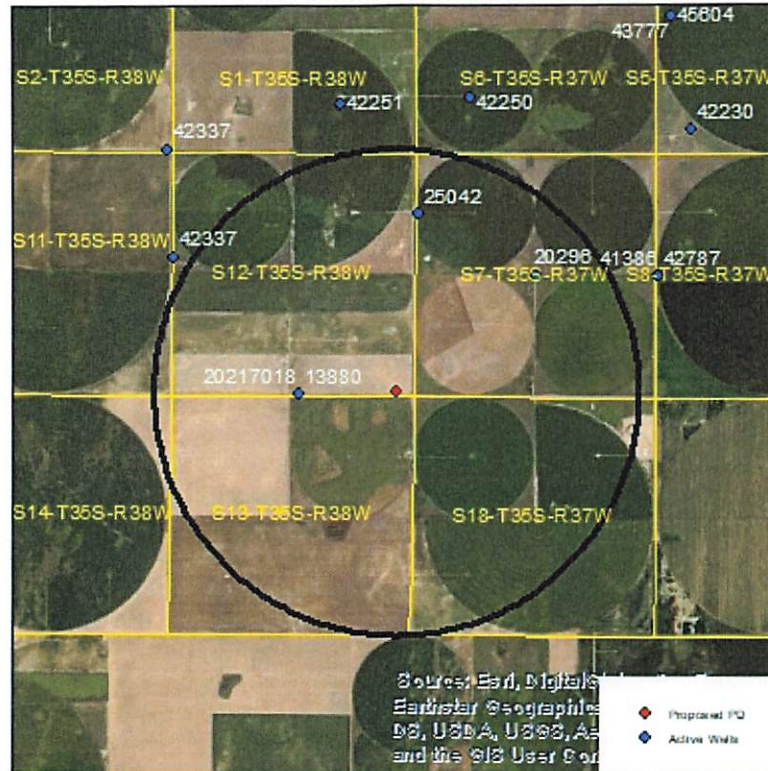


## Evaluation of proposed move for Water Right No. 13880

Proposed: Move water right no. 13880 to a new well location, a distance of 2,142 ft to the east.



Wells within 1 mile: 25042 and 20296.

The saturated thickness at the proposed well location is estimated to be 309 ft, based upon the GMD3 model. For saturated thickness greater than 200 ft, the drawdown allowance is 4.0 ft.

**50 year Theis Analysis:** The following values were used to run the analysis:

$S = 0.1954$ ,  $T = 6344 \text{ ft}^2/\text{day}$ ,  $tp_{\text{current}} = 116 \text{ days}$  (based on average use and observed rate),  $Q_{\text{current}} = 750 \text{ gpm}$  (based on 2021 water use report),  $tp_{\text{proposed}} = 105 \text{ days}$ ,  $Q_{\text{proposed}} = 1210 \text{ gpm}$

