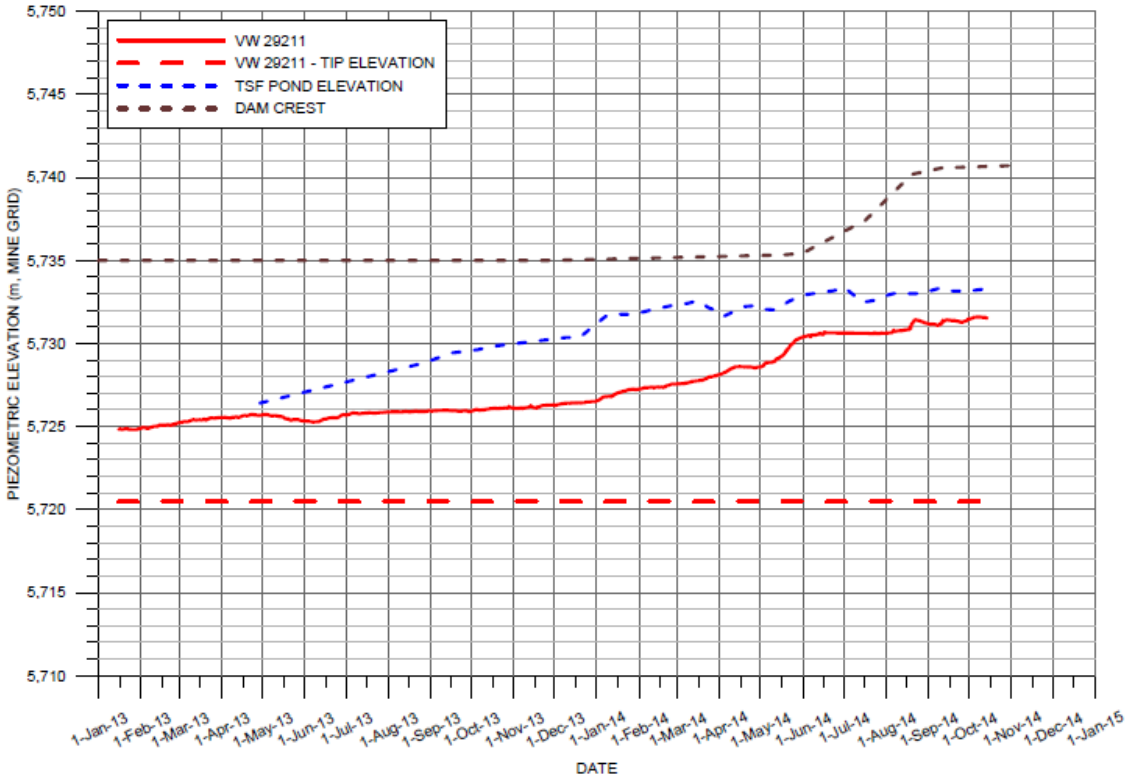
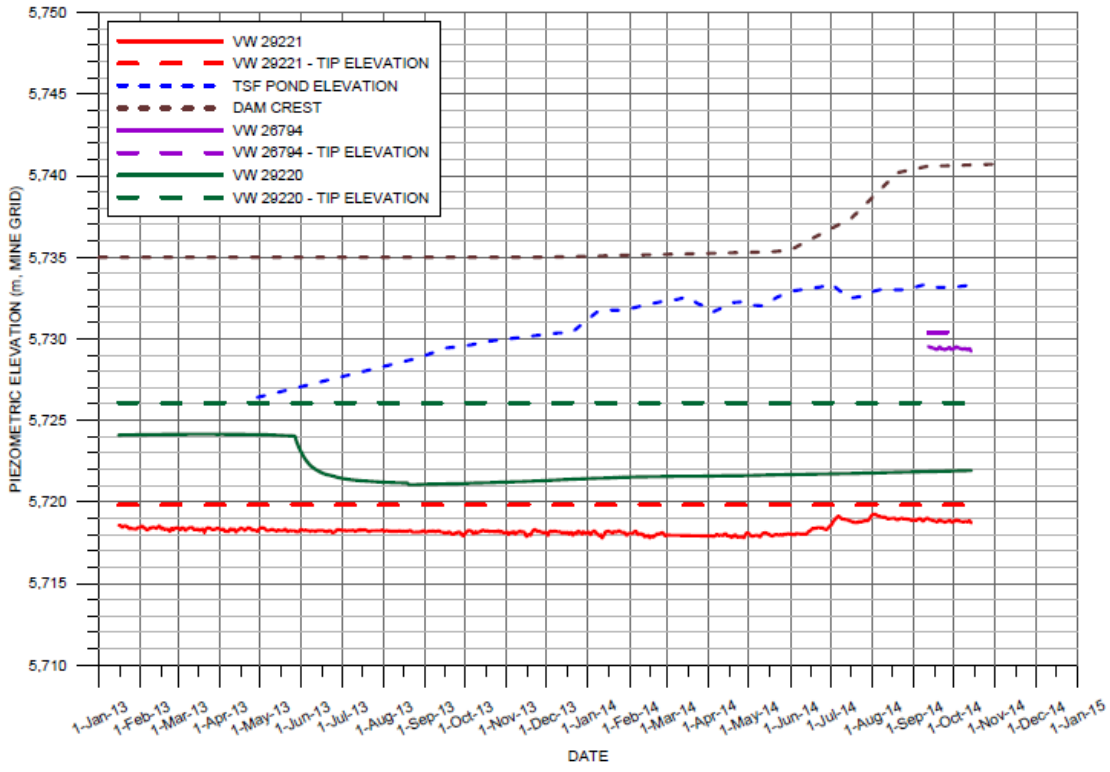
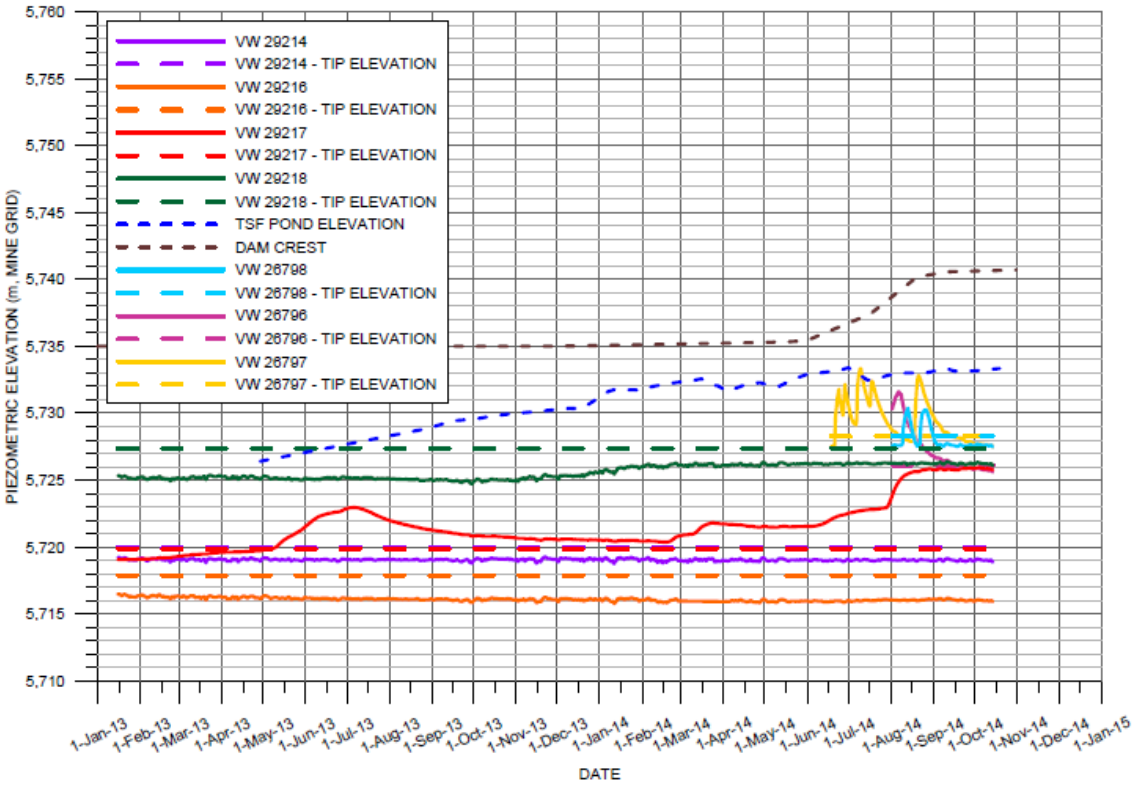
APPENDIX C
MONITORING DATA



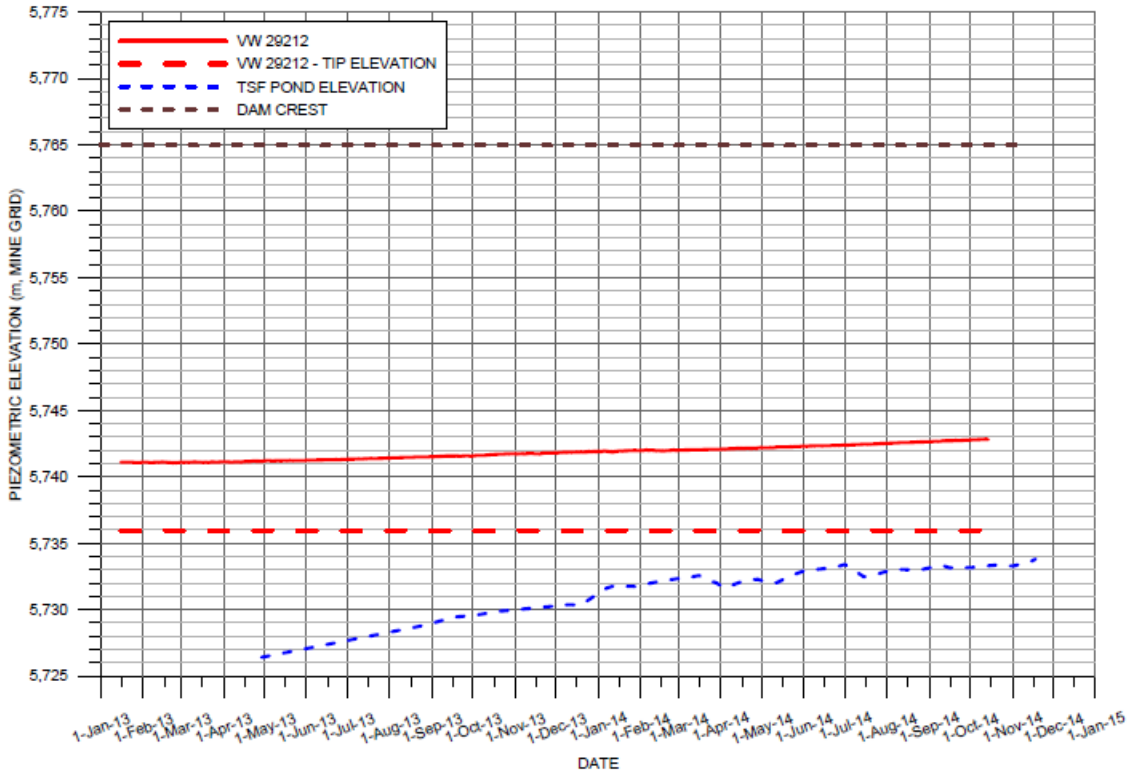
Vibrating Wire Piezometer installed at Dam A



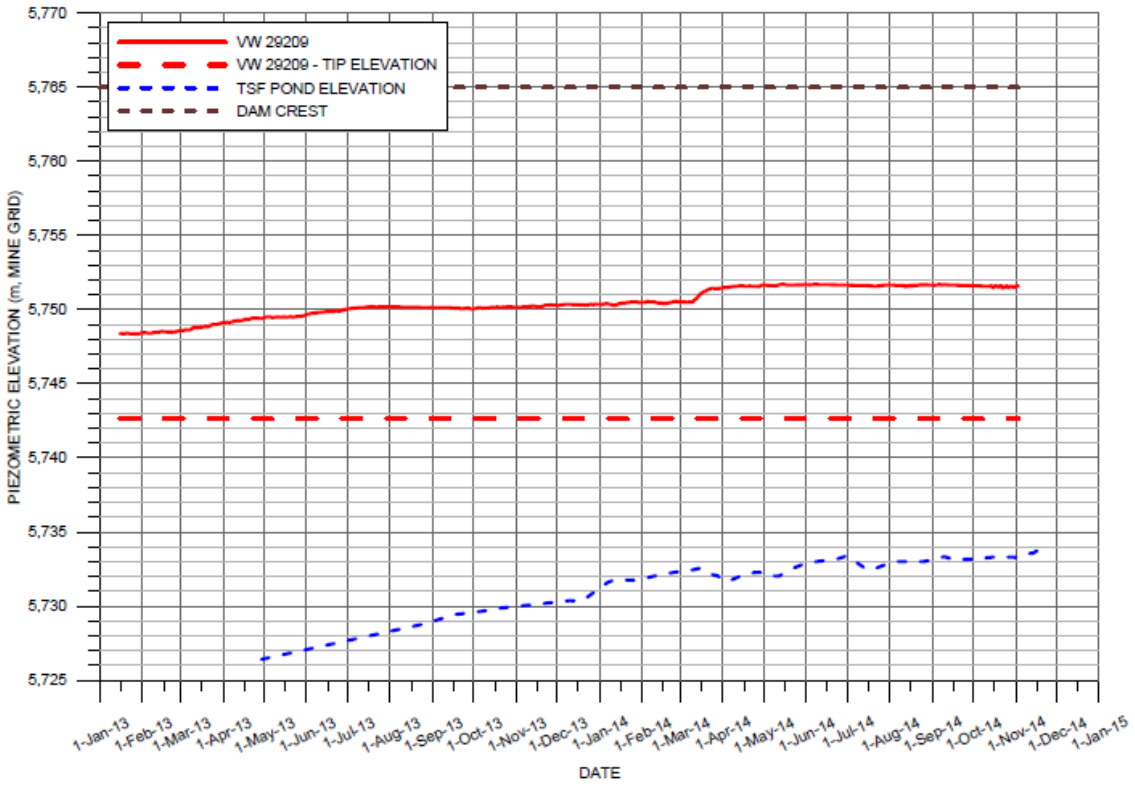
Vibrating Wire Piezometers installed at Dam B



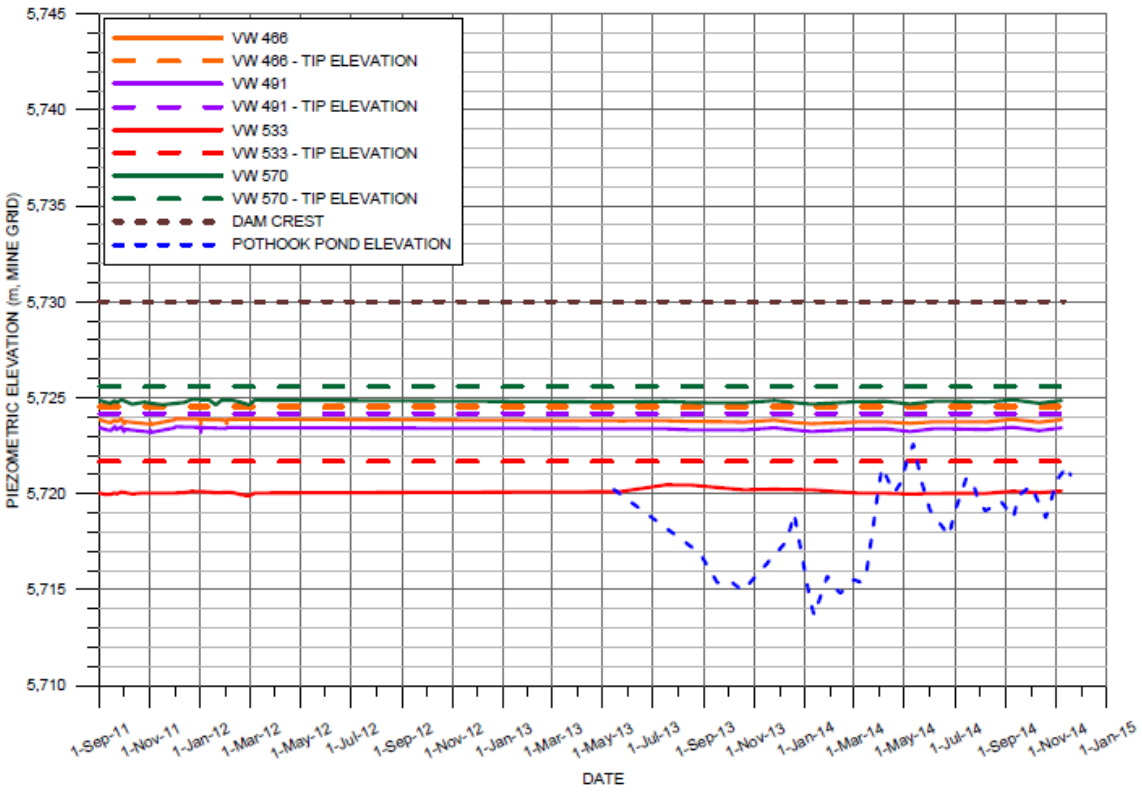
Vibrating Wire Piezometers installed at Dam C



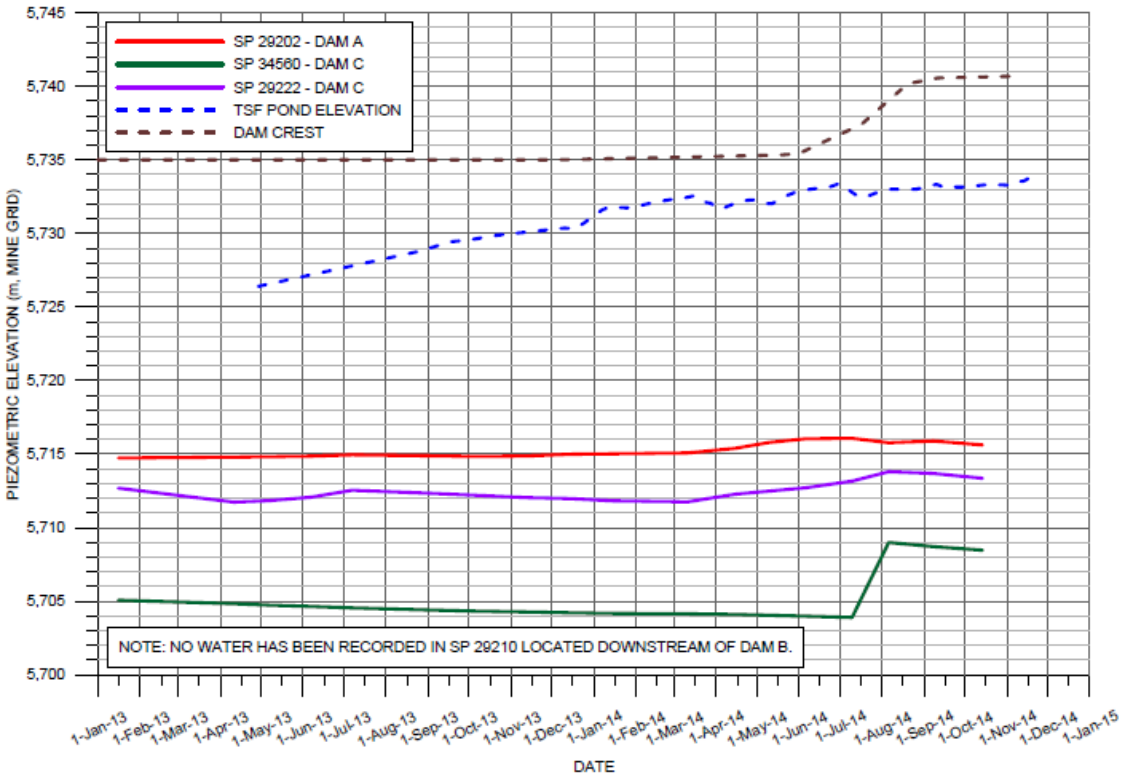
Vibrating Wire Piezometer installed at South Dam



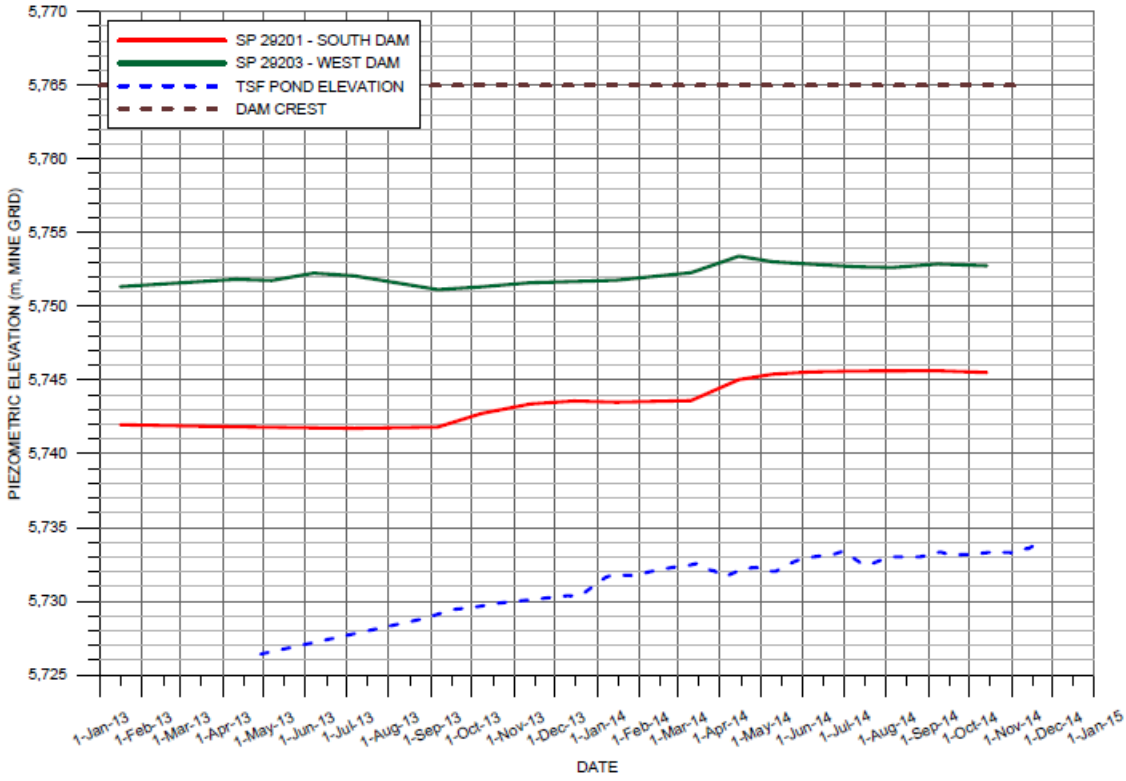
Vibrating Wire Piezometer installed at West Dam



