



Parklane River District Developments Ltd.
9th Floor – Four Bentall Centre
1055 Dunsmuir Street
Vancouver, BC
V7X 1J1

December 5, 2019
File: 9820-F

Attention: Bob Boky

**Re: Geotechnical Comments – Kinross Park North & Kinross Park Middle
River District - East Kent Avenue & Kinross Street, Vancouver, BC**

GeoPacific has completed an analysis of the settlement gauge readings for the above referenced site. Kinross Park North and Kinross Park Middle were preloaded between June 26, 2019 and December 4, 2019. The preload was placed to about 1.5 m above proposed elevations during this time for both parks.

The recent total recorded settlements during this preload were less than 159 mm and 105 mm for Kinross Park North and Kinross Park Middle, respectively. The current settlement rates are less than 1mm/day for both parks. Based on the results of our settlement gauge analysis, we estimate that post construction settlements over a time span of 10 years would be as indicated in the table below.

Table 1: Estimated Settlement of Proposed Parks

Park	Area	Predicted Settlement (mm)	Predicted Differential Settlement
Kinross Park North	North Portion	20 to 30	1:300
	South Portion	50 to 75	
Kinross Park Middle	N/A	20 to 30	1:500

Based on our analysis, only nominal reductions in long-term settlement within the area can be achieved by extending the preload duration. Thus, provided the estimated settlements noted above are acceptable we are of the opinion that the preload on both Kinross Park North and Kinross Park Middle can be removed. A plan drawing with the settlement gauge locations and settlement plots are attached to this letter for your reference.

We are pleased to assist you with this project and trust that this information is sufficient for your purposes at this time.

For:
GeoPacific Consultants Ltd.

Reviewed by:



