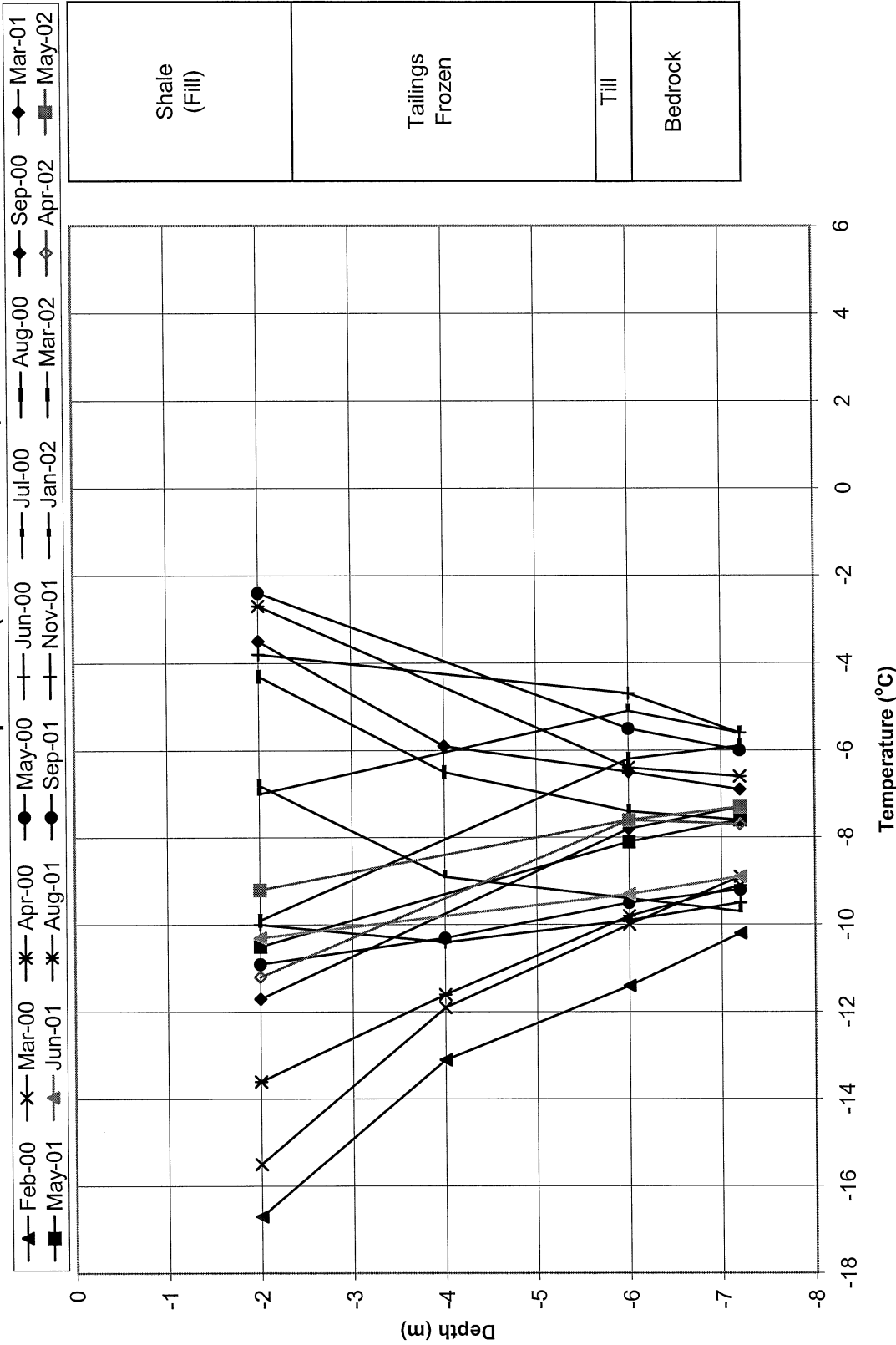
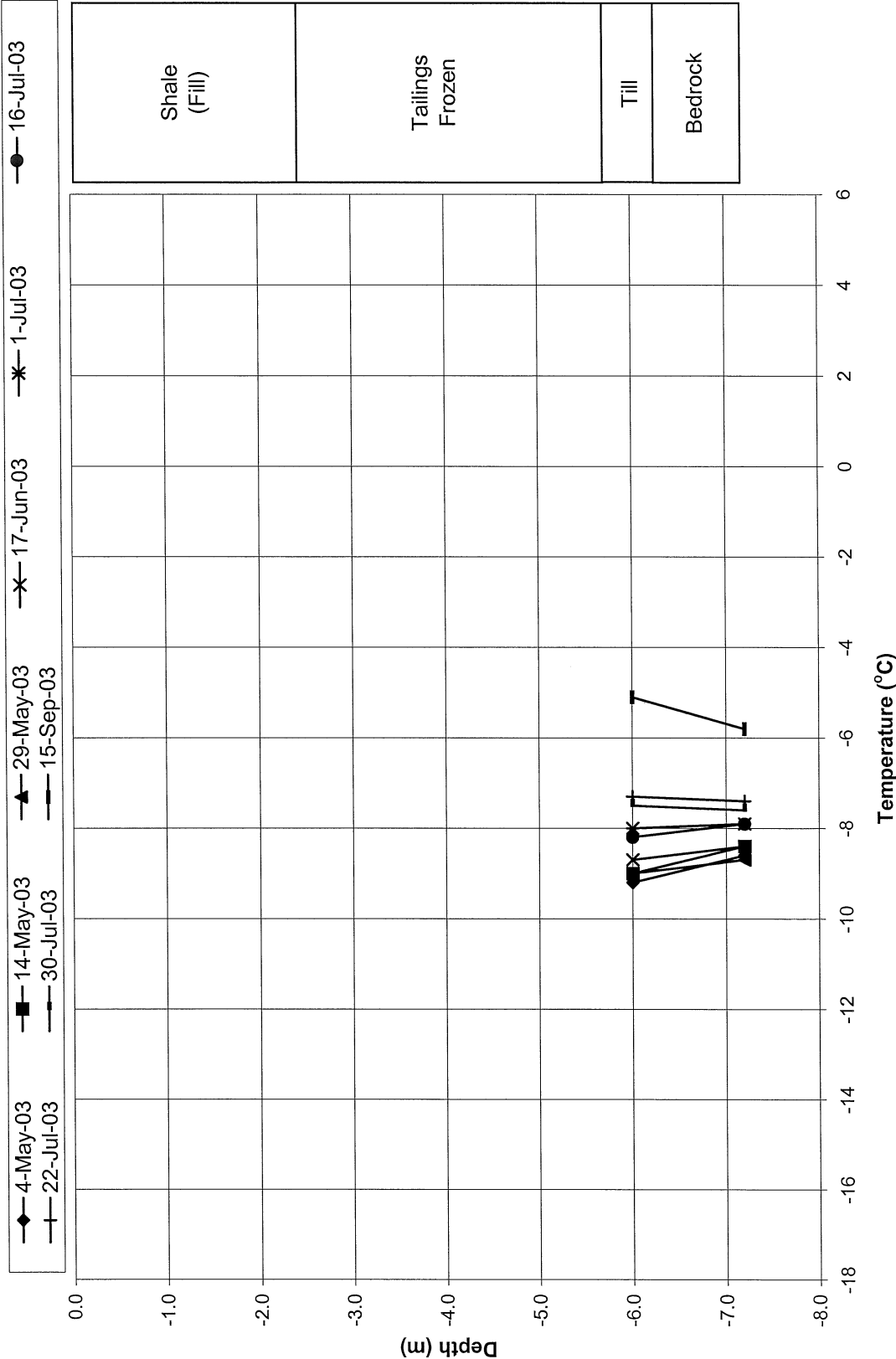


APPENDIX IV GEOTHERMAL MONITORING WEST TWIN DISPOSAL AREA

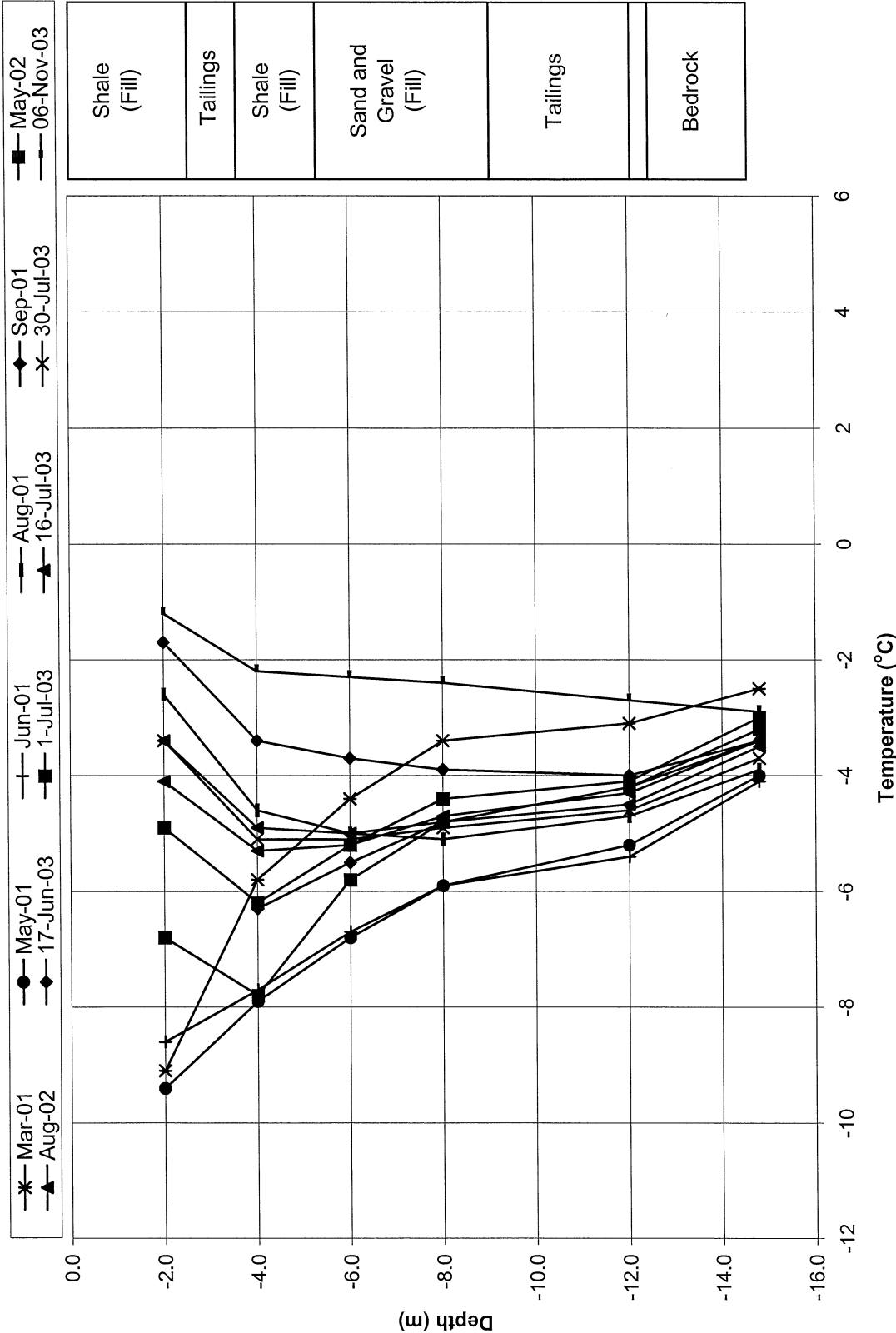
Geothermal Monitoring
West Twin Dike
Thermocouple TC1 (2000-2002 Data)



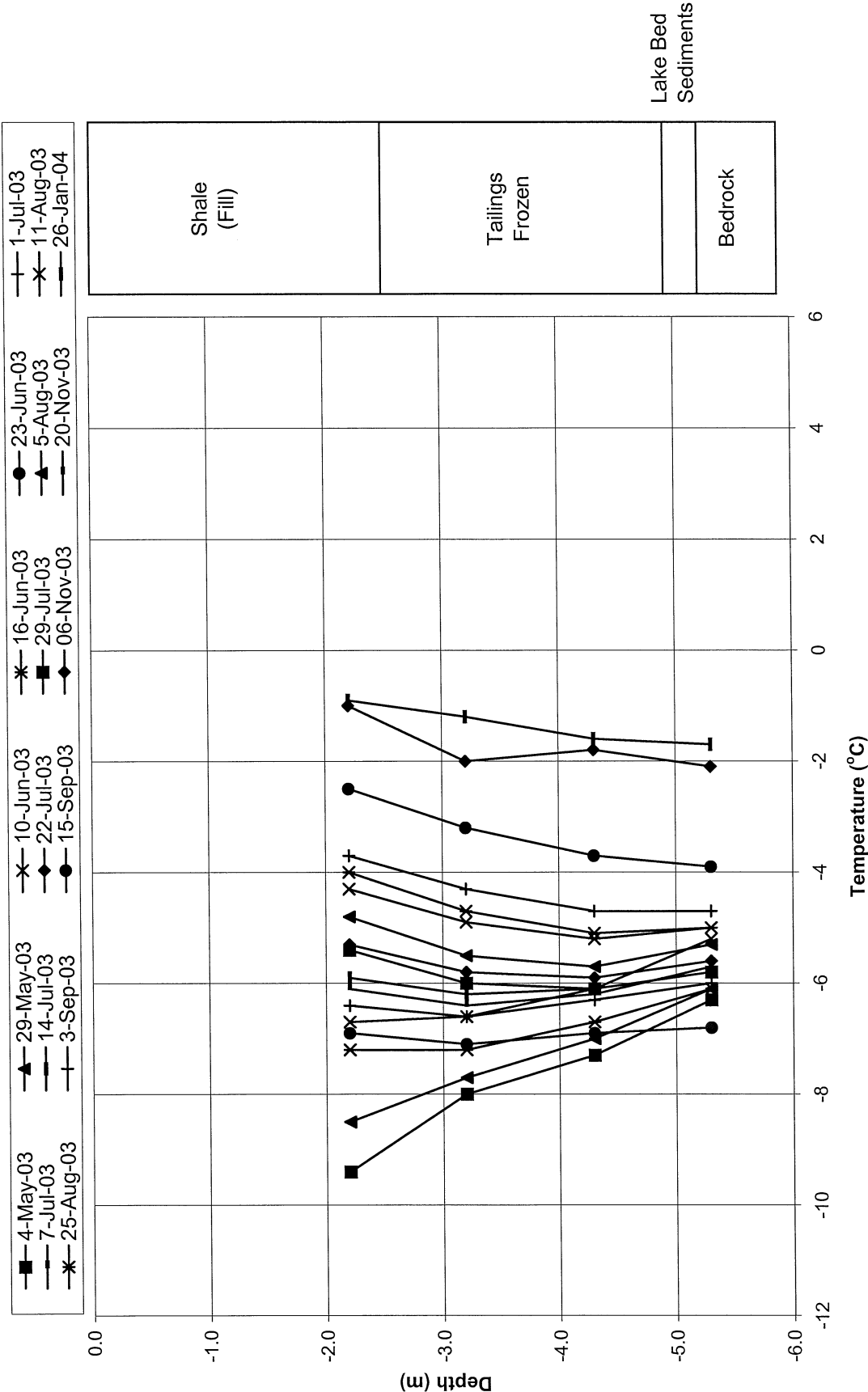
Geothermal Monitoring
West Twin Dike
Thermocouple TC 1 (2003 Data)



Geothermal Monitoring
West Twin Dike
Thermocouple TC 2



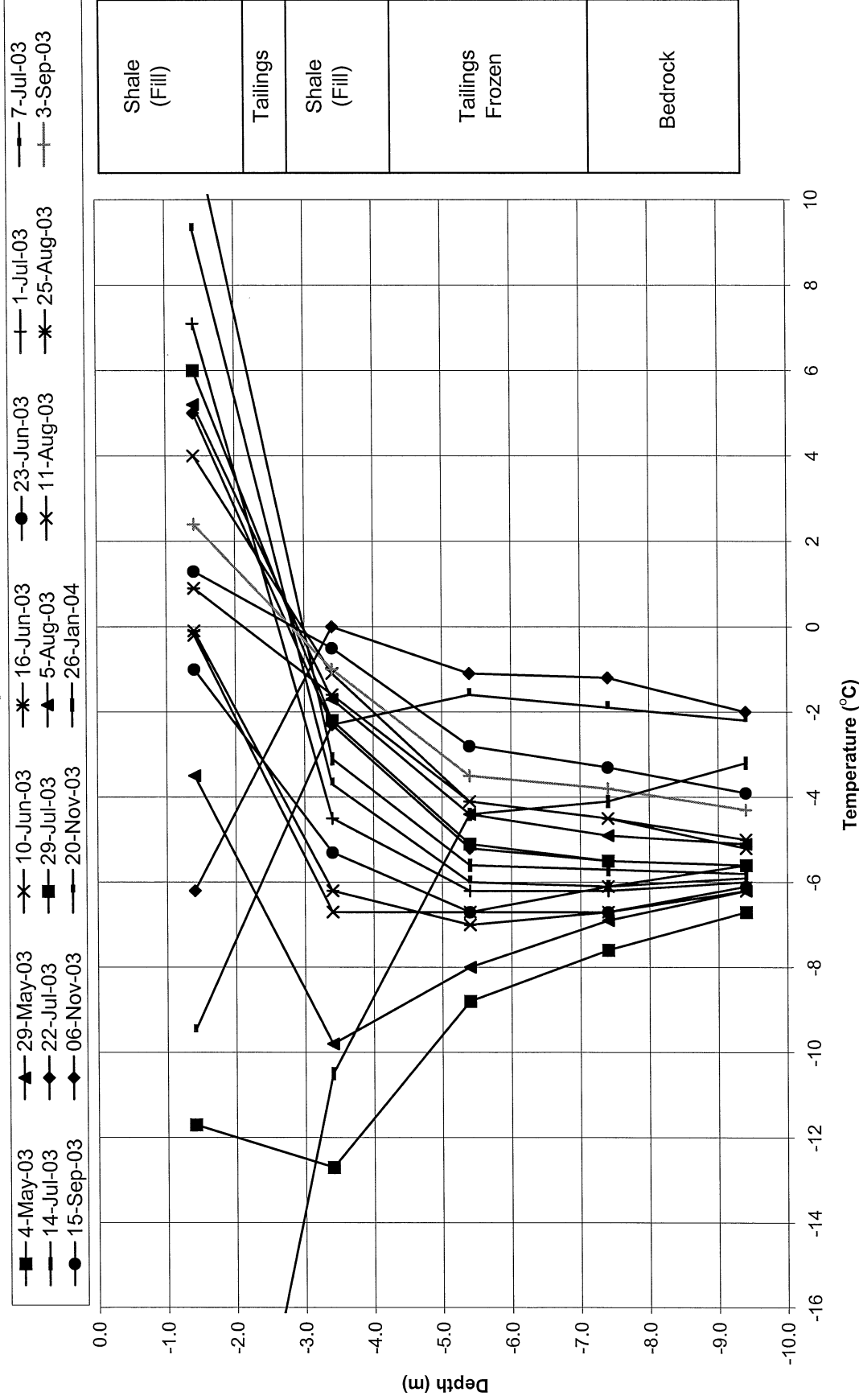
Geothermal Monitoring
West Twin Dike
Thermocouple TC 12



