatment: Type MGD
[] Hazardous Waste: Type
[X] Other: Agricultural

Project Issues Discussed in Document:

[X] Aesthetic/Visual [] Fiscal [X] Recreation/Parks [] Vegetation
[X] Agricultural Land [X] Flood Plain/Flooding [X] Schools/Universities [X] Water Quality
[X] Air Quality [X] Forest Land/Fire Hazard [X] Septic Systems [X] Water Supply/Groundwater
[X] Archeological/Historical [X] Geologic/Seismic [X] Sewer Capacity [X] Wetland/Riparian
[X] Biological Resources [X] Minerals [X] Soil Erosion/Compaction/Grading [] Growth Inducement
[] Coastal Zone [X] Noise [X] Solid Waste [X] Land Use
[X] Drainage/Absorption [X] Population/Housing Balance [X] Toxic/Hazardous [X] Cumulative Effects
[] Economic/Jobs [X] Public Services/Facilities [X] Traffic/Circulation [X] Other: Wildfire/Energy

Present Land Use/Zoning/General Plan Designation:

Cattle Feedlot / AE-20 (Exclusive Agricultural, 20-acre minimum parcel size) / Agricultural

Project Description: (please use a separate page if necessary)

The project proposes to allow expansion of an existing pre-October 23, 2006 cattle feedlot to a total of 8,000 heads of cattle on an 88.77-acre parcel in the AE-20 (Exclusive Agricultural, 20-acre minimum parcel size) Zone District.

Note: The State Clearinghouse will assign identification numbers for all new projects. If a SCH number already exists for a project (e.g. Notice of Preparation or previous draft document) please fill in.

Reviewing Agencies Checklist

Lead Agencies may recommend State Clearinghouse distribution by marking agencies below with an "X".
If you have already sent your document to the agency please denote that with an "S".

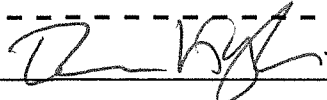
- | | |
|--|--|
| <input type="checkbox"/> Air Resources Board | <input type="checkbox"/> Office of Historic Preservation |
| <input type="checkbox"/> Boating & Waterways, Department of | <input type="checkbox"/> Office of Public School Construction |
| <input type="checkbox"/> California Emergency Management Agency | <input type="checkbox"/> Parks & Recreation, Department of |
| <input type="checkbox"/> California Highway Patrol | <input type="checkbox"/> Pesticide Regulation, Department of |
| <input checked="" type="checkbox"/> Caltrans District # _____ | <input type="checkbox"/> Public Utilities Commission |
| <input type="checkbox"/> Caltrans Division of Aeronautics | <input checked="" type="checkbox"/> Regional WQCB # _____ |
| <input type="checkbox"/> Caltrans Planning | <input type="checkbox"/> Resources Agency |
| <input type="checkbox"/> Central Valley Flood Protection Board | <input type="checkbox"/> Resources Recycling and Recovery, Department of |
| <input type="checkbox"/> Coachella Valley Mtns. Conservancy | <input type="checkbox"/> S.F. Bay Conservation & Development Comm. |
| <input type="checkbox"/> Coastal Commission | <input type="checkbox"/> San Gabriel & Lower L.A. Rivers & Mtns. Conservancy |
| <input type="checkbox"/> Colorado River Board | <input type="checkbox"/> San Joaquin River Conservancy |
| <input type="checkbox"/> Conservation, Department of | <input type="checkbox"/> Santa Monica Mtns. Conservancy |
| <input type="checkbox"/> Corrections, Department of | <input type="checkbox"/> State Lands Commission |
| <input type="checkbox"/> Delta Protection Commission | <input type="checkbox"/> SWRCB: Clean Water Grants |
| <input type="checkbox"/> Education, Department of | <input checked="" type="checkbox"/> SWRCB: Water Quality |
| <input type="checkbox"/> Energy Commission | <input type="checkbox"/> SWRCB: Water Rights |
| <input checked="" type="checkbox"/> Fish & Game Region # _____ | <input type="checkbox"/> Tahoe Regional Planning Agency |
| <input type="checkbox"/> Food & Agriculture, Department of | <input type="checkbox"/> Toxic Substances Control, Department of |
| <input type="checkbox"/> Forestry and Fire Protection, Department of | <input type="checkbox"/> Water Resources, Department of |
| <input type="checkbox"/> General Services, Department of | <input checked="" type="checkbox"/> Other: <u>U.S. Fish and Wildlife Service</u> |
| <input type="checkbox"/> Health Services, Department of | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> Housing & Community Development | |
| <input type="checkbox"/> Native American Heritage Commission | |

Local Public Review Period (to be filled in by lead agency)

Starting Date March 12, 2021 Ending Date April 12, 2021

Lead Agency (Complete if applicable):

Consulting Firm: <u>Fresno County</u>	Applicant: <u>Gerrit Roeloffs</u>
Address: <u>2220 Tulare Street, 6th Floor</u>	Address: <u>9256 S. Valentine Avenue</u>
City/State/Zip: <u>Fresno, CA 93721</u>	City/State/Zip: <u>Fresno, CA 93706</u>
Contact: <u>Thomas Kobayashi</u>	Phone: <u>(559) 280-8053</u>
Phone: <u>(559) 600-4224</u>	

Signature of Lead Agency Representative:  Date: 3/11/21

Authority cited: Section 21083, Public Resources Code. Reference: Section 21161, Public Resources Code.

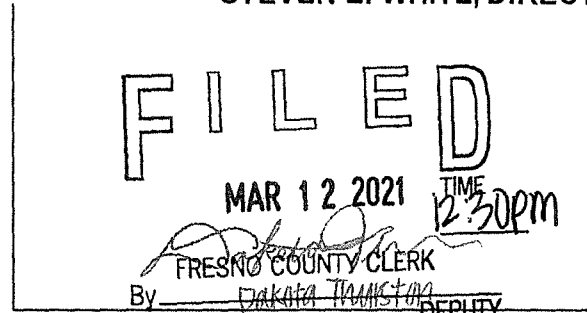


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County of Fresno

DEPARTMENT OF PUBLIC WORKS AND PLANNING
STEVEN E. WHITE, DIRECTOR

NOTICE OF INTENT TO ADOPT A MITIGATED NEGATIVE DECLARATION



For County Clerk's Stamp

Notice is hereby given that the County of Fresno has prepared Initial Study Application (IS) No. 7641 pursuant to the requirements of the California Environmental Quality Act for the following proposed project:

INITIAL STUDY APPLICATION NO. 7641 and CLASSIFIED CONDITIONAL USE PERMIT APPLICATION NO. 3651 filed by **GERRIT ROELOFFS**, proposing to allow expansion of an existing pre-October 23, 2007 cattle feedlot to a total of 8,000 heads of cattle on an 88.77-acre parcel in the AE-20 (Exclusive Agricultural, 20-acre minimum parcel size) Zone District. The project site is located at the southwest corner of West Annadale Avenue and South Chateau Fresno Avenue, easterly adjacent to the City of Fresno Wastewater Treatment Facility (SUP. DIST. 1) (APN 327-200-10) (2585 S. Chateau Fresno Avenue, Fresno, CA). Adopt the Mitigated Negative Declaration prepared, based on Initial Study No. 7651, and take action on Classified Conditional Use Permit Application No. 3651 with Findings and Conditions.

(hereafter, the "Proposed Project")

The County of Fresno has determined that it is appropriate to adopt a Mitigated Negative Declaration for the Proposed Project. The purpose of this Notice is to (1) provide notice of the availability of IS Application No. 7641 and the draft Mitigated Negative Declaration, and request written comments thereon; and (2) provide notice of the public hearing regarding the Proposed Project.

Public Comment Period

The County of Fresno will receive written comments on the Proposed Project and Mitigated Negative Declaration from March 12, 2021 to April 12, 2021.

Email written comments to TKobayashi@FresnoCountyCA.gov, or mail comments to:

Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
Attn: Thomas Kobayashi
2220 Tulare Street, Suite A
Fresno, CA 93721

IS Application No. 7641 and the draft Mitigated Negative Declaration may be viewed at the above address Monday through Thursday, 9:00 a.m. to 5:00 p.m., and Friday, 8:30 a.m. to 12:30 p.m. (except holidays), or at www.co.fresno.ca.us/initialstudies An electronic copy of the

E202110000047

draft Mitigated Negative Declaration for the Proposed Project may be obtained from Thomas Kobayashi at the addresses above.

*** SPECIAL NOTICE REGARDING PUBLIC PARTICIPATION DUE TO COVID-19 ***

Due to the current Shelter-in-Place Order covering the State of California and Social Distance Guidelines issued by Federal, State, and Local Authorities, the County is implementing the following changes for attendance and public comment at all Planning Commission meetings until notified otherwise. The Board chambers will be open to the public. Any member of the Planning Commission may participate from a remote location by teleconference pursuant to Governor Gavin Newsom's executive Order N-25-20.

Instructions about how to participate in the meeting will be posted to:

<https://www.co.fresno.ca.us/planningcommission> 72 hours prior to the meeting date.

- *The meeting will be broadcast. You are strongly encouraged to listen to the Planning Commission meeting at: <http://www.co.fresno.ca.us/PlanningCommission>.*
- *If you attend the Planning Commission meeting in person, you will be required to maintain appropriate social distancing, i.e., maintain a 6-foot distance between yourself and other individuals. Due to Shelter-in-Place requirements, the number of people in the Board chambers will be limited. Members of the public who wish to make public comments will be allowed in on a rotating basis.*
- *If you choose not to attend the Planning Commission meeting but desire to make general public comment on a specific item on the agenda, you may do so as follows:*

Written Comments

- *Members of the public are encouraged to submit written comments to: Planningcommissioncomments@fresnocountyca.gov. Comments should be submitted as soon as possible, but not later than 8:30am (15 minutes before the start of the meeting). You will need to provide the following information:*
 - *Planning Commission Date*
 - *Item Number*
 - *Comments*
- *Please submit a separate email for each item you are commenting on.*
- *Please be aware that public comments received that do not specify a particular agenda item will be made part of the record of proceedings as a general public comment.*
- *If a written comment is received after the start of the meeting, it will be made part of the record of proceedings, provided that such comments are received prior to the end of the Planning Commission meeting.*
- *Written comments will be provided to the Planning Commission. Comments received during the meeting may not be distributed to the Planning Commission until after the meeting has concluded.*

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If the agenda item involves a quasi-judicial matter or other matter that includes members of the public as parties to a hearing, those parties should make arrangements with the Planning Commission Clerk to provide any written materials or presentation in advance of the meeting date so that the materials may be presented to the Planning Commission for consideration. Arrangements should be made by contacting the Planning Commission Clerk at (559) 600-4230

PROGRAM ACCESSIBILITY AND ACCOMMODATIONS: The Americans with Disabilities Act (ADA) Title II covers the programs, services, activities and facilities owned or operated by state and local governments like the County of Fresno ("County"). Further, the County promotes equality of opportunity and full participation by all persons, including persons with disabilities. Towards this end, the County works to ensure that it provides meaningful access to people with disabilities to every program, service, benefit, and activity, when viewed in its entirety. Similarly, the County also works to ensure that its operated or owned facilities that are open to the public provide meaningful access to people with disabilities.

To help ensure this meaningful access, the County will reasonably modify policies/ procedures and provide auxiliary aids/services to persons with disabilities. If, as an attendee or participant at the meeting, you need additional accommodations such as an American Sign Language (ASL) interpreter, an assistive listening device, large print material, electronic materials, Braille materials, or taped materials, please contact the Current Planning staff as soon as possible during office hours at (559) 600-4497 or at imoreno@fresnocountyca.gov. Reasonable requests made at least 48 hours in advance of the meeting will help to ensure accessibility to this meeting. Later requests will be accommodated to the extent reasonably feasible.

Public Hearing

The Planning Commission will hold a public hearing to consider approving the Proposed Project and the Mitigated Negative Declaration on April 22, 2021, at 8:45 a.m., or as soon thereafter as possible, in Room 301, Hall of Records, 2281 Tulare Street, Fresno, California 93721. Interested persons are invited to appear at the hearing and comment on the Proposed Project and draft Mitigated Negative Declaration.

For questions please call Thomas Kobayashi (559) 600-4224.

Published: March 12, 2021

File original and one copy with: Fresno County Clerk 2221 Kern Street Fresno, California 93721		Space Below For County Clerk Only. CLK-2046.00 E04-73 R00-00	
Agency File No: IS 7641	LOCAL AGENCY PROPOSED MITIGATED NEGATIVE DECLARATION		County Clerk File No: E-
Responsible Agency (Name): Fresno County	Address (Street and P.O. Box): 2220 Tulare St. Sixth Floor	City: Fresno	Zip Code: 93721
Agency Contact Person (Name and Title): Thomas Kobayashi Planner	Area Code: 559	Telephone Number: 600-4224	Extension: N/A
Project Applicant/Sponsor (Name): Gerrit Roeloffs	Project Title: Classified Conditional Use Permit Application No. 3651		
Project Description: Allow expansion of an existing pre-October 23, 2007 cattle feedlot to a total of 8,000 heads of cattle on an 88.77-acre parcel in the AE-20 (Exclusive Agricultural, 20-acre minimum parcel size) Zone District. The project site is located at the southwest corner of West Annadale Avenue and South Chateau Fresno Avenue, easterly adjacent to the City of Fresno Wastewater Treatment Facility (APN 327-200-10) (2585 S. Chateau Fresno, Fresno, CA).			
Justification for Negative Declaration: Based upon the Initial Study prepared for Classified Conditional Use Permit Application No. 3651, staff has concluded that the project will not have a significant effect on the environment. It has been determined that there would be no impacts to Agricultural and Forestry Resources, Biological Resources, Hazards and Hazardous Materials, Land Use Planning, Mineral Resources, Population and Housing, Public Services, Recreation and Wildfire. Potential impacts related to Air Quality, Energy, Geology and Soils, Greenhouse Gas Emissions, Noise, Transportation, Utilities and Service Systems have been determined to be less than significant. Potential impacts relating to Aesthetics, Cultural Resources, Hydrology and Water Quality, and Tribal Cultural Resources have determined to be less than significant with compliance with implementation of Mitigation Measures.			
FINDING: The proposed project will not have a significant impact on the environment.			
Newspaper and Date of Publication: Fresno Business Journal – March 12, 2021		Review Date Deadline: Planning Commission – April 22, 2021	
Date:	Type or Print Signature: David Randall Senior Planner	Submitted by (Signature): Thomas Kobayashi Planner	

State 15083, 15085

County Clerk File No.: _____

**LOCAL AGENCY
MITIGATED NEGATIVE DECLARATION**



County of Fresno

DEPARTMENT OF PUBLIC WORKS AND PLANNING
STEVEN E. WHITE, DIRECTOR

NOTICE OF DETERMINATION

To: Office of Planning and Research
1400 Tenth Street, Room 121
Sacramento, CA 95814

County Clerk, County of Fresno
2221 Kern Street
Fresno, CA 93721

From: Fresno County Department of Public Works and Planning, Development Services and Capital Projects
2220 Tulare Street (corner of Tulare and "M") Suite "A", Fresno, CA 93721

Subject: Filing of Notice of Determination in compliance with Section 21152 of the Public Resource Code

Project: Initial Study Application No. 7641, Classified Conditional Use Permit Application No. 3651

Location: The project site is located at the southwest corner of West Annadale Avenue and South Chateau Fresno Avenue, easterly adjacent to the City of Fresno Wastewater Treatment Facility (SUP. DIST. 1) (APN 327-200-10) (2585 S. Chateau Fresno Avenue, Fresno, CA).

Sponsor: Gerrit Roeloffs

Description: Allow expansion of an existing pre-October 23, 2007 cattle feedlot to a total of 8,000 heads of cattle on an 88.77-acre parcel in the AE-20 (Exclusive Agricultural, 20-acre minimum parcel size) Zone District.

This is to advise that the County of Fresno (Lead Agency Responsible Agency) has approved the above described project on February 25, 2021, and has made the following determination:

1. The project **will** **will not** have a significant effect on the environment.
2. An Environmental Impact Report (EIR) **was not** prepared for this project pursuant to the provisions of CEQA. / A Mitigated Negative Declaration **was** prepared for this project pursuant to the provisions of CEQA.
3. Mitigation Measures **were** **were not** made a condition of approval for the project.
4. A statement of Overriding Consideration **was** **was not** adopted for this project.

This is to certify that the Initial Study with comments and responses and record of project approval is available to the General Public at Fresno County Department of Public Works and Planning, 2220 Tulare Street, Suite A, Corner of Tulare and "M" Streets, Fresno, California.

Thomas Kobayashi, Planner
(559) 600-4224 / TKobayashi@FresnoCountyCA.gov

Date

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DRAFT



County of Fresno

DEPARTMENT OF PUBLIC WORKS AND PLANNING
STEVEN E. WHITE, DIRECTOR

DATE: December 6, 2019

TO: Department of Public Works and Planning, Attn: Steven E. White, Director
Department of Public Works and Planning, Attn: Bernard Jimenez, Assistant Director
Department of Public Works and Planning, Attn: John R. Thompson, Assistant Director
Development Services and Capital Projects, Attn: William M. Kettler, Division Manager
Development Services and Capital Projects, Attn: Chris Motta, Principal Planner
Development Services and Capital Projects, Current Planning, Attn: Marianne Mollring, Senior Planner
Development Services and Capital Projects, Policy Planning, ALCC, Attn: Mohammad Khorsand, Senior Planner
Development Services and Capital Projects, Zoning & Permit Review, Attn: Daniel Gutierrez/James Anders
Development Services and Capital Projects, Site Plan Review, Attn: Hector Luna
Development Services and Capital Projects, Building & Safety/Plan Check, Attn: Chuck Jonas
Resources Division, Solid Waste, Attn: Amina Flores-Becker
Development Engineering, Attn: Laurie Kennedy, Grading/Mapping
Road Maintenance and Operations, Attn: John Thompson/Nadia Lopez
Design Division, Transportation Planning, Attn: Mohammad Alimi/Dale Siemer/Brian Spaunhurst
Water and Natural Resources Division, Attn: Glenn Allen, Division Manager; Roy Jimenez
Department of Public Health, Environmental Health Division, Attn: Deep Sidhu/Steven Rhodes
Agricultural Commissioner, Attn: Melissa Cregan
City of Fresno, Planning & Development Department, Attn: Mike Sanchez, Assistant Director, Current Planning, Dan Zack, Assistant Director, Advanced Planning
City of Fresno, Public Works Department, Attn: Scott Mozier, Louise Gilio
U.S. Fish and Wildlife Service, San Joaquin Valley Division, Attn: Matthew Nelson, Biologist
CA Regional Water Quality Control Board, Attn: Matt Scroggins
CA Department of Fish and Wildlife, Attn: Craig Bailey, Environmental Scientist & R4CEQA@wildlife.ca.gov
State Water Resources Control Board, Division of Drinking Water, Fresno District, Attn: Jose Robledo, Caitlin Juarez
Dumna Wo Wah Tribal Government, Attn: Robert Ledger, Tribal Chairman/Eric Smith, Cultural Resources Manager/Chris Acree, Cultural Resources Analyst
Picayune Rancheria of the Chukchansi Indians, Attn: Heather Airey/Cultural Resources Director
Santa Rosa Rancheria Tachi Yokut Tribe, Attn: Ruben Barrios, Tribal Chairman/Hector Franco, Director/Shana Powers, Cultural Specialist II
Table Mountain Rancheria, Attn: Robert Pennell, Cultural Resources Director/Kim Taylor, Cultural Resources Department/Sara Barnett, Cultural Resources

Department
San Joaquin Valley Unified Air Pollution Control District (PIC-CEQA Division),
Attn: PIC Supervisor
Fresno Irrigation District, Attn: Engr-Review@fresnoirrigation.com
Fresno Metropolitan Flood Control District, Attn:
developmentreview@fresnofloodcontrol.org
Kings River Conservation District, Attn: Rick Hoelzel
North Central Fire Protection District, Attn: George Mavrikis, Fire Marshall

FROM: Thomas Kobayashi, Planner
Development Services and Capital Projects Division

SUBJECT: Initial Study Application No. 7641 and Classified Conditional Use Permit Application
No. 3651

APPLICANT: Gerrit Roeloffs

DUE DATE: December 23, 2019

The Department of Public Works and Planning, Development Services and Capital Projects Division is reviewing the subject application proposing to allow expansion of an existing pre-October 23, 2007 cattle feedlot from 2,500 heads of cattle to 8,000 heads of cattle on an 88.77-acre parcel in the AE-20 (Exclusive Agricultural, 20-acre minimum parcel size) Zone District (APN: 327-200-10) (2585 S. Chateau Fresno, Fresno, CA).

The Department is also reviewing for environmental effects, as mandated by the California Environmental Quality Act (CEQA) and for conformity with plans and policies of the County.

Based upon this review, a determination will be made regarding conditions to be imposed on the project, including necessary on-site and off-site improvements.

We must have your comments by **December 23, 2019**. Any comments received after this date may not be used.

NOTE - THIS WILL BE OUR ONLY REQUEST FOR WRITTEN COMMENTS. If you do not have comments, please provide a "NO COMMENT" response to our office by the above deadline (e-mail is also acceptable; see email address below).

Please address any correspondence or questions related to environmental and/or policy/design issues to me, Thomas Kobayashi, Planner, Development Services and Capital Projects Division, Fresno County Department of Public Works and Planning, 2220 Tulare Street, Sixth Floor, Fresno, CA 93721, or call (559) 600-4224, or email TKobayashi@FresnoCountyCA.gov.

TK
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Activity Code (Internal Review):2381

Enclosures



Date Received: 5/16/19 CUP 3651
IS 7641
(Application No.)

Fresno County Department of Public Works and Planning

MAILING ADDRESS:
 Department of Public Works and Planning
 Development Services Division
 2220 Tulare St., 6th Floor
 Fresno, Ca. 93721

LOCATION:
 Southwest corner of Tulare & "M" Streets, Suite A
 Street Level
 Fresno Phone: (559) 600-4497
 Toll Free: 1-800-742-1011 Ext. 0-4497

APPLICATION FOR:

- Pre-Application (Type) _____
- Amendment Application Director Review and Approval
- Amendment to Text for 2nd Residence
- Conditional Use Permit Determination of Merger
- Variance (Class)/Minor Variance Agreements
- Site Plan Review/Occupancy Permit ALCC/RLCC
- No Shoot/Dog Leash Law Boundary Other _____
- General Plan Amendment/Specific Plan/SP Amendment)
- Time Extension for _____

DESCRIPTION OF PROPOSED USE OR REQUEST:

Expansion of an existing feedlot to a total of 8,000 cattle on an 88.77-acre parcel.

CEQA DOCUMENTATION: Initial Study PER N/A

PLEASE USE FILL-IN FORM OR PRINT IN BLACK INK. Answer all questions completely. Attach required site plans, forms, statements, and deeds as specified on the Pre-Application Review. Attach Copy of Deed, including Legal Description.

LOCATION OF PROPERTY: North _____ side of North Avenue
 between _____ and West side of Château Fresno
 Street address: 2585 S. Château Fresno Avenue, Fresno CA

APN: 327-200-10 Parcel size: 88.77 acre Section(s)-Twp/Rg: S 19 - T 14S S/R 19 E

ADDITIONAL APN(s): _____

I, St. Ralph (signature), declare that I am the owner, or authorized representative of the owner, of the above described property and that the application and attached documents are in all respects true and correct to the best of my knowledge. The foregoing declaration is made under penalty of perjury.

<u>Michael H. and Nora Bottasso</u>	<u>3221 S. Chateau Fresno</u>	<u>Fresno</u>	<u>93706</u>	
Owner (Print or Type)	Address	City	Zip	Phone
<u>Gerrit Roeloffs</u>	<u>9256 S. Valentine</u>	<u>Fresno</u>	<u>93706</u>	<u>554-280-6053</u>
Applicant (Print or Type)	Address	City	Zip	Phone
<u>Warren Hutchings</u>	<u>1201 Delta View Rd, Suite 5</u>	<u>Hanford</u>	<u>93230</u>	<u>559-587-2800</u>
Representative (Print or Type)	Address	City	Zip	Phone

CONTACT EMAIL: whutchings@innovativeag.net

OFFICE USE ONLY (PRINT FORM ON GREEN PAPER)

Application Type / No.: CUP 3651 Fee: \$ 4,569.00
 Application Type / No.: PRE-APP 34582 Fee: \$ 247.00
 Application Type / No.: _____ Fee: \$ _____
 Application Type / No.: _____ Fee: \$ _____
 PER/Initial Study No.: IS 7641 Fee: \$ 3,401.00
 Ag Department Review: _____ Fee: \$ 93.00
 Health Department Review: _____ Fee: \$ 92.00
 Received By: Thomas K. Invoice No.: 119049 TOTAL: \$ 9,308.00

UTILITIES AVAILABLE:

WATER: Yes / No
 Agency: _____
 SEWER: Yes / No
 Agency: _____

STAFF DETERMINATION: This permit is sought under Ordinance Section: _____ Sect-Twp/Rg: _____ - T _____ S/R _____ E

Related Application(s): _____ APN # _____ - _____ - _____
 Zone District: AE-20 APN # _____ - _____ - _____
 Parcel Size: 88.77 Acres APN # _____ - _____ - _____



Development Services
and
Capital Projects Division

Mail To:
Innovative Ag Services, LLC
c/o Warren Hutchings
1201 Delta View, Suite 5
Hanford, CA 93230
Email:
whutchings@innovativeag.net

Pre-Application Review
Department of Public Works and Planning

NUMBER: 39582
APPLICANT: Ag Services LLC, c/o Warren Hutchings
PHONE: (559) 587-2800

PROPERTY LOCATION: 2585 S CHATEAU FRESNO AVE FRESNO CA 93706
APN: 327 - 200 - 10 ALCC: No Yes # 5654 VIOLATION NO. N/A
CNEL: No X Yes (level) LOW WATER: No X Yes WITHIN 1/2 MILE OF CITY: No Yes FRESNO
ZONE DISTRICT: AE-20; SRA: No X Yes HOMESITE DECLARATION REQ'D.: No X Yes
LOT STATUS:

Zoning: (X) Conforms; () Legal Non-Conforming lot; () Deed Review Req'd (see Form #236)
Merger: May be subject to merger: No X Yes ZM# Initiated In process
Map Act: (PLA 06-27) Lot of Rec. Map; () on '72 rolls; () other ; () Deeds Req'd (see Form #236)
SCHOOL FEES: No Yes X DISTRICT: Central Unified Trustee Area 6, State Center CC Trustee Area 2 PERMIT JACKET: No Yes X
FMFCD FEE AREA: (X) Outside () District No.: FLOOD PRONE: No X AREA OF MINIMAL FLOOD HAZARD Yes
PROPOSAL: CONDITIONAL USE PERMIT TO ALLOW THE EXPANSION OF AN EXISTING PRE - OCTOBER 23, 2007 FEEDLOT TO A TOTAL OF 8,000 CATTLE.

COMMENTS:
ORD. SECTION(S): 816.3-X & 869.2 BY: OBER RAMIREZ DATE: 11/01/18

GENERAL PLAN POLICIES:
LAND USE DESIGNATION: Agriculture () GPA: () MINOR VA:
COMMUNITY PLAN: () AA: (X) HD: \$ 992.00
REGIONAL PLAN: (X) CUP: \$ 4,569.00 (X) AG COMM: \$ 93.00
SPECIFIC PLAN: () DRA: () ALCC:
SPECIAL POLICIES: () VA: (X) IS PER*: \$ 3,901.00
SPHERE OF INFLUENCE: () AT: () Viol. (35%):
ANNEX REFERRAL (LU-G17/MOU): () TT: () Other:

COMMENTS:
Filing Fee: \$ 9,555.00
Pre-Application Fee: - \$247.00
Total County Filing Fee: \$ 9,308.00

FILING REQUIREMENTS:
(X) Land Use Applications and Fees
(X) This Pre-Application Review form
(X) Copy of Deed / Legal Description
(X) Photographs
() Letter Verifying Deed Review
(X) IS Application and Fees* * Upon review of project materials, an Initial Study (IS) with fees may be required.
(X) Site Plans - 4 copies (folded to 8.5"x11") + 1 - 8.5"x11" reduction
(X) Floor Plan & Elevations - 4 copies (folded to 8.5"x11") + 1 - 8.5"x11" reduction
(X) Project Description / Operational Statement (Typed)
() Statement of Variance Findings
() Statement of Intended Use (ALCC)
() Dependency Relationship Statement
() Resolution/Letter of Release from City of
Referral Letter #

OTHER FILING FEES:
(X) Archaeological Inventory Fee: \$75 at time of filing
() (Separate check to Southern San Joaquin Valley Info. Center)
(X) CA Dept. of Fish & Wildlife (CDFW): (\$50) (\$50+\$2,280.75)
() (Separate check to Fresno County Clerk for pass-thru to CDFW. Must be paid prior to IS closure and prior to setting hearing date.)

BY: Thomas Kobayashi DATE: 11/19/18
PHONE NUMBER: (559)

NOTE: THE FOLLOWING REQUIREMENTS MAY ALSO APPLY:
() COVENANT (X) SITE PLAN REVIEW
() MAP CERTIFICATE (X) BUILDING PLANS
() PARCEL MAP (X) BUILDING PERMITS
() FINAL MAP () WASTE FACILITIES PERMIT
() FMFCD FEES () SCHOOL FEES
(X) ALUC or ALCC () OTHER (see reverse side)

PLU # 113 Fee: \$247.00
Note: This fee will apply to the application fee if the application is submitted within six (6) months of the date on this receipt.

