OFFICE NO: PCA SYSTEM TASK NO:

INSPECTOR(S): Anthony D'Angelo (PG Environmental, LLC)

FACILITY INFORMATION

8365964001 WDID NUMBER	**Gerben Hettinga** OWNER NAME	**GH Dairy No. 2** FACILITY NAME
CAG018001 NPDES NUMBER	**Ex. 6 Personal Privacy (PP)** OWNER ADDRESS	FACILITY ADDRESS
R8-2007-0001 RWQCB ORDER NO.	**Ontario, CA 91762** OWNER CITY AND STATE	**Ontario, CA 91762** FACILITY CITY AND STATE
03/07/2013 SCHEDULED INSPECTION DATE	**Gerben Hettinga** OWNER CONTACT	**Gerben Hettinga** FACILITY CONTACT
03/07/2013 ACTUAL INSPECTION DATE	**Ex. 6 Personal Privacy (PP)** OWNER PHONE NO.	FACILITY PHONE NO.
Unknown RECEIVING WATER	Ex. 6 Personal Privacy (PP) FACILITY LATITUDE	Ex. 6 Personal Privacy (PP) FACILITY LONGITUDE

INSPECTION TYPE

- ☐ (A1) "A" type compliance -- (EPA Type S)
- ☒ (B1) "B" type compliance -- (EPA Type C)
- ☐ (02) Noncompliance follow-up - Correction of a previously identified violation
- ☐ (03) Enforcement follow-up - Enforcement action is being met
- ☐ (04) Complaint - Complaint
- ☐ (05) Pre-requirement
- ☐ (06) Miscellaneous

_____ (Type) NOTE: If this is an EPA inspection not mentioned above, please note type (e.g., biomonitoring, performance audit, diagnostic, etc.)

No	Was the inspection pre-announced?
Yes	Were potential violations noted during this inspection?
No	Was this a quality assurance-based inspection?
No	Were bioassay samples collected?
No	Were water quality samples collected?

INSPECTION SUMMARY

The overall Facility rating, on a 1 (Unreliable) to 5 (Very Reliable) scale, was determined to be: 2 = Marginal.

GH Dairy No. 2 (hereinafter, Facility) was rated "Marginal" due to the following items:

- **A depth marker was not installed in lagoon No. 1 (refer to Photo 2)**
- **Annual Reports for the previous five (5) years were not retained onsite or available for review at the time of the inspection**
- **Weekly (and daily) Storm Water Management Structure visual inspections were not conducted at the Facility**
- **Manure Tracking Manifests were not retained onsite or available for review at the time of the inspection**
- **The Engineered Waste Management Plan (EWMP) was not retained onsite or available for review at the time of the inspection**
- **The EWMP was not fully implemented onsite at the Facility**

INSPECTOR DATA

INITIALS __AJD__ SIGNATURE _____ DATE_03/07/2013_____

CIWQS DATA ENTRY DATE: _____ REGIONAL BOARD FILE NUMBER: _____

FOR INTERNAL USE: REVIEWED BY: (1)_____ (2) _____ (3) _____

REPORT PREPARED BY: Anthony D'Angelo (PG Environmental, LLC) ON 03/25/2013

EPA SUGGESTED INSPECTION CHECKLIST

☒ Permit	☐ Flow Measurement	☐ Pretreatment	☒ Operations & Maintenance
☒ Records/Reports	☐ Laboratories	☐ Compliance Schedules	☐ Sludge Disposal
☒ Facility Site Review	☐ Eff/Receiving Waters	☐ Self- Monitoring	☐ Other

POTENTIAL VIOLATIONS

1. A depth marker was not installed in lagoon No. 1, located in the central portion of the Facility as required by Permit Attachment B - Monitoring and Reporting Program, Section I.B.1 (refer to Photo 2). This is a recurring issue identified in a previous inspection conducted on October 23, 2008.

Description of Potential Violation: **Refer to Item No. 1 of the 'Inspection Observations' section of this report for additional details**

2. Weekly (and daily) Storm Water Management Structure visual inspections were not conducted at the Facility as required by Permit Attachment B - Monitoring and Reporting Program, Section I.B.

Description of Potential Violation: **Refer to Item No. 1 of the 'Annual Report Review' section of this report for additional details.**

3. The EWMP was not retained onsite or available for review at the time of the inspection as required by Provision VII.C.3.c of the Permit.

Description of Potential Violation: **Refer to Item No. 1 of the 'Engineered Waste Management Plan Review' section of this report for additional details.**

4. The EWMP was not fully implemented onsite at the Facility at the time of the inspection, as required by Provision VII.C.3.b of the Permit (refer to Photos 2 through 7).

Description of Potential Violation: **Refer to Item Nos. 2 and 3 of the 'Engineered Waste Management Plan Review' section of this report for additional details.**

Date of Potential Violation: **N/A**

Date of Potential Violation Determination: **March 7, 2013**

INSPECTION OBSERVATIONS

On March 7, 2013, a Concentrated Animal Feeding Operation (CAFO) inspection was conducted for Santa Ana Water Board Order No. R8-2007-0001 - 'General Waste Discharge Requirements for Concentrated Animal Feeding Operations (Dairies and Related Facilities) within the Santa Ana Region', NPDES General Permit No. (CAG018001) at GH Dairy No. 2 in Ontario, California (refer to Photo 1). The inspector met with Mr. Gerben Hettinga (Owner, GH Dairy No. 2) and Mr. Sergio Romero (Foreman, GH Dairy No. 2) at approximately 11:15 AM on March 7, 2013. Mr. Hettinga declined to participate in the Facility site visit and informed the inspector that all records (including the EWMP) were not retained onsite, but rather stored offsite at Mr. Hettinga's main office at Ex. 6 Personal Privacy (PP) in Ontario, CA. Mr. Romero accompanied the inspector during the site visit. The inspector held a closing conference with Mr. Romero at the conclusion of the inspection. During the closing conference, the inspector reviewed the preliminary inspection findings with the Facility representative.