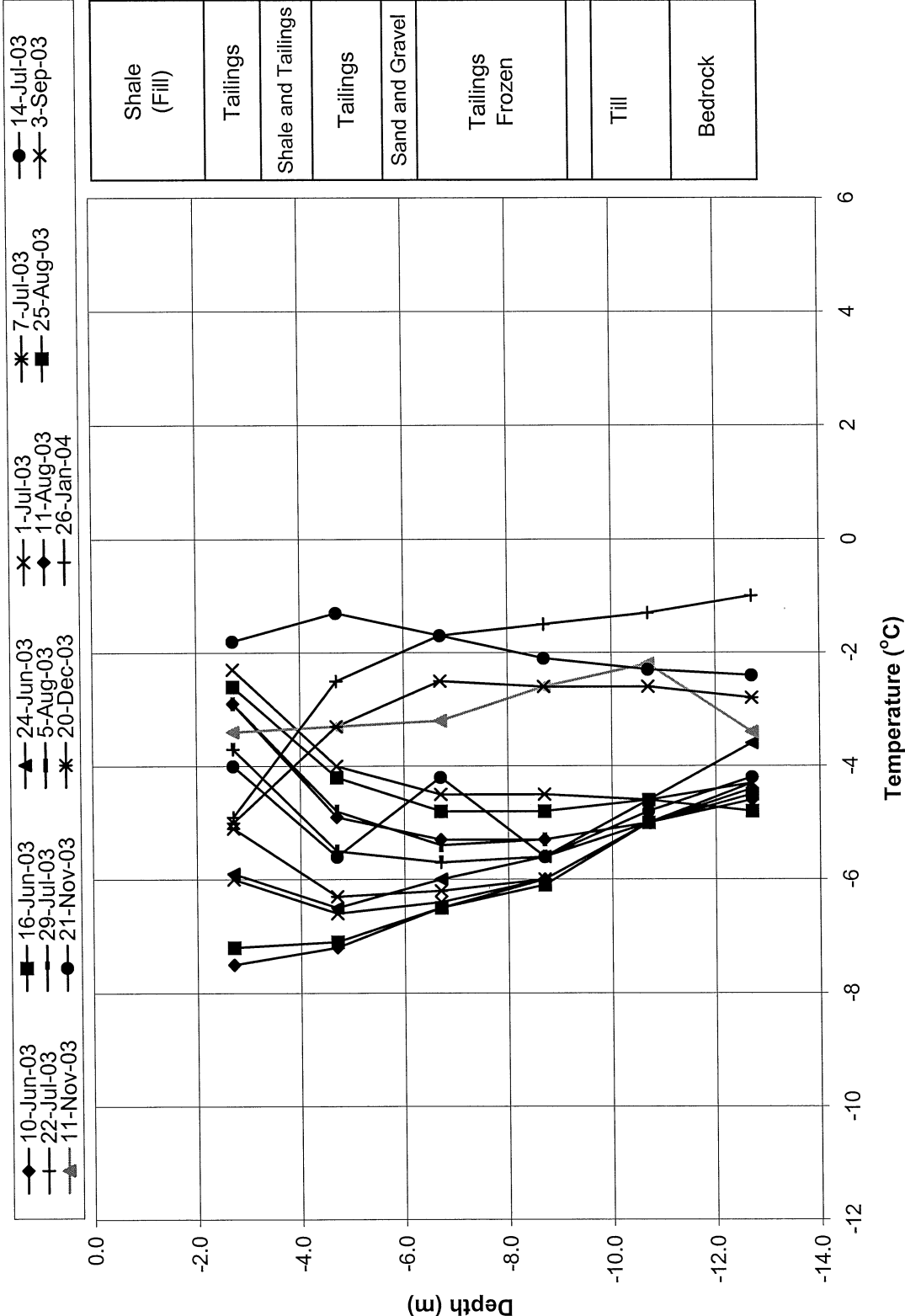
Geothermal Monitoring

West Twin Dike

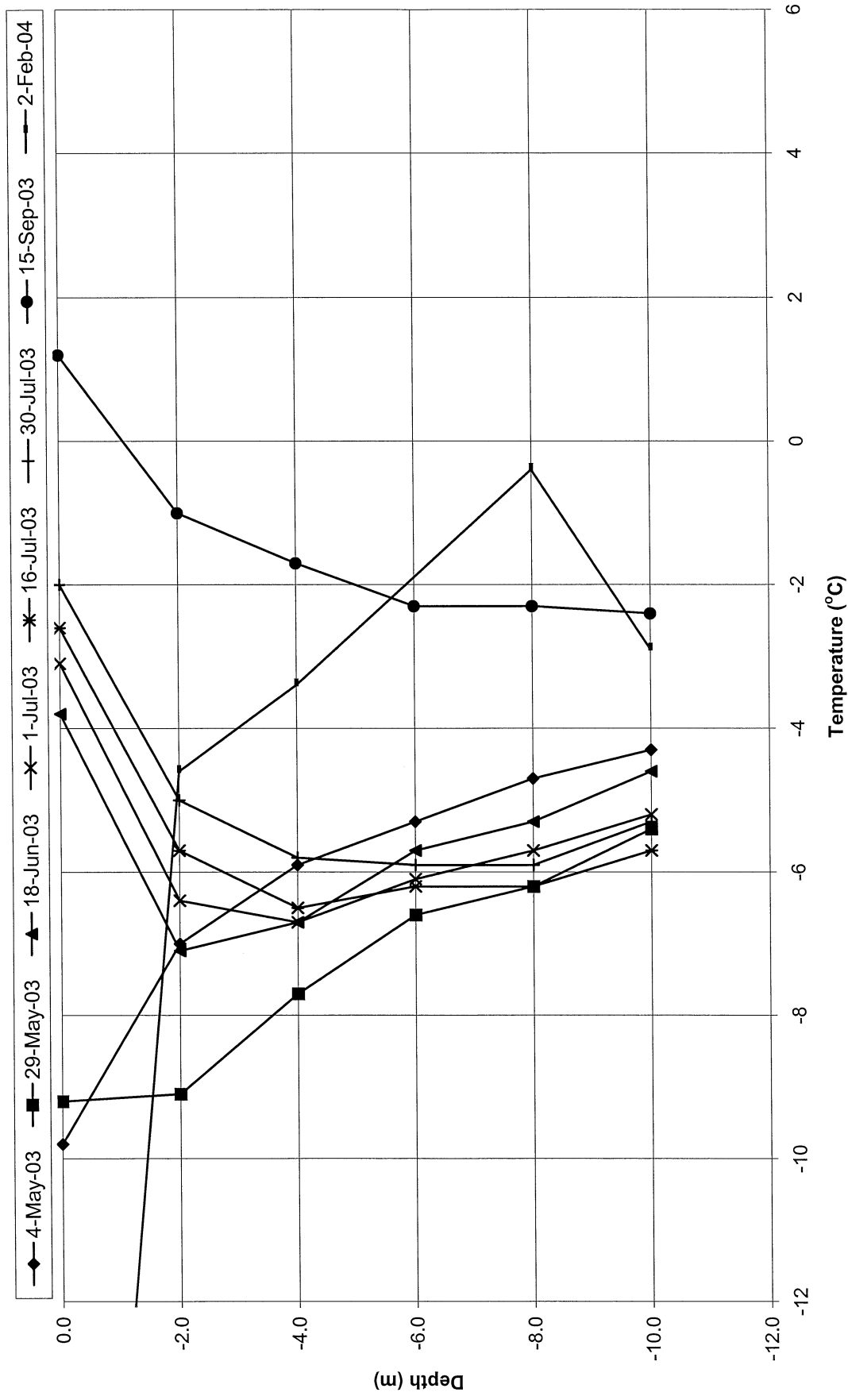
Thermocouple TC 13A



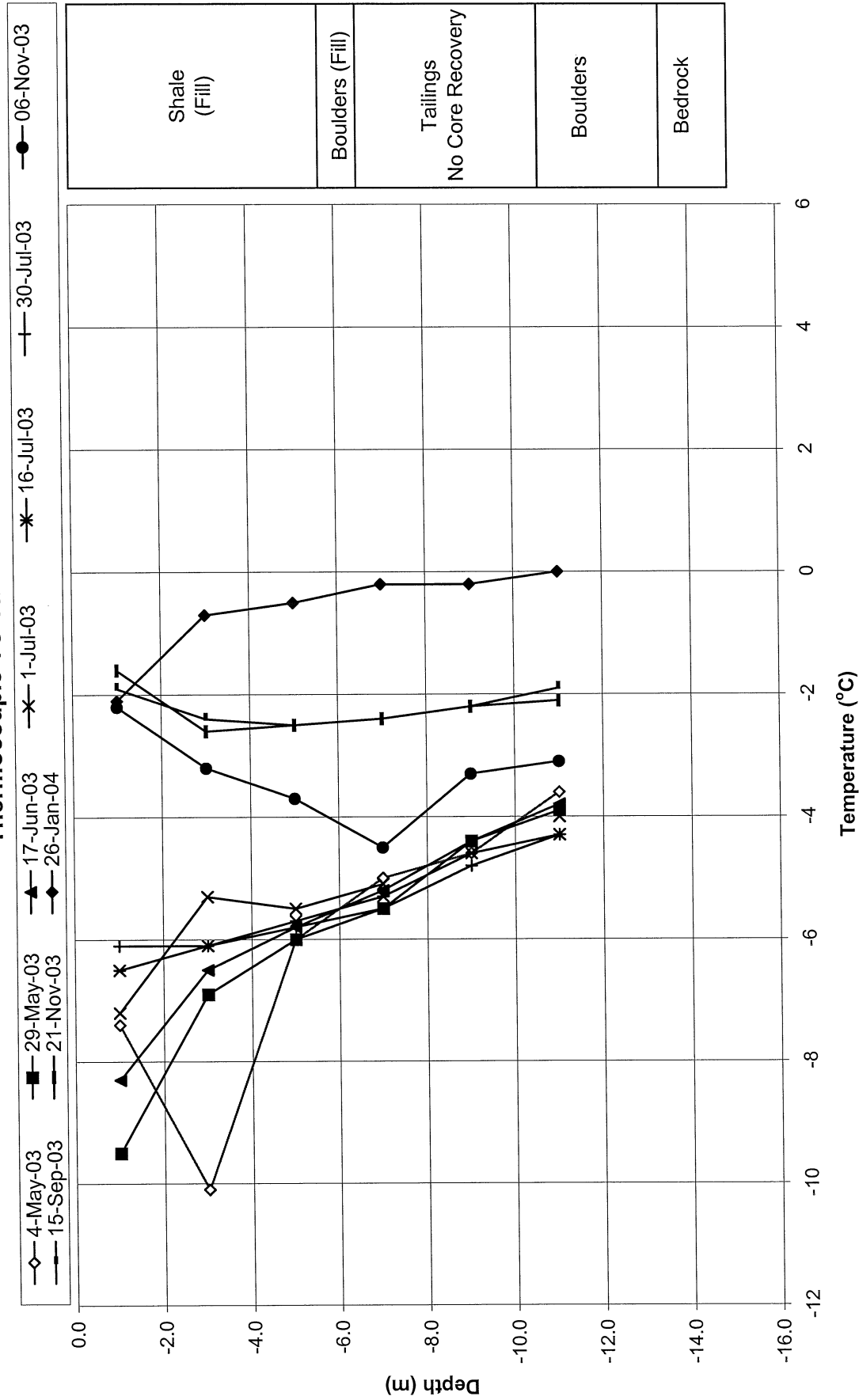
Geothermal Monitoring
West Twin Dike
Thermocouple TC 14



Geothermal Monitoring
West Twin Dike
Thermocouple TC 15



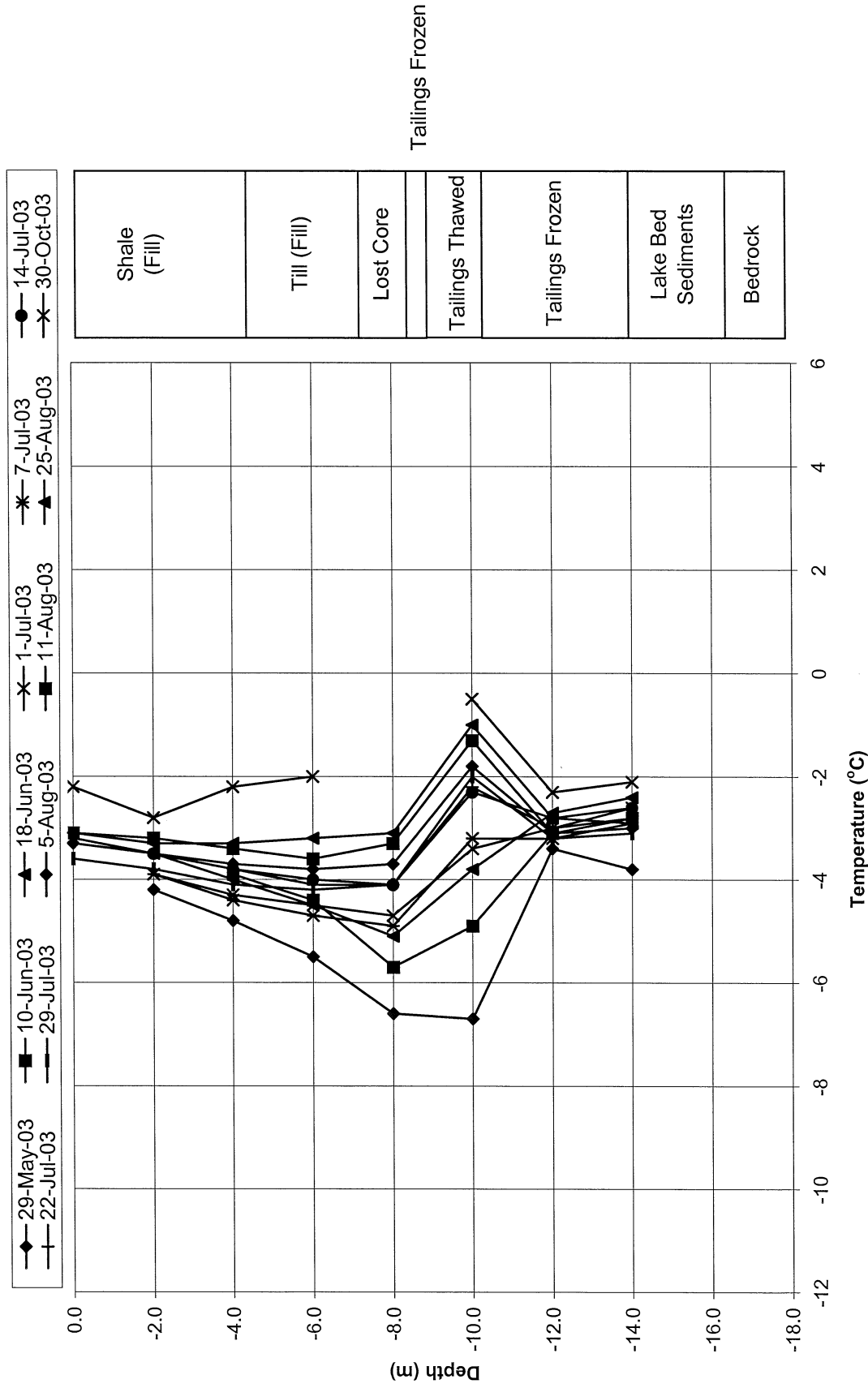
Geothermal Monitoring
West Twin Dike
Thermocouple TC 15A



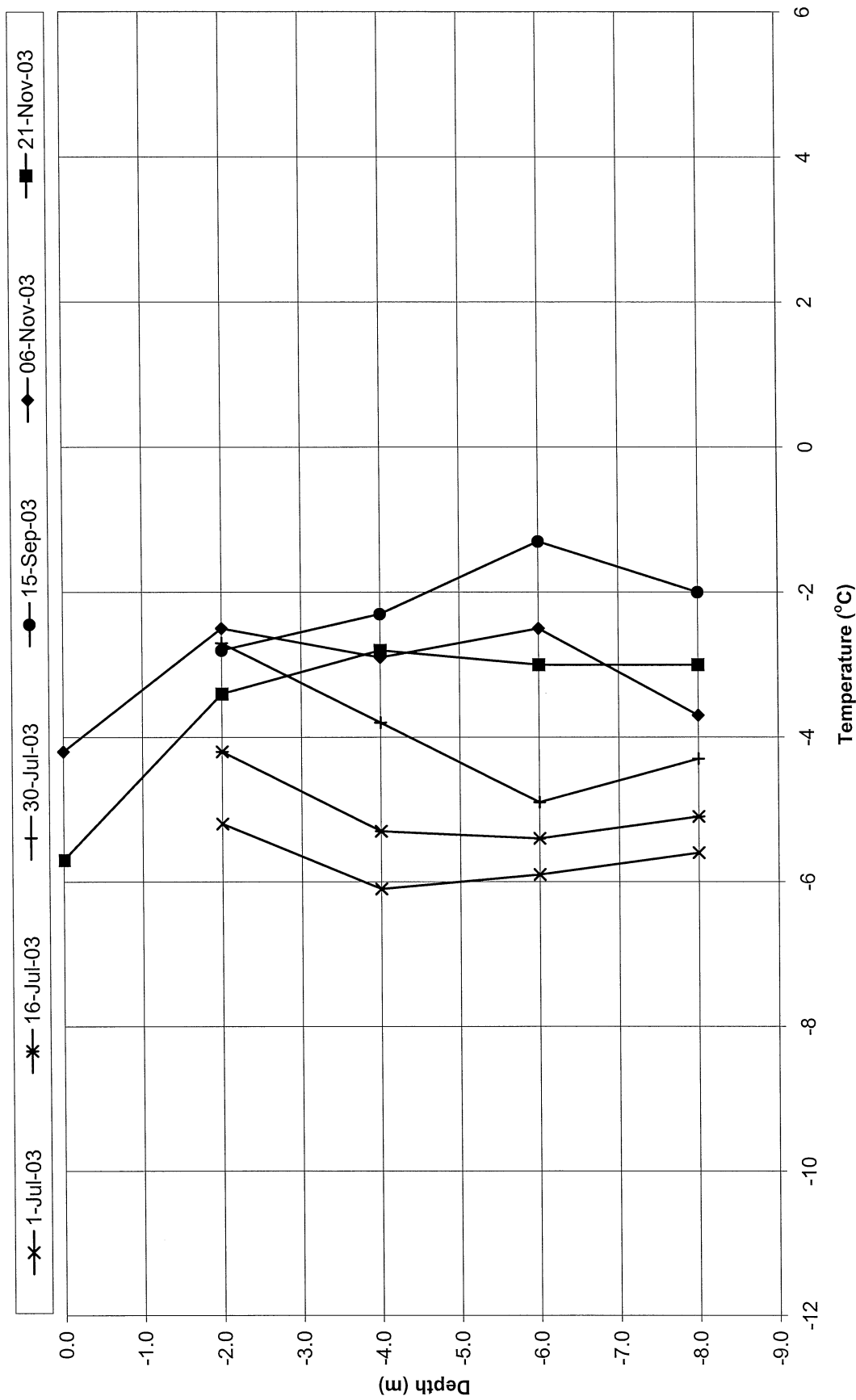
Geothermal Monitoring

West Twin Dike

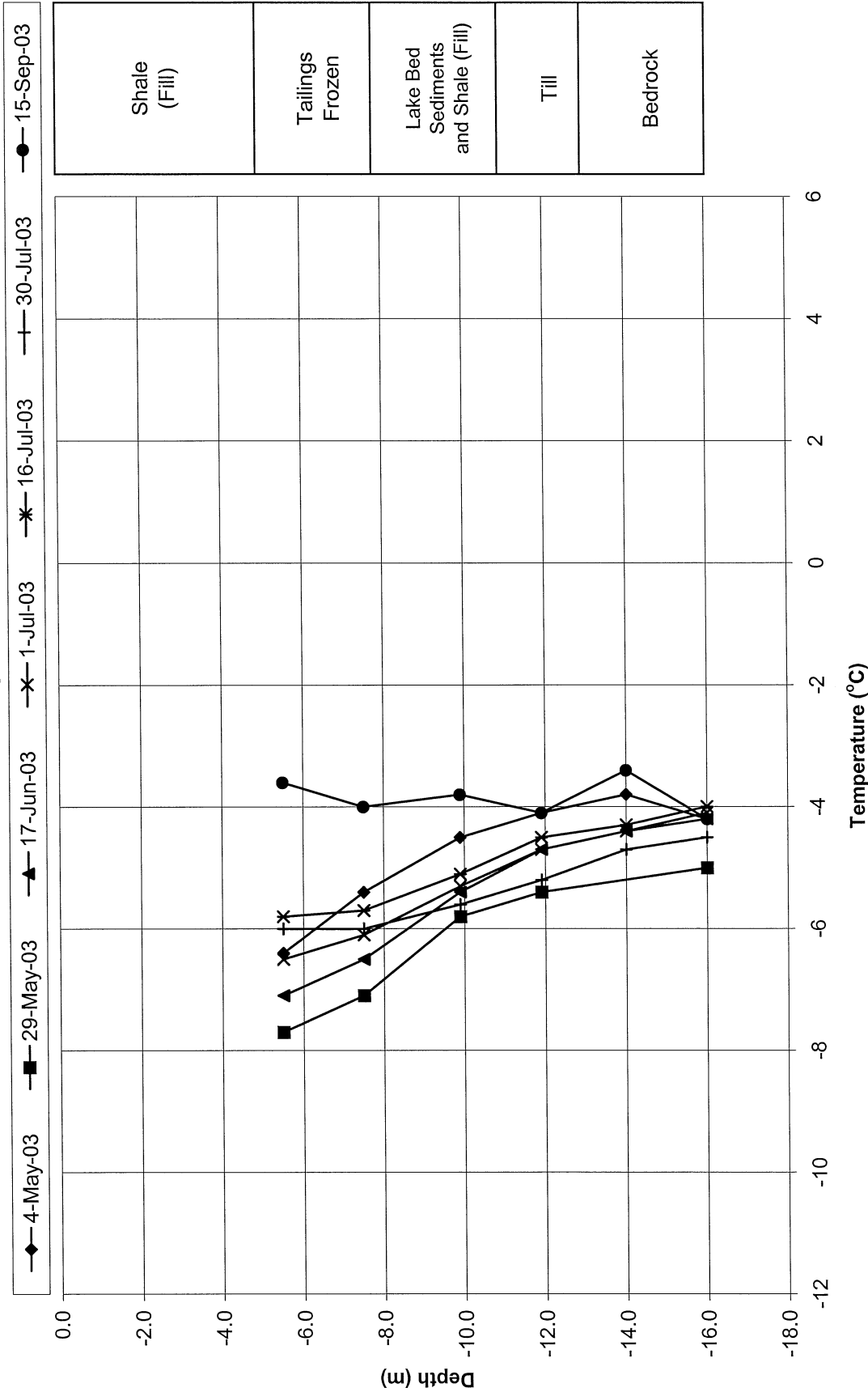
Thermocouple TC 16



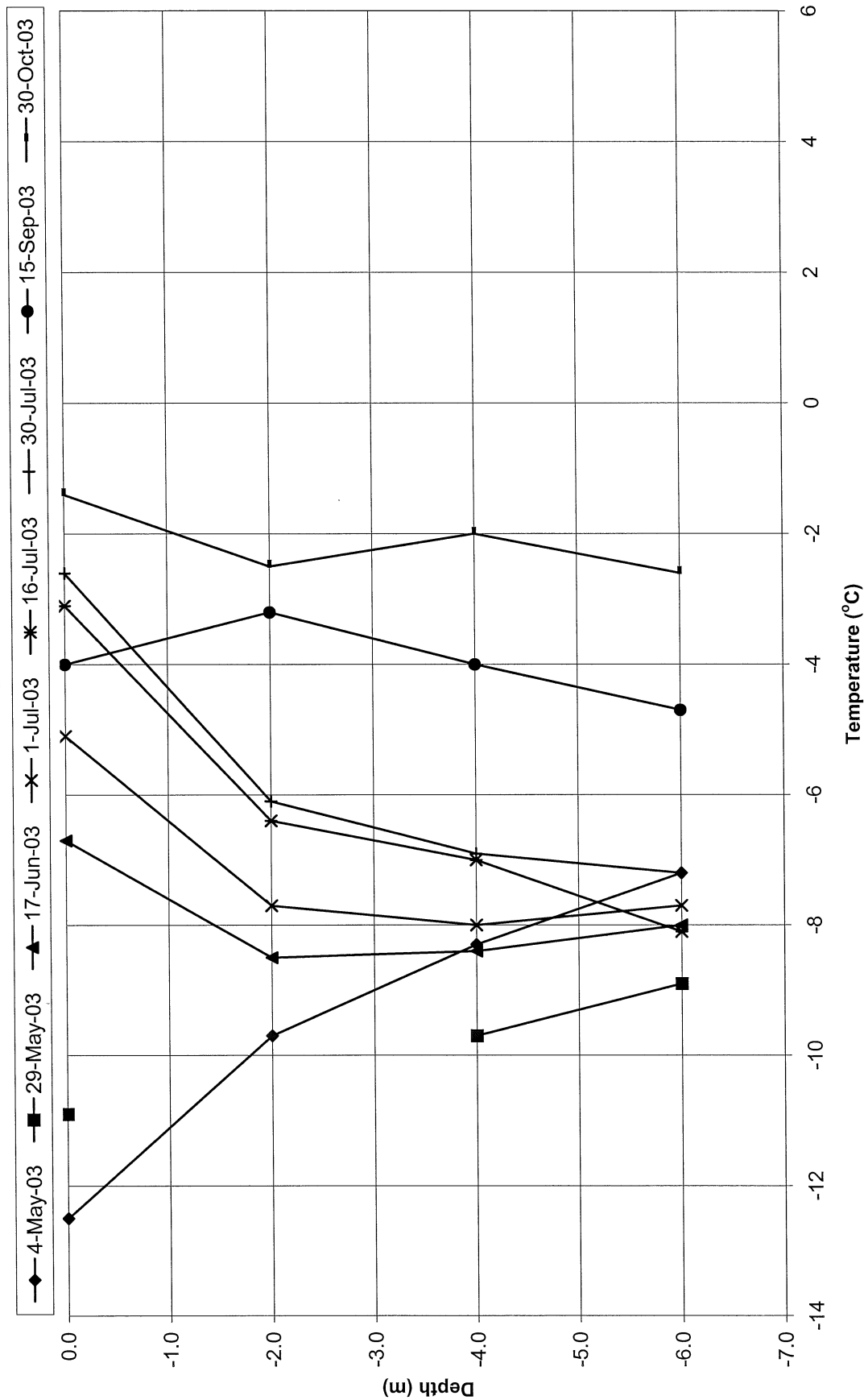
Geothermal Monitoring
West Twin Dike
Thermocouple TC 17