DEC 05 2019

Patrick Martz, B.A.Sc., E.I.T.
Project Manager

Matt Kokan, M.A.Sc., P.Eng.
Principal

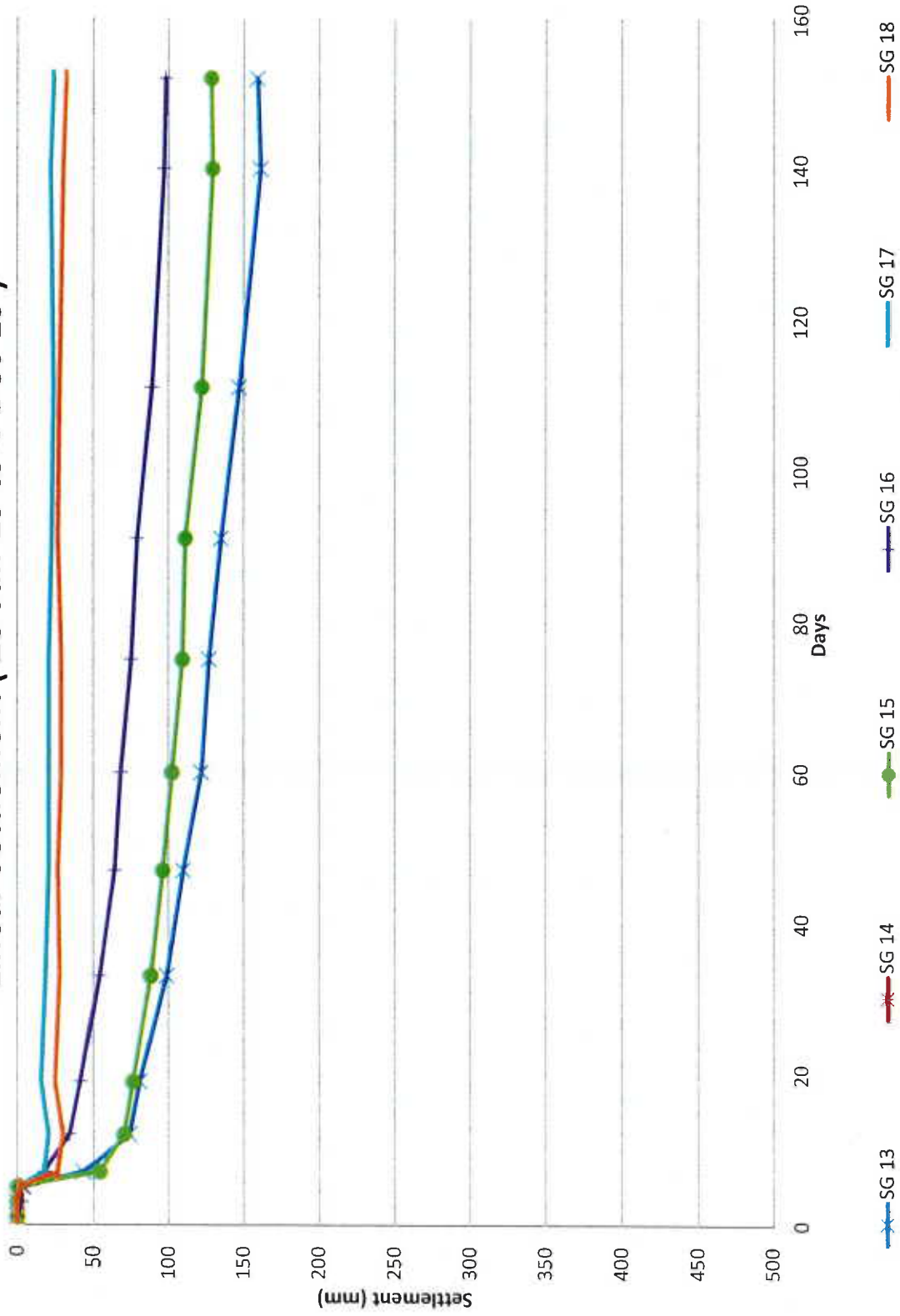
SETTLEMENT POINT MONITORING ON LOTS 24 AND 14 PLAN EPP23174
KINROSS PARKS

SCALE 1:200 (DIMENSIONS ARE IN METRES)

- NOTE
- 1" - DIMENSIONED DIMENSION LINE NUMBER
 - ⊕ - DIMENSIONED SETTLEMENT GAUGE LOCATION ON PAVED
 - ▲ - DIMENSIONED MONITORING LINE (TYPICAL BANK)



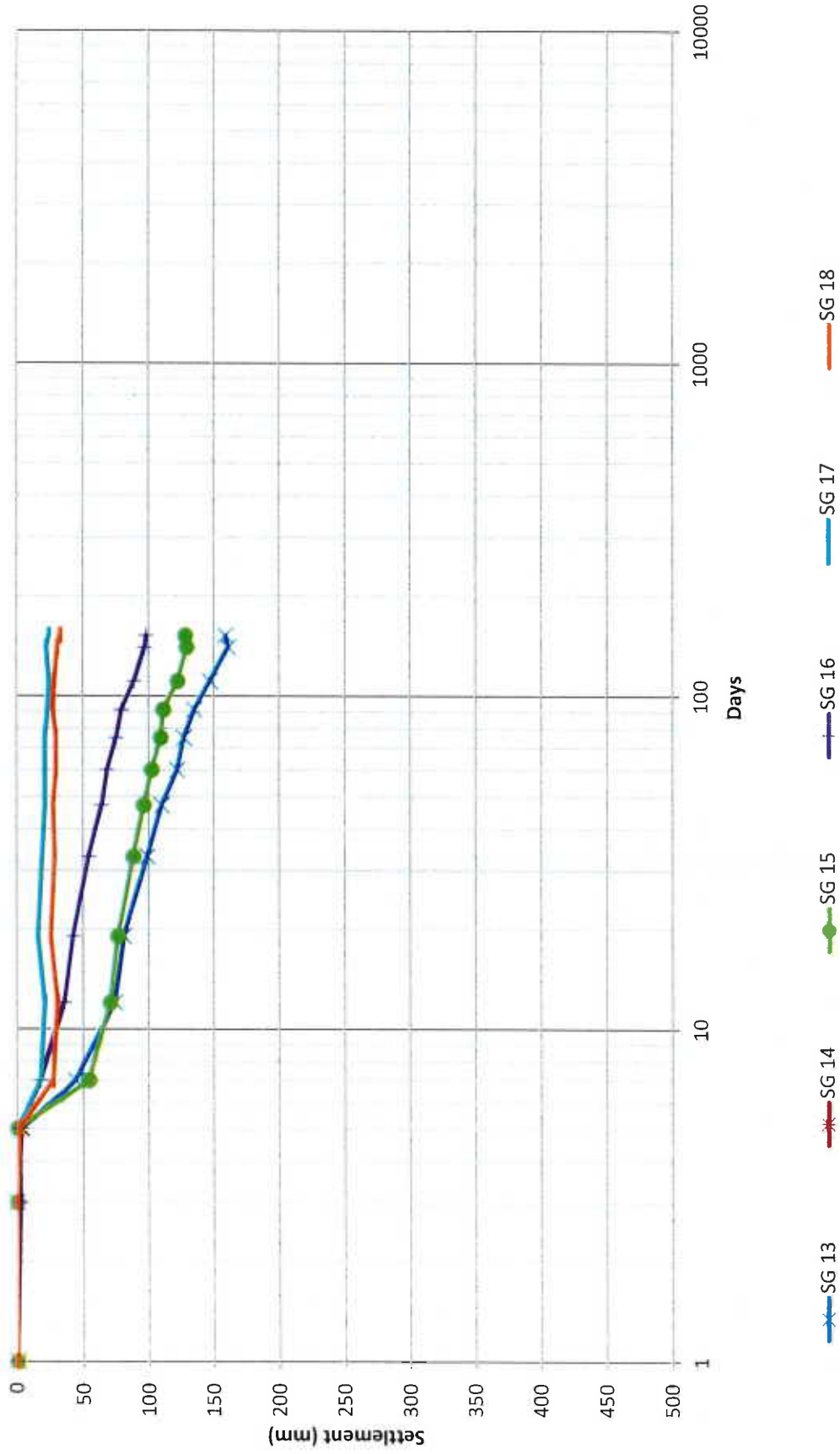
Linear Settlement (26-Jun-19 to 4-Dec-19)



