Armstrong Chicken Farms Clean Water Act inspection (41 of 88 photos total)
All photos taken by Kristine Karlson, EPA, on March 26, 2014.

Photo 1 – Sign at entry of Armstrong Egg Farms facility located at 27023 N Lake Wohlford Rd in Valley Center, CA.

Photo 2 – View of vehicle wheel wash at facility entrance. Wash water sprays tires and is collected in an underground sump.

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Photo 3 – View inside sump where wheel wash water is collected and reused. At the time we arrived, a vactor truck was cleaning out the sump.

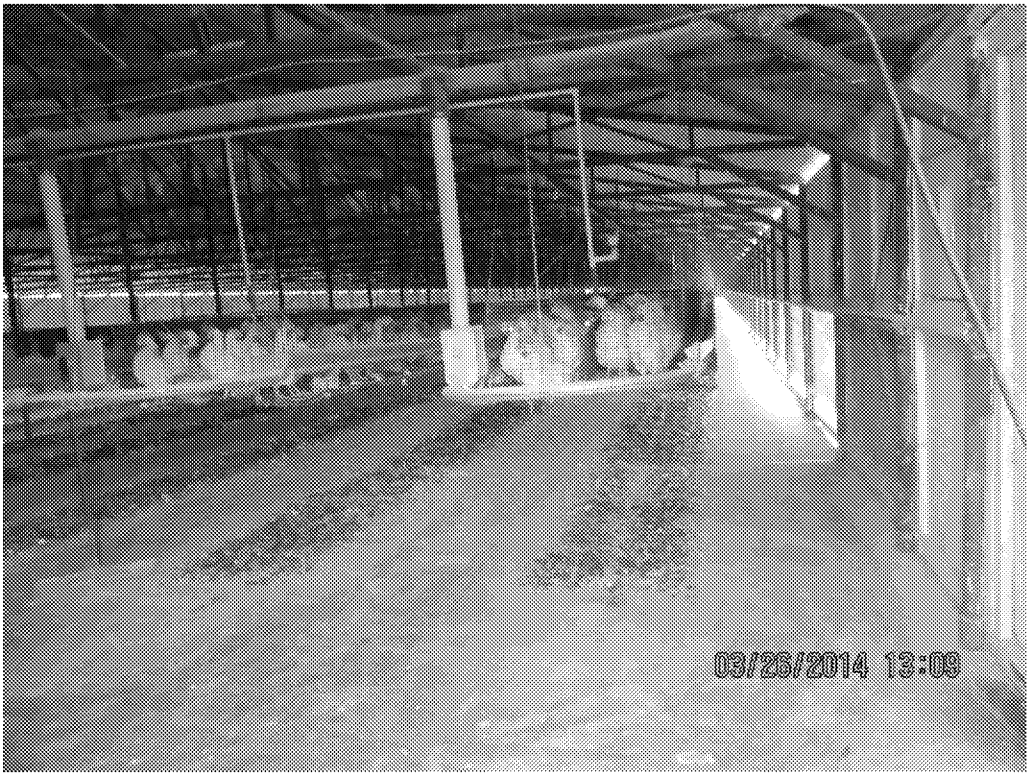

Photo 4 – View inside one of the hen houses. Manure falls to the floor and is scraped out by workers.

Armstrong Chicken Farms Clean Water Act inspection (__ of 88 photos)
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Photo 5 –Manure piles, located in the center of the facility. Manure is piled in rows to dry on a paved area. View is to the west. This image represents three photographs, stitched together.