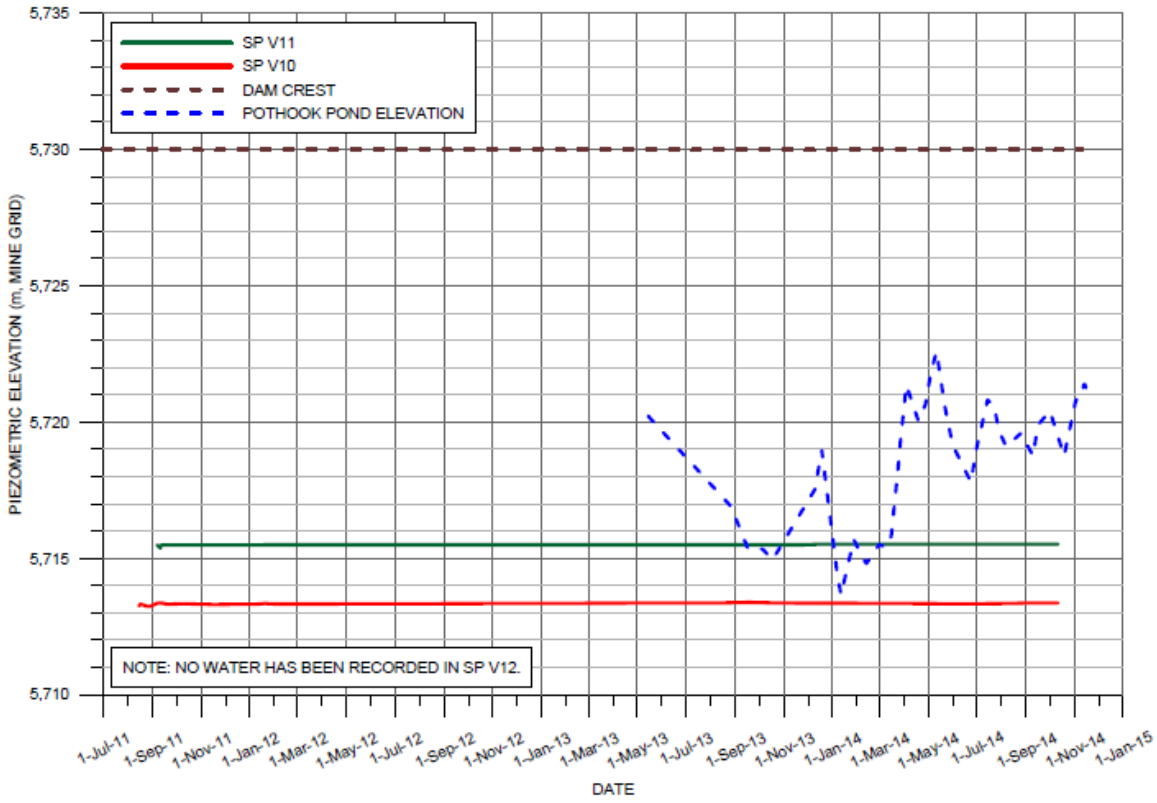
Vibrating Wire Piezometers installed at Pothook Dam



Standpipe Piezometers installed at Dam A and Dam C

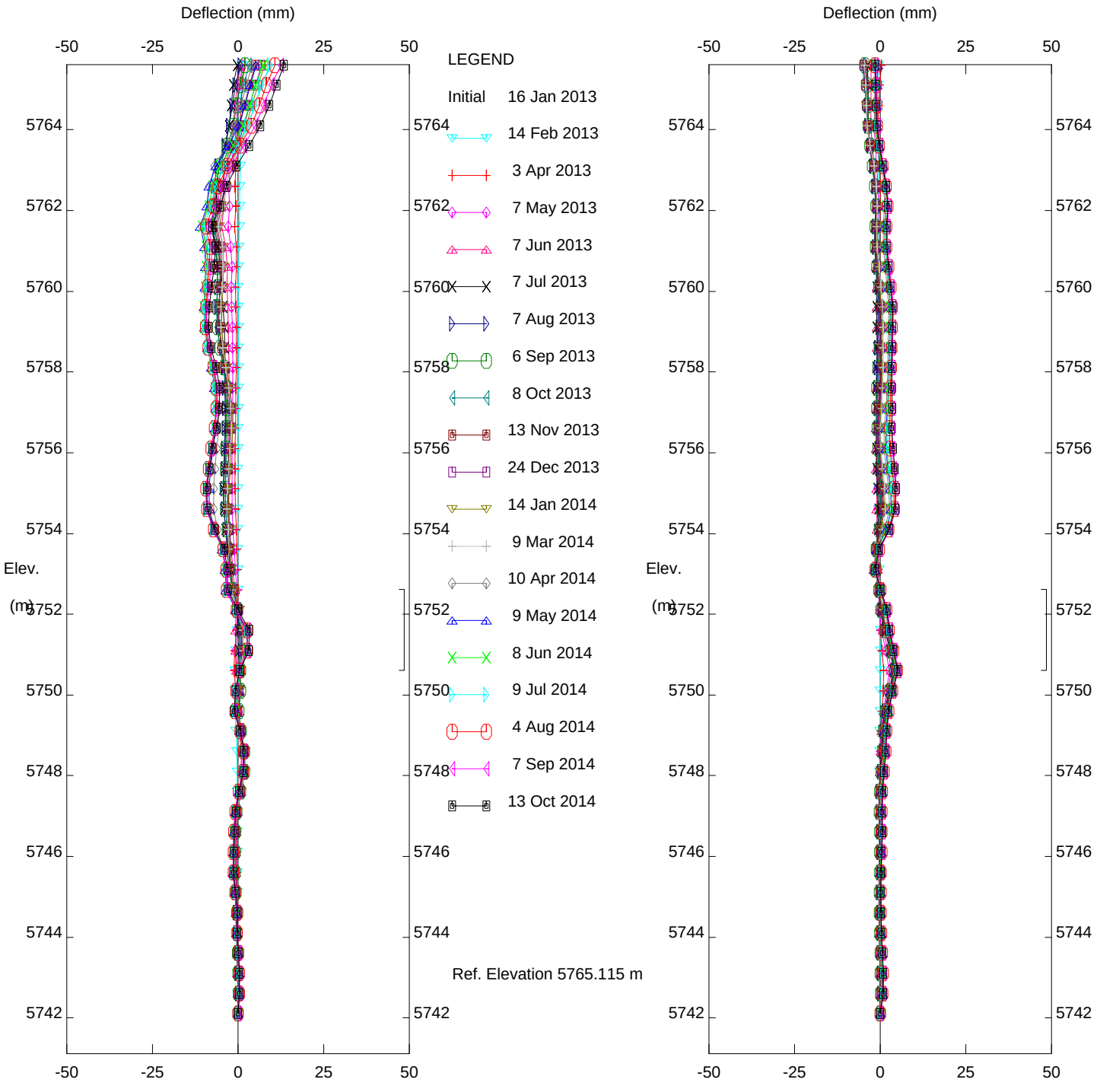


Standpipe Piezometers installed at South Dam and West Dam



Standpipe Piezometers installed at Pothook Dam

BGC Engineering Inc.



Cumulative Deflection

Direction A

Cumulative Deflection

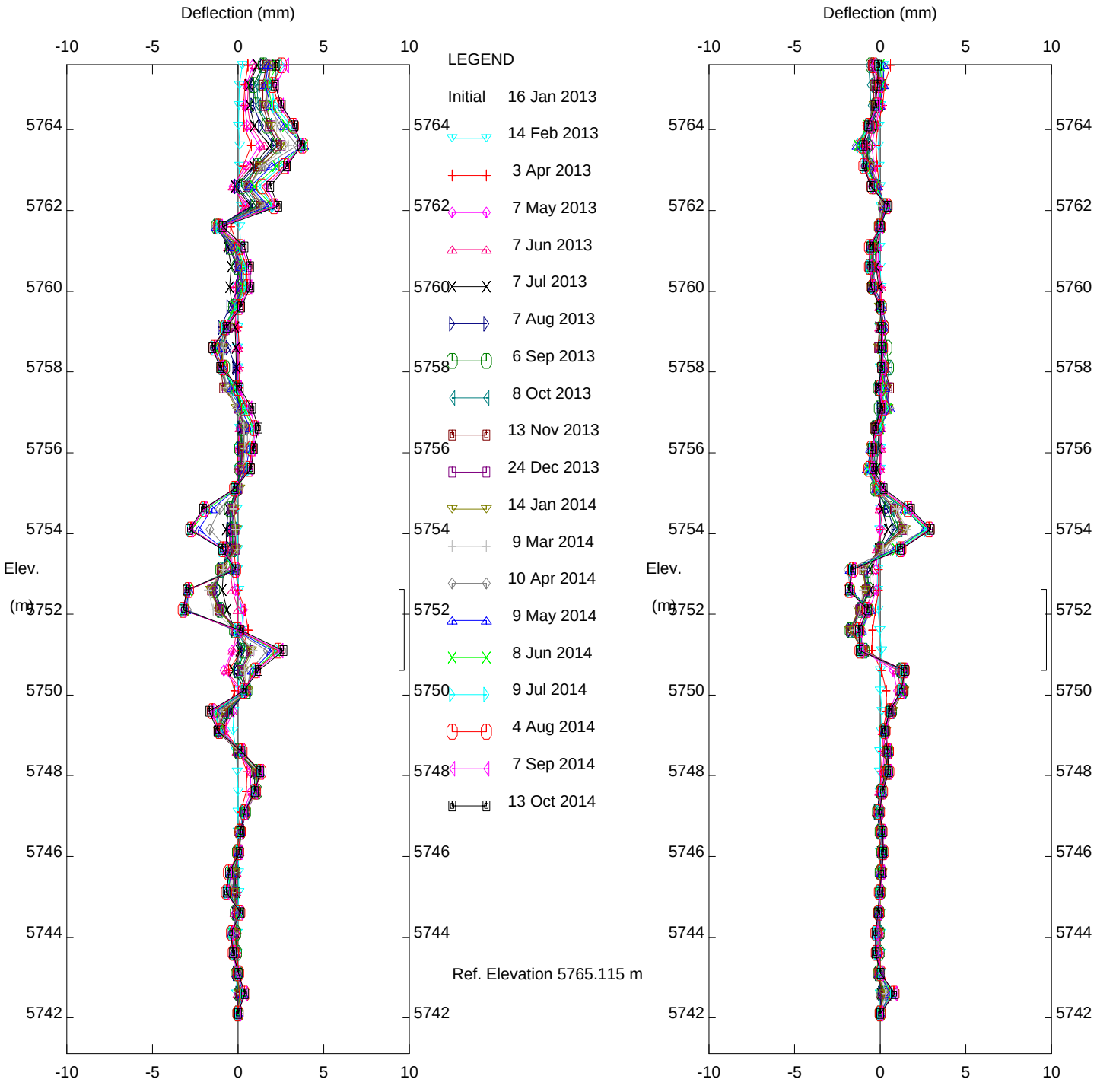
Direction B

NEW AFTON TSF, Inclinometer 29205 W.Dam

New Gold Inc.

Positive A direction faces upstream, Positive B faces left abutment

BGC Engineering Inc.



Incremental Deflection

Direction A

Incremental Deflection

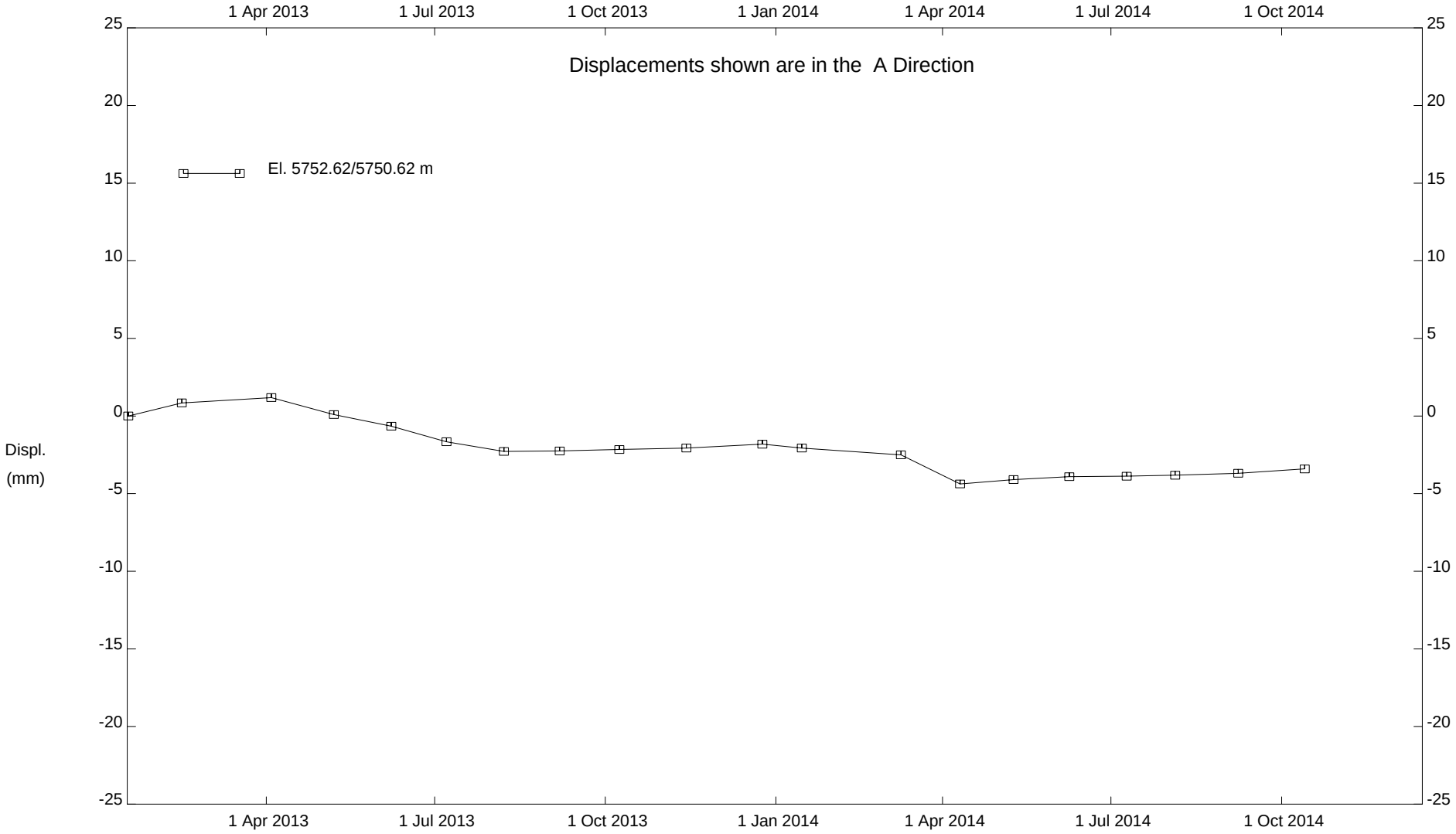
Direction B

NEW AFTON TSF, Inclinometer 29205 W.Dam

New Gold Inc.

Positive A direction faces upstream, Positive B faces left abutment

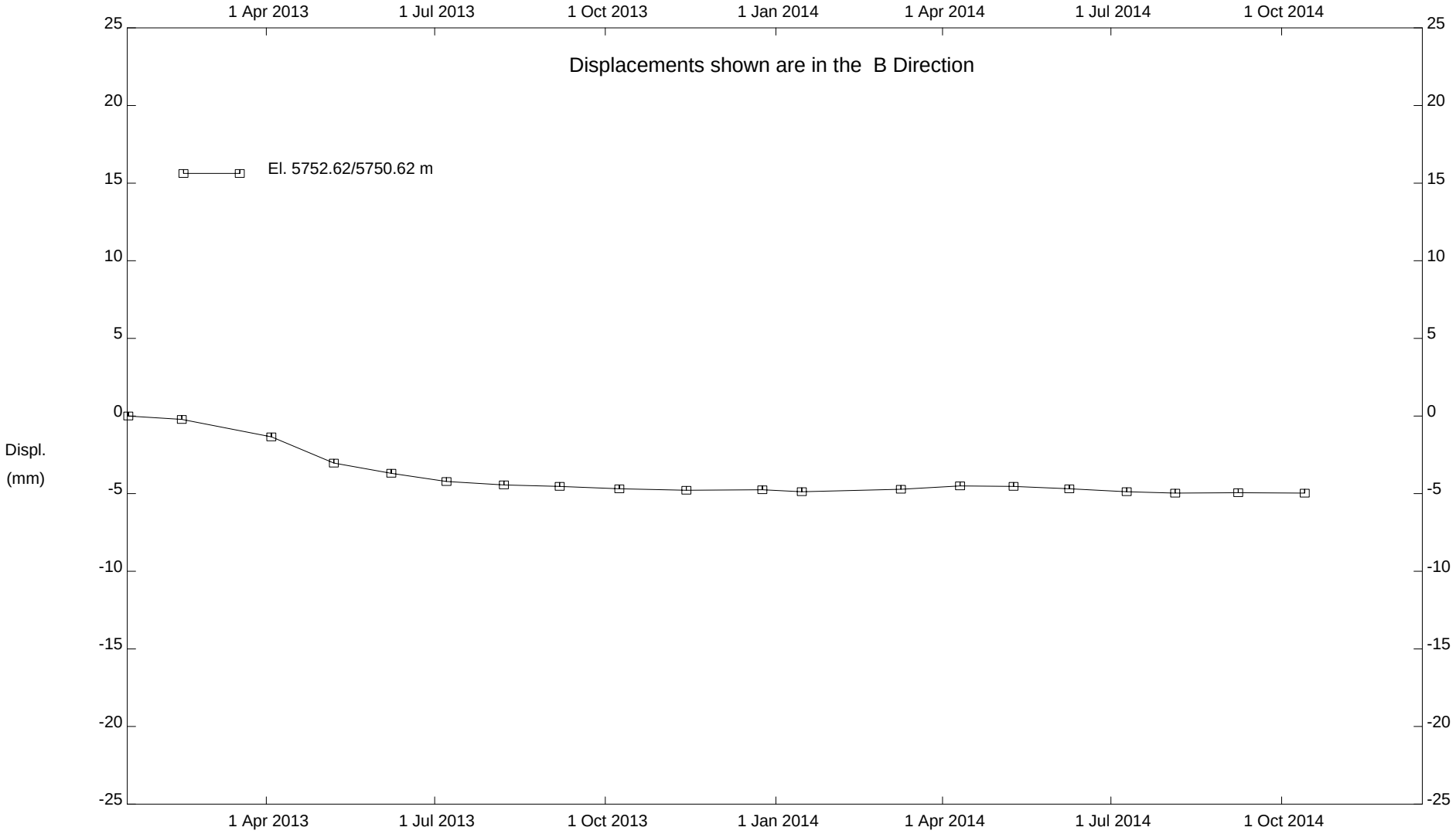
BGC Engineering Inc.



NEW AFTON TSF, Inclinometer 29205 W.Dam

New Gold Inc.

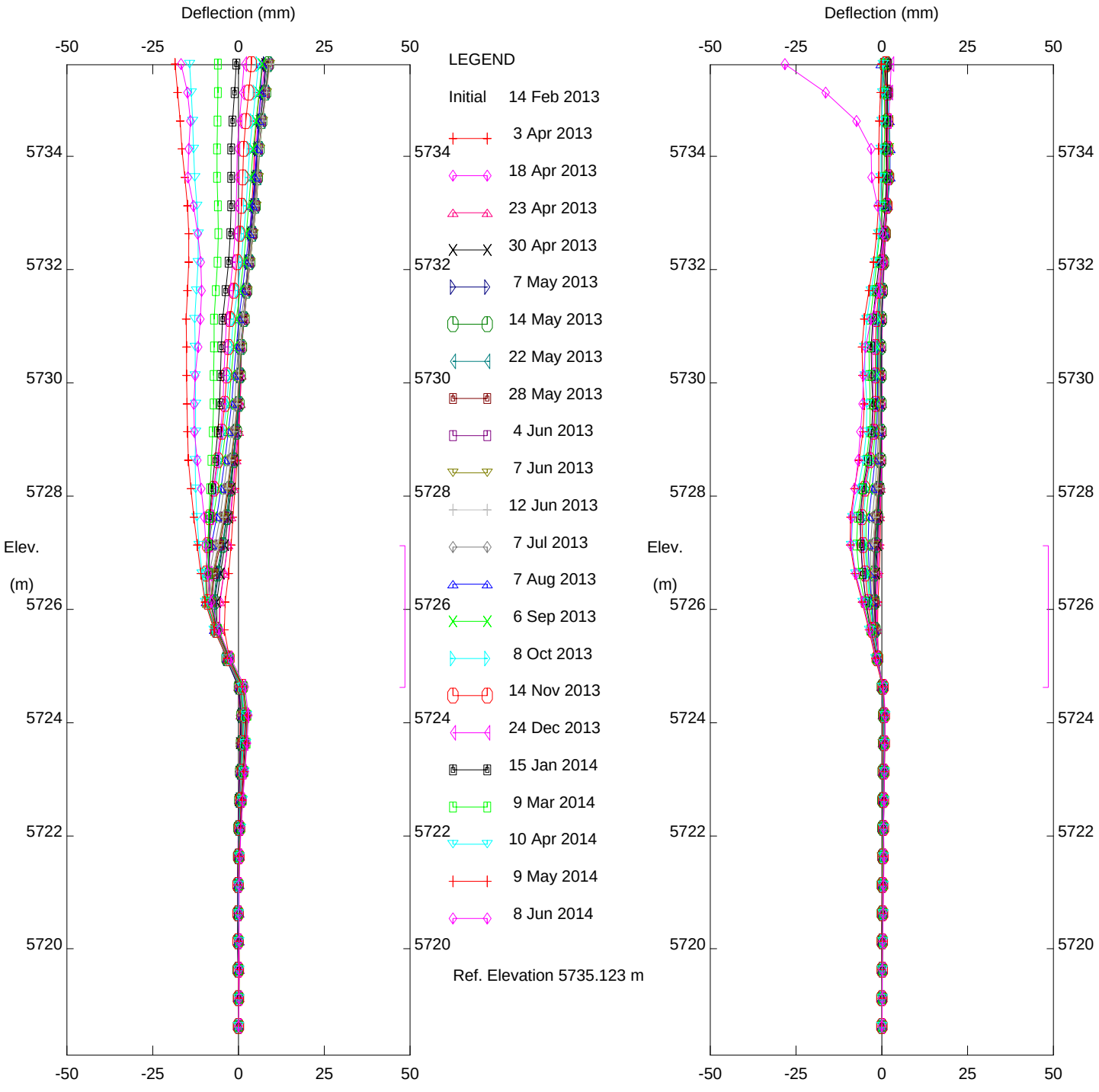
BGC Engineering Inc.



NEW AFTON TSF, Inclinometer 29205 W.Dam

New Gold Inc.

BGC Engineering Inc.