Project: Kinross Park North
Client: Wesgroup
Job #: 9820-F

Updated: 12-4-19
Updated By: PM

Logarithmic Settlement (26-Jun-19 to 4-Dec-19)



Project: Kinross Park North
Client: Wesgroup
Job #: 9820-F

Updated: 12-4-19
Updated By: PM

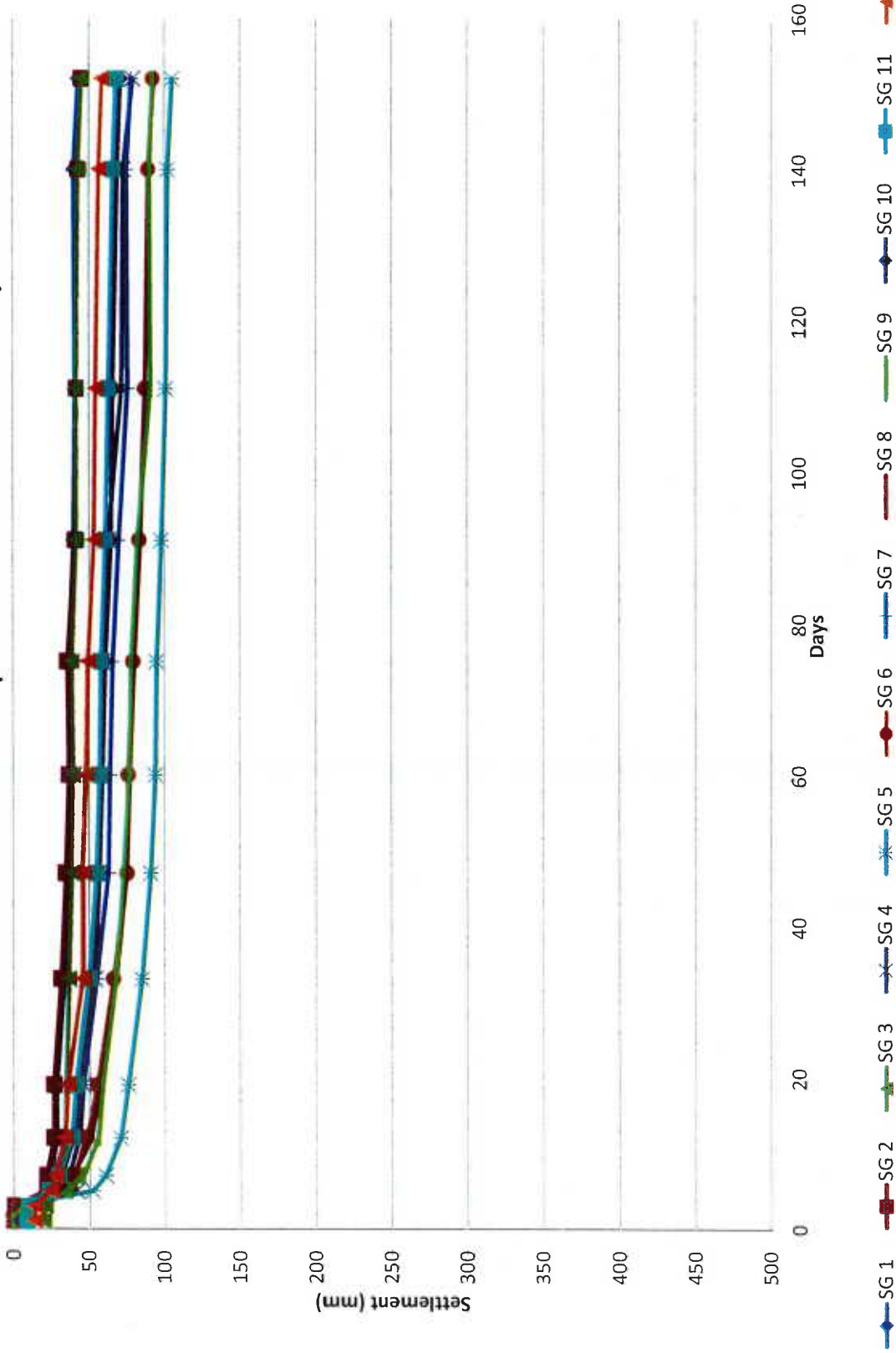
Rate of Settlement (26-Jun-19 to 4-Dec-19)