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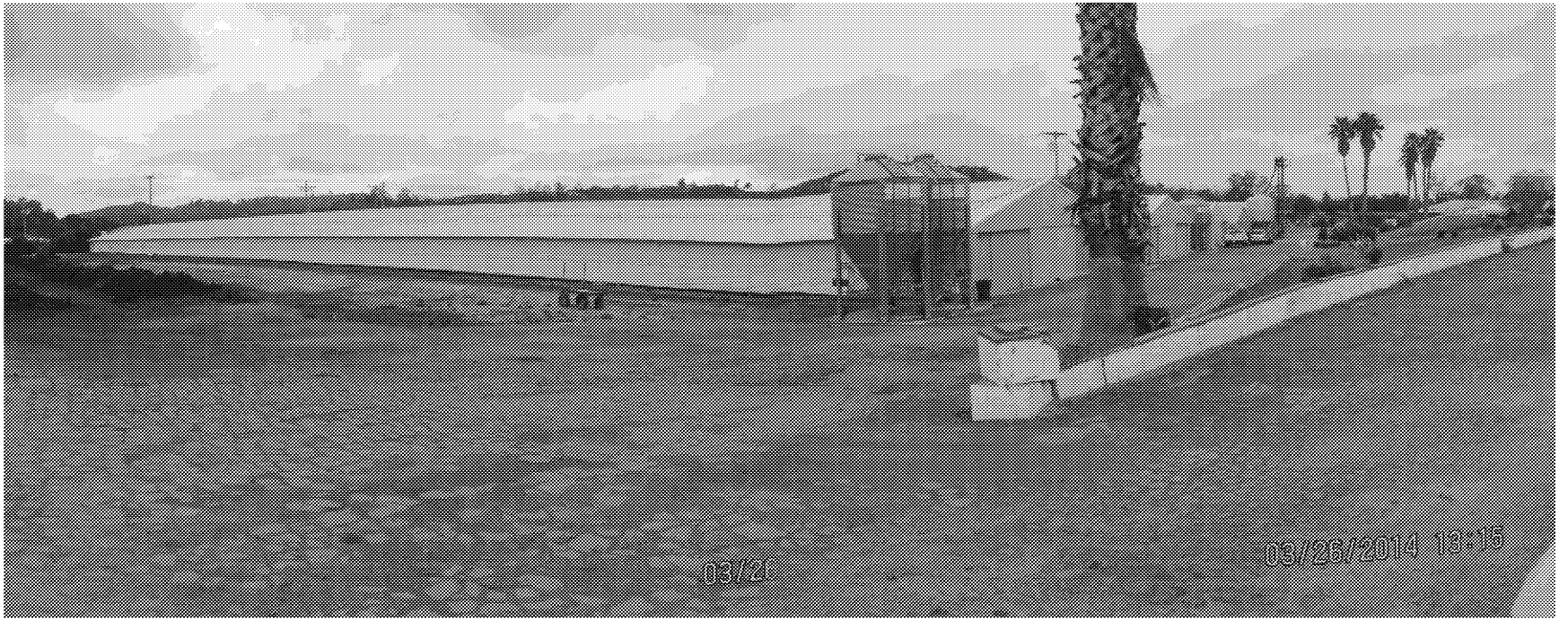

Photo 6 – View of hen houses to the north of the manure piles. View is to the northwest. There is an area between the manure piles and the hen house immediately to the north that is unpaved. This image represents two photographs stitched together.

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Armstrong Chicken Farms Clean Water Act inspection (__ of 88 photos)
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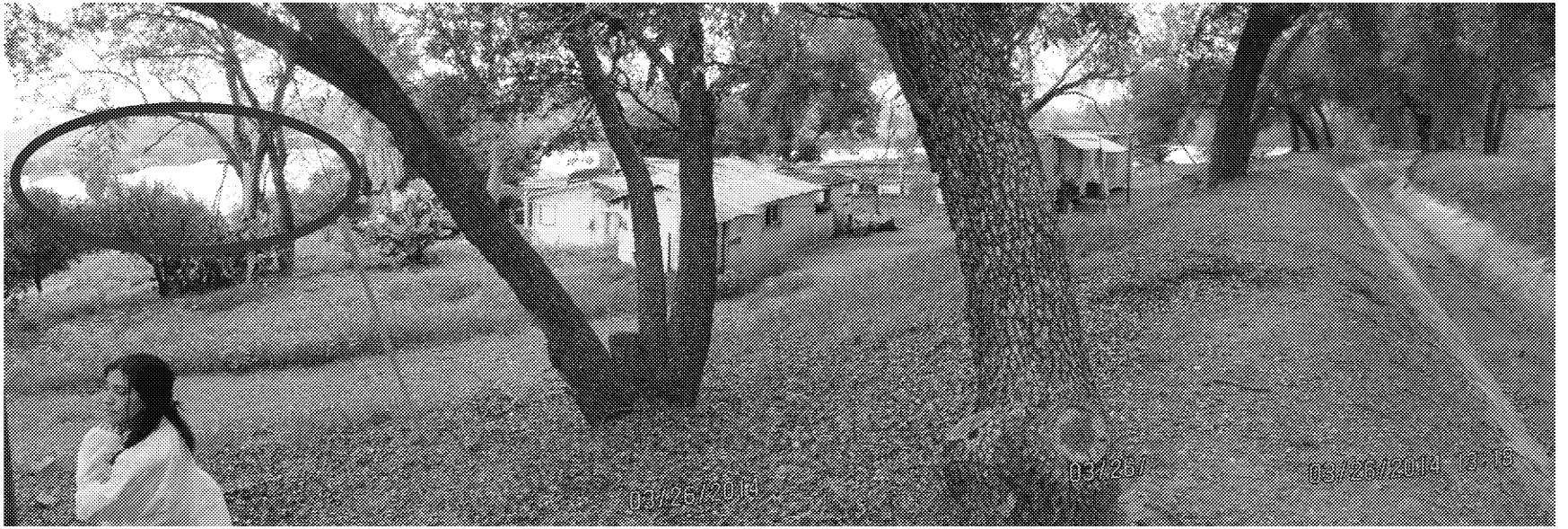