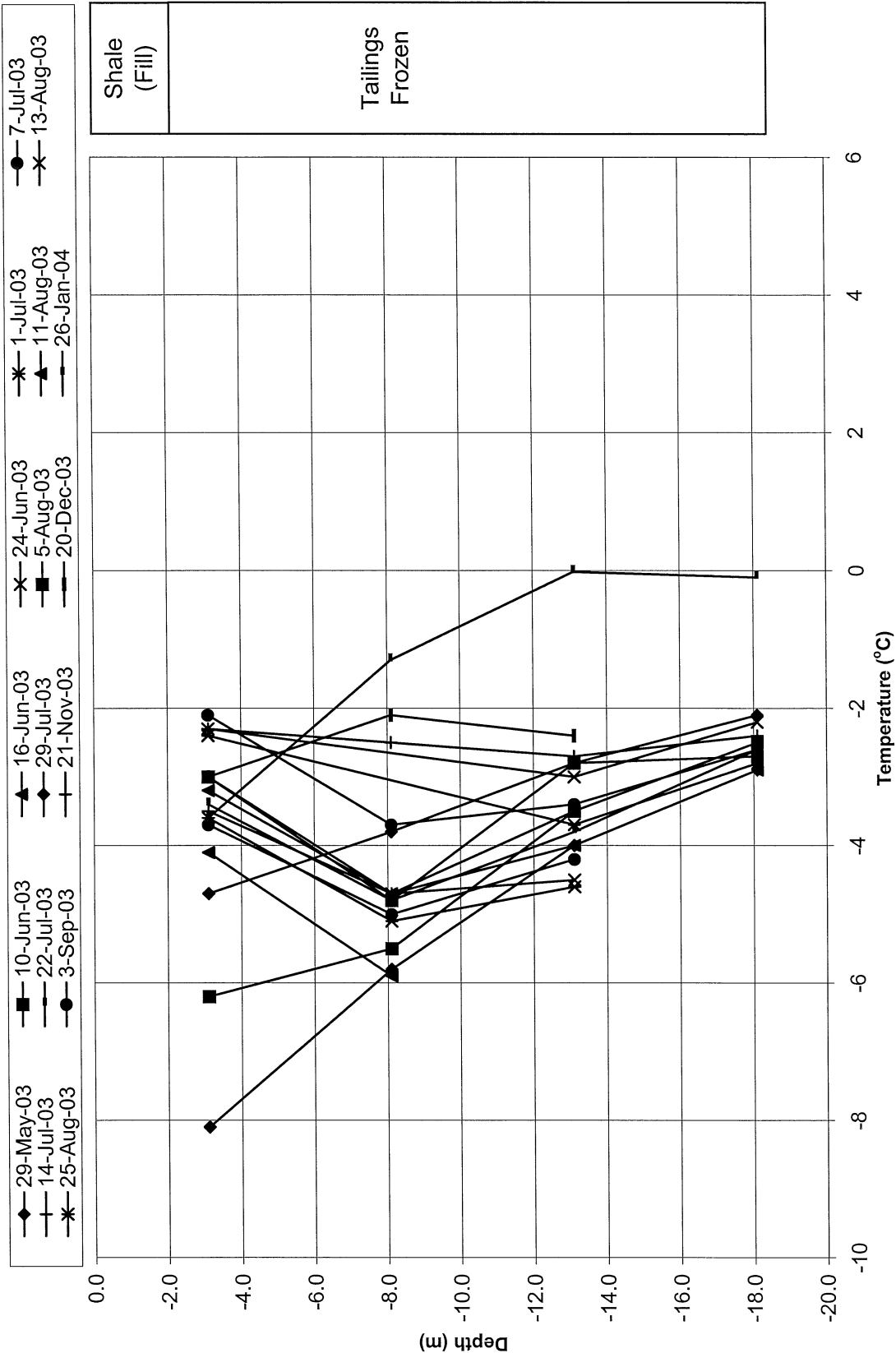
Geothermal Monitoring
West Twin Dike
Thermocouple TC 17A



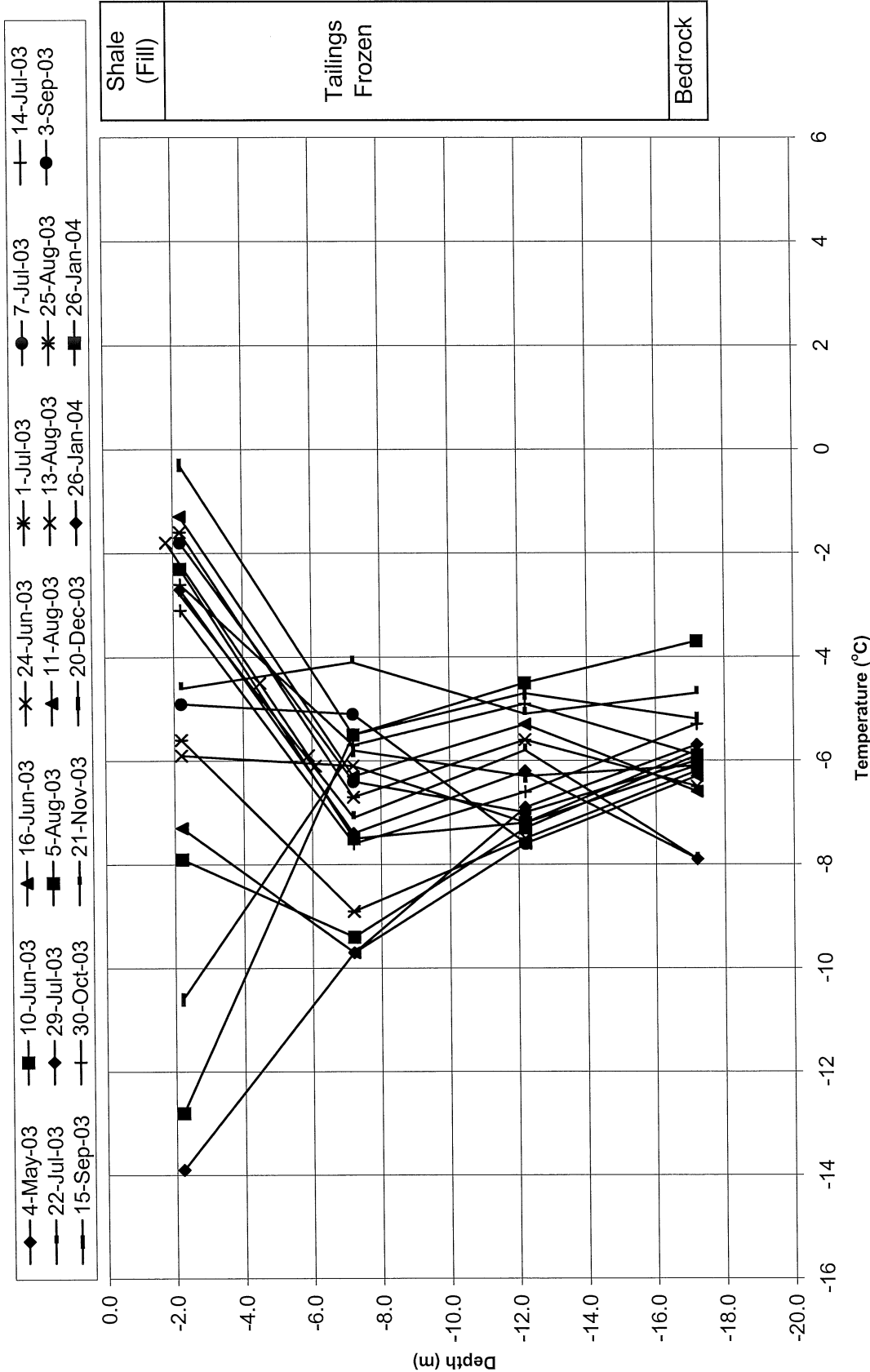
Geothermal Monitoring
West Twin Dike
Thermocouple TC 18



Geothermal Monitoring
West Twin Dike
Thermocouple TC 28



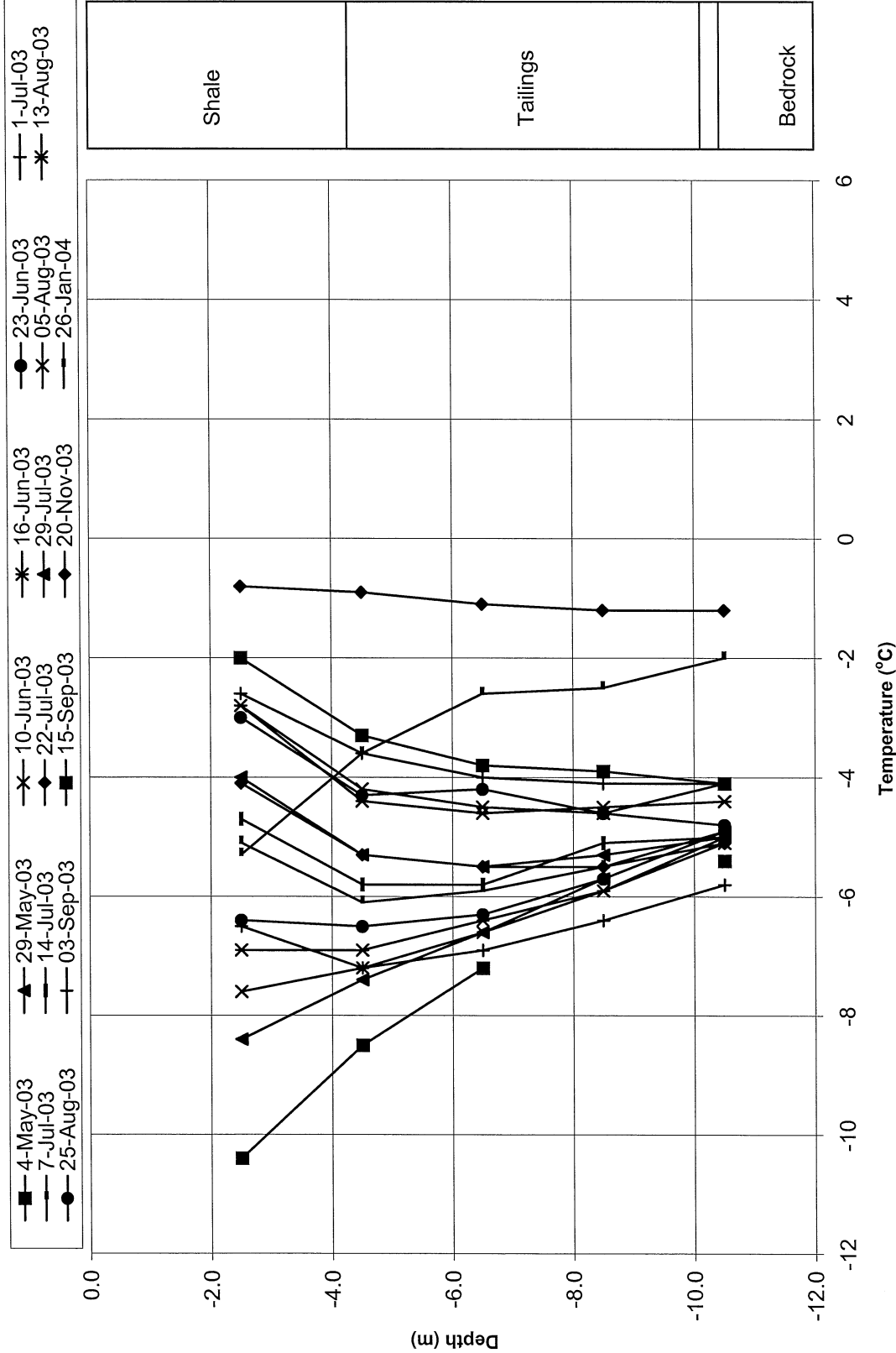
Geothermal Monitoring
West Twin Dike
Thermocouple TC 29



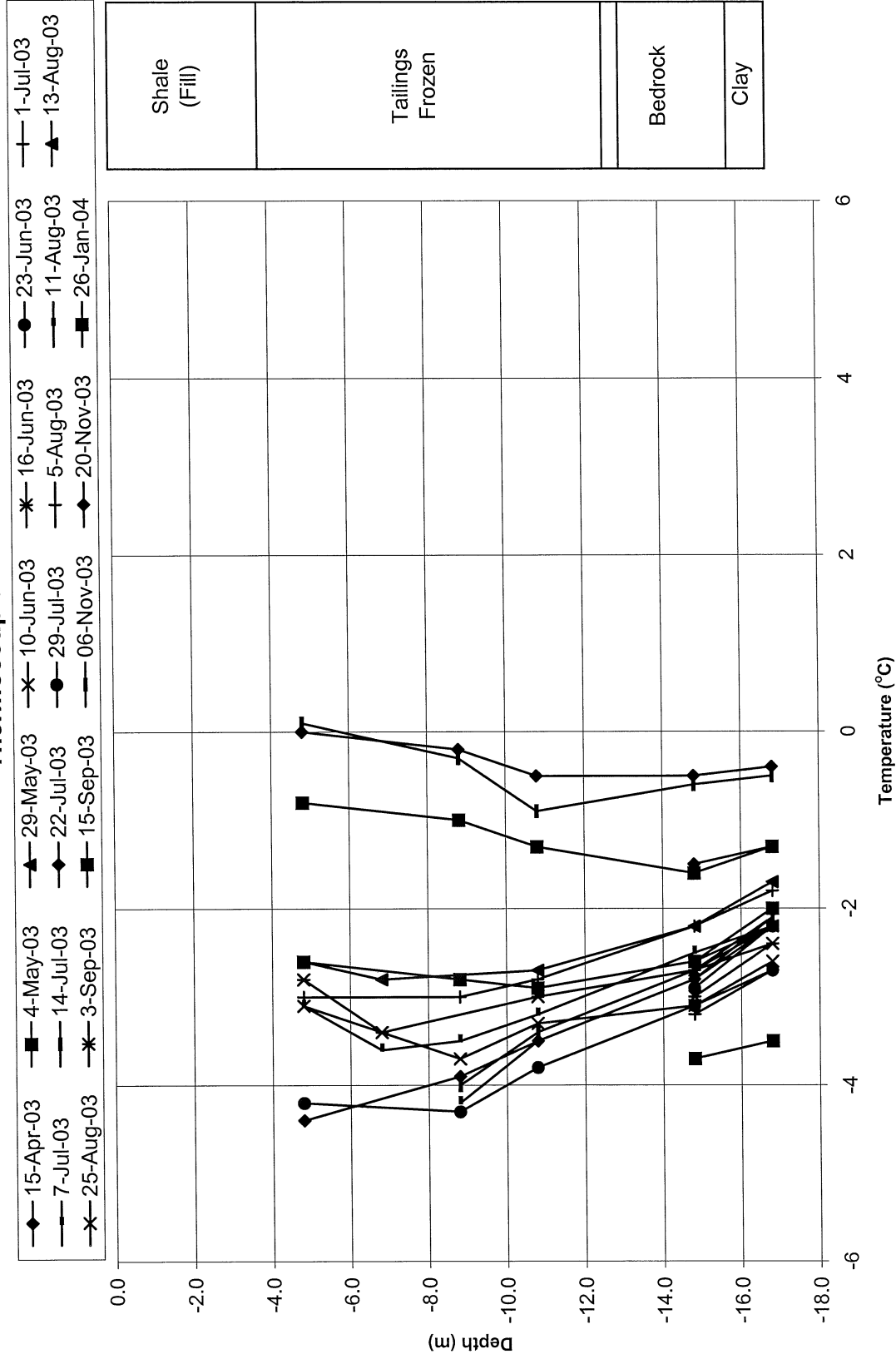
Geothermal Monitoring

West Twin Dike

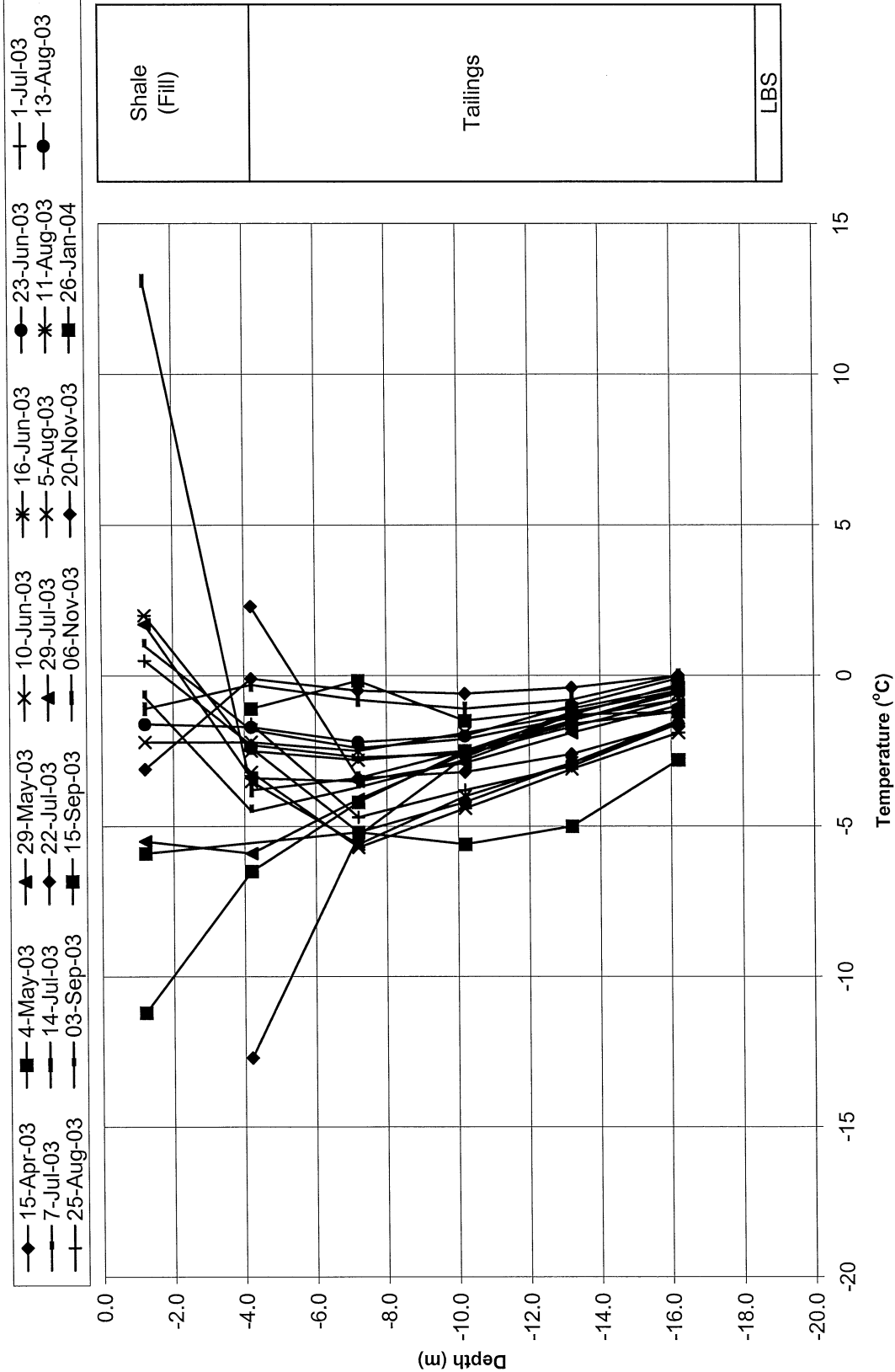
Thermocouple TC 31



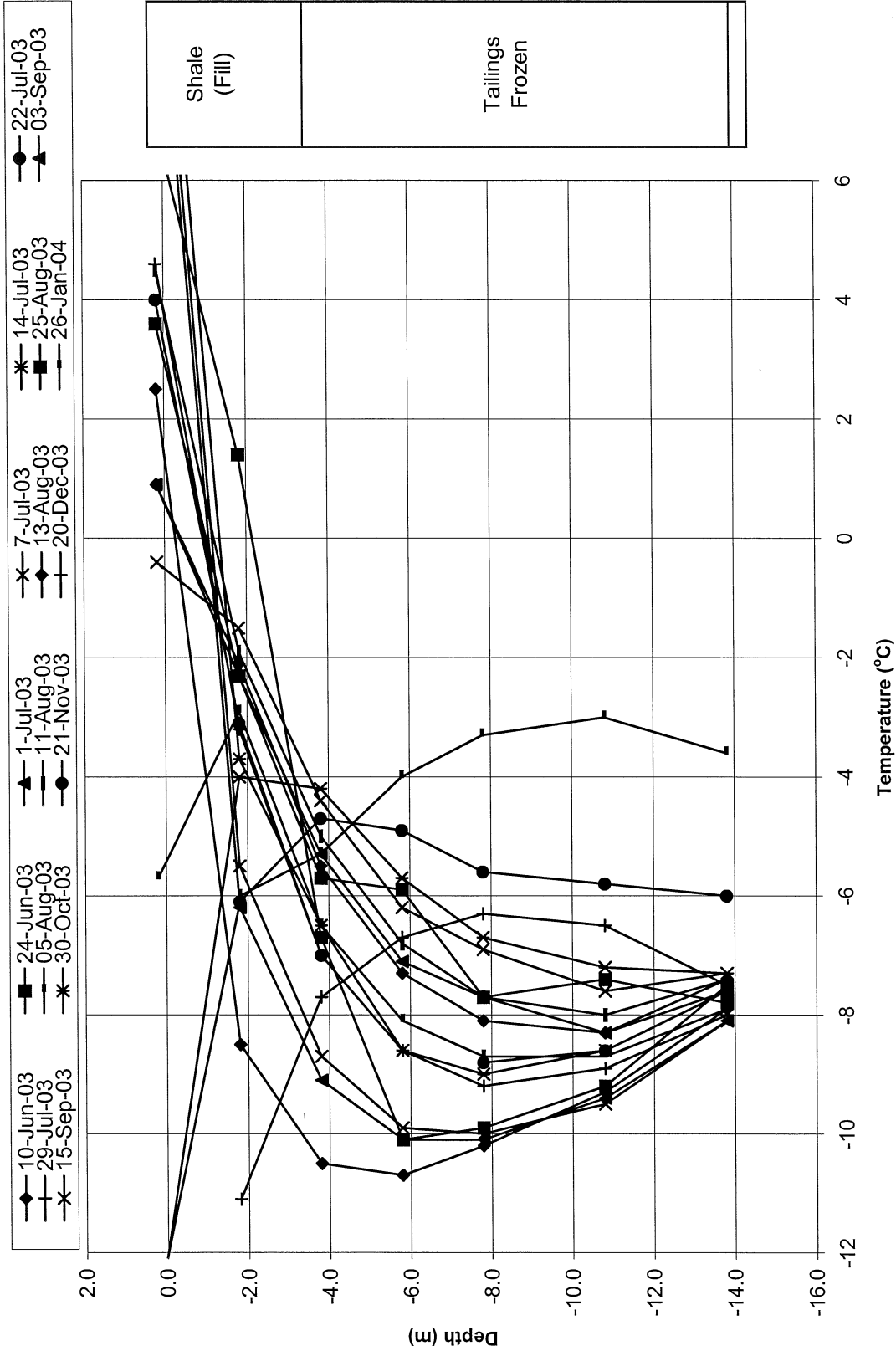
Geothermal Monitoring
West Twin Dike
Thermocouple TC 32