Project: Kinross Park North
 Client: Wesgroup
 Job #: 9820-F

Updated: 12-4-19
 Updated By: PM

Linear Settlement (26-Jun-19 to 4-Dec-19)



Project: Kinross Park Middle

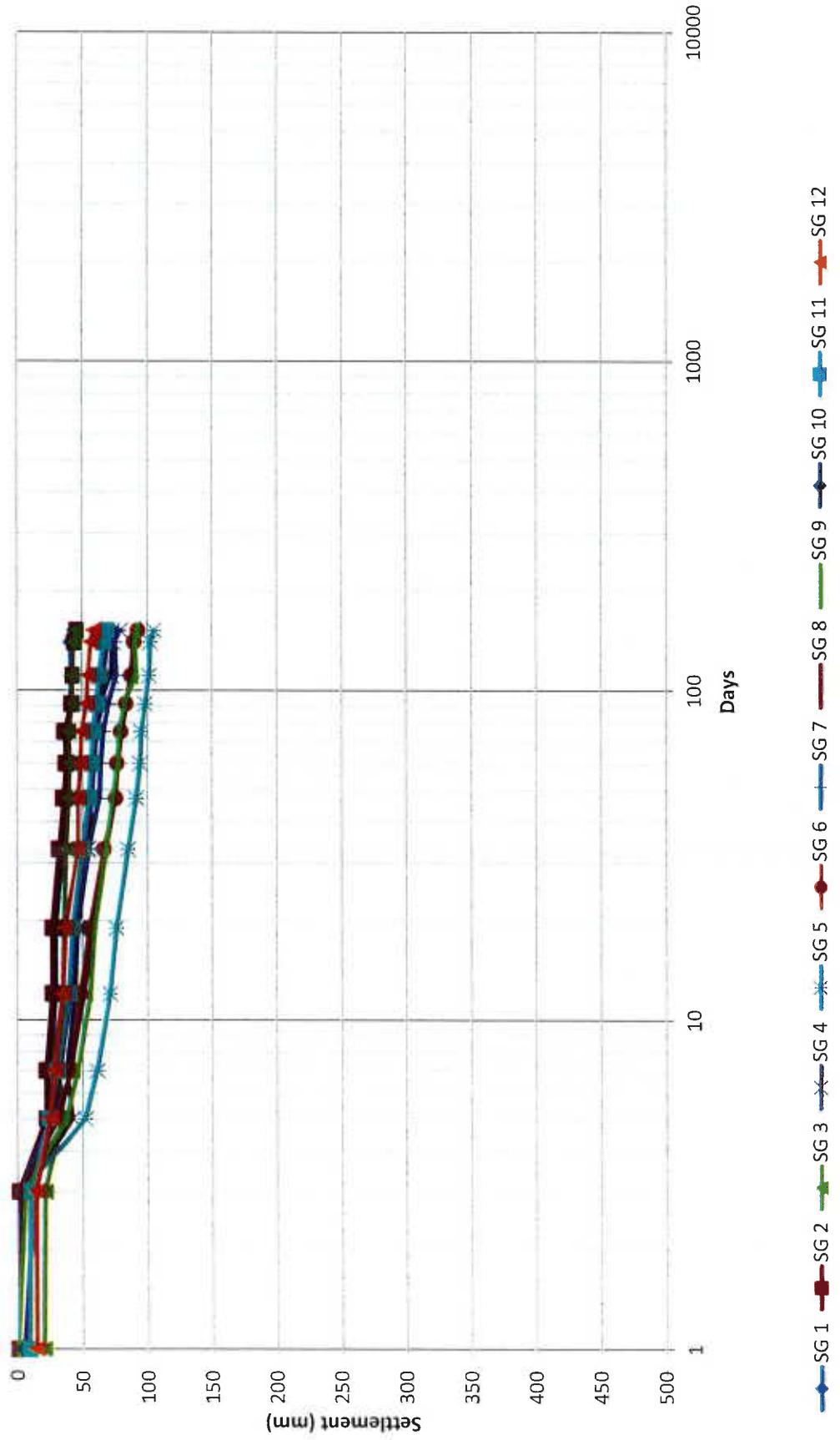
Client: Wesgroup

Job #: 9820-F

Updated: 12-4-19

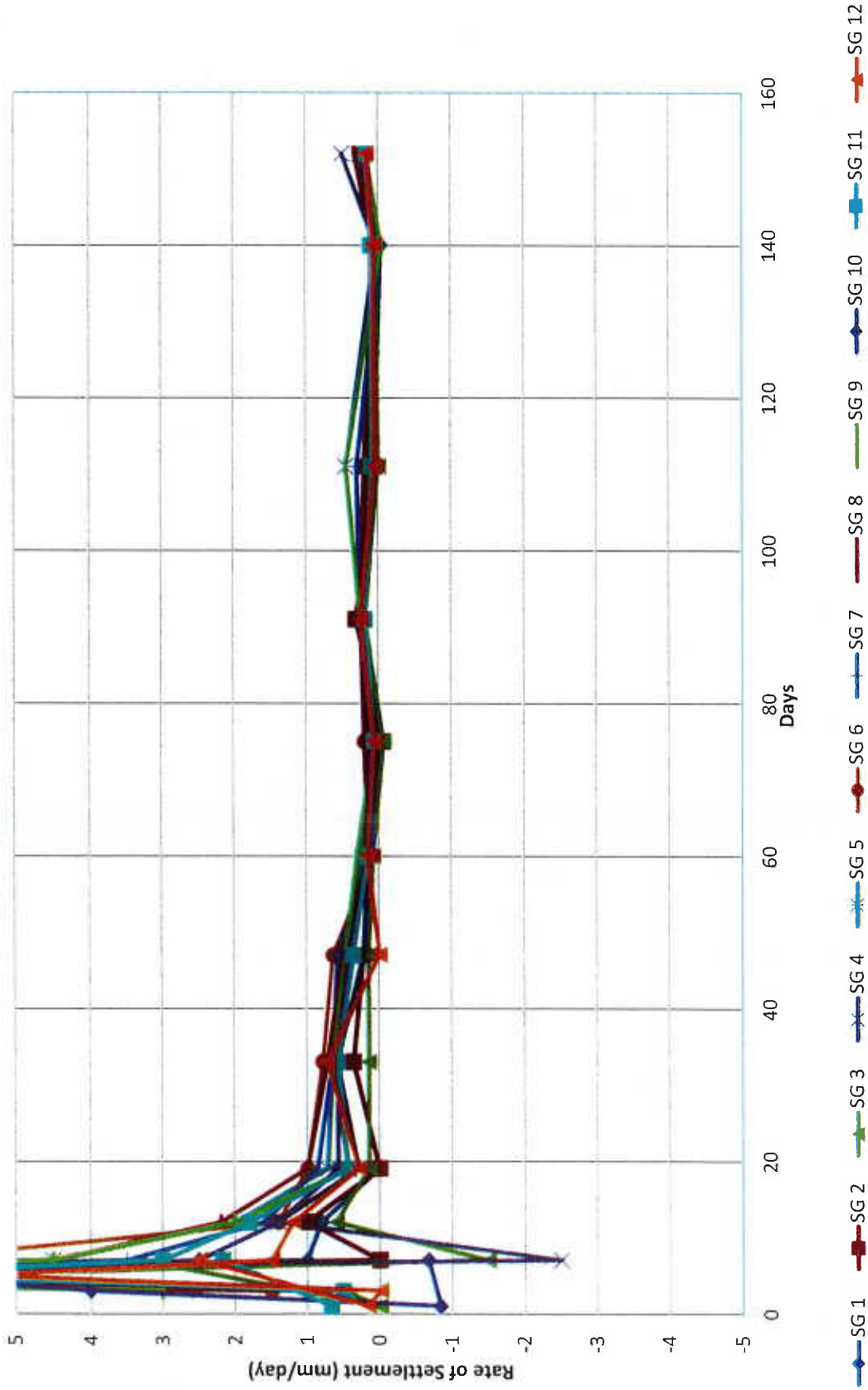
Updated By: PM

Logarithmic Settlement (26-Jun-19 to 4-Dec-19)



Project: Kinross Park Middle
Client: Wesgroup
Job #: 9820-F
Updated: 12-4-19
Updated By: PM

Rate of Settlement (26-Jun-19 to 4-Dec-19)



Updated: 12-4-19

Updated By: PM

Project: Kinross Park Middle

Client: Wesgroup

Job #: 9820-F