The Facility is an 80-acre dairy farm with an animal population of approximately 1,100 milking cows, 153 dry cows, 55 heifers, and 17 bulls at the time of the inspection. Process wastewater from milking and cow washing activities is collected into a sump on the south side of the milking barn. Process wastewater collected in the sump is gravity-fed west and south to a series of standpipes located in pasture Nos. 1, 2, and 3 (refer to Photos 3 and 4). According to Mr. Romero, all process wastewater from cow washing activities is piped to the Facility pastures for land application. At the time of the inspection, process wastewater water from the milking barn was being land applied onto pasture No. 2 via alfalfa valves (refer to Photos 4 and 5). Mr. Romero stated that the alfalfa valves are rotated twice a day and that all process wastewater lines are flushed every 3-4 days. All excess storm water runoff from the pastures and water from land application activities naturally flows to the southwest corner of the Facility to catch basin No. 1 (refer to Photo 6). A return flow system equipped with a sump pump is located in the southwest corner of the Facility, and is utilized to recycle water from catch basin No. 1 back to the standpipes located in pastures Nos. 1, 2, and 3 (refer to Photos 6, 7, and 8). Mr. Romero stated that the return sump pump is serviced monthly and that all solids that accumulate in the pastures and catch basin are removed twice per year. A concrete spillway was observed in the southwest corner of the Facility, adjacent to Merrill Avenue (refer to Photo 9). All storm water runoff from the corrals is collected into lagoon No. 1 (refer to Photos 2 and 10). Storm water runoff from corral Nos. 1 through 10 flows into the central cow lane located between the corrals, then south, via sheet flow, into lagoon No. 1 (refer to Photos 10 through 13). The north-central portion of lagoon No. 1 is concrete-lined to prevent erosion from sheet flow (refer to Photos 12 and 13). Storm water runoff from corral Nos. 11 through 19 flows south along the western perimeter of the corrals, then east into lagoon No. 1. Mr. Romero stated that lagoon No. 1 only collects storm water runoff from the corrals and milking barn area and that the lagoon is cleaned every October. The lagoon appeared well-maintained at the time of the inspection; however, a depth marker had not been installed in the lagoon (refer to Photo 2).

Mr. Romero stated that the corrals are cleaned two (2) to three (3) times a week and that manure is hauled offsite approximately three (3) times per year. Manure is hauled offsite by Polito, Franco, and Martinez Trucking and is diposed of typically at croplands in the San Jacinto region. Manure tracking manifests were not maintained onsite of all haul events during the 2012 reporting period. Mr. Romero stated that all mortalities are removed from the Facility immediately by Stiles Animal Removal, Inc.

FACILITY

CAFO Size: **Large** (at time of inspection) | Total Acres: **80** | Production Area Acres: **73.9**

CONTAINMENT STRUCTURES

Wastewater Lagoons: **1** | Evaporation Ponds: **0** | Catch Basins: **0**

Depth Markers: **0** | Other: **N/A**

ANIMALS ONSITE DURING INSPECTION

Milk Cows: **1,100** Dry Cows: **153** Heifers: **55**

Calves: **0** Other: **17 bulls**

INSPECTION OBSERVATIONS

1. The inspector observed, during the inspection, that a depth marker was not installed in lagoon No. 1 located in the central portion of the Facility as required by the Permit (refer to Photo 2). This is a recurring issue identified in a previous inspection conducted on October 23, 2008. Permit Attachment B - Monitoring and Reporting Program, Section I.B.1 states that "a marker shall be placed within each pond or impoundment to indicate the minimum capacity necessary to contain the runoff and direct precipitationof the 25-year, 24-hour rainfall event."

ANNUAL REPORT REVIEW

ANNUAL REPORT

Monitoring Year: **N/A** Reviewed: **No** Signed & Certified: **Unknown**

Submittal Date: **N/A**

REPORTED ANIMAL POPULATION

Milk Cows: **N/A** Dry Cows: **N/A** Heifers: **N/A**

Calves: **N/A** Other: **N/A**

MANURE INFORMATION

Amount of manure spread on cropland at the Facility: **None**

Amount of manure hauled away from the Facility: **Unknown by Facility representative**

Name and location of the composting operation, or, if the manure was hauled to cropland, the owner or tenant, and the destination address: **Croplands in Riverside County and San Jacinto Valley**

1. Weekly (and daily) Storm Water Management Structure visual inspections are not conducted at the Facility as required by the Permit. Specifically, Mr. Romero stated that internal inspections of the Facility are not conducted. Mr. Romero was not aware of the Permit required Weekly Storm Water Management Structure visual inspections. Permit Attachment B - Monitoring and Reporting Program, Section I.B states "all containment structures, including but not limited to, ponds, berms, and wastewater distribution lines, shall be inspected at least once a week during the entire year and at least once each 24-hour period during a storm event in which rainfall exceeds 0.5 inches in 24 hours. The findings of these inspections shall be documented on the attached CAFO Weekly Storm Water Management Structure Inspections Log Sheet (Attachment 1[of the Permit])." The Discharger must conduct Weekly Storm Water Management Structure visual inspections as required by Permit Attachment B - Monitoring and Reporting Program, Section I.B.

2. Annual Reports for the previous five (5) years were not available for review at the time of inspection. Mr. Hettinga stated that all records are maintained offsite at the Hettinga main office located at 14651 Grove Avenue in Ontario, CA. Permit Attachment B - Monitoring and Reporting Program, Section I.A states "all monitoring data shall be maintained for at least five (5) years and shall be made available to Regional Board, SWRCB, USEPA staff and/or their authorized representatives (including authorized contractor acting as their representative), upon request."