RECEIVED
COUNTY OF FRESNO
MAY 16 2019
DEPARTMENT OF PUBLIC WORKS
AND PLANNING
DEVELOPMENT SERVICES DIVISION

OVER.....



RECEIVED
COUNTY OF FRESNO
MAY 16 2019

County of Fresno

DEPARTMENT OF PUBLIC WORKS
AND PLANNING
DEVELOPMENT SERVICES DIVISION

DEPARTMENT OF PUBLIC WORKS AND PLANNING
STEVEN E. WHITE, DIRECTOR

INITIAL STUDY APPLICATION

INSTRUCTIONS

Answer all questions completely. An incomplete form may delay processing of your application. Use additional paper if necessary and attach any supplemental information to this form. Attach an operational statement if appropriate. This application will be distributed to several agencies and persons to determine the potential environmental effects of your proposal. Please complete the form in a legible and reproducible manner (i.e., USE BLACK INK OR TYPE).

OFFICE USE ONLY	
IS No.	<u>7641</u>
Project No(s).	<u>CUP 3651</u>
Application Rec'd.:	_____

GENERAL INFORMATION

- Property Owner:** Gerrit Roeloffs **Phone/Fax:** _____
Mailing Address: 9256 S. Valentine, Fresno, CA 93706
Street *City* *State/Zip*
- Applicant:** Warren Hutchings c/o Innovative Ag Services, LLC **Phone/Fax:** 559-587-2800
Mailing Address: 1201 Delta View Road, Ste 5, Hanford, CA 93230
Street *City* *State/Zip*
- Representative:** Same as above **Phone/Fax:** _____
Mailing Address: _____
Street *City* *State/Zip*
- Proposed Project:** Expansion of an existing feedlot to a total of 8,000 cattle.

- Project Location:** North side of North Avenue and West side of Château Fresno

- Project Address:** 2585 S. Chateau Fresno Avenue, Fresno CA

- Section/Township/Range:** 19 / 14S / 19
- Parcel Size:** 88.77 acres
- Assessor's Parcel No.** 327-200-10

17. What land use(s) in the area may be impacted by your Project?: None

18. What land use(s) in the area may impact your project?: None

19. Transportation:

NOTE: The information below will be used in determining traffic impacts from this project. The data may also show the need for a Traffic Impact Study (TIS) for the project.

A. Will additional driveways from the proposed project site be necessary to access public roads?
 Yes x No

B. Daily traffic generation:

I. Residential - Number of Units	<u>2</u>
Lot Size	<u>N/A</u>
Single Family	<u>Yes</u>
Apartments	<u>No</u>

II. Commercial - Number of Employees	<u>9</u>
Number of Salesmen	<u>0</u>
Number of Delivery Trucks	<u>1</u>
Total Square Footage of Building	<u>5000 Sq Ft Milk Barn</u>

III. Describe and quantify other traffic generation activities: _____
There are no other traffic activities to describe.

20. Describe any source(s) of noise from your project that may affect the surrounding area: _____
There are no sources of noise from the project that will affect the area.

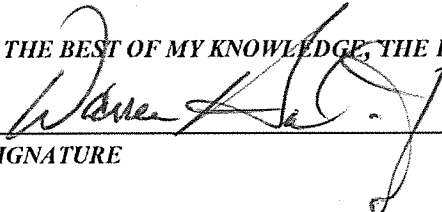
21. Describe any source(s) of noise in the area that may affect your project: _____
There are no sources of noise in the area that may affect the project.

22. Describe the probable source(s) of air pollution from your project: _____
The increase of animal numbers.

23. Proposed source of water:
() private well
() community system³--name: _____

24. Anticipated volume of water to be used (gallons per day)²: 68,000 gallons/per day _____
25. Proposed method of liquid waste disposal:
 (X) septic system/individual
 () community system³-name _____
26. Estimated volume of liquid waste (gallons per day)²: 1,000 gallons / per day _____
27. Anticipated type(s) of liquid waste: Manure _____
28. Anticipated type(s) of hazardous wastes²: N/A _____
29. Anticipated volume of hazardous wastes²: N/A _____
30. Proposed method of hazardous waste disposal²: N/A _____
31. Anticipated type(s) of solid waste: Manure _____
32. Anticipated amount of solid waste (tons or cubic yards per day): 1 cubic yard / per day _____
33. Anticipated amount of waste that will be recycled (tons or cubic yards per day): 1 cubic yard / per day _____
34. Proposed method of solid waste disposal: Sell off site _____
35. Fire protection district(s) serving this area: Cal Fire _____
36. Has a previous application been processed on this site? If so, list title and date: No _____
37. Do you have any underground storage tanks (except septic tanks)? Yes _____ No _____
38. If yes, are they currently in use? Yes _____ No _____

TO THE BEST OF MY KNOWLEDGE, THE FOREGOING INFORMATION IS TRUE.

 _____ 05-10-2019 _____
 SIGNATURE DATE

¹Refer to Development Services Conference Checklist
²For assistance, contact Environmental Health System, (559) 600-3357
³For County Service Areas or Waterworks Districts, contact the Resources Division, (559) 600-4259

NOTICE AND ACKNOWLEDGMENT

INDEMNIFICATION AND DEFENSE

The Board of Supervisors has adopted a policy that applicants should be made aware that they may be responsible for participating in the defense of the County in the event a lawsuit is filed resulting from the County's action on your project. You may be required to enter into an agreement to indemnify and defend the County if it appears likely that litigation could result from the County's action. The agreement would require that you deposit an appropriate security upon notice that a lawsuit has been filed. In the event that you fail to comply with the provisions of the agreement, the County may rescind its approval of the project.

STATE FISH AND WILDLIFE FEE

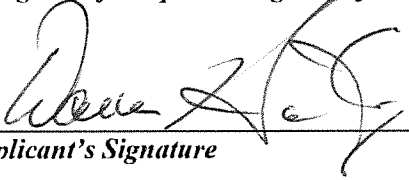
State law requires that specified fees (effective January 1, 2017: \$3,078.25 for an EIR; \$2,216.25 for a Mitigated/Negative Declaration) be paid to the California Department of Fish and Wildlife (CDFW) for projects which must be reviewed for potential adverse effect on wildlife resources. The County is required to collect the fees on behalf of CDFW. A \$50.00 handling fee will also be charged, as provided for in the legislation, to defray a portion of the County's costs for collecting the fees.

The following projects are exempt from the fees:

- 1. All projects statutorily exempt from the provisions of CEQA (California Environmental Quality Act).*
- 2. All projects categorically exempt by regulations of the Secretary of Resources (State of California) from the requirement to prepare environmental documents.*

A fee exemption may be issued by CDFW for eligible projects determined by that agency to have "no effect on wildlife." That determination must be provided in advance from CDFG to the County at the request of the applicant. You may wish to call the local office of CDFG at (559) 222-3761 if you need more information.

Upon completion of the Initial Study you will be notified of the applicable fee. Payment of the fee will be required before your project will be forwarded to the project analyst for scheduling of any required hearings and final processing. The fee will be refunded if the project should be denied by the County.

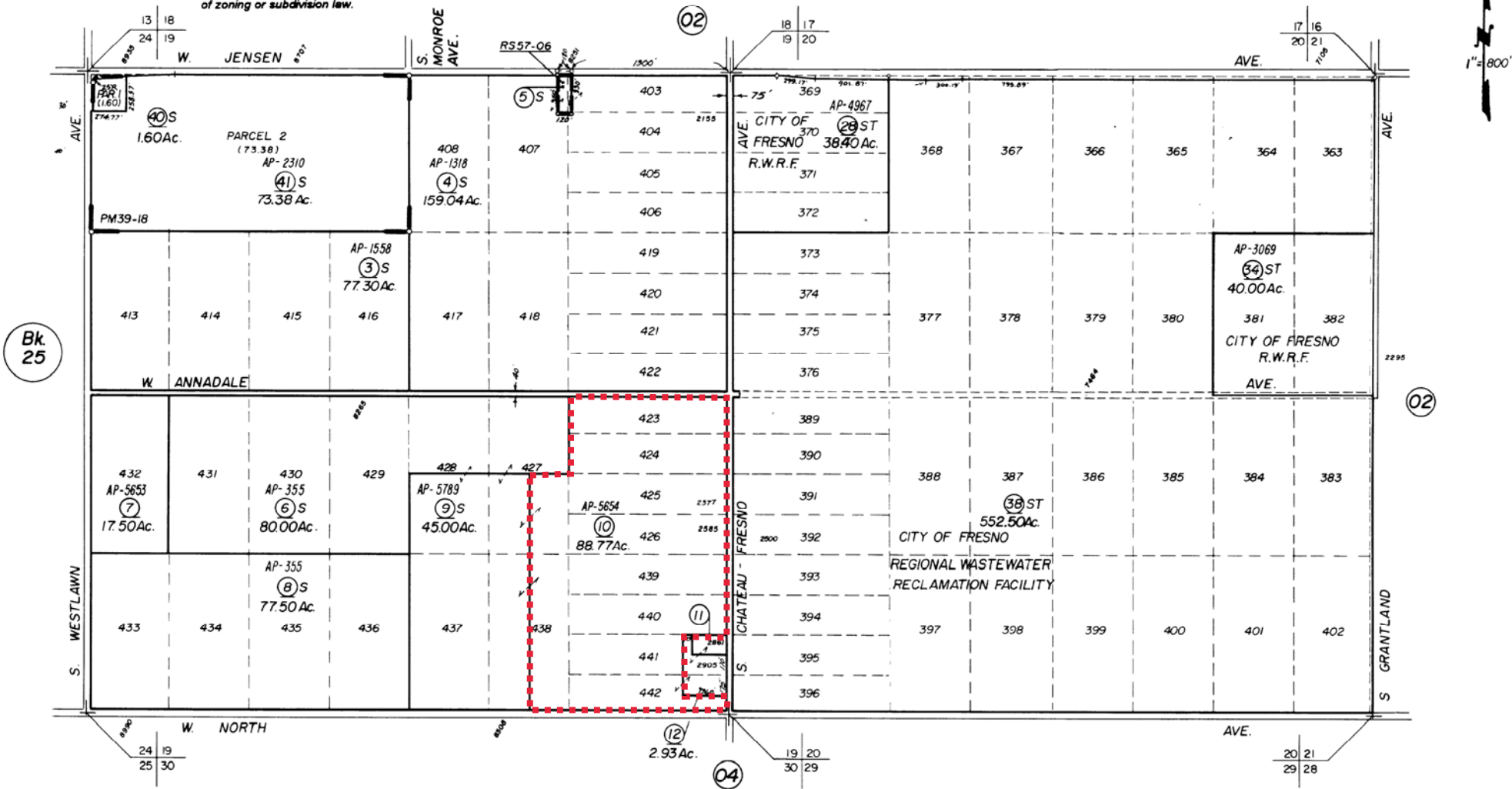


Applicant's Signature

05-10-2019

Date

— NOTE —
This map is for Assessment purposes only.
It is not to be construed as portraying legal
ownership or divisions of land for purposes
of zoning or subdivision law.

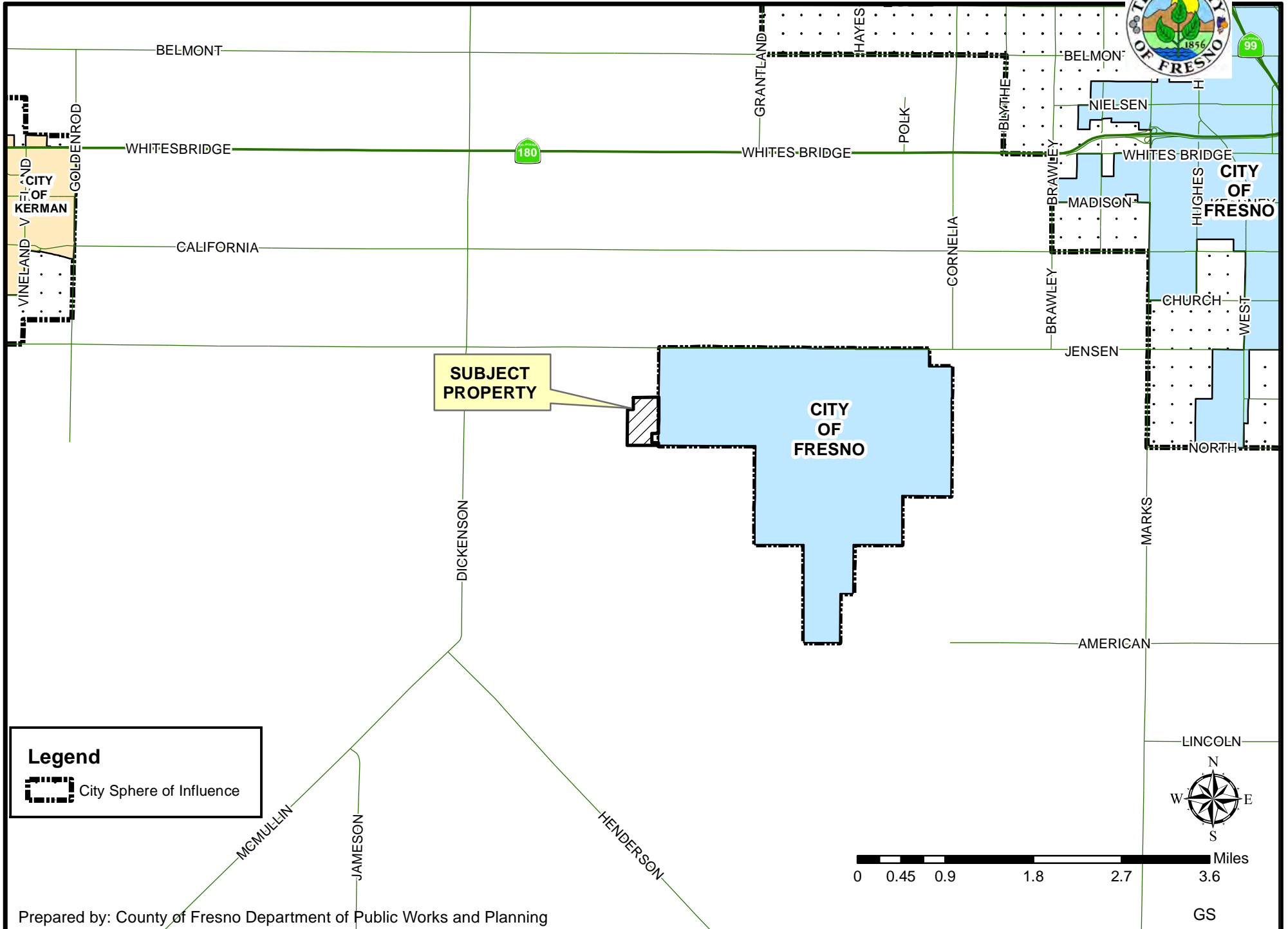


Agricultural Preserve
Fruitvale Estate - Plat Bk. 3, Pg. 67
Parcel Map No. 5886 - Bk. 39, Pg. 18
Record of Survey - Bk. 57, Pg. 06

Assessor's Map Bk. 327 - Pg. 20
County of Fresno, Calif.

NOTE - Assessor's Block Numbers Shown in Ellipses.
Assessor's Parcel Numbers Shown in Circles.

LOCATION MAP



SUBJECT PROPERTY

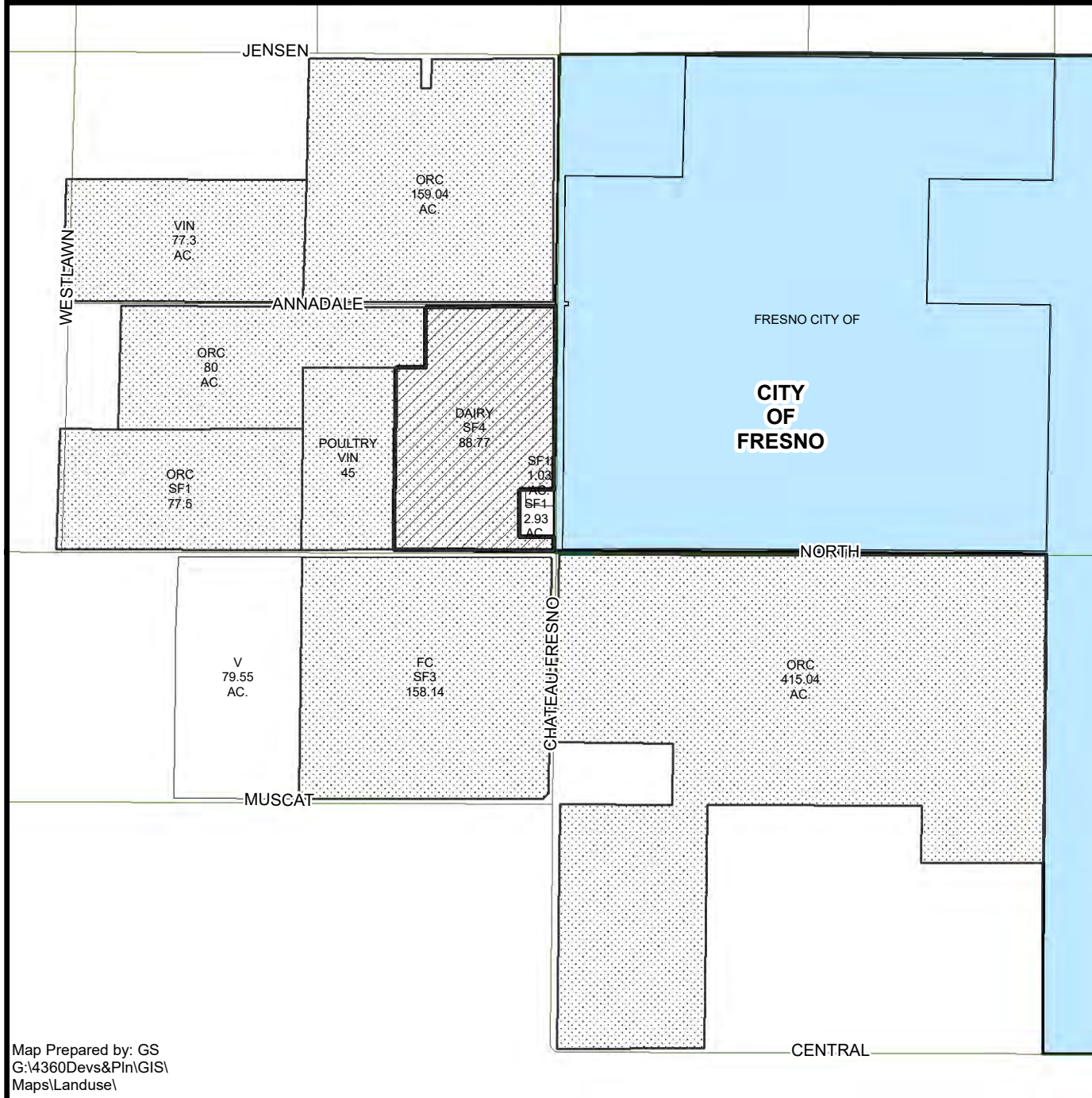
CITY OF FRESNO

CITY OF FRESNO

Legend



City Sphere of Influence

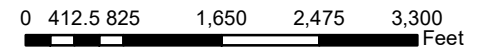
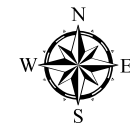
EXISTING LAND USE MAP



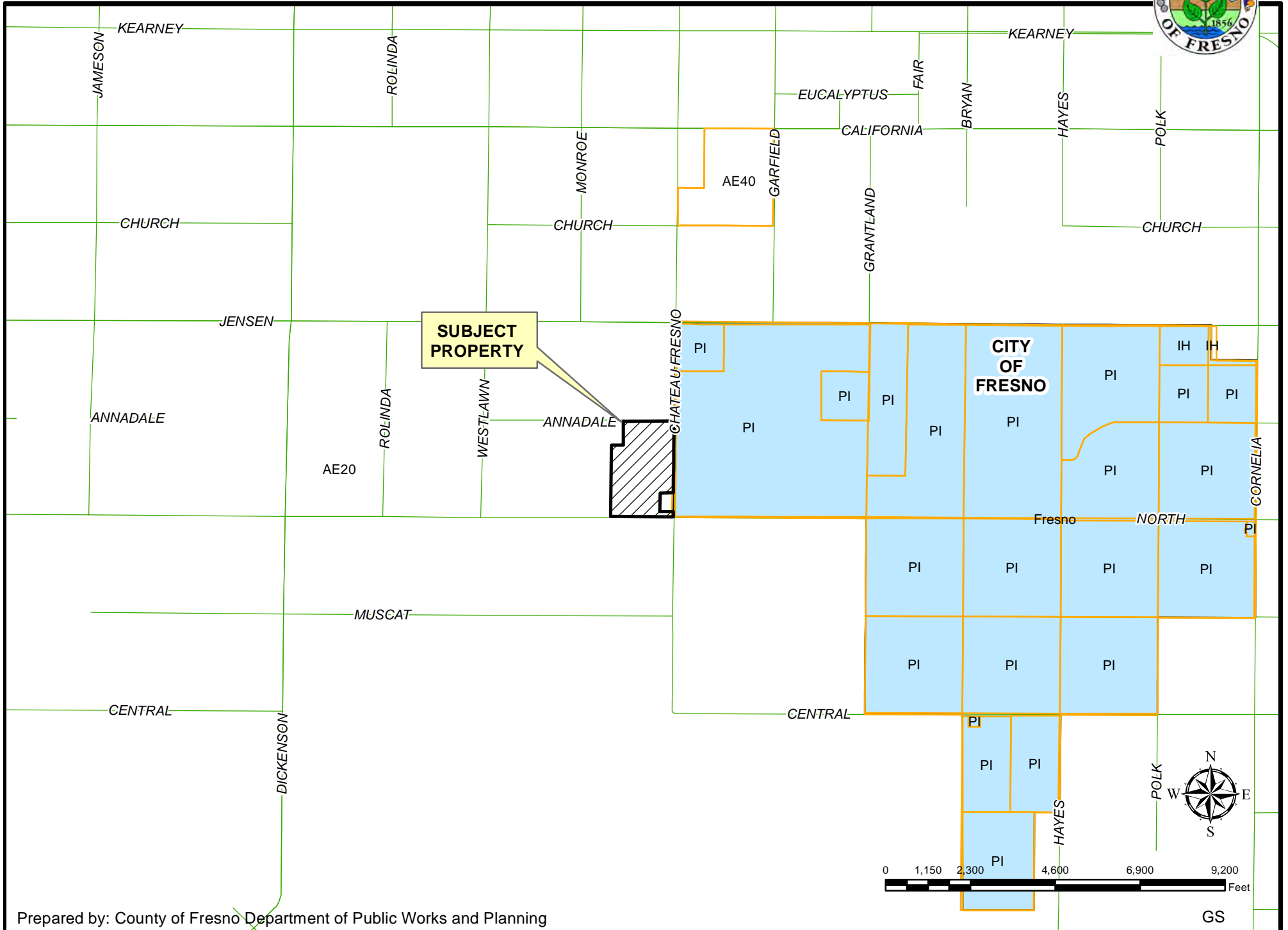
LEGEND	
DAIRY	
FC - FIELD CROP	
ORC - ORCHARD	
SF# - SINGLE FAMILY RESIDENCE	
V - VACANT	
VIN - VINEYARD	

LEGEND:

-  Subject Property
-  Ag Contract Land



EXISTING ZONING MAP



RECORDING REQUESTED BY:
Stewart Title - Fresno.

15

WHEN RECORDED MAIL TO:

Kathryn Siciliani, trustee
2838 W. Kensington Lane
Fresno, California 93711



FRESNO County Recorder
Robert C. Werner
DOC- 2007-0183007
Acct. #-Stewart Title Of Fresno County
Tuesday, OCT 02, 2007 08:08:00
Ttl Pd \$30.00 No#-0002515665
EMF/RS/2-5

ORDER NO. 2541-
ESCROW NO. 2546-8066

SHORT FORM DEED OF TRUST AND ASSIGNMENT OF RENTS

APN: 327 200 10

This Deed of Trust, made this 20th day of June, 2007, between
Michael Bottasso and Nora Bottasso, Trustees of the Michael and Nora Bottasso Living Trust dated July 16, 1997

herein called TRUSTOR, whose address is 3221 S. Chateau Fresno Ave, Fresno, CA 93706
Stewart Title of California, Inc., a California Corporation, herein called TRUSTEE, and
Kathryn Siciliani, Trustee of the Kathryn Siciliani Living Trust dated Oct. 27, 1999

herein called BENEFICIARY,
Witnesseth: That Trustor IRREVOCABLY GRANTS, TRANSFERS AND ASSIGNS TO TRUSTEE IN TRUST, WITH
POWER OF SALE, that property in Fresno County, California, described as:

For complete legal description, additional terms and conditions, see exhibit "A" attached hereto.
TOGETHER WITH the rents, issues and profits thereof, SUBJECT, HOWEVER, to the right, power and authority given to and
conferred upon Beneficiary by paragraph (10) of the provisions incorporated herein by reference to collect and apply such rents,
issues and profits.

For the Purpose of Securing: 1. Performance of each agreement of Trustor incorporated by reference or contained herein. 2.
Payment of the indebtedness evidenced by one promissory note of even date herewith, and any extension or renewal thereof, in
the principal sum of \$100,000.00 executed by Trustor in favor of Beneficiary by order. 3. Payment of such further sums as the
then record owner of said property hereafter may become from Beneficiary, when evidenced by another note (or notes) reciting it
is so secured.

To Protect the Security of This Deed of Trust, Trustor Agrees: By the execution and delivery of this Deed of Trust and the
note secured hereby, that provisions (1) to (14), inclusive, of the fictitious deed of trust recorded under date, in the book and at
the page of Official Records in the office of the county recorder of the county where said property is located, noted below
opposite the name of such county, viz.:

COUNTY	BOOK	PAGE	COUNTY	BOOK	PAGE	COUNTY	BOOK	PAGE	COUNTY	BOOK	PAGE
Alameda	435	484	Calga	792	833	Placer	696	391	Santa	28	335
Alpine	1	258	Colusa	362	39	Plumas	151	5	Siskiyou	468	181
Amador	704	348	Contra Costa	171	471	Plumas	3005	523	Sonoma	1165	162
Buile	1145	1	Los Angeles	72655	699	Sacramento	4331	62	Sonoma	1851	689
Calaveras	145	157	Madras	619	176	San Bernardino	371	383	Stanislaus	1715	456
Colusa	296	617	Marin	1538	336	San Bernardino	5567	61	Sutter	572	297
Contra Costa	3878	47	Maricopa	77	262	San Francisco	4332	988	Tehama	491	280
Del Norte	75	414	Monterey	579	336	San Joaquin	2470	311	Terry	93	366
El Dorado	568	458	Merced	1547	538	San Luis Obispo	1151	12	Tulare	2294	275
Fresno	6626	572	Modoc	184	251	San Mateo	4075	429	Tuolumne	135	47
Glen	422	184	More	52	429	Santa Barbara	1878	890	Ventura	2082	388
Humboldt	957	527	Monterey	2194	538	Santa Clara	5336	341	Yuba	653	245
Inyo	1091	501	Napa	639	88	Santa Cruz	1431	494	Yuba	334	486
Inyo	147	598	Nevada	504	330	Shasta	684	528			
Kern	3427	60	Oregon	5889	611	San Diego	Serial 2, Book 1581, Page 163887				

FOR SIGNATURE(S) SEE SHORT FORM DEED OF TRUST SIGNATURE PAGE ATTACHED HERETO AND MADE A PART HEREOF.

RECEIVED
COUNTY OF FRESNO

MAY 16 2019

DEPARTMENT OF PUBLIC WORKS
AND PLANNING
DEVELOPMENT SERVICES DIVISION

SHORT FORM DEED OF TRUST SIGNATURE(S) PAGE

ORDER NO.
ESCROW NO. E084

(which provisions, identical in all counties, are printed on the reverse hereof) hereby are adopted and incorporated herein and made a part hereof as fully as though set forth herein at length; that he will observe and perform said provisions; and that the references to property, obligations, and parties in said provisions shall be construed to refer to the property, obligations, and parties set forth in this Deed of Trust.

The undersigned Trustor requests that a copy of any Notice of Default and of any Notice of Sale hereunder be mailed to him at his address hereinbefore set forth.

Michael Bottasso
Michael Bottasso, Trustee

Nora Bottasso
Nora Bottasso, Trustee

DATE: June 20, 2007

STATE OF CALIFORNIA

COUNTY OF Fresno

On 10-1-07 before me J. N. Brown Notary Public (here insert name and title of the officer) personally appeared Michael Bottasso and Nora Bottasso

personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s), whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Signature

J. N. Brown



(Seal)

SHORT FORM DEED OF TRUST CONTINUED ON NEXT PAGE

Order Number: 8066

EXHIBIT "A"
LEGAL DESCRIPTION

An undivided 1/4th interest in and to the following described property:

Parcel 1:

The West half of Lot 423 of Fruitvale Estates, according to the map thereof recorded April 10, 1889, in Book 3 Page 67 of Plats, Records of said County.

Parcel 2:

The East half of Lot 423, all of Lots 424, 425, 426, 439, 440, 441, 442, the Southeast quarter of Lot 427 and the East half of Lot 438 of Fruitvale Estates, according to the map thereof recorded April 10, 1889, in Book 3 Page 67 of Plats, Records of said County;

Excepting Therefrom that portion thereof lying within the following described parcel:

Beginning at a point in the center line of Chateau-Fresno Avenue 357 feet North of the Southeast corner of Section 19, Township 14 South, Range 19 East, Mount Diablo Base and Meridian, according to the Official Plat thereof; thence at right angles to the center line of Chateau-Fresno Avenue, Westerly 290 feet; thence Northerly parallel with the center line of Chateau-Fresno Avenue, 300.4 feet; thence Easterly at right angles to the center line of Chateau-Fresno Avenue; thence Southerly along the center line of Chateau-Fresno Avenue to the point of beginning;

Also Excepting therefrom the North 175 feet of the East 290 feet of said Lot 442;

Also Excepting Therefrom the Westerly 70 feet of the Easterly 360 feet of said Lot 441 and the Westerly 70 feet of the Easterly 360 feet of the Northerly 175 feet of said Lot 442.