Cumulative Deflection

Direction A

Cumulative Deflection

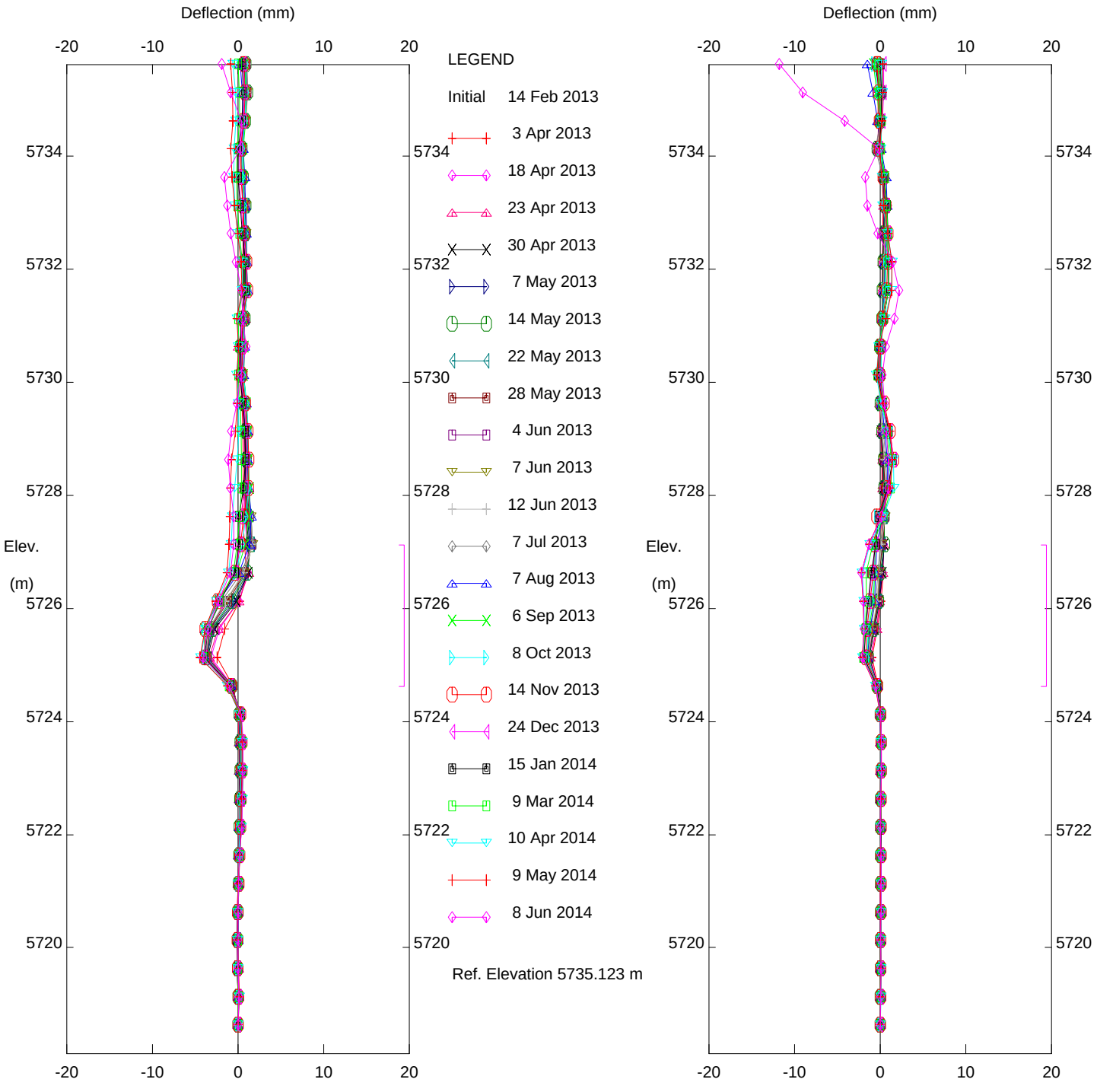
Direction B

NEW AFTON - TSF, Inclinometer 29206 Dam A

New Gold Inc.

Positive A direction faces upstream, Positive B faces left abutment

BGC Engineering Inc.

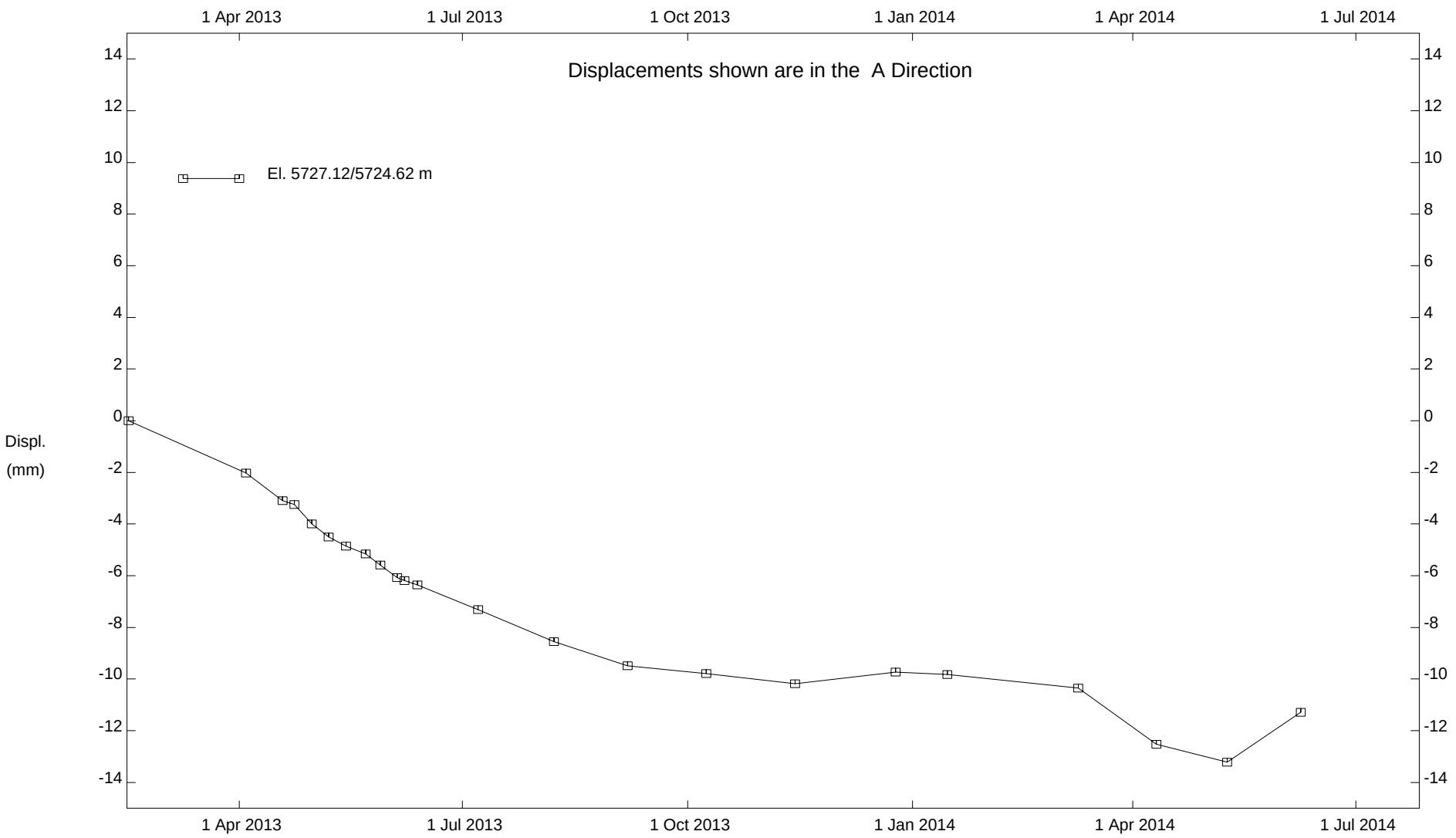


NEW AFTON - TSF, Inclinometer 29206 Dam A

New Gold Inc.

Positive A direction faces upstream, Positive B faces left abutment

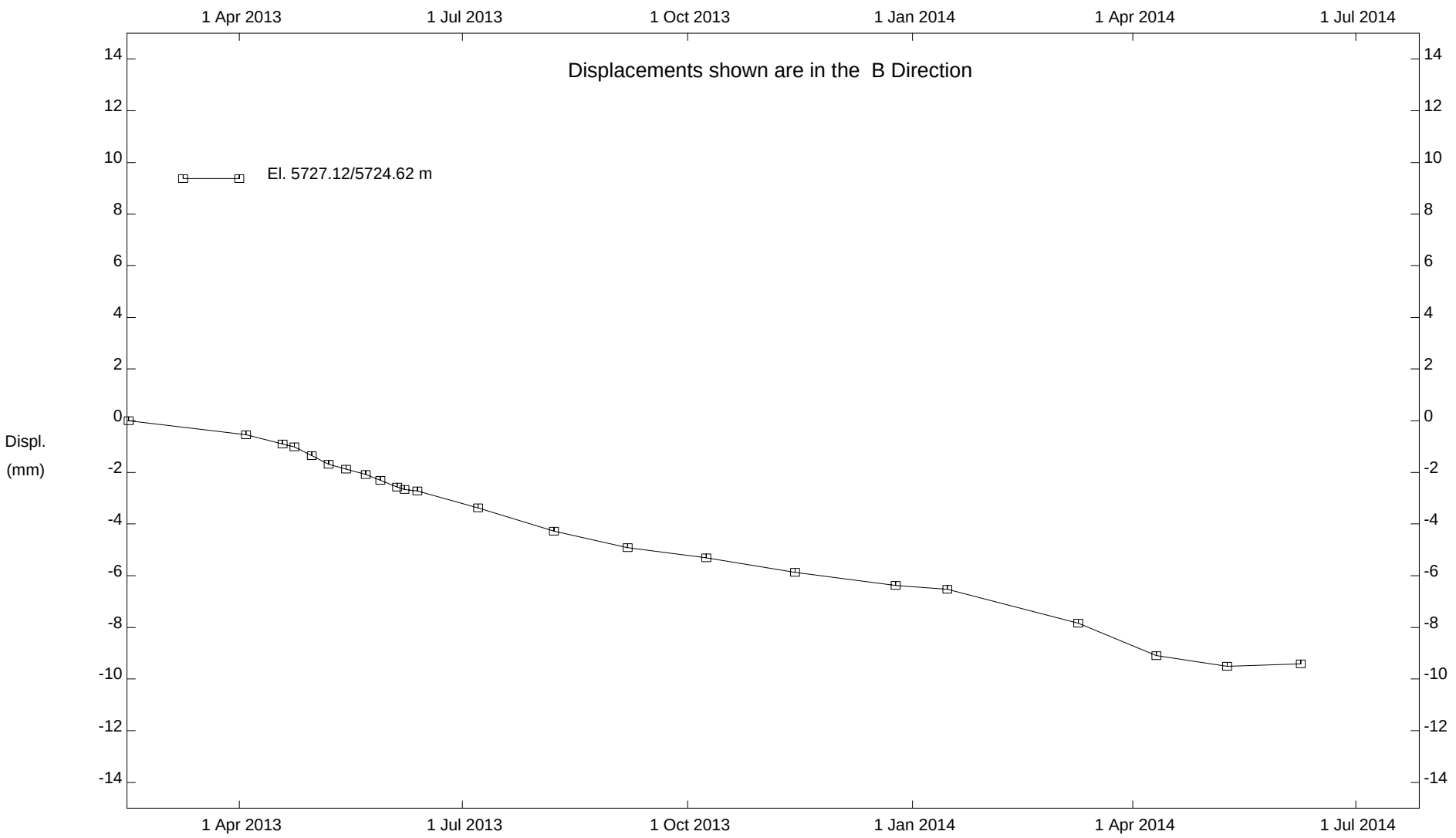
BGC Engineering Inc.



NEW AFTON - TSF, Inclinometer 29206 Dam A

New Gold Inc.

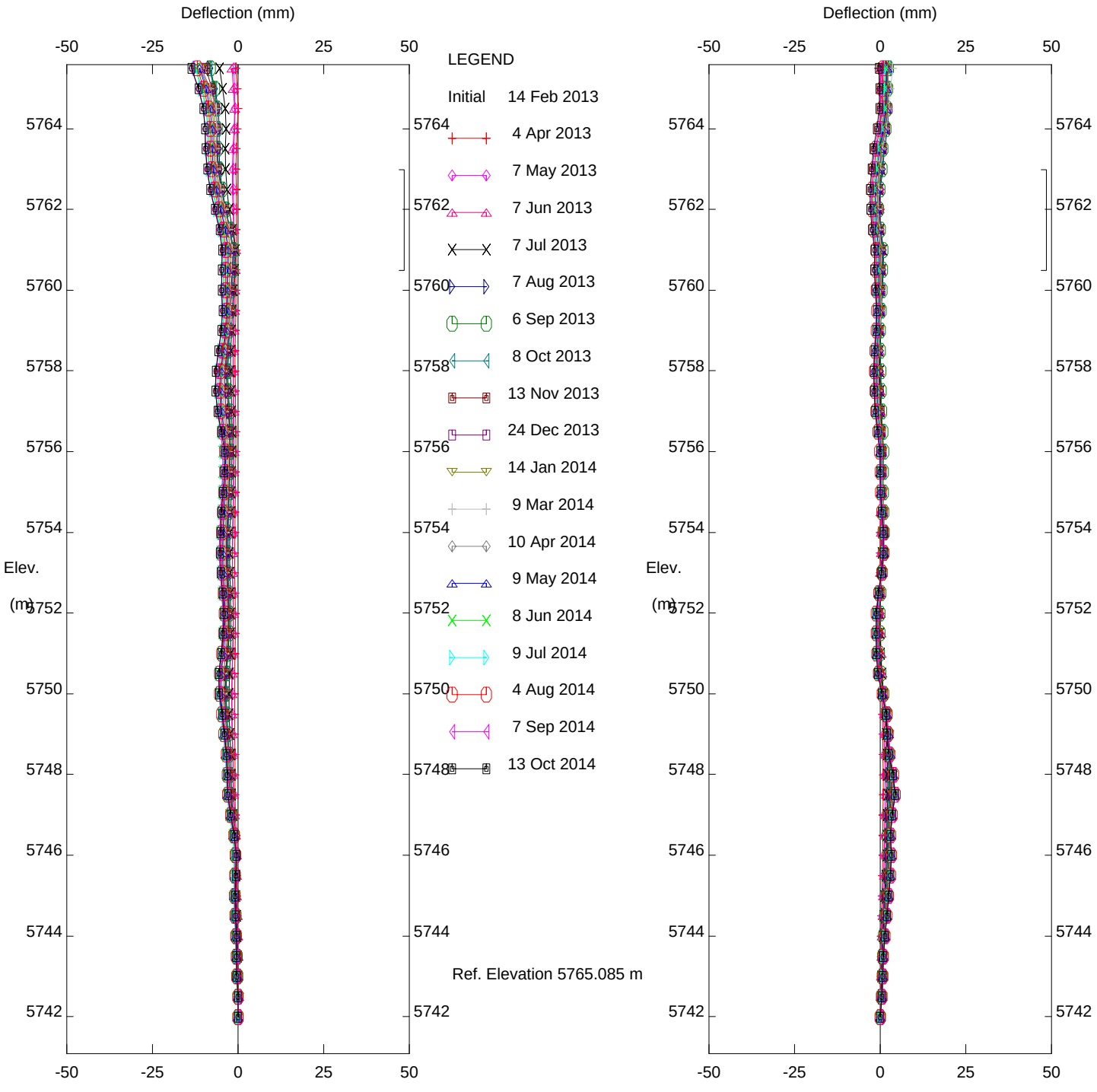
BGC Engineering Inc.



NEW AFTON - TSF, Inclinometer 29206 Dam A

New Gold Inc.

BGC Engineering Inc.



Cumulative Deflection

Direction A

Cumulative Deflection

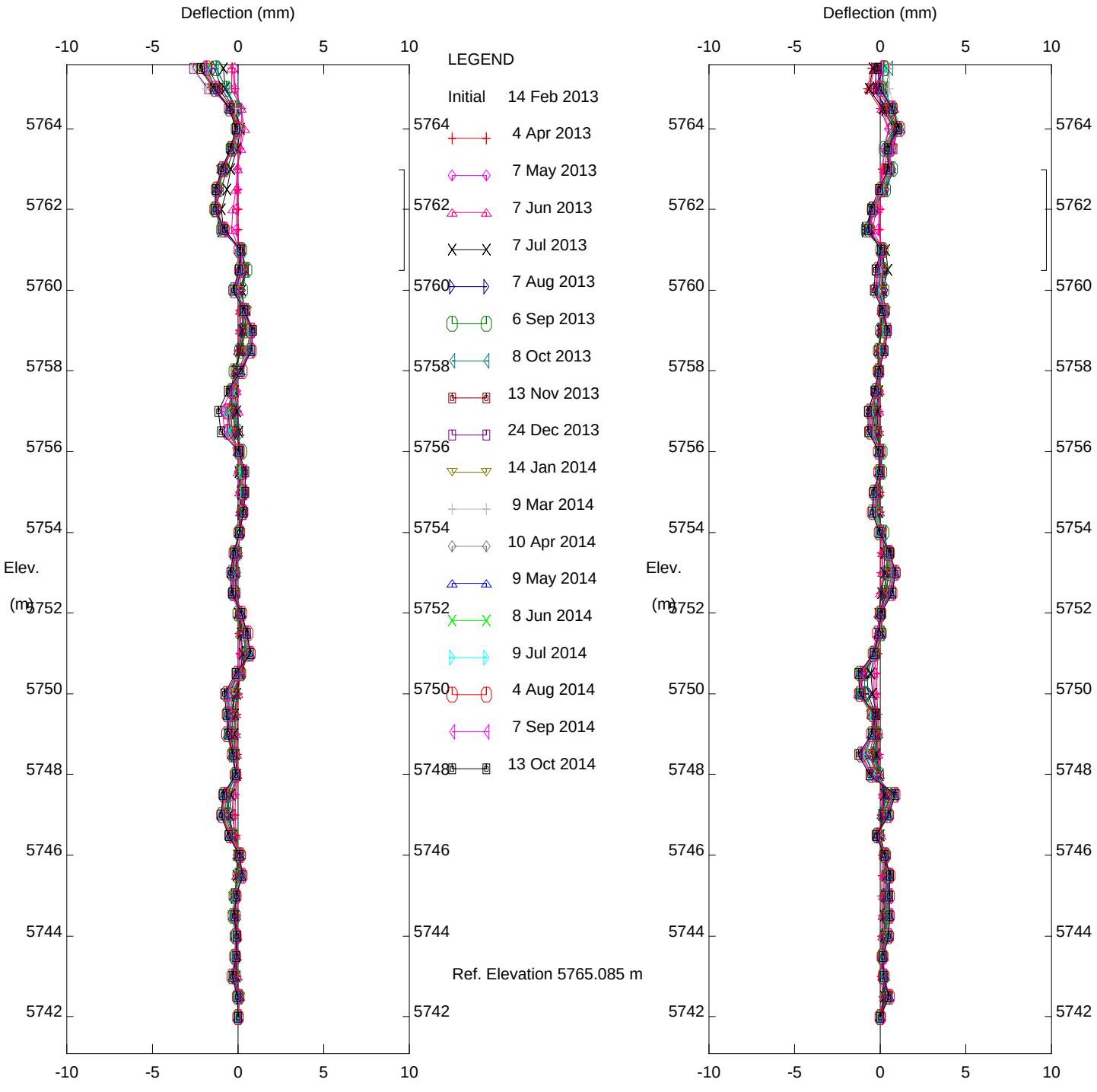
Direction B

NEW AFTON - TSF, Inclinometer 29207 S. Dam

New Gold Inc.

Positive A direction faces upstream, Positive B faces left abutment

BGC Engineering Inc.

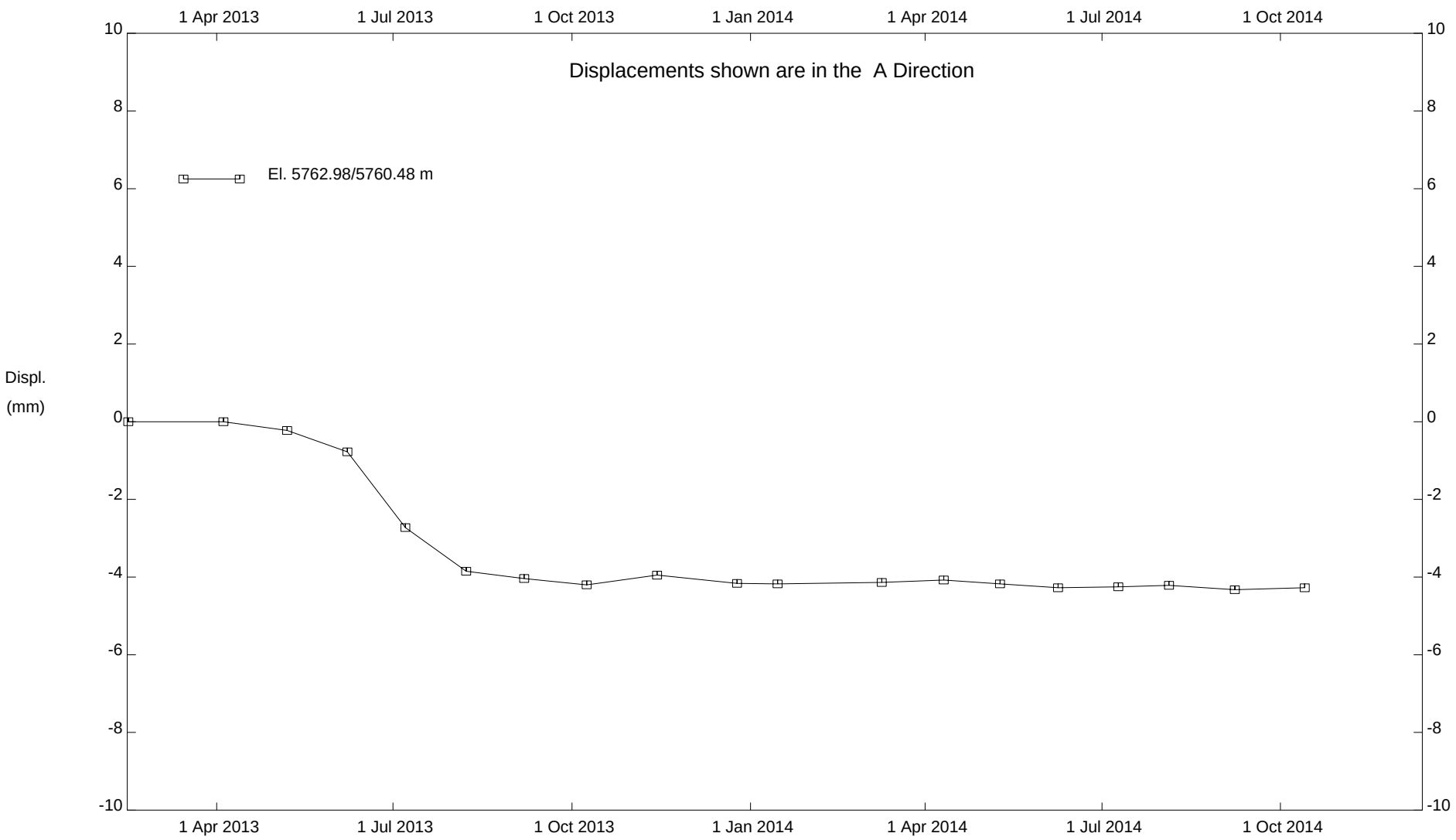


NEW AFTON - TSF, Inclinometer 29207 S. Dam

New Gold Inc.