ENGINEERED WASTE MANAGEMENT PLAN (EWMP) REVIEW

Did the inspector review the EWMP in the RWQCB file?	**Yes**
Did the Facility have a copy of the EWMP on-site and available for review?	**No**
EWMP preparation date:	**September 2005**
EWMP prepared by:	**Nolte Associates, Inc.**
Santa Ana RWQCB EWMP acceptance date:	**September 28, 2005**
EWMP was certified by the Facility's engineer/consultant on:	**Unknown**

1. The EWMP was not retained onsite or available for review at the time of the inspection as required by the Permit. Mr. Hettinga stated that all records, including the EWMP, are maintained offsite at the Hettinga main office at Ex. 6 Personal Privacy (PP) in Ontario, CA. Provision VII.C.3.c of the Permit states that "a copy of the accepted Engineered Waste Management Plan (EWMP) for the facility shall be miantained on site and the person in charge of the dairy operation shall be familiar with its content."

2. The EWMP was not fully implemented onsite at the Facility as required by the Permit. Section V - 'Operation and Maintenance' of the EWMP identifies that all holding basins/lagoons be inspected weekly. In addition, the EWMP states that "daily inspections should be made upon all ponds, berms, and wastewater distribution and application equipment following the first significant rain event of each Winter season. These daily inspections should continue until large rain events cease in the Spring." Mr. Romero stated that weekly and daily storm water management structure visual inspections are not conducted at the Facility. Mr. Romero was not aware of the EWMP daily visual inspections requirements. Permit Attachment B - Monitoring and Reporting Program, Section I.B stated "all containment structures, including but not limited to, ponds, berms, and wastewater distribution lines, shall be inspected at least once a week during the entire year and at least once each 24-hour period during a storm event in which rainfall exceeds 0.5 inches in 24 hours. The findings of these inspections shall be documented on the attached CAFO Weekly Storm Water Management Structure Inspections Log Sheet (Attachment 1[of the Permit])." In addition, Provision VII.C.3.b of the Permit states that "the discharger shall develop and fully implement an Engineered Waste Management Plan (EWMP) acceptable to the Executive Officer". As a result of not conducting weekly and daily inspections outlined in the EWMP, the Discharger was not fully implementing the approved EWMP. The Discharger shall fully implement the approved EWMP as required by Provision VII.C.3.b of the Permit.

3. The EWMP was not fully implemented onsite at the Facility as required by the Permit. Section V - 'Operation and Maintenance' of the EWMP requires that the Discharger "disc percolation areas (fields) to about 18 inches to assure maximum percolation during wet seasons…All of the disposal areas should be disked at least once each year." Specifically, Mr. Romero informed the inspector that the disposal pastures are not disked or plowed to promote percolation and infiltration. Provision VII.C.3.b of the Permit states that "the discharger shall develop and fully implement an Engineered Waste Management Plan (EWMP) acceptable to the Executive Officer." As a result, the Discharger was not fully implementing the approved EWMP. The Discharger shall fully implement the EWMP as required by Provision VII.C.3.b of the Permit.

NUTRIENT MANAGEMENT PLAN (NMP) REVIEW (IF APPLICABLE)

Did the Facility have a copy of the NMP on-site and available for review?	**N/A**
Date NMP was prepared:	**N/A**
NMP prepared by:	**N/A**
Santa Ana RWQCB NMP acceptance date:	**N/A**

1. The Discharger does not apply manure, litter, or process wastewater to croplands under their ownership or operational control; therefore, the Discharger is not required to develop, implement, and retain onsite a Nutrient Management Plan as stated in Provision VII.C.3.d of the Permit.

FACILITY HOUSEKEEPING, WASTEWATER, AND MANURE INFORMATION

Typical Depth of Manure in Corrals (in inches):	**6-8**
Estimated Freeboard in Fullest Lagoon (in feet):	**Approx. 8**
Date of Last Lagoon Solids Removal, per Facility Representative:	**October 2012**
Disposal Location for Lagoon Solids:	**Croplands in Riverside County and San Jacinto Valley**

REVIEW OF FACILITY HOUSEKEEPING

1. Facility housekeeping appeared adequate at the time of the inspection.

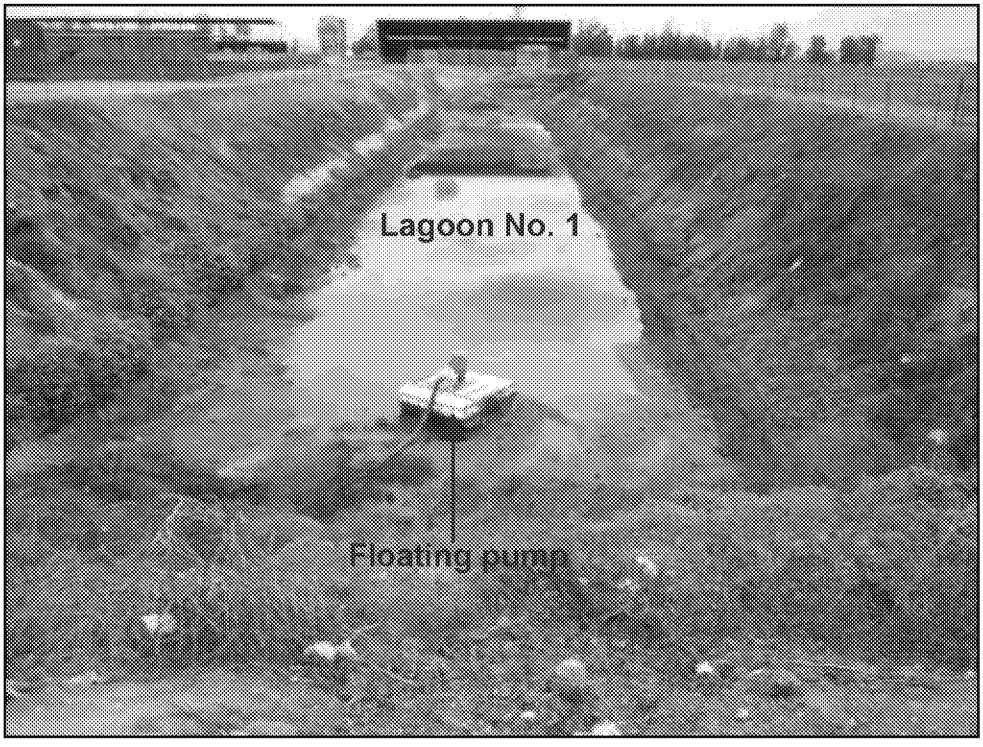
CONDITION OF BERMS AND CONTAINMENT STRUCTURES

2. The berms and containment structures at the Facility appeared to be adequately and routinely maintained at the time of the inspection.