Together with that portion of Chateau Avenue that was vacated in an instrument recorded March 28, 1988, as Document No. 88032267.

APN:	327-200-10
Designated as:	Agricultural land
Located at:	2585 South Chateau Fresno Avenue Fresno, California

3

SHORT FORM DEED OF TRUST AND ASSIGNMENT OF RENTS

ORDER NO. ESCROW NO. 1006

The following is a copy of provisions (1) to (14), inclusive, of the fixtures deed of trust, recorded in each county in California, as stated in the foregoing Deed of Trust and incorporated by reference in said Deed of Trust as being a part thereof as if set forth at length herein.

To Protect the Security of This Deed of Trust, Trustee Agrees:

(1) To keep said property in good condition and repair, not to remove or demolish any building thereon, to complete or restore promptly and in good and workmanlike manner any building which may be constructed, damaged or destroyed thereon and to pay when due all claims for labor performed and materials furnished thereon, to comply with all laws affecting said property or requiring any alterations or improvements to be made thereon, not to commit or permit waste thereon, not to commit, suffer or permit any act upon said property in violation of law to cut down, remove, mutilate, mutilate, mutilate, mutilate, mutilate, mutilate and do all other acts which from the character or use of said property may be reasonably necessary, the specific enumeration herein not excluding the general.

(2) To provide maintain and deliver to beneficiary the insurance satisfactory to and with loss payable to beneficiary. The amount collected under any fire or other insurance policy may be applied by beneficiary upon indebtedness secured hereby and in such order as beneficiary may determine, or trustee of beneficiary the entire amount so collected or any part thereof may be retained by trustee. Such application or release shall not cure or waive any default or notice of default hereunder or invalidate any act done pursuant to such notice.

(3) To appear in and defend any action or proceeding purporting to affect the security hereof or the rights or powers of beneficiary or trustee, and to pay all costs and expenses including cost of evidence of title and attorney's fees in a reasonable sum, in any such action or proceeding in which beneficiary or trustee may appear, and in any action brought by beneficiary to foreclose this deed.

(4) To pay at least ten days before delinquency all taxes and assessments affecting said property, including assessments on apartment water stock, when due, all encumbrances, charges and fees, with interest on said property or any part thereof, which appear to be prior or superior hereon, all costs, fees and expenses of this trust. Should trustee fail to make any payment or to do any act as herein provided, then beneficiary or trustee, but without obligation to do so and without notice to or demand upon trustee and without releasing trustee from any obligation hereof, may make or do the same in such manner and to such extent as either may deem necessary to protect the security hereof, beneficiary or trustee being authorized to enter upon said property for such purposes, appear in and defend any action or proceeding purporting to affect the security hereof or the rights or powers of beneficiary or trustee, pay, purchase, contract or compromise any encumbrance, charge or fee which in the judgment of either appears to be prior or superior hereon, and in exercising any such power, pay necessary expenses, employ counsel and pay his reasonable fees.

(5) To pay immediately and without demand all sums so expended by beneficiary or trustee, with interest from date of expenditure at the amount allowed by law in effect at the date hereof, and to pay for any assessment provided for by law in effect at the date hereof regarding the obligation secured hereby any amount demanded by the beneficiary not to exceed the maximum allowed by law at the time when said assessment is demanded.

(6) That any award of damages in connection with any condemnation for public use of or injury to said property or any part thereof is hereby assigned and shall be paid to beneficiary who may apply or release such moneys received by him in the same manner and with the same effect as above provided for disposition of proceeds of fire or other insurance.

(7) That by accepting payment of any sum secured hereby after its due date, beneficiary does not waive his right either to require prompt payment when due of all other sums so secured or to declare default for failure so to pay.

(8) That at any time or from time to time, without liability therefor and without notice, upon written request of beneficiary and production of this deed and said note for endorsement, and without affecting the personal liability of any person for payment of the indebtedness secured hereby, trustee may recover any part of said property, consent to the making of any map or plat thereon, join in granting any easement thereon or join in any extension agreement or any agreement subordinating the lien or charge hereof.

(9) That upon written request of beneficiary advise that all sums secured hereby have been paid, and upon surrender of this deed and said note to trustee for cancellation and retention and upon payment of its fees, trustee shall reconvey, without warranty, the property then held hereunder. The recitals in such reconveyance of any matter or facts shall be conclusive proof of the truthfulness thereof. The grantee in such reconveyance may be described as "The person or persons legally entitled thereto". Five years after issuance of such full reconveyance, trustee may destroy said note and this deed unless directed in such request to retain them.

(10) That as additional security, trustee hereby gives to and reserves upon beneficiary the right, power and authority, during the continuance of these trusts, to collect the rents, issues and profits of said property, reserving unto trustee the right, prior to any default by trustee in payment of any indebtedness secured hereby or in performance of any agreement hereunder, to collect the rents, issues and profits of said property, reserving unto trustee the right, prior to any default by trustee in payment of any indebtedness secured hereby or in performance of any agreement hereunder, to collect and retain such rents, issues and profits as they become due and payable. Upon any such default, beneficiary may at any time without notice, either in person, by agent, or by a receiver to be appointed by a court, and without regard to the adequacy of any security for the indebtedness hereby secured, enter upon and take possession of said property or any part thereof, in his own name sue for or otherwise collect such rents, issues and profits including those past due and unpaid, and apply the same, first to costs and expenses of operation and collection, including reasonable attorney's fees. Upon any indebtedness secured hereby, and in such order as beneficiary may determine. The existing upon and taking possession of said property, the collection of such rents, issues and profits and the application thereof as aforesaid, shall not cure or waive any default or notice of default hereunder or invalidate any act done pursuant to such notice.

(11) That upon default by trustee in payment of any indebtedness secured hereby or in performance of any agreement hereunder, beneficiary may declare all sums secured hereby immediately due and payable by delivery to trustee of written declaration of default and demand for sale and of written notice of default and of election to cause to be sold said property which notice trustee shall cause to be filed for record. Beneficiary also shall deposit with trustee this deed, said note and all documents evidencing expenditures secured hereby.

After the lapse of such time as may then be required by law following the recording of said notice of default, and notice of sale having been given as then required by law, trustee, without demand on trustee, shall sell said property at the time and place fixed by it in said notice of sale, either as a whole or in separate parcels, and in such order as it may determine, at public auction to the highest bidder for cash in lawful money of the United States, payable at time of sale. Trustee may postpone sale of all or any portion of said property by public announcement at such time and place of sale, and from time to time thereafter may postpone such sale by public announcement at the time fixed by the preceding postponement. Trustee shall deliver to such purchaser its deed conveying the property so sold, but without any covenant or warranty, express or implied. The recitals in such deed of any matters or facts shall be conclusive proof of the truthfulness thereof. Any person, including trustee, trustee or beneficiary as hereinafter defined, may purchase at such sale.

After deducting all costs, fees and expenses of trustee and of this trust, including cost of evidence of title in connection with sale, trustee shall apply the proceeds of sale to payment of all sums expended under the terms hereof, not then repaid, with accrued interest at the amount allowed by law in effect at the date hereof, all other sums then secured hereby, and the remainder, if any, to the person or persons legally entitled thereto.

(12) Beneficiary or any successor in ownership of any indebtedness secured hereby, may from time to time, by instrument in writing, substitute a successor or successors to any trustee named herein or acting hereunder, which instrument, executed by the beneficiary and duly acknowledged and recorded in the office of the recorder of the county or counties where said property is situated, shall be conclusive proof of proper substitution of such successor trustee or trustees, who shall, without concurrence from the trustee predecessor, succeed to all its title, estate, rights, powers and duties. Said instrument must contain the name of the original trustee, trustee and beneficiary hereunder, the book and page where this deed is recorded and the name and address of the new trustee.

(13) That this deed applies to, binds to the benefit of, and binds all parties hereto, their heirs, rightless, devisees, administrators, executors, successors and assigns. The term beneficiary that means the owner and holder, including pledgee, of the note secured hereby whether or not named as beneficiary herein in this deed, whenever the context so requires, the masculine gender includes the feminine and/or neuter, and the singular number includes the plural.

(14) That trustee accepts this trust when this deed, duly executed and acknowledged and is made a public record as provided by law. Trustee is not obligated to notify any party hereto of pending sale under any other deed of trust or of any action or proceeding in which trustee, beneficiary or trustee shall be a party unless brought by trustee.

SHORT FORM DEED OF TRUST CONTINUED ON NEXT PAGE

**SHORT FORM DEED OF TRUST AND ASSIGNMENT OF RENTS
DO NOT RECORD**

ORDER NO.
ESCROW NO. 8066

REQUEST FOR FULL RECONVEYANCE
To be used only when note has been paid.

To Stewart Title of California, Inc., Trustee

Dated _____

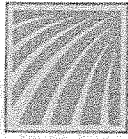
The undersigned is the legal owner and holder of all indebtedness secured by the within Deed of Trust. All sums secured by said Deed of Trust have been fully paid and satisfied; and you are hereby requested and directed, on payment to you of any sums owing to you under the terms of said Deed of Trust, to cancel all evidences of indebtedness, secured by said Deed of Trust, delivered to you herewith together with said Deed of Trust, and to reconvey, without warranty, to the parties designated by the terms of said Deed of Trust, the estate now held by you under the same.

By _____
By _____

MAIL RECONVEYANCE TO:

ALL SIGNATURES TO THIS DOCUMENT MUST BE NOTARIZED

Do not lose or destroy this Deed of Trust OR THE NOTE which it secures. Both must be delivered to the Trustee for cancellation before reconveyance will be made.



Innovative Ag Services, LLC
 1201 Delta View Road, Suite 5 Hanford, CA 93230
 Office (559) 587-2800 Fax (559) 587-2801

RECEIVED
 COUNTY OF FRESNO

MAY 16 2019

DEPARTMENT OF PUBLIC WORKS
 AND PLANNING
 DEVELOPMENT SERVICES DIVISION

Operational Statement Questions

Facility Name: Kiss Cattle, LLC

County: Fresno County

1. Describe in detail the nature of the operation and on what is being proposed to do.

Raising of cattle from new born until +/- 15 months old.

No Milking on this site!

2. How many cattle are on site? 2500 +/-

Will the proposal increase the number of cattle? Yes If so by how many? 3500 head

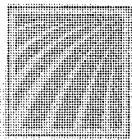
3. Operational time limits: 6:00am - 5:00pm, 7 days per week

4. Number of customers or visitors: per day: 0 visit hours: 0

5. Number of employees 9. Will proposal increase the number? Yes

Hours/shifts employees work:

6:00am to 5:00pm with different shifts running.



Innovative Ag Services, LLC

1201 Delta View Road, Suite 5 Hanford, CA 93230

Office (559) 587-2800 Fax (559) 587-2801

6. Service and delivery vehicles? 1 number per day: 2

7. Road access to the site: (*public or private*) Public

8. Number of parking spaces on site: Unmarked on dirt

9. Are any goods to be sold on-site? No
If so, are goods grown or produced on-site or at some other location? _____

10. What equipment is used on the entire site?

The equipment used on site consists of 1-loader, 1-forklift,
and 1-tractor scraper.

11. What supplies or materials are used and how are they stored?

The hay is stored in the barn. The milk is stored in the parlor.

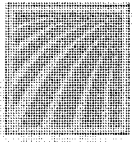
12. Does the use cause an unsightly appearance? No

13. List any solid or liquid wastes to be produced on site. Describe how its stored, stored location, estimated volume, how is it hauled, where is it disposed and how often.

Liquid cow manure is stored in ponds.
Dry cow manure is stored in corrals.

14. Estimated volume of water to be used (gallons per day) 160.000 gallons per day

Source of water? Well



Innovative Ag Services, LLC

1201 Delta View Road, Suite 5 Hanford, CA 93230

Office (559) 587-2800 Fax (559) 587-2801

15. Describe any proposed advertising including size, appearance, and placement.

N/A

16. Will all existing buildings continue to be used or will new buildings be constructed?

No new buildings will be added.

17. Explain which buildings or what portion of buildings will be used in the operation.

All existing buildings will be used in the operation.

18. Will any outdoor lighting or an outdoor sound amplification system be used?

Outdoor lighting will be used. No sound system will be used on this facility.

19. Landscaping or fencing proposed?

Fencing will be used to hold the cattle (see map).

20. Add any additional information that will provide a clear understanding of the project or operation.

This operation is a calf ranch.

21. Identify all Owners.

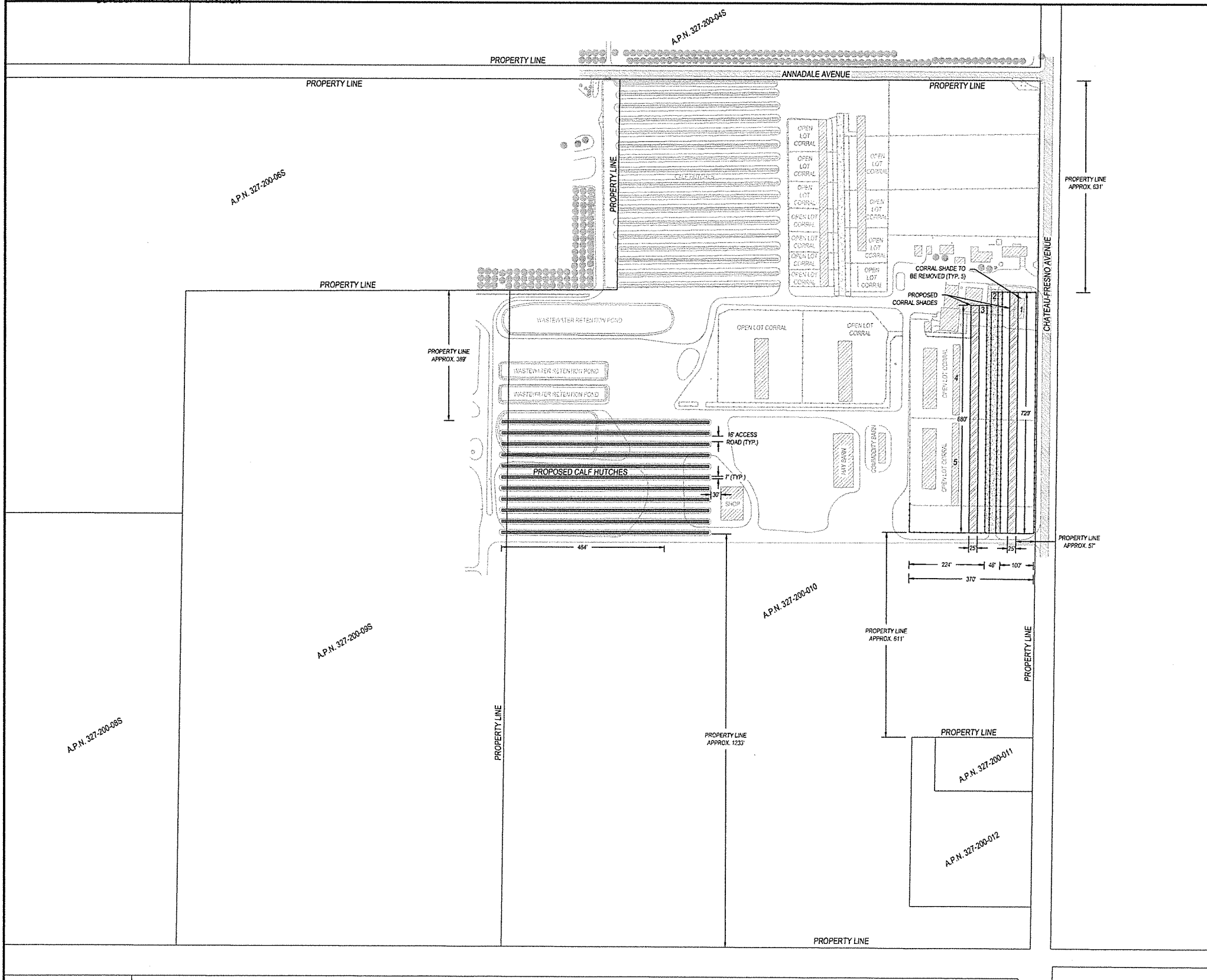
Gerrit Roeloffs

RECEIVED
COUNTY OF FRESNO

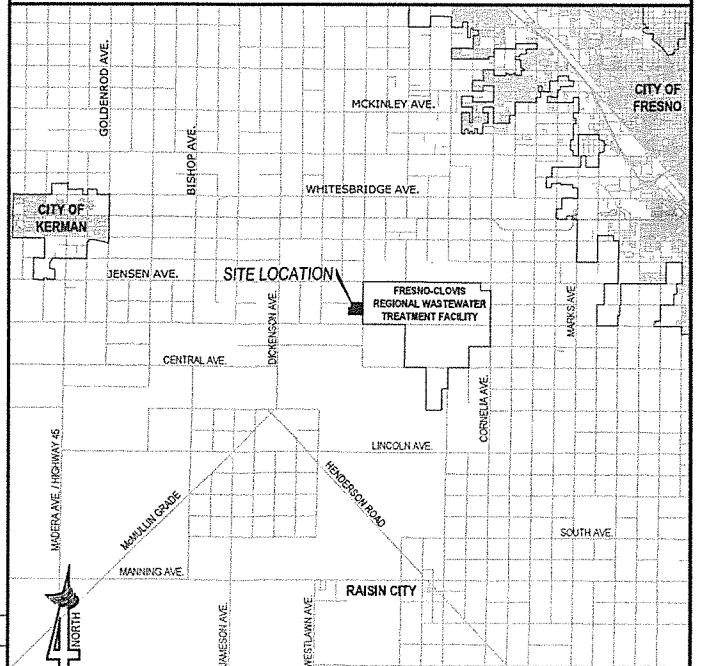
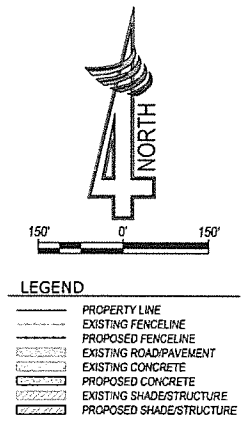
MAY 16 2019

DEPARTMENT OF PUBLIC WORKS
AND PLANNING
DEVELOPMENT SERVICES DIVISION

KISS CATTLE, LLC PROPOSED PLOT PLAN



OWNER GERRIT ROELOFFS
 ADDRESS 2585 S CHATEAU-FRESNO
 FRESNO, CA 93706
 COUNTY FRESNO COUNTY
 A.P.N. 327-200-010



PROPOSED PLOT PLAN

SCALE: 1" = 150'

VICINITY MAP

SCALE: 1" = 2 MI.

REVISIONS	DATE	BY	DESCRIPTION

PREPARED BY: **4CREKS**
 254 S. SANTA FE, STE. A
 VISALIA, CA 93282
 TEL: 559.802.3652
 FAX: 559.802.3715
 CKK BY: ADR
 DRW BY: CGM

CONSTRUCTION PLAN
KISS CATTLE, LLC
 2585 S CHATEAU-FRESNO
 FRESNO, CA 93706

FACILITY MODIFICATIONS
 PROPOSED PLOT PLAN

CONSTRUCTION PLAN
KISS CATTLE, LLC
 2585 S CHATEAU-FRESNO
 FRESNO, CA 93706

FACILITY MODIFICATIONS
 PROPOSED PLOT PLAN

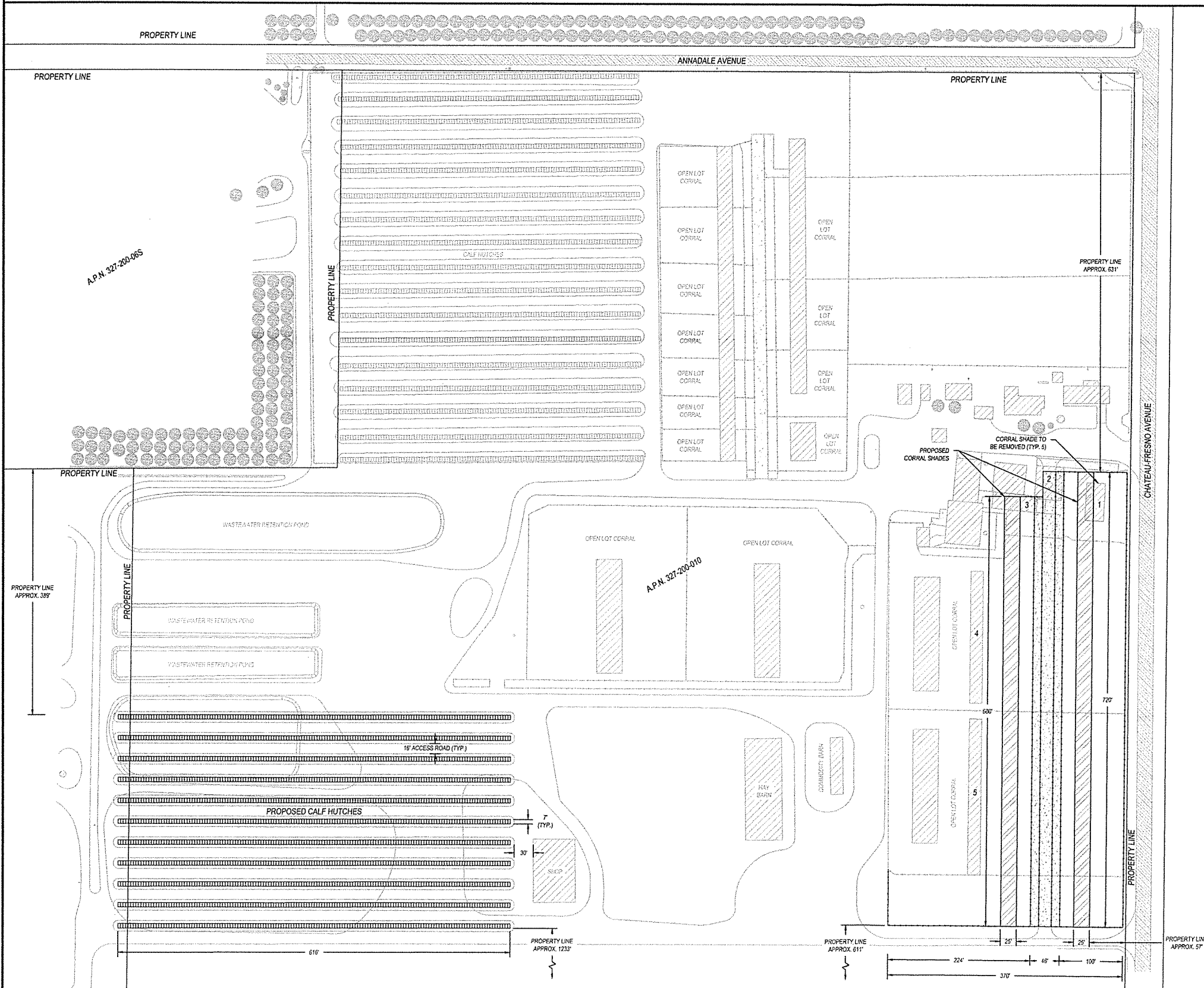
PLOT DATE: Apr 09, 2019
 JOB NO.: 19070
 FILE NAME: 19070 - COUNTY PP
 SCALE: SEE SHEET
 SHEET NO.: 1 OF 3

RECEIVED
COUNTY OF FRESNO

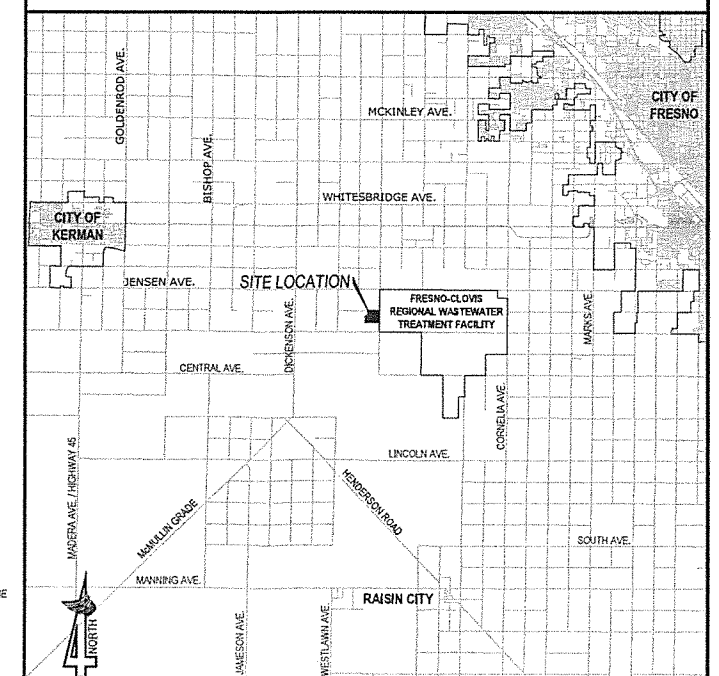
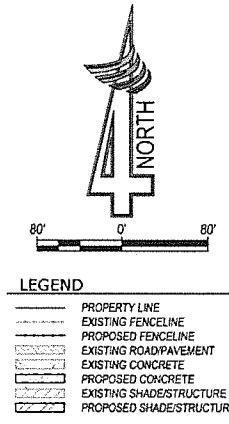
MAY 16 2019

DEPARTMENT OF PUBLIC WORKS
AND PLANNING
DEVELOPMENT SERVICES DIVISION

KISS CATTLE, LLC PROPOSED SITE PLAN



OWNER GERRIT ROELOFFS
 ADDRESS 2585 S CHATEAU-FRESNO
 FRESNO, CA 93706
 COUNTY FRESNO COUNTY
 A.P.N. 327-200-010



PROPOSED SITE PLAN

SCALE: 1" = 80' VICINITY MAP SCALE: 1" = 2 MI.