Photo 7 – View of canal running alongside and above the Armstrong Egg Farms facility. The canal is located uphill from the facility and does not appear to be able to receive flows from it. Circle marks hen houses downhill and to the west.

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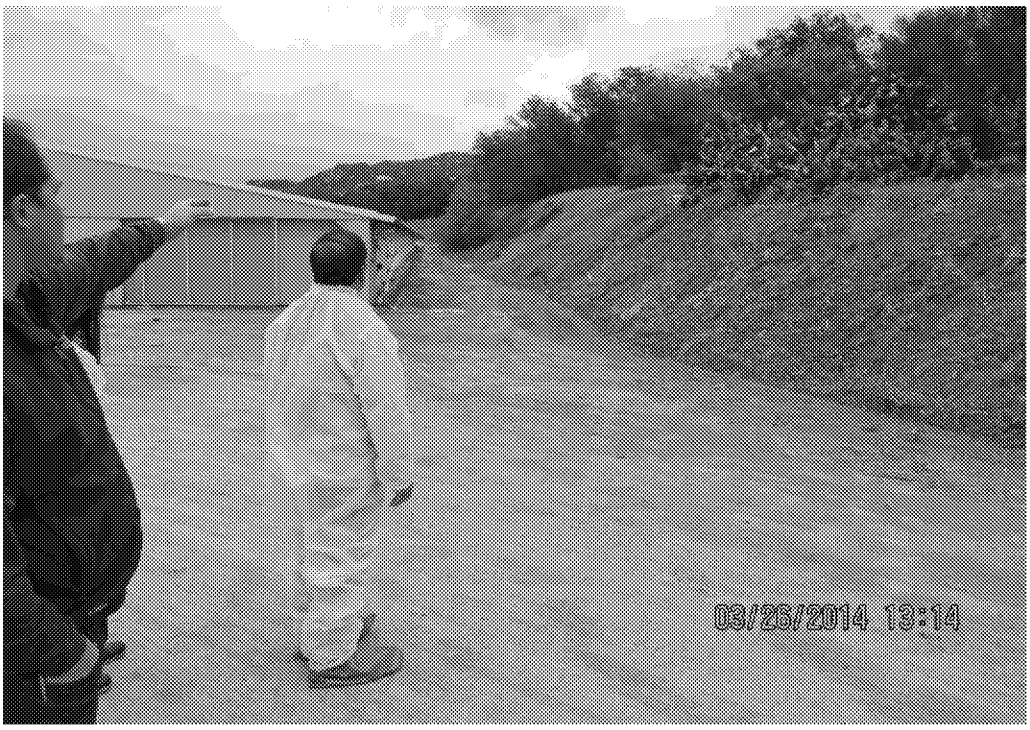

Photo 8 – View of the easternmost hen house adjacent to the canal in the previous photo. The earthen berm supports the western side of the canal. The bed of the canal lies above the level of the ground below.

