

# Beneficial Sand Use Program Design Plan

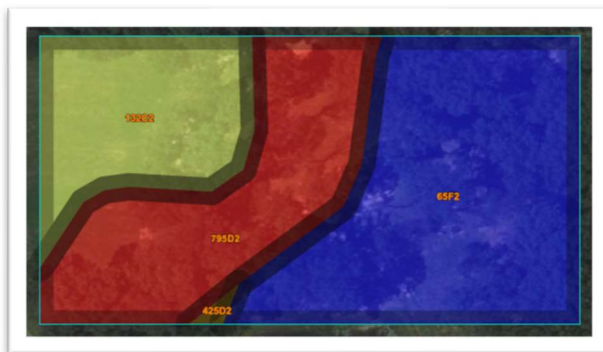
## Keokuk Steel Castings – Leon Ewart Fill Project

### 2024

#### Project Scope:

Keokuk Steel Castings is providing foundry sand to level 1 acre of property for Leon Ewart at 3534 Hwy. 218, Keokuk Iowa 52632.

- Project final grades and slopes
  - The final grade upon completion of fill activities will be a 2% to 5% slope.
  - The site will be leveled with a slight slope (2%-5%) as it is being filled to prevent ponding of water.
- Proposed fill progression
  - Two to five feet of clean fill will be added as necessary (see table below) to maintain the minimum of five feet of separation between the water table and the beneficial fill.



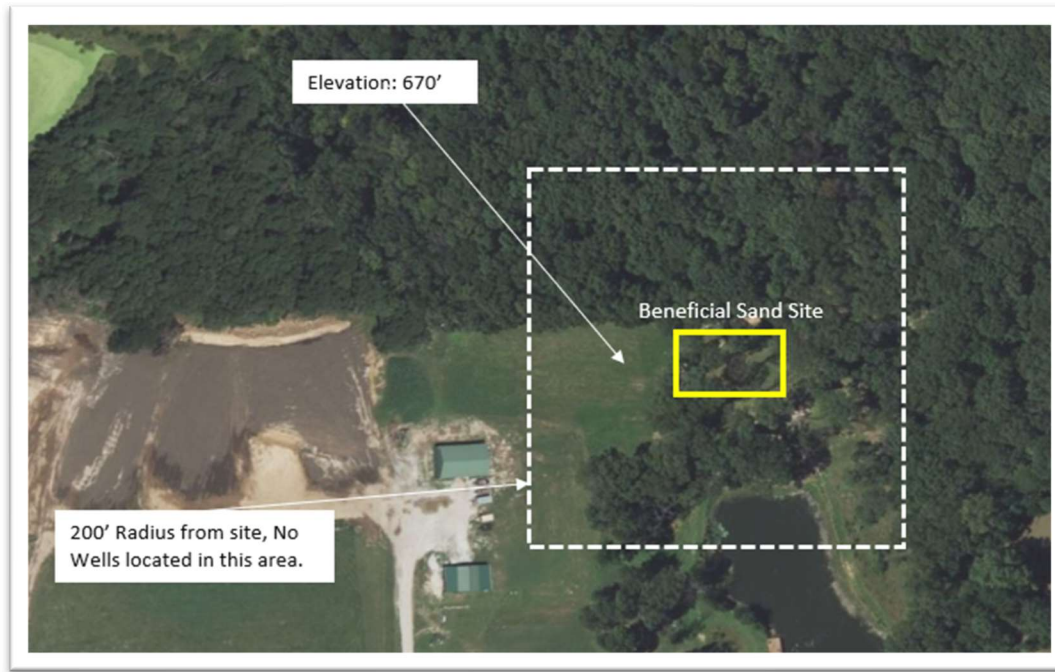
- 6,000 tons will be placed on the site during the 2<sup>nd</sup> quarter of 2024. Another 6,000 tons will be placed on the site during the 4<sup>th</sup> quarter of 2024. 12,000 total tons will be hauled to the site in 2025 during the 2<sup>nd</sup> and 4<sup>th</sup> quarters.
- Total estimated fill is 24,000 tons.
- December 2025 is the estimated completion date.

- Fill boundaries.

- A site map to delineate the project fill boundaries is shown below.



- Identification and distances from local receptors
  - See below Site Map



- Final cap design and/or vegetative cover
  - The final cap will include topsoil that will be seeded down for hay. Part of this area may be used for structures in future.