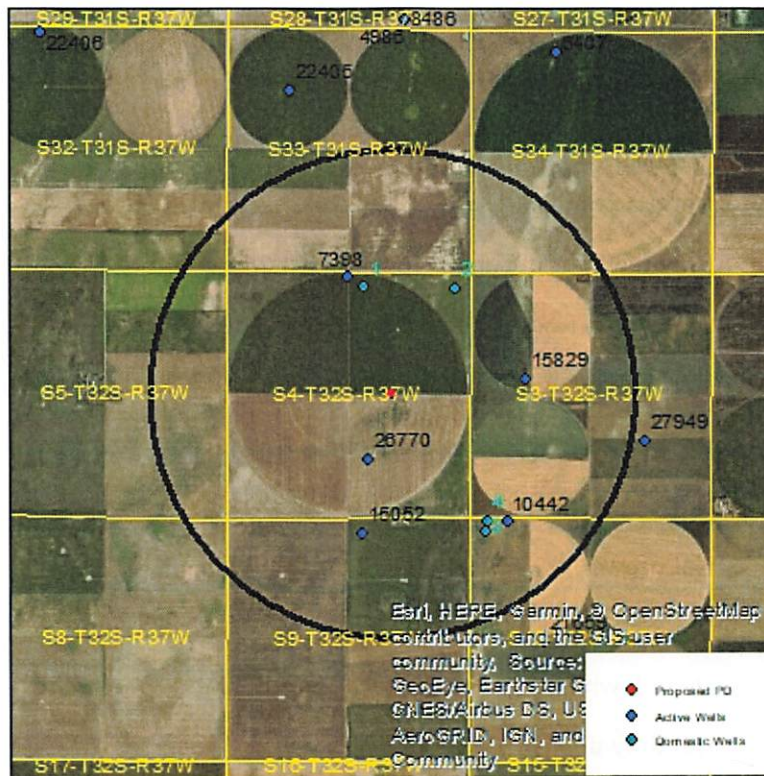


Evaluation of proposed move for Water Right No. 26770

Proposed: Move water right no. 26770 to a new well location, a distance of 1,510 ft to the northeast.



Wells within 1 mile: 7398, 15829, 15052, 10442, and four domestic wells, numbered on the above map.

The saturated thickness at the proposed well location is estimated to be 240 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:

$S = 0.2208$, $T = 5290 \text{ ft}^2/\text{day}$, $tp_{\text{current}} = 147 \text{ days}$ (based on average use and observed rate),
 $Q_{\text{current}} = 433 \text{ gpm}$ (based on 2021 field inspection), $tp_{\text{proposed}} = 119 \text{ days}$, $Q_{\text{proposed}} = 950 \text{ gpm}$

Theis drawdowns were calculated as follows:

7398: Drawdown from current location = 2.20 ft
 Drawdown from proposed location = 4.96 ft
 Net drawdown = **2.8 ft**

15829: Drawdown from current location = 2.24 ft
 Drawdown from proposed location = 4.72 ft
 Net drawdown = **2.49 ft**

15052: Drawdown from current location = 3.71 ft
Drawdown from proposed location = 4.52 ft
Net drawdown = **0.8 ft**

10442: Drawdown from current location = 2.42 ft
Drawdown from proposed location = 4.05 ft
Net drawdown = **1.6 ft**

Domestic 1: Drawdown from current location = 2.28 ft
Drawdown from proposed location = 5.39 ft
Net drawdown = **3.1 ft**

Domestic 2: Drawdown from current location = 2.13 ft
Drawdown from proposed location = 5.00 ft
Net drawdown = **2.9 ft**

