Message

From: Buell, Thomas [thomas.buell@nebraska.gov]
Sent: 3/18/2021 7:02:54 PM
To: Cozad, David [Cozad.David@epa.gov]
Subject: FW: AltEn Lagoon Information
Attachments: StageStorageTables.pdf

Tom Buell
DIVISION ADMINISTRATOR, MONITORING AND REMEDIATION DIVISION

Nebraska Department of Environment and Energy
P.O. Box 98922
Lincoln, Nebraska 68509-8922

DIRECT: (402) 471-4270 / MAIN OFFICE (402) 471-2186

From: Buell, Thomas
Sent: Thursday, March 18, 2021 8:59 AM
To: Cozad, David <Cozad.David@epa.gov>
Cc: Bruno, Jodi <Bruno.Jodi@epa.gov>
Subject: FW: AltEn Lagoon Information

David:
Please see the email below. Please let me know if this helps.

Thanks,
Tom

Tom Buell
DIVISION ADMINISTRATOR, MONITORING AND REMEDIATION DIVISION

Nebraska Department of Environment and Energy
P.O. Box 98922
Lincoln, Nebraska 68509-8922

DIRECT: (402) 471-4270 / MAIN OFFICE (402) 471-2186

From: Stoll, Hillary <Hillary.Stoll@nebraska.gov>
Sent: Thursday, March 18, 2021 8:48 AM
To: Buell, Thomas <thomas.buell@nebraska.gov>
Subject: AltEn Lagoon Information

Northwest Cell: Dimensions 579' x 960' (12.5 max water surface area)
Northeast Cell: Dimensions 630' x 768' (11.0 max water surface area)
Southeast Cell: Dimensions 630' x 768' (11.0 max water surface area)

Design freeboard for Northwest Cell: 2.1 feet
Design freeboard for Northeast Cell: 3.0 feet
Design freeboard for Southeast Cell: 3.0 feet

I've attached the plans and specifications for the newest addition (Northwest Cell). This also includes one set of data for the raw influent wastewater:
BOD: 2,600 mg/L
TKN: 2,410 mg/L
Ammonia: 1,120 mg/L
TSS: 1,340 mg/L
Phosphorus: 1,380 mg/L

I've also included the stage-storage tables. These make calculating the volume that needs to be removed to get to freeboard very simple. I think Mark got updated photos of the lagoon levels yesterday.

Thanks,

Hillary Stoll

Environmental Engineer

Permitting & Engineering Division

Nebraska Department of Environment and Energy

P.O. Box 98922

Lincoln, NE 68509-8922

Main Office: 402-471-2186 |Direct: 402-471–4252

Hillary.Stoll@nebraska.gov | http://dee.ne.gov