Positive A direction faces upstream, Positive B faces left abutment

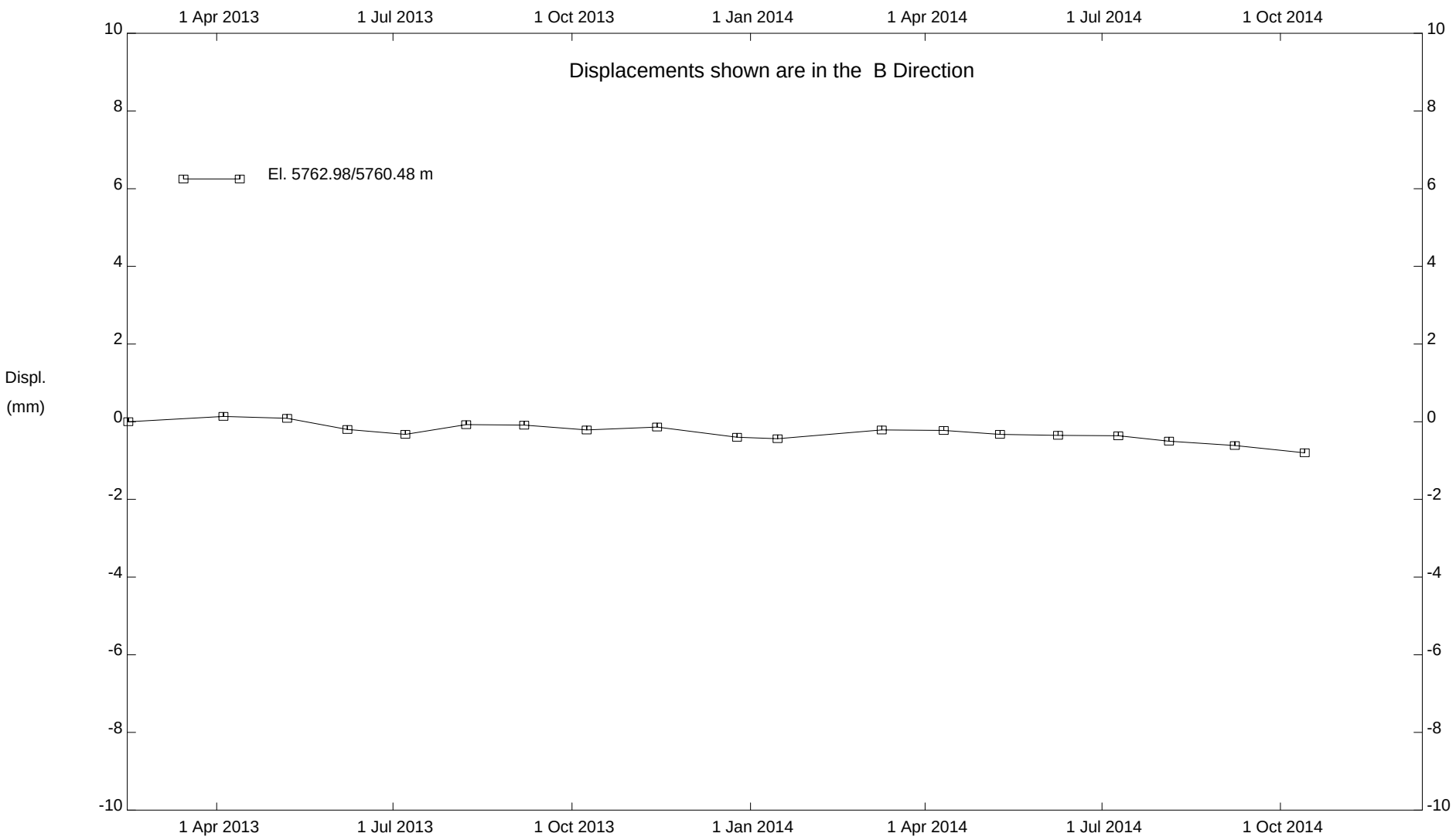
BGC Engineering Inc.



NEW AFTON - TSF, Inclinometer 29207 S. Dam

New Gold Inc.

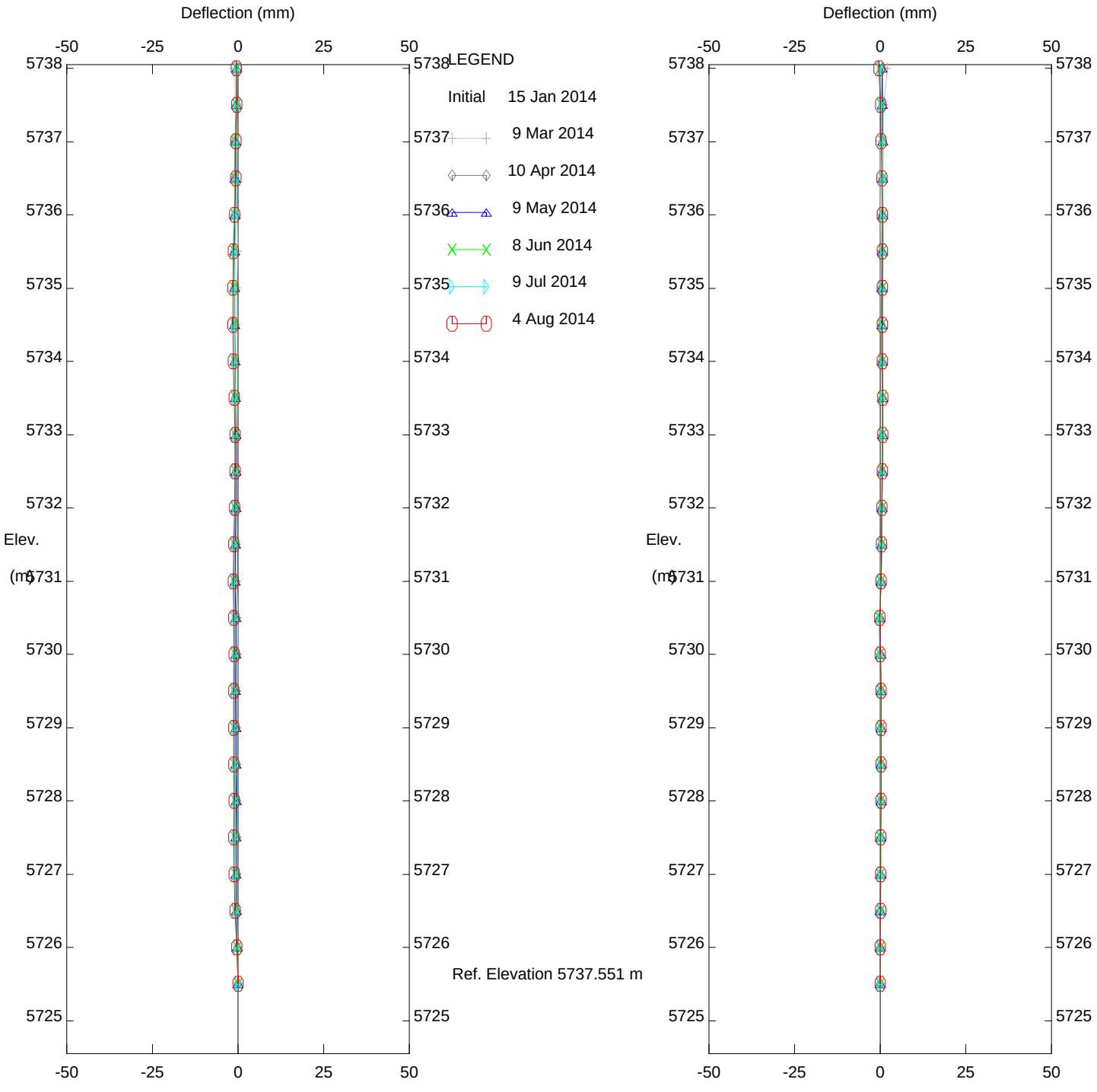
BGC Engineering Inc.



NEW AFTON - TSF, Inclinometer 29207 S. Dam

New Gold Inc.

BGC Engineering Inc.



Cumulative Deflection

Direction A

Cumulative Deflection

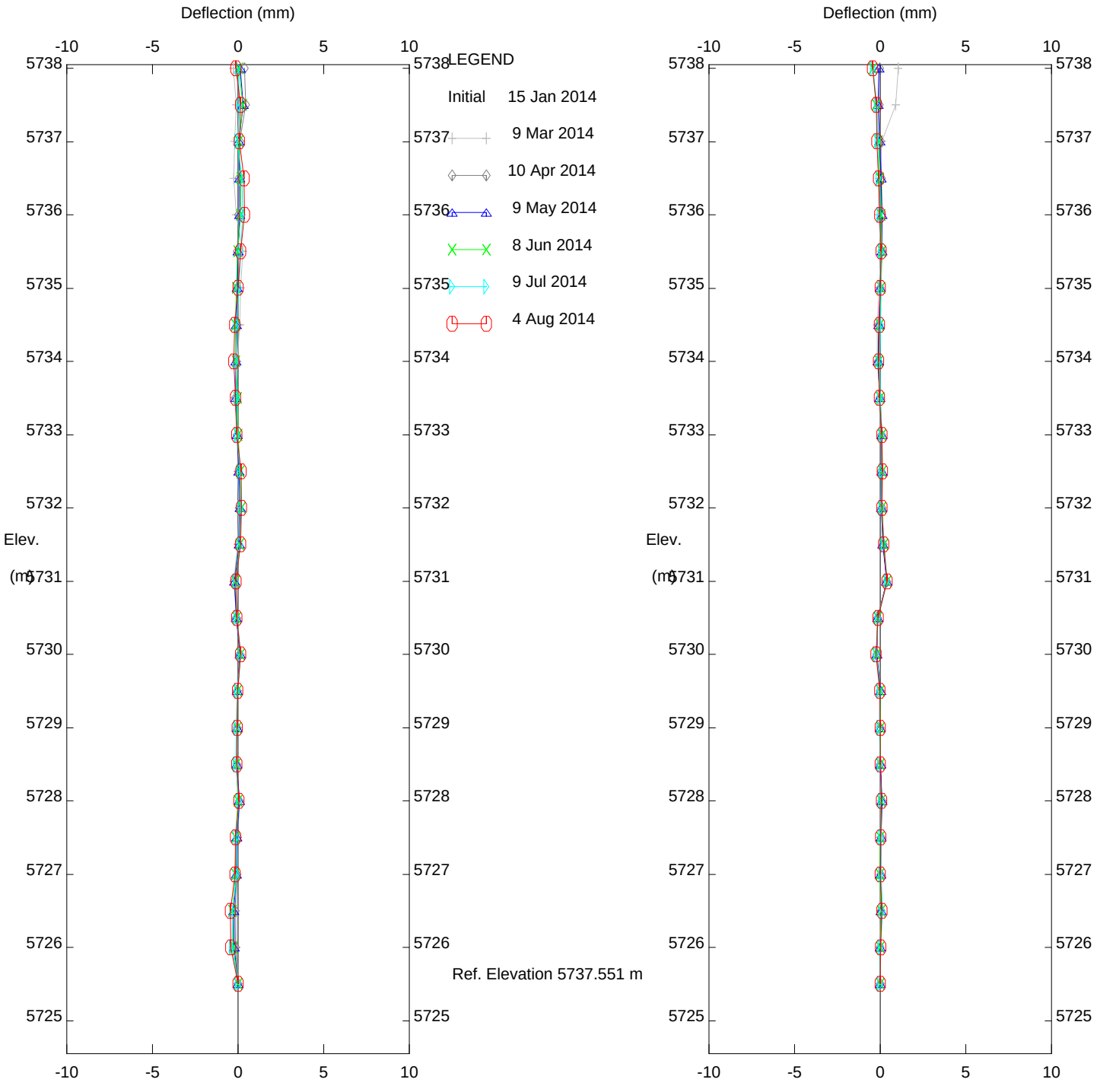
Direction B

NEW AFTON - TSF, Inclinometer 29208 DamB&C

New Gold Inc.

Positive A direction faces upstream, Positive B faces left abutment

BGC Engineering Inc.



Incremental Deflection

Direction A

Incremental Deflection

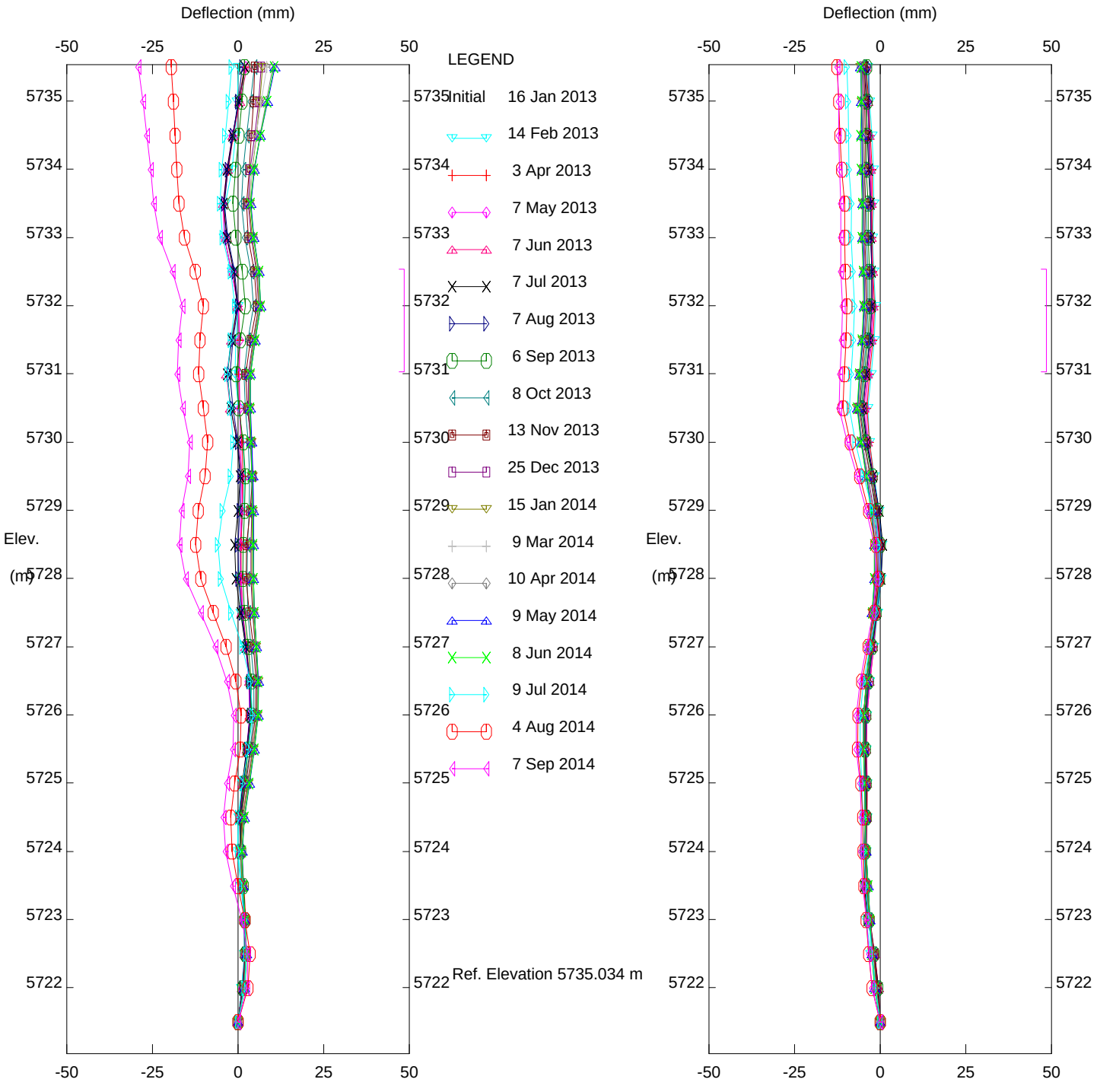
Direction B

NEW AFTON - TSF, Inclinometer 29208 DamB&C

New Gold Inc.

Positive A direction faces upstream, Positive B faces left abutment

BGC Engineering Inc.



Cumulative Deflection

Direction A

Cumulative Deflection

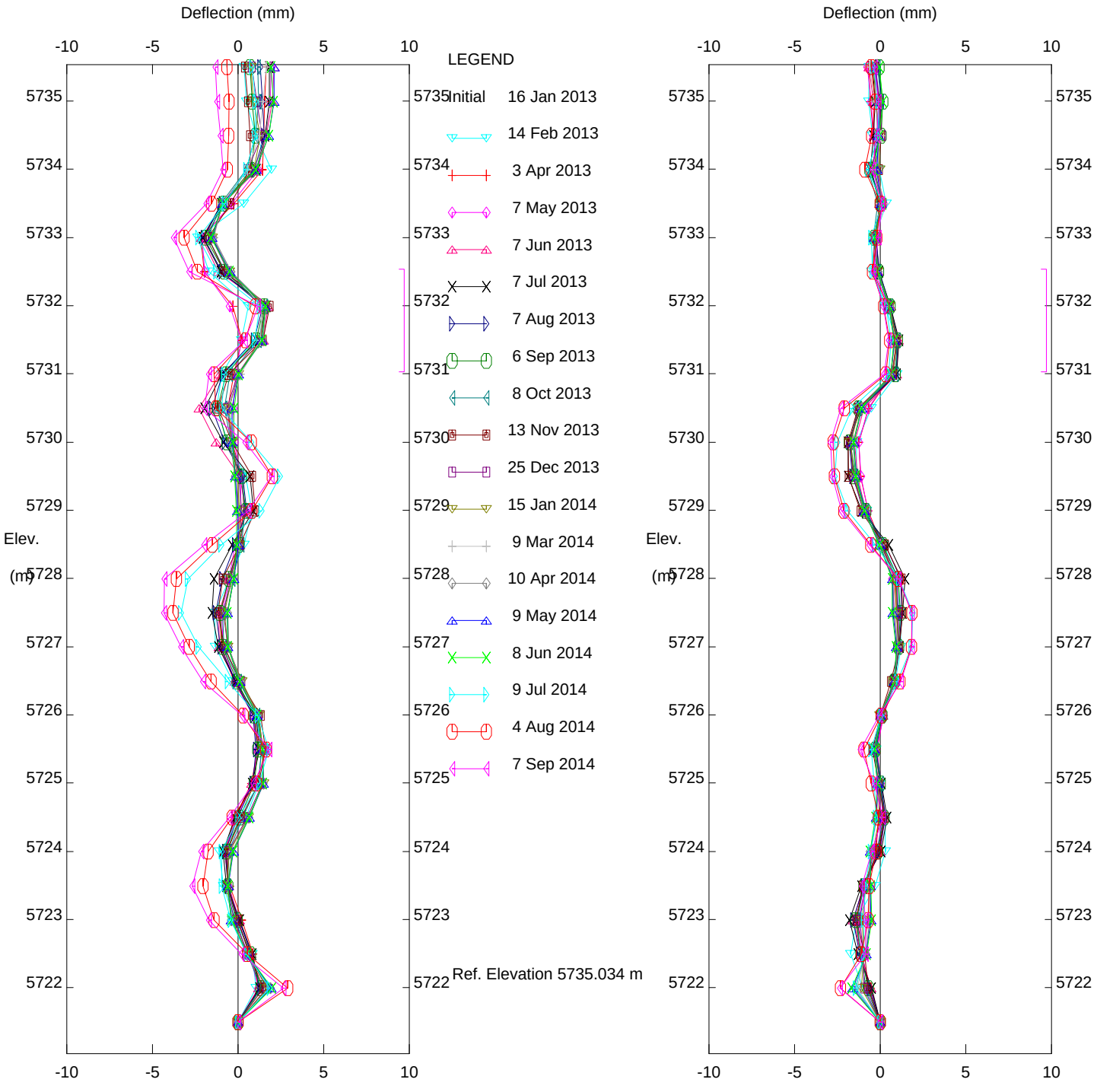
Direction B

NEW AFTON - TSF, Inclinometer 29213 Dam C

New Gold Inc.

Positive A direction faces upstream, Positive B faces left abutment

BGC Engineering Inc.

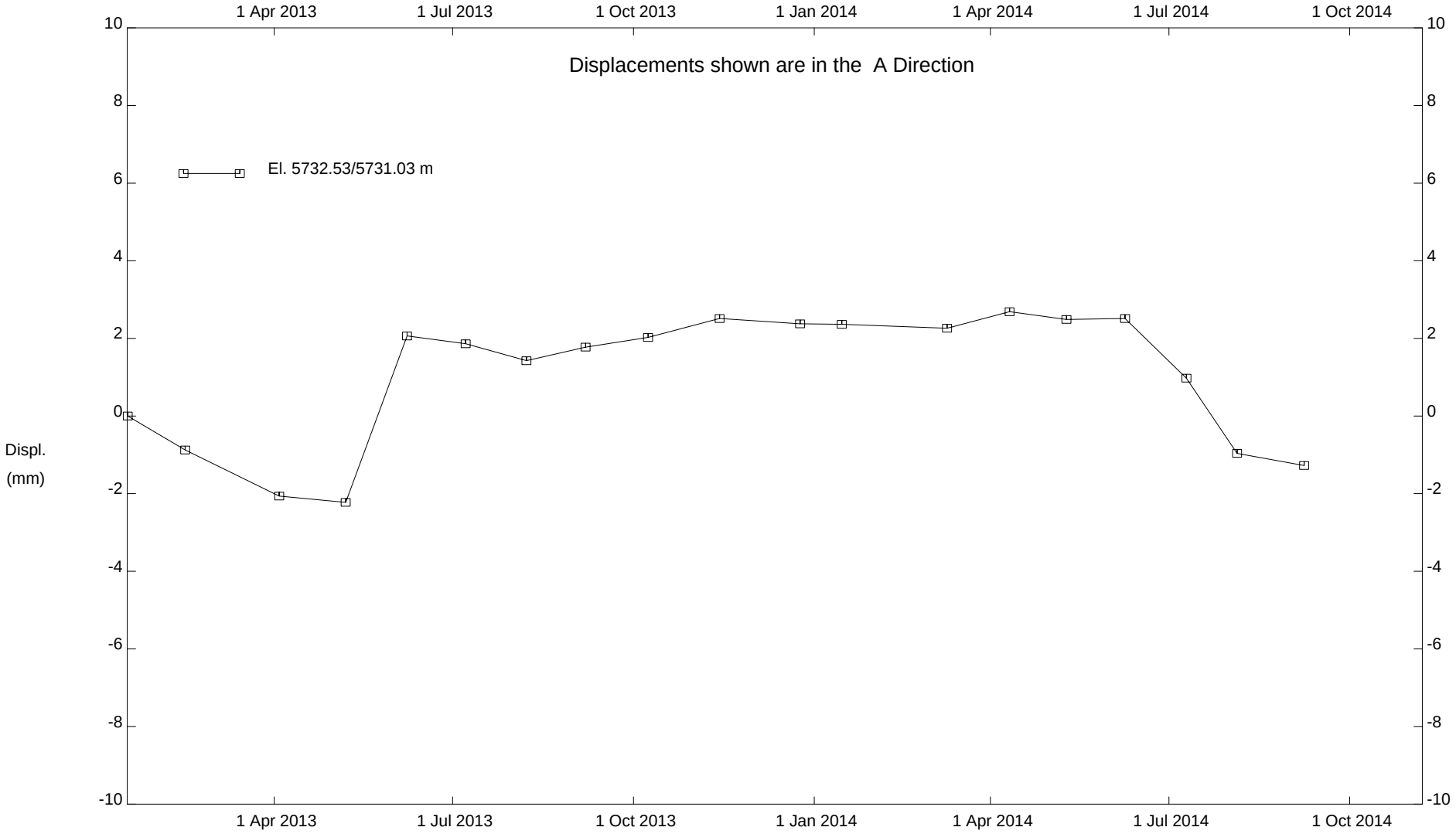


NEW AFTON - TSF, Inclinometer 29213 Dam C

New Gold Inc.

