

Nebraska Department of Environment and Energy (NDEE)

MEMORANDUM

To: File

From: Hillary Stoll

Date: February 19, 2021

RE: AltEn, LLC

NDEE ID: 84069

Program ID: WWF, PCS NE0137634

Subject: Site Visit Report to Observe the Lagoons

Summary of Site Visit and Information Acquired During Visit:

Jim Borovich and I, Hillary Stoll, arrived at the AltEn, LLC facility in Mead, Nebraska at about 9:30 AM on February 19, 2021. The weather was sunny with a temperature of about 15 degrees Fahrenheit. We asked to speak with Mr. Ken Peterson. We stated that we were conducting a site visit to document cleanup of the spill that occurred last Friday, February 12, 2021, and to observe both the three-celled wastewater lagoon system and the emergency overflow lagoon that is east of the two digesters. The exact depth of the wastewater lagoons could not be determined due to snow and safety concerns, but photos are attached. The facility was pumping wastewater from the emergency overflow lagoon into the southeast corner of the Northwest lagoon, which is part of the three-celled wastewater lagoon system. According to Mr. Peterson, the facility had pumped approximately one million gallons of wastewater from the emergency overflow lagoon into the Northwest lagoon, as of approximately 9:30 AM when we spoke with him upon arrival. The facility was continuing to pump wastewater from the emergency overflow lagoon into the Northwest lagoon cell. The facility was pumping wastewater from the emergency overflow lagoon into the Northwest lagoon cell to decrease the volume of wastewater in the emergency overflow lagoon so that they could pump wastewater from the digester spill into the emergency overflow lagoon. The emergency overflow lagoon is the closest lagoon to the spill. The design values for the emergency overflow lagoon based on plans and specifications approved on May 15, 2006 (WWF Construction Permit 05-0158, NDEE Document ID 20060034267) are included in Table 1. I departed the facility at about 11:45 AM.



Table 1. Design Information for the Emergency Overflow Lagoon (NDEE Document ID 20060034267)

Top of Berm Elevation	111.0
Freeboard (ft)	1.5
Maximum Water Depth (ft)	14.0 (Elevation = 109.5)
Volume Below Freeboard (gallons)	6,031,000

Attachments

- 1) Photos**
- 2) Map**

Photos

Note: Not all photos taken at the site are included in this memorandum.



Photo 1

Date Taken: February 19, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Northeast

Description: Northwest corner of the Emergency Overflow lagoon.



Photo 2

Date Taken: February 19, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: East

Description: Overview of the Emergency Overflow lagoon.



Photo 3

Date Taken: February 19, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Southeast

Description: Southwest corner of the Emergency Overflow lagoon. A black suction pipe for a pump (Photo 4) is observed.

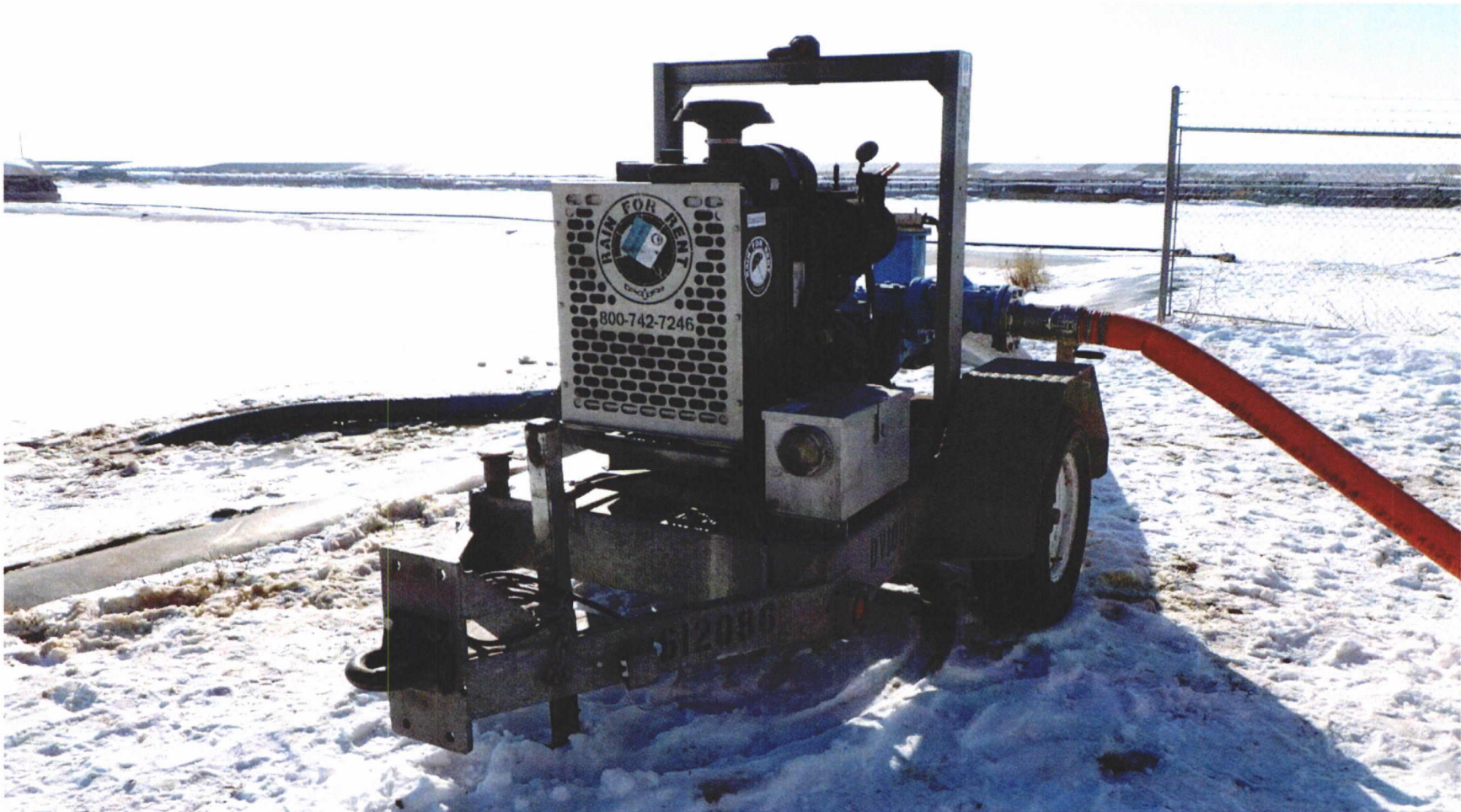


Photo 4

Date Taken: February 19, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Southeast

Description: Pump that is being used to pump wastewater from the Emergency Overflow lagoon into the Northwest lagoon (see Photo 5).



Photo 5

Date Taken: February 19, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Southwest

Description: Southeast corner of the Northwest lagoon. The orange hose conveys wastewater that is being pumped into the Northwest lagoon from the Emergency Overflow lagoon.



Photo 6

Date Taken: February 19, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Northwest

Description: Southwest corner of the Northwest lagoon. The pipe shown is the influent pipe used to convey wastewater from the facility. There was no evidence of wastewater discharging into the lagoon from this pipe since the facility is currently shutdown and not producing wastewater.



Photo 7

Date Taken: February 19, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Northwest

Description: Depth marker near the southwest corner of the Northwest lagoon. The top number is "20" and the bottom number is "19".



Photo 8

Date Taken: February 19, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: North

Description: Overflow pipe from the Northwest lagoon (left) to the Northeast lagoon (right).



Photo 9

Date Taken: February 19, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Northwest

Description: Overflow pipe exiting the Northwest lagoon (flows to Northeast lagoon – see Photos 8, 11, and 12).



Photo 10

Date Taken: February 19, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Southeast

Description: Overflow pipe exiting the Northwest lagoon (flows to Northeast lagoon – see Photos 8, 11, and 12).



Photo 11

Date Taken: February 19, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Southwest

Description: Overflow pipe entering the Northeast lagoon from the Northwest lagoon.



Photo 12

Date Taken: February 19, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Southeast

Description: Overflow pipe entering the Northeast lagoon from the Northwest lagoon.

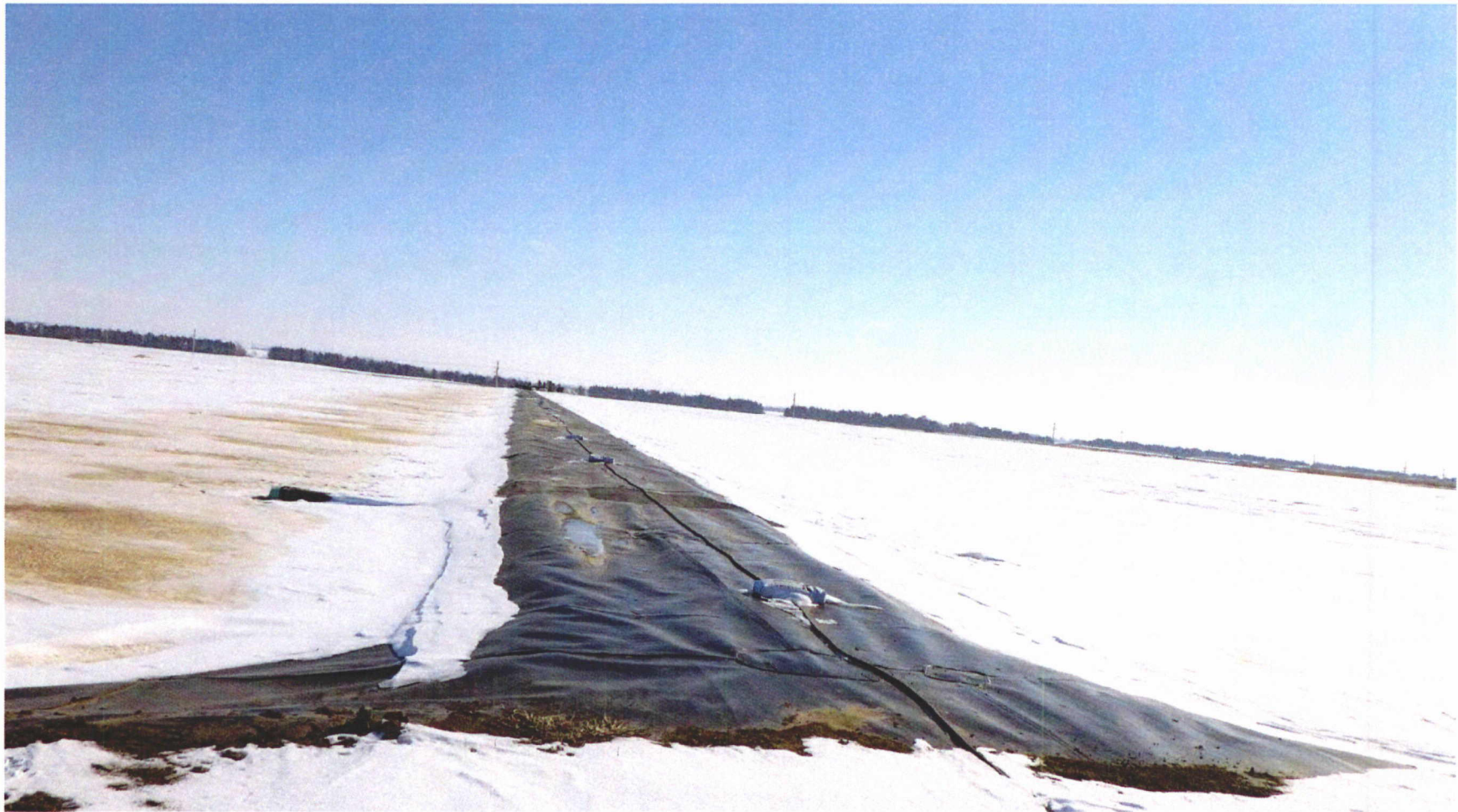


Photo 13

Date Taken: February 19, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: East

Description: Overflow pipe from the Northeast lagoon (left) to the Southeast lagoon (right).



Photo 14

Date Taken: February 19, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: East

Description: Overflow pipe from the Northeast lagoon (left) to the Southeast lagoon (right).



Photo 15

Date Taken: February 19, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Northeast

Description: Overflow pipe from the Northeast lagoon (left) entering the Southeast lagoon (right). The pipe in the Southeast lagoon is mostly covered with ice/snow.



Photo 16

Date Taken: February 19, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Southwest

Description: Southeast corner of the Northeast lagoon. The depth marker for the Northeast lagoon is somewhat visible. The top number is "22". The "1" from "21" is barely visible under the snow.



Photo 17

Date Taken: February 19, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Northwest

Description: Southeast corner of the Northeast lagoon. The depth marker for the Northeast lagoon is somewhat visible.

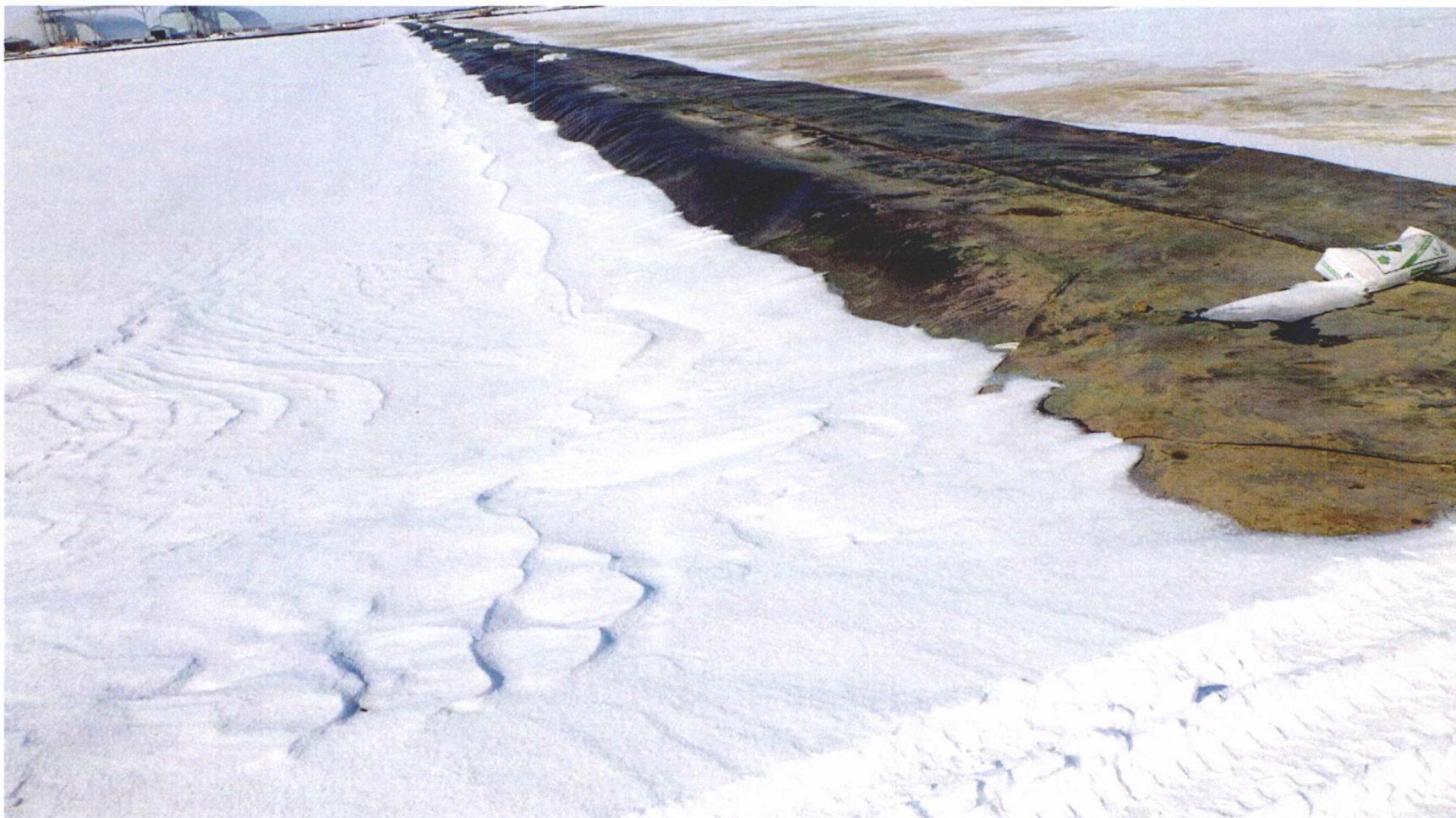


Photo 18

Date Taken: February 19, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Northwest

Description: Northeast corner of the Southeast lagoon. The depth marker is not visible due to the snow.



Photo 19

Date Taken: February 19, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Northwest

Description: Overview of the Southeast lagoon (left) and the Northeast lagoon (right).



Photo 20

Date Taken: February 19, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: N/A

Description: Insulation and heating lamp in place to help prevent a pipe on the North digester (currently full – not part of the spill) from freezing.

Map