ITEMS FOR FOLLOW UP ON FUTURE INSPECTIONS

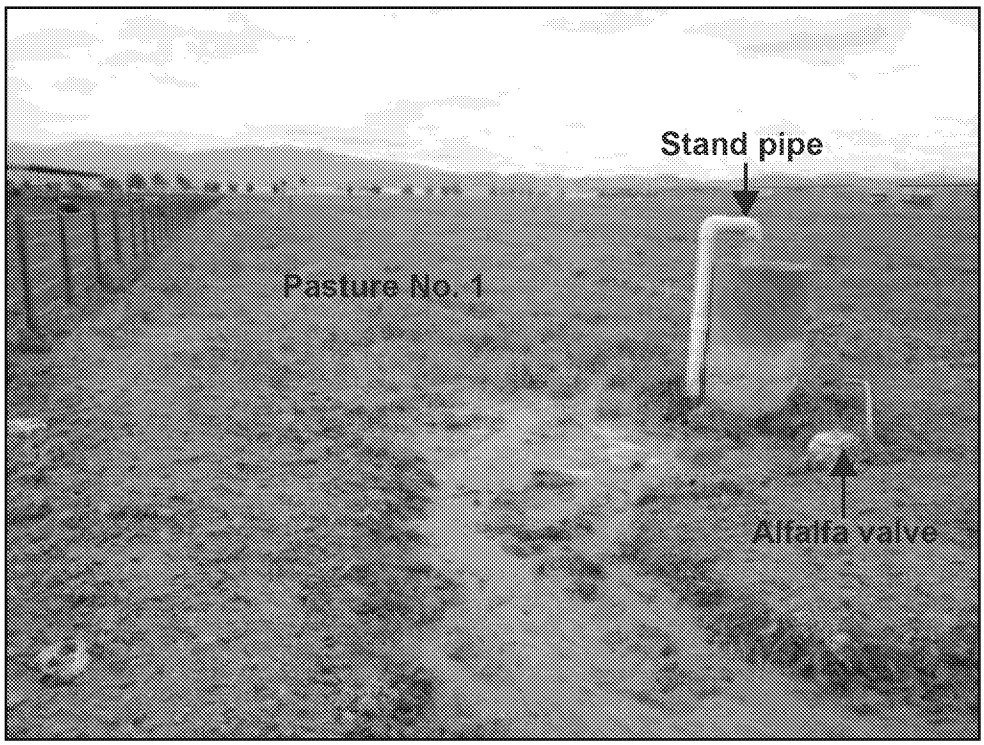
1. Verify whether a depth marker has been installed in lagoon No. 1
2. Verify whether the EWMP is retained onsite
3. Verify if weekly (and daily) storm water management structure visual inspections are conducted at the Facility
4. Verify whether the EWMP has been fully implemented onsite

Photograph 1. GH Dairy No. 2 Facility address and mailbox.

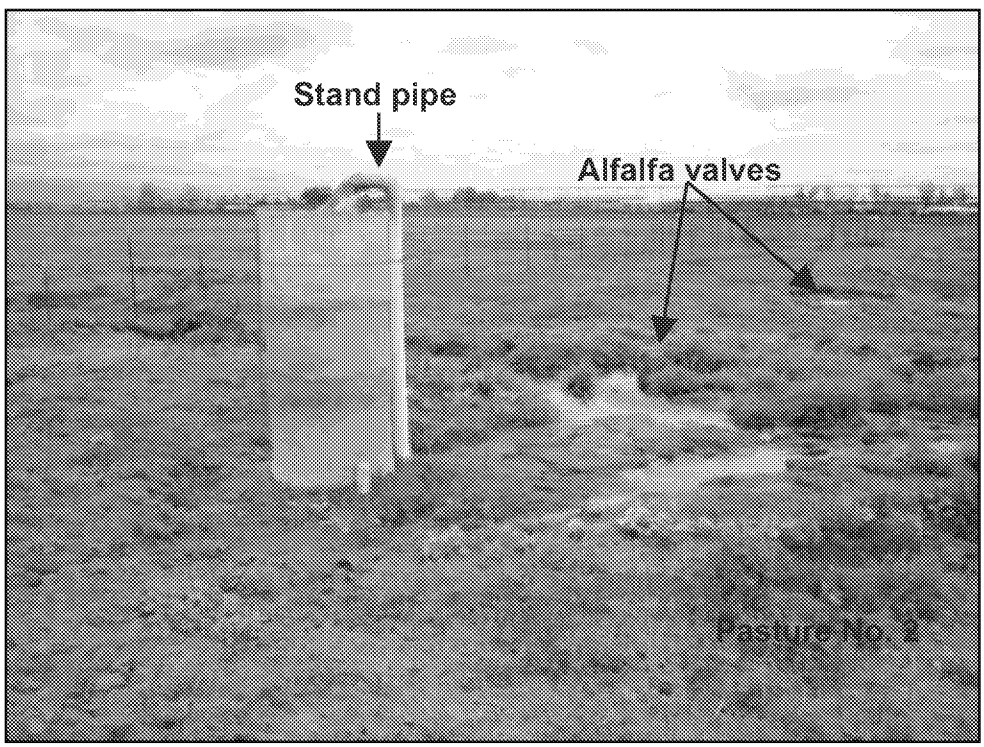


Photograph 2. View facing east of lagoon No. 1 located in the central portion of the Facility. Note the lagoon did not contain a depth marker.