Positive A direction faces upstream, Positive B faces left abutment

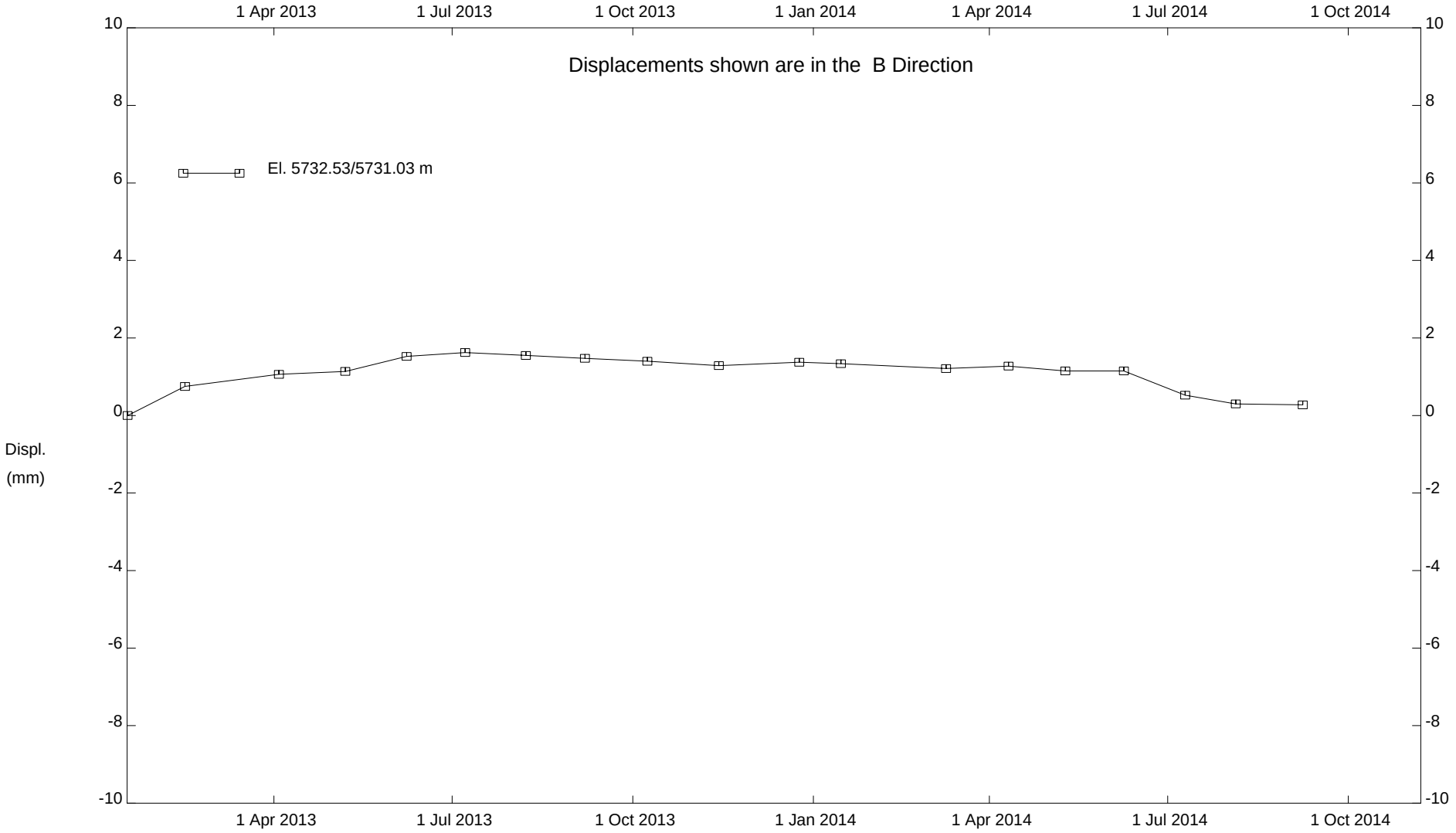
BGC Engineering Inc.



NEW AFTON - TSF, Inclinometer 29213 Dam C

New Gold Inc.

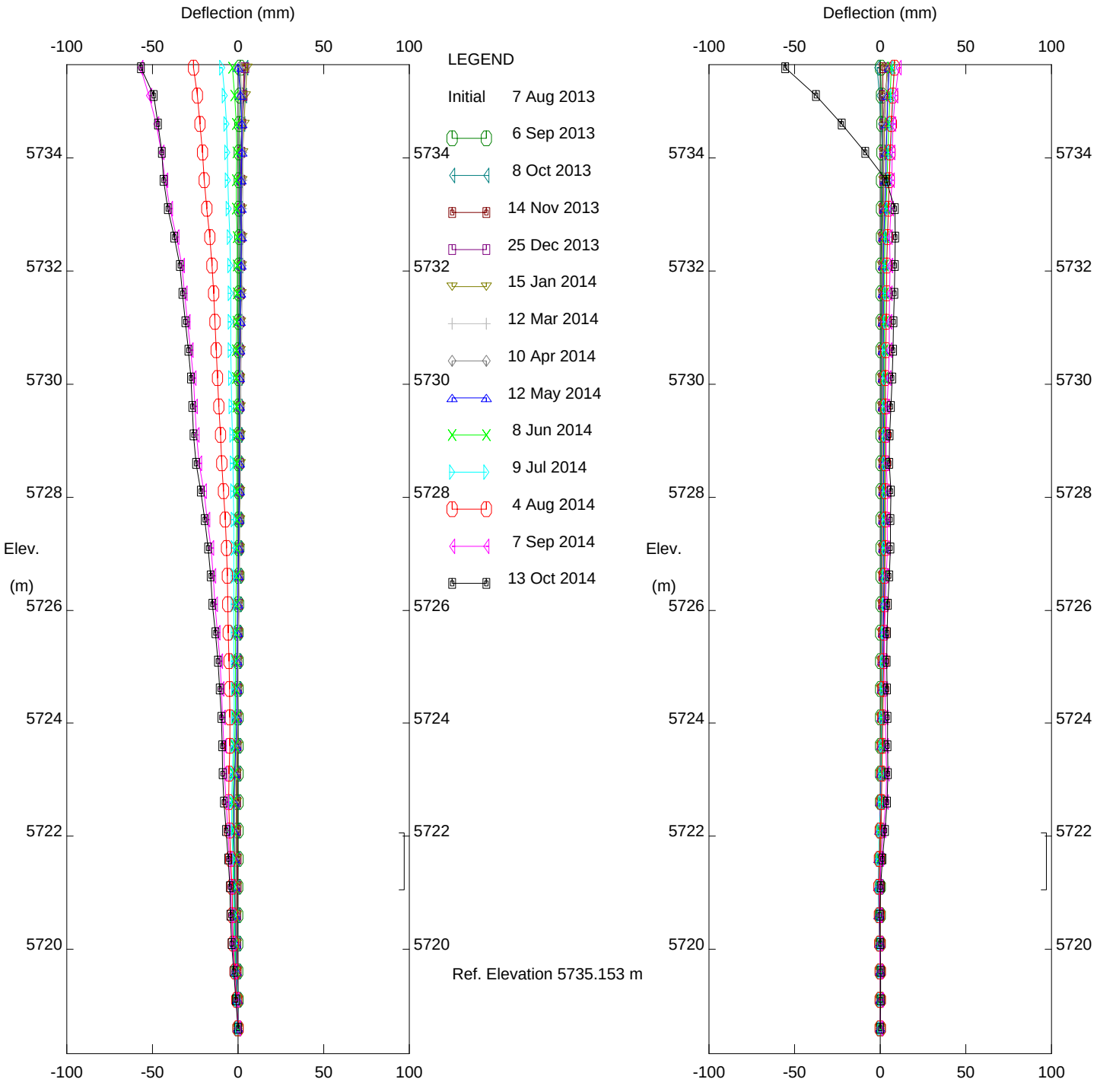
BGC Engineering Inc.



NEW AFTON - TSF, Inclinometer 29213 Dam C

New Gold Inc.

BGC Engineering Inc.



Cumulative Deflection

Direction A

Cumulative Deflection

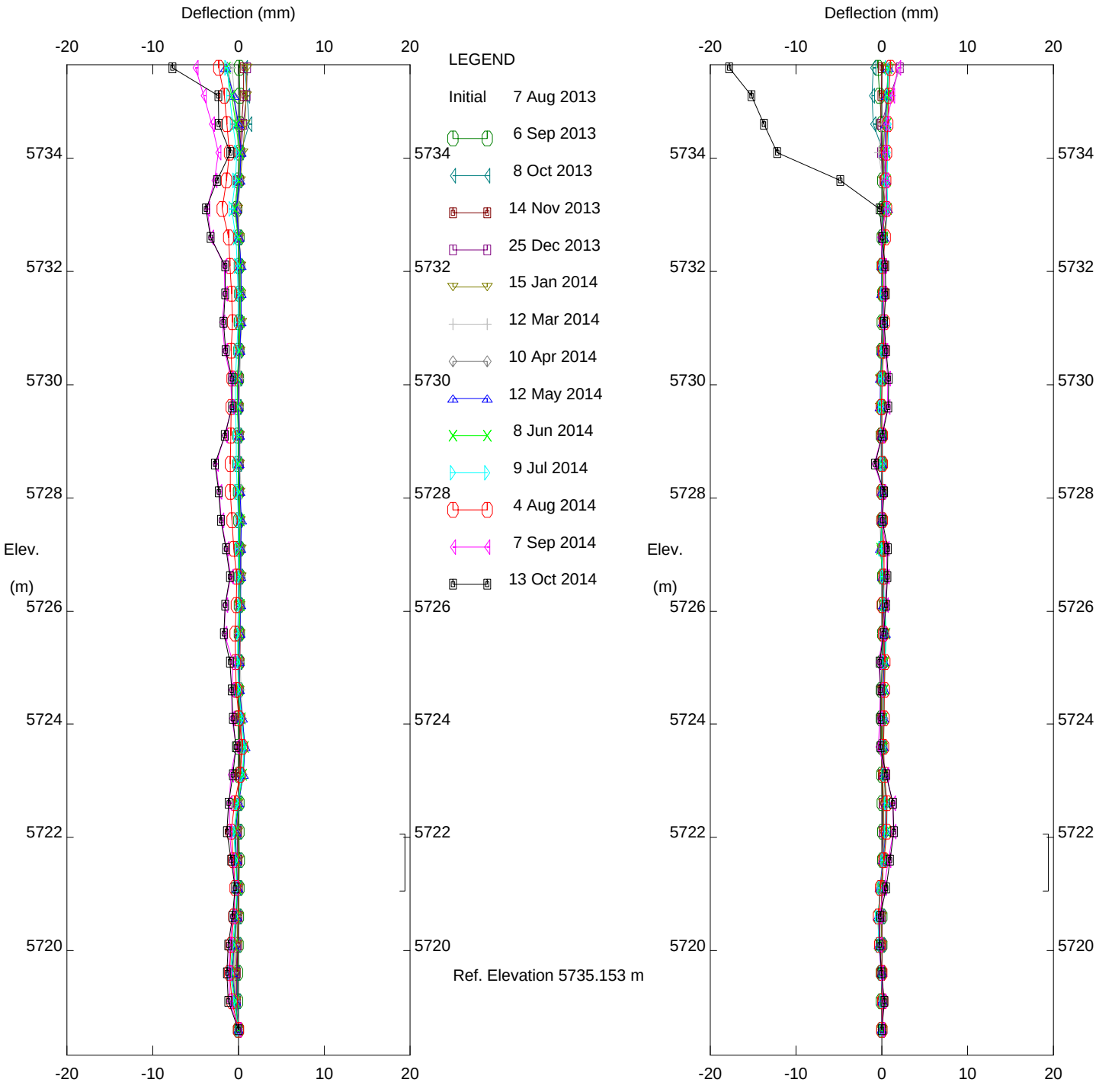
Direction B

NEW AFTON - TSF, Inclinometer 29215 Dam C

New Gold Inc.

Positive A direction faces upstream, Positive B faces left abutment

BGC Engineering Inc.

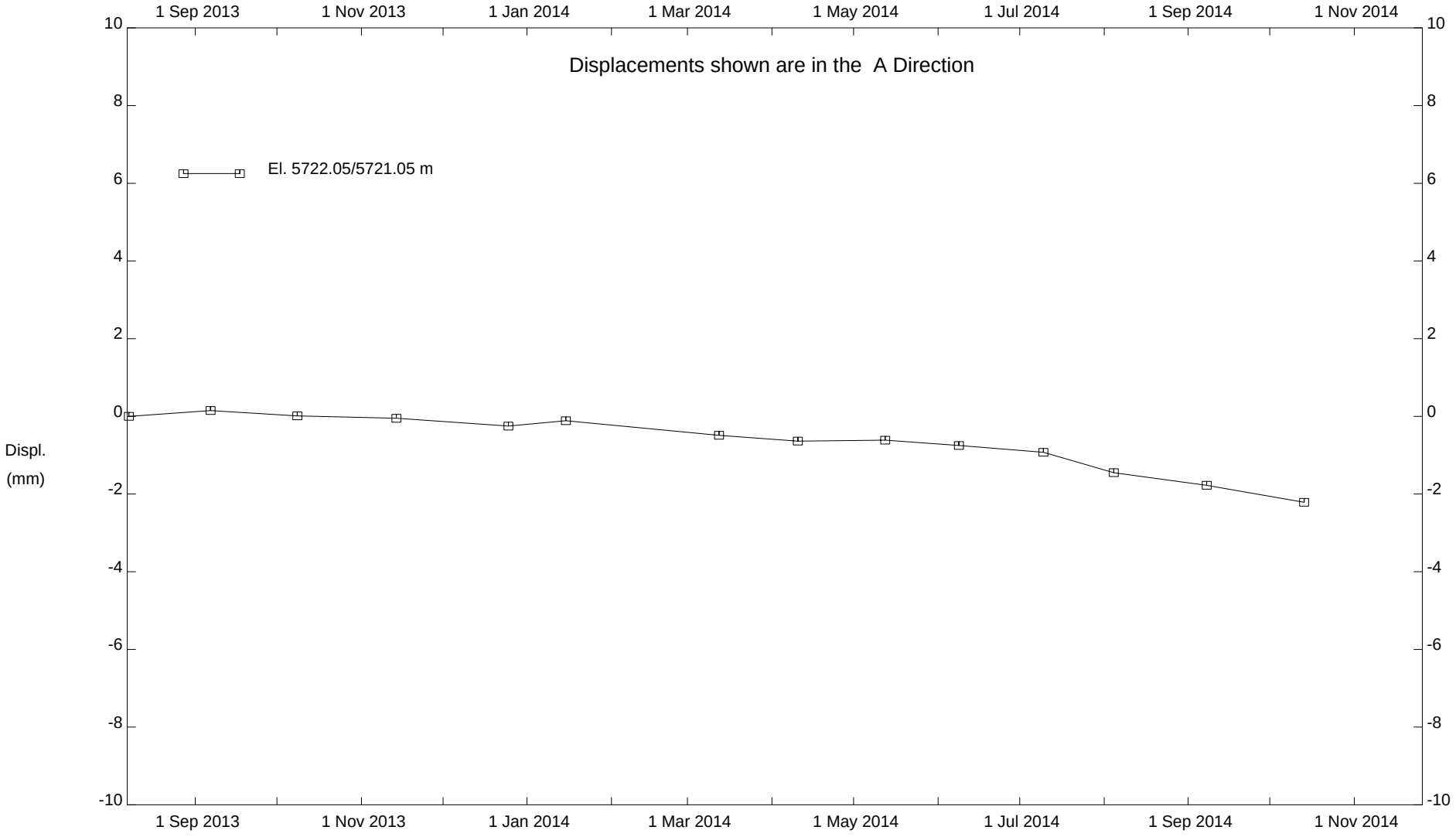


NEW AFTON - TSF, Inclinometer 29215 Dam C

New Gold Inc.

Positive A direction faces upstream, Positive B faces left abutment

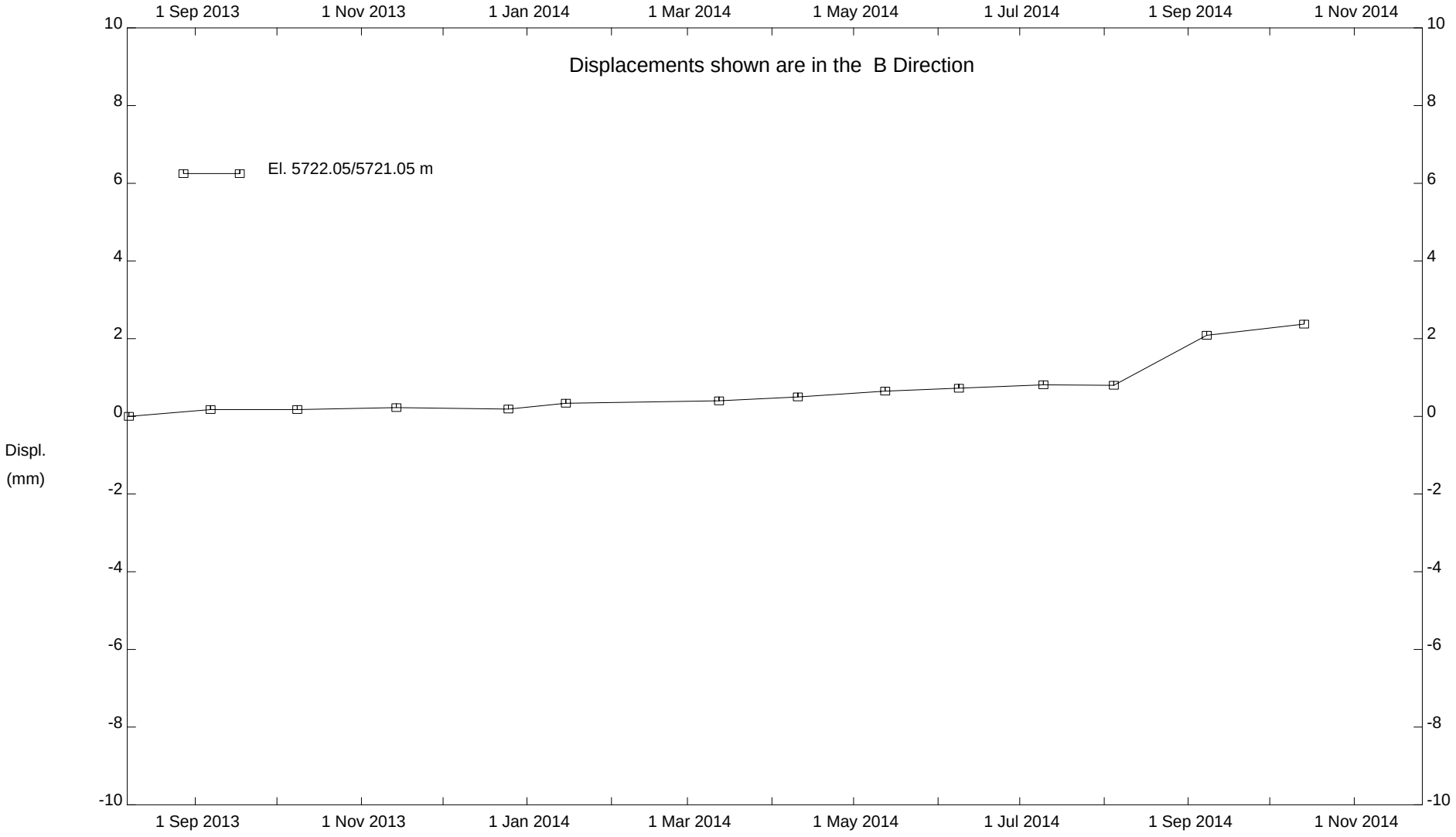
BGC Engineering Inc.



NEW AFTON - TSF, Inclinometer 29215 Dam C

New Gold Inc.

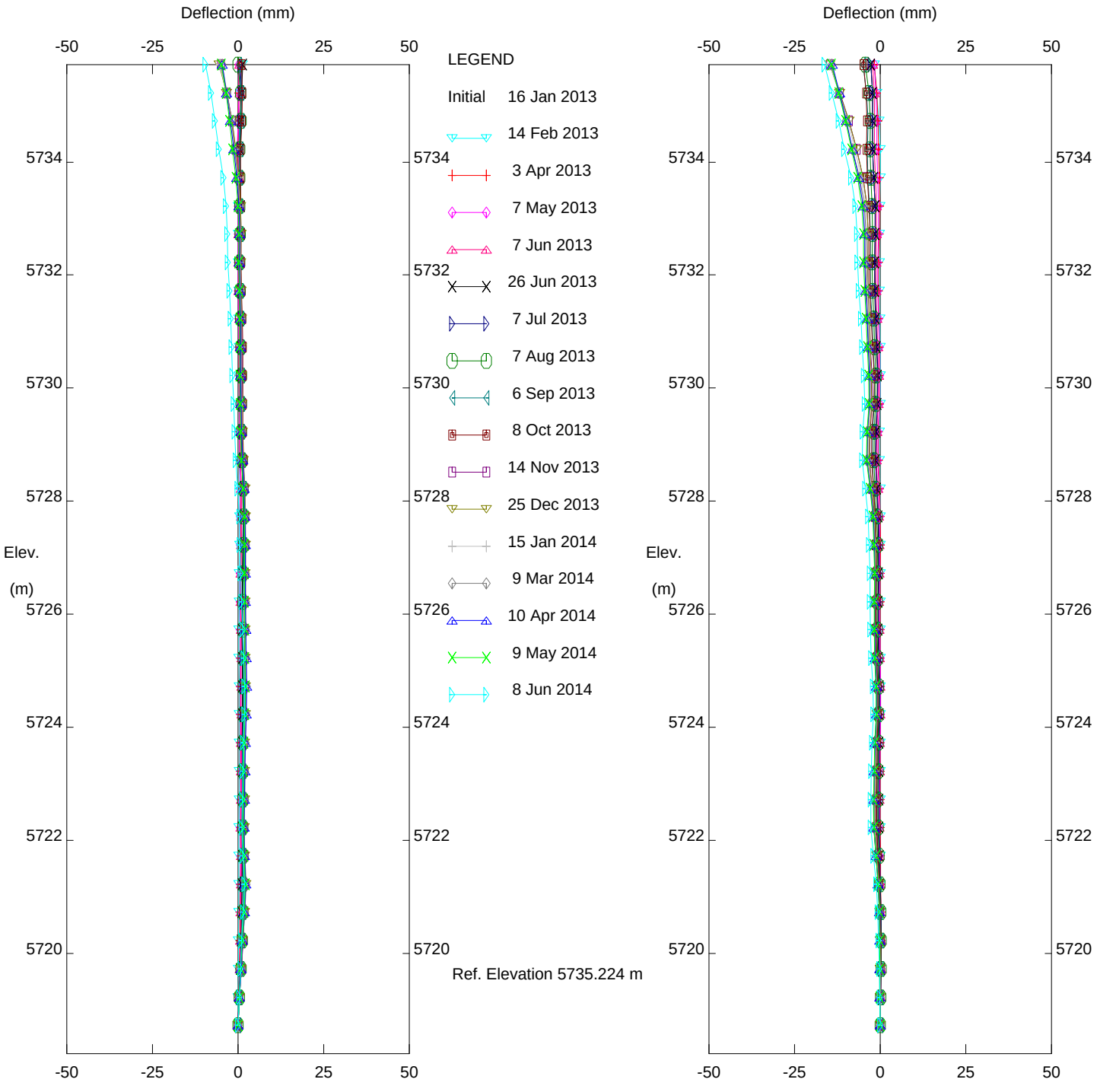
BGC Engineering Inc.



NEW AFTON - TSF, Inclinometer 29215 Dam C

New Gold Inc.

BGC Engineering Inc.



