	Grand Tower Energy Center Closed CCR Impoundment Quarterly Inspection Form	Date: 11/29/2023 Time: 11:45-12:05
		Name: Marshall Arendell (Inspector)
Weather:		
Temperature:		
45 deg. F		
⊠ Sunny	Observations:	
□ Cloudy	⊠ Erosion / Gullies	
□ Raining	Cracking / Sloughing	
□ Other	🛛 Ponding / Damp Area	as
	□ No Problems Identifie	ed
	─────────────────────────────────────	rowth
Conditions Limiting Visibili	ty:	
□ Snow Cover	-	
□ Vegetation		
⊠ None		
□ Other		
ERM onsite for the Q4 20	23 inspection of the CCR impoundment and gro	oundwater sampling event.
Repairs to the United State	es Army Corps of Engineers (USACE) and GTEC	levees continue to hold, and
successful revegetation of	levee face continues to progress.	
<ul> <li>Erosion noted across north</li> </ul>	, west, and southern CCR impoundment cap face	es up to 10" deep. This is an
incroses from OII door water	d in provious inspection events	· · ·
increase from 9° deep hote		
<ul> <li>Ponding continues to be not</li> </ul>	ted in the SW corner of the basin near the outfall	albeit considerably reduced
compared to Q3 2023 obse	ervations.	
The impoundment cap was	mowed during Q3 2023 and found to be in gene	rally good condition.
The inspector recommender	s continued treatment of woody growth within the	riprap on the impoundment
cap with appropriate man	agement methods such as brushhogging, mow	ring, cutting, herbicide
applications, and the filling	g of the erosional channels noted above.	
	Please see observation locations on	

figure on the following page.

#### **Observation Locations Map**



# Grand Tower Energy Center Q4 2023 Closed CCR Impoundment Cap Inspection

Repairs to the Fenceline and Levee area on the SE Side of Closed CCR Impoundment Cap



Levee has successfully revegetated since repairs were initiated during 2022.

Facing south along the repaired fence-line, riprap, and levee area.

Facing northeast along the repaired fence-line, riprap, and levee area.

### Woody Growth Observations



Facing southwest towards impoundment cap.

Dead/herbicide treated woody vegetation noted within riprap up to 1" diameter. Limited amount of live woody growth remains.

Facing northeast towards impoundment cap. November 27<sup>th</sup>, 2023, at 11:33:21 AM





Facing east away from impoundment cap.

## Minor Ponding in the SW Corner of Site Basin Near the Outfall



Minor ponded area in southwest corner of basin near the outfall, as viewed from mowed impoundment cap. Note that ponding is much less than that noted in Q3 2023.

Note: Mississippi River backwater enters the GTEC CCR Impoundment Basin when the river level gage operated by the U.S. Army Corps of Engineers at Grand Tower, IL reaches a stage of approximately 27 ft.

## **Erosional Channel Observations**





Erosion from western side of impoundment cap.