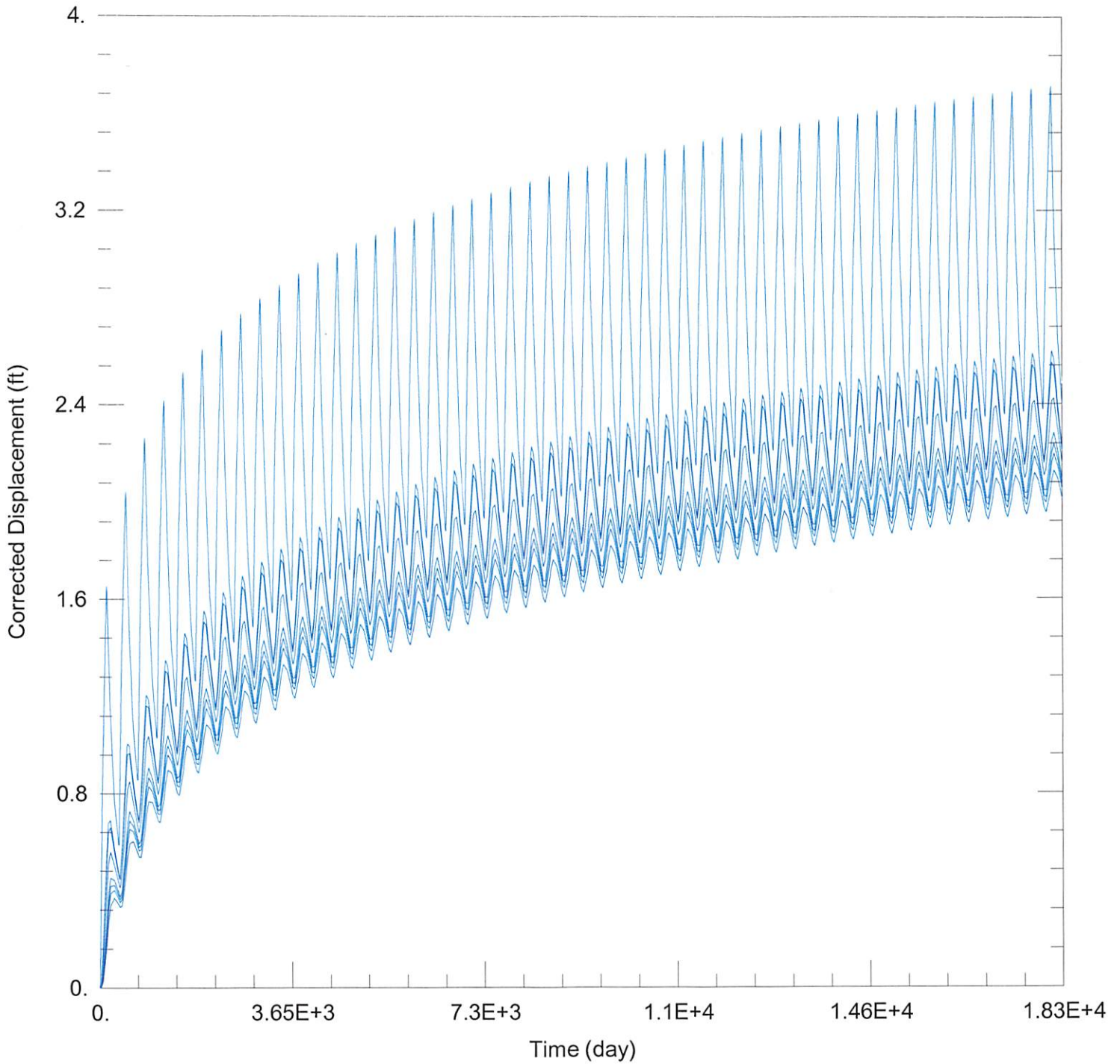
Domestic 3: Drawdown from current location = 2.57 ft
Drawdown from proposed location = 4.13 ft
Net drawdown = **1.6 ft**

Domestic 4: Drawdown from current location = 2.62 ft
Drawdown from proposed location = 4.25 ft
Net drawdown = **1.6 ft**

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\26770\26770 Current.aqt
 Date: 11/30/22 Time: 15:00:28