REVISIONS	DATE	BY	DESCRIPTION

304 S. SANTA FE, STE. A
 VISALIA, CA 93292
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 FAX: 559.802.2715

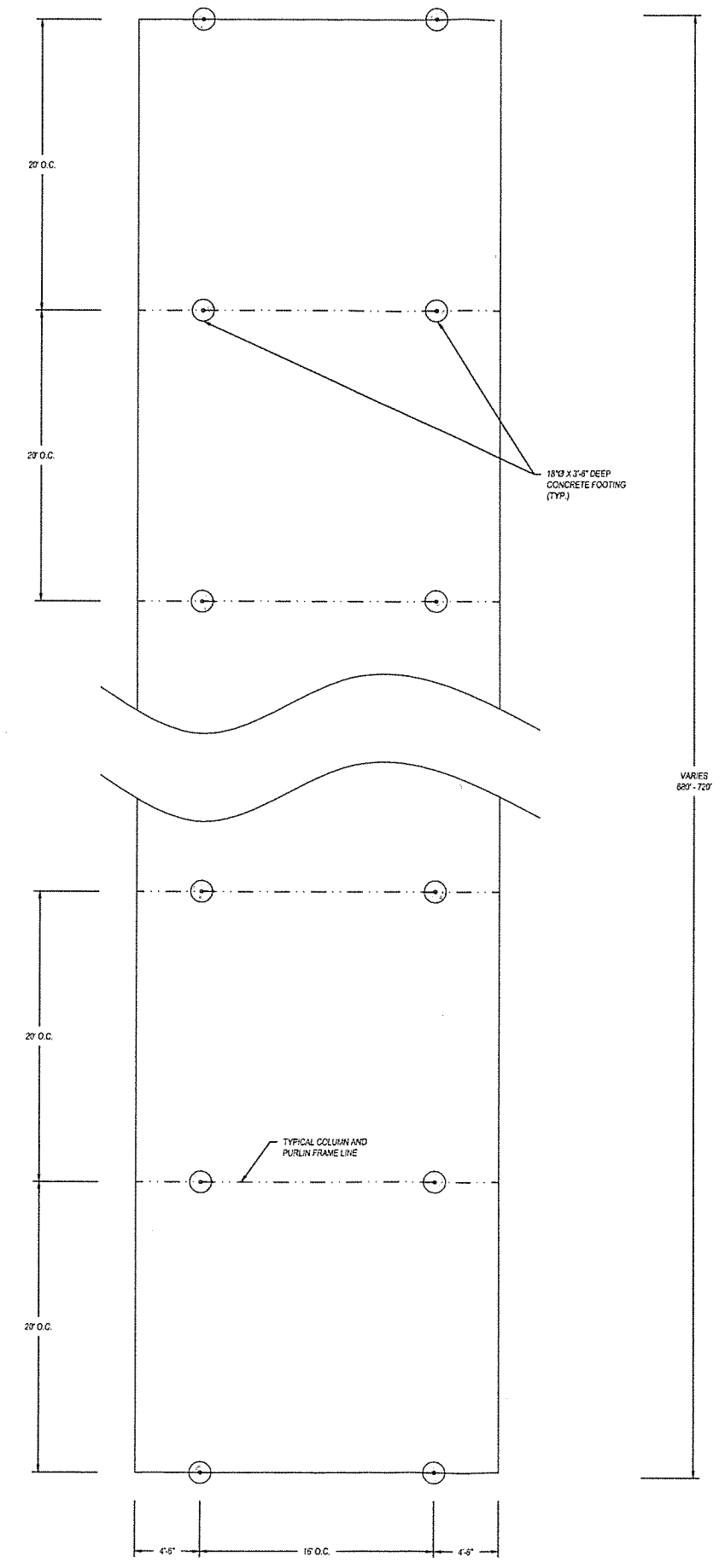
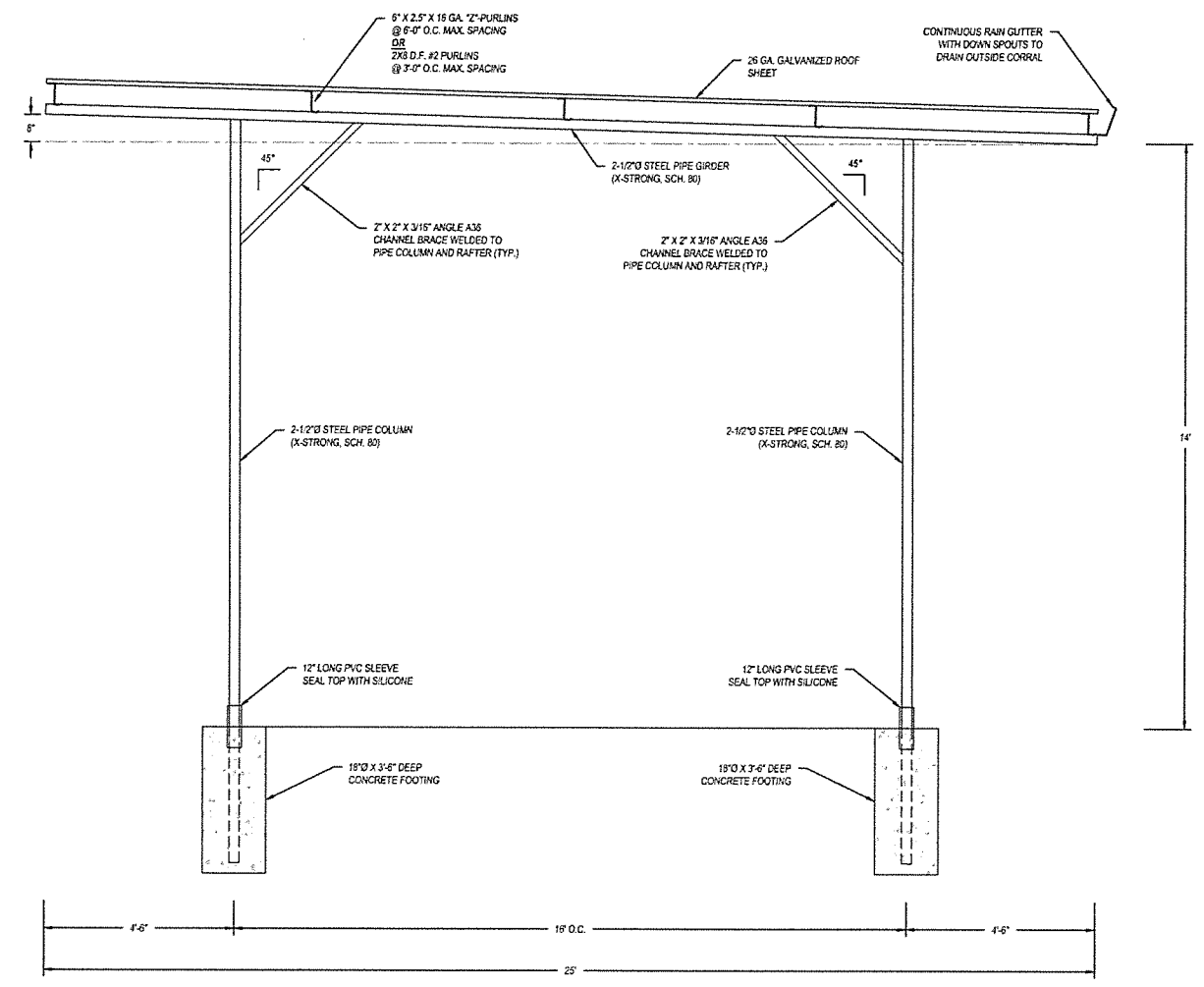
PREPARED BY: 4CREEKS
 DRAWN BY: CGM CHECK BY: MDR

CONSTRUCTION PLAN
 KISS CATTLE, LLC
 2585 S CHATEAU-FRESNO
 FRESNO, CA 93706

FACILITY MODIFICATIONS
 PROPOSED SITE PLAN

PLOT DATE: Apr 09, 2019
 JOB NO.: 19070
 FILE NAME: 19070 - COUNTY SP
 SCALE: SEE SHEET
 SHEET NO.: 2 OF 3

RECEIVED
 COUNTY OF FRESNO
 MAY 16 2019
 DEPARTMENT OF PUBLIC WORKS
 AND PLANNING
 DEVELOPMENT SERVICES DIVISION



REVISIONS	DATE	BY	DESCRIPTION

24 S. SANTA FE BLVD
 VISALIA, CA 93292
 TEL: 559.802.3021
 FAX: 559.802.3215

4CREEKS

PREPARED BY: CGM
 CHECK BY: MDR

CONSTRUCTION PLAN
KISS CATTLE, LLC
 2586 S CHATEAU-FRESNO
 FRESNO, CA 93706

FACILITY MODIFICATIONS
 CORRAL SHADE PLAN & ELEVATION

PLOT DATE: Apr 08, 2019
JOB NO: 19070
FILE NAME: CORRAL SHADE
SCALE: AS SHOWN
SHEET NO: 3 OF 3

WASTE MANAGEMENT PLAN

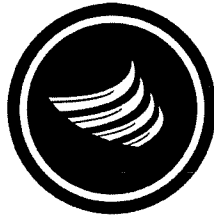
KISS CATTLE, LLC

NOVEMBER 22, 2019

PREPARED FOR:

KISS CATTLE, LLC
2585 S. CHATEAU-FRESNO
FRESNO, CA 93706

COMPLETED BY:



4CREEKS

324 S. SANTA FE ST., STE. A
VISALIA, CA 93292
(559) 802-3052

SUBMITTED TO:

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION
1685 E. STREET
FRESNO, CA 93706

WASTE MANAGEMENT PLAN

A Waste Management Plan (WMP) for the production area is required for all existing confined bovine feeding facilities subject to Waste Discharge Requirements General Order Number R5-2017-0058. The purpose of the WMP is to ensure that the production area of the facility is designed, constructed, operated and maintained so that facility wastes generated at the facility are managed in compliance with Waste Discharge Requirements General Order Number R5-2017-0058, in order to prevent adverse impacts to groundwater and surface water quality.

KISS CATTLE, LLC

FRESNO COUNTY, CA

CERTIFICATION

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

OWNER:

SIGNATURE OF OWNER

PRINT

DATE

OPERATOR:

Gerrit Roeloffs

SIGNATURE OF OPERATOR

Gerrit Roeloffs

PRINT

11-26-19

DATE

ENGINEER:

Kyle M. Parreira

KYLE M. PARREIRA, PE #89070

11/22/19

DATE



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ATTACHMENTS

- A. Vicinity Map
- B. Production Area Map
- C. Facility Wastewater Flow Diagram
- D. Storm Water Tributary Area Map
- E. APN Identification Map
- F. Land Application Map
- G. FEMA Map

APPENDICES

- A. Wastewater Retention Pond Volume Analysis
 - B. Wastewater Pond Field Capacity Analysis
 - C. Animal Output Data
 - D. Normal Precipitation Data
 - E. 25 Year, 24 Hour Storm Water Data
 - F. Evaporation Data
 - G. Storm Drain Run-Off Coefficient Data
-

Introduction

The California Regional Water Quality Control Board, Region 5, adopted General Order Number R5-2017-0058, which affects all existing confined bovine feeding facilities in operation as of February 10, 2017. One of the requirements of the General Order is a Waste Management Plan (WMP). The purpose of the WMP is to ensure that the production area of the feeding facility is designed, constructed, operated, and maintained so that facility wastes are managed in compliance with Waste Discharge Requirements General Order Number R5-2007-0035 to prevent adverse impacts to groundwater and surface water quality.

I. Existing Facility Description

A. Name of the Facility & County Location

Facility Name: Kiss Cattle, LLC
County: Fresno County

B. Facility Location

Address: 2585 S Chateau-Fresno Avenue
Fresno, CA 93706
Assessor's Parcel Number: 327-200-10
Township, Range, Section: Township 14 South, Range 19 East, Section 19
Baseline Meridian: Mount Diablo Base and Meridian

C. Responsible Party

Owner/Operator: Gerrit Roeloffs
9256 S Valentine Avenue
Fresno, CA 93706

D. Facility Animal Population

The total number of the facility animal population is summarized in Table 1.



Table 1: Facility Profile

<i>Type of Animal</i>	<i>Number of Animals</i>	<i>Breed</i>
Heifers: 15-24 mo.	400	Holstein
Heifers: 7-14 mo.	600	Holstein
Heifers: 4-6 mo.	3,500	Holstein
Calves: 0-3 mo.	3,500	Holstein
Total Herd Size	8,000	

E. Facility Wastewater Analysis

The volume of the wastewater entering the wastewater retention ponds was determined by calculating the amount of wastewater expected from the number of proposed animals on the facility.

F. Facility Site Maps

1. Vicinity Map (See Attachment A)

The Vicinity Map identifies the location of the facility and farming operation within a five-mile radius. It also identifies any cropland that is under control of the facility owner that is not used for wastewater application.

2. Production Area Maps

a. Production Area Map (See Attachment B)

The Production Area Map identifies all structures on the facility, including the open lot corrals, wastewater retention ponds, feed storage areas, and any other structures within the Production Area. The process wastewater distribution system is also identified.

b. Facility Wastewater Flow Diagram (See Attachment C)

The Facility Wastewater Flow Diagram locates the key components to the process wastewater system for the facility. It identifies the route wastewater flows prior to entering the wastewater retention ponds.

c. Storm Water Tributary Area Map (See Attachment D)

The Storm Water Tributary Map identifies the total impervious areas and the total retention pond areas within the Production Area.



3. APN Identification Map (See Attachment E)

The APN Identification Map identifies each parcel associated with the facility.

4. Land Application Map (See Attachment F)

The Land Application Map identifies the following:

a. Property Boundary

The Land Application Map identifies the property associated with the facility, the ownership of the associated land, and each parcel associated with the facility.

b. Land Application for 2019

The Land Application Map identifies the fields where wastewater is applied. Because the types of waste applied in each field may vary from year to year, the map only applies to 2019.

c. Irrigation and Water Supply

The Land Application Map identifies the irrigation water distribution system for the Land Application Area. This map includes irrigation supply wells, tile drains, return pumps, and surface water connections. This map also identifies each domestic and irrigation well within the Land Application Area.



II. Wastewater Storage Containment Capacity Analysis

The following analysis determines whether the existing wastewater retention pond storage capacity is in accordance with Title 27 of the California Code of Regulations, Chapter 7.2.1.

A. Existing Wastewater Storage Containment Capacity

1. Required Period of Retention Time from Nutrient Management Plan

The required period of retention time is defined in the Nutrient Management Plan as 120 days. This storage period retention time is based on no wastewater land application during the winter months (November 1st through February 28th).

2. Wastewater Accumulated in Production Area from Operations

The source of wastewater from operations is the animal manure and urine output deposited on flushed surfaces.

The animal output per day was determined by reference to March, 2005 ASABE 384.2 (See Appendix D). Based on the age of animal, type of animal housing, approximate hours per day spent on flushed surfaces, and the reduction in solids volume from the separator ponds, the total volume of animal waste output entering the wastewater system was determined. A summary of the net animal output is shown in Table 2.

Table 2: Animal Waste Output

<i>Age of Animal & Housing Type</i>	<i># of Animals</i>	<i>Waste Produced - Urine & Manure (ft³/day) (ASABE 384.2)</i>	<i>Hours/Day on Flush Surface</i>	<i>Sand Trap with Separation Pond Reduction Factor</i>	<i>Total (gal/day)</i>
Heifers: 15-24 mo. (Open Lot)	400	0.78	3	55%	131
Heifers: 7-14 mo. (Open Lot)	600	0.78	3	55%	197
Heifers: 4-6 mo. (Open Lot)	3,500	0.3	3	55%	442
Calves: up to 3 mo. (Not Flushed)	3,500	0.12	0	55%	0
				Total	770

Combining the animal output yields the total wastewater volume that flows into the retention ponds. This volume is summarized in Table 3 below.



Table 3: Wastewater Volume from Operations

<i>Wastewater Source</i>	<i>Volume (gal./day)</i>	<i>Total Volume Accumulated in 120 day period (gal.)</i>
Animal Output (Urine & Manure):	770	92,397
Total Process Wastewater Volume From Operations:	770	92,397

3. Wastewater Accumulated in Production Area from Precipitation

The wastewater accumulated from the Production Area due to precipitation was calculated using the rational method (Appendix A). An outline of the steps used to calculate the total wastewater volume from rainfall using this method is summarized in the following sections.

a. Production Area Subdivision by Run-off Coefficient

The Production Area was divided into three run-off coefficient categories: the retention pond surface areas, pervious areas, and impervious areas of the tributary area. The impervious areas include all concrete, buildings, and shades. Pervious areas include all other areas within the Production Area. These areas are outlined on the Storm Water Tributary Map (Attachment D).

The precipitation run-off for each area varies and is defined by published run-off coefficients (See Appendix H). The size of each area, shown in Table 4, was determined by calculations based on the land use data. The precipitation run-off calculated in Tables 5 and 6 was determined by multiplying each period's rainfall amounts (using a conversion factor of 0.623377 to convert inches of rainfall to gallons of run-off per square foot) with the weighted run-off area.

Table 4: Production Area Summary

<i>Area Description</i>	<i>Run-off Area (ft²)</i>	<i>Run-off Coefficient</i>	<i>Weighted Run-off Area (ft²)</i>
Wastewater Retention Pond Area	78,565	1.00	78,565
Total Impervious Area	254,514	0.75	190,886
Total Pervious Area	1,340,586	0.31	415,582
Total Production Area	1,673,665		685,032



b. Wastewater Accumulated From Normal Precipitation

The average normal precipitation per month was determined by averaging the monthly rainfall precipitation from California Department of Water Resources (CDWR) and California Irrigation Management Information System (CIMIS) data for the Coalinga, Madera, and Fresno stations based on station proximity to the facility site (Appendix E).

As shown in Appendix A, precipitation run-off was computed for each Production Area, for each month, using applicable run-off coefficients. A summation of the results for each month and for the entire 120 day retention period is shown in Table 5.

Table 5: Wastewater Accumulated from Normal Precipitation

<i>Month</i>	<i>Average Rainfall (in.)</i>	<i>Days of Retention</i>	<i>Total Volume Accumulated in Each Period (gal.)</i>
November	1.11	30	474,007
December	1.59	31	678,983
January	1.88	31	802,822
February	1.74	28	743,037
Total	6.32	120	2,698,849

c. Wastewater Accumulated From Normal Precipitation with 1.5 Factor

A second precipitation run-off analysis was completed by multiplying the Average Rainfall with a factor of 1.5. This is shown in Table 6.

Table 6: Wastewater Accumulated from Normal Precipitation with 1.5 Factor

<i>Month</i>	<i>Average Rainfall X 1.5 (in.)</i>	<i>Days per Month</i>	<i>Total Volume Accumulated in Each Period (gallons)</i>
November	1.67	30	711,010
December	2.39	31	1,018,474
January	2.82	31	1,204,233
February	2.61	28	1,114,556
Totals	9.48	120	4,048,273

d. Wastewater Accumulated From 25 Year, 24 Hour Storm Event

The 25 year, 24-hour storm event was assumed to happen one time during the 120-day retention period. The rainfall amount was taken from the Isopluvial Map in NOAA Atlas 2, 1973 (Appendix F). A summary of the rainfall volume is shown in Table 7.



Table 7: Wastewater Accumulated from 25 Year, 24 Hour Storm Event

<i>Area Description</i>	<i>Rainfall (inches)</i>	<i>Weighted Run-off Area (ft²)</i>	<i>Total Volume Accumulated (gallons)</i>
Wastewater Retention Pond Area	2.08	78,565	101,869
Total Impervious Part of Tributary Area	2.08	190,886	247,507
Total Pervious Part of Tributary Area	2.08	415,582	538,853
Total Production Area		685,032	888,229

e. Evaporation from Wastewater Retention Pond

During the 120 day retention period, wastewater from the ponds will evaporate. The evaporation rate average was determined by taking the average evaporation rates from Bakersfield and Fresno based on CDWR Evaporation Pan Data (Appendix G). The average evaporation rates and the total volume of water evaporated during the 120 day retention period are shown in Table 8.

Table 8: Evaporation from Wastewater Retention Pond

<i>Month</i>	<i>Bakersfield Evaporation Rate (inches)</i>	<i>Fresno Evaporation Rate (inches)</i>	<i>Average Evaporation Rate (inches)</i>	<i>Total Volume Evaporated (gallons)</i>
November	2.24	2.25	2.25	109,950
December	1.35	1.21	1.28	62,689
January	1.44	1.26	1.35	66,117
February	2.25	2.08	2.17	106,032
Total:	7.28	6.80	7.04	344,788

4. Existing Wastewater Retention Ponds Storage Capacity

a. Total Wastewater Retention Ponds Storage Volume

A field study was completed on the wastewater retention ponds. The field study identified the retention ponds to be below ground level ponds, thus allowing 1 foot of freeboard, and the ponds contained wastewater, so depths were unattainable. The retention pond dimensions were derived from the previously approved WMP and were verified during the field study. The total volume of the wastewater retention ponds was calculated based upon these values (Appendix B). The total available storage volume for the ponds is summarized in Table 10.

b. Pond System Organization

Prior to wastewater entering the retention ponds, wastewater from the westernmost open lot feed lanes is directed to the sand trap to allow heavy solids to settle from the wastewater. All other wastewater from the facility is directed into Pond 3. Effluent from the sand trap is directed into either Pond 1 or Pond 2 while the other is left to evaporate. Excess wastewater from these ponds gravity flows into Pond 3, which is equipped with a sump pump to supply the irrigation system.



c. Minimum Pond Levels

Minimum pond levels are determined by pond location and usage. *Evaporation Ponds* are allowed to dry out completely during the summer months and therefore the minimum pond level for ponds of this type is zero. *Irrigation Ponds* are pumped down to the level of residual solids¹. *Overflow Ponds* have overflow pipes to either an Evaporation Pond or an Irrigation Pond. The minimum level for these ponds is at the overflow pipe level. Table 9 identifies each pond, the minimum pond level, and the resulting volume reduction used for computing the available winter storage volume.

Table 9: Pond Capacity Reduction Criteria

<i>Pond Identification</i>	<i>Pond Type</i>	<i>Depth of Residual Solids¹ (feet)</i>	<i>Storage Period Pond Volume Reduction (cubic feet)</i>
Pond 1	Evaporation	0.00	0
Pond 2	Evaporation	0.00	0
Pond 3	Irrigation	1.00	33,170

¹ - *Residual Solids in Irrigation Ponds are assumed to be 2 feet deep if the wastewater did not pass through a solids separation system before entering the pond. If there is solids separation before entering the pond, the assumed level of residual solids is reduced by half. If there is secondary separation after the primary separation, the residual solids are reduced again by half.*

d. Pond Management

By November 1st every year, Kiss Cattle, LLC pumps down the ponds to minimum levels of wastewater to ensure that there are 120 days of storage capacity for all wastewater generated from facility operations and precipitation. Table 10 shows the total available 120-day storage period volume for all ponds on the facility.



Table 10: Maximum Available Wastewater Storage Capacity

<i>Pond Identification</i>	<i>Total Available Storage Capacity (gallons)</i>	<i>Freeboard Capacity Reduction (gallons)</i>	<i>Storage Period Pond Capacity Reduction (gallons)</i>	<i>Total Available Storage Period Capacity (gallons)</i>
Pond 1	728,852	84,016	0	644,836
Pond 2	728,852	84,016	0	644,836
Pond 3	5,750,026	327,724	248,131	5,174,171
			TOTAL:	6,463,842

5. Summary

As required in the General Order Number R5-2017-0058, the determination of the required storage capacity for the wastewater retention ponds must reflect run-off due to normal precipitation times a factor of one and a half. As shown by the Maximum Available Storage Period Capacity, the calculation results show that the retention pond capacity is adequate under these circumstances. Based on this summary, additional modifications to the facility are not required and the existing storage capacity meets the requirements of the General Order. This is summarized in Table 11.

Table 11: Existing vs. Required Wastewater Retention Pond Storage Capacity

<i>Volume Description</i>	<i>Total Volume in 120 Day Period (gallons)</i>
Wastewater from Operations	92,397
Wastewater Accumulated From Normal Precipitation w/ 1.5 Factor	4,048,273
Wastewater Accumulated From 25 Year, 24 Hour Event	888,229
Less: Evaporation from Wastewater Retention Ponds	(344,788)
Net Required Wastewater Retention Pond Storage Volume	4,684,110
Less: Net Existing Wastewater Retention Ponds Storage Volume	6,463,842
Excess Wastewater Retention Pond Capacity	1,779,732

B. Proposed Modifications

Kiss Cattle, LLC proposes to remove five (5) open lot corral shades and to construct two (2) new feed lanes and two (2) new corral shades in the corresponding open lot corrals. The facility also proposes to construct numerous calf hutches. All proposed structures will be constructed within the tributary area of the facility. Based upon this WMP, the facility will remain compliant with the standards required by the General Order, following the construction of the proposed improvements.

C. Contingency Plan

A contingency plan is not required because the wastewater retention ponds have enough existing storage capacity for the storm water precipitation and run-off volume with a 1.5 factor.



III. Flood Protection Analysis

The Federal Emergency Management Agency (FEMA) provides a Flood Insurance Rate Map which identifies different flood zone areas. The Flood Insurance Rate Map, Panel 2100H Community Panel Number 06019C2100H, February 18, 2009, indicates that the production area is in a Zone X designation (Attachment G).

Zone X represents areas outside the 1-percent annual chance floodplain, areas of 1% annual chance sheet flow flooding where average depths are less than 1 foot, areas of 1% annual chance stream flooding where the contributing drainage area is less than 1 square mile, or areas protected from the 1% annual chance flood by levees. No Base Flood Elevations or depths are shown within this zone. Insurance purchase is not required in these zones.

Based on the existing FEMA Flood Insurance Rate Map and the topographic survey, the facility has adequate flood protection. As the facility was observed during the field study, no inundations or washouts from flood waters were visible. Due to the continued maintenance of the flood production area roads, rodent control, and weed control, any inundations or washouts from flood waters are very unlikely.



IV. Production Area Design Assessment

A. Existing Conditions

All wastewater produced by the facility and all storm water run-off from areas that contact manure are directed to the existing wastewater retention ponds. A complete field study of the production area was completed to verify the drainage directions and slopes. The drainage directions and slopes are shown in the Production Area, Attachment B; and the Storm Water Tributary Area Map, Attachment D. The following sections provide a more detailed description of the run-off from the different areas within the production area:

1. Corrals

Open lot corrals are sloped to the rear of the corrals to a localized low spot that is pumped to the wastewater retention ponds via a mobile sump pump within 72 hours of a storm event. Each corral is graded with a minimum slope to prevent standing wastewater.

2. Enclosed Animal Housing Areas

Storm water run-off from animal housing areas, including roofs and shades, are collected in gutters and drain directly into the flush system. Gutters and downspouts are maintained as necessary to keep them functional.

3. Manure & Feed Storage Areas

The manure storage area is located in the rear of the open lot corrals. Any run-off is pumped to the ponds within 72 hours of the storm event.

The feed storage area is graded to a localized low spot that is pumped to the ponds within 72 hours of the storm event.

B. Required Modifications to Existing Facility

After review of the production area and verification of the existing site conditions based upon the field study, it was determined that all process wastewater and storm water run-off that contacts manure is diverted and stored in the wastewater retention ponds. No facility modifications are required.



V. Operation & Maintenance Plan

The following sections outline the existing general operations of the facility and the existing maintenance plan:

A. Precipitation & Surface Drainage of Non-Manured Areas

All precipitation and surface drainage from outside manured areas, including that collected from roofed areas, is diverted away from manured areas, unless such drainage is fully contained and is included in the storage requirement calculations required in item II, above;

The Production Area Map (Attachment B) identifies the drainage direction of all run-offs within the production area. All drainage from the manured and roofed areas within the production areas is included in the storage volume calculations for the wastewater retention ponds. Any precipitation and surface drainage outside the manured areas is adequately diverted away from manured areas. If not, then drainage is collected and stored in the ponds. The Storm Water Tributary Area Map (Attachment D) identifies the limits of the run-off area included in the retention pond volume analysis.

B. Pond Management

Ponds are managed to maintain the required freeboard and to prevent odors, breeding of mosquitoes, damage from burrowing animals, damage from equipment during removal of solids, embankment settlement, erosion, seepage, excess weeds, algae, and vegetation;

On an annual basis, burrowing animals living in the vicinity of the ponds are exterminated to reduce population levels, thus reducing and preventing damage to the pond embankments. On a monthly basis, pictures of the ponds are taken to record the existence of the minimum 1 foot freeboard. The wastewater in the Irrigation Ponds is agitated and drawn down on a periodic basis during the crop growing season in accordance with the Nutrient Management Plan. These draw-downs maintain the pond's required freeboard. Excess weeds and vegetation are periodically removed. Oil is applied to the water surface periodically during the mosquito breeding season.

C. Pond Storage Volume Maintenance for Winter Months

Holding ponds provide necessary storage volume prior to winter storms, maintain capacity considering buildup of solids, and comply with the minimum freeboard required in Waste Discharge Requirements General Order No. R5-2017-0058;

Existing Wastewater Retention Pond Storage Capacity is described in Section II.A.4.

D. Elimination of Discharge to Surface Waters

There is no discharge of waste or storm water to surface waters from the production area;

There are no areas where wastewater is discharged to surface water or areas where storm water run-off can enter surface water.



E. Pond Solids Removal Procedures

Procedures have been established for removal of solids from any lined pond to prevent damage to the pond liner;

Solids are removed from the wastewater using the sand trap. During the crop growing season, the wastewater in Pond 3 is agitated and pumped to the land application areas at agronomic rates. Using the combination of sand separation, separator ponds, and agitation, pond solids are kept to a minimum level. As solids accumulate in the ponds, they are removed with an excavator keeping careful consideration not to damage the existing pond liner.

F. Corral and/or Pen Maintenance

Corrals and/or pens are maintained to collect and divert all process wastewater to the retention pond and to prevent ponding of water and to minimize infiltration of water into the underlying soils;

Kiss Cattle, LLC uses an employee to maintain corrals and bedding, weather permitting. During the winter months, the open lot corrals are maintained to prevent excess manure buildup. Any excess manure is stacked in the rear of the corral and removed during the spring.

Areas within the facility that pond after a storm event and areas of broken concrete are noted during the winter months. During the dry season, these areas are compacted, patched, and repaired to ensure all wastewater is diverted to the wastewater retention ponds to minimize infiltration of water into the underlying soils. Any ponding rainwater is pumped to the wastewater ponds within 72 hours of rainfall event.

During the summer months, corral surfaces are cleaned and repaired to ensure proper drainage. Slopes are maintained to diminish ponding. Accumulation of manure under fence lines is removed to ensure proper drainage. Weeds and other accumulated debris in drainage weirs behind corrals are removed.

G. Animal Housing Area Maintenance

The animal housing area (e.g., barn, shed, milk parlor, etc.) is maintained to collect and divert all water that has contacted animal wastes to the retention pond and to minimize the infiltration of water into the underlying soils;

The animal housing area maintenance program is described in Item F above.

H. Manure & Feed Storage Area Maintenance

Manure and feed storage areas are maintained to ensure runoff and leachate from these areas are collected and diverted to the retention pond and to minimize infiltration of leachate from these areas to the underlying soils;

The manure and feed storage area maintenance is described in Section IV.A.



I. Dead Animal Disposal

All dead animals are disposed of properly;

Dead animals are collected as necessary and transported to a dead animal enclosure. The dead animals are removed by a six-day-per-week pickup rendering service.

J. Chemical & Contaminant Handling

Chemicals and other contaminants handled at the facility are not disposed of in any manure or process wastewater, or storm water storage or treatment system unless specifically designed to treat such chemicals and other contaminants;

The chemical concentrations are diluted by the approximately 281,040 gallons of wastewater produced annually by the facility. The low chemical concentration levels caused by this dilution are not detectable.

K. Prevention of Animal Trespassing of Surface Waters

All animals are prevented from entering any surface water within the confined area;

Animals are prevented from entering any surface water near the boundary of the production area by the corral fencing. The fence is inspected and maintained by the facility operator to prevent animals from trespassing into the surface waters.

L. Salt Limitations in Animal Rations

Salt in animal rations is limited to the amount required to maintain animal health and optimum production.

Salt in animal rations is fed per National Research Council Guidelines under the supervision of a professional nutritionist retained as a consultant to Kiss Cattle, LLC. Salt intake is limited to the amount required to maintain animal health and optimal milk production.



VI. Backflow Prevention Plan

Backflow is the undesirable reversal of flow of water or mixtures of water and other liquids, gases, or other substances into the distribution pipes of the potable supply of water from any source. Per the General Order, there are to be no cross-connections that would allow the backflow of wastewater into a water supply well, irrigation well, or surface water. This requires an air gap, or physical separation between the discharge end of the water supply pipe and an open or non-pressure receiving vessel. To effectively prevent backflow, an air gap must be at least double the diameter of the water supply pipe, unless otherwise noted by the Natural Resources Conservation Services equation for determining air gap size.