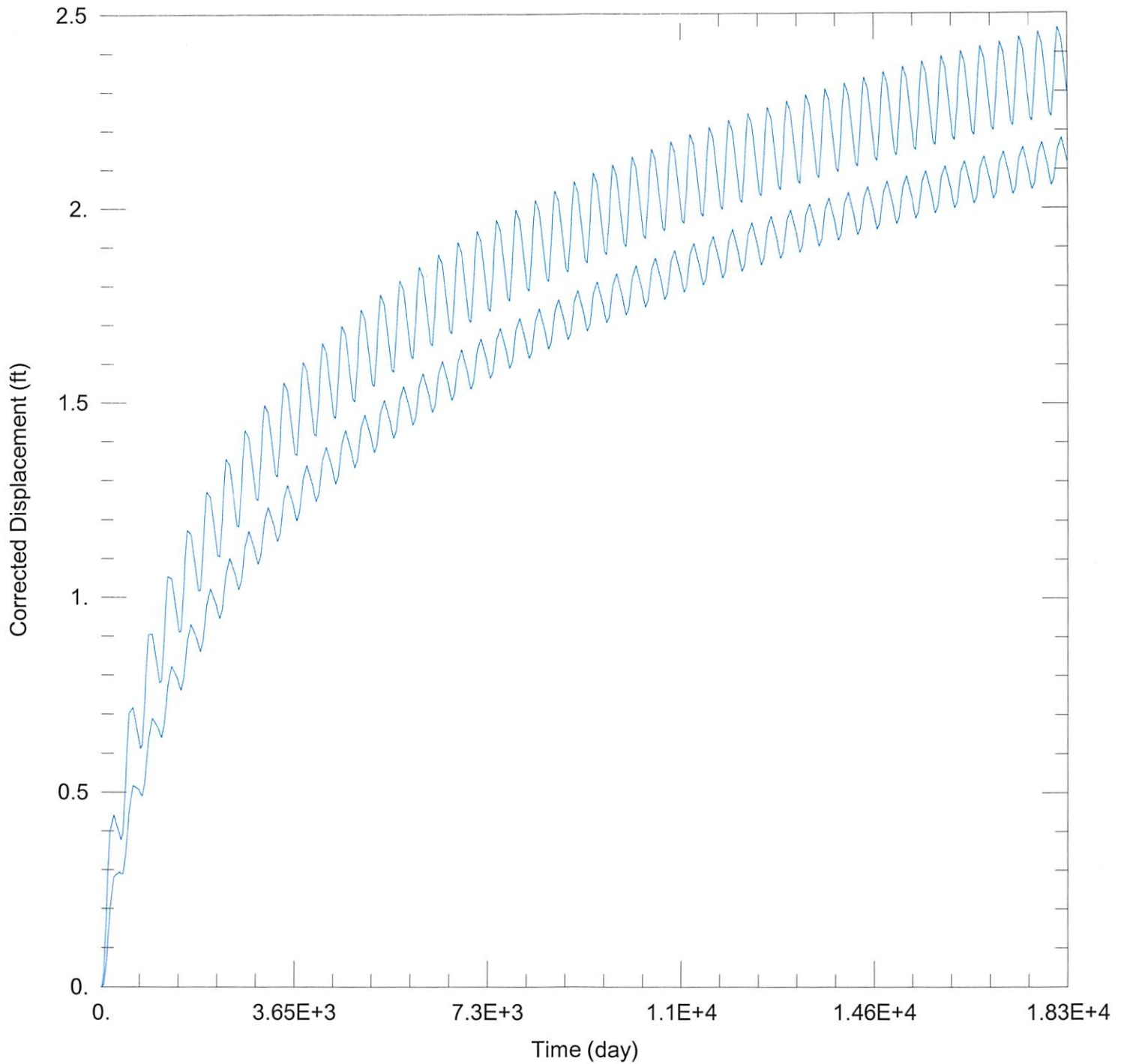
Theis drawdowns were calculated as follows:

25042:	Drawdown from current location = 2.46 ft
	Drawdown from proposed location = 4.08 ft
	Net drawdown = <b>1.6 ft</b>
20296:	Drawdown from current location = 2.18 ft
	Drawdown from proposed location = 4.04 ft
	Net drawdown = <b>1.9 ft</b>

Net drawdown does not exceed the drawdown allowance of 4.0 ft for any well within 1 mile of the proposed location. Therefore, critical well analysis is not necessary.

**Conclusion:**

The proposed move is likely to create minimal effects on neighboring wells and appears unlikely to cause impairment. Any concerned neighbors should contact GMD3 at (620) 275-7147 or the Division of Water Resources at (620) 276-2901.



### WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2022\_moves\13880\13880 Current.aqt

Date: 09/12/22

Time: 14:57:03

### PROJECT INFORMATION

Company: GMD 3

Project: 13880

Location: Stevens County

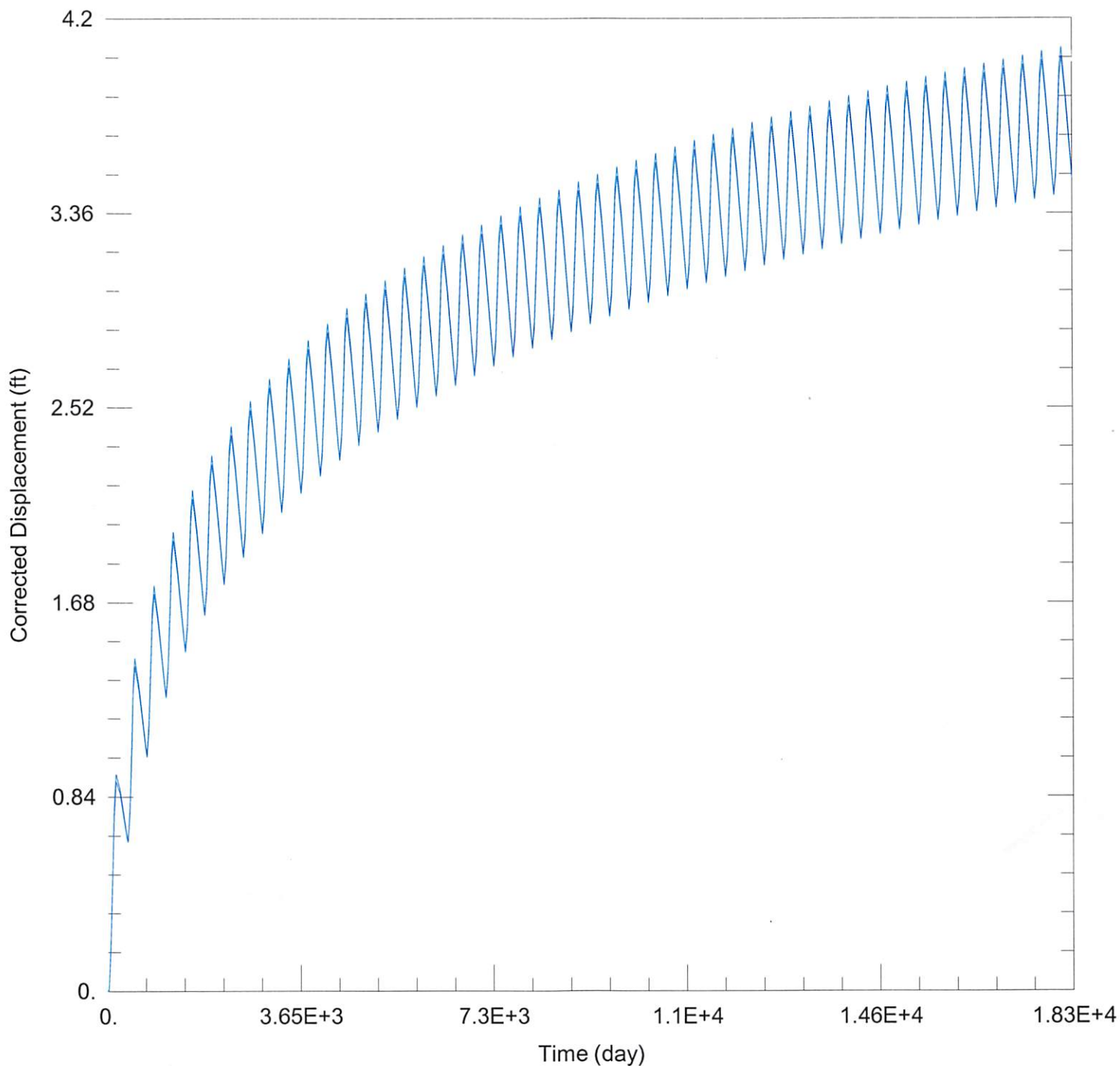
### WELL DATA

#### Pumping Wells

Well Name	X (ft)	Y (ft)
13880	-175715	49848

#### Observation Wells

Well Name	X (ft)	Y (ft)
□ 13880	-175715	49848



### WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2022\_moves\13880\13880 Proposed.aqt

Date: 09/12/22

Time: 14:56:54

### PROJECT INFORMATION

Company: GMD 3

Project: 13880

Location: Stevens County

### WELL DATA

#### Pumping Wells

Well Name	X (ft)	Y (ft)
13880	-173574	49918

#### Observation Wells

Well Name	X (ft)	Y (ft)
□	-173574	49918