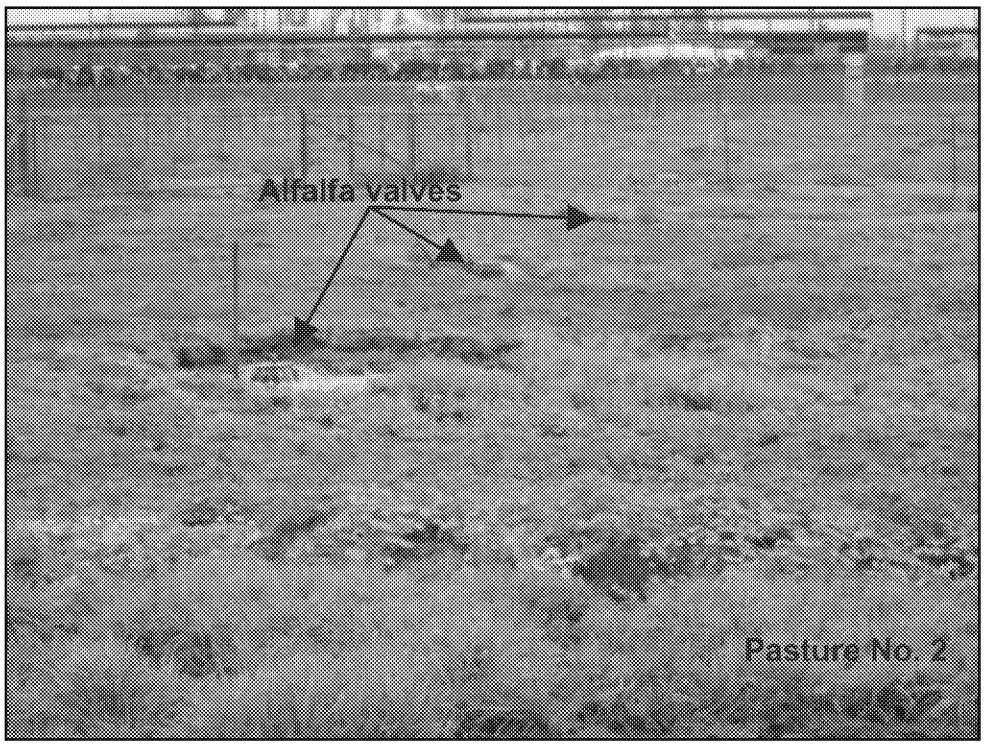
Inspection and Photograph Date: March 7, 2013



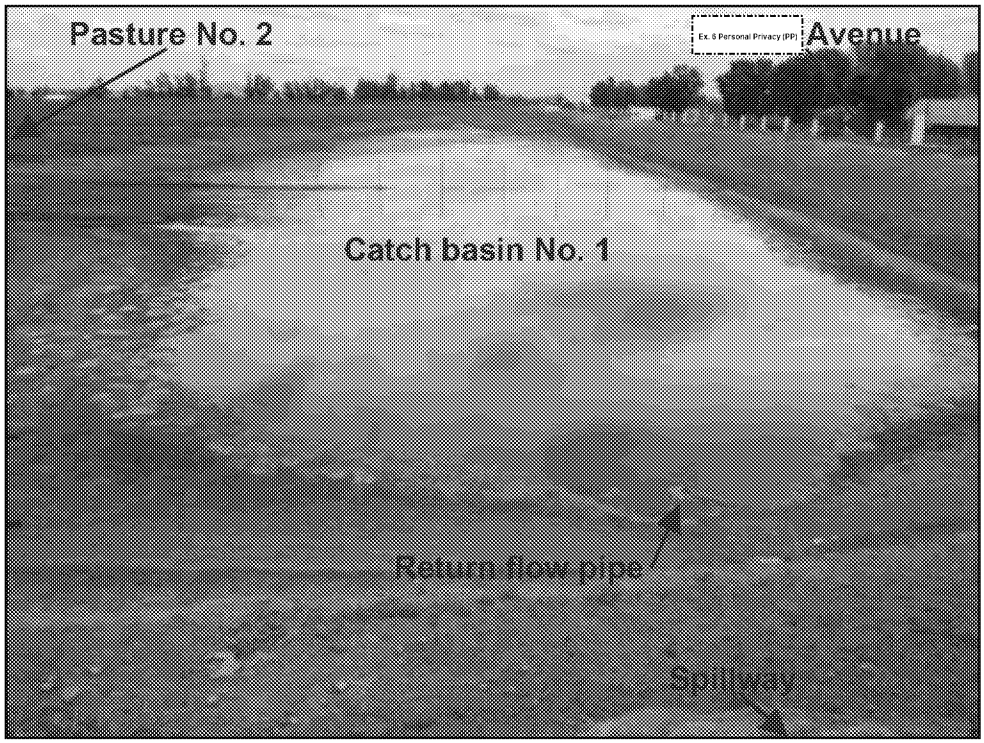
Photograph 3. View facing south of a stand pipe located in the northeast corner of pasture No. 1. All process wastewater flows from the milking barn sump may be piped to standpipes in pastures Nos. 1, 2, and 3.



Photograph 4. View facing east of a standpipe located on the north side of pasture No. 2. Note process wastewater from the milking barn was being land-applied onto pasture No. 2 at the time of the inspection.