VII. Changed Conditions & Limitations

The findings of this report are valid as of the date of this report. However, if there are any changes to the existing facility, including management of wastewater, barn efficiency, expansion, new improvements, and/or operations, a Registered Civil Engineer shall be notified to review the change(s) at the facility to determine if calculations for this report are still applicable. If the change alters the waste management for the facility, an updated Waste Management Plan shall be submitted to the California Regional Water Quality Control Board, Central Valley Region (CRWQCB).

The CRWQCB shall be notified via a letter of any change in the facility name, owner, operator, or contact person of the facility. If the owner decides to terminate the operations at this facility, a closure plan will be submitted to the CRWQCB.

The validity of the analysis contained in this report is dependent upon the prescribed testing, observation, and analysis program specified by 4Creeks, Inc. during the operation of the facility. Any recommendations in the report shall be reviewed and observed using the same program. Our firm assumes no responsibility for the compliance of the recommendations with these design concepts unless we have been retained to perform the observation and review during the installation and operation of any recommended items.

4Creeks, Inc. has prepared this report for the exclusive use of the said client. The report has been prepared in accordance with generally accepted practices of engineering. No other warranties, either expressed or implied, are made as to the professional advice provided in this report.



VIII. Regional Water Quality Control Board Correspondence & Revision Record

Correspondence:

Date Received Description

Revision Record:

Revision # Date Section Description





IX. References

- California Regional Water Quality Control Board - Central Valley Region – Order Number R5-2013-0122
"Waste Discharge Requirements General Order for Existing Milk Cow Dairies"
- California Department of Water Resources, Online Data from Sampling Stations (HND, VSL)
<http://cdec.water.ca.gov/selectQuery.html>
- California Irrigation Management Information System (CIMIS), Online Data from Sampling Station (#169)
<http://www.cimis.water.ca.gov/cimis/data.jsp>
- California Department of Water Resources, Online Data for Evaporation
<http://www.sjd.water.ca.gov/landwateruse/evaporation/>
- California Department of Water Resources, Online Groundwater Level Data Reports
<http://www.water.ca.gov/waterdatalibrary/groundwater/>
- NOAA Geodetic to State Plane Coordinates (SPC) http://www.ngs.noaa.gov/cgi-bin/spc_getpc.prl
- NOAA Online Weather Data, NOAA Atlas 2, 1973 for 25 yr, 24 hr event
<http://www.wrcc.dri.edu/pcpnfreq/sca25y24.gif>
- Title 27 of the California Code of Regulations (CCR), Division 2, Subdivision 1, Chapter 7, Subchapter 2,
Article 1 <http://www.ciwmb.ca.gov/Regulations/Title27/ch7s2345.htm#Article1>
- Water Quality Control Plan for the Tulare Lake Basin, 2nd Edition
http://www.swrcb.ca.gov/centralvalley/water_issues/basin_plans/tlbp.pdf





SITE LOCATION

LEGEND	
	5 MILE RADIUS
	PROJECT SITE

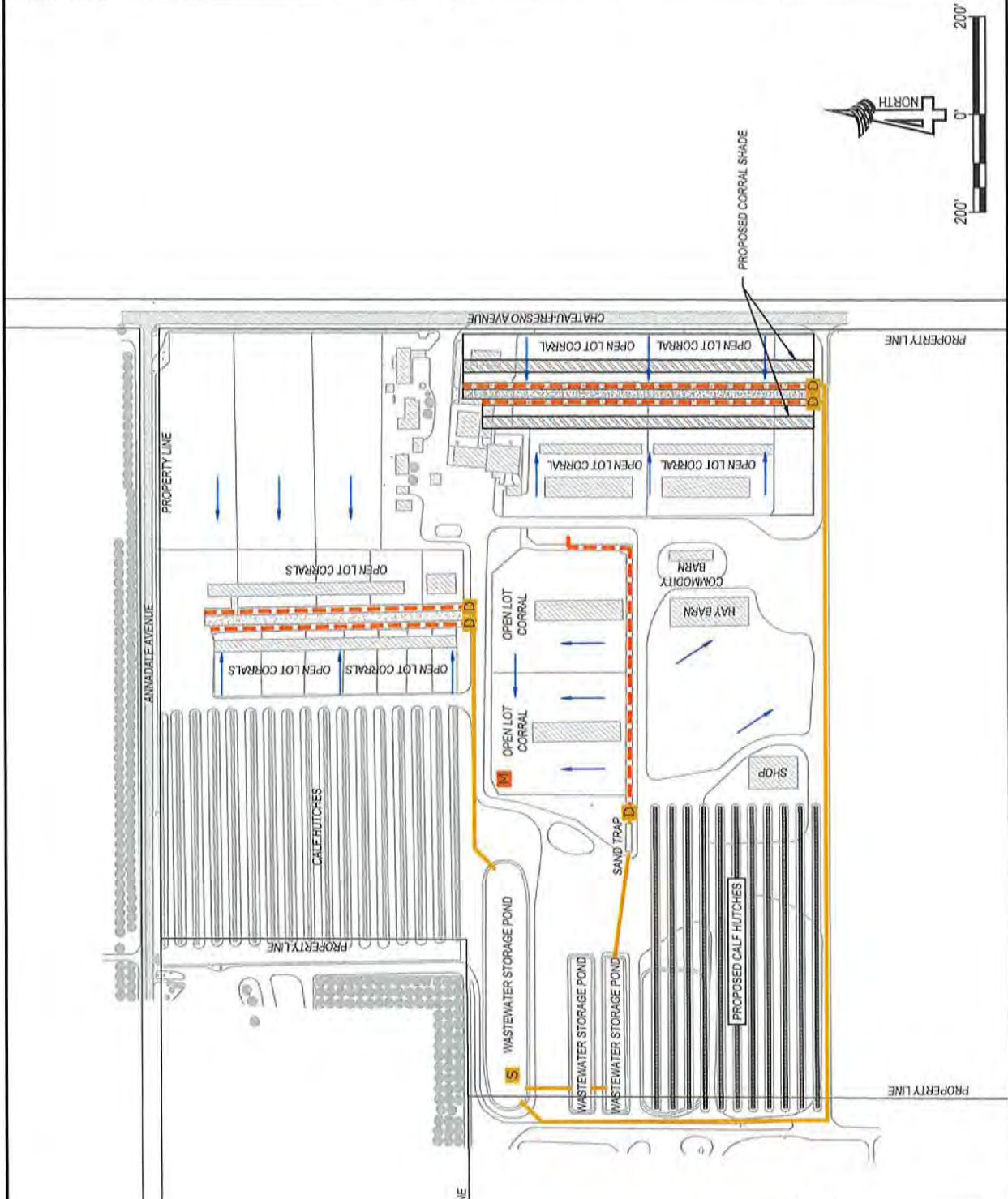
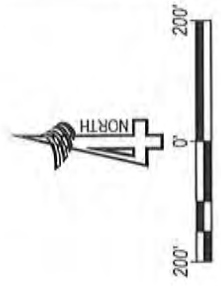


324 S. SANTA FE, STE. A
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VICINITY MAP
KISS CATTLE, LLC
FRESNO COUNTY, CA



JOB NO. 19070
ATTACHMENT A
11/19/2019
1" = 2 MILES



LEGEND

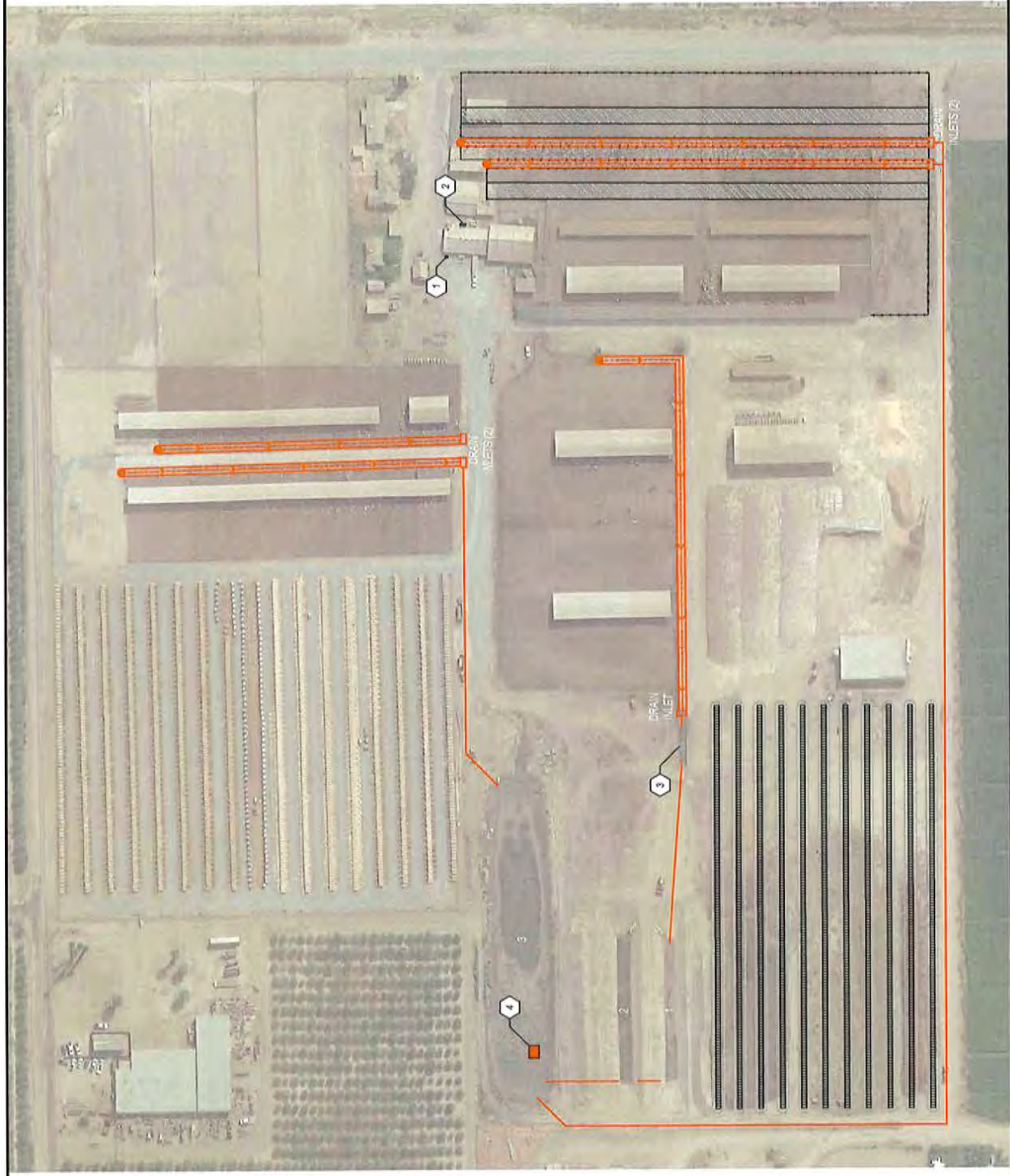
	DRAINAGE PIPE
	DRAINAGE SWALE
	NON-MANURE DRAINAGE SWALE
	DIRECTION OF SLOPE
	WASTEWATER DRAIN INLET
	SUMP PUMP
	MOBILE SUMP PUMP





WASTEWATER FLOW KEYNOTES

- 1. WATER SUPPLY WELL:
PUMPS WATER INTO
HYDRO-PNEUMATIC TANK.
- 2. HYDRO-PNEUMATIC TANK:
SOURCE: WATER SUPPLY WELL.
PRESSURIZES WATER DISTRIBUTION
SYSTEM.
- 3. SAND TRAP:
SOURCE: RUN-OFF FROM FLUSH
LAVES. DIVERTS WASTEWATER TO
RETENTION PONDS.
- 4. SUMP PUMP:
PROVIDES IRRIGATION WATER TO
FIELDS.

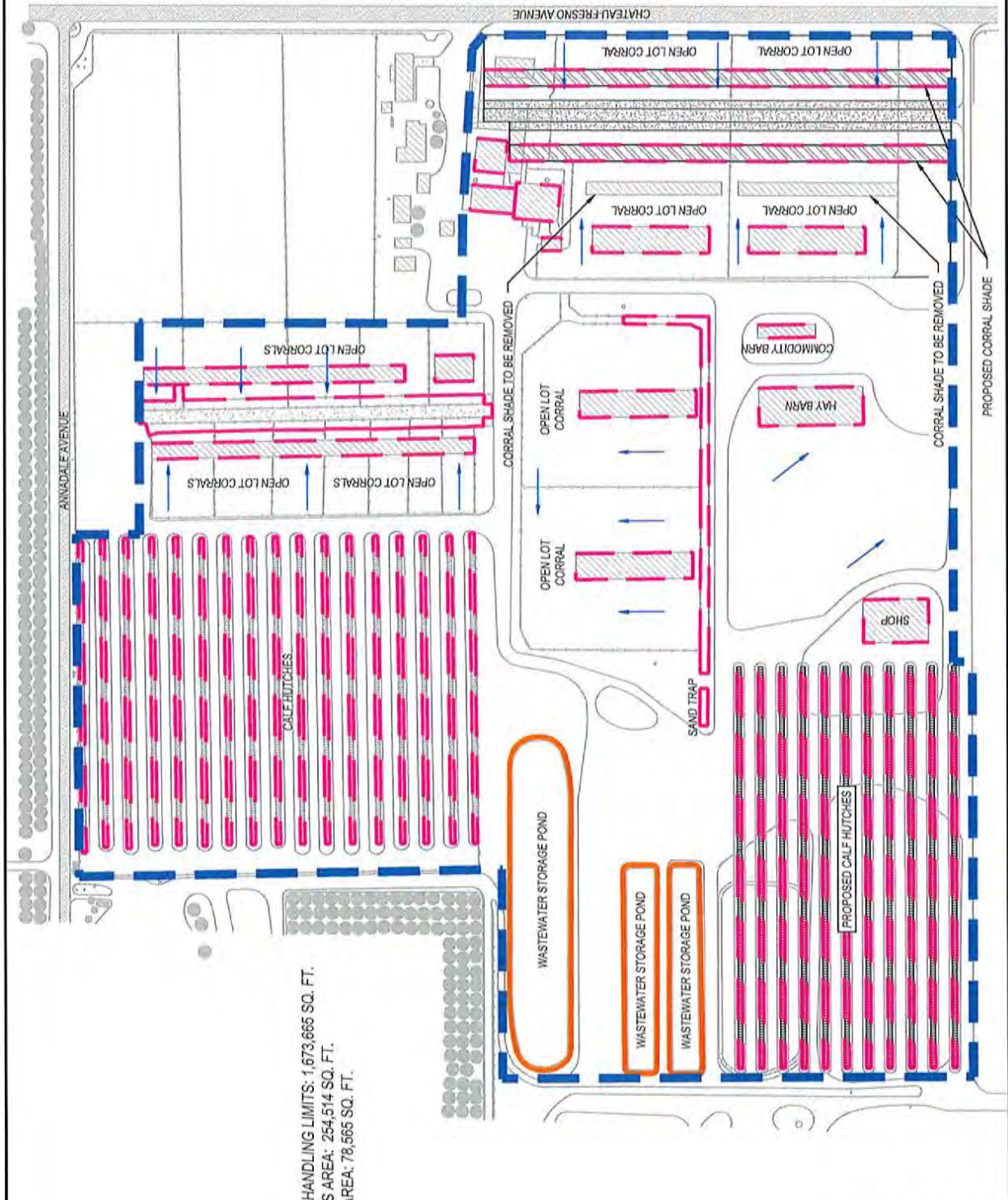


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 Ukiah, CA 92322
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 www.4creks.com

DAIRY FACILITY WASTEWATER FLOW DIAGRAM
 KISS CATTLE, LLC
 FRESNO COUNTY, CA



JOB NO. 19070
 ATTACHMENT C
 1/18/2019
 1" = 100'



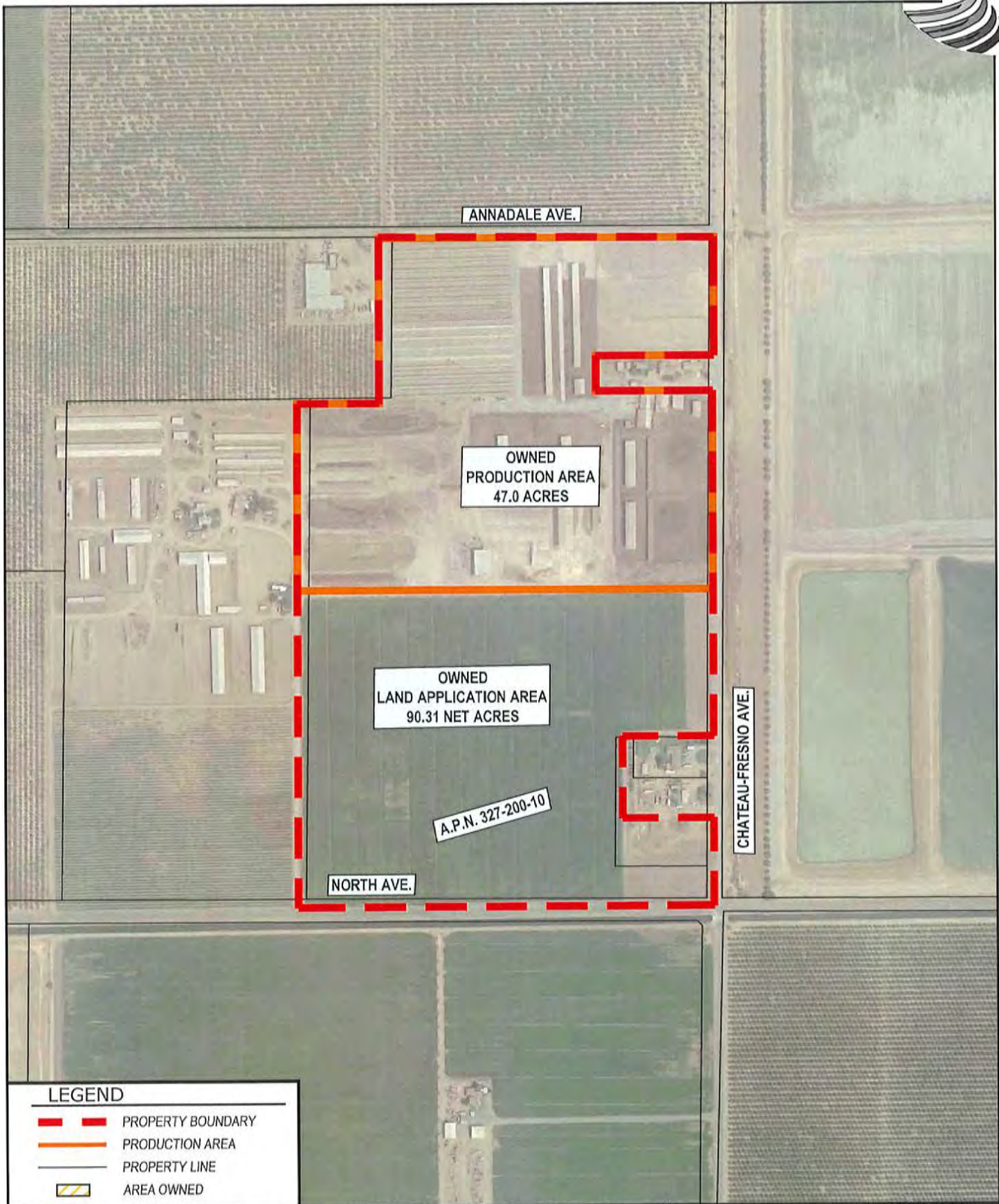
TOTAL AREA WITHIN MANURE HANDLING LIMITS: 1,673,665 SQ. FT.
 TOTAL IMPERVIOUS AREA: 254,514 SQ. FT.
 TOTAL POND AREA: 78,565 SQ. FT.

150' 0' 150'





LEGEND

- IMPERVIOUS AREA BOUNDARY
- - - - - TRIBUTARY AREA BOUNDARY
- WASTEWATER POND AREA
- DIRECTION OF SLOPE

NORTH



LEGEND

-  PROPERTY BOUNDARY
-  PRODUCTION AREA
-  PROPERTY LINE
-  AREA OWNED



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APN IDENTIFICATION MAP
KISS CATTLE, LLC
FRESNO COUNTY, CA



JOB NO. 19070
ATTACHMENT E
11/5/2019
1" = 1,000'

Kiss Cattle, LLC Land Area Map



- Legend**
- Fields
 - Contracted Fields(s) / Acres
 - Facility Area
 - Wastewater Agreement
 - Vulnerable Area
 - APN Parcels
 - Flow Meter
 - Mixing Point
 - Pumping Station
 - Discharge Point
 - Tailwater Point
 - Tailwater Line
 - Surface Water
 - Transfer Canal
 - Wastewater Transfer Canal
 - Transfer Pipe
 - Transfer Pipe with Discharge Points
 - WW Transfer Pipe
 - WW Transfer Pipe with Discharge Points
 - Wells (Controlled)
 - Domestic
 - Groundwater Monitoring
 - Inactive
 - Irrigation
 - Wells (Not Controlled)
 - Domestic
 - Irrigation
 - Drainage Flow Direction





LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO URADATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, A1, A2, A3, A99, X, and VE. The Base Flood Elevation is the maximum elevation of the 1% annual chance flood.

- ZONE A** No Base Flood Elevation determined.
- ZONE AE** Base Flood Elevation determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponds); base Flood Elevation determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of shallow fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently abandoned. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE ARF** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevation determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevation determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); base Flood Elevation determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE E Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X Areas determined to be outside the 0.2% annual chance floodplain.

Areas in which flood hazards are unclassified, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- Floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary defining Special Flood Hazard Area zones and boundary defining Special Flood Hazard Area of Different Base Flood Elevations, flood depths or flood velocities
- Base Flood Elevation line and value; elevation in feet*
- Base Flood Elevation value where uniform within area; elevation in feet*

* Referenced to the North American Vertical Datum of 1988

- Cross section line
- Traversed line
- Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
- 1000-meter Universal Transverse Mercator grid values, zone 10
- 8000-foot grid scale: California State Plane coordinate system, zone IV (FIPS2000E 0401), Lambert Conformal Conic projection
- North arrow (See explanation in Notes to Users section of this FIRI panel)
- Scale: N/A

MAP REPOSITORY
Refer to Index of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
July 18, 2001

EFFECTIVE DATES OF REVISIONS TO THIS PANEL

February 18, 2009: To update topographic data, change base flood elevation boundary, and Special Flood Hazard Areas, to add roads and road names and to incorporate previously issued letters of map modification.

For comments by map readers on history prior to an online life mapping, refer to the Community Map history at the location in the Flood Insurance Study report for this jurisdiction.
To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-426-6626.

Fresno County Incorporated Areas 065029

Paragon Ditch

S WEST LAWN AVENUE

SITE LOCATION

ZONE X

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 2100H

FIRM FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 2100 OF 3525

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

COMMUNITY

COMMUNITY	MAP NO.	PANEL	SUFFIX
FRESNO COUNTY	06019	2100	H
FRESNO, CITY OF	06004	2100	H

Notes to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
06019C2100H

MAP REVISED
FEBRUARY 18, 2009

Federal Emergency Management Agency

Central Wasteway

LEGEND

- LIMITS OF PRODUCTION AREA
- LIMITS OF FARMING OPERATION

4CREEKS

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(559) 802-3052

FEMA MAP
KISS CATTLE, LLC
FRESNO COUNTY, CA

JOB NO. 19070

ATTACHMENT G

11/19/2019

1" = 2000'

APPENDIX A

Wastewater Retention Pond Volume Analysis





Wastewater Retention Pond Volume Analysis

KISS CATTLE, LLC

Calculations Completed By: CGM
 Calculations Checked By: KMP
 Date: 11/22/2019

A. EXISTING POND STORAGE VOLUME

SUMMARY (See Appendix B for Calculations)

Pond	Pond Type	Depth of Pond November 1st (ft)	Storage Period Pond Volume Reduction (ft ³)
Pond 1:	Evaporation	0.00	0
Pond 2:	Evaporation	0.00	0
Pond 3:	Irrigation	1.00	33,170

Pond	Total Raw Volume (gal)	1 Foot Freeboard Reduction (gal)	Storage Period Pond Reduction (gal)	Total Retention Volume (gal)
Pond 1:	728,852	84,016	0	644,836
Pond 2:	728,852	84,016	0	644,836
Pond 3:	5,750,026	327,724	248,131	5,174,171
TOTAL:				6,463,842

B. PROCESS WASTEWATER VOLUME ANALYSIS

Age of Animal & Housing Type	# of Animals	Waste Produced - Urine & Manure (ft ³ /day) (ASABE 384.2)	Hours/Day on Flush Surface	Sand Trap with Separation Pond Reduction Factor	Total (gal/day)
Heifers: 15-24 mo. (Open Lot)	400	0.78	3	56%	131
Heifers: 7-14 mo. (Open Lot)	600	0.78	3	55%	197
Heifers: 4-6 mo. (Open Lot)	3,500	0.3	3	55%	442
Calves: 0-3 mo. (Hutches)	3,500	0.12	0	56%	0
Total :					770

Summary:

Wastewater Source	Volume (gal./day)	Total Volume Accumulated in 120 day period (gal.)
Animal Output (Urine & Manure):	770	92,397
Total Process Wastewater Volume From Operations:	770	92,397

C. PRECIPITATION RUN-OFF VOLUME ANALYSIS

Rainfall Run-off from Production Area (Attachment D)

Total Production Tributary Area	1,673,665	ft ²
	38.42	acres

Run-off Coefficients (Appendix H)

Runoff Coefficient for Impervious:	0.75
Runoff Coefficient for Pervious:	0.31

Production Area Subdivision Summary

Area Description	Run-off Area (ft ²)	Run-off Coefficient	Weighted Run-off Area (ft ²)
Wastewater Retention Pond Area	78,565	1.00	78,565
Total Impervious Area	254,514	0.75	190,886
Total Pervious Area	1,340,586	0.31	415,582
Total Production Area	1,673,665		685,032

Conversion Factor: 0.623377
 (7.48051941 gal/ft³ x 1 ft/12 in)

25 year 24 hour Rainfall Event

Source: NOAA Online Weather Data: NOAA Atlas 2, 1973 for 25 yr / 24 hr (Appendix F)

Area Description	Rainfall (in.)	Weighted Run-off Area	Total Volume Accumulated (gal)
Wastewater Retention Pond Area	2.08	78,565	101,869
Total Impervious Part of Tributary Area	2.08	190,886	247,507
Total Pervious Part of Tributary Area	2.08	415,582	538,853
Total Production Area		685,032	888,229

Run-Off to Wastewater Retention Basin	Rational Method - Equation:
Source: California Department of Water Resources (DWR) & California Irrigation Management Information Systems (CIRMS) Orfho Data from Sampling Stations, Appendix E.	$Average\ Rainfall\ (in)/12 \times (Total\ Production\ Area\ (ft^2) - Wastewater\ Pond\ Area(ft^2)) \times (Weighted\ Run-off\ Coefficients) \times 2.4051941\ (ft^3\ to\ gallons) = Normal\ Rainfall\ Run-off\ Volume\ to\ Pond\ (gallons)$

Normal Precipitation & Run-off

Month	Ave. Rainfall (in.)	Days of Retention	Total Volume Accumulated in Each Period (gal.)
November	1.11	30	474,007
December	1.59	31	678,983
January	1.83	31	802,822
February	1.74	28	743,037
Total:	6.32	120	2,698,849

Normal Precipitation & Run-off times a factor of 1.5

Month	Ave. Rainfall X 1.5 (in.)	Days of Retention	Total Volume Accumulated in Each Period (gal.)
November	1.67	30	711,010
December	2.39	31	1,018,474
January	2.82	31	1,204,233
February	2.61	28	1,114,556
Total:	9.48	120	4,048,273

Evaporation from Wastewater Basin

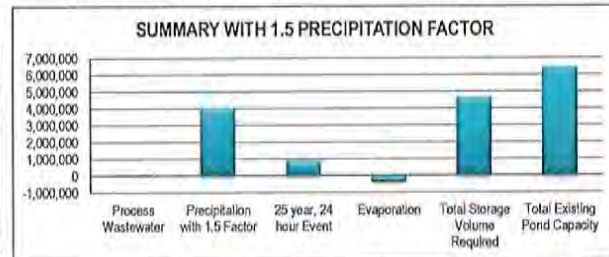
Source: DWR-San Joaquin District Plan Evaporation Monthly Averages for Fresno and Bakersfield from 1958-2010 (Appendix G)

Month	Bakersfield Evaporation Rate (in.)	Fresno Evaporation Rate (in.)	Average Evaporation Rate (in.)	Total Volume Evaporated (gal.)
November	2.24	2.25	2.25	109,950
December	1.35	1.21	1.28	62,689
January	1.44	1.26	1.35	66,117
February	2.25	2.08	2.17	106,032
Total:	7.28	6.80	7.04	344,788

D. SUMMARY OF REQUIRED WASTEWATER RETENTION POND STORAGE VOLUME:

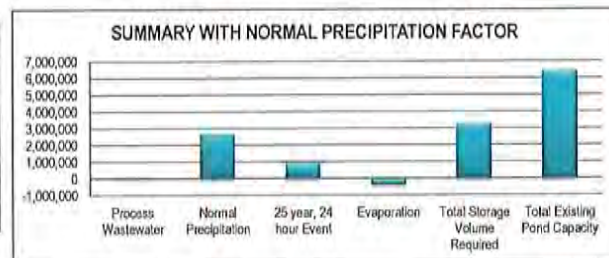
1.5 PRECIPITATION FACTOR

Volume Description	Total Volume in 120 Day Period (gal.)
Wastewater from Operations	92,397
Wastewater Accumulated From Normal Precipitation w/ 1.5 Factor	4,048,273
Wastewater Accumulated From 25 Year, 24 Hour Event	888,229
Less: Evaporation from Wastewater Retention Ponds	(344,788)
Net Required Wastewater Retention Pond Storage Volume	4,684,110
Less: Net Existing Wastewater Retention Ponds Storage Volume	6,463,842
Excess Wastewater Retention Pond Capacity	1,779,732



1.5 PRECIPITATION FACTOR NOT INCLUDED

Volume Description	Total Volume in 120 Day Period (gal.)
Wastewater from Operations	92,397
Wastewater Accumulated From Normal Precipitation w/o 1.5 Factor	2,698,849
Wastewater Accumulated From 25 Year, 24 Hour Event	888,229
Less: Evaporation from Wastewater Retention Ponds	(344,788)
Net Required Wastewater Retention Pond Storage Volume	3,334,886
Less: Net Existing Wastewater Retention Ponds Storage Volume	6,463,842
Excess Wastewater Retention Pond Capacity	3,129,156



Total Available Retention Days of Storage (1.5 factor): 165.6
 Total Available Retention Days of Storage (Normal): 232.6

APPENDIX B

Wastewater Retention Pond Field Capacity Analysis





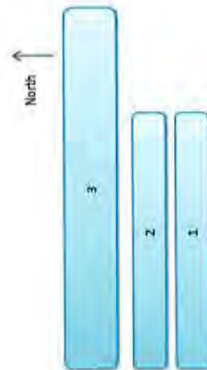
4CREEKS

Wastewater Retention Pond Field Capacity Analysis

KISS CATTLE, LLC

Calculations Completed By: DCM
 Calculations Checked By: KMP
 Date: 11/22/2019

KEY MAP



Volume Formulas
 $B_1 = (L)(W)$
 $B_2 = \frac{L \cdot (2S_d)(W - (2S_d))}{2}$
 $M = \frac{L \cdot (S_d)(W - (S_d))}{2}$
 Volume = $Md(B_1 + 4B_2 + B_3)$



SUMMARY

Pond	Total Raw Volume (ft³)	1 Foot Freeboard Reduction (ft³)	Storage Period Pond Volume Reduction (ft³)	Total Retention Volume (ft³)
Pond 1:	97,433	11,231	0	86,202
Pond 2:	97,433	11,231	0	86,202
Pond 3:	798,867	43,810	33,170	691,886
TOTAL:				864,290

Pond	Total Volume (gal)	1 Foot Freeboard Reduction (gal)	Storage Period Pond Reduction (gal)	Total Retention Volume (gal)
Pond 1:	728,852	84,016	0	644,836
Pond 2:	728,852	84,016	0	644,836
Pond 3:	5,750,026	307,724	248,151	5,174,171
TOTAL:				5,663,543

Definitions:

Overflow Pond: Capacity is that volume above the overflow point, less the freeboard
 Infiltration Pond: Capacity is that volume above the residual solids, less the freeboard
 Evaporation Pond: Capacity is the entire "raw capacity", less the freeboard

* Residual Solids are assumed to be 2 feet deep if the wastewater did not pass through a solids separation system before entering the pond. If there is solids separation before entering the pond, the assumed level of residual solids is reduced by half. If there is secondary separation after the primary separation, the residual solids are reduced again by half.