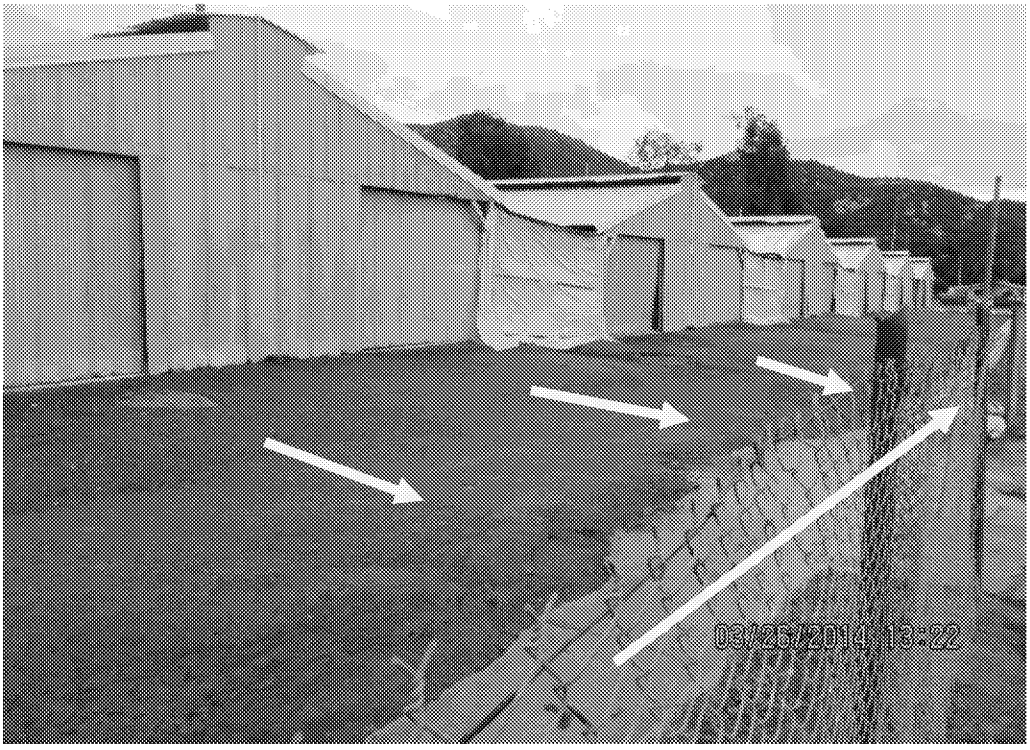

Photo 9 – Hen houses lined up in the southern portion of the facility. Arrows mark the likely direction of any stormwater flows, based on our observations of the topography and the operator's statements. Flow is downhill to the north, then west toward the roadway.

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Photo 10 – View of the area between two of the hen houses in the previous photograph. Each of these areas discharges via a small culvert to the paved area immediately north. There did not appear to be much, if any, waste (feathers or manure) accumulated in these areas.

Photo 11 – View of one of the small culverts between the hen houses in photograph 9.

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Photo 12 – Looking west along the curb in front of the hen houses in photos 9-11. Arrows show the direction of flow.

Photo 13 – Area between two hen houses graded to discharge in front of earthen berm. The berm can also be seen at the top of the previous photo.