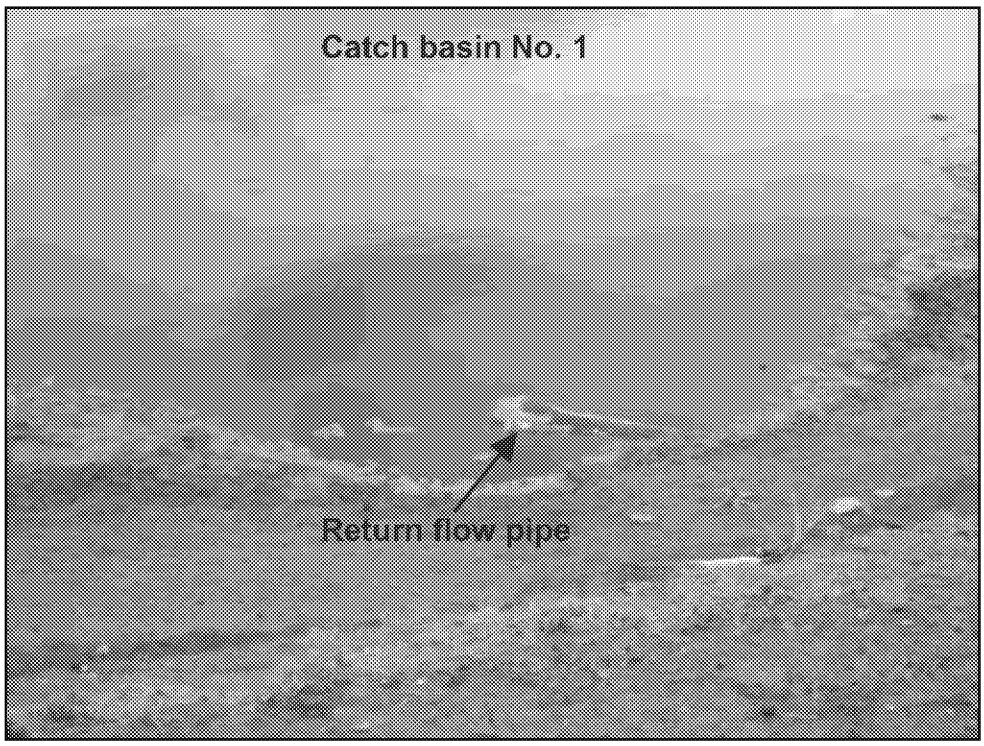


Photograph 5. View facing east of alfalfa valves in pasture No. 2 actively releasing process wastewater into pasture No. 2.

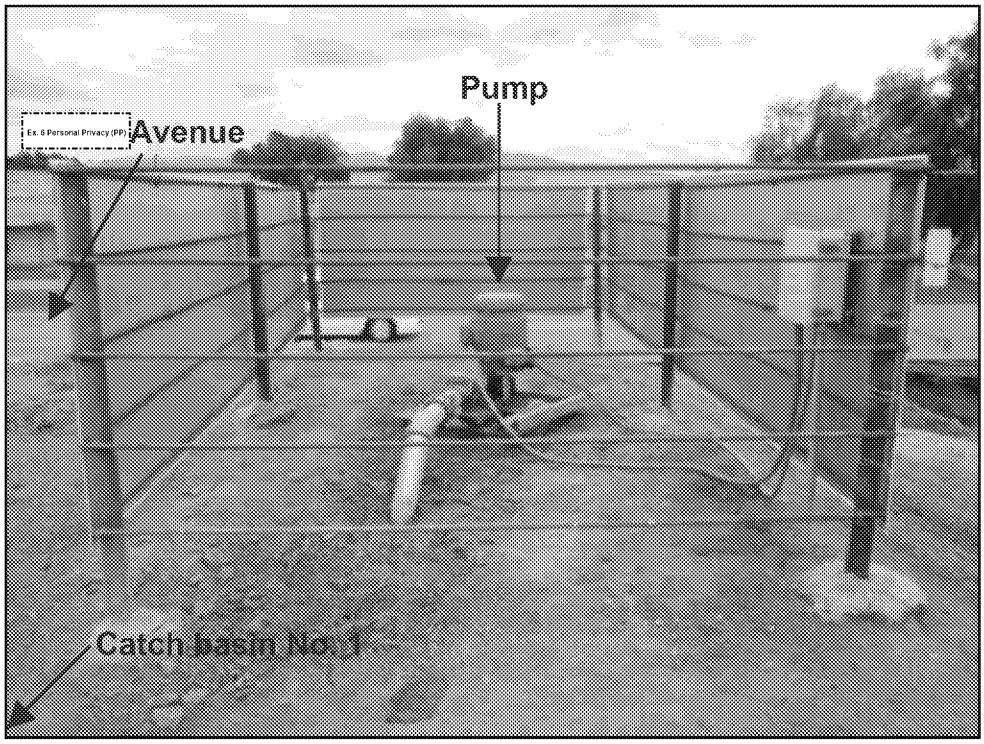


Photograph 6. View facing east of catch basin No. 1 located in the southwest corner of the Facility. Note wastewater from catch basin No. 1 flows into the return flow pipe and is pumped, via sump pump, to standpipes located in pasture Nos. 1, 2, and 3 for reuse, shown in Photographs 3, 4, and 5.