Pond #1 - Evaporation Pond

Existing Pond Surveyed Dimensions

	Total Volume (ft³)	1 Foot Freeboard Reduction (ft³)	Storage Period Pond Reduction (ft³)
Pond Top Length	300.00	300.00	250.00
Pond Top Width	38.00	38.00	28.00
Average Depth (d)	10.00	1.00	0.00
Side Slope H:V (S)	0.50	0.50	0.50
Wastewater Pond Surface Area	11,400	11,400	8,120
Calculations:			
$B_1 =$	11,400	11,400	8,120
$B_2 =$	8,120	11,063	8,120
$M =$	9,735	11,231	8,120
Calculated Volume (ft³):	97,433	11,231	0

Note: Pond depth and side slopes derived from 2010 WWP calculations.

Pond #2 - Evaporation Pond

Existing Pond Surveined Dimensions

	Total Volume (ft ³)	1 Foot Freeboard Reduction (ft ³)	Storage Period Pond Reduction (ft ³)
Pond Top Length	300.00	300.00	290.00
Pond Top Width	38.00	38.00	26.00
Average Depth (d)	10.00	1.00	0.00
Side Slope H:V (S)	0.50	0.50	0.50
Wastewater Pond Surface Area	11,400	11,400	8,120
Calculations:			
B ₁ =	11,400	11,400	8,120
B ₂ =	8,120	11,093	8,120
M=	9,795	11,231	8,120
Calculated Volume (ft ³):	97,433	11,231	0

Note: Pond depth and side slopes derived from 2010 WMP calculations.

Pond #3 - Irrigation Pond

Existing Pond Surveined Dimensions

	Total Volume (ft ³)	1 Foot Freeboard Reduction (ft ³)	Storage Period Pond Reduction (ft ³)
Pond Top Length	490.00	490.00	471.00
Pond Top Width	90.00	90.00	71.00
Average Depth (d)	20.00	1.00	1.00
Side Slope H:V (S)	0.50	0.50	0.50
Wastewater Pond Surface Area	44,100	44,100	33,441
Calculations:			
B ₁ =	44,100	44,100	33,441
B ₂ =	32,900	43,521	32,900
M=	38,400	43,810	33,170
Calculated Volume (ft ³):	733,657	43,810	33,170

Note: Pond depth and side slopes derived from 2010 WMP calculations.

APPENDIX C

Animal Output Data



ASAE D384.2 MAR2005
Manure Production and Characteristics



American Society of
Agricultural and Biological Engineers

**S
T
A
N
D
A
R
D**

ASABE is a professional and technical organization, of members worldwide, who are dedicated to advancement of engineering applicable to agricultural, food, and biological systems. ASABE Standards are consensus documents developed and adopted by the American Society of Agricultural and Biological Engineers to meet standardization needs within the scope of the Society; principally agricultural field equipment, farmstead equipment, structures, soil and water resource management, turf and landscape equipment, forest engineering, food and process engineering, electric power applications, plant and animal environment, and waste management.

NOTE: ASABE Standards, Engineering Practices, and Data are informational and advisory only. Their use by anyone engaged in industry or trade is entirely voluntary. The ASABE assumes no responsibility for results attributable to the application of ASABE Standards, Engineering Practices, and Data. Conformity does not ensure compliance with applicable ordinances, laws and regulations. Prospective users are responsible for protecting themselves against liability for infringement of patents.

ASABE Standards, Engineering Practices, and Data initially approved prior to the society name change in July of 2005 are designated as 'ASAE', regardless of the revision approval date. Newly developed Standards, Engineering Practices and Data approved after July of 2005 are designated as 'ASABE'.

Standards designated as 'ANSI' are American National Standards as are all ISO adoptions published by ASABE. Adoption as an American National Standard requires verification by ANSI that the requirements for due process, consensus, and other criteria for approval have been met by ASABE.

Consensus is established when, in the judgment of the ANSI Board of Standards Review, substantial agreement has been reached by directly and materially affected interests. Substantial agreement means much more than a simple majority, but not necessarily unanimity. Consensus requires that all views and objections be considered, and that a concerted effort be made toward their resolution.

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ASABE, 2950 Niles Road, St. Joseph, MI 49085-9659, USA ph. 269-429-0300, fax 269-429-3852, hq@asabe.org

Table 1.b – Section 3 – All other livestock and poultry. Diet based numbers are in **BOLD**. See footnotes 2 and 3 for source of non-bold values.

Animal Type and Production Grouping	Total solids ³	Volatile solids ³	COD ^{3,4}	BOD ^{3,4}	Nitrogen	P	K	Ca	Mg	Total Manure ⁵	Moisture ⁶	
	kg / day-animal (d-a)											
										kg / (d-a)	liter / d-a.	% w.b.
Beef - Cow (confinement) ^{7,10}	6.6	5.9	6.2	1.4	0.19	0.044	0.14	0.089		-	-	88
Beef - Growing Calf (confinement)	2.7	2.3	2.3	0.52	0.13	0.025	0.085	0.040		22	22	88
Dairy - Lactating cow	8.9	7.5	8.1	1.30	0.45	0.078	0.103			68	68	87
Dairy - Dry cow	4.9	4.2	4.4	0.626	0.0079	0.03	0.148			38	3	87
Dairy - Milk fed calves					0.063					8.5	8.5	83
Dairy - Calf-150 kg	1.4	3.2	3.4	0.54	0.12	0.020	0.0199			22	22	83
Dairy - Heifer-440 kg	3.7	3.0		0.48	0.015	0.013	0.027	0.023	0.009	3.5	3.5	96
Dairy - Veal-118 kg	3.8	3.1		0.49	0.089	0.013	0.095	0.069	0.018	25	25	85
Horse - Sedentary-500 kg ⁸	3.9	3.1		0.50	0.15	0.033	0.0048	0.0022		26	26	85
Horse - Intense exercise -500 kg ⁸	0.022	0.016	0.018	0.0050	0.0016	0.0048	0.0058			0.088	0.088	75
Layer	0.50	0.45	0.47	0.17	0.032	0.009	0.022			5.0	5.0	90
Swine - Gestating sow-200 kg	1.2	1.0	1.1	0.38	0.085	0.025	.053			12	12	90
Swine - Lactating sow ⁹ -192 kg					0.028	0.0097	.0176			3.8	3.8	90
Swine - Boar-200 kg	0.38	0.34	0.27	0.13								
	lb / day-animal (d-a)											
										lb / d-a.	ft ³ / d-a.	% w.b.
Beef - Cow (confinement) ^{7,10}	15	13	14	3.0	0.42	0.097	0.30	0.20		-	-	88
Beef - Growing Calf (confinement)	6.0	5.0	5.2	1.1	0.29	0.055	0.19	0.088		50	0.81	88
Dairy - Lactating cow	20	17	18	2.9	0.99	0.17	0.23			150	2.4	87
Dairy - Dry cow	11	9.2	9.7	1.4	0.50	0.066	0.33			83	1.3	87
Dairy - Milk fed calves					0.017							
Dairy - Calf-330lb	3.2	7.1	7.5	1.2	0.14	0.044	0.044			19	0.30	83
Dairy - Heifer-970 lb	8.2	6.6		0.26	0.083	0.0099	0.060			48	0.78	83
Dairy - Veal-260 lb	0.27	8.4		1.1	0.20	0.029	0.073	0.051	0.020	7.8	0.12	96
Horse - Sedentary-1,100 lb ⁸	8.6	6.8		1.1	0.34	0.073	0.21	0.15	0.040	56	0.90	85
Horse - Intense exercise -1,100 lb ⁸	0.049	0.036	0.039	0.011	0.0035	0.011	0.048	0.0048		57	0.92	85
Layer	1.1	0.99	1.0	0.37	0.071	0.020	0.048			11	0.19	75
Swine - Gestating sow-440 lb	2.5	2.3	2.4	0.84	0.19	0.055	0.12			25	0.41	90
Swine - Lactating sow ⁹ 423 lb					0.061	0.021	0.039			8.4	0.13	90
Swine - Boar-440 lb	0.84	0.75	0.60	0.29								

¹ Prior to any changes due to dilution water addition, drying, volatilization or other physical, chemical or biological processes.

² Non-bold table numbers indicate that predictive equations were not available from Sections 4 – 9 for estimating this characteristic. These numbers are average values taken from MWPS-18 Section 1, NRCS Agricultural Waste Management Field Handbook, and the previous version ASAE D384.1 or calculated based upon procedures used in footnote 3.

³ Total Solids (TS) is estimated for most animal groups by equations in Sections 4 – 9. For beef cattle, volatile solids is also based upon equations. For all other species, volatile solids are calculated from TS and literature values of the ratio of VS to TS. Similarly, BOD and COD values are calculated using VS and the literature values of the ratio of BOD and COD to VS. Literature values are taken from MWPS-18 Section 1, NRCS Agricultural Waste Management Field Handbook, and the previous version ASAE D384.1.

⁴ BOD – Biochemical oxygen demand, 5-day, COD – Chemical oxygen demand.

⁵ Total manure is calculated from Total Solids and manure moisture content.

⁶ As-excreted manure moisture contents range from 75 to 90 percent. At these moisture levels as-excreted manure has a density nearly equal to that of water, and a specific gravity of 1.0 was assumed in calculation of manure volume.

⁷ Solids estimates (TS, VS, COD, and BOD) do not include solids in urine.

⁸ These values apply to horses 18 months of age or older that are not pregnant or lactating. The representative number applies to 500 kg horses and the range represents horses from 400 to 600 kg. "Sedentary" would apply to horses not receiving any imposed exercise. Dietary inputs are based on minimum nutrient requirements specified in "Nutrient Requirements of Horses" (NRC, 1989). "Intense" represents horses used for competitive activities such as racing. Dietary inputs are based on a survey of race horse feeding practices (Gallagher et al, 1992) and typical feed compositions (forage = 50% alfalfa, 50% timothy; concentrate = 30% oats, 70% mixed performance horse concentrate).

⁹ Bold values include contribution of nursing pigs.

¹⁰ Beef cows values are representative of animals during non-lactating period and first six months of gestation.

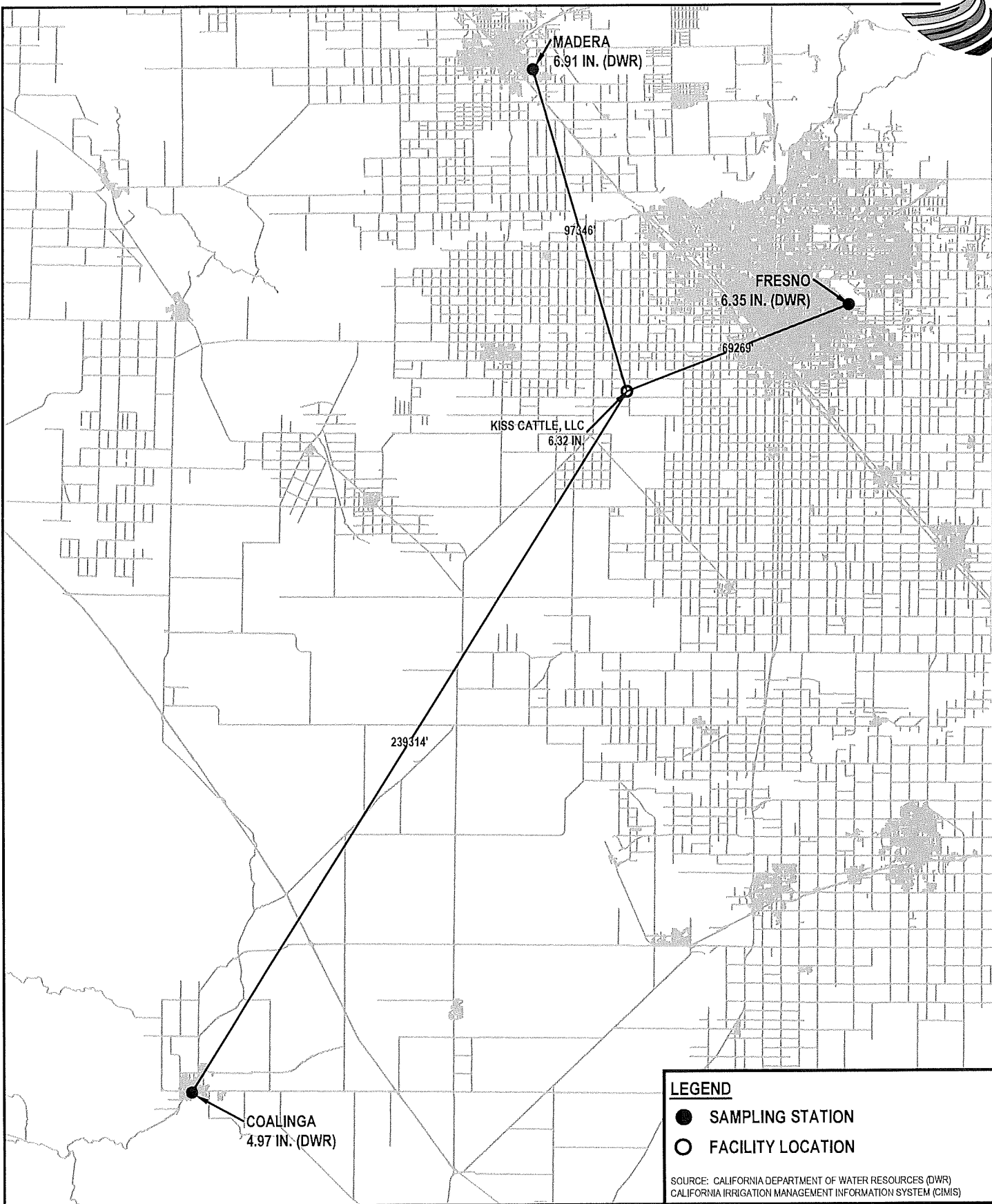
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APPENDIX D

Normal Precipitation Data






LEGEND

- SAMPLING STATION
- FACILITY LOCATION

SOURCE: CALIFORNIA DEPARTMENT OF WATER RESOURCES (DWR)
CALIFORNIA IRRIGATION MANAGEMENT INFORMATION SYSTEM (CIMIS)



324 S. SANTA FE, STE. A
VISALIA, CA 93292
(559) 802-3052

DWR COLLECTION LOCATIONS
KISS CATTLE, LLC
FRESNO COUNTY, CA



JOB # 19070
APPENDIX D
11/7/2019
1"= 7 MILES

KISS CATTLE, LLC

Appendix D- Normal Precipitation Analysis Summary

Source: Department of Water Resources

<http://cdec.water.ca.gov/selectQuery.html>

Source: CIMIS

<http://www.cimis.water.ca.gov/cimis/frontMonthlyReport.do>

Average Precipitation at 3 Nearest Precipitation Recording Station (Inches)

	Coalinga	Madera	Fresno
November	0.67	1.27	0.97
December	1.17	1.78	1.61
January	1.63	2.01	1.98
February	1.50	1.85	1.80
March	1.14	1.73	1.70

Average Rainfall

Enter Latitude & Longitude:

Latitude: 36°11'33.32"N

Longitude: 119°36'19.67"N

Enter State Plane Coordinates:

x: 1,945,544 meters
6,383,019 ft
y: 595,516 meters
1,953,793 ft

(State Plane Coordinates and Station proximity detailed in CAD Exhibit, See Attachment)

Normal Precipitation Summary

(Average based on proximity to DWR collection station)

120 Day Precipitation (November - February)

November: 1.11 inches
December: 1.59 inches
January: 1.88 inches
February: 1.74 inches

Retention Period Total Precipitation

November - February: 6.32 in.

Normal Precipitation Averages

Source: Department of Water Resources
<http://dwr.water.ca.gov/elect/Query.html>
 Source: NOAA Geodetic to SPC
http://www.ngs.noaa.gov/zcdd/bn/ngc_gatoc.pl

DWR-Coalinga (CLN) 1940 - 2019			DWR-Madera (MDR) 1963 - 2019			DWR-Fresno (FRO) 1905 - 2019			
Latitude: 36.1360°N 36° 8' - 9.6"		State Plane Coordinates:		Latitude: 36.9500°N 36° 19' - 58.8"		State Plane Coordinates:		Latitude: 36.7610°N 36° 46' 1.2"	
Longitude: 120.3610°W 120° 21' - 39.0"		x: 1,877,505.172 meters		Longitude: 120.0330°W 119° 18' 0"		x: 1,973,066.357 meters		Longitude: 119.7170°W 119° 43' 1.1694"	
Zone: 404		y: 6,159,793.877 ft		Zone: 4		y: 6,473,314.826 ft		Zone: 4	
		y: 589,933.250 meters				y: 610,906.351 meters		y: 6,351,868.770 ft	
		1,835,476.642 ft				2,004,492.779 ft		2,165,127.228 ft	
Date / Time	RAIN INCHES		Date / Time	RAIN INCHES		Date / Time	RAIN INCHES		
		Coalinga (CLN)			Madera (MDR)			Fresno (FRO)	
		November: 0.6684 in.	Sep-63	0	November: 1.2075 in.	Jan-05	0.93	November: 0.9361 in.	
		December: 1.1881 in.	Oct-63	0	December: 1.7767 in.	Feb-05	0.9	December: 1.8059 in.	
		January: 1.6277 in.	Nov-63	0	January: 2.0140 in.	Mar-05	2.04	January: 1.9319 in.	
		February: 1.5035 in.	Dec-63	0	February: 1.8535 in.	Apr-05	0.45	February: 1.7970 in.	
		March: 1.1405 in.	Jan-64	0	March: 1.7284 in.	May-05	1.58	March: 1.7037 in.	
		April: 0.5391 in.	Feb-64	0	April: 0.9748 in.	Jun-05	0	April: 0.9553 in.	
		November - February Total	Mar-64	0	November - February Total	Jul-05	0	November - February Total	
		4.8976 in.	Apr-64	0	6.9116 in.	Aug-05	0	8.3547 in.	
Oct-66	0		May-64	0		Sep-05	0		
Nov-66	0		Jun-64	0		Oct-05	0		
Dec-66	3.89		Jul-64	0		Nov-05	0.98		
Jan-67	1.79		Aug-64	0.11		Dec-05	0.41		
Feb-67	4.96		Sep-64	0		Jan-06	2.05		
Mar-67	2.83		Oct-64	1.09		Feb-06	2.2		
Apr-67	1.09		Nov-64	2.76		Mar-06	4.17		
May-67	0		Dec-64	2.76		Apr-06	0.92		
Jun-67	0		Jan-65	1.05		May-06	2.88		
Jul-67	0		Feb-65	0.40		Jun-06	0		
Aug-67	0		Mar-65	0.48		Jul-06	0		
Sep-67	0		Apr-65	1.82		Aug-06	0		
Oct-67	0.58		May-65	0		Sep-06	0		
Nov-67	0.5		Jun-65	0		Oct-06	0		
Dec-67	2.51		Jul-65	0		Nov-06	0.73		
Jan-68	1.39		Aug-65	0.02		Dec-06	3.16		
Feb-68	0.41		Sep-65	0		Jan-07	3.34		
Mar-68	0.65		Oct-65	0.21		Feb-07	0.84		
Apr-68	1.78		Nov-65	3.83		Mar-07	1.74		
May-68	0.13		Dec-65	1.60		Apr-07	0.69		
Jun-68	0		Jan-66	0.83		May-07	0		
Jul-68	0		Feb-66	0.84		Jun-07	0.24		
Aug-68	0		Mar-66	0.05		Jul-07	0		
Sep-68	0		Apr-66	0.19		Aug-07	0		
Oct-68	0.31		May-66	0.23		Sep-07	0		
Nov-68	0.2		Jun-66	0.03		Oct-07	1.08		
Dec-68	0.53		Jul-66	0		Nov-07	0		
Jan-69	2.83		Aug-66	0		Dec-07	0.97		
Feb-69	0.72		Sep-66	0.01		Jan-08	1.78		
Mar-69	2.14		Oct-66	0		Feb-08	1.75		
Apr-69	0.45		Nov-66	1.41		Mar-08	0.71		
May-69	0		Dec-66	3.23		Apr-08	0.8		
Jun-69	0		Jan-67	2.46		May-08	0.83		
Jul-69	0		Feb-67	0.21		Jun-08	0		
Aug-69	0		Mar-67	1.60		Jul-08	0.01		
Sep-69	0		Apr-67	4.22		Aug-08	0		
Oct-69	0.31		May-67	0.22		Sep-08	0.15		
Nov-69	0.15		Jun-67	0.20		Oct-08	0.92		
Dec-69	1.88		Jul-67	0		Nov-08	0.66		
Jan-70	0.39		Aug-67	0		Dec-08	0.57		
Feb-70	3.13		Sep-67	0.01		Jan-09	4.44		
Mar-70	0.15		Oct-67	0		Feb-09	2.76		
Apr-70	0.25		Nov-67	1.21		Mar-09	1.18		
May-70	0.36		Dec-67	1.62		Apr-09	0		
Jun-70	0.43		Jan-68	0.93		May-09	0		
Jul-70	0		Feb-68	1.43		Jun-09	0.08		
Aug-70	0		Mar-68	1.75		Jul-09	0		
Sep-70	0		Apr-68	1.07		Aug-09	0		
Oct-70	0.18		May-68	0.21		Sep-09	0		
Nov-70	0.29		Jun-68	0		Oct-09	0.72		
Dec-70	0.31		Jul-68	0		Nov-09	2.79		
Jan-71	0.48		Aug-68	0		Dec-09	4.5		
Feb-71	1.7		Sep-68	0		Jan-10	1.72		
Mar-71	1.16		Oct-68	1.25		Feb-10	0.21		
Apr-71	0.69		Nov-68	2.31		Mar-10	1.28		
May-71	0.85		Dec-68	2.69		Apr-10	0.27		
Jun-71	0.01		Jan-69	5.57		May-10	0		
Jul-71	0		Feb-69	4.06		Jun-10	0		
Aug-71	0.07		Mar-69	1.47		Jul-10	0		
Sep-71	0		Apr-69	1.59		Aug-10	0		
Oct-71	0.72		May-69	0.08		Sep-10	1		
Nov-71	0.4		Jun-69	0		Oct-10	0.45		
Dec-71	1.42		Jul-69	0.03		Nov-10	0.24		
Jan-72	0.27		Aug-69	0		Dec-10	0.21		
Feb-72	0.95		Sep-69	0.17		Jan-11	4.23		
Mar-72	1.39		Oct-69	0.47		Feb-11	1.14		
Apr-72	0.01		Nov-69	2.20		Mar-11	3.3		
May-72	0.17		Dec-69	1.33		Apr-11	1.03		
Jun-72	0		Jan-70	3.51		May-11	0.22		
Jul-72	0.63		Feb-70	0.78		Jun-11	0		
Aug-72	0		Mar-70	1.86		Jul-11	0		
Sep-72	0		Apr-70	0.21		Aug-11	0		
Oct-72	0.27		May-70	0		Sep-11	0.01		
Nov-72	1.33		Jun-70	0.14		Oct-11	0.89		
Dec-72	1.3		Jul-70	0		Nov-11	0.17		
Jan-73	0.74		Aug-70	0		Dec-11	1.06		
Feb-73	0.41		Sep-70	0		Jan-12	0.72		
Mar-73	0.52		Oct-70	0.09		Feb-12	0		
			Nov-70	1.95		Mar-12	3.02		