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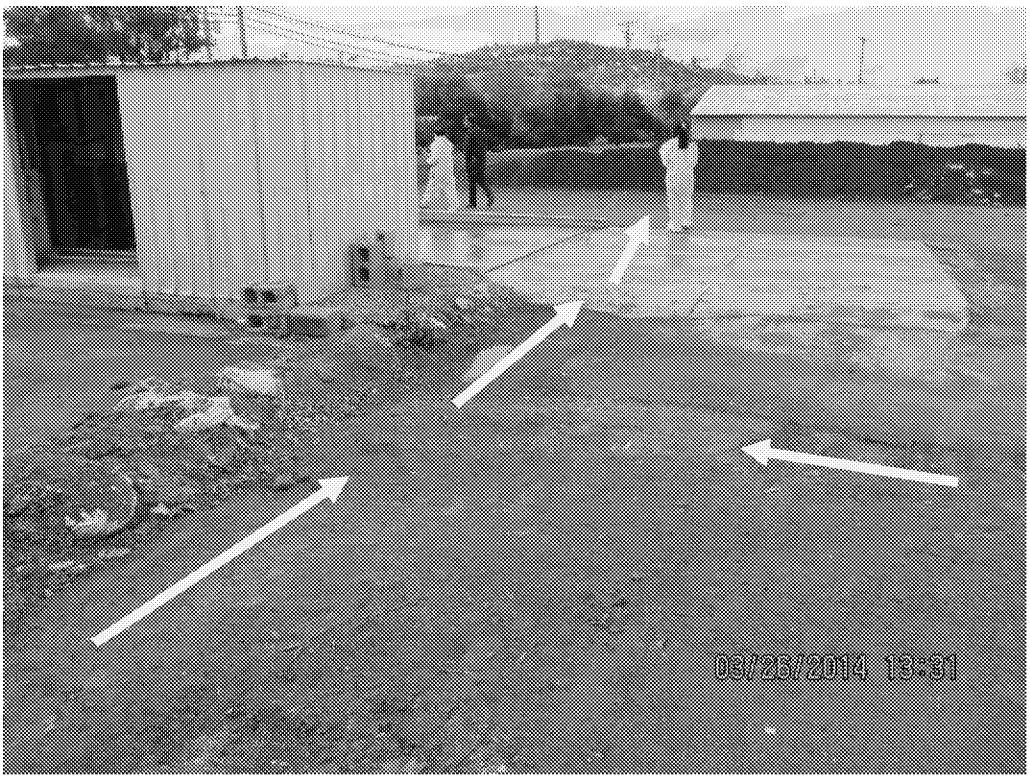

Photo 14 – View toward the northwest of the same earthen berm. It directs any flows from the hen houses in the south end of the facility across the pavement and toward the manure piles (see arrows).

Photo 15 – Ditch running along the west side of the southernmost hen houses. The culvert carries flows westbound, under North Lake Wohlford Rd.

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Photo 16 – Closer view of the manure piles stored in the center of the site. These were previously shows in Photos 5, 6 and 14.

Photo 17 – This unpaved area to the north of the manure piles contains manure runoff rills. The rills and topography show that the direction of the runoff is to the northwest, and then back onto the paved area along the western border of the facility.

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Photo 18 – View toward the north along the paved western border of the facility. According to Mr. Armstrong, the curb to the left keeps flows moving toward the discharge point near the NW corner. Arrows show reported direction of flow.

Photo 19 – View of the area between hen houses in the northwest quadrant of the facility.

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Photo 20 – View between the last two hen houses in the northwest quadrant of the facility. Areas are eroding, and there are feathers on the ground. On the left (marked) is a manure cleanout.

Photo 21 – Closer view of manure cleanout in previous photo.

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Photo 22 – Toward the end of the curb seen in Photo 18. Ahead, a blue conveyor belt is visible, loading manure from the cleanout in Photos 20 and 21 into the back of the red truck.