Inspection and Photograph Date: March 7, 2013

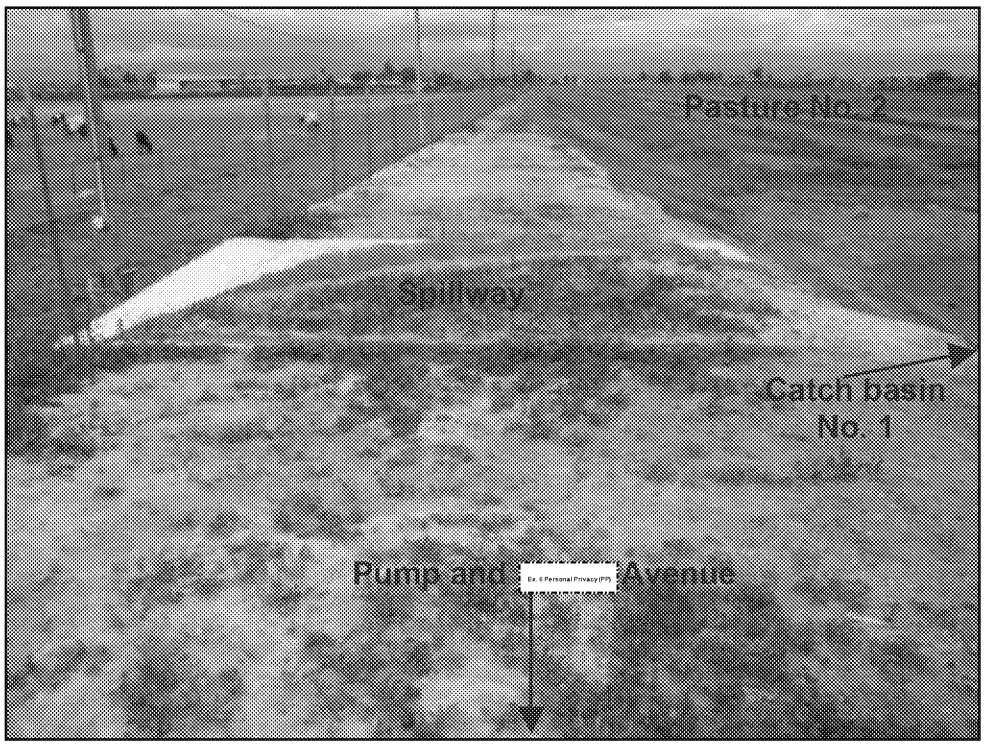


Photograph 7. Close-up view of the return flow pipe located on the west side of catch basin No. 1, shown in Photograph 6.

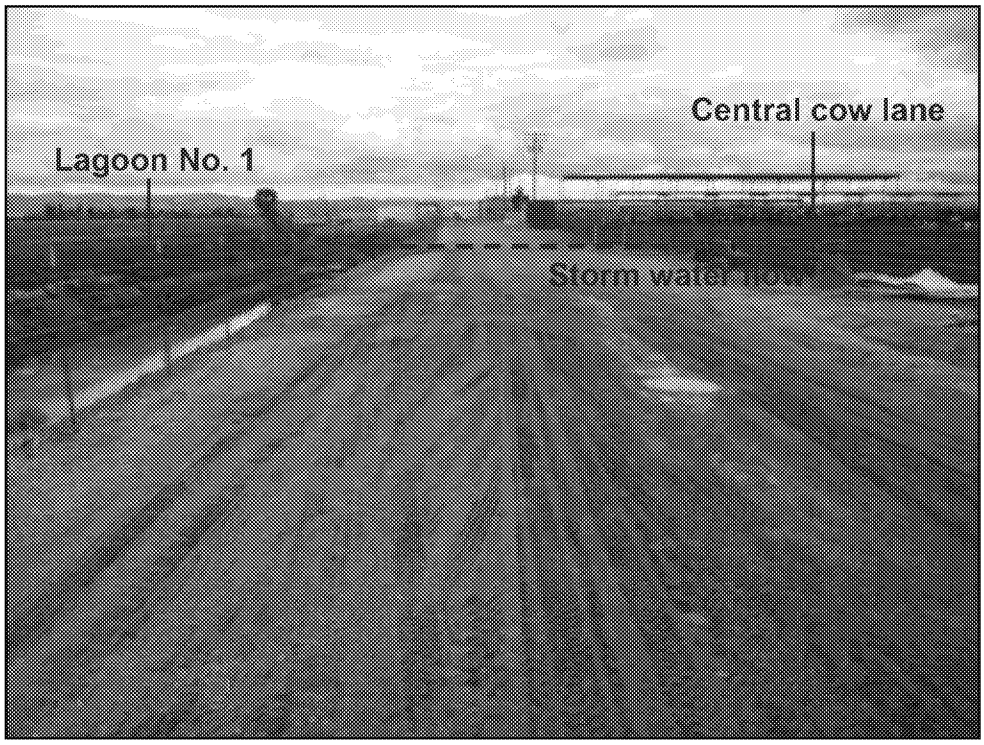


Photograph 8. View facing south of the return flow sump pump located in the southwest corner of the Facility, adjacent to catch basin No. 1 and Ex. 6 Personal Privacy (PP) Avenue.

Inspection and Photograph Date: March 7, 2013

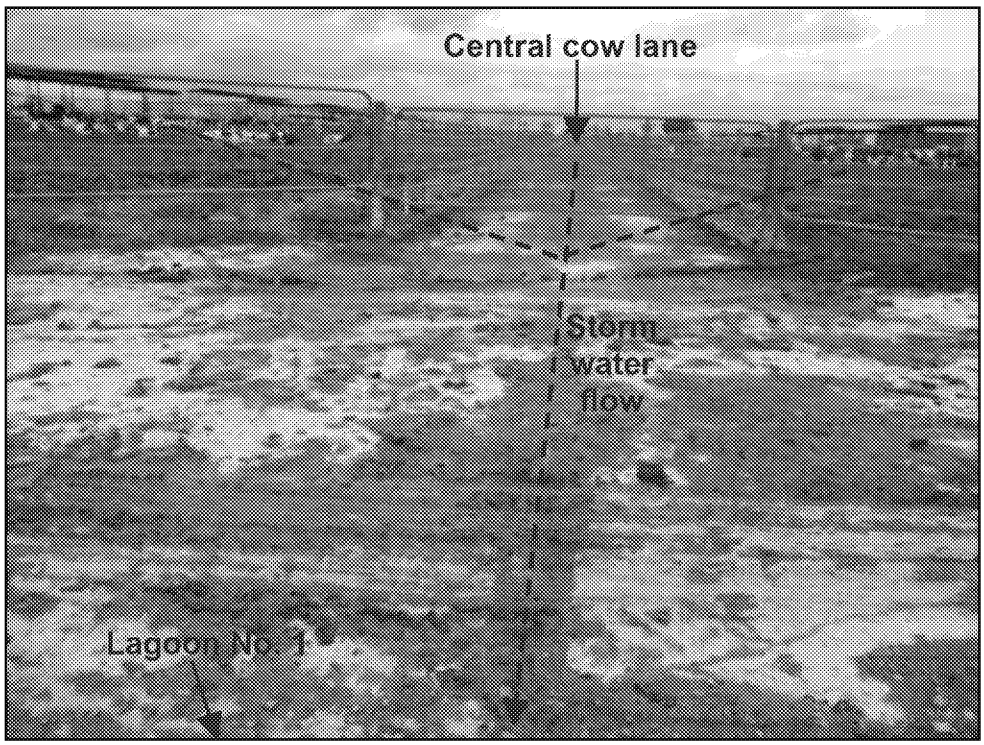


Photograph 9. View facing north of the concrete spillway located on the west side of catch basin No. 1, shown in Photographs 6 and 7.