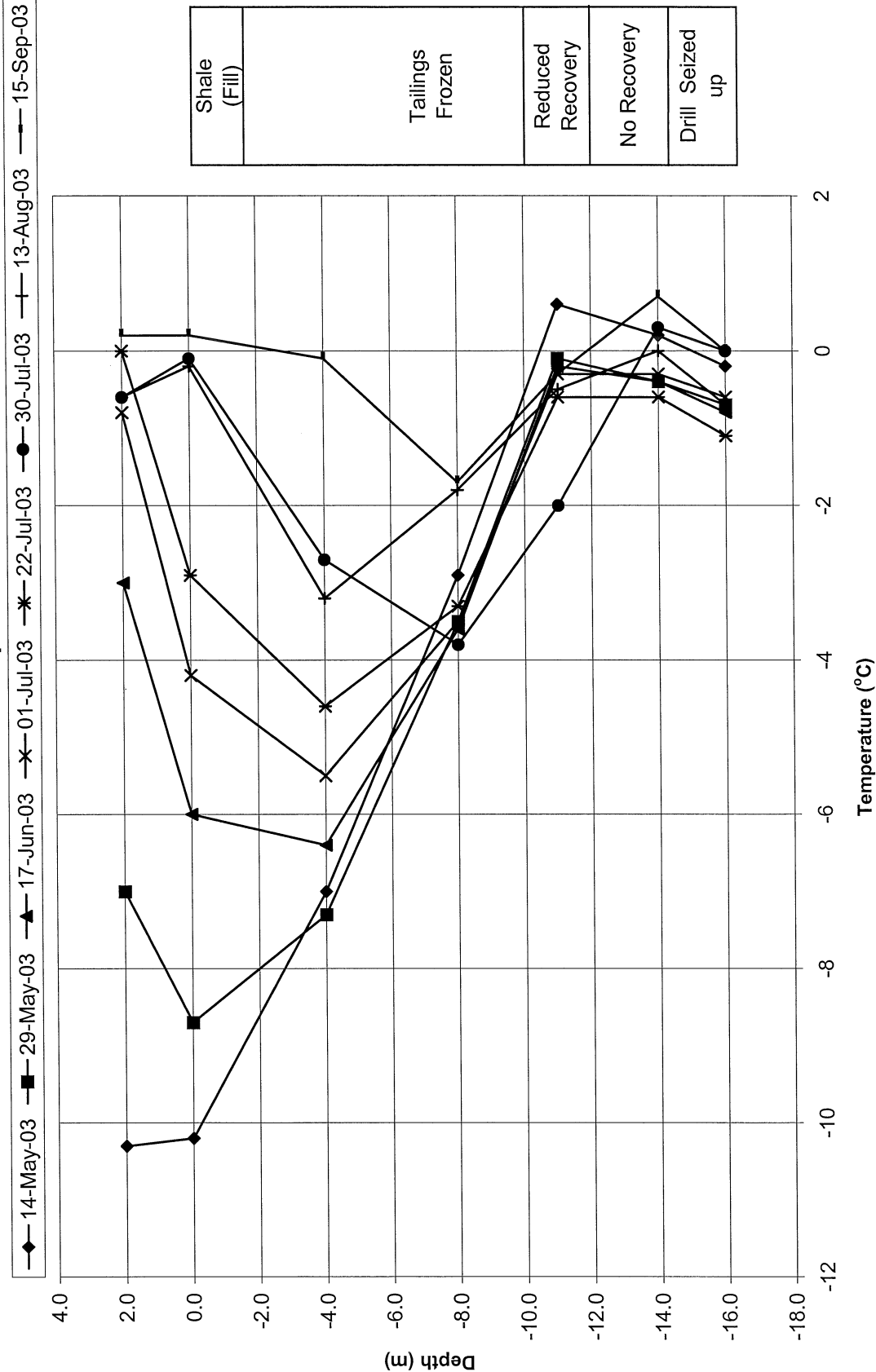
Geothermal Monitoring
West Twin Dike
Thermocouple TC 33



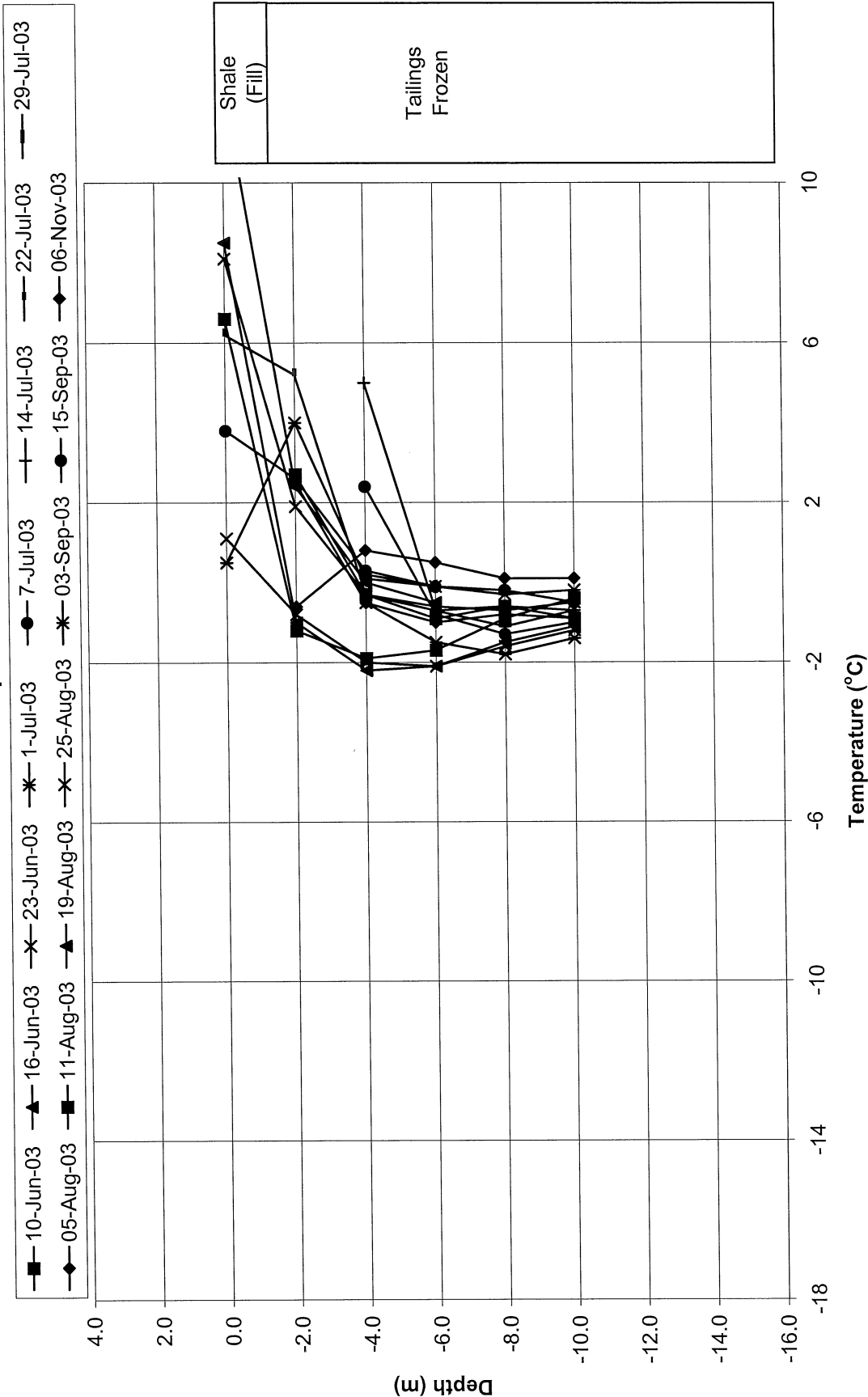
Geothermal Monitoring
West Twin Dike
Thermocouple TC 34



Geothermal Monitoring
West Twin Dike
Thermocouple TC 35



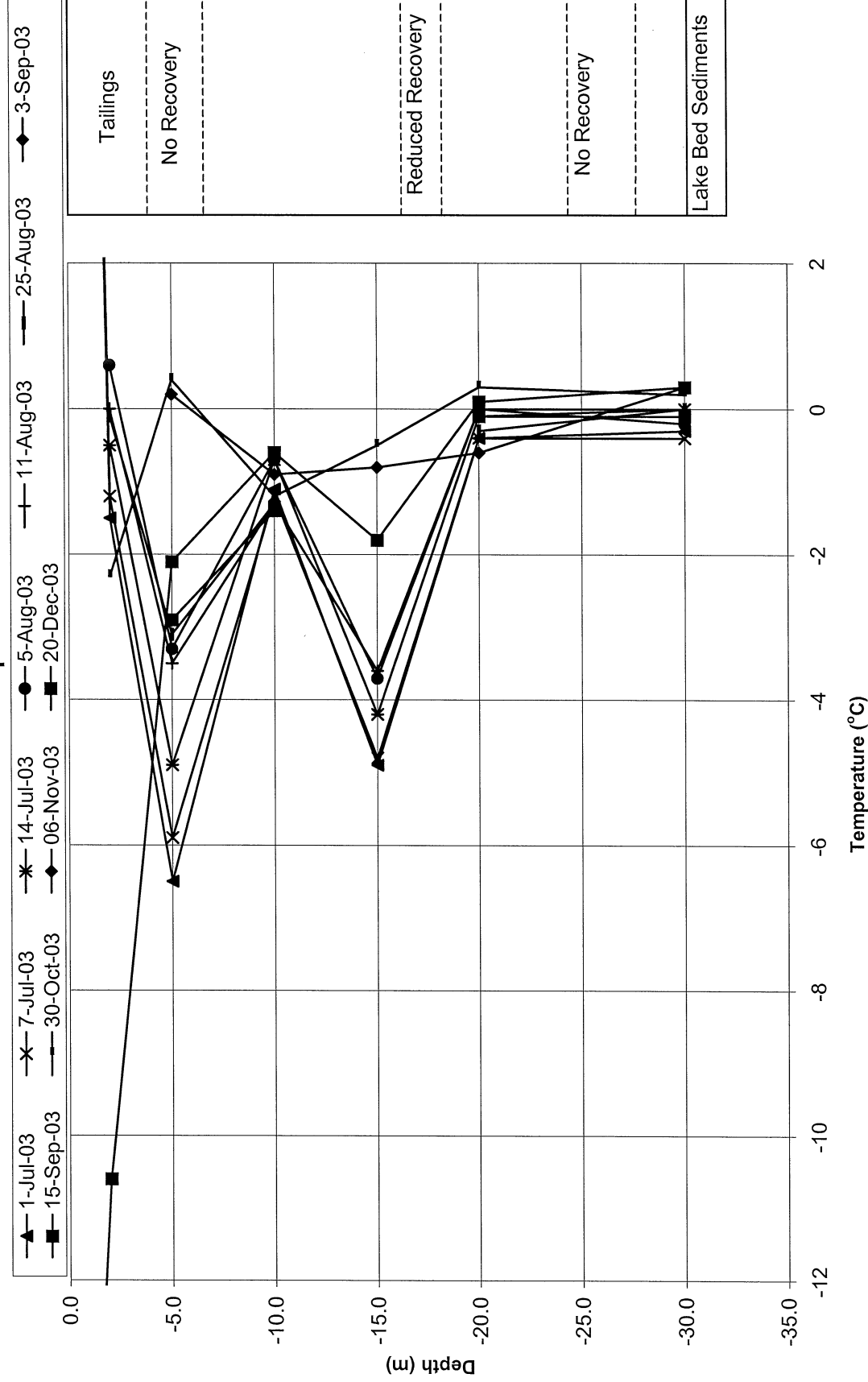
Geothermal Monitoring
Test Cell Dike
Thermocouple TC 36



Geothermal Monitoring

West Twin Dike

Thermocouple TC 37

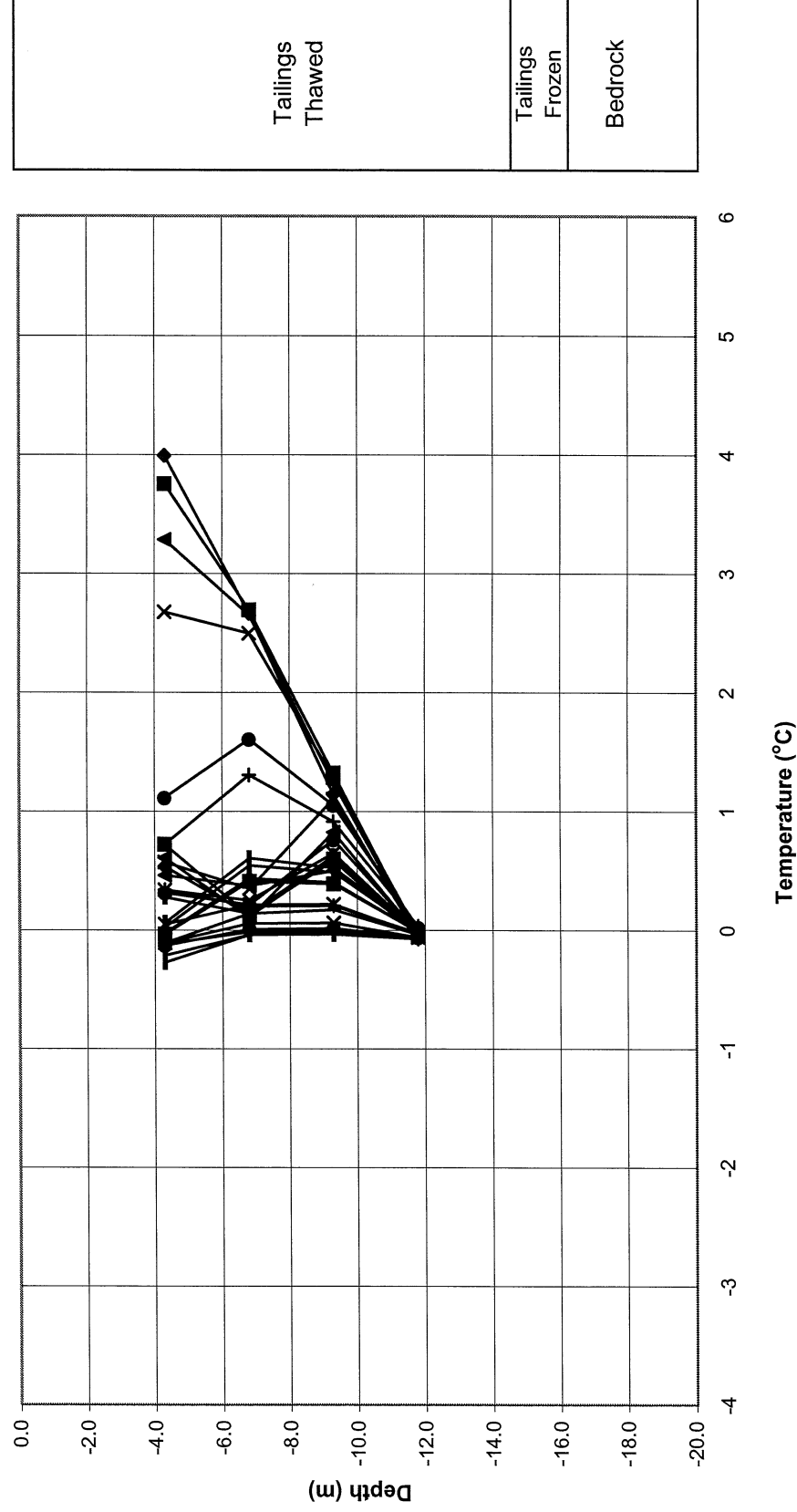


Geothermal Monitoring

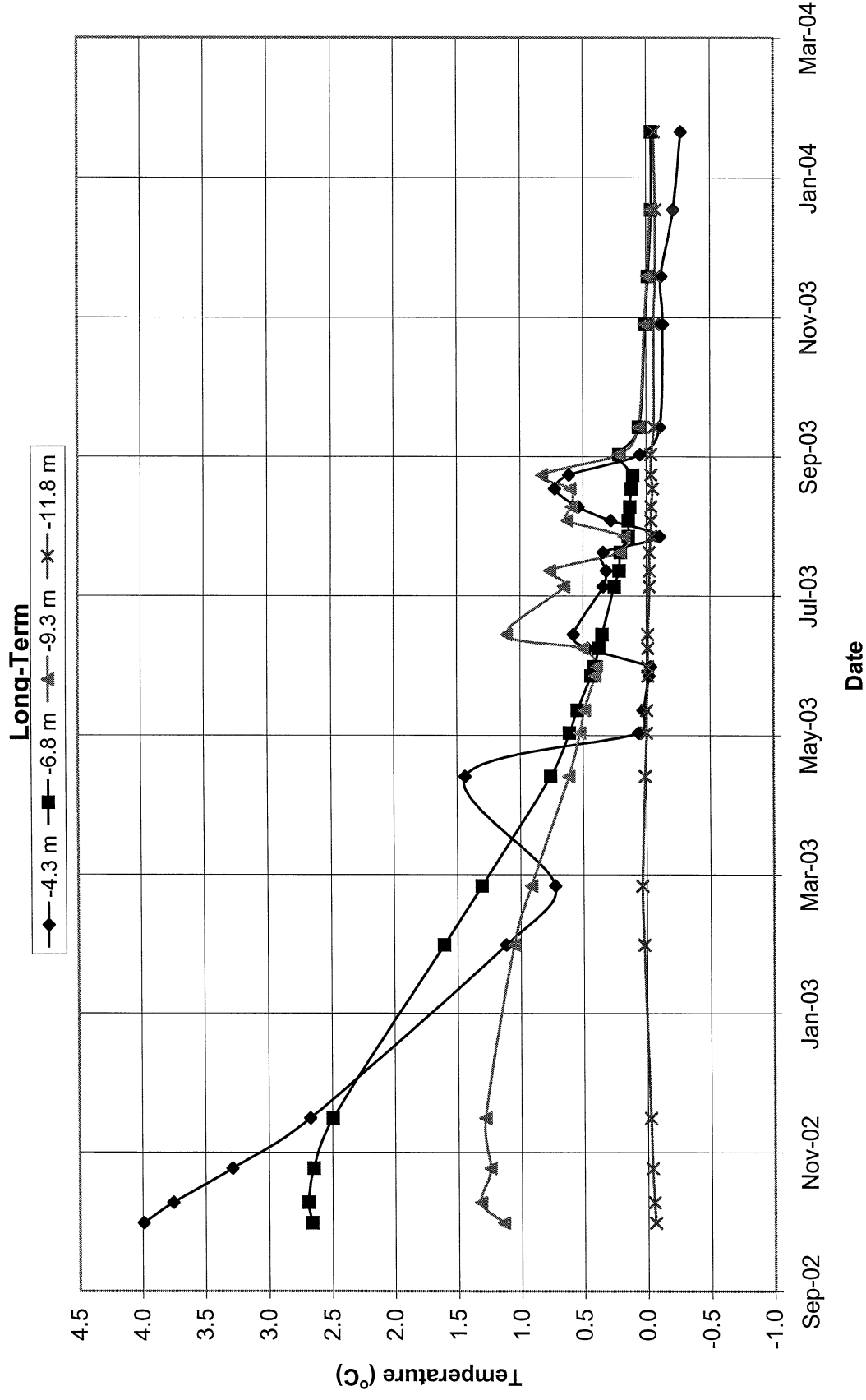
Surface Cell

Thermistor BGC02-03

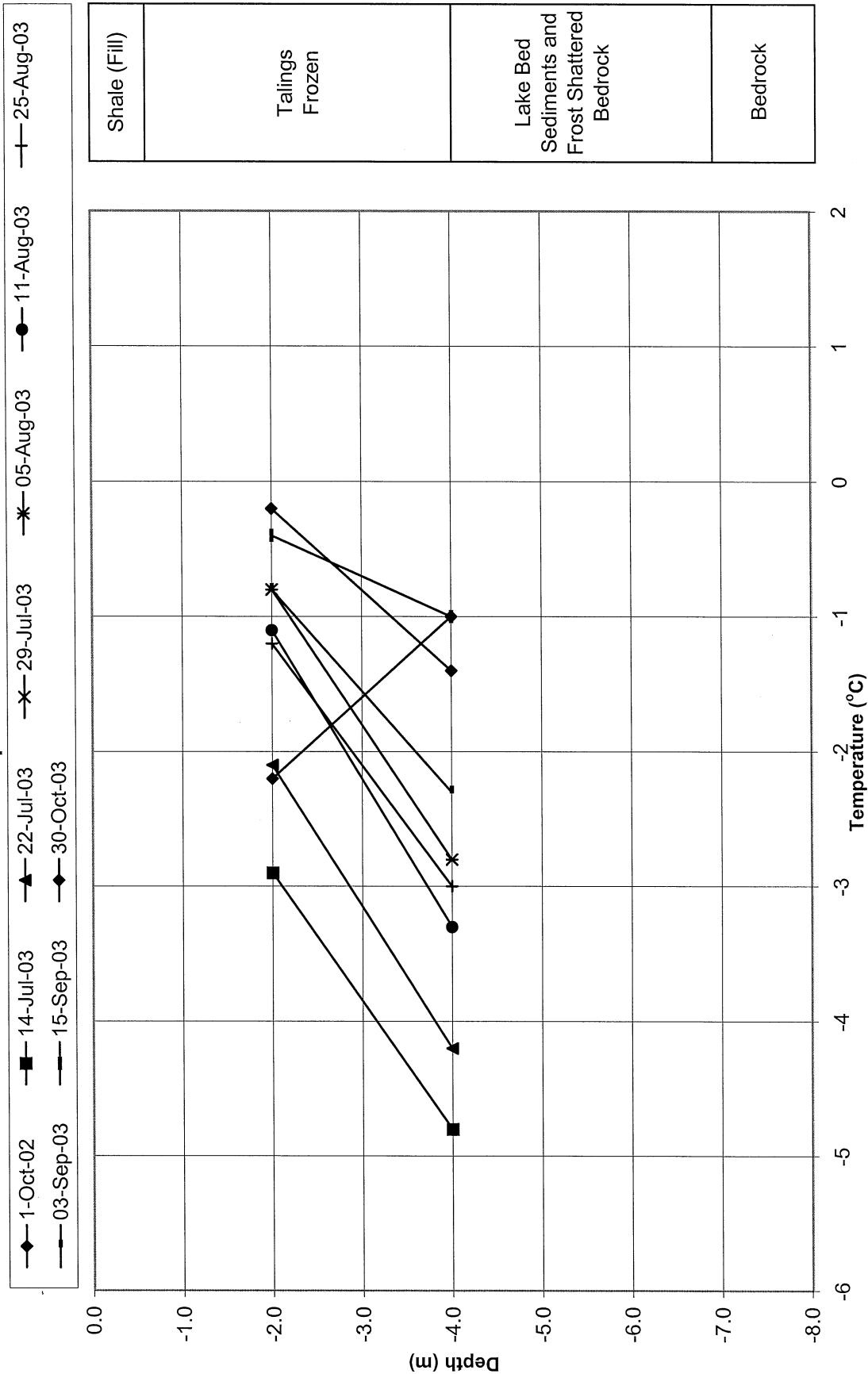
◆ 1-Oct-02	■ 10-Oct-02	▲ 25-Oct-02	✕ 16-Nov-02	✱ 18-Dec-02	● 31-Jan-03	— 26-Feb-03
— 4-May-03	— 14-May-03	◆ 29-May-03	■ 2-Jun-03	▲ 10-Jun-03	✕ 16-Jun-03	✱ 7-Jul-03
● 14-Jul-03	— 22-Jul-03	— 29-Jul-03	— 5-Aug-03	◆ 11-Aug-03	■ 19-Aug-03	▲ 25-Aug-03
✕ 3-Sep-03	✱ 15-Sep-03	— 30-Oct-03	— 20-Nov-03	— 19-Dec-03	— 22-Jan-04	