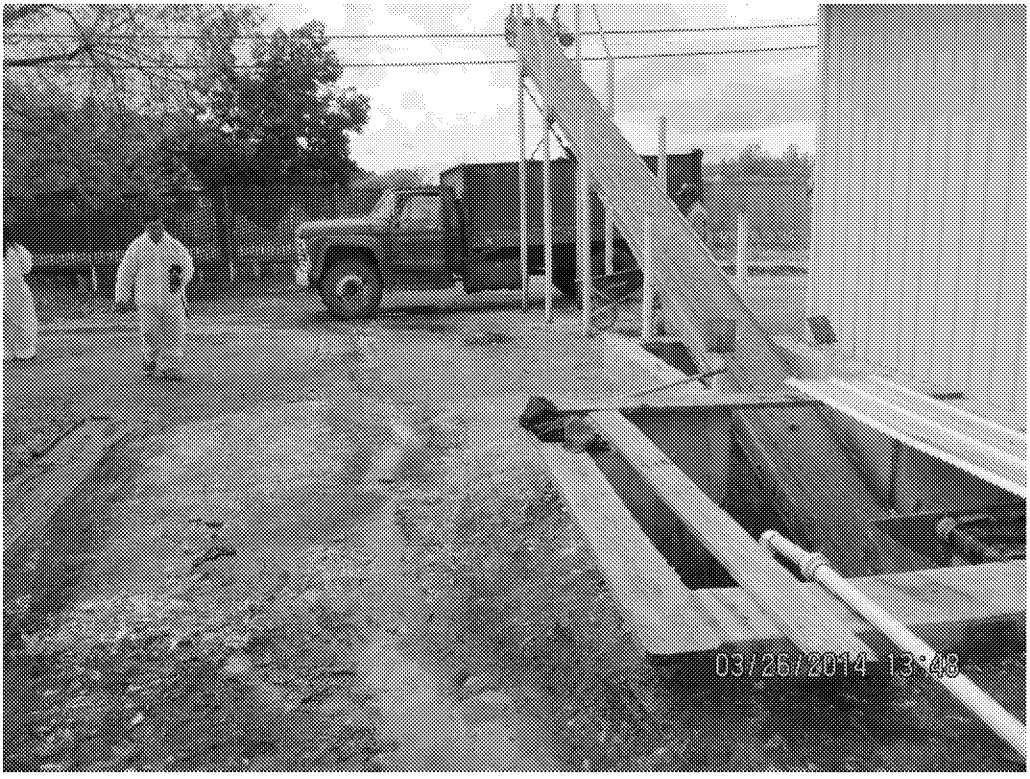

Photo 23 – View of conveyor belt unloading manure into the red truck in Photo 22. Manure is spilled on the pavement.

Armstrong Chicken Farms Clean Water Act inspection (__ of 88 photos)
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Photo 24 – Stitched photograph showing the curb along the western perimeter of the facility, leading to the main discharge point (circled). On the right is the red truck seen in Photos 22 and 23. This shows the relative distance between the conveyor belt and discharge point.

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Photo 25 – Closer view of discharge point seen in previous photo. A cement channel leads under the fence line to the west. Feathers and other debris has accumulated here.

Photo 26 – View through the fence of the cement channel, as it enters a culvert that crosses under North Lake Wohlford Rd.

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Photo 27 – Wider view of the discharge point. Mr. Armstrong said that this area is slated to become a retention pond (to prevent discharges), per an engineering plan drafted in 2011.