Cumulative Deflection

Direction A

Cumulative Deflection

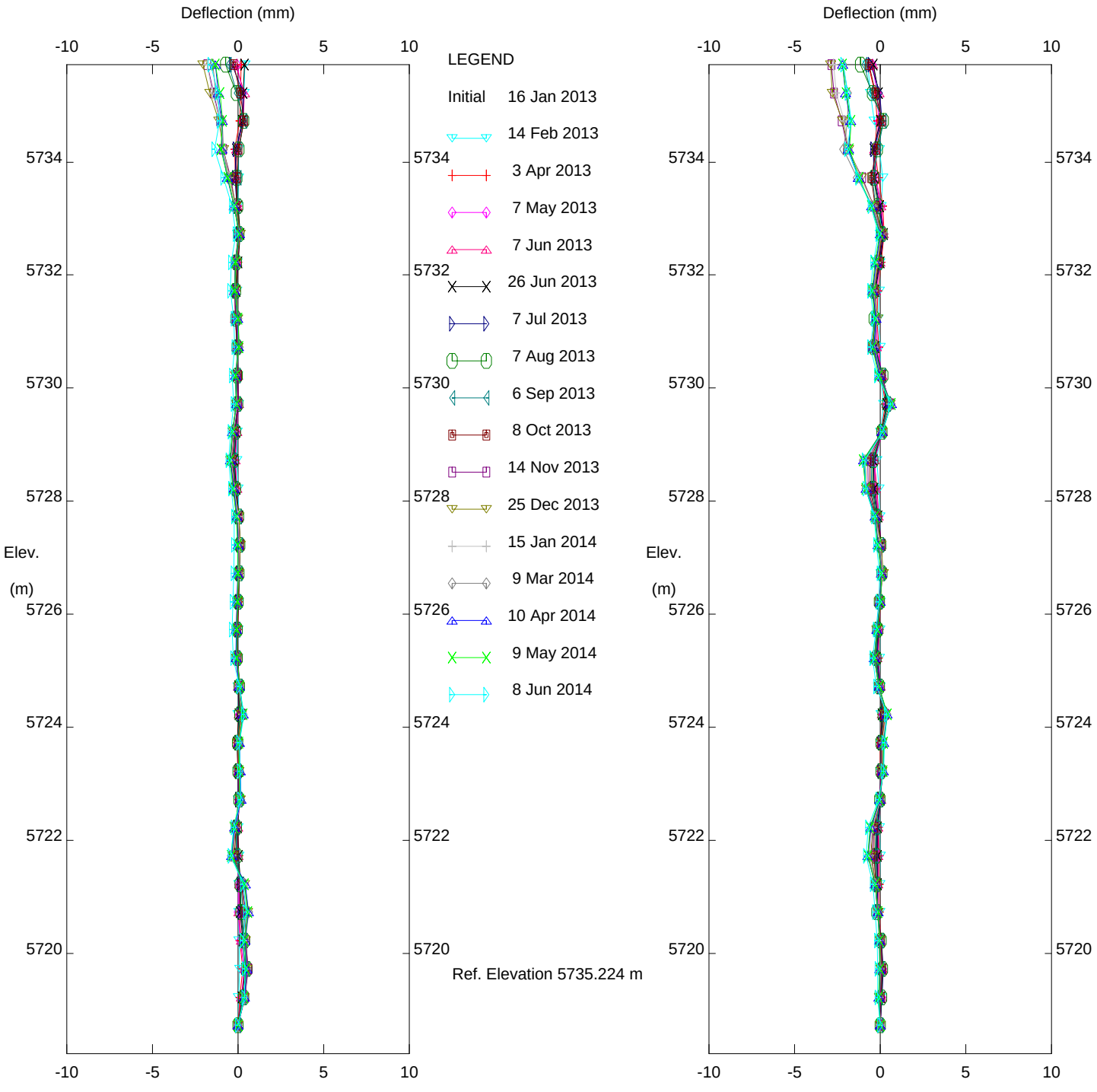
Direction B

NEW AFTON - TSF, Inclinometer 29219 Dam B

New Gold Inc.

Positive A direction faces upstream, Positive B faces left abutment

BGC Engineering Inc.

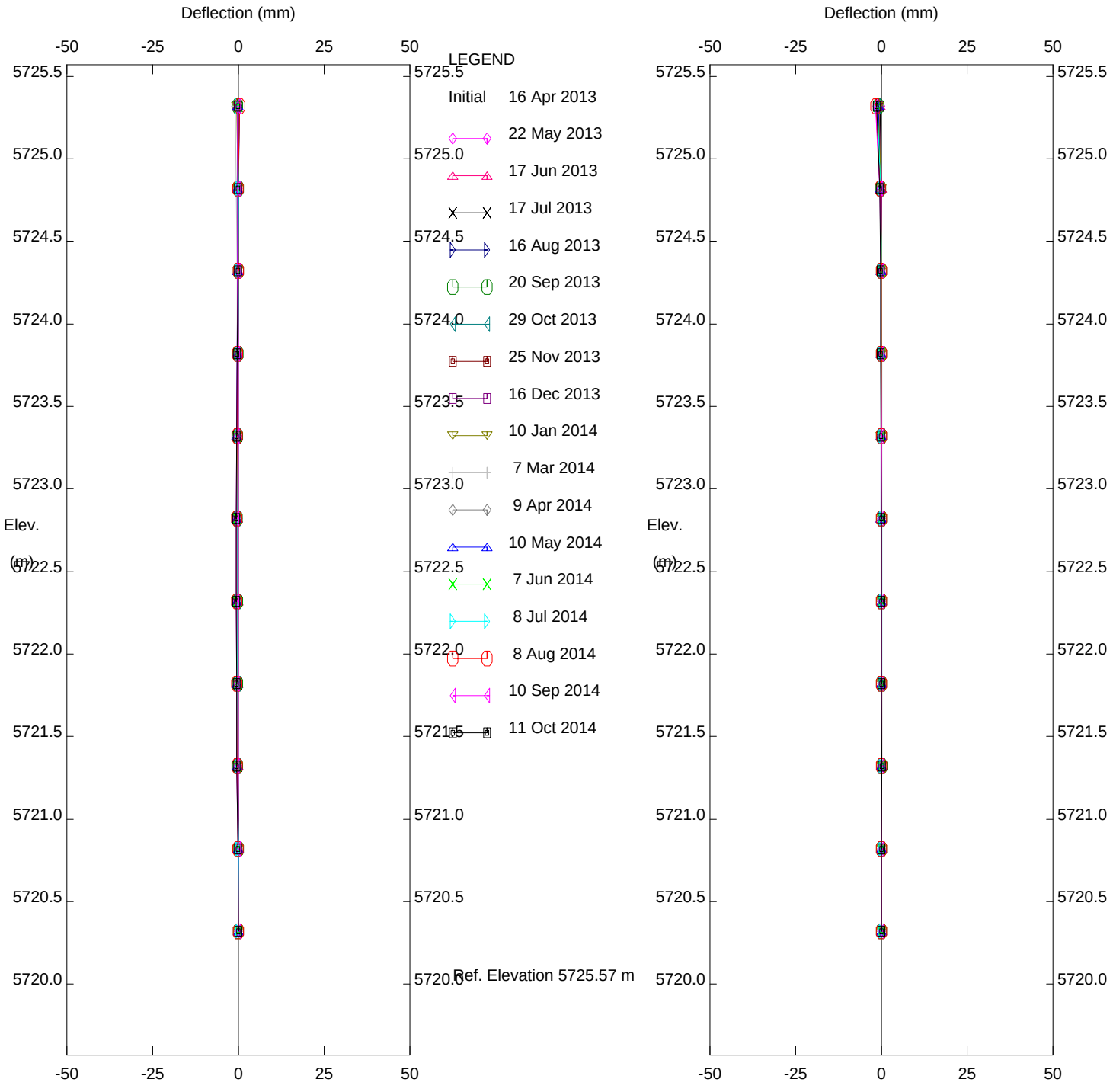


NEW AFTON - TSF, Inclinometer 29219 Dam B

New Gold Inc.

Positive A direction faces upstream, Positive B faces left abutment

BGC Engineering Inc.



Cumulative Deflection

Direction A

Cumulative Deflection

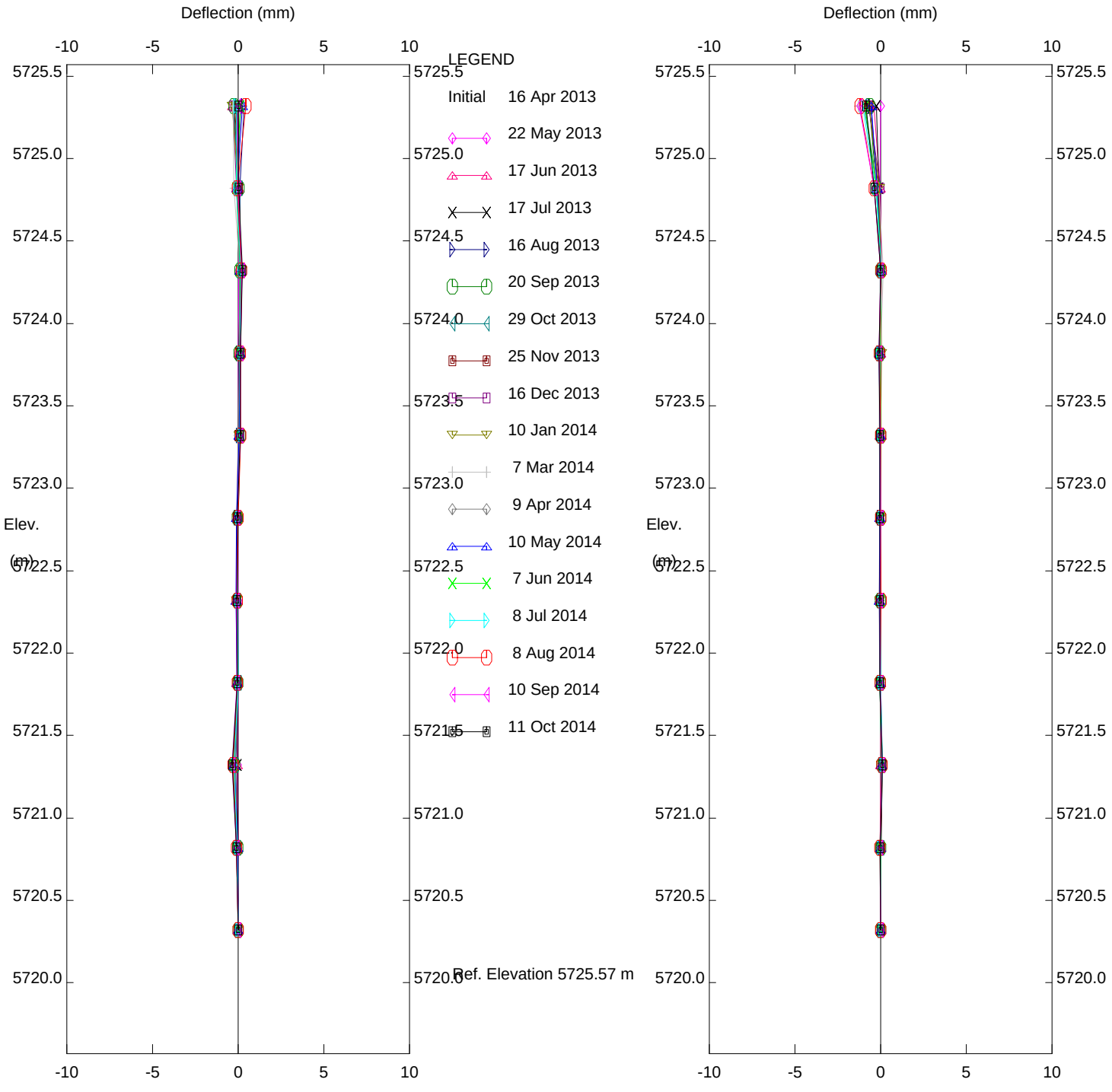
Direction B

New Afton - Pothook, Inclinometer Borehole 1

New Gold Inc.

Positive A direction faces upstream, Positive B faces left abutment

BGC Engineering Inc.



Incremental Deflection

Direction A

Incremental Deflection

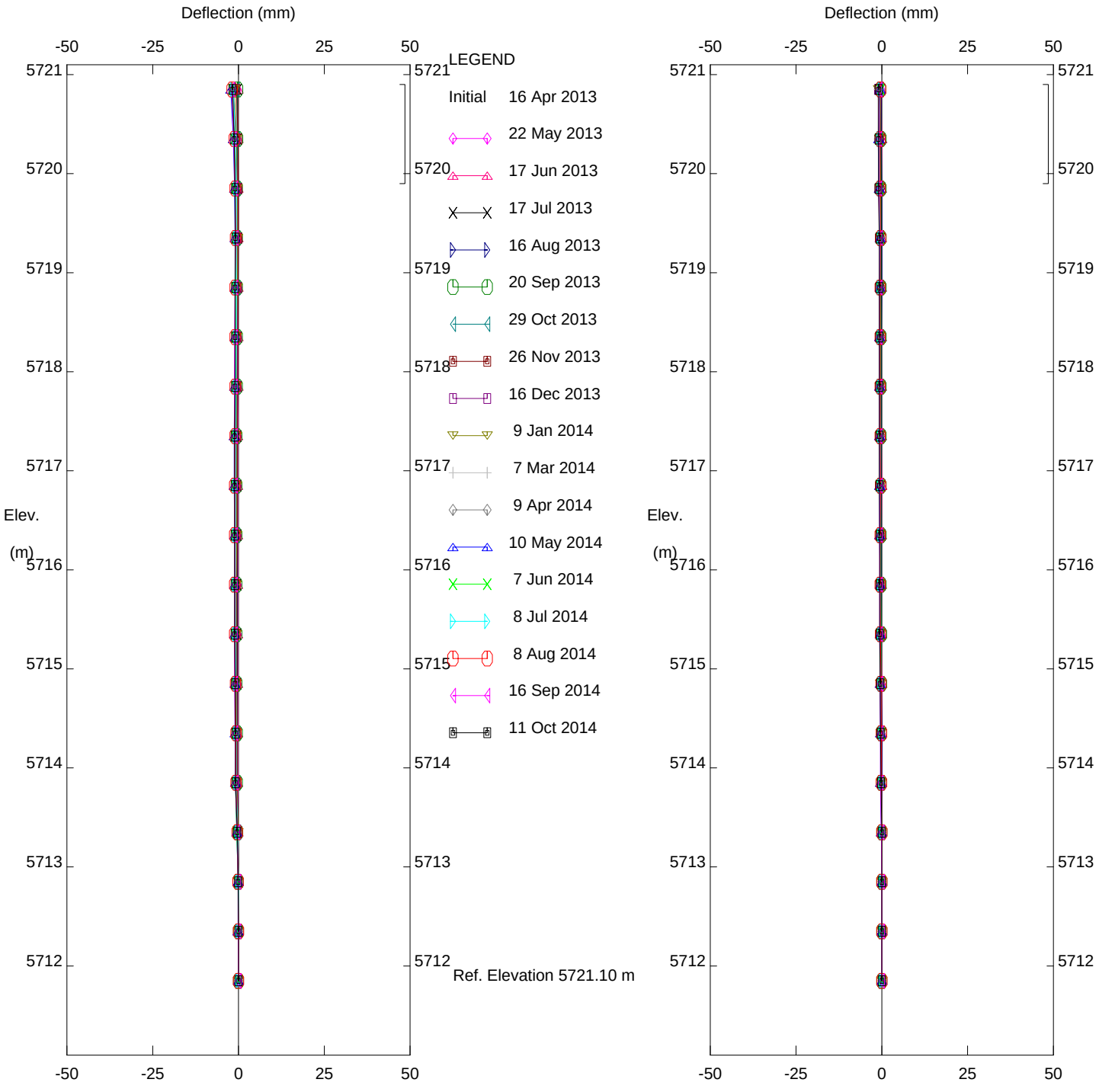
Direction B

New Afton - Pothook, Inclinometer Borehole 1

New Gold Inc.

Positive A direction faces upstream, Positive B faces left abutment

BGC Engineering Inc.



Cumulative Deflection

Direction A

Cumulative Deflection

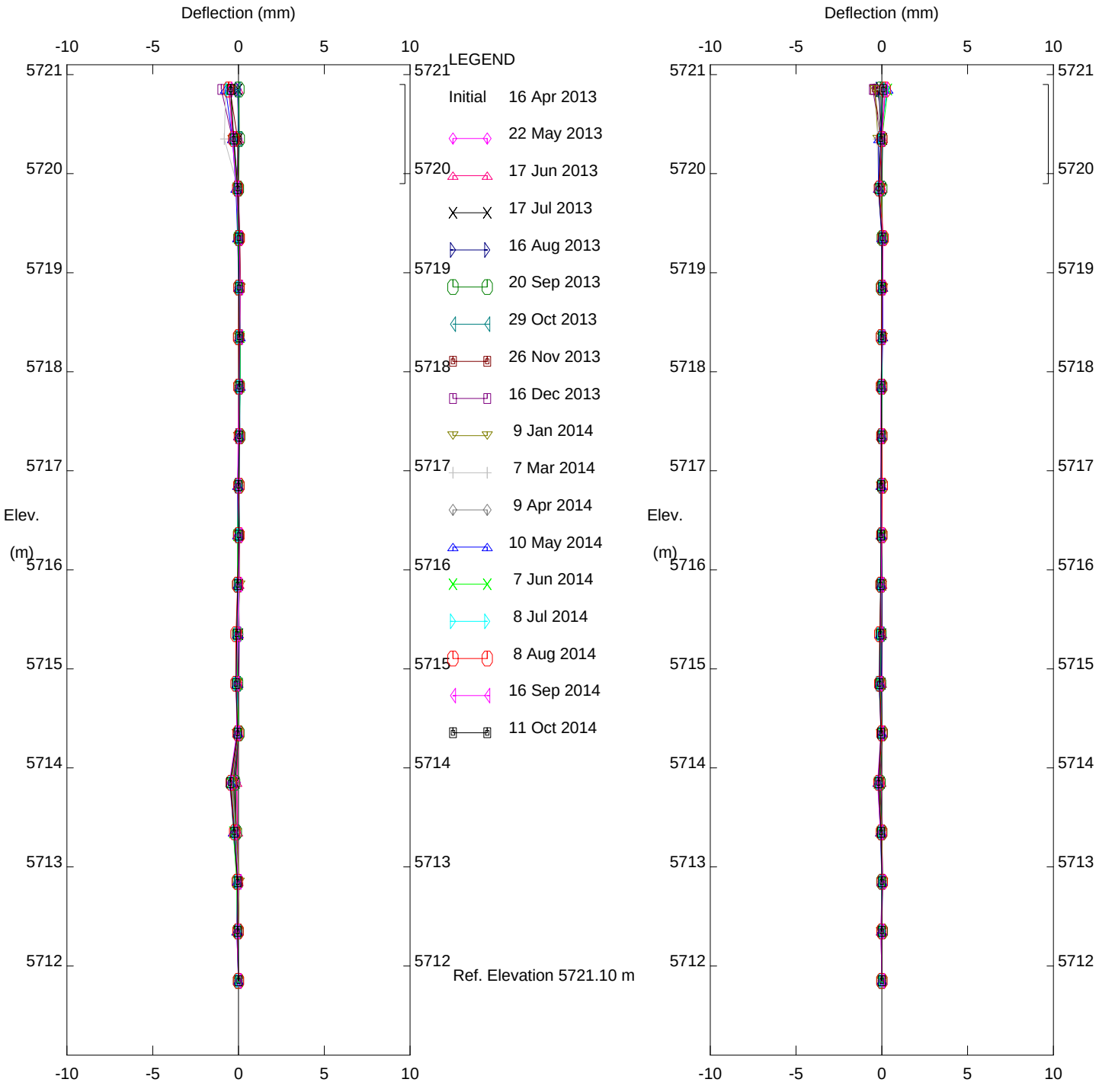
Direction B

New Afton - Pothook, Inclinometer Borehole 2

New Gold Inc.

Positive A direction faces upstream, Positive B faces left abutment

BGC Engineering Inc.



Incremental Deflection

Direction A

Incremental Deflection

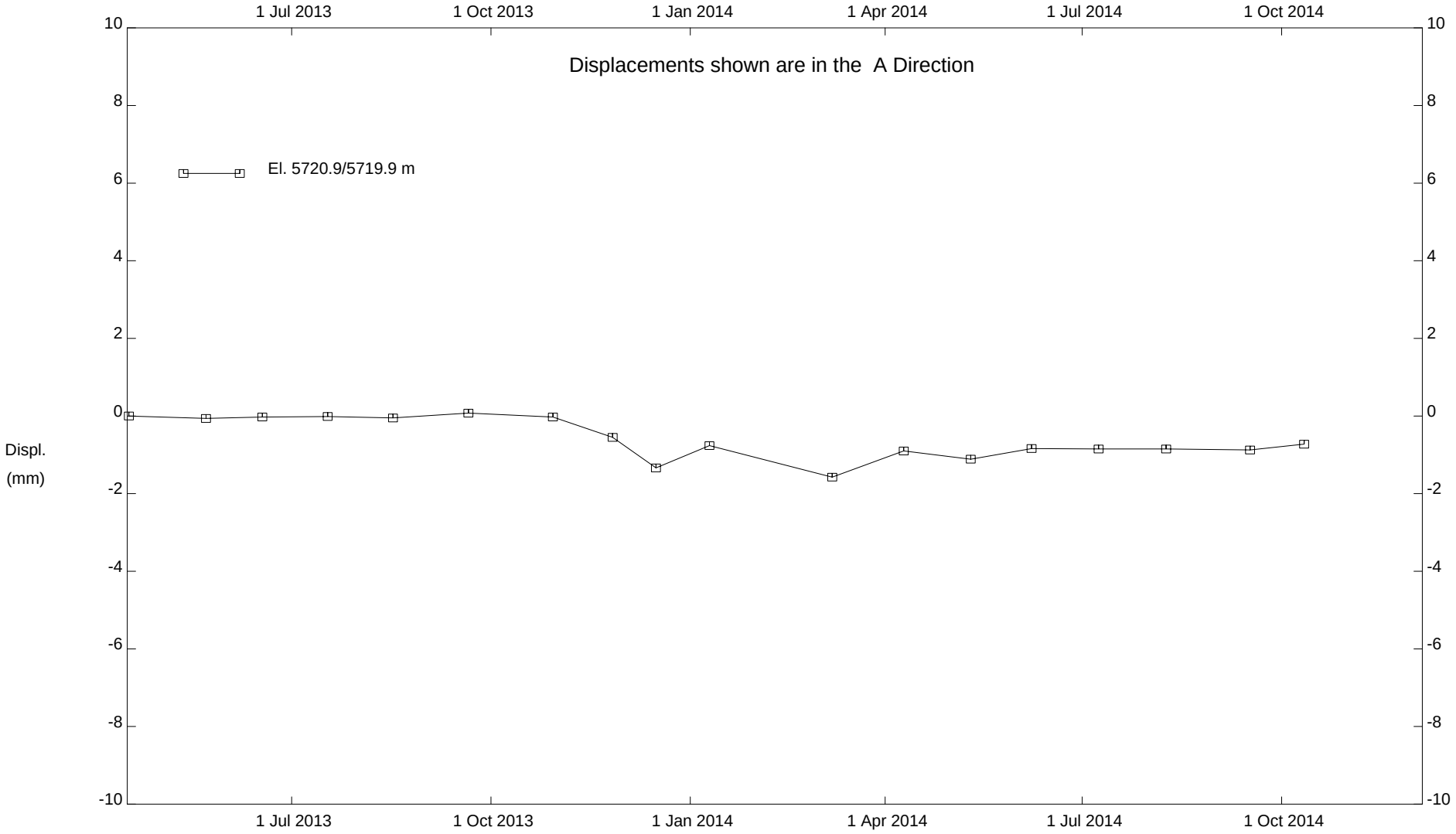
Direction B

New Afton - Pothook, Inclinometer Borehole 2

New Gold Inc.