**Geothermal Monitoring
Surface Cell
Thermistor BGC02-03**

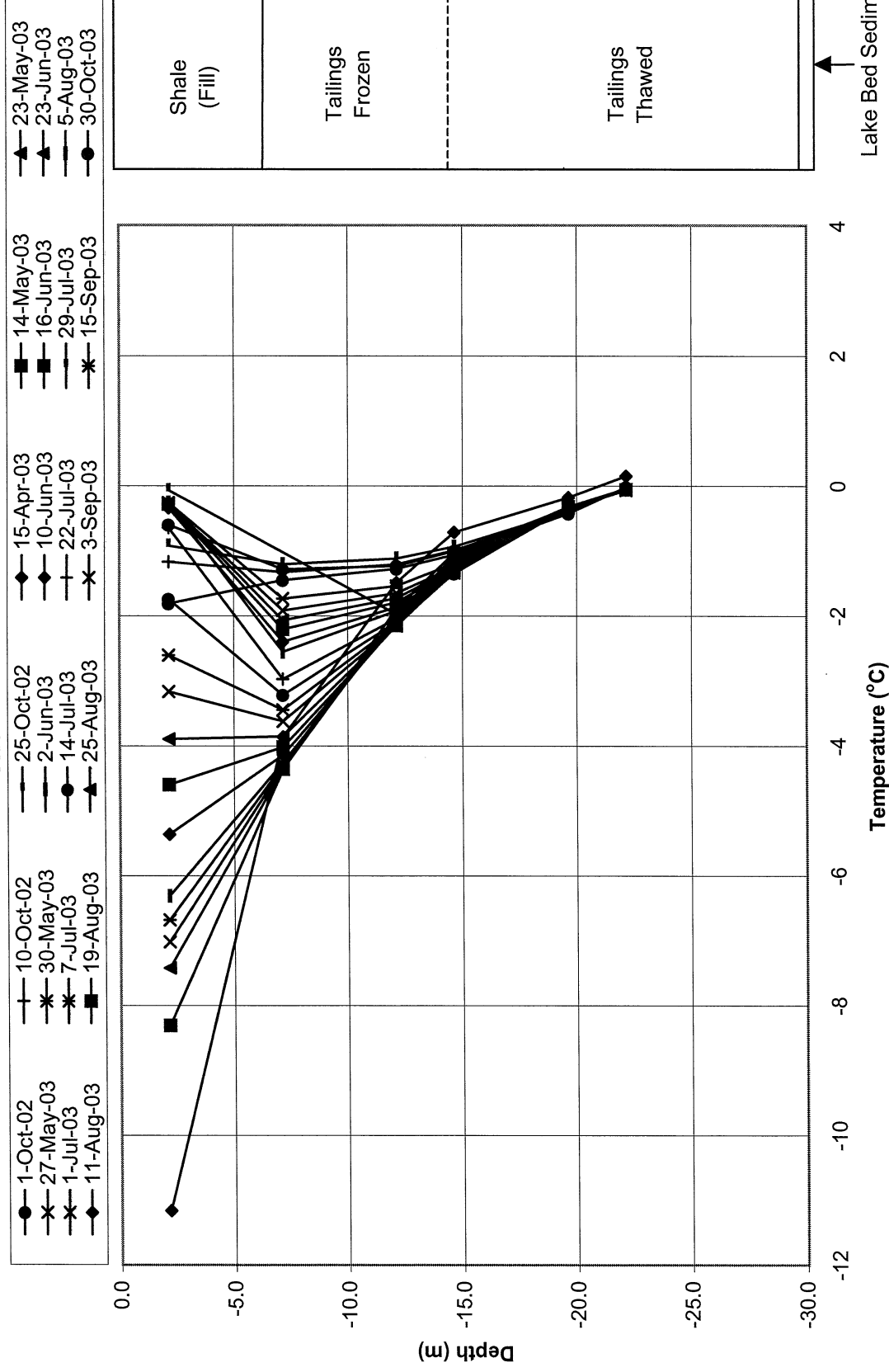


Geothermal Monitoring
South Toe of Dike
Thermocouple BGC02-08



Geothermal Monitoring Test Cell Dike

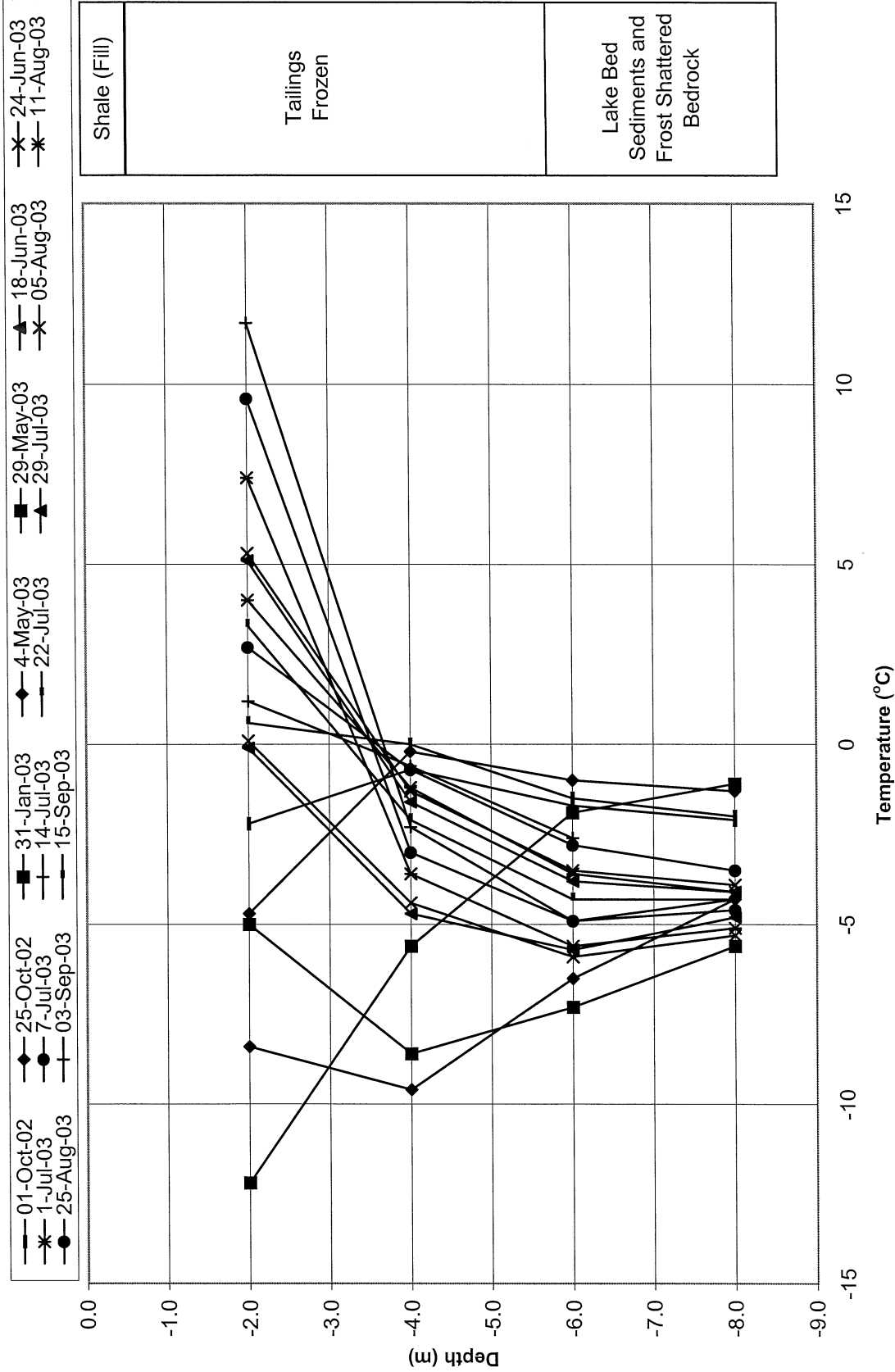
Thermistor BGC02-09



Geothermal Monitoring

Toe of WTD

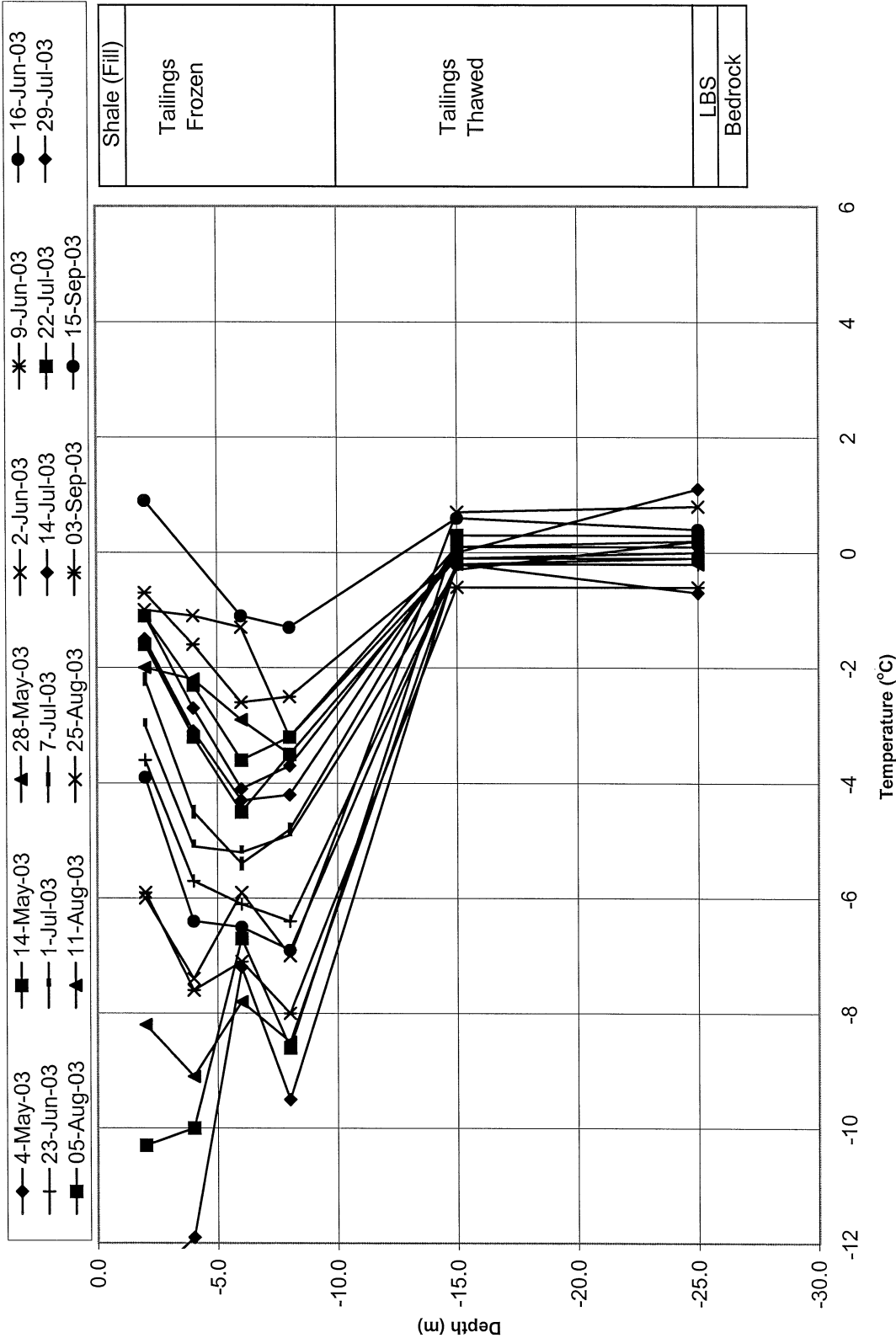
Thermocouple BGC02-10



Geothermal Monitoring

Surface Cell

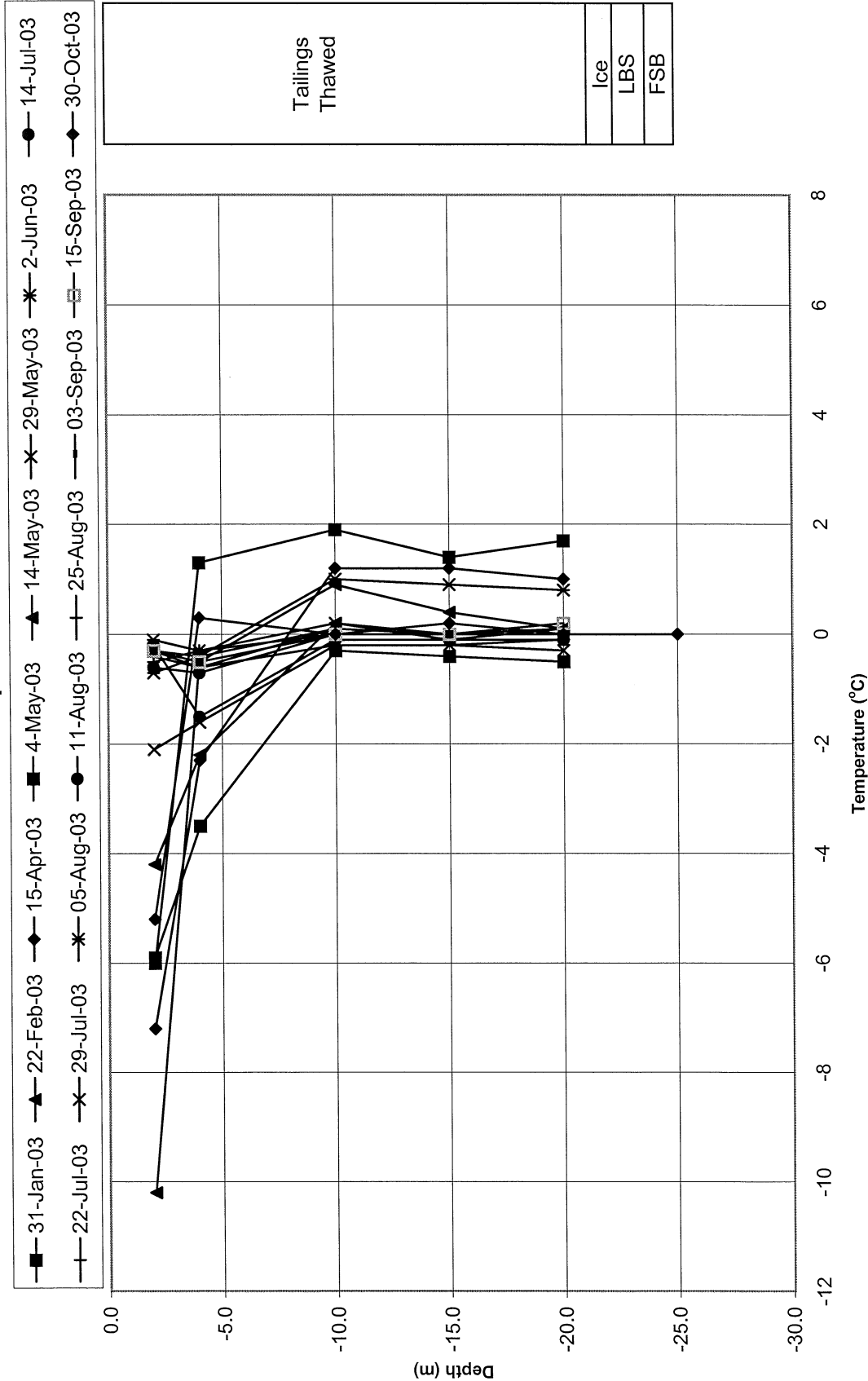
Thermocouple BGC02-11



Geothermal Monitoring

Surface Cell

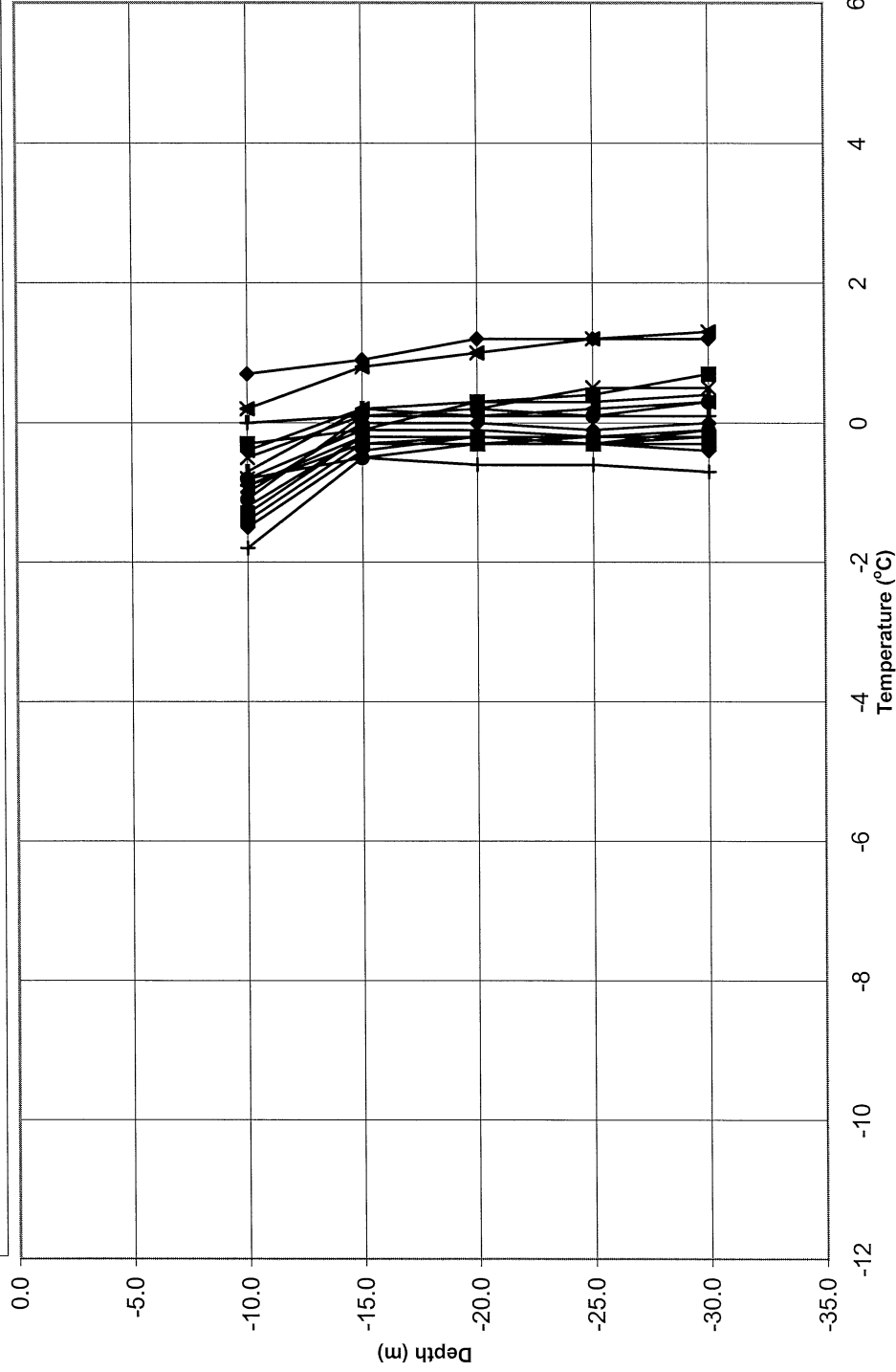
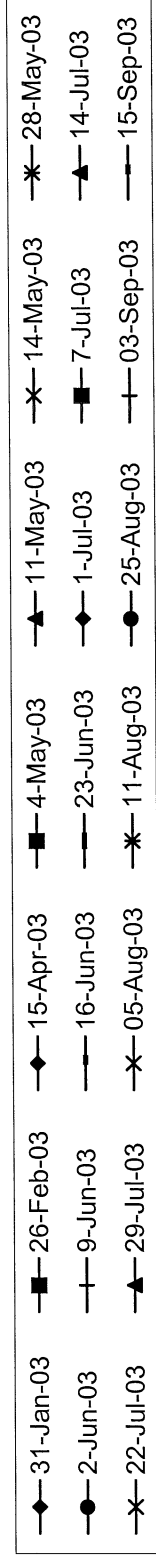
Thermocouple BGC02-12



Geothermal Monitoring

Surface Cell

Thermocouple BGC02-13



Shale
(Fill)