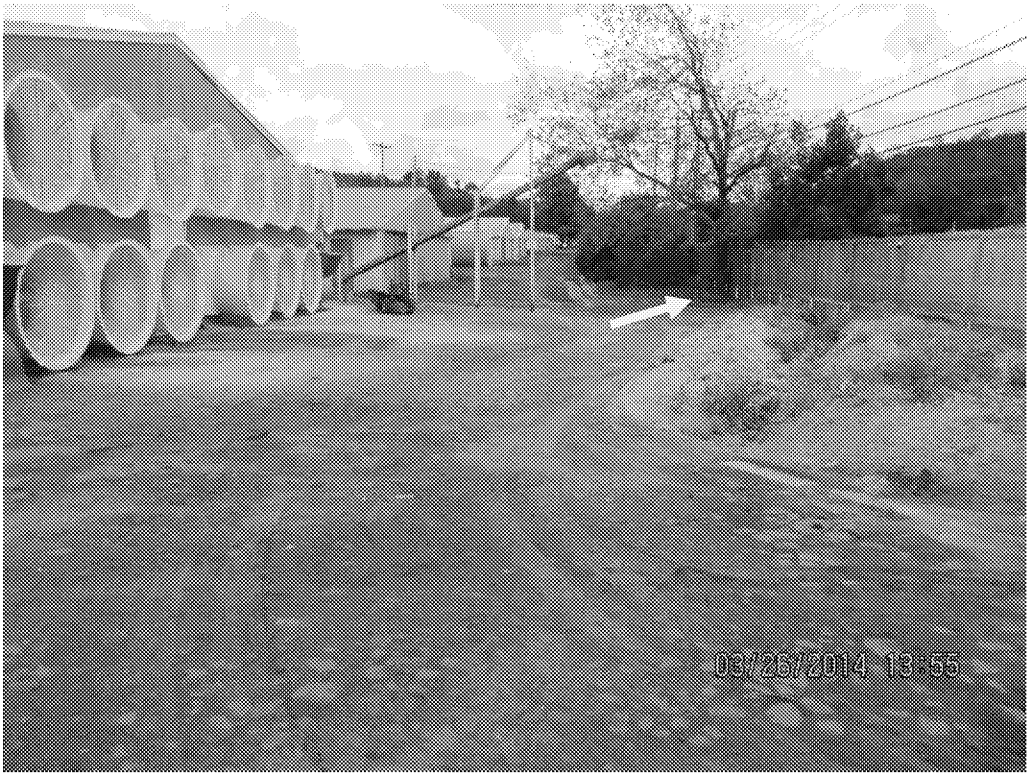

Photo 28 – Blowers airing out the largest hen house, at the NW corner of the facility. The light coloring on the ground is a coating of fine feathers. Discharge point is marked with an arrow.

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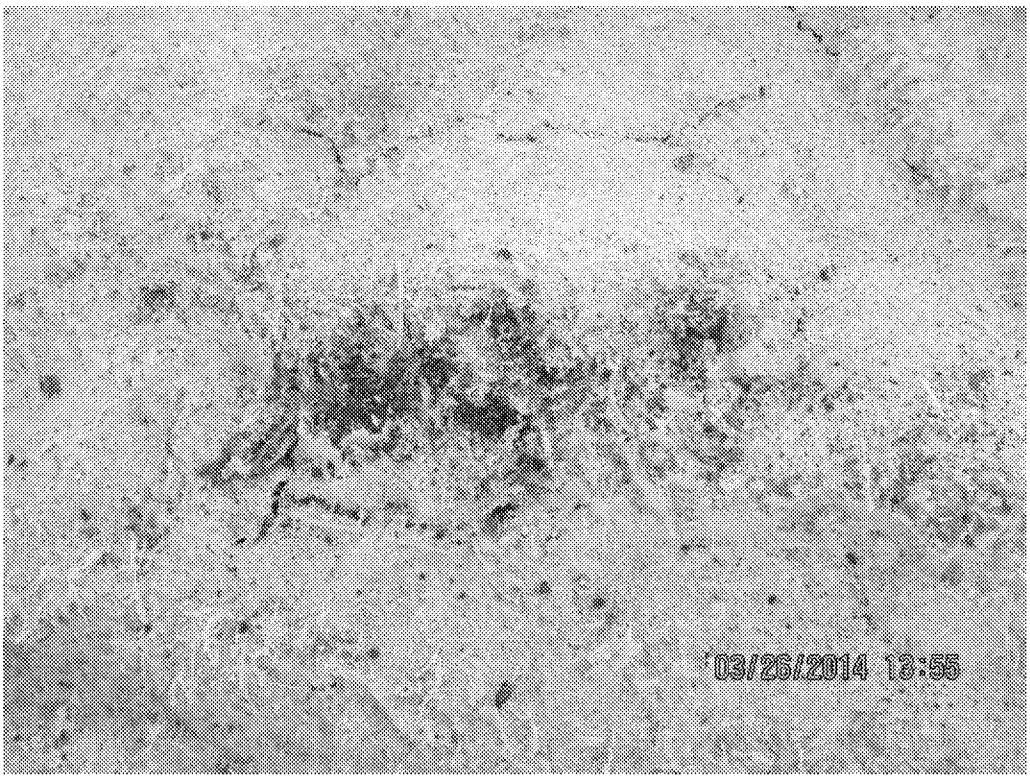

Photo 29 – Feathers coating the ground outside the hen house in the previous photo. Inspector Kristine Karlson kicked the surface of the coating to show the contrast with the darker ground underneath.

Photo 30 – View to the east of runoff channel alongside the north side of the hen house in Photo 28. Direction of flow, per Mr. Armstrong, is to the west and toward the discharge point (see arrow).

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Photo 31 – These pipes convey flows from the channel in the previous photo under the access road along the west side of the facility.

Photo 32 – Outlet of culvert seen in Photo 26. It discharges to the west, into a drainage channel to the west of North Lake Wohlford Rd. Mr. Armstrong said that he leases this property from the owner.