Positive A direction faces upstream, Positive B faces left abutment

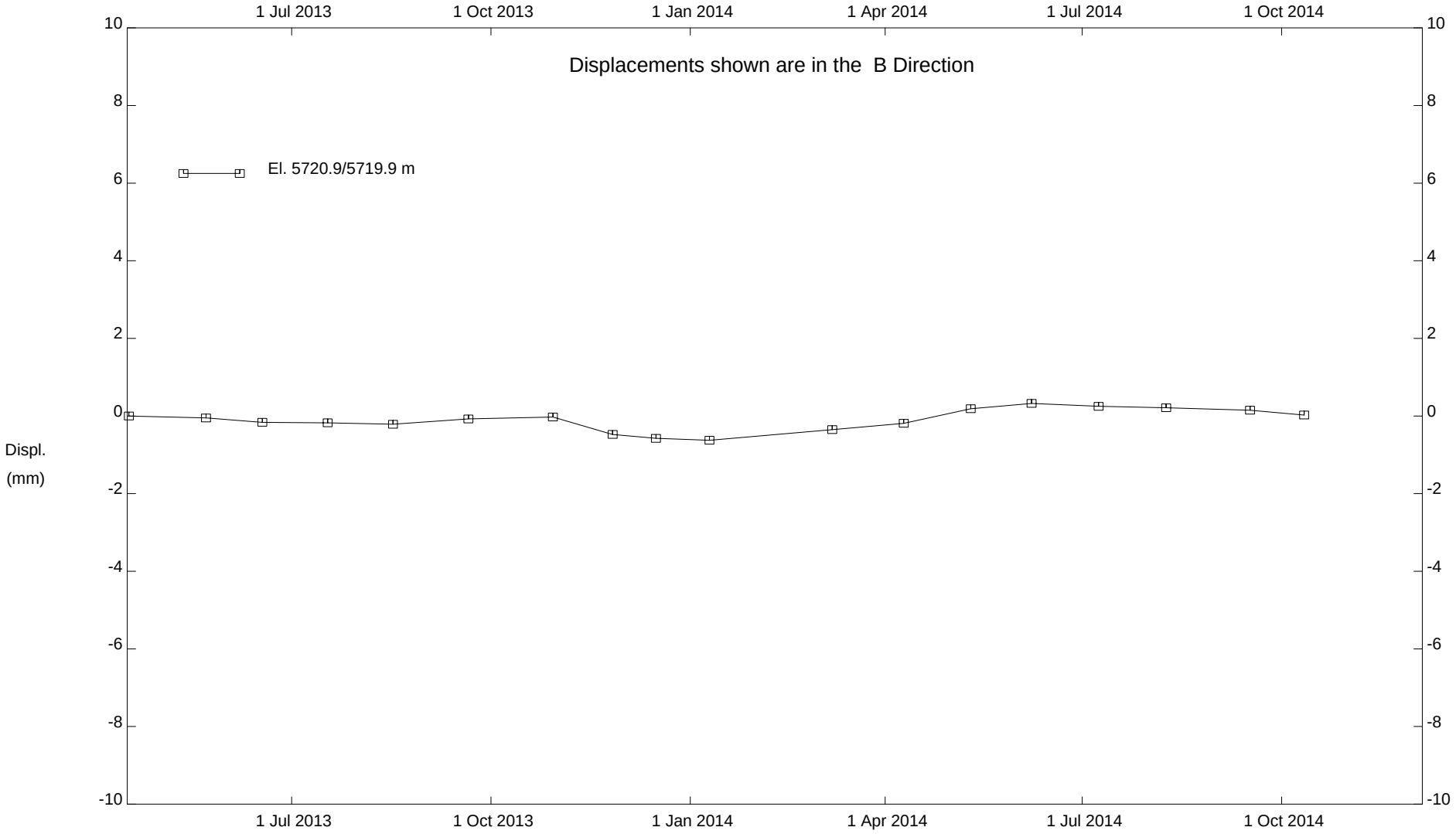
BGC Engineering Inc.



New Afton - Pothook, Inclinometer Borehole 2

New Gold Inc.

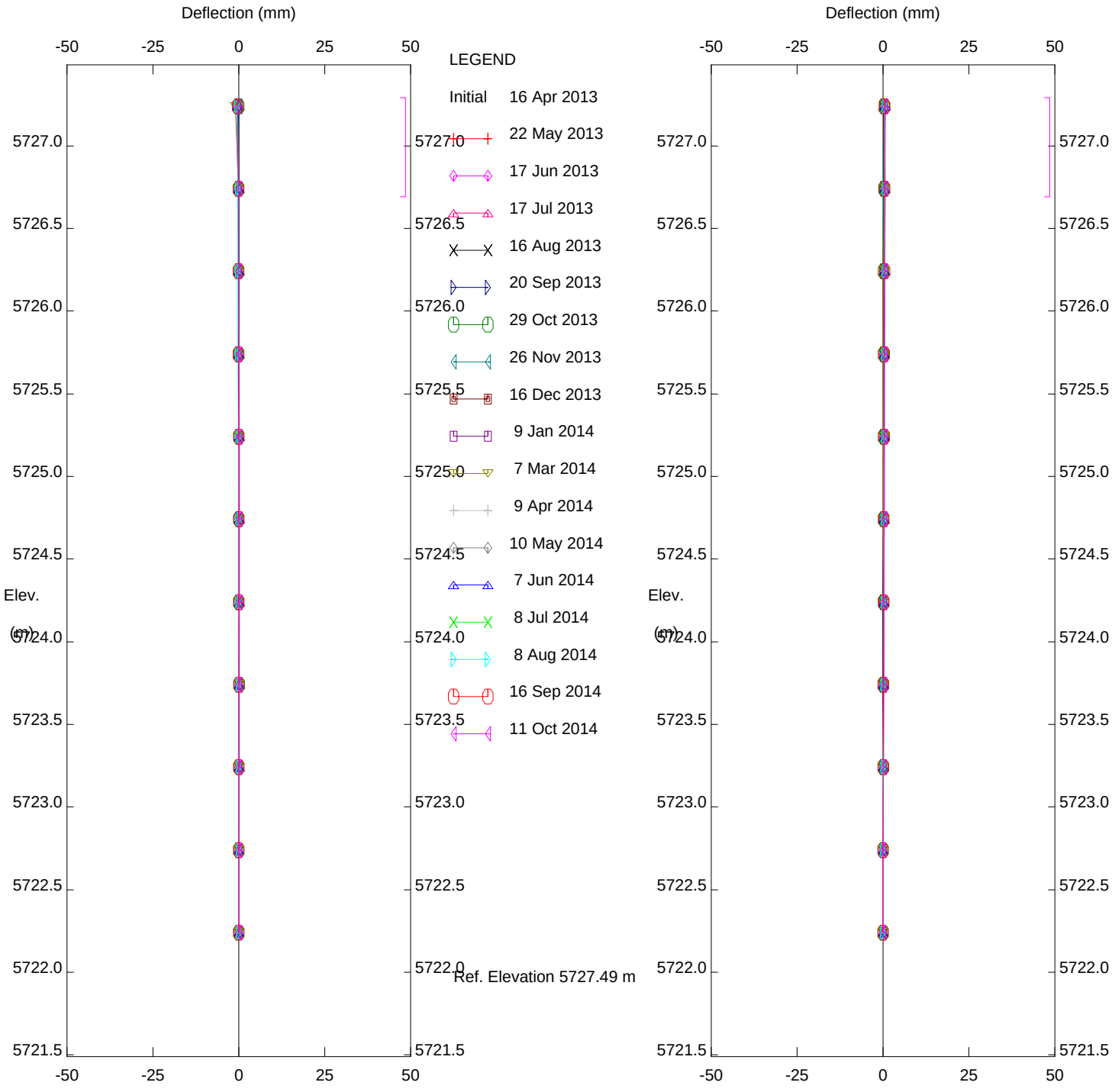
BGC Engineering Inc.



New Afton - Pothook, Inclinometer Borehole 2

New Gold Inc.

BGC Engineering Inc.



Cumulative Deflection Direction A

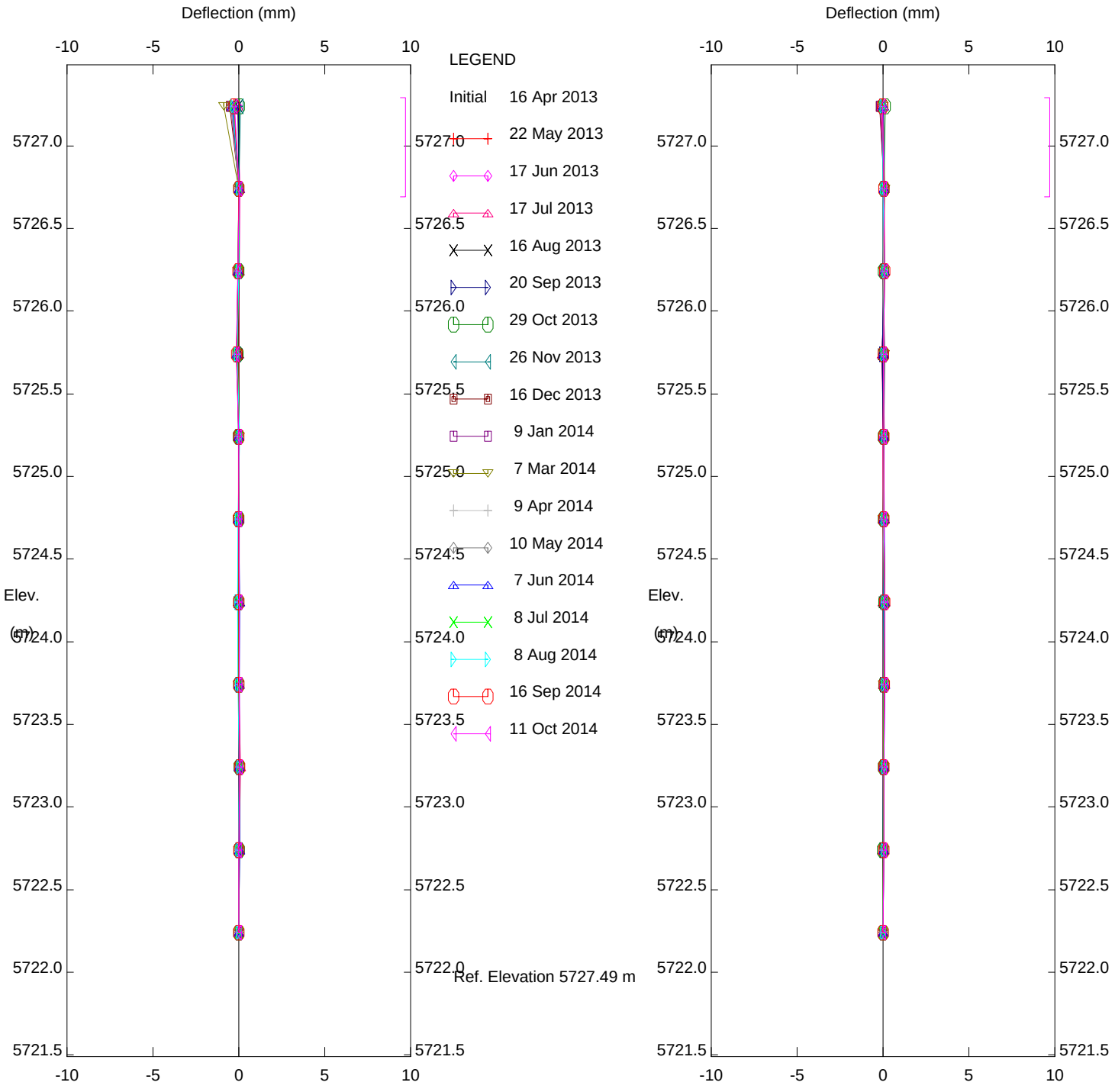
Cumulative Deflection Direction B

New Afton - Pothook, Inclinometer Borehole 3

New Gold Inc.

Positive A direction faces upstream, Positive B faces left abutment

BGC Engineering Inc.



Incremental Deflection

Direction A

Incremental Deflection

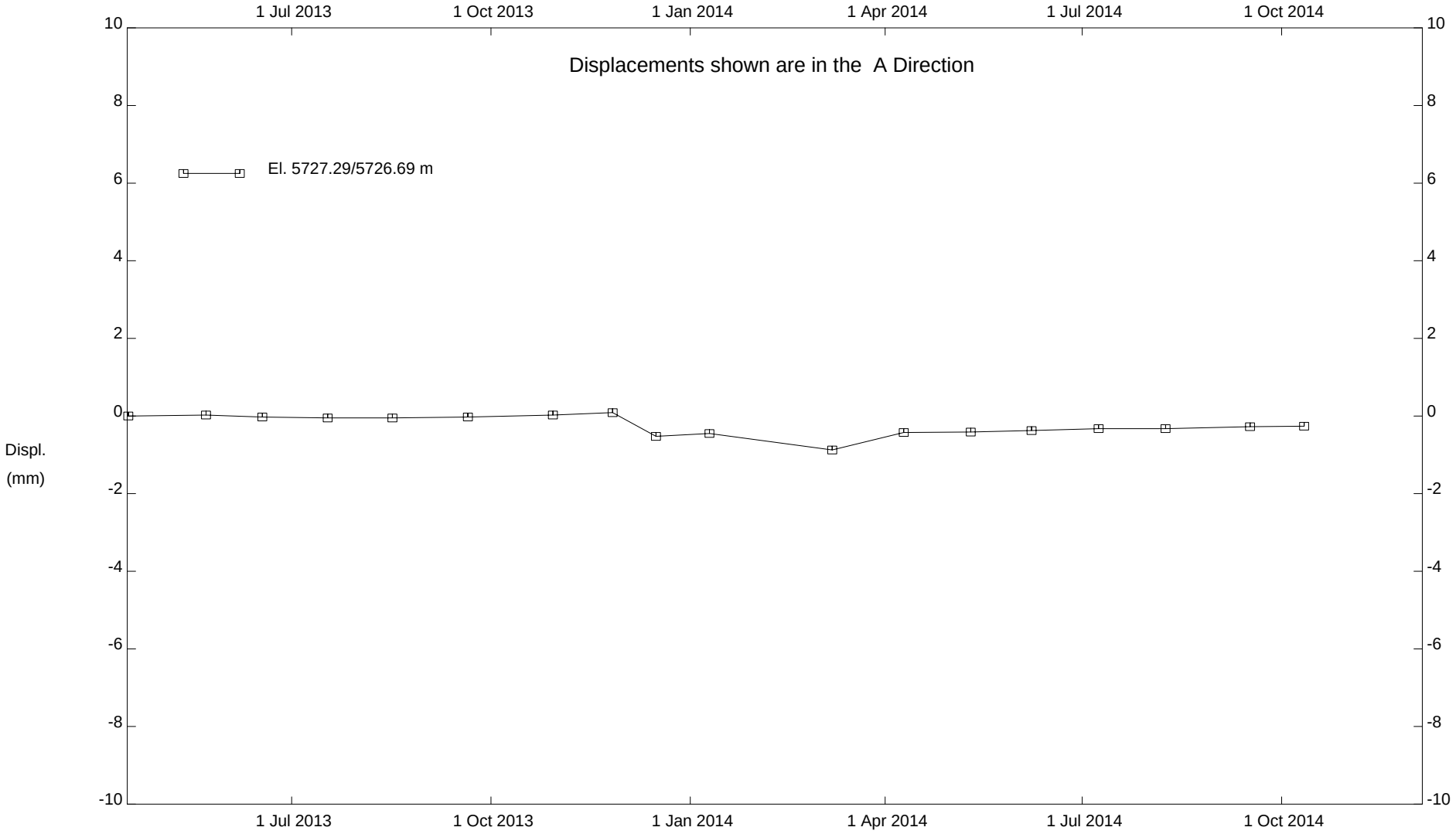
Direction B

New Afton - Pothook, Inclinometer Borehole 3

New Gold Inc.

Positive A direction faces upstream, Positive B faces left abutment

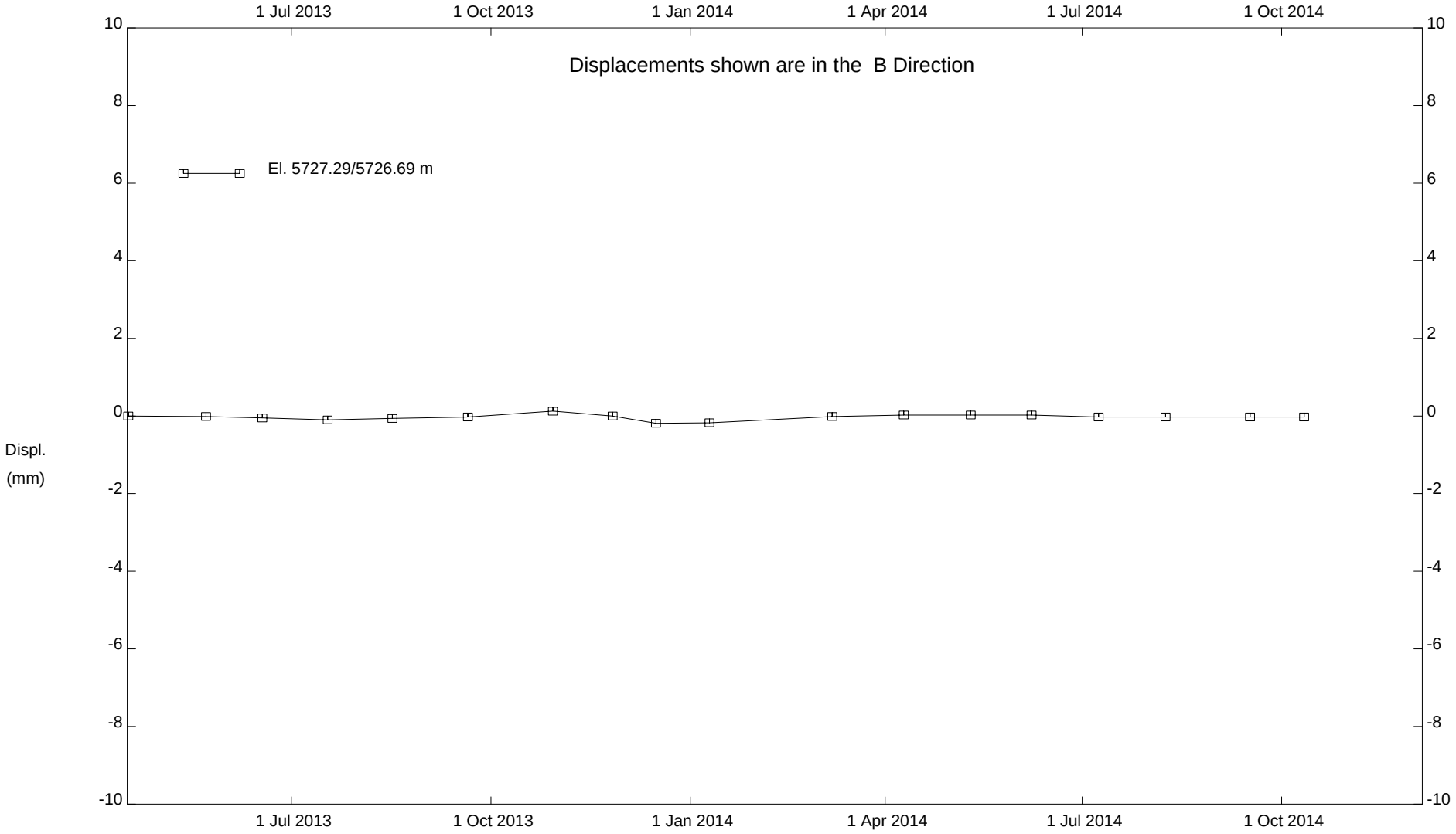
BGC Engineering Inc.



New Afton - Pothook, Inclinometer Borehole 3

New Gold Inc.

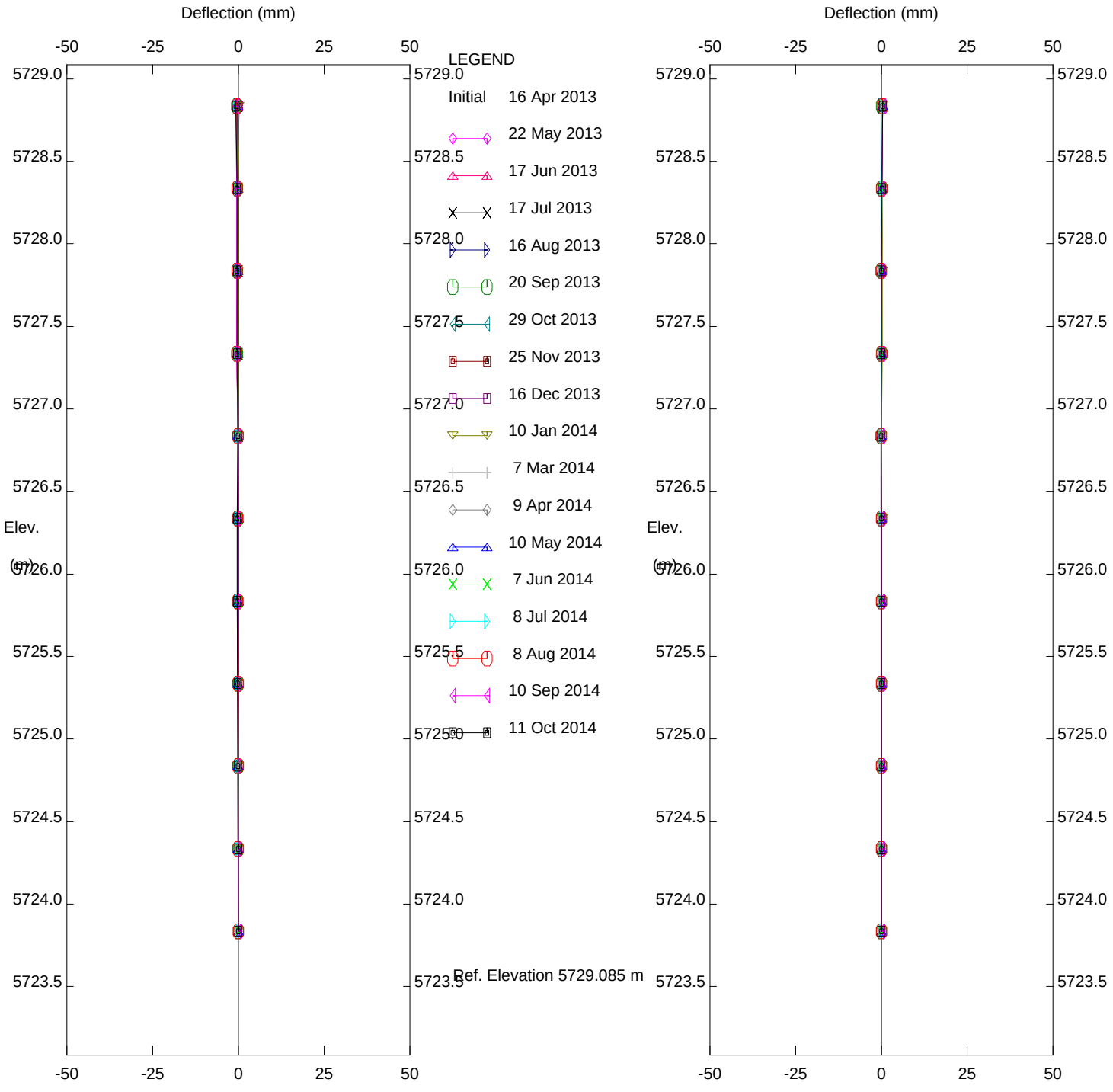
BGC Engineering Inc.



New Afton - Pothook, Inclinometer Borehole 3

New Gold Inc.

BGC Engineering Inc.