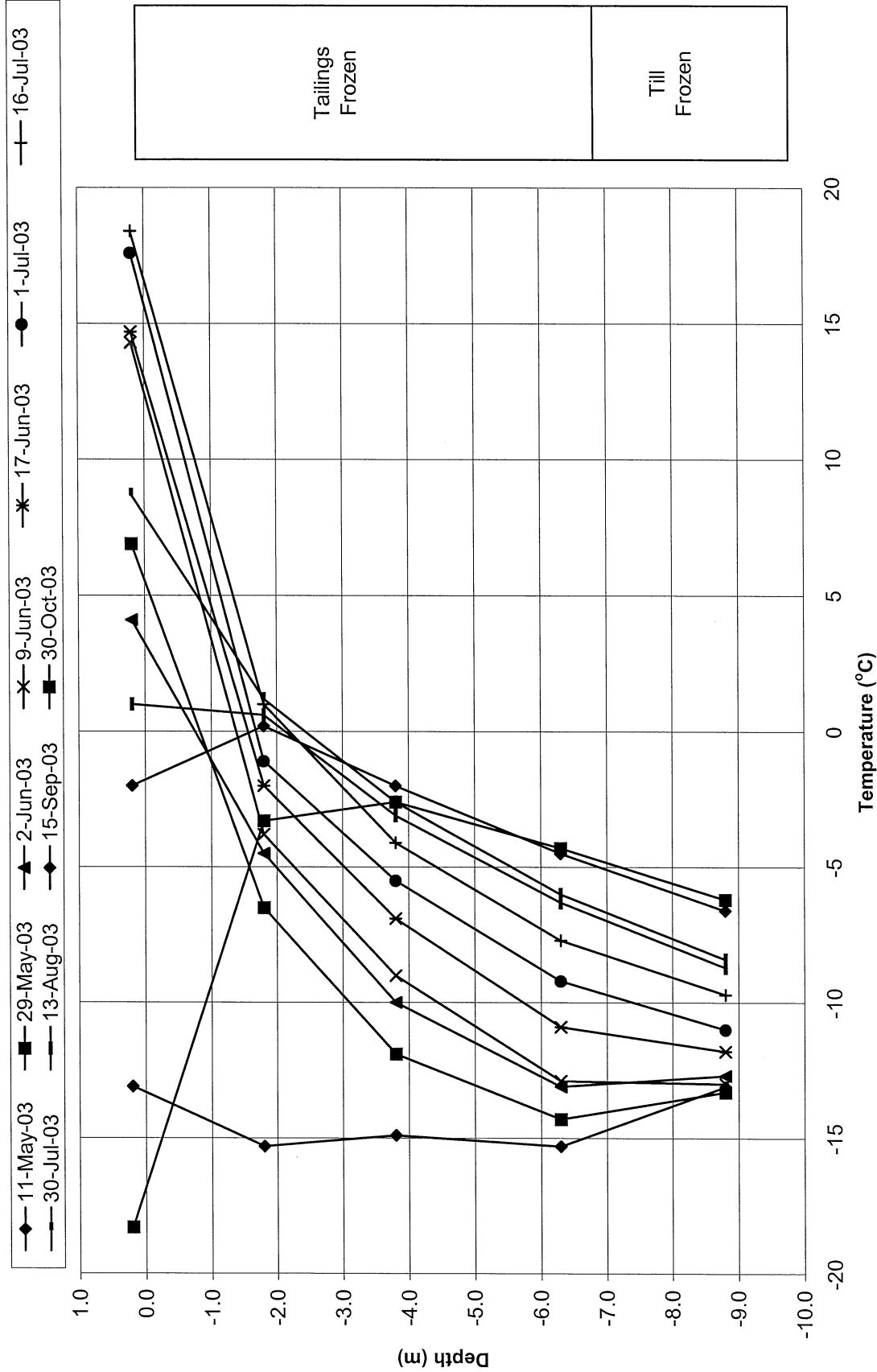
Tailings
Frozen,
Well bonded

Tailings
Thawed

Geothermal Monitoring

Surface Cell

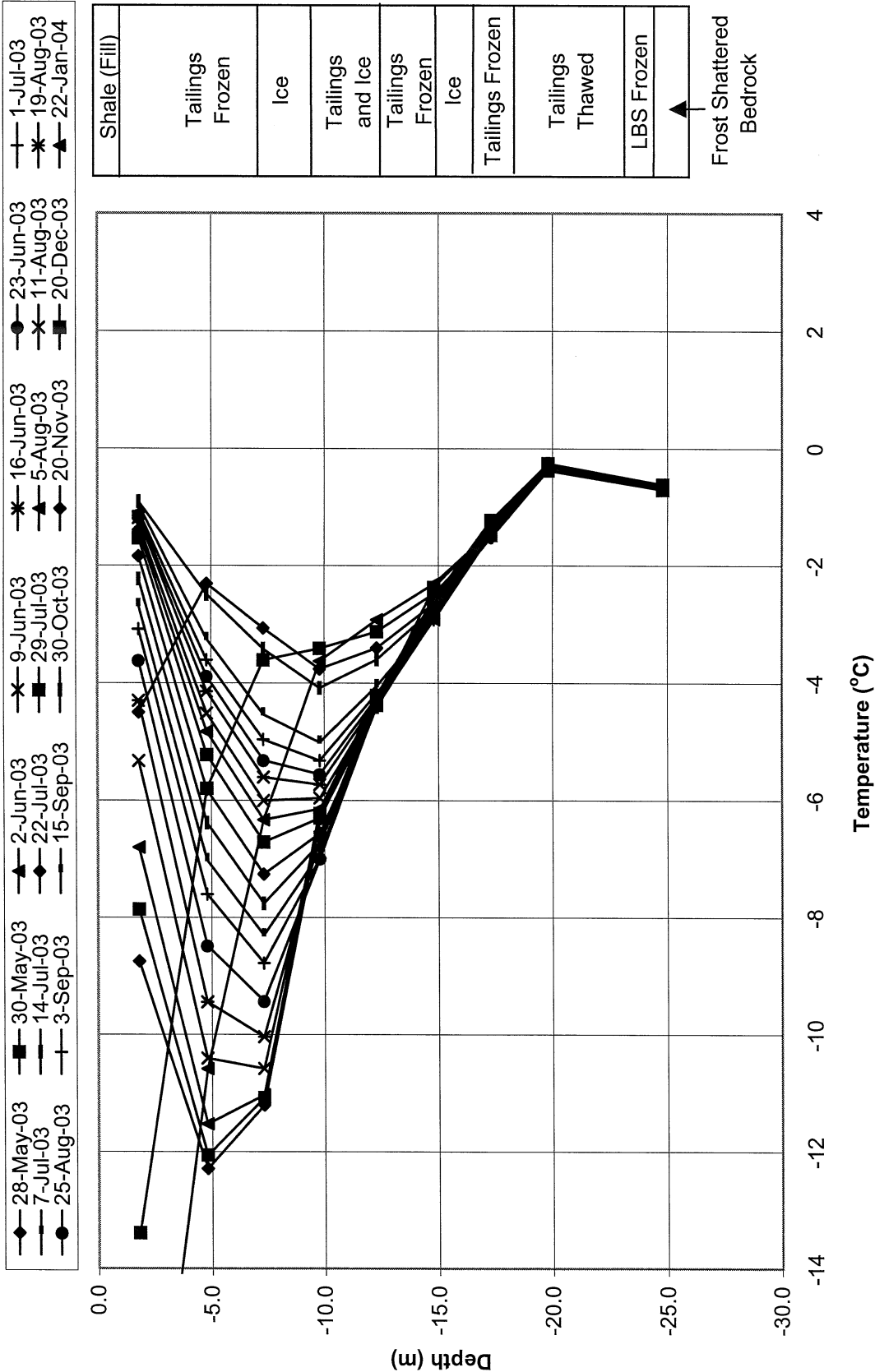
Thermocouple BGC03-03



Geothermal Monitoring

Surface Cell

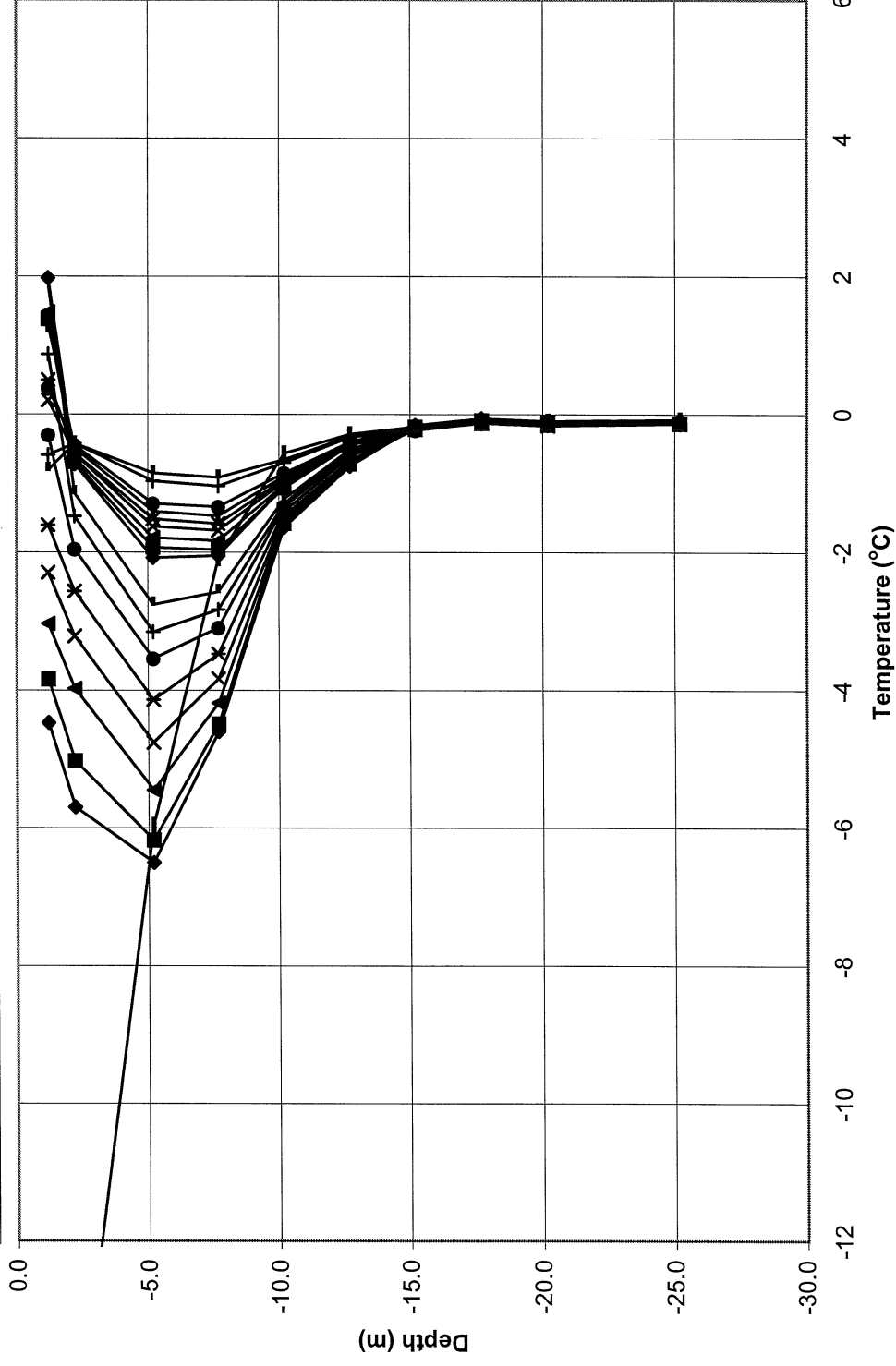
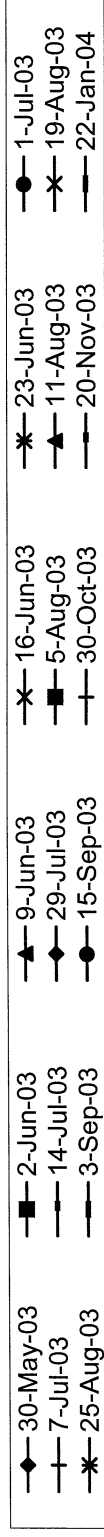
Thermistor BGC03-07



Geothermal Monitoring

Surface Cell

Thermistor BGC03-09



Shale
(Fill)

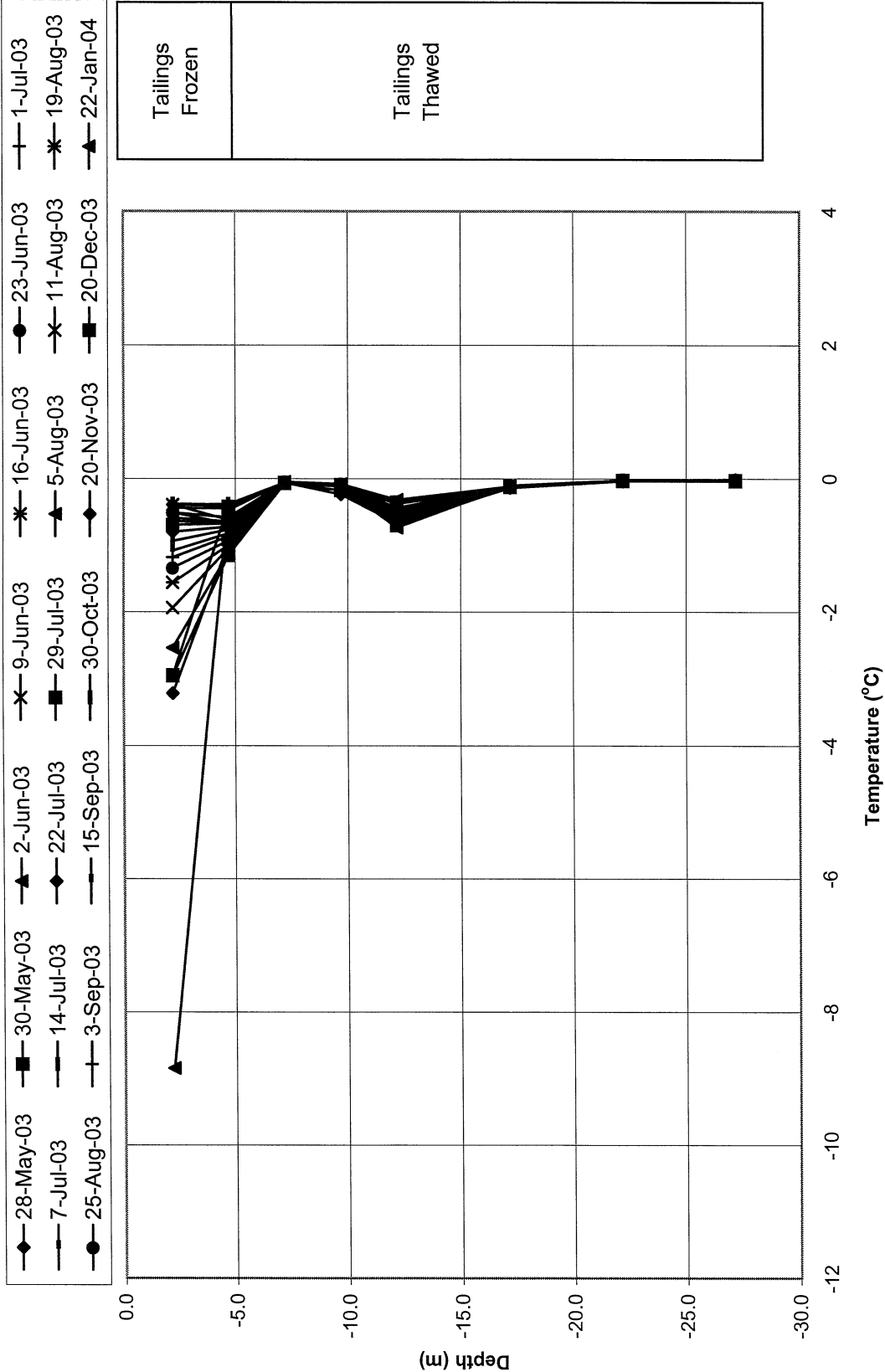
Tailings
Frozen

Tailings
Thawed

Geothermal Monitoring

Surface Cell

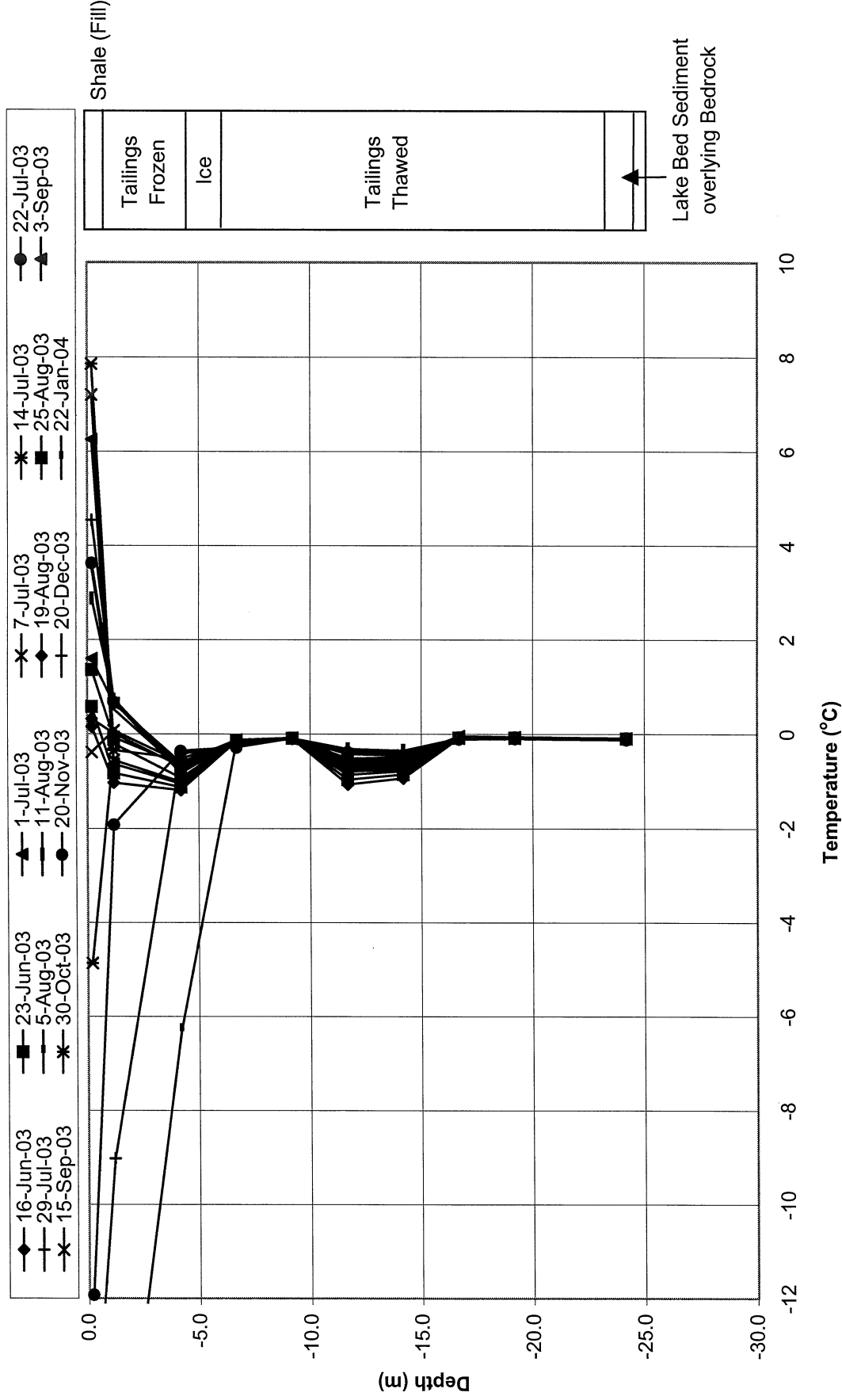
Thermistor BGC03-10



Geothermal Monitoring

Surface Cell

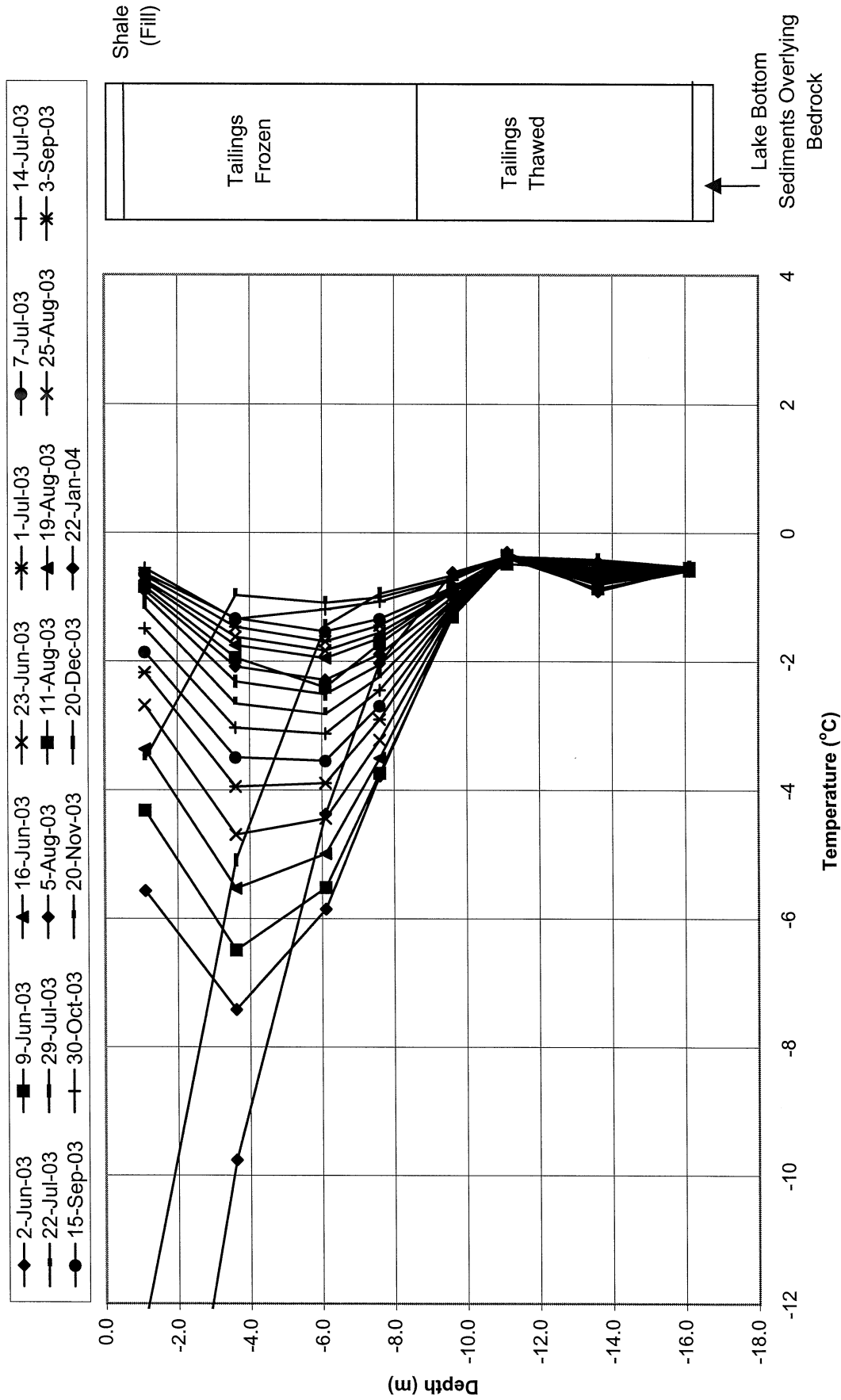
Thermistor BGC03-11



Geothermal Monitoring

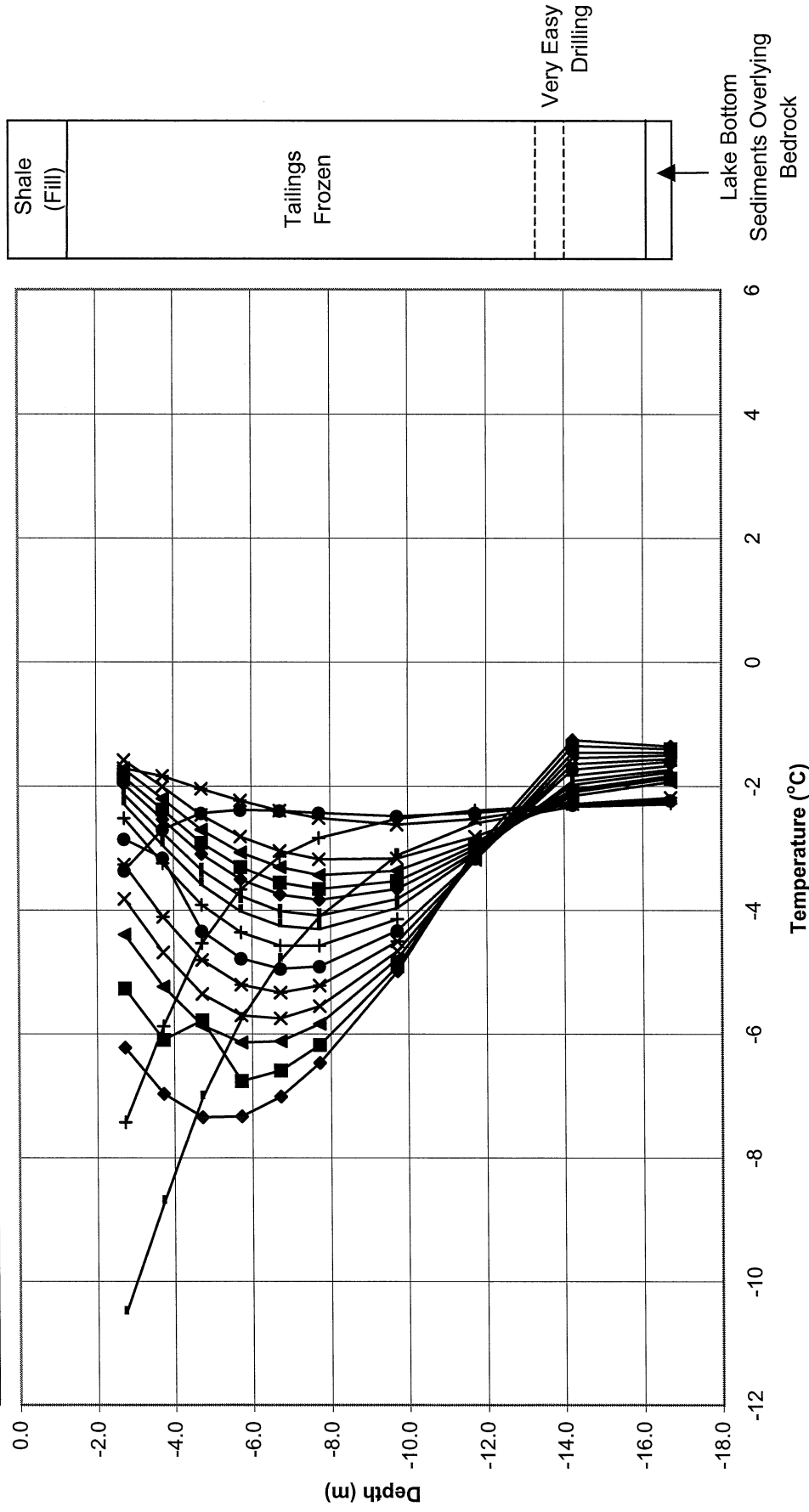
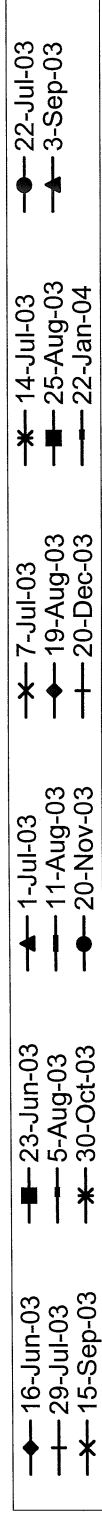
Surface Cell

