

**DEPARTMENT OF NATURAL RESOURCES**  
**ENVIRONMENTAL SERVICES DIVISION**  
**Field Office 3, Spencer**

**SITE SURVEY REPORT**

DATE: 08/13/13

TO: Suresh Kumar, WWES, WQB, ESD, DNR, Des Moines

FROM: Sheila Kenny

RE: Site Survey – Sunrise Farms (NPDES #7200802)

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**BACKGROUND**

Sunrise Farms operates an egg washing and breaking operation near Harris, Iowa. Process wastewater from their facility is stored in a 5-cell lagoon (2 aerated cells) and disposed of by land application. They currently have two approved land application areas.

On April 1, 2013, Sunrise Farms was issued a construction permit (CP-A2013-025) to expand their confinement feeding operation and install two new center pivot irrigation systems. With this expansion, they are also discontinuing irrigation on application area A immediately south of the lagoon, but will continue to utilize application area B. They also propose to add two new wastewater land application areas as follows:

Area C: SE ¼ Section 33, Allison Township, T99N-R39W, Osceola County, approximately 125.7ac

Area D: NE ¼ Section 33, Allison Township, T99N-R39W, Osceola County, approximately 146.5ac

**OBSERVATIONS**

On August 5, 2013, I met with Andrew Nesselth from Extended Ag (consultant), General Manager Terry Hudgens, and Farm Crop Manager Brett Young to conduct the site survey to determine if these sites meet all criteria required by Sections 21.1.1.2 and 21.2.1 of the Iowa Wastewater Facilities Design Standards. During the survey the following observations were made:

- These areas are not prone to flooding at a frequency greater than once every ten years.
- The wetted disposal areas are at least 300 feet from public use areas.
- There are two residences located along White Avenue in Section 33. Mr. Nesselth reported that both of these residences are also owned by Sunrise Farms. There are no other residences within 300 feet of these wetted disposal areas.
- The proximity of the proposed sites to property lines could not be determined at the time of this site survey; however, Mr. Nesselth reported that the irrigation equipment will have GPS capabilities and will be programmed to only cover the approved area. Mr. Nesselth and Mr. Hudgens were instructed to ensure that a 50-foot separation distance is maintained between the wetted disposal area and all property lines when programming the pivots.
- The wetted disposal areas are at least 300 feet from any continuous flowing stream or other physiographic feature that may provide direct connection to the ground water table.
- The wetted disposal areas are at least 400 feet from any existing potable water supply well.

- The wetted disposal areas are at least 1000 feet from any shallow public water supply well, at least 500 feet from any public land or impoundment, and over ½ mile from any public lake or impoundment used as a source of raw water by a potable water supply.
- Perimeter signs shall be posted along roads and public use areas with a minimum of one sign on each side of the disposal area. The perimeter distance between signs shall not exceed 500 feet, and all signs shall clearly identify the nature of the facility and advise against trespassing in letters not less than 2 inches high. Mr. Hudgens reported that the signs have been acquired and shall be posted prior to commencement of any irrigation on these sites.

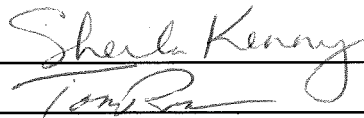
#### CONCLUSIONS & RECOMMENDATIONS

It is concluded that Areas C and D for land application of wastewater meet or exceed all separation distances required by Sections 21.1.1.2 and 21.2.1 of the Iowa Wastewater Facilities Design Standards. Approval of this site for wastewater land application is recommended with the following conditions:

- A 50-foot radius must be maintained between the wetted disposal area and all property lines.
- Proper perimeter signs must be posted.


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INSPECTOR: Sheila Kenny



DATE: 08/06/2013

REVIEWER: Tom Roos



DATE: 08/09/2013