Cumulative Deflection

Direction A

Cumulative Deflection

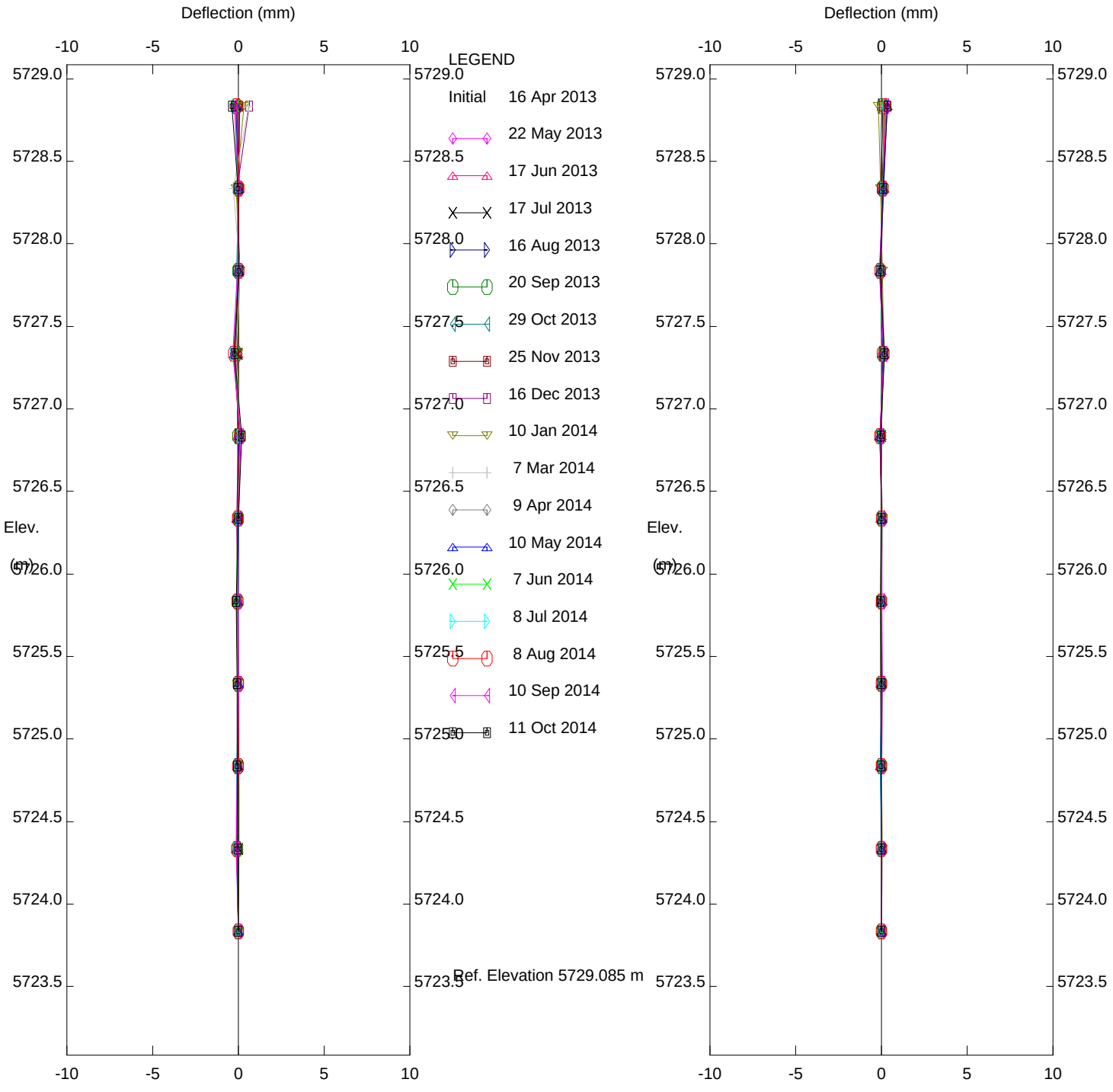
Direction B

New Afton - Pothook, Inclinometer Borehole 4

New Gold Inc.

Positive A direction faces upstream, Positive B faces left abutment

BGC Engineering Inc.



Incremental Deflection

Direction A

Incremental Deflection

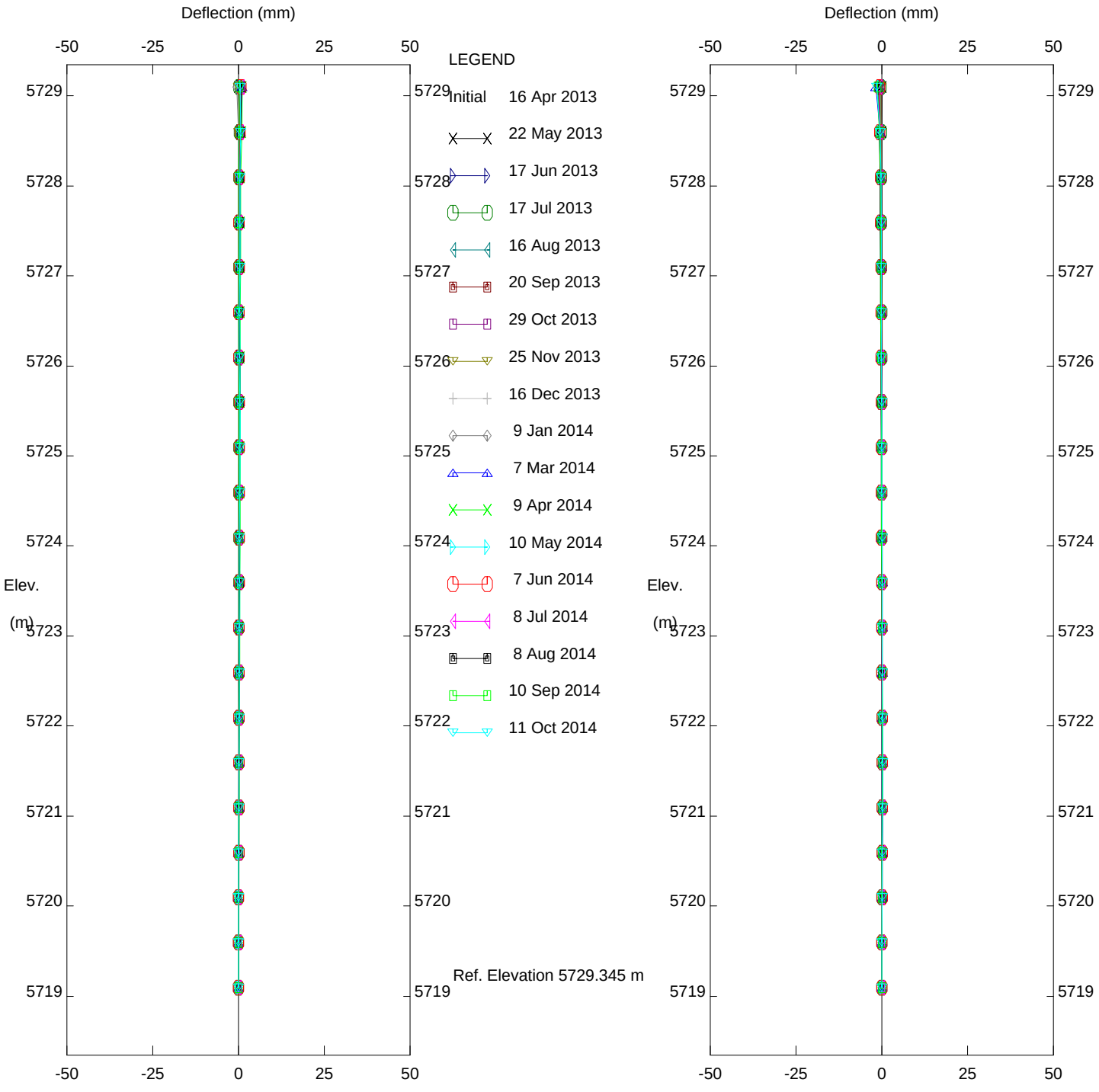
Direction B

New Afton - Pothook, Inclinometer Borehole 4

New Gold Inc.

Positive A direction faces upstream, Positive B faces left abutment

BGC Engineering Inc.

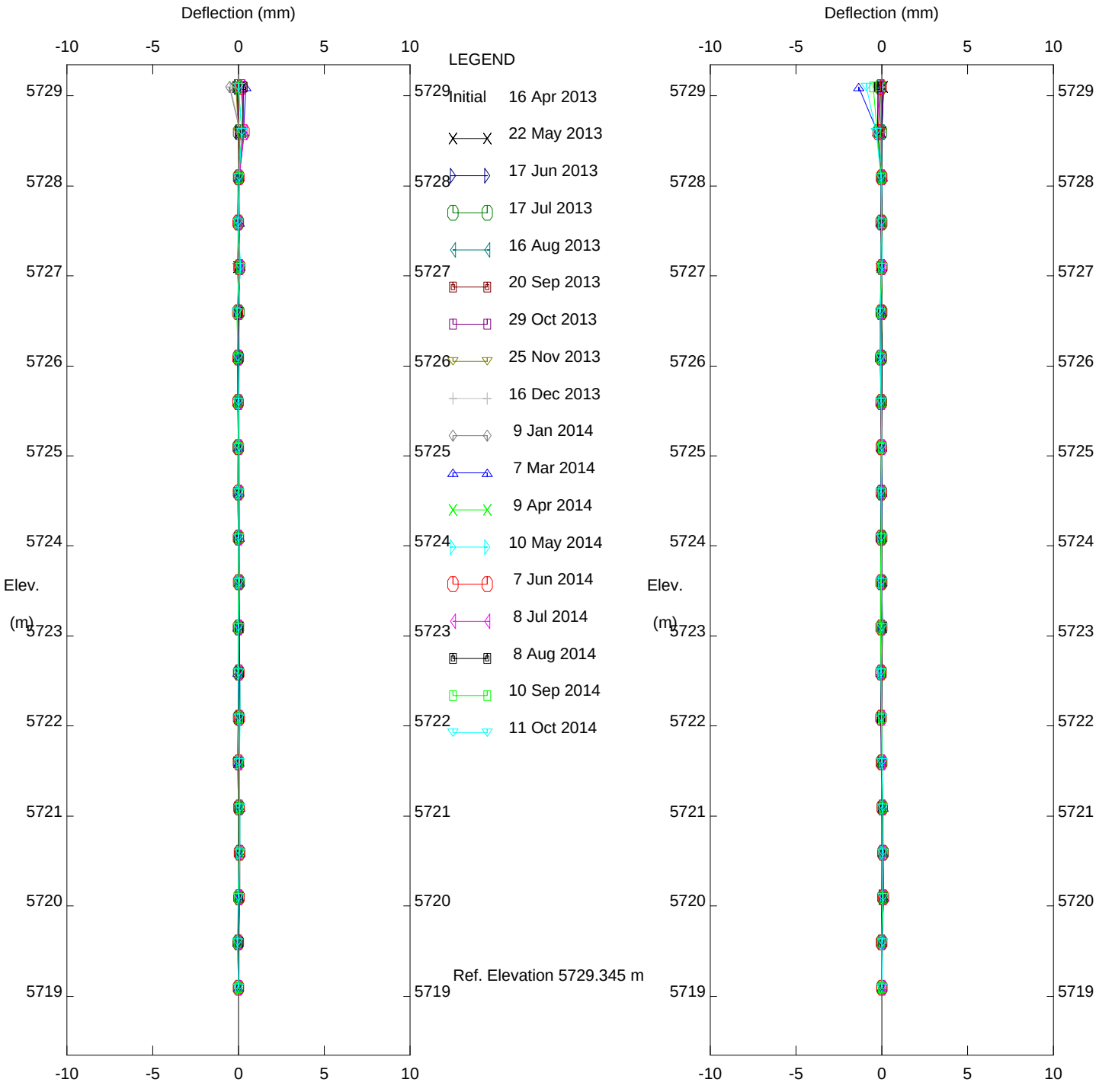


New Afton - Pothook, Inclinometer Borehole 5

New Gold Inc.

Positive A direction faces upstream, Positive B faces left abutment

BGC Engineering Inc.



Incremental Deflection

Direction A

Incremental Deflection

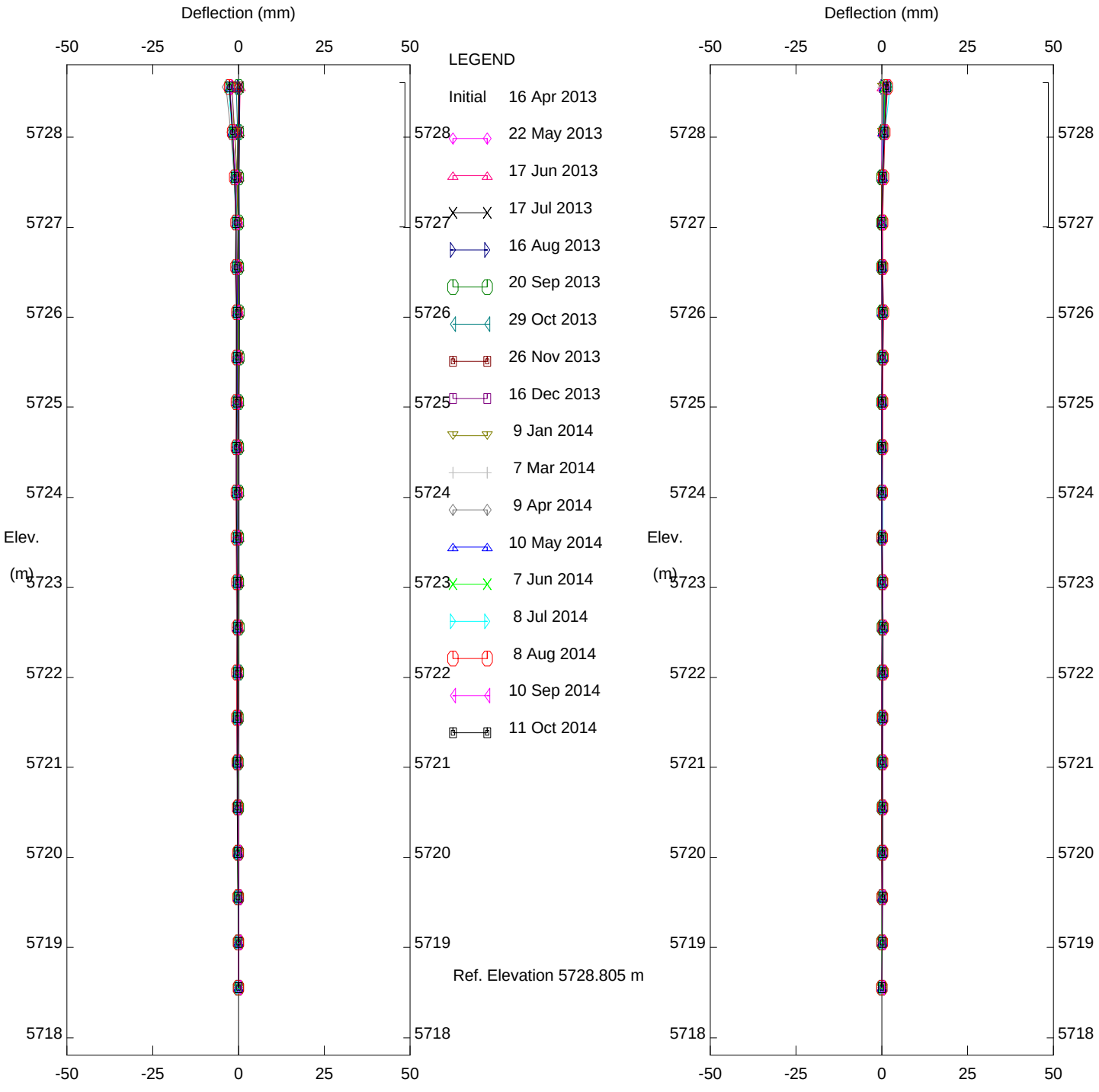
Direction B

New Afton - Pothook, Inclinometer Borehole 5

New Gold Inc.

Positive A direction faces upstream, Positive B faces left abutment

BGC Engineering Inc.



Cumulative Deflection

Direction A

Cumulative Deflection

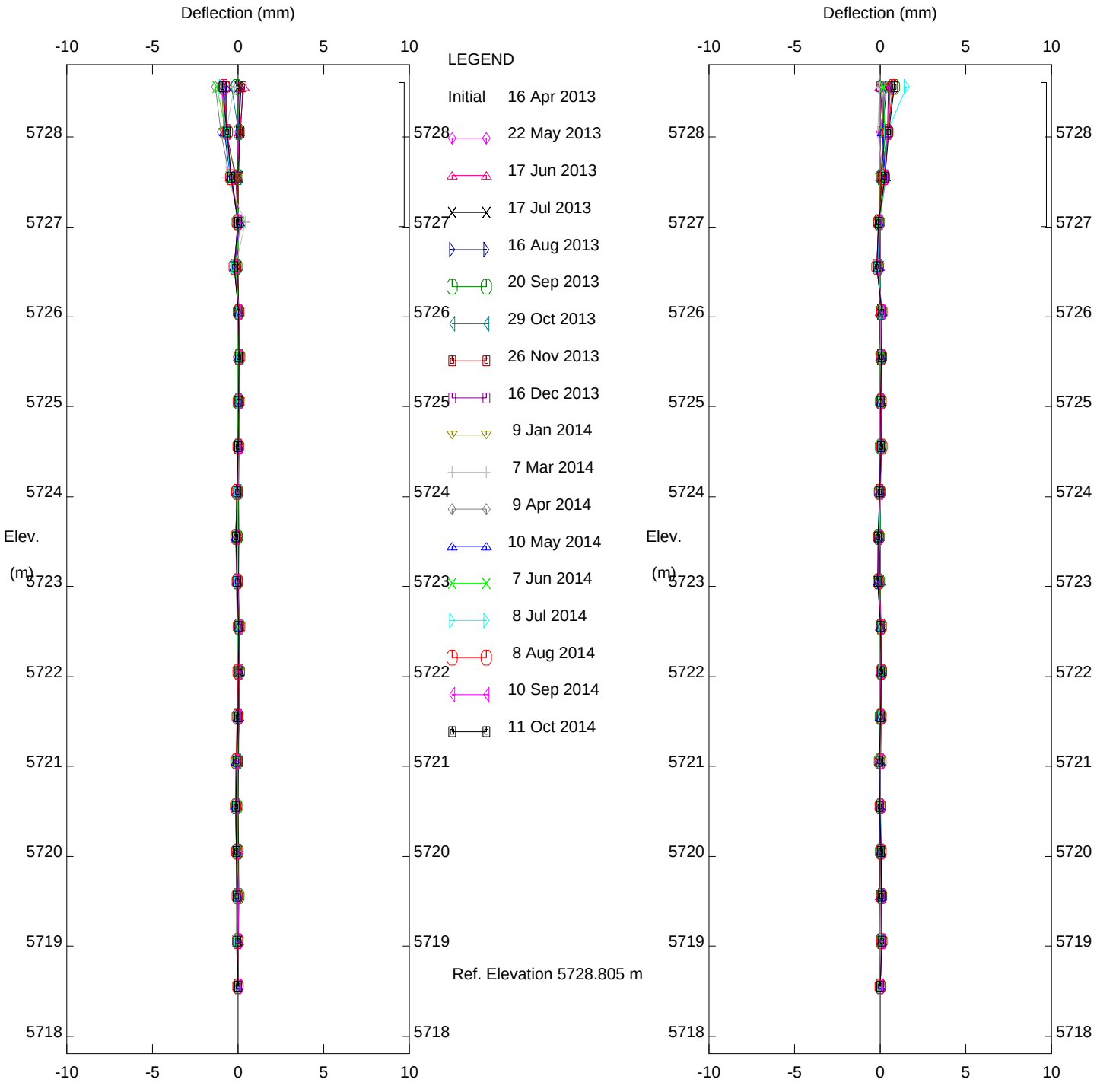
Direction B

New Afton - Pothook, Inclinometer Borehole 6

New Gold Inc.

Positive A direction faces upstream, Positive B faces left abutment

BGC Engineering Inc.

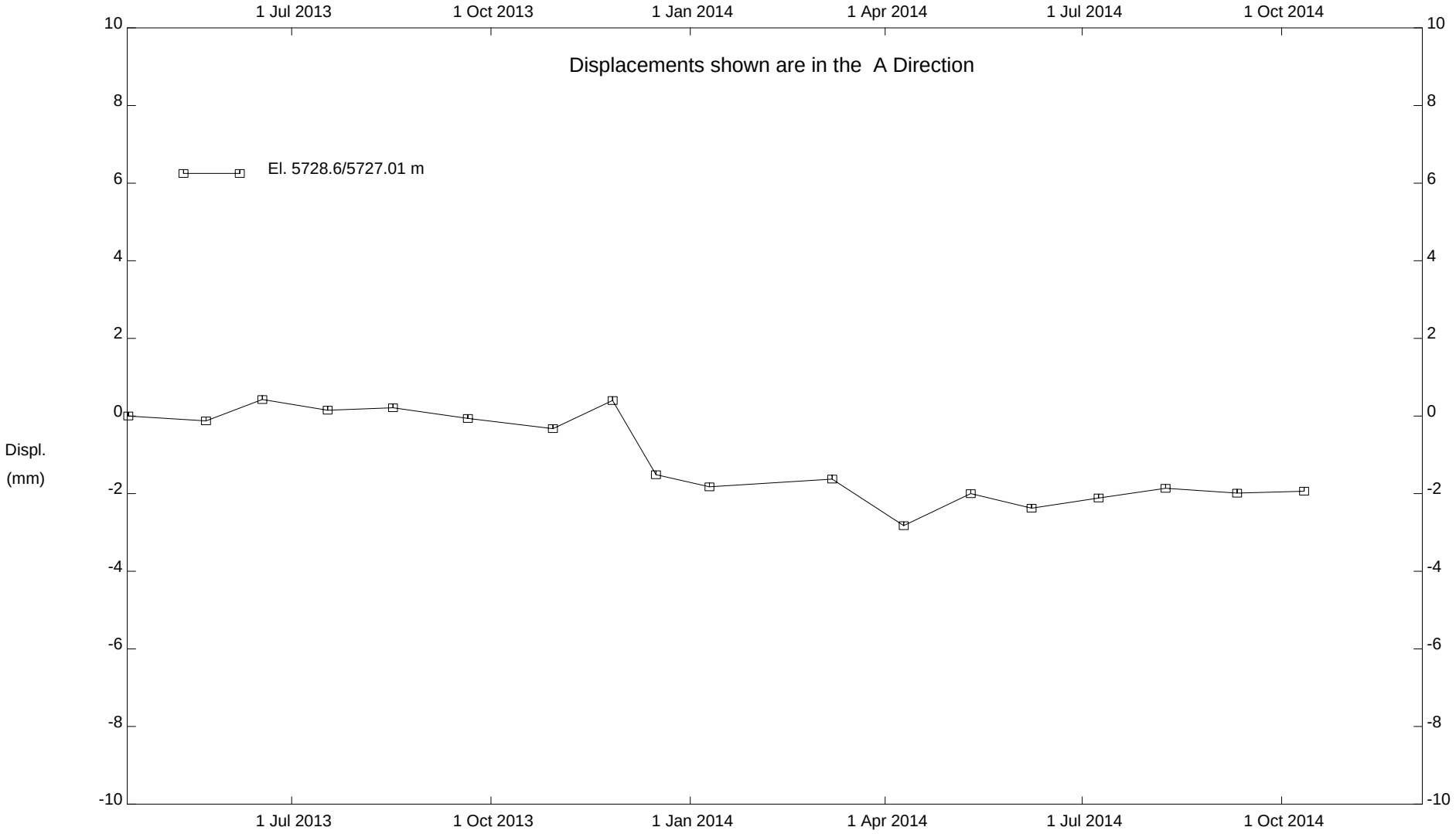


New Afton - Pothook, Inclinometer Borehole 6

New Gold Inc.

Positive A direction faces upstream, Positive B faces left abutment