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Photo 33 – Water collected in the drainage channel seen in the previous photo. Direction of flow is to the north (yellow arrow). A red arrow marks the outlet of the culvert.

Photo 34 – Continuation of the channel seen in the previous two photos. The channel curves toward the west.

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Photo 35 – This area, immediately to the north of the main egg farm, is where Mr. Armstrong reported that he land applies manure. It was not clear where the land application area was. From the south side of the fence and via aerial photography, it appears manure is arranged in rows similar to those in the center of the egg farm.

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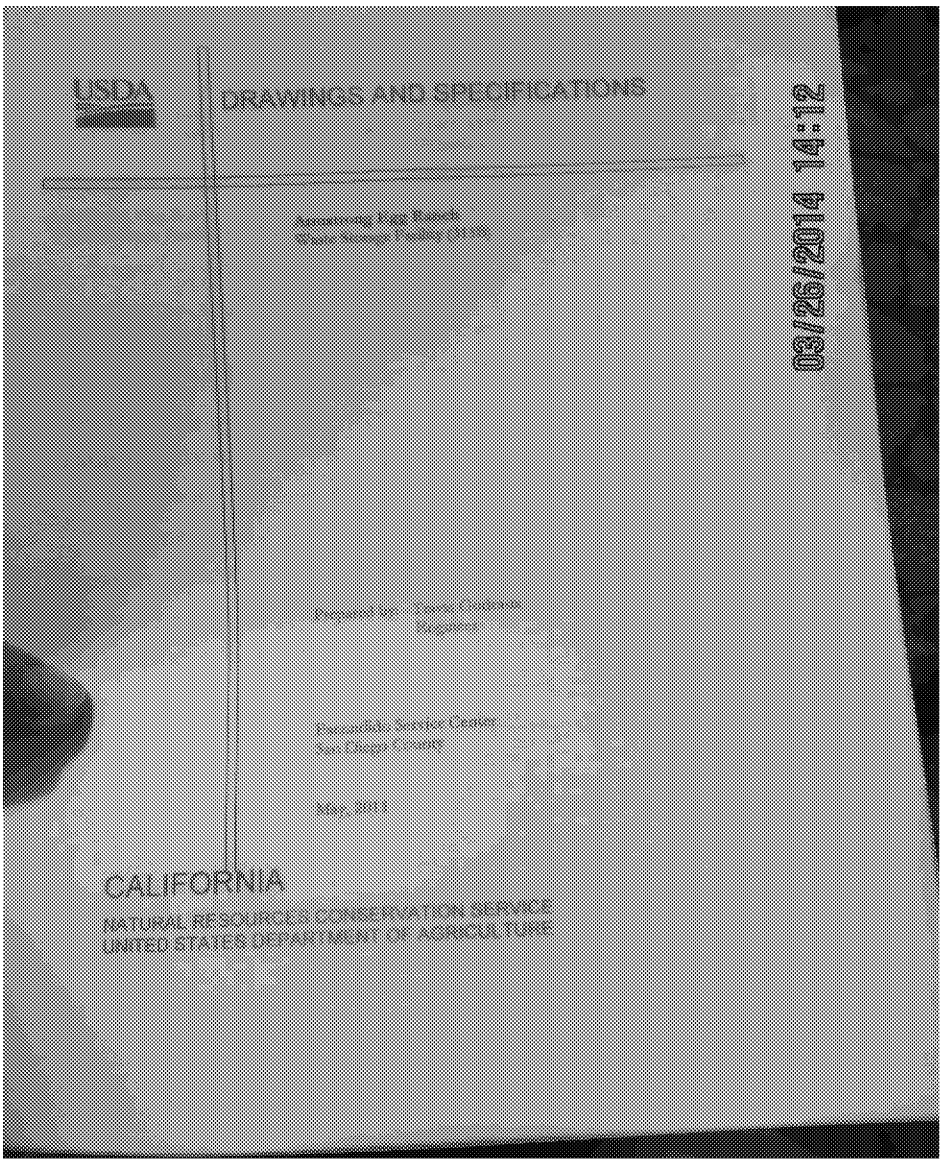

Photo 36 – Cover page of "Armstrong Egg Ranch Waste Storage Facility" Plan dated May 2011.