Thermistor BGC03-13

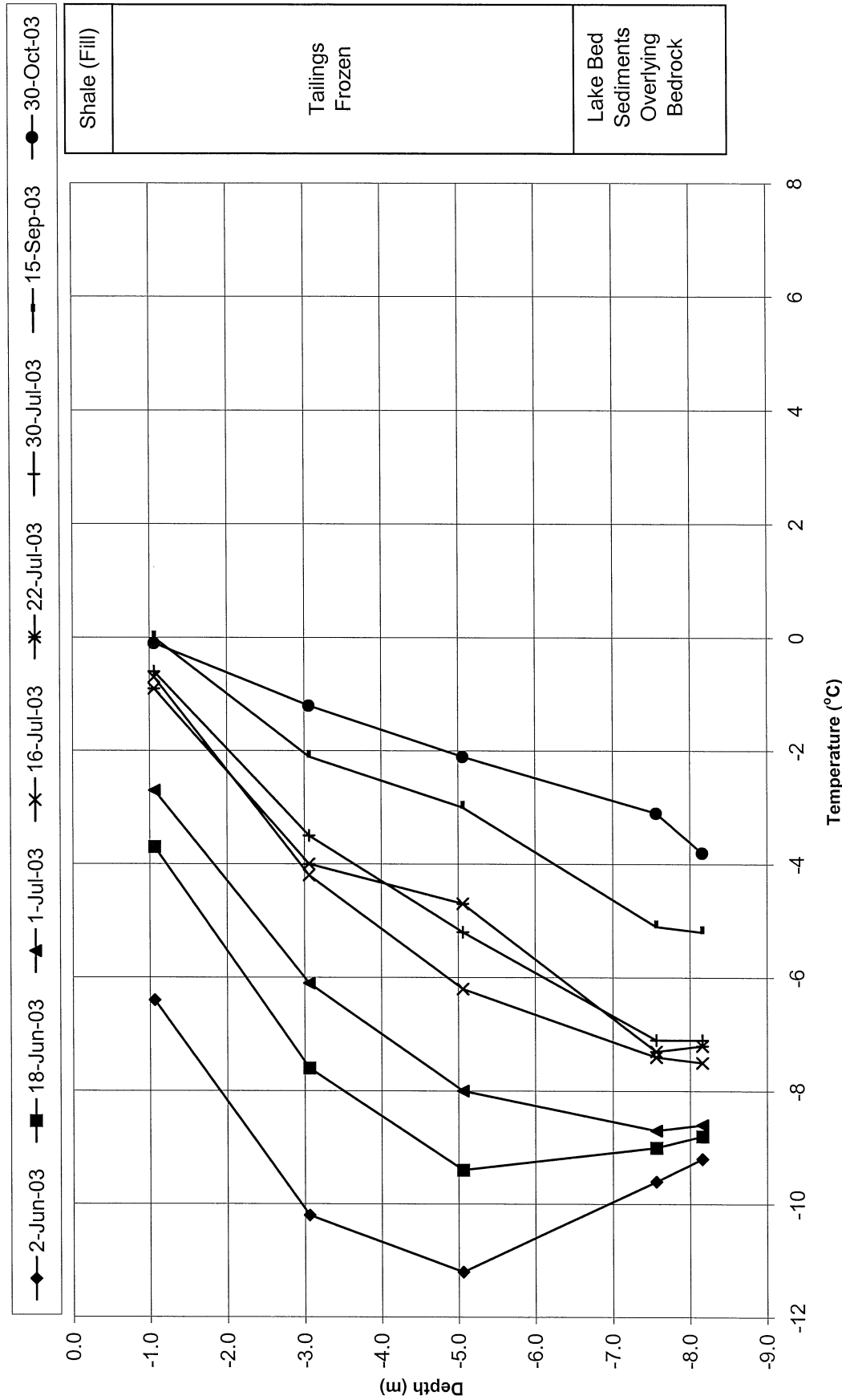


Geothermal Monitoring Surface Cell

Thermistor BGC03-15



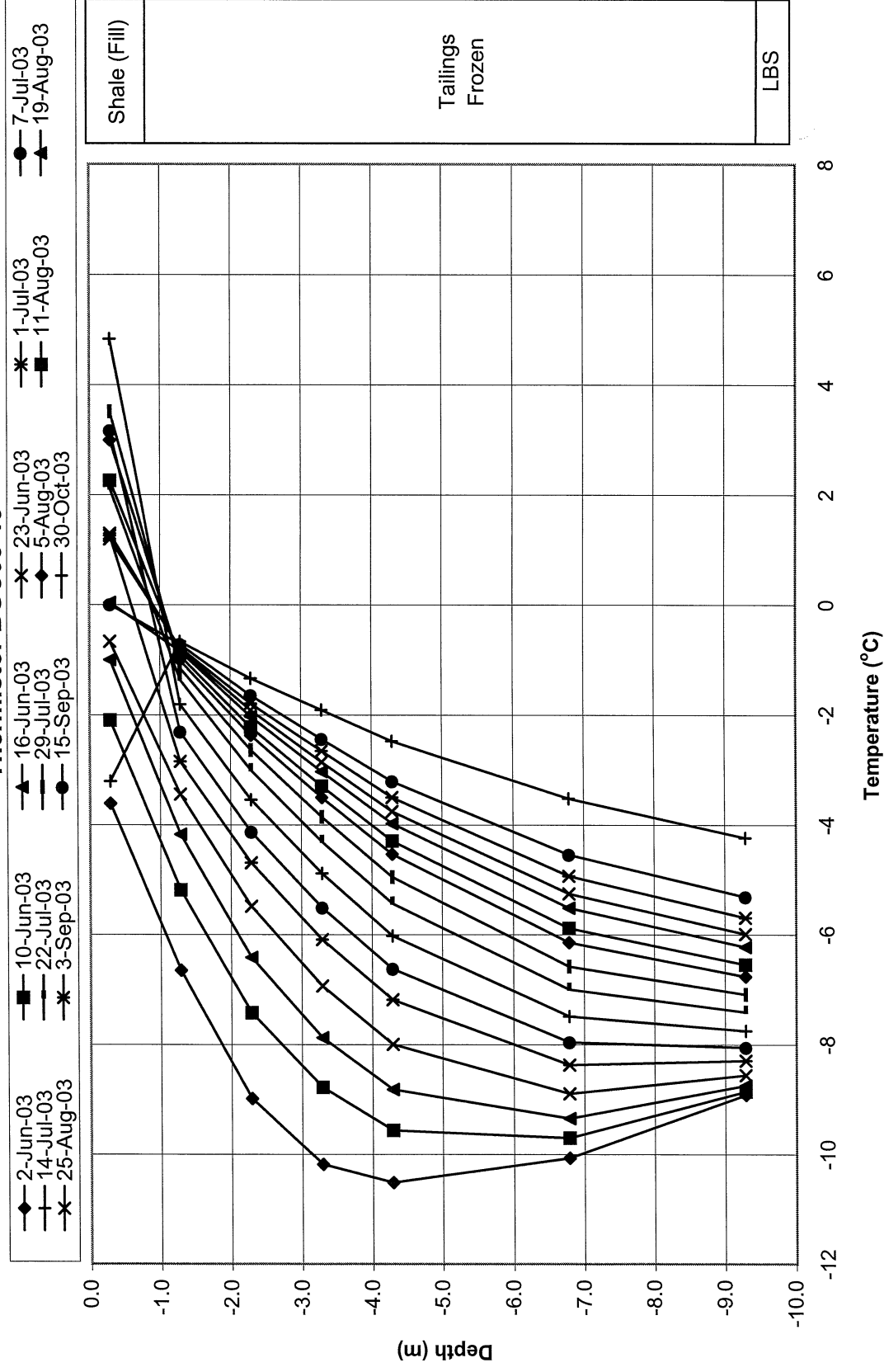
Geothermal Monitoring
Toe of WTL Dike
Thermocouple BGC03-18