NOVEMBER

Calculations of a point on a Plane

Equation for a Plane

$$Ax + By + Cz + D = 0$$

Point 1	Coalinga (Sta.)
x1	6159793.871
y1	1935476.542
z1(Rain)	0.66835443

Point 2	Madera (Sta.)
x2	6473314.82
y2	2004482.779
z2(Rain)	1.2675

Point 3	Fresno (Sta.)
x3	6351668.77
y3	2163127.228
z3(Rain)	0.968070175

$$A = \begin{vmatrix} 1 & 1935476.542 & 0.6683544 \\ 1 & 2004482.779 & 1.2675 \\ 1 & 2163127.228 & 0.9680702 \end{vmatrix}$$

$$A = -116713.644$$

$$B = \begin{vmatrix} 6159793.871 & 1 & 0.6683544 \\ 6473314.82 & 1 & 1.2675 \\ 6351668.77 & 1 & 0.9680702 \end{vmatrix}$$

$$B = 20001.50000$$

$$C = \begin{vmatrix} 6159793.871 & 1935476.542 & 1 \\ 6473314.82 & 2004482.779 & 1 \\ 6351668.77 & 2163127.228 & 1 \end{vmatrix}$$

$$C = 581309603.4$$

$$-D = \begin{vmatrix} 6159793.871 & 1935476.542 & 0.6683544 \\ 6473314.82 & 2004482.779 & 1.2675 \\ 6351668.77 & 2163127.228 & 0.9680702 \end{vmatrix}$$

$$D = 6.33296E+11$$

$$X = 6383019.108$$

$$Y = 1953792.602$$

$$Z = 1.11 \text{ Value of rainfall data on site}$$

DECEMBER

Calculations of a point on a Plane

Equation for a Plane

$$Ax + By + Cz + D = 0$$

Point 1	Coalinga (Sta.)
x1	6159793.871
y1	1935476.542
z1(Rain)	1.168076923

Point 2	Madera (Sta.)
x2	6473314.82
y2	2004482.779
z2(Rain)	1.776666667

Point 3	Fresno (Sta.)
x3	6351668.77
y3	2163127.228
z3(Rain)	1.606929825

$$A = \begin{vmatrix} 1 & 1935476.54 & 1.1680769 \\ 1 & 2004482.78 & 1.7766667 \\ 1 & 2163127.23 & 1.6069298 \end{vmatrix}$$

$$A = -10825229862$$

$$B = \begin{vmatrix} 6159793.871 & 1 & 1.1680769 \\ 6473314.82 & 1 & 1.7766667 \\ 6351668.77 & 1 & 1.6069298 \end{vmatrix}$$

$$B = -2081848262$$

$$C = \begin{vmatrix} 6159793.871 & 1935476.54 & 1 \\ 6473314.82 & 2004482.78 & 1 \\ 6351668.77 & 2163127.23 & 1 \end{vmatrix}$$

$$C = 5073209147$$

$$-D = \begin{vmatrix} 6159793.871 & 1935476.54 & 1.1680769 \\ 6473314.82 & 2004482.78 & 1.7766667 \\ 6351668.77 & 2163127.23 & 1.6069298 \end{vmatrix}$$

$$D = 6.3020E+11$$

$$X = 6383019.108$$

$$Y = 1953792.602$$

$$Z = 1.59 \text{ Value of rainfall data on site}$$

JANUARY

Calculations of a point on a Plane

Equation for a Plane

$$Ax + By + Cz + D = 0$$

Point 1	Coalinga (Sta.)
x1	6159793.871
y1	1935476.542
z1(Rain)	1.627662338

Point 2	Madera (Sta.)
x2	6473314.82
y2	2004482.779
z2(Rain)	2.013962264

Point 3	Fresno (Sta.)
x3	6351668.77
y3	2163127.228
z3(Rain)	1.981858407

$$A = \begin{vmatrix} 1 & 1935476.542 & 1.6276623 \\ 1 & 2004482.779 & 2.0139623 \\ 1 & 2163127.228 & 1.9818584 \end{vmatrix}$$

$$A = -61140.72333$$

$$B = \begin{vmatrix} 6159793.871 & 1 & 1.6276623 \\ 6473314.82 & 1 & 2.0139623 \\ 6351668.77 & 1 & 1.9818584 \end{vmatrix}$$

$$B = -30826.62841$$

$$C = \begin{vmatrix} 6159793.871 & 1935476.542 & 1 \\ 6473314.82 & 2004482.779 & 1 \\ 6351668.77 & 2163127.228 & 1 \end{vmatrix}$$

$$C = 3811280414.7$$

$$-D = \begin{vmatrix} 6159793.871 & 1935476.542 & 1.6276623 \\ 6473314.82 & 2004482.779 & 2.0139623 \\ 6351668.77 & 2163127.228 & 1.9818584 \end{vmatrix}$$

$$D = -1.67398E+11$$

$$X = 6383019.108$$

$$Y = 1953792.602$$

$$Z = 1.88 \text{ Value of rainfall data on site}$$

FEBRUARY

Calculations of a point on a Plane

Equation for a Plane

$$Ax + By + Cz + D = 0$$

Point 1	Coalinga (Sta.)
x1	6159793.871
y1	1935476.542
z1(Rain)	1.503461538

Point 2	Madera (Sta.)
x2	6473314.82
y2	2004482.779
z2(Rain)	1.853518519

Point 3	Fresno (Sta.)
x3	6351668.77
y3	2163127.228
z3(Rain)	1.797876106

$$A = \begin{vmatrix} 1 & 1935476.54 & 1.5034615 \\ 1 & 2004482.78 & 1.8535185 \\ 1 & 2163127.23 & 1.7978761 \end{vmatrix}$$

$$A = -50934.77014$$

$$B = \begin{vmatrix} 6159793.871 & 1 & 1.5034615 \\ 6473314.82 & 1 & 1.8535185 \\ 6351668.77 & 1 & 1.7978761 \end{vmatrix}$$

$$B = -25737.30898$$

$$C = \begin{vmatrix} 6159793.871 & 1935476.54 & 1 \\ 6473314.82 & 2004482.78 & 1 \\ 6351668.77 & 2163127.23 & 1 \end{vmatrix}$$

$$C = 681326947.17$$

$$-D = \begin{vmatrix} 6159793.871 & 1935476.54 & 1.5034615 \\ 6473314.82 & 2004482.78 & 1.8535185 \\ 6351668.77 & 2163127.23 & 1.7978761 \end{vmatrix}$$

$$D = -2.302572111$$

$$X = 6383019.108$$

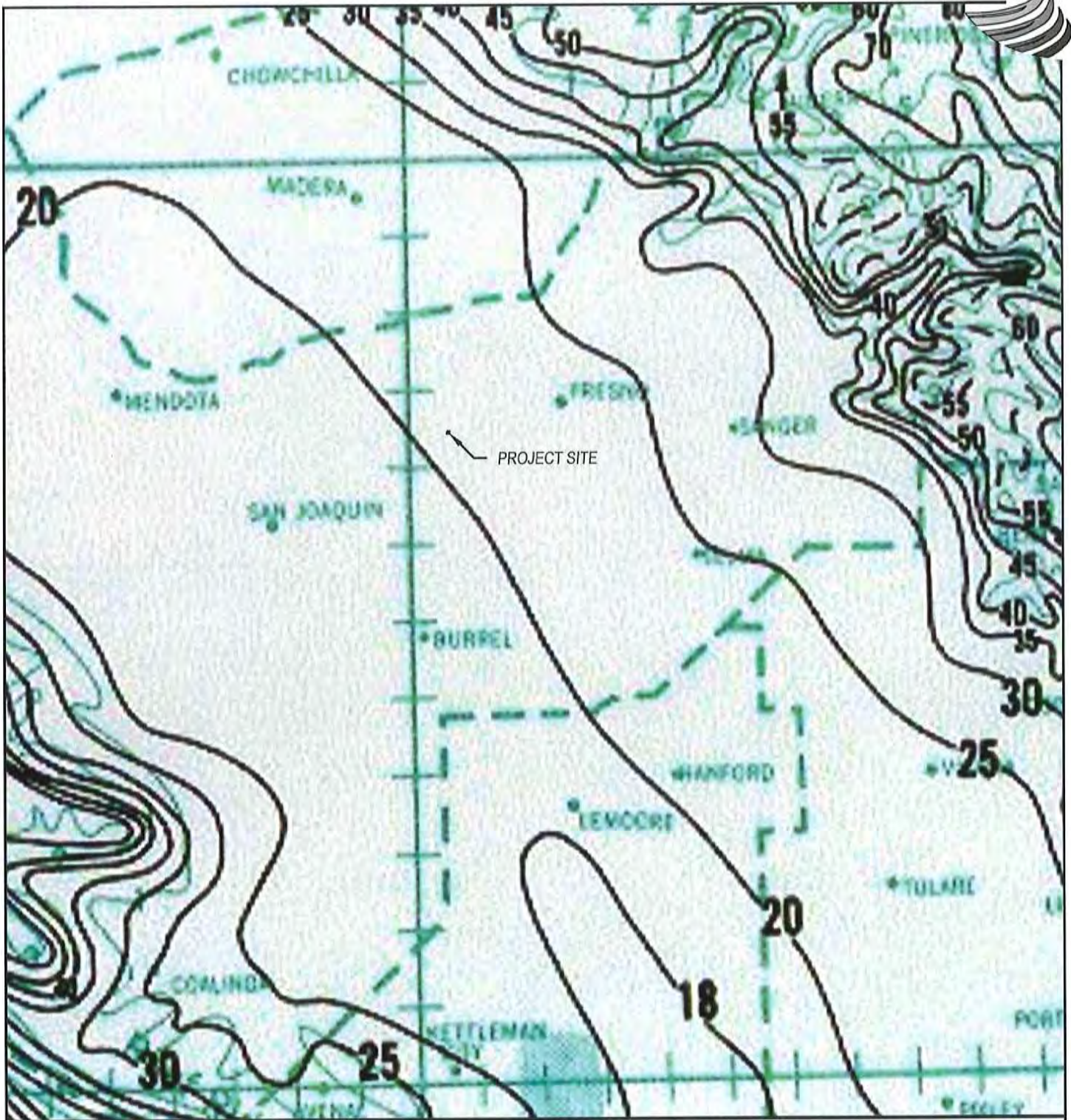
$$Y = 1953792.602$$

$$Z = 1.74 \text{ Value of rainfall data on site}$$

APPENDIX E

25 Year, 24 Hour Storm Water Data





NOAA ATLAS 2, VOLUME XI

PREPARED BY U.S. DEPARTMENT OF COMMERCE
 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
 NATIONAL WEATHER SERVICE, OFFICE OF HYDROLOGY

PREPARED FOR U.S. DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE, ENGINEERING DIVISION

ISOPLUVIALS OF 25-YR 24-HR PRECIPITATION FOR
 SOUTHERN HALF OF CALIFORNIA TENTHS OF AN INCH



324 S. SANTA FE, STE. A
 VISALIA, CA 93292
 (559) 802-3052

ISOPLUVIAL - 25 YEAR, 24 HOUR
 KISS CATTLE, LLC
 FRESNO COUNTY, CA



JOB NO. 19070
 APPENDIX E
 11/7/2019
 1" = 10 MILES

APPENDIX F

Evaporation Data



AVERAGE MONTHLY EVAPORATION FROM CLASS 'A' PAN IN IRRIGATED PASTURE ENVIRONMENTS NEAR BAKERSFIELD, CALIFORNIA FROM 1968-2010 /1														
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAR - OCT TOTAL	JAN - DEC TOTAL
****EVAPORATION IN INCHES****														
AVERAGE	1.44	2.25	4.13	5.95	8.35	9.58	9.94	8.85	6.62	4.47	2.24	1.35	57.89	65.17
STD DEV	0.34	0.45	0.71	0.86	0.82	0.79	0.82	0.71	0.64	0.43	0.36	0.36	0.72	0.61
STD ERROR	0.05	0.06	0.10	0.12	0.11	0.11	0.11	0.10	0.09	0.06	0.05	0.05	0.10	0.08

AVERAGE MONTHLY EVAPORATION FROM CLASS 'A' PAN IN IRRIGATED PASTURE ENVIRONMENTS AT CALIFORNIA STATE UNIVERSITY AT FRESNO FROM 1968-2010 /1														
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAR - OCT TOTAL	JAN - DEC TOTAL
****EVAPORATION IN INCHES****														
AVERAGE	1.26	2.08	3.94	6.03	8.75	10.43	11.02	9.67	6.99	4.42	2.25	1.21	61.26	68.07
STD DEV	0.28	0.41	0.77	0.86	1.03	0.92	0.73	0.68	0.57	0.49	0.40	0.30	0.76	0.62
STD ERROR	0.04	0.06	0.12	0.13	0.16	0.14	0.11	0.11	0.09	0.07	0.06	0.05	0.12	0.10

1/ Evaporation measurements are taken from evaporation pans located at standardized sites (irrigated pastures) with static water levels maintained in the pans by supply tanks. The sites are visited at least weekly to measure evaporation from a U.S. Weather Bureau Class 'A' Pan. Other agrometeorological equipment, (i.e. rain gauge, anemometer, ambient air thermometers) is installed at onsite DWR agroclimatic stations, and this data is collected weekly along with pan evaporation. The evaporation may be adjusted during times of high wind or dry periods, which represent non-standard conditions.

APPENDIX G

Storm Drain Run-Off Coefficient Data



15.2.2 Rational Method Design

From an engineering viewpoint the design can be divided into two main aspects: runoff predictions and pipe sizing. The rational method, which can be traced back to the mid-nineteenth century, is still probably the most popular method used for the design of storm sewers (Yen and Akan, 1999). Although criticisms have been raised of its adequacy, and several other more advanced methods have been proposed, the rational method, because of its simplicity, is still in continued use for sewer design when high accuracy of runoff rate is not essential.

Using the rational method, the storm runoff peak is estimated by the rational formula $Q=KCI/A$ (15.2.1) where the peak runoff rate Q is in ft^3/s (m^3/s), K is 1.0 in U.S. customary units (0.28 for SI units), C is the runoff coefficient (Table 15.2.3), I is the average rainfall intensity in in/hr (mm/hr) from intensity-duration frequency relationships for a specific return period and duration t_c in min, and A is the area of the tributary drainage area in acres (km^2). The duration is taken as the time of the concentration t_c of the drainage area.

Runoff Coefficients for Use in the Rational Method

Character of Surface	Return Period (years)						
	2	5	10	25	50	100	500
Developed							
Asphaltic	0.73	0.77	0.81	0.86	0.90	0.95	1.00
Concrete/roof	0.75	0.80	0.83	0.88	0.92	0.97	1.00
Grass Areas (lawns, parks, etc.)							
<i>Poor condition</i> (grass cover less than 50% of the area)							
Flat, 0-2%	0.32	0.34	0.37	0.40	0.44	0.47	0.58
Average, 2-7%	0.37	0.40	0.43	0.46	0.49	0.53	0.61
Steep, over 7%	0.40	0.43	0.45	0.49	0.52	0.55	0.62
<i>Fair condition</i> (grass cover 50% to 75% of the area)							
Flat, 0-2%	0.25	0.28	0.30	0.34	0.37	0.41	0.53
Average, 2-7%	0.33	0.36	0.38	0.42	0.45	0.49	0.58
Steep, over 7%	0.37	0.40	0.42	0.46	0.49	0.53	0.60
<i>Good condition</i> (grass cover larger than 75% of the area)							
Flat, 0-2%	0.20	0.23	0.25	0.29	0.32	0.36	0.49
Average, 2-7%	0.29	0.32	0.35	0.39	0.42	0.46	0.56
Steep, over 7%	0.34	0.37	0.40	0.44	0.47	0.51	0.58
Undeveloped							
Cultivated land							
Flat, 0-2%	0.31	0.34	0.36	0.40	0.43	0.47	0.57
Average, 2-7%	0.35	0.38	0.41	0.44	0.48	0.51	0.60
Steep, over 7%	0.39	0.42	0.44	0.48	0.51	0.54	0.61
Pasture/range							
Flat, 0-2%	0.25	0.28	0.30	0.34	0.37	0.41	0.53
Average, 2-7%	0.33	0.36	0.38	0.42	0.45	0.49	0.58
Steep, over 7%	0.37	0.40	0.42	0.46	0.49	0.53	0.60
Forest/woodlands							
Flat, 0-2%	0.20	0.25	0.25	0.31	0.35	0.39	0.48
Average, 2-7%	0.31	0.34	0.26	0.40	0.43	0.47	0.56
Steep, over 7%	0.35	0.39	0.41	0.45	0.48	0.52	0.58

Note: The values in the table are the standards used by the City of Austin, Texas.

Source: Chow, Maidment, and Mays (1988).

Nutrient Management Plan

KISS CATTLE, LLC
2585 S. CHATEAU FRESNO AVENUE
FRESNO, CA 93706

Prepared by:



Innovative Ag Services, LLC
1201 Delta View Road, Suite 5 Hanford, CA 93230
Office (559) 587-2800 Fax (559) 587-2801

NUTRIENT MANAGEMENT PLAN

A Nutrient Management Plan (NMP) is required for all existing milk cow dairies subject to Waste Discharge Requirements General Order No. R5-2013-0122. This NMP has been prepared in accordance with the General Order requirements as outlined in Attachment C, Sections I. – VII. and Technical Standards for Nutrient Management Sections I. – X. The purpose of the NMP is to budget and manage the nutrients applied to the land application area(s) considering all sources of nutrients, crop requirements, soil types, climate, and local conditions to prevent adverse impacts to surface water and groundwater quality. This NMP takes the site-specific conditions into consideration in identifying steps that will minimize nutrient movement through surface runoff or leaching past the root zone.

KISS CATTLE, LLC

CERTIFICATION

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

OPERATOR:



SIGNATURE OF OPERATOR

Gerrit Roeloffs

PRINT NAME

11-14-19

DATE

OWNER:

SIGNATURE OF OWNER

PRINT NAME

DATE

CERTIFIED NUTRIENT MANAGEMENT PLAN

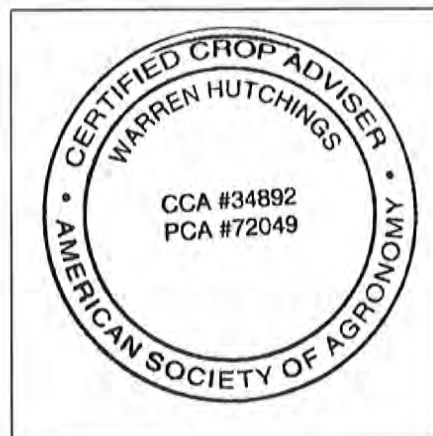
SPECIALIST:



SIGNATURE

11-13-19

DATE



DAIRY FACILITY INFORMATION

A. Name of the Facility & County Location

Facility Name: KISS CATTLE, LLC
County: FRESNO COUNTY

B. Facility Location

Address: 2585 S. CHATEAU FRESNO AVENUE
FRESNO, CA 93706

C. Responsible Party:

Operator: GERRIT ROELOFFS
9256 S. VALENTINE AVENUE
FRESNO, CA 93706
CONTACT: GERRIT ROELOFFS
CONTACT PHONE: (559) 280-8053

Owner: MICHAEL BOTASSO
3221 S. CHATEAU FRESNO AVENUE
FRESNO, CA 93706
(559) 237-1569



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- ATTACHMENT D. WASTE APPLICATION SUMMARY
- ATTACHMENT E. FIELD-BY-FIELD NUTRIENT BUDGET
- ATTACHMENT F. MANURE MANIFEST



I. LAND APPLICATION AREA INFORMATION

A. Land Application Area Map (Attachment A)

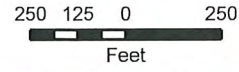
This map identifies of all land application areas (under the control of the discharger, whether it is owned, rented or leased, to which manure or process wastewater from the production area is or may be applied for nutrient recycling) on a single published base map (topographical map or aerial photo) at an appropriate scale which includes:

- i. A field identification system (Assessor's Parcel Number; land application area by name or number; total acreage of each land application area; indication if each land application area is owned, rented or leased by the Discharger; indication what type of waste is applied; drainage flow direction in each field, nearby surface waters, and storm water discharge points; tailwater and storm water drainage controls; subsurface (tile) drainage systems; irrigation supply wells and groundwater monitoring wells; sampling locations for discharges of storm water and tailwater to surface water from the field; and
- ii. Process wastewater conveyance structures; discharge points and discharge mixing points with irrigation water supplies; pumping facilities; flow meter locations; drainage ditches and canals, culverts, drainage controls (berms, levees, etc.), and drainage easements.



Kiss Cattle, LLC

Land Area Map



Legend

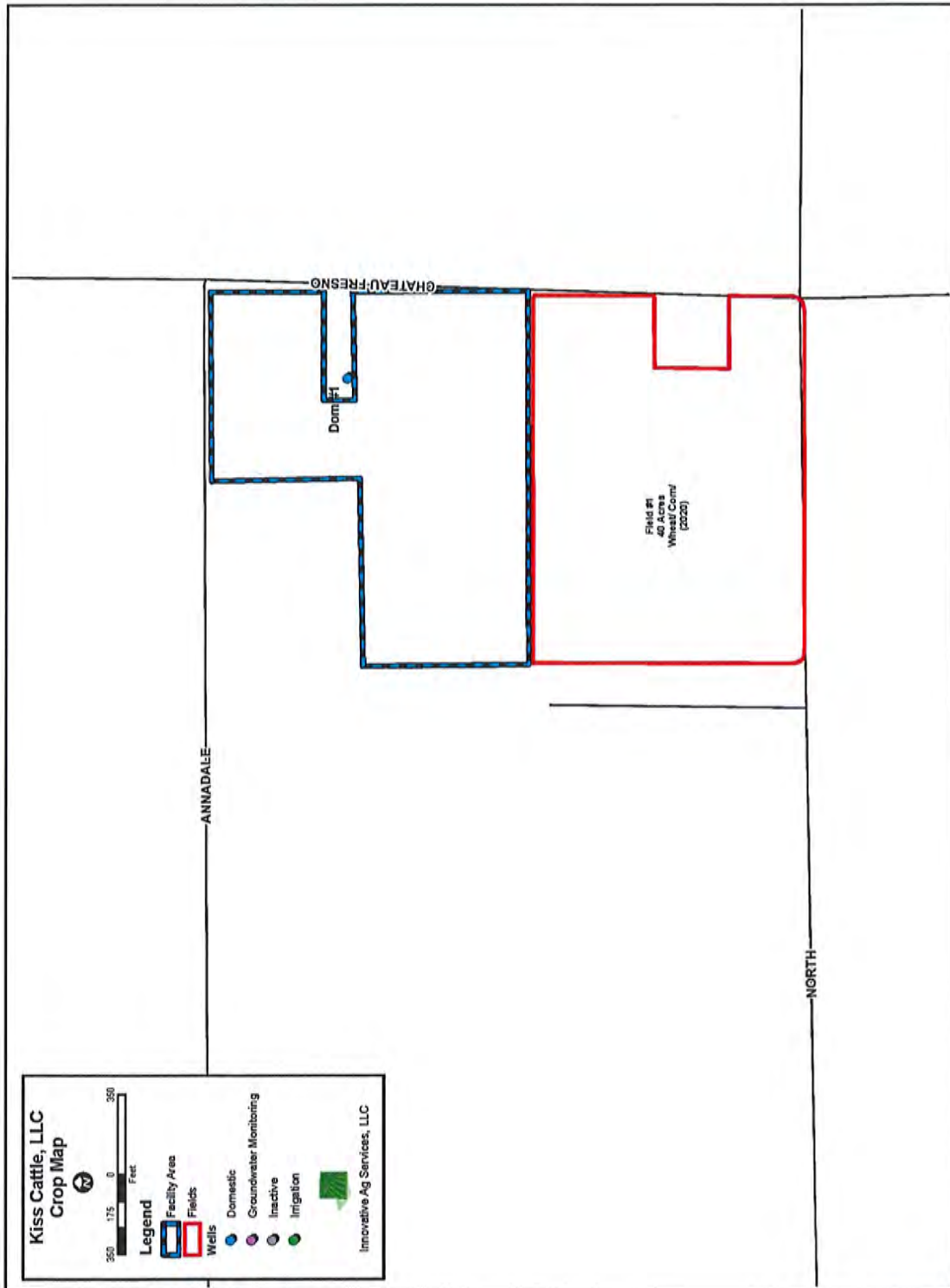
- Fields
- Contracted Field(s) / Acres
- Facility Area
- Wastewater Agreement
- Vulnerable Area
- APN Parcels
- Flow Meter
- Mixing Point
- Pumping Station
- Discharge Point
- Tailwater Point
- Tailwater Line
- Surface Water
- Transfer Canal
- Wastewater Transfer Canal
- Transfer Pipe
- Transfer Pipe with Discharge Points
- WW Transfer Pipe
- WW Transfer Pipe with Discharge Points
- Wells (Controlled)**
 - Domestic
 - Groundwater Monitoring
 - Inactive
 - Irrigation
- Wells (Not Controlled)**
 - Domestic
 - Irrigation
- Drainage Flow Direction



Innovative Ag Services, LLC

B. Crop Map

This map identifies each field's common name, total acreage, crops grown, and crop rotation.



C. Wastewater Agreements

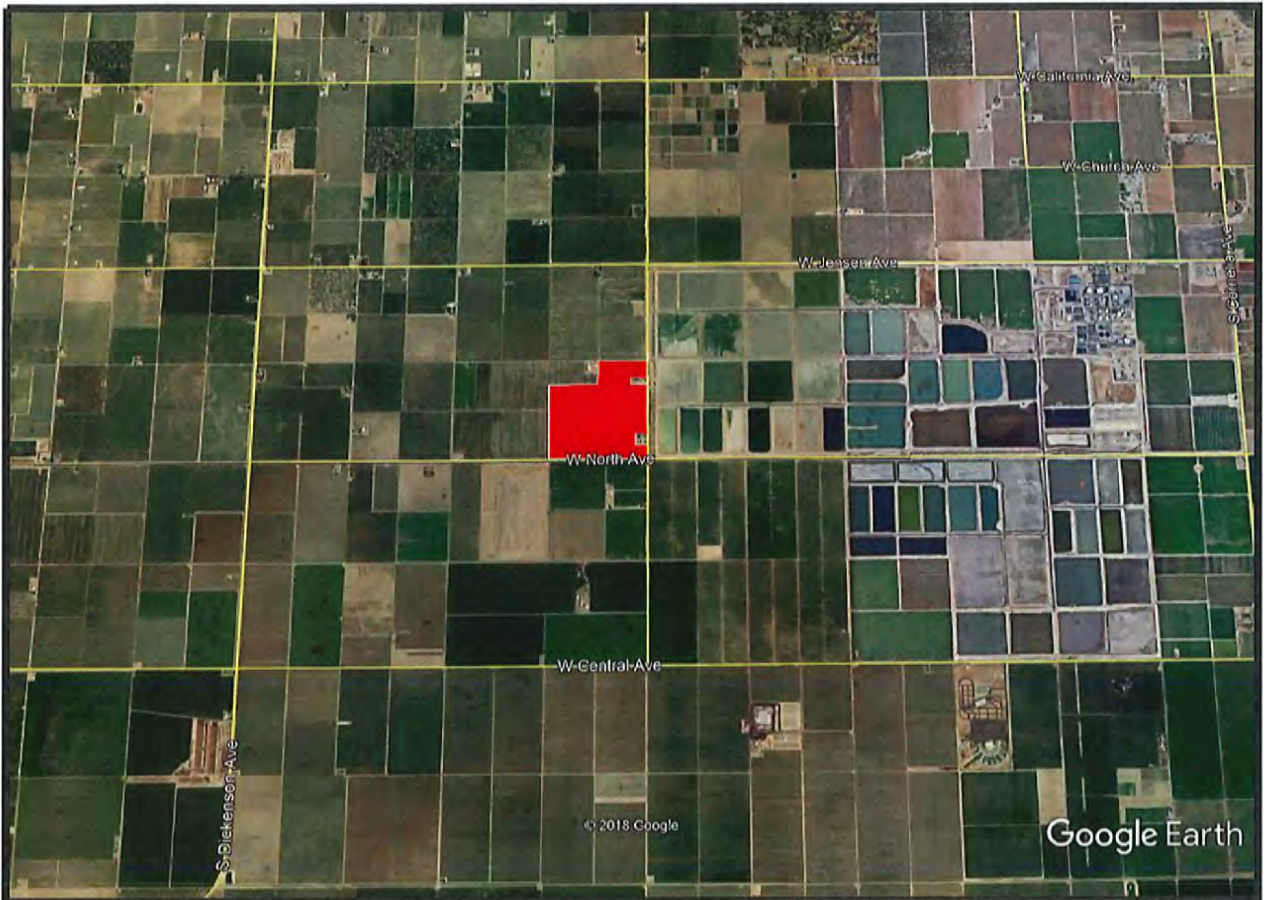
Copies of written agreements with third parties that receive process wastewater for their own use from the discharger's dairy are attached, if applicable.

This facility does NOT transfer process wastewater to any third-party sources.





D. Vicinity Map

Identify each field under the control of the discharger and within five miles of the dairy where neither process wastewater nor manure are applied. Each field shall be identified on a single published base map at an appropriate scale by the following: Assessors' Parcel Number, total acreage, and information regarding who owns or leases the field



MAP KEY

-  - Dairy Facility & Land Application Area
-  - Additional Land under the control of the Discharger, within five miles of the dairy, which does not receive process wastewater or manure.



II. SAMPLING AND ANALYSIS PLAN

A. Approved Sampling Procedures for Nutrients and Groundwater Monitoring

Soil, manure, process wastewater, irrigation water, and plant tissue shall be monitored, sampled, and analyzed as required in Monitoring and Reporting Program R5-2013-0122, and any future revisions thereto. The results of these analyses shall be used during the development and implementation of the NMP.



B. Process Wastewater

Process Wastewater shall be sampled and analyzed as follows:

Each application:

Record the volume (gallons or acre-inches) and date of process wastewater application to each land application area.

Quarterly during one application event:

Field measurement of electrical conductivity.

Laboratory analyses for nitrate-nitrogen (only when retention pond is aerated), un-ionized ammonia-nitrogen, total Kjeldahl nitrogen, total phosphorus, total potassium, and total dissolved solids.

Once every two years (biennially):

Laboratory analyses for general minerals (calcium, magnesium, sodium, bicarbonate, carbonate, sulfate, and chloride).

Annually

Laboratory analyses of liquid process wastewater, prior to blending with irrigation water, for pH, total dissolved solids, electrical conductivity, nitrate-nitrogen, ammonium-nitrogen, total Kjeldahl nitrogen, total phosphorus, and total potassium.

- i. Process wastewater shall be collected as follows:
 - a. A representative sample must be collected during an application event. Containers that are reused shall be cleaned between sampling events.
 - b. The samples shall be collected at a point that is prior to any dilution or blending with irrigation water and shall be representative of the process wastewater applied to the land application area.
 - c. A minimum of 1 liter (or an amount as specified by the laboratory), must be collected in a clean container, kept cool, and be delivered to the laboratory within 24 hours.
- ii. Laboratory analysis of process wastewater shall be conducted by a laboratory that is either accredited for such analyses by the California Department of Health Services or that is participating in the manure analysis proficiency (MAP) program. These laboratory analyses shall be conducted in accordance with the Title 40 Code of Federal Regulations Part 136 (Guidelines Establishing Test Procedures for the Analysis of Pollutants), MAP program-approved methods or other test methods approved by the Executive Officer.
- iii. If a management change is made on the facility that affects processed wastewater, a sample shall be taken to test for a change in the processed wastewater. Examples: Freshwater is added to the lagoon, Herd size/type modifications, New or Modified Solid Separating System.



C. Solid Manure

<p><i>Solid Manure shall be sampled and analyzed as follows:</i></p> <p><u>Once every two years (biennially):</u> Laboratory analyses for general minerals (calcium, magnesium, sodium, sulfur, chloride) and fixed solids (ash).</p> <p><u>Twice per year:</u> Laboratory analyses for total nitrogen, total phosphorus, total potassium, and percent moisture.</p> <p><u>Each application to each land application area:</u> Record the percent moisture and total weight (tons) applied.</p>
<p><u>Each offsite export of manure:</u> Record the percent moisture and total weight (tons) exported. Laboratory analyses for percent moisture.</p>
<p><u>Annually:</u> Record the total dry weight (tons) of manure applied annually to each land application area and the total dry weight (tons) of manure exported offsite.</p>

- i. Manure shall be collected as follows:
 - a. Equal-size samples of manure shall be collected from a minimum of three locations around the manure pile. These samples shall be collected from a depth of no less than one foot below the surface of the manure pile.
 - b. The three samples shall be combined and thoroughly mixed to make a single composite sample and delivered to a laboratory within 72 hours.
 - c. Sample containers that are reused shall be cleaned between sampling events.
- ii. Manure analyses shall be conducted by methods utilized by the Manure Analyses Proficiency (MAP) Testing Program or accepted by the University of California and laboratories participating in the MAP Testing Program or other programs whose tests are accepted by the University of California.
- iii. Samples shall be taken within 30 days of the application or export of the manure to ensure representation of the manure. Each type of solid manure shall be sampled twice a year if available for land application or export. Example: Solid Separator Manure, Mature Cow Corral Manure, Heifer Corral Manure, Calf Manure, Sludge, ...