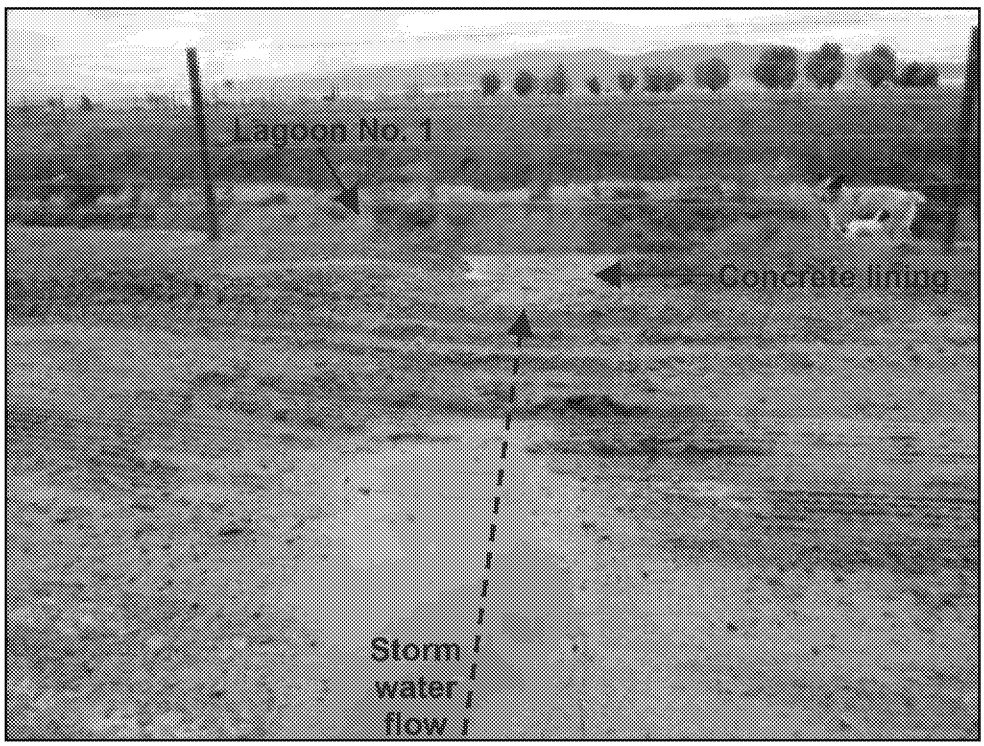


Photograph 10. View facing west of the storm water flow pathway from the corrals into lagoon No. 1. Note all storm water runoff from the corrals enters the lagoon via sheet flow through the central cow lane.

Inspection and Photograph Date: March 7, 2013

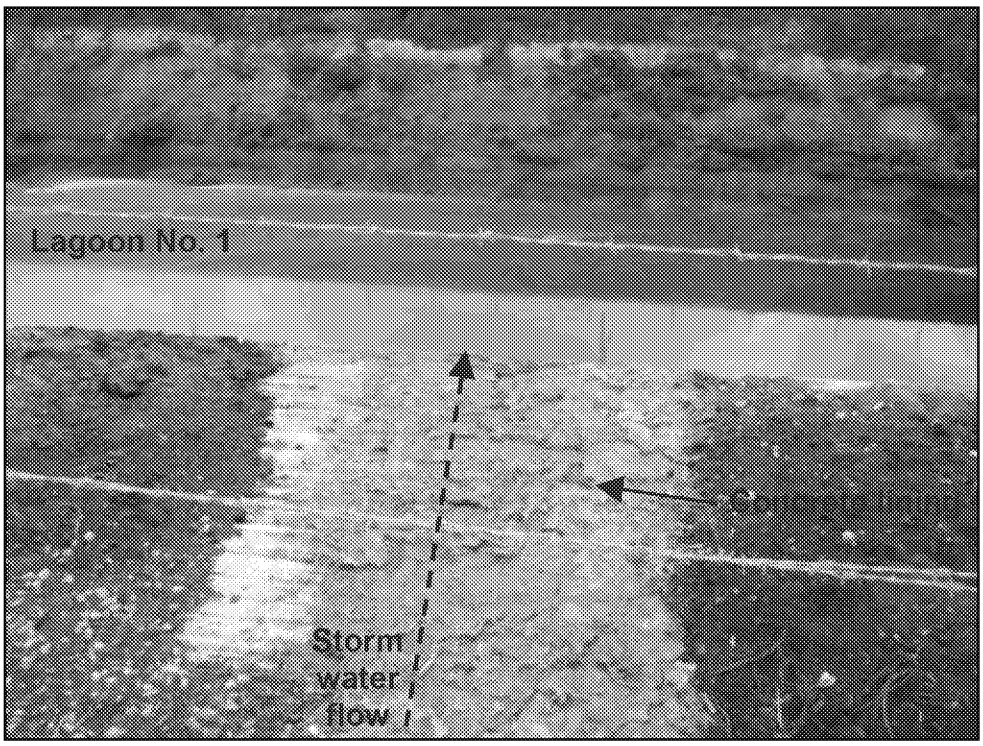


Photograph 11. View facing north of the central cow lane, north of lagoon No. 1. Note all storm water runoff from the corrals flows into the central cow lane, then south into lagoon No. 1.



Photograph 12. View facing south of the storm water flow pathway from the corrals into lagoon No. 1. Note the storm water runoff entrance location on the north-central side of lagoon No. 1 was lined with concrete to prevent erosion from occurring on the embankment.

Inspection and Photograph Date: March 7, 2013



Photograph 13. Close-up view of the concrete-lined storm water runoff entrance location on the north-central side of lagoon No. 1, shown in Photograph 12.