Geothermal Monitoring

Toe of WTL Dike

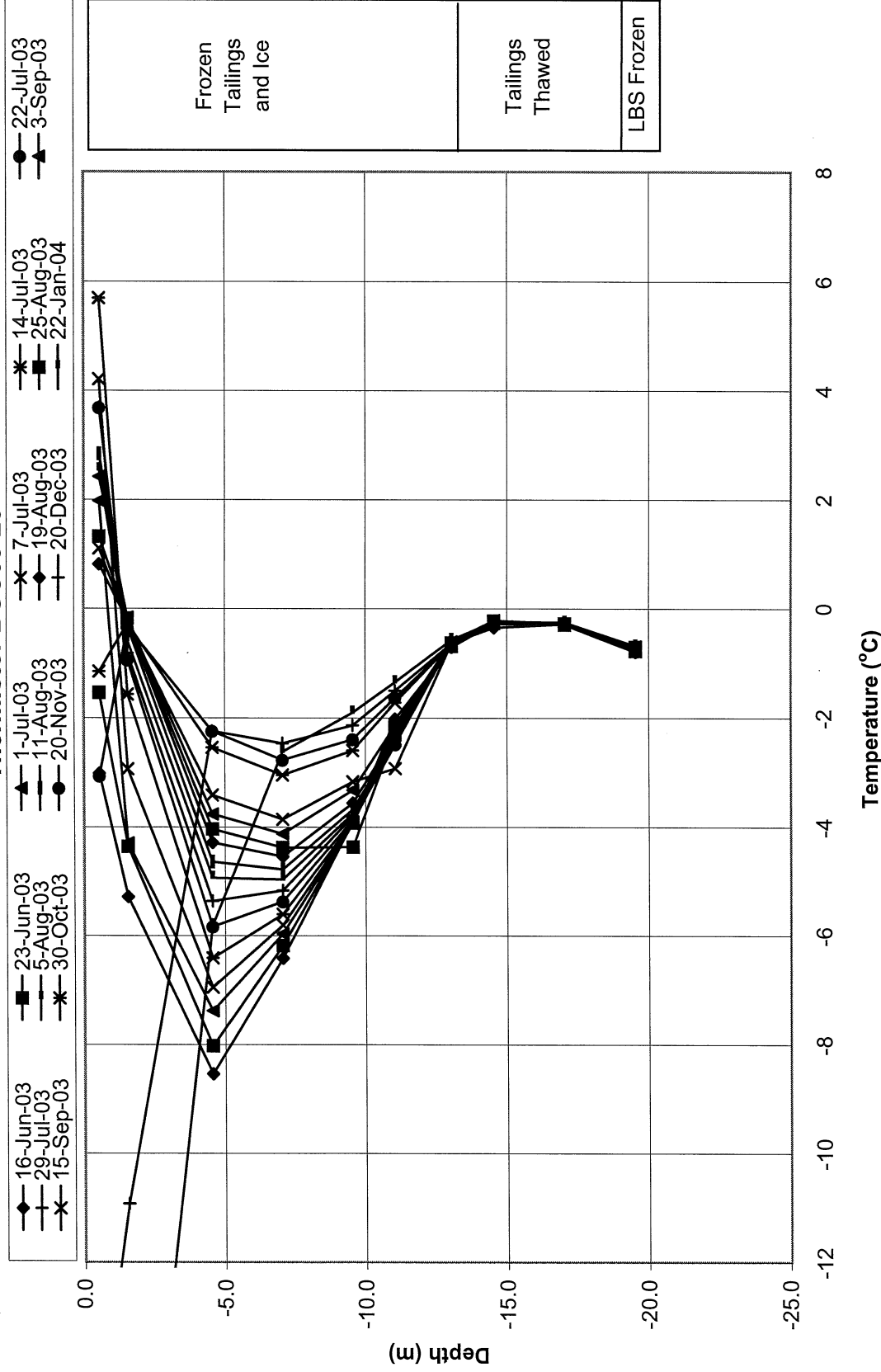
Thermistor BGC03-19



Geothermal Monitoring

Surface Cell

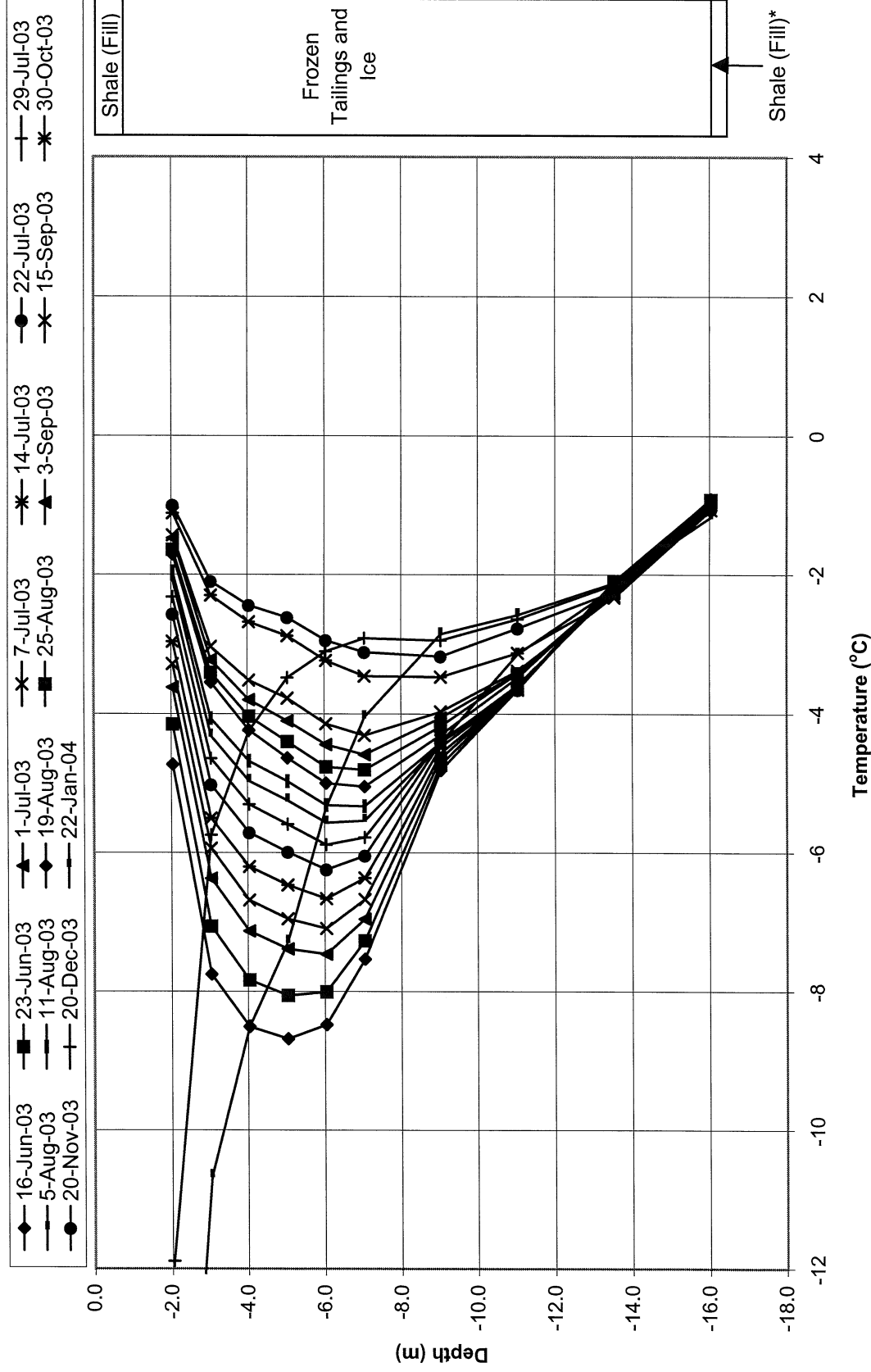
Thermistor BGC03-20



Geothermal Monitoring

Surface Cell

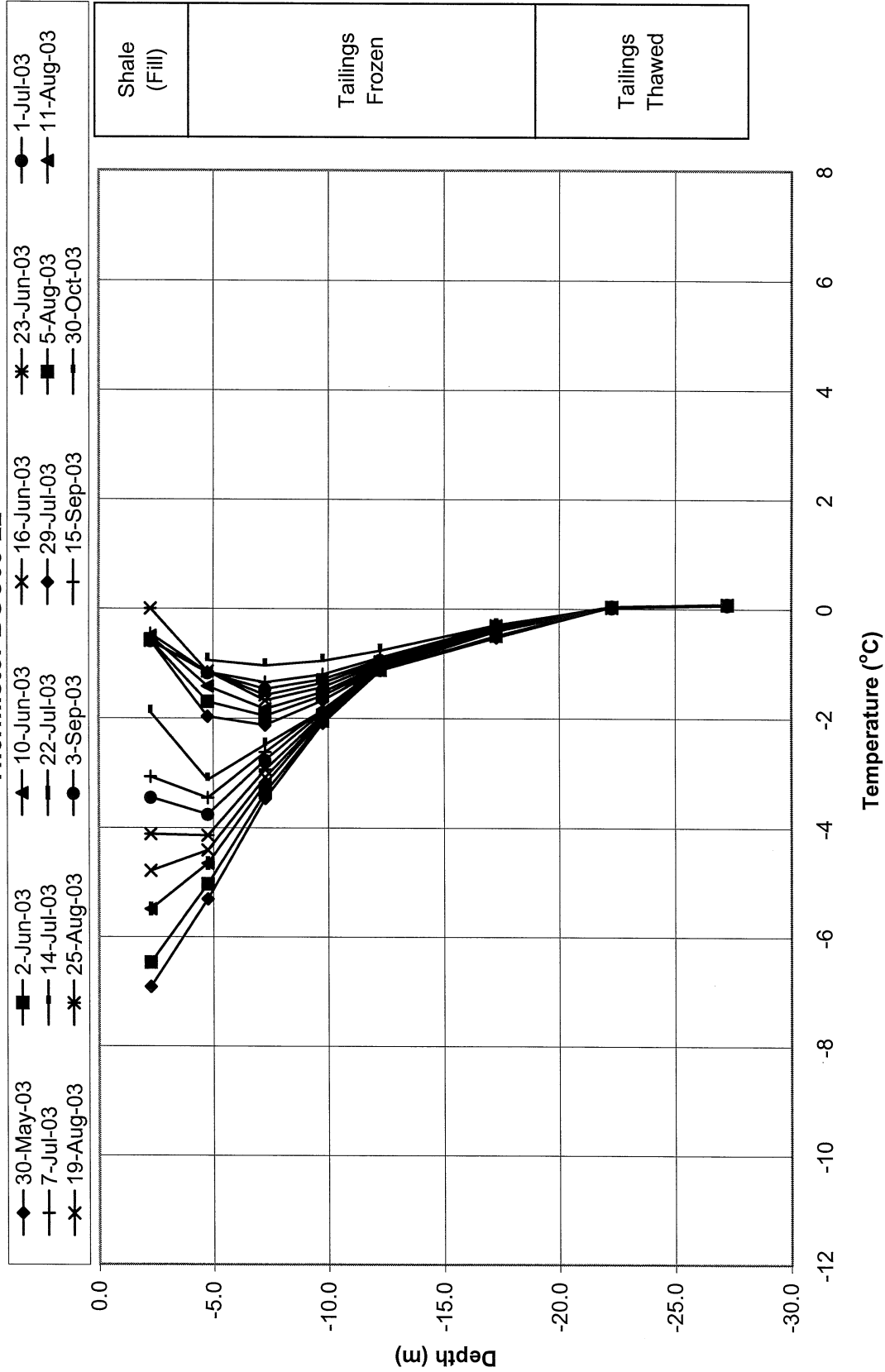
Thermistor BGC03-21



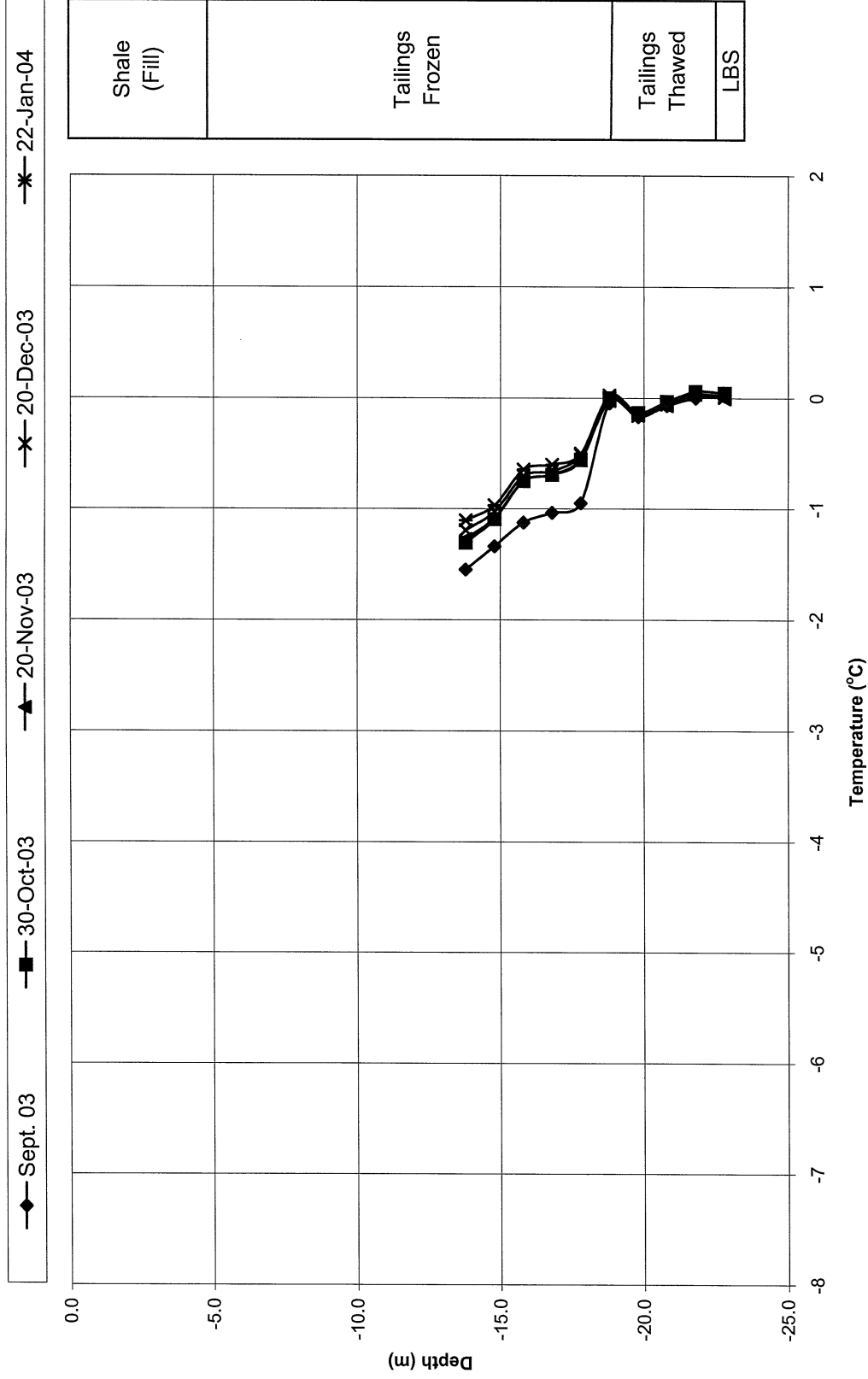
Geothermal Monitoring

Test Cell Dike

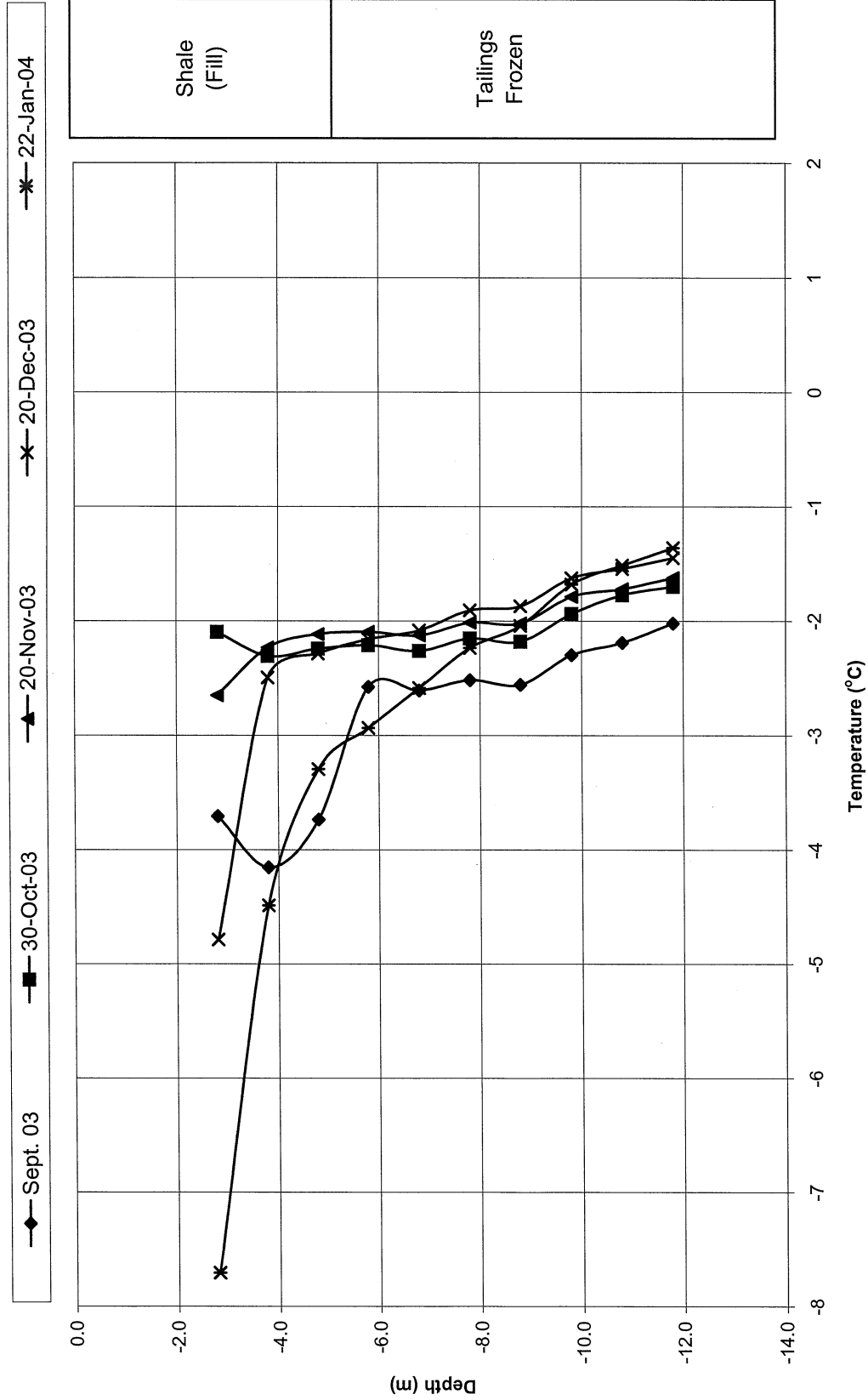
Thermistor BGC03-22



**Geothermal Monitoring
Surface Cell
Thermistor BGC03-33**

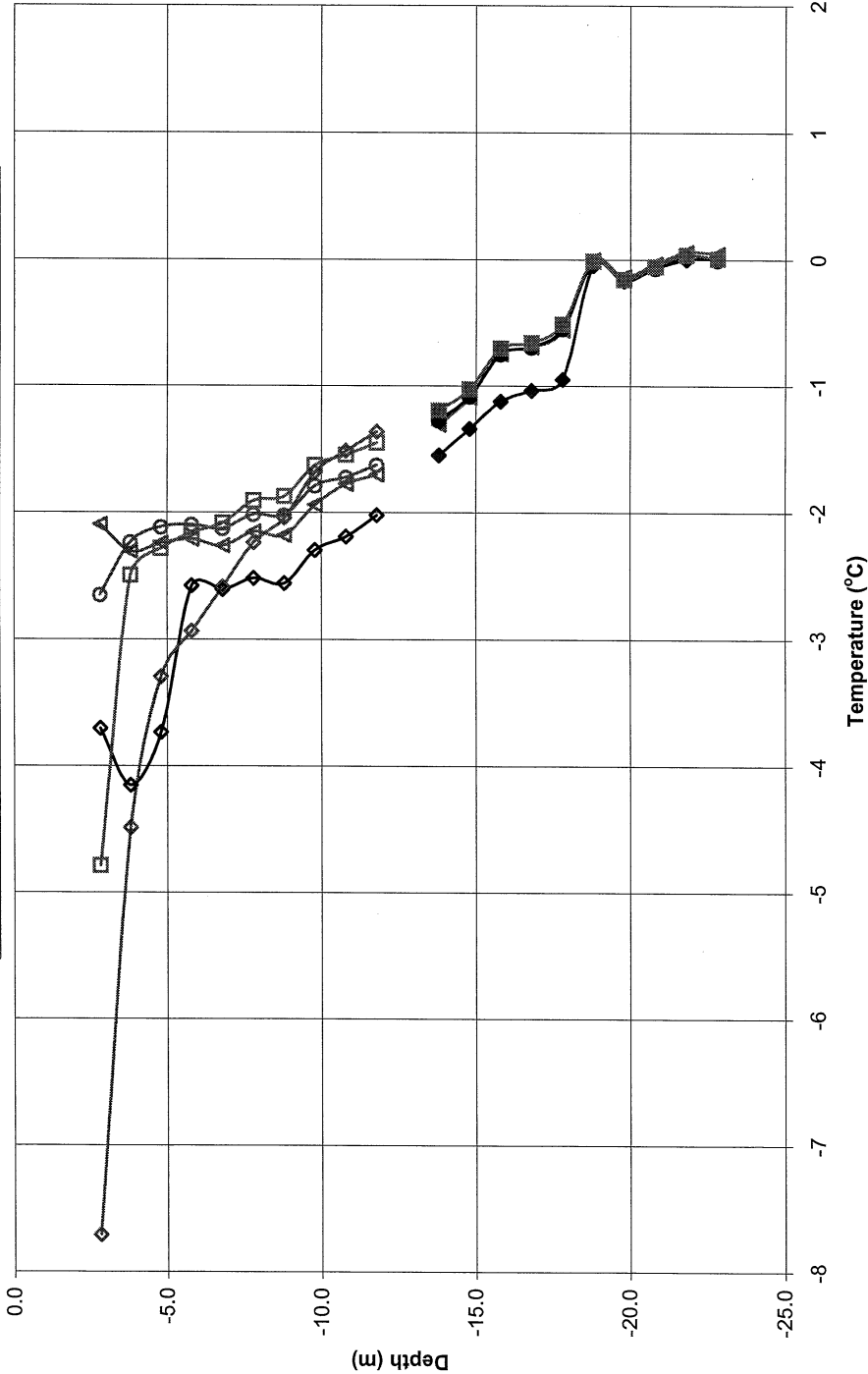
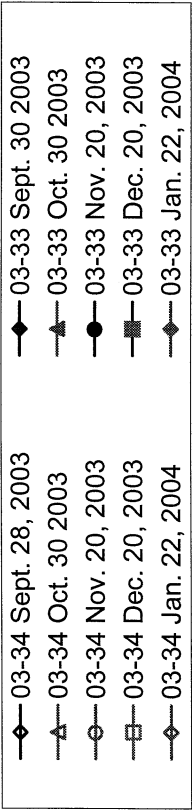


**Geothermal Monitoring
Surface Cell
Thermistor BGC03-34**



Geothermal Monitoring
Surface Cell

Thermistor BGC03-33/34

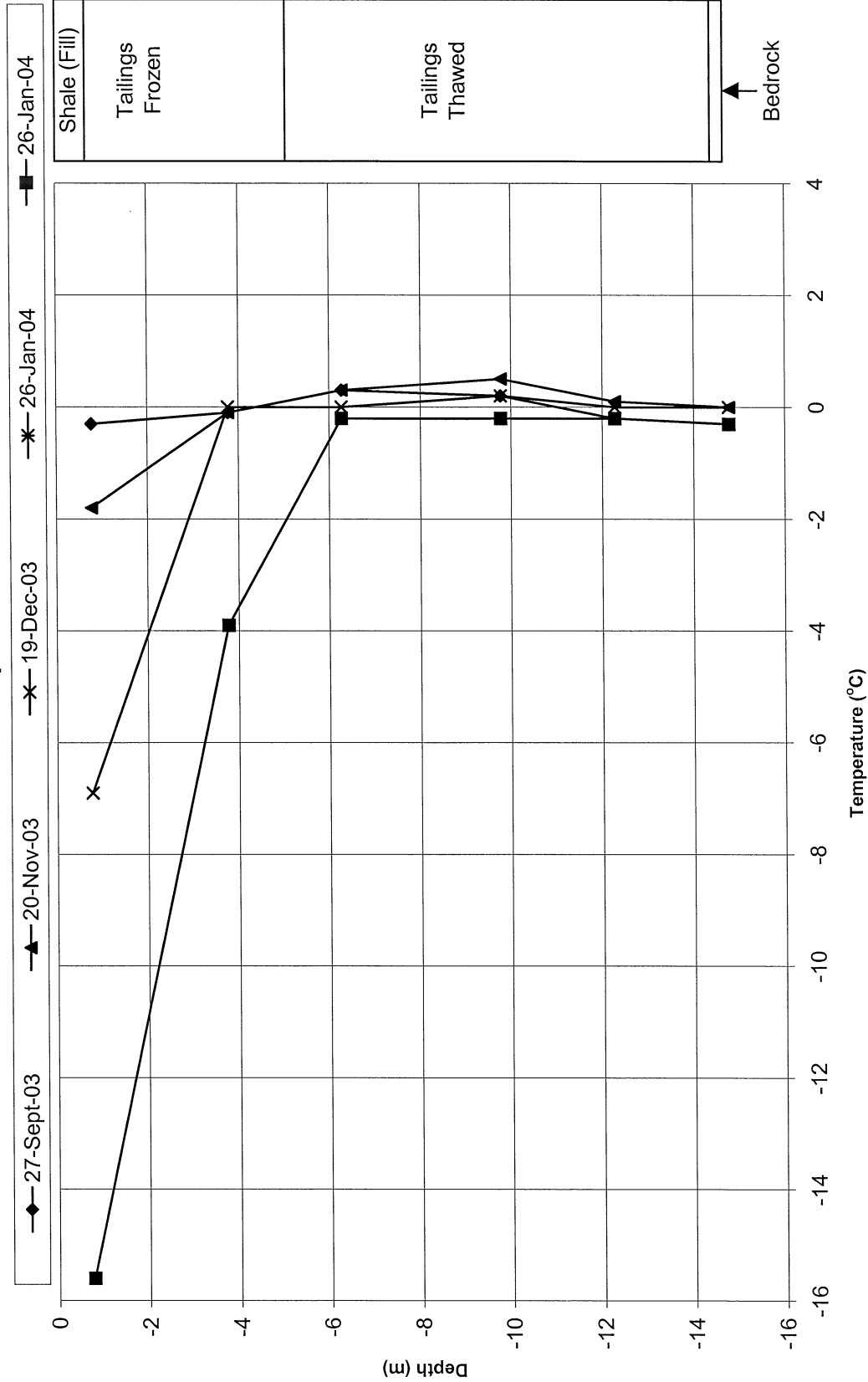


Thermistor Plots 2003.xls
BGC03-33and34

BGC ENGINEERING INC.

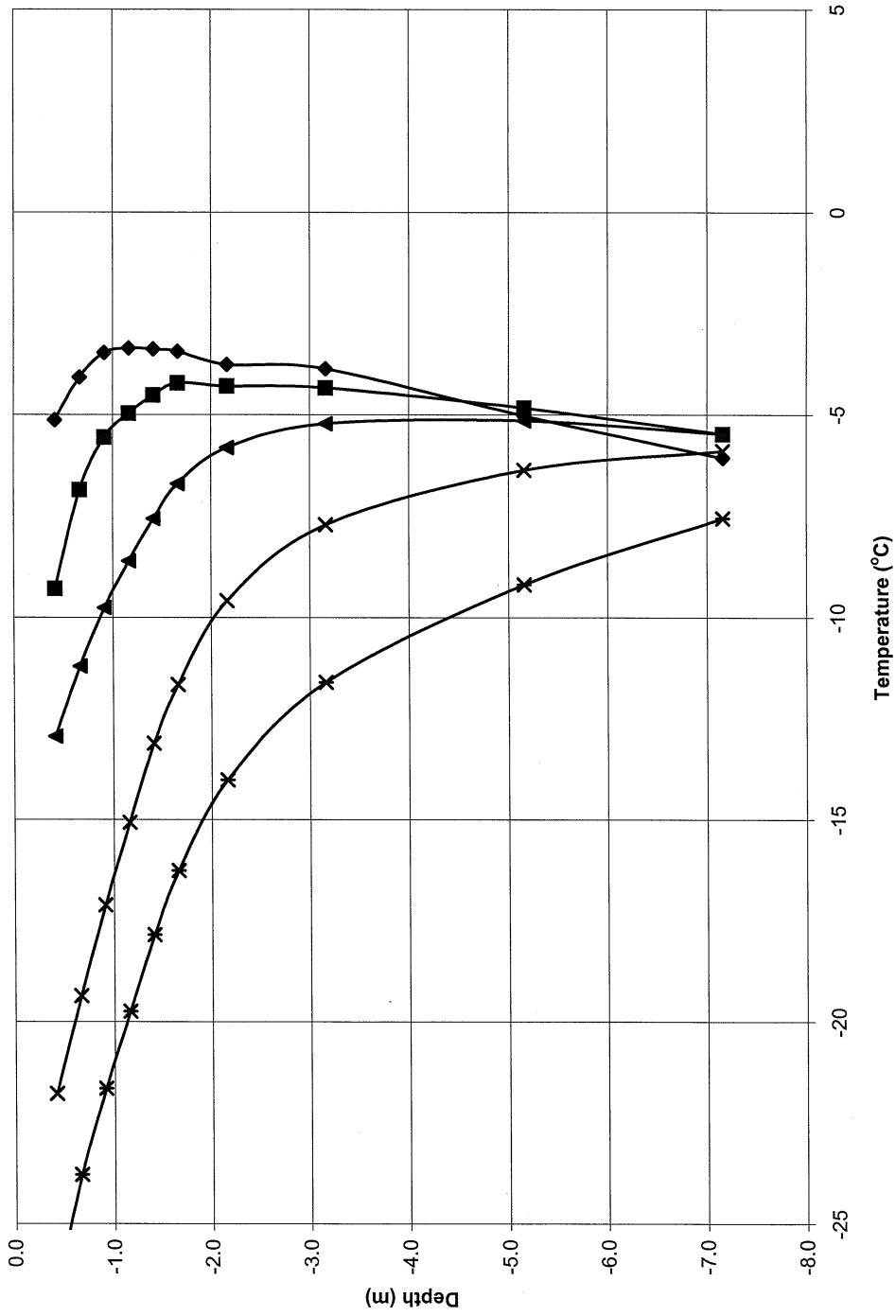
Shale (Fill)
Tailings Frozen
Tailings Thawed
LBS

Geothermal Monitoring
Surface Cell
Thermocouple BGC03-36



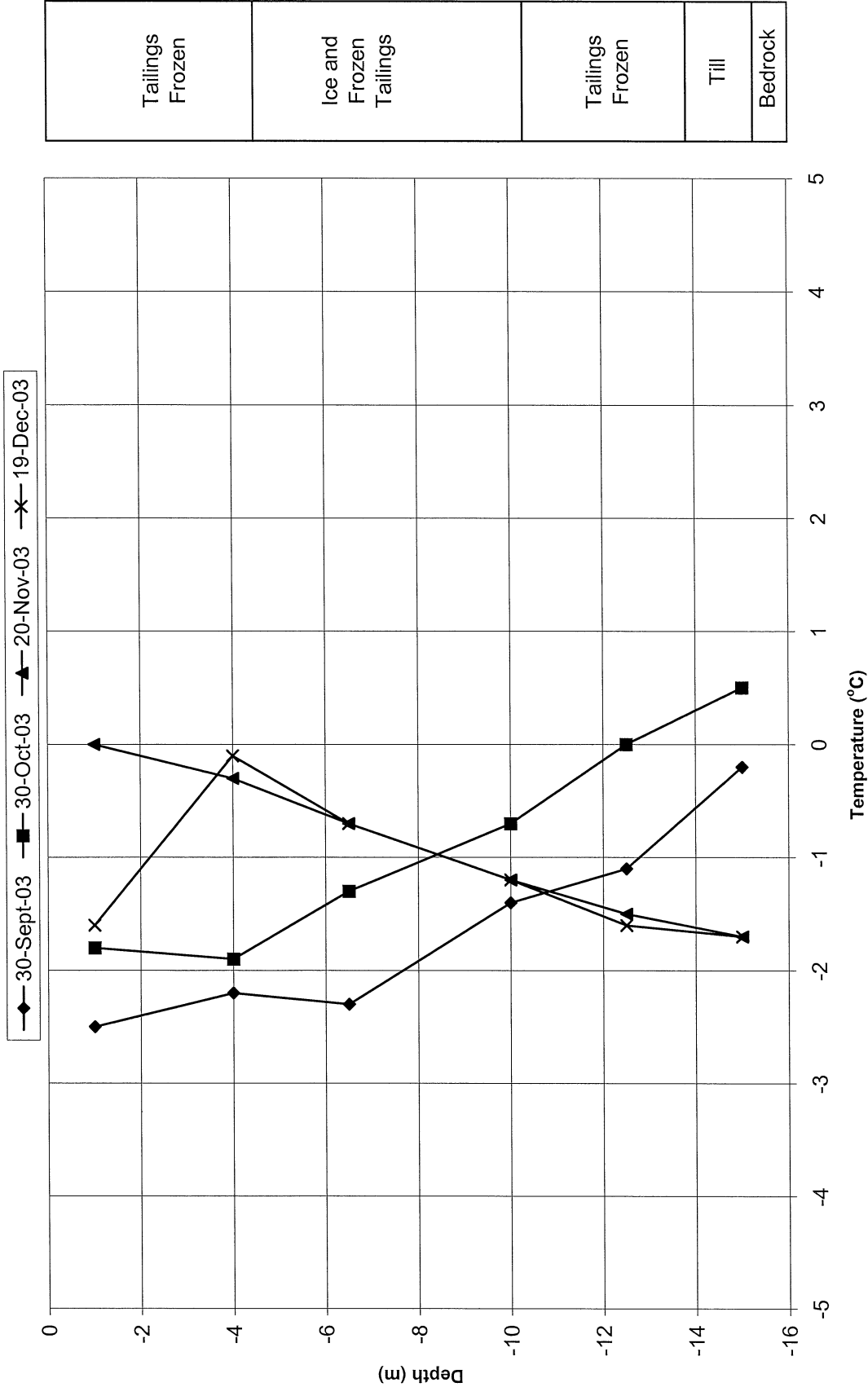
**Geothermal Monitoring
Surface Cell Test Cover
Thermistor BGC03-37**

—◆— 30-Sept-03 —■— 30-Oct-03 —▲— 20-Nov-03 —×— 20-Dec-03 —*— 2-Feb-03



Shale (Fill)	
Tailings Frozen	

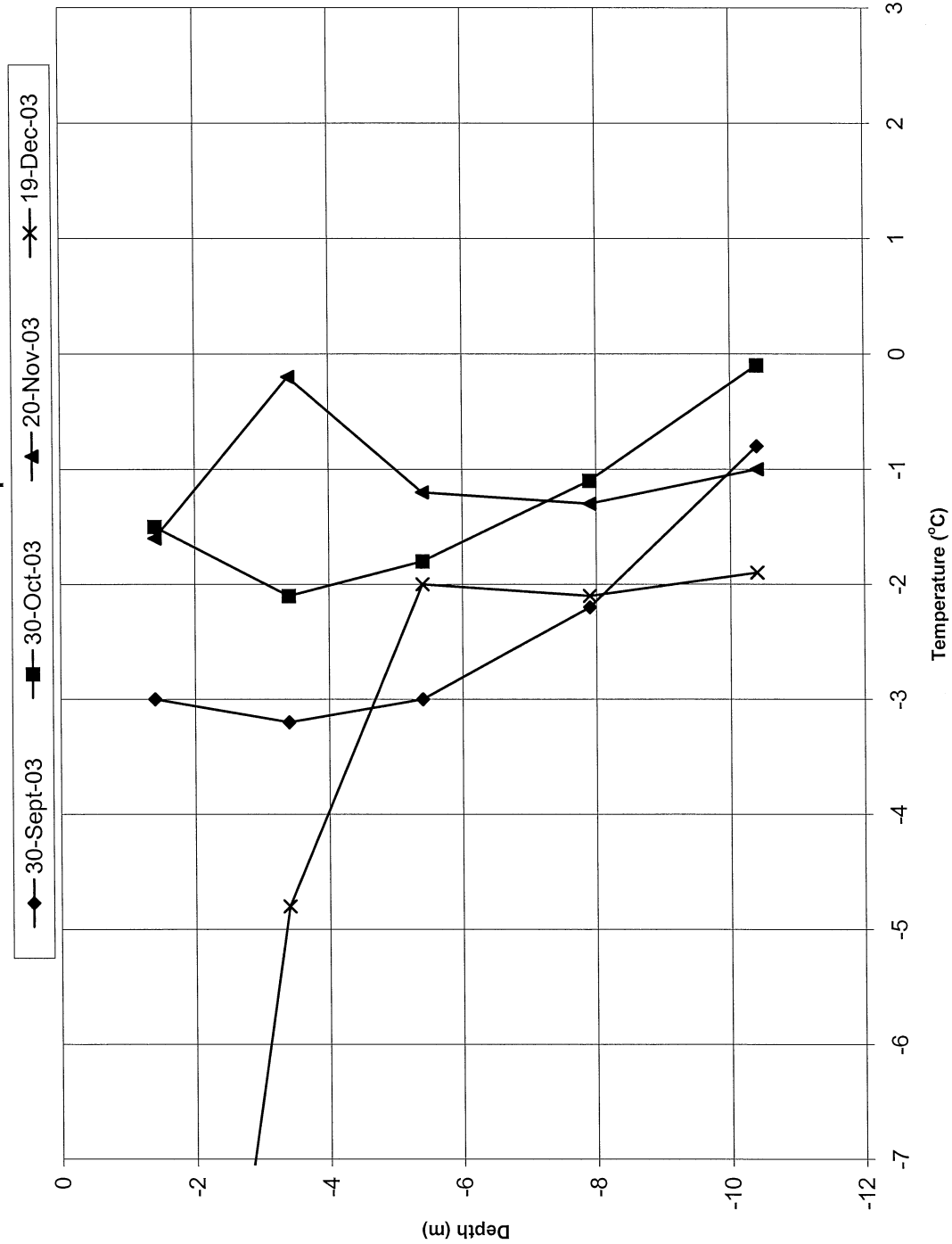
Geothermal Monitoring
Surface Cell
Thermocouple BGC03-38



Geotechnical Monitoring

Surface Cell

Thermocouple BGC03-39



Shale (Fill)
Tailings Frozen
Ice
Tailings Frozen
Lake Bed Sediments