D. Plant Tissue

Plant Tissue shall be sampled and analyzed as follows:

At harvest:

Record the percent moisture and total weight (tons) of harvested material removed from each land application area.

Laboratory analyses for total nitrogen, total phosphorus, total potassium (expressed on a dry weight basis), fixed solids (ash), and percent moisture.

The following test is only required if the Discharger wants to add fertilizer in excess of 1.4 times the nitrogen expected to be removed by the harvested portion of the crop (see Attachment C of Order No. R5-2013-0122 for details): Mid-season, laboratory analysis for total nitrogen, expressed on a dry weight basis if necessary to assess the need for additional nitrogen fertilizer during the growing season.

- i. Plant tissue shall be collected as follows:
 - a. Five to ten representative samples shall be combined and thoroughly mixed to make a single composite sample.
 - b. Samples shall be obtained from a minimum depth of one foot below the silage pile surface.
 - c. This single composite sample shall be placed into a minimum of one-quart size bag, kept cool, and be delivered to the laboratory within 72 hours.
 - d. At least 10 equal-size samples (for example, using a two or three-pound coffee can) of the harvested portion of the crop shall be collected from the storage area. These samples shall be combined and thoroughly mixed in a plastic bag, taking care not to allow drying.
 - e. Any mid-season plant tissue samples taken to evaluate the agronomic needs of the crop in-season shall be collected following University of California recommendations for the specific plant being tested.
- ii. Plant tissue analyses shall be conducted by: methods utilized by the North American Proficiency Testing (NAPT) Program or accepted by the University of California; and laboratories participating in the NAPT Program or other programs whose test are accepted by the University of California.
- iii. Samples must represent the land application management area. A land application management area is defined as a land application area that is managed as a single unit, in which all planting, nutrient applications, and harvest events occur as single events, and not over separate time periods. If nutrient applications, planting dates, or harvest dates are managed separately within a land application area, then the area must be sampled separately in accordance to the management differences.
- iv. Each type of plant tissue removed from the field must be sampled to represent each type of plant tissue remove that year. For example: For an 'Alfalfa' crop, each type of harvest must be sampled independently each year it is harvested, thus if Alfalfa Hay, Alfalfa Green Chop, Alfalfa Dry Chop, and/or Alfalfa/Oat Hay Blend is harvested – then each type must be sample to reflect the changes in nutrient extraction that they may present. Corn Grain and Corn Fodder or Wheat Grain and Wheat Straw will both need to be harvested if they are harvested independently to represent the differences they will create in nutrient extraction.



E. Soil

Soil shall be sampled and analyzed as follows:

Once every 5 years from each land application area (may be distributed over a 5-year period by sampling 20% of the land application areas annually):

Laboratory analyses for soluble phosphorus

The following soil tests are recommended but not required:

Spring pre-plant for each crop:

Laboratory analyses for:

0 to 1 foot: Nitrate-nitrogen and organic matter.

1 to 2 feet: Nitrate-nitrogen

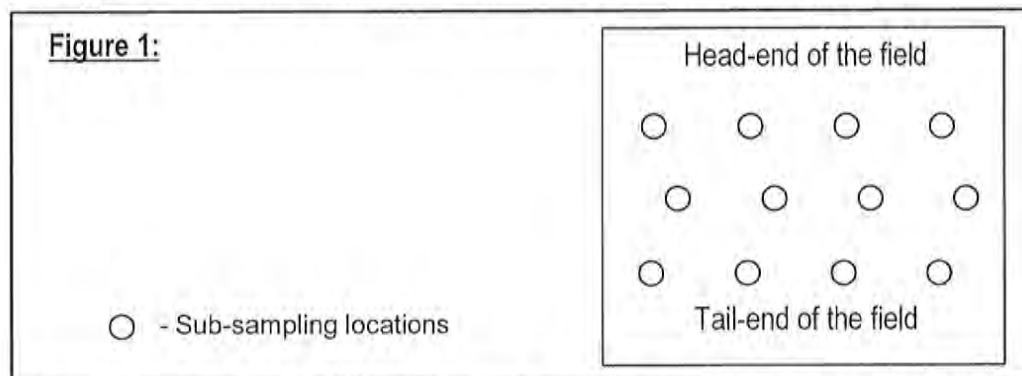
Fall pre-plant for each crop:

Laboratory analyses at depths below ground surface of:

0 to 1 foot: Electrical conductivity, nitrate-nitrogen, soluble phosphorus, potassium and organic matter.

1 to 2 feet: Nitrate-nitrogen

- i. Soil samples shall be collected as follows:
 - a. Dischargers with less than 400 acres shall collect a composite sample for every 40 acres of land application area. Dischargers with 400 or more acres shall collect a composite soil sample for every 80 acres.
 - b. In fields that are larger than the 40/80 acres soil sampling requirements, the field must be split perpendicular to the head-end of the field. This will still facilitate the proper collection of samples in relation to the head and tail ends of the field.
 - c. Each sample shall be composed of 12 sub-samples. Four from the head end of the field, four from the center of the field, and four from the tail end of the field (Figure 1).



- d. Soil samples shall be collected with soil probes or augers to a depth of 18" and composited as described below:
- ii. In fields where soil texture, crop yield, or other soil-related factors vary, at least 10 samples shall be collected from each different area and composites from each area shall be analyzed separately.
- iii. Sample locations in each land application area shall be recorded on a sketch for future sampling consistency.
- iv. Soil probes or augers shall be cleaned between sample depth intervals.
- v. Each composite sample shall be composited by doing the following:
 - a. Placing equal volumes of soil from each of 10 or more sample sites for each 40 or 80-acre composite area and for each sample depth, in a clean plastic bucket. Moist soils may be air dried until they can be mixed easily



- b. Thoroughly mixing the sample and placing at least one pint of the composite sample in a clean plastic container.
- vi. Soils shall be sampled and analyzed for:
 - a. Saturation Percentage (SP%), pH, Electrical Conductivity (EC), Calcium, Magnesium, Sodium, Potassium, Chloride, Exchangeable Sodium Percentage (ESP), Lime Presence, Boron, Nitrate-Nitrogen ($\text{NO}_3\text{-N}$), Phosphorus ($\text{PO}_4\text{-P}$), Soluble Potassium (K-AA), Zinc, Manganese, Iron, Copper and Sulfate (SO_4S).
- vii. Analyses of the soil shall be conducted by: methods utilized by the North American Proficiency Testing (NAPT) Program or accepted by the University of California; and laboratories participating in the NAPT Program or other programs whose test are accepted by the University of California. This shall include analysis for nitrate-nitrogen and ammonium-nitrogen utilizing the 2 M potassium chloride extract on soil.
- viii. Analyses of phosphorus in soil samples shall be performed using the method recommended by the University of California or the bicarbonate-P or Olsen-P test.
- ix. Soils shall be sampled from each land application area after the harvest of a crop and before nutrients are added for the next crop, and:
 - a. At least once every five (5) years.
 - b. Recommended annually when there is a change in the cropping pattern/rotations or field management techniques.
 - c. Fields/soils that have been in alfalfa production, or other legume crops, shall be sampled before the production of the next crop to determine any nitrogen fixing by the legume crop.



F. Irrigation Water

Irrigation Water¹ shall be sampled and analyzed as follows:

Each irrigation event for each land application area:

Record volume (gallons or acre-inches) ² and source (well or canal) of irrigation water applied and dates applied.

One irrigation event during each irrigation season during actual irrigation events:

For each irrigation water source (well and canal):

Electrical conductivity, total dissolved solids, and total nitrogen. ³

Data collected to satisfy the groundwater monitoring requirements (below) can be used to satisfy this requirement.

¹ The Discharger shall monitor irrigation water (from each water well source and canal) that is used on all land application areas.

² Initial volume measurements may be the total volume for all land application areas.

³ In lieu of sampling the irrigation water, the Discharger may provide equivalent data from the local irrigation district.

- i. Irrigation water shall be collected as follows:
 - a. Samples from irrigation wells shall be collected after the pump has run for a minimum of 30 minutes or after at least three well volumes have been purged from the well.
 - b. Irrigation districts may provide a water analysis of the surface water delivered that will meet the regulatory requirements. If not, then a representative sample must be collected.
 - c. Samples shall be submitted to a laboratory within 24 hours of sampling.
- ii. Laboratory analyses of irrigation water shall be conducted by a laboratory certified for such analyses by the California Department of Health Services. These laboratory analyses shall be conducted in accordance with the Title 40 Code of Federal Regulations Part 136 (Guidelines Established Test Procedures for the Analysis of Pollutants) or other test methods approved by the Executive Officer.



G. Site Specific Instructions

Waste water samples are to be taken from the lagoon near the pump intake.

Domestic wells – Dom Well #1 is to be sampled from the faucet nearest the well head.

Manure samples are taken randomly from the piles throughout the corrals.



III. NUTRIENT BUDGET

In accordance to the Waste Discharge Requirements as indicated by the General Order, Attachment C, Section III, page C-4, the discharger shall develop a nutrient budget for each land application area. The nutrient budget shall establish planned rates of nutrient application for each crop based on soil test results, manure and process wastewater analyses, irrigation water analyses, crop nutrient requirements and patterns, seasonal and climatic conditions, the use and timing of irrigation water, and the nutrient application restrictions.

The attached Nutrient Budget prepared by Innovative Ag Services, LLC analyzes both the supply and demand of the nutrients for land applications. By utilizing the American Society of Agricultural Engineers excretion factors, an estimated supply of nutrients can be made to determine the nutrient supply from a discharge facility. The supply of nutrients from other sources (atmospheric deposition, irrigation water, residual soils, commercial fertilizer, etc.) can also be estimated using historical records and the best available data. The demands for these nutrients are made using a field-by-field analysis.

The following section contains guidelines for the discharger and the Certified Nutrient Management Plan Specialist regarding general nutrient production and balance analysis, field-by-field nutrient budgeting, general salt production and loading analysis, as well as creating a nutrient budget summary and storage period summary.



A. General Nutrient Production and Balance Analysis (Attachment B)

i. Summary

In compliance with the General Order, the attached General Nutrient Production and Budget Analysis provides an overview of the expected supply of nutrients available from a discharge facility anticipated for land application use or export from the facility. This analysis focuses on the nitrogen, phosphorus and potassium nutrients found and analyzed in the dairy waste through a sampling and analysis program. The General Nutrient Production and Balance Analysis is a guide to assist the discharger and Certified Nutrient Management Specialist to administer the nutrients expected from a facility.

ii. Nutrient Measurement Method, Application, and Export:

- a. The General Nutrient Production and Balance Analysis examines the amount of nitrogen, phosphorus and potassium expected to be generated by dairy waste at the discharger's facility are made using excretion factors based on standards established by the American Society of Agricultural Engineers. This analysis uses a 40 percent atmospheric loss of nitrogen on the production facility and breaks down the capture rate of the nitrogen in either the liquid or solid form. The capture rates of nitrogen are dependent upon the dairy facility's housing system and management practices. The American Society of Agricultural Engineers provides standards used to estimate capture rates between different housing systems (liquid form: 71% under a freestall system, 29% under a flush-lane, and 11% under an open-lot). This analysis allows the capture rate to be customized when site-specific data is available by a civil engineer.
- b. This analysis estimates the pounds of nitrogen, phosphorus and potassium available for land application or export to another user.
- c. Land application of nutrients under the control of the discharger needs to be applied in accordance with the General Order and this Nutrient Management Plan. Exports of dairy waste must be tested and recorded with a "Manure Manifest" documentation provided by the Regional Water Quality Control Board. An approved wastewater agreement is required prior to the export of processing wastewater from the dairy facility.

iii. Results

- a. From the available nutrients for land application, this analysis provides a guideline to estimate the number of acres required to agronomically utilize the nutrients generated at this confined animal feeding operation. This estimate is based on a double cropping system of average yield that would extract 400 pounds of nitrogen per acre, 60 pounds of Phosphorus, and 500 pounds of Potassium per acre.
- b. The nitrogen analysis utilizes agronomic and regulatory standards of a 1.4 nitrogen ratio of applied nitrogen over extracted nitrogen.
- c. The attached General Nutrient Production and Budget Analysis estimates the number of acres needed to agronomically manage the nutrients found in dairy waste. There are many variables that may affect the specific nutrient balance and management on this facility and this analysis is to only serve as a guideline until further data can be collected and analyzed by a Certified Nutrient Management Plan Specialist.



Nutrient Budget

Kiss Cattle, LLC 2020

General Nutrient Production and Balance Analysis

Animal	Head	Housing Type	Nitrogen			
			Liquid		Solid	
			Net Available for Application*	Acres Required **	Net Available for Application*	Acres Required **
Heifers (15-24)	400	Scraped Drylot	3,661.68	6.5	29,626.32	52.9
Heifers (7-14)	600	Scraped Drylot	3,758.04	6.7	30,405.96	54.3
Calves (4-6)	3,500	Scraped Drylot	11,804.10	21.1	95,505.90	170.5
Calves (0-3)	3,500	Scraped Drylot	14,333.55	25.6	115,971.45	207.1
	8,000		33,557.37	59.9	271,509.63	484.8
Total Liquids & Solids						
			Capture	Available	Required	
			508,445.00	305,067.00	544.8	

* Atmospheric Loss of 40% nitrogen used to calculate Net Available for Application

** Nitrogen Excretion Levels: 400lbs/acre (To meet a 1.4 ratio)

Excretion factors from ASAE D.384.2 March 2005, Table 1b, Page 2. Potassium excretion values for heifers and calves are not available in this study and were extrapolated based upon weight.



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Kiss Cattle, LLC 2020 General Nutrient Production and Balance Analysis

Animal	Head	Housing Type	Phosphorus		Potassium	
			Net Available for Application	Acres Required	Net Available for Application	Acres Required
				Extraction		Extraction
Heifers (15-24)	400	Scraped Drylot	8,760.00	146.0	26,280.00	52.6
Heifers (7-14)	600	Scraped Drylot	9,636.00	160.6	32,850.00	65.7
Calves (4-6)	3,500	Scraped Drylot	56,210.00	936.8	102,200.00	204.4
Calves (0-3)	3,500	Scraped Drylot	12,775.00	212.9	51,100.00	102.2
	8,000		87,381.00	1,456.4	212,430.00	424.9

Phosphorus Extraction Levels: 60lbs/acre (To meet a 1.0 ratio)
 Potassium(K) Extraction Levels: 500lbs/acre (To meet a 1.0 ratio)

No atmospheric losses computed and capture rates between liquid and solid forms are unknown

Excretion factors from ASAE D.384.2 March 2005, Table 1b, Page 2. Potassium excretion values for heifers and calves are not available in this study and were extrapolated based upon weight.



Innovative Ag Services, LLC

B. General Salt Production and Loading Analysis (Attachment C)

- i. Guidelines
 - a. The attached General Salt Production and Loading Analysis estimates the amount of salts generated and estimates the amount of land application area needed to agronomically manage those salts.
 - b. Salt production is quantified using the American Society of Agricultural Engineers standards for salt excretion for each classification of animal that is housed at this facility.
 - c. This analysis uses the same capture rates as nitrogen to determine the amount of salts in both the liquid and the solid forms.
 - d. The total amount of salts is calculated and presented in this report.
- ii. Results
 - a. This analysis uses a maximum loading rate of salt at 2,000 pounds per acre on a single crop and 3,000 pounds per acre on a double crop.
 - b. This analysis shows the number of acres that may be needed to mitigate salts at these maximum loading rates. The Certified Nutrient Management Specialist and the discharger can use this analysis as a guideline for the acres that may be required.
 - c. These results do not display the required acres to comply with law, rather the acres needed for common agronomic and environmental practices.
- iii. Salt Production and Loading Mitigation
 - a. This CAFO facility has prepared and submitted a Salinity Report in compliance with the RWQCB to minimize salt in the dairy waste and certifies that they will implement the approved measure identified to minimize salts in dairy waste.
 - b. This Nutrient Management Plan requires the regular testing of the soil for salt content, with a specific analysis for Sodium and other key salts to qualify the salt management on the land application area of this facility.



C. Waste Application Summary (Attachment D)

- i. Nutrient Budget Summary
 - a. The Nutrient Budget Summary provides the estimated supply of nutrient from the facility, the recommended application of nutrients to each field, the expected demand from each field, and the nutrient ratio for nitrogen, phosphorus and potassium for each field.
 - b. This summary also reviews the whole farm nutrient balance by totaling the applied recommended application and the expected demand of nutrients. This analysis provides a helpful evaluation by holistically reviewing each discharge facility.
 - c. This summary evaluates the nitrogen, phosphorus and potassium nutrient with the different forms of discharge waste (liquid and solid) and estimates the amount of wastewater and solid manure to be exported annually.
 - d. The attached Nutrient Budget Summary demonstrates if the recommend applications meet the demand of the crops with the expected supply from the facility.
- ii. Storage Period
 - a. The storage period is defined as the maximum period of time anticipated between land application events based on proper timing and compliance with the technical standards for a Nutrient Management Plan. The historic and anticipated use of wastewater during the fall and winter months has been evaluated on this facility. This Nutrient Management Plan proposes the application of wastewater during the 120-day period of December through March. The storage period for this facility with the land application available shall be 120 days, unless otherwise noted.



Kiss Cattle, LLC 2020 Waste Application Summary

Field	Acres	N Applied - Liquid Waste	N Applied - Solid Waste	Total N Applied	N Removed	N Ratio	P Applied	P Removed	P Ratio	K Applied	K Removed	K Ratio
1 (old)	17	0.00	0.00	0.00	8,657.76	0.00	0.00	1,412.36	0.00	0.00	6,785.55	0.00
Totals:	17	0.00	0.00	0.00	8,657.76	0.00	0.00	1,412.36	0.00	0.00	6,785.55	0.00
Total Available For Application:		33,557.37	271,509.63	305,067.00			87,381.00			212,430.00		
Excess (Deficient) Available:		33,557.37	271,509.63	305,067.00			87,381.00			212,430.00		

Gallons of Processed Wastewater to be Exported Annually: 20,501,251
 Tons of Corral Solids to be Exported Annually: 8,828
 Whole Farm Balance: 0.00
 Whole Farm Balance without Recommended Exports: 35.24

All wastewater accumulated in a dry form is exported off site.



D. Field-by-Field Nutrient Budget (Attachment E)

i. Data Sources

The Field-by-Field Nutrient Budget analysis focuses on each land application area and defines the crop(s) planned for production as required by the General Order. Each field budget is based off the best available data including, but not limited to: harvest lab data, yield records, land application records, manure laboratory data, process wastewater laboratory data, irrigation water laboratory data, expected atmospheric deposition, and soil laboratory data.

ii. Nutrient Application Rate

The nutrient application rates for each application must follow the technical standards established by the General Order for Existing Milk Cow Dairies, R5-2013-0122 (Attachment C – Technical Standards for Nutrient Management V.B.). The quantity of each nutrient source to be utilized for land application and crop production is defined to meet crops demand for the nutrients while complying with the General Order.

iii. Nutrient Application Timing and Methodology

- a. The timing of applications within the field's budget are dependent on field conditions and are to be made using the Technical Standards established within the General Order for Existing Milk Cow Dairies, R5-2013-0122 (Attachment C – Technical Standards for Nutrient Management, Section V. C.).
- b. Each application of nutrients shall be applied uniformly to application areas or as prescribed by precision agricultural techniques. Unless otherwise noted, the method for solid manure applications are to be made with a spreader truck and process wastewater applications are to be made by the mixing with a flood irrigation event.



Kiss Cattle, LLC 2020 Nutrient Applications

Field Name: 1 (old)

Acres: 17

Field Summary (in lbs/acre)			
	Nitrogen	Phosphorus	Potassium
Process Wastewater Applied	0.00	0.00	0.00
Solid Manure Applied	(509.28)	(83.08)	(399.15)
Nutrient Ratio	0.00	0.00	0.00

Crop 1: Wheat (South Valley) Variety: Wheat (South Valley) - General Plant Date: November 2019 Acres Planted: 17

Date	Application	Quantity (per Acre)	Units	N Value	Units	Nitrogen from			Phosphorus (lbs per acre)	Potassium (lbs per acre)
						Process Wastewater	Solid Manure	Nitrogen from		
11/01/2019	Ground Water	5.00	Acres Inches	0.00	mg/L				0.00	0.00
03/01/2020	Ground Water	5.00	Acres Inches	0.00	mg/L				0.00	0.00
04/01/2020	Ground Water	5.00	Acres Inches	0.00	mg/L				0.00	0.00
05/01/2020	Harvest	20.00	Tons	0.68	%			(272.83)	(44.35)	(217.73)
						(272.83)		(44.35)	(217.73)	

Total Nutrients Applied	0.00
Total Nutrients Harvested	(272.83)
Nutrient Ratio	0.00



Kiss Cattle, LLC 2020 Nutrient Applications

Field Name: 1 (old) Acres: 17

Crop 2: Corn (Silage) Variety: Corn (Silage) - General Plant Date: June 2020 Acres Planted: 17

Date	Application	Quantity (per Acre)	Units	N Value	Units	Nitrogen from			Phosphorus (lbs per acre)	Potassium (lbs per acre)
						Wastewater	Solid Manure	(lbs per acre)		
05/15/2020	Ground Water	6.00	Acre Inches	0.00	mg/L				0.00	0.00
06/15/2020	Ground Water	5.00	Acre Inches	0.00	mg/L				0.00	0.00
07/01/2020	Ground Water	5.00	Acre Inches	0.00	mg/L				0.00	0.00
07/15/2020	Ground Water	5.00	Acre Inches	0.00	mg/L				0.00	0.00
08/01/2020	Ground Water	5.00	Acre Inches	0.00	mg/L				0.00	0.00
08/15/2020	Ground Water	5.00	Acre Inches	0.00	mg/L				0.00	0.00
09/15/2020	Ground Water	5.00	Acre Inches	0.00	mg/L				0.00	0.00
09/30/2020	Harvest	28.00	Tons	0.42	%				(38.73)	(181.42)

Total Nutrients Applied		(236.45)	(38.73)	(181.42)
Total Nutrients Harvested		(236.45)	(38.73)	(181.42)
Nutrient Ratio		0.00	0.00	0.00



Innovative Ag Services, LLC

IV. SURFACE WATER PROTECTIVE MEASURES

This section identifies all potential surface waters or conduits to surface water that are within 100 feet of any land application area. For each land application area that is within 100 feet of surface water or a conduit to surface water, the setback, vegetated buffer, or other alternative practice that will be implemented to protect surface water is identified.

Manure and process wastewater shall not be applied closer than 100 feet to any down gradient surface waters unless a 35-foot wide vegetated buffer or physical barriers subsisted for the 100-foot setback or alternative conservation practices or field-specific conditions will provide pollutant reductions equivalent or better than the reductions achieved by the 100-foot setback.

A. Setback

A Setback is a specified distance from surface waters or potential conduits to surface waters where manure and process wastewater may not be land applied, but where crops may continue to be grown.

B. Vegetated Buffer

- i. A vegetated buffer is a narrow, permanent strip of dense perennial vegetation where no crops are grown and which is established parallel to the contours of and perpendicular to the dominant slope of the land application area for the purposes of slowing water runoff, enhancing water infiltration, trapping pollutants bound to sediment, and minimizing the risk of any potential nutrients or pollutants from leaving the land application area and reaching surface waters.
- ii. Removal of vegetation in vegetated buffers will be in accordance with site production limitations, rate of plant growth, and the physiological needs of the plants.
- iii. Do not mow below the recommended height for the plant species.
- iv. Maintain adequate ground cover and plant density to maintain or improve filtering capacity of the vegetation.
- v. Maintain adequate ground cover, litter, and canopy to maintain or improve infiltration and soil condition.
- vi. Periodic rest from mechanical harvesting may be needed to maintain or restore the desired plant community following episodic events such as drought.
- vii. When weeds are a significant problem, implement pest management to protect the desired plant communities.
- viii. Prevent channels from forming.

C. Physical Barriers and Alternatives

- ix. Examples of physical barriers and alternative conservation practices as applicable to field specific conditions may used alone or in conjunction with each other to provide a pollutant reduction equivalent or better than the reductions achieved by the 100-foot set back are: a levee, a raised road, a border, a berm, a diversion ditch, a surface water collection system, an uphill gradient, regulated wastewater application system such as drip irrigation or sprinklers.



D. Site Specific Surface Water Protective Measures

There is a canal that runs along the south of Field #1. This canal is protected by a physical barrier, an elevated road or a canal bank, which provides an equivalent of a 100-foot setback or better.



V. FIELD RISK ASSESSMENT

This section evaluates the effectiveness of management practices used to control the discharge of waste constituents from land application areas by assessing the water quality monitoring results of discharges of manure, process wastewater, tailwater, subsurface drainage, or storm water from the land application areas.

Has this facility had any of the following discharges from any land application areas to surface water in the past twelve (12) months?

- | | | |
|---|-----------|--|
| • Process wastewater | _____ Yes | _____ <input checked="" type="checkbox"/> No |
| • Manure | _____ Yes | _____ <input checked="" type="checkbox"/> No |
| • Storm Water | _____ Yes | _____ <input checked="" type="checkbox"/> No |
| • Tailwater* (within 60 days of manure or wastewater application) | _____ Yes | _____ <input checked="" type="checkbox"/> No |
| • Subsurface (tile) drainage | _____ Yes | _____ <input checked="" type="checkbox"/> No |

If you answered "No" to all the above, then nitrogen and/or phosphorus have not moved from any of your land application areas to surface water and your Field Risk Assessment is complete.

If you answered "Yes" to any of the above, then the results of the water quality monitoring of the discharges have been used to assess the movement of nitrogen and phosphorus from each land application area for each of the discharges identified above.

*This only includes a discharge of tailwater that occurs less than 60 days after application of manure and/or process wastewater.



VI. RECORD-KEEPING

The discharger shall maintain records for each land application area as required in the Record-Keeping Requirements of Monitoring and Reporting Program No. R5-2013-0122.

It is the discharger's responsibility to accurately complete these forms for each field and crop grown each year. The records that will be maintained for each land application area are identified in the following form.



VII. NUTRIENT MANAGEMENT PLAN REVIEW

A. Nutrient Management Plan Updates

- i. This Nutrient Management Plan shall be updated when discharges from any land application area exceed water quality objectives, a nutrient source has changes, or site-specific information has become available to replace default values used in the overall nutrient balance or the nutrient budget, nitrogen application rates in any land application area exceed the rates specified or the Field Risk Assessment finds that management practices are not effective in minimizing discharges.
- ii. This Nutrient Management Plan shall be updated prior to any anticipated changes that could affect the overall nutrient balance or the nutrient budget such as, but not limited to, a crop rotation change, changes in the available cropland, or the changes in the amount or type of nutrients generated.

B. Nutrient Management Plan Review & Regional Board Notice

The discharger shall review the Nutrient Management Plan at least once every five years and notify the Regional Board in the annual report of any proposed changes that would affect the Nutrient Management Plan.

C. Benefits of a Nutrient Management Plan

- i. The Nutrient Management Plan was written to assist the dairy producer and farm management team produce valuable crops. The implementation of sustainable agronomic practices found in this NMP will increase yields, reduce costs, improve quality, mitigate risks, and sustain productivity/profitability.
- ii. To maximize the benefits and the professional agronomic services provided by Innovative Ag Services, LLC, regular reviews of the nutrient supply and demand need to be made throughout the year. The ever-changing dynamics of crop production require constant management, including regular input and alteration of the Nutrient Management Plan.

VIII. REFERENCES

California Regional Water Quality Control Board – Central Valley Region – Order Number R5-2013-0122
"Waste Discharge Requirements General Order for Existing Milk Cow Dairies"

California Regional Water Quality Control Board – Central Valley Region – Sampling and Analysis
"Approved Sampling and Analysis Procedures for Nutrient and Groundwater Monitoring at Existing Milk Cow Dairies"
http://www.waterboards.ca.gov/centralvalley/water_issues/dairies/general_order_guidance/sampling_analysis/index.shtml



Manure/Process Wastewater Tracking Manifest

Instructions:

1. Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2. If there are multiple destinations, **complete a separate form for each destination.**
3. The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4. The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator: Gerrit Roeloffs

Name of Dairy Facility: Kiss Cattle, LLC

Facility Address: 9256 S. Valentine Ave. Fresno 93706
Number and Street City Zip Code

Contact Person Name and Phone Number: Gerrit Roeloffs (559) 280-8053
Name Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: _____

Address of Hauling Company /Person: _____
Number and Street City Zip Code

Contact Person: _____
Name Phone Number

Destination Information:

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Name Number and Street City Zip Code Phone Number

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

Number and Street City Zip Code Assessor's Parcel Number

Dates Hauled: _____



Innovative Ag Services, LLC
1201 Delta View Road, Suite 5 Hanford, CA 93230
Office (559) 587-2800 Fax (559) 587-2801

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 8,828 Tons or Cubic Yards (indicate which units used)
Manure Solids Content (if amount reported in tons): 76.9%
Manure Density (if amount reported in cubic yards): _____

Method used to determine amount of manure: _____

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

Process Wastewater: _____ Gallons
Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2013-0122) with any party that receives process wastewater from the Operator for its own use? (Please check one)

Yes No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after **31 December 2007** to such party.

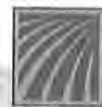
_____ (Operator shall provide initials here to acknowledge this requirement).

Certification:

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

Operator's Signature: [Signature] Date: 11-14-19

Hauler's Signature: _____ Date: _____



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