PROJECT INFORMATION

Company: GMD 3
 Project: 26770
 Location: Stevens County

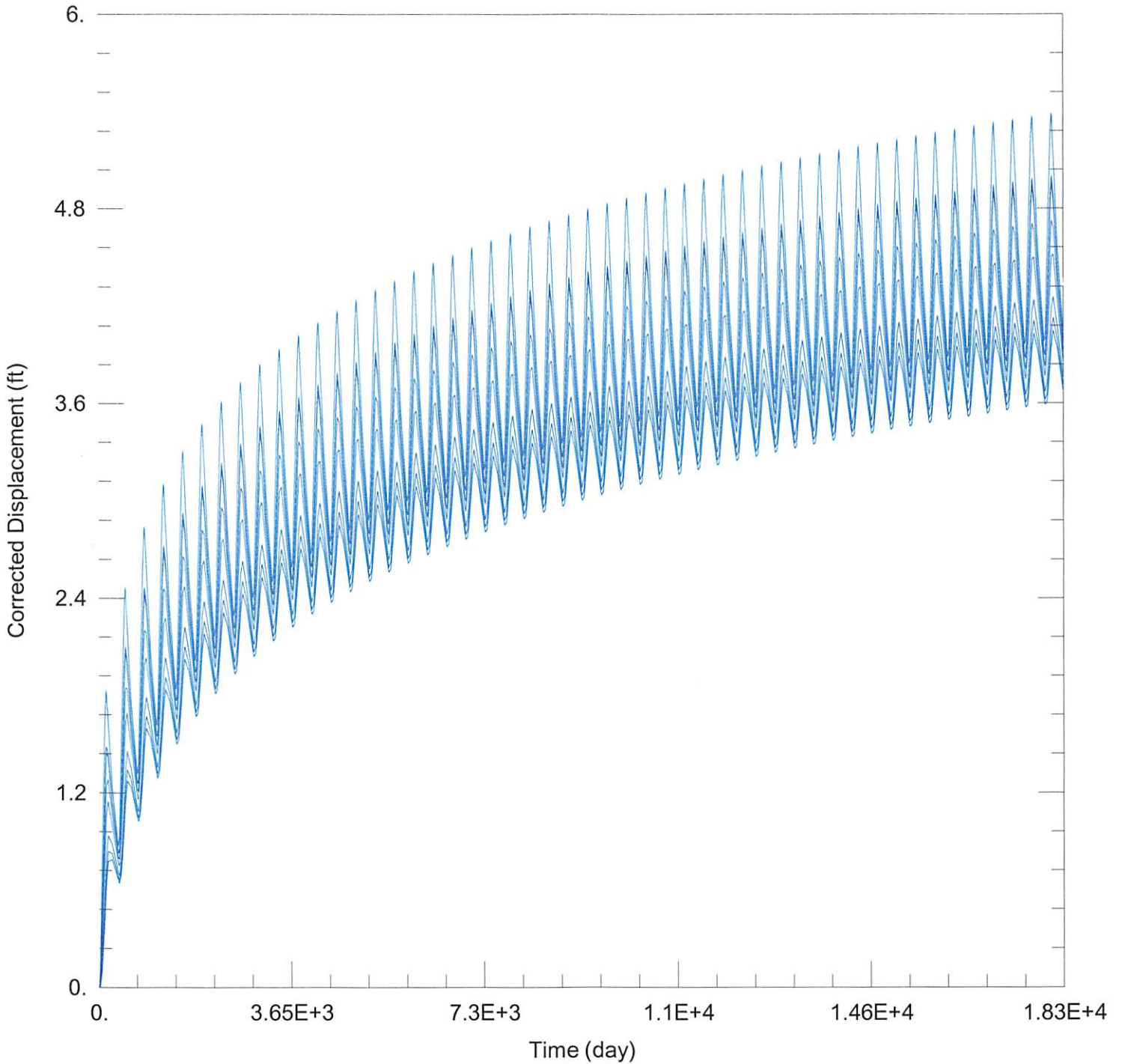
WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)
26770	-159236	151472

Well Name	X (ft)	Y (ft)
□	-159236	151472



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2022_moves\26770\26770 Proposed.aqt
 Date: 11/30/22 Time: 15:00:20

PROJECT INFORMATION

Company: GMD 3
 Project: 26770
 Location: Stevens County

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)
26770	-158696	152881

Well Name	X (ft)	Y (ft)
□	-158696	152881