

MEMORANDUM

DATE: June 4, 2021
TO: AltEn, LLC.
THRU: Brad Pracheil
FROM: Dane Pauley
RE: NPDES Site Visit, Aerial Photography

FACILITY ID: 84069

On June 6, 2021 at approximately 0945 hours, Dane Pauley, Rebekah Simmons and Jason Windhorst arrived at AltEn for a scheduled drone flight over their property. We signed in at the Clean Harbors office and checked the AltEn office and found no one.

All flights were piloted by Dane Pauley after performing our preflight check of the equipment. The first flight started at 0955 hours near the middle of the property by the lagoons which allowed for the observers to maintain a visual line of sight during the entirety of the flight. Photography began at the corner of the 3 lagoon near the north side of the property. A 360 video was recorded here at 200 ft AGL and 390 ft AGL.

The second flight started at 1045 hours from the center of the Poseidon tanks. A 360 video was recorded here at 200 ft AGL and 390 ft AGL. Pictures were taken at points of concern.

The third flight started at 1140 hours from the west side of the property near the entrance. A 360 video was recorded here at 200 ft AGL and 390 ft AGL.

A total of 3 missions were flown that day covering the wet cake piles, lagoons and large holding tanks. All flights were recorded in paper flight logs and on the Kittyhawk application. NDEE staff concluded the flights and left AltEn property at approximately 1200 hours.

Video Log

DJI_0208 – Center of Lagoons, 360 video at 200 ft AGL
209 - Center of Lagoons, 360 video at 390 ft AGL
221 – West Side of lagoons, 360 video at 200 ft AGL
228 – Middle of Poseidon holding tanks, 360 video at 200 ft AGL
229 – Middle of Poseidon holding tanks, 360 video at 390 ft AGL
236 – East Poseidon holding tank, 360 video looking at inside of tank
237 – Middle Poseidon holding tank - 360 video looking at inside of tank
238 – West Poseidon holding tank - 360 video looking at inside of tank
239 – West side of the property by entrance, 360 video at 200 AGL
240 – West side of the property by entrance, 360 video at 390 AGL

Picture Log

DJI_210 – West side of southeast lagoon, looking west
211 - West side of southeast lagoon, looking northwest
212 - West side of southeast lagoon, looking west
213 - West side of southeast lagoon, looking west
214 - West side of southeast lagoon, looking northeast
215 – Southwest corner of southeast lagoon, looking southwest
216 – Southwest corner of southeast lagoon, looking southwest
217 - Southwest corner of southeast lagoon, looking northwest
218 – Southwest corner of southeast lagoon, looking north
219 – West side of northwest lagoon, looking northwest
220 – West side of northwest lagoon, looking west
222 – Clarifier looking northeast
223 - Clarifier looking northeast



- 224 – West Poseidon holding tank facing south, looking down
- 225 – West Poseidon holding tank facing north, looking down
- 226 – Middle Poseidon holding tank facing northeast, looking down
- 227 – East Poseidon holding tank facing east, looking down
- 230 – Above middle Poseidon holding tank, looking northwest
- 231 – Above middle Poseidon holding tank, looking east
- 232 – East of Poseidon holding tanks, looking west
- 233 – East of Poseidon holding tanks, looking west
- 234 – East of Poseidon holding tanks, looking northwest
- 235 – East of Poseidon holding tanks, looking west
- 241 – West side of property by entrance, looking northeast
- 242 – West side of property by entrance, looking east
- 243 – West side of property by entrance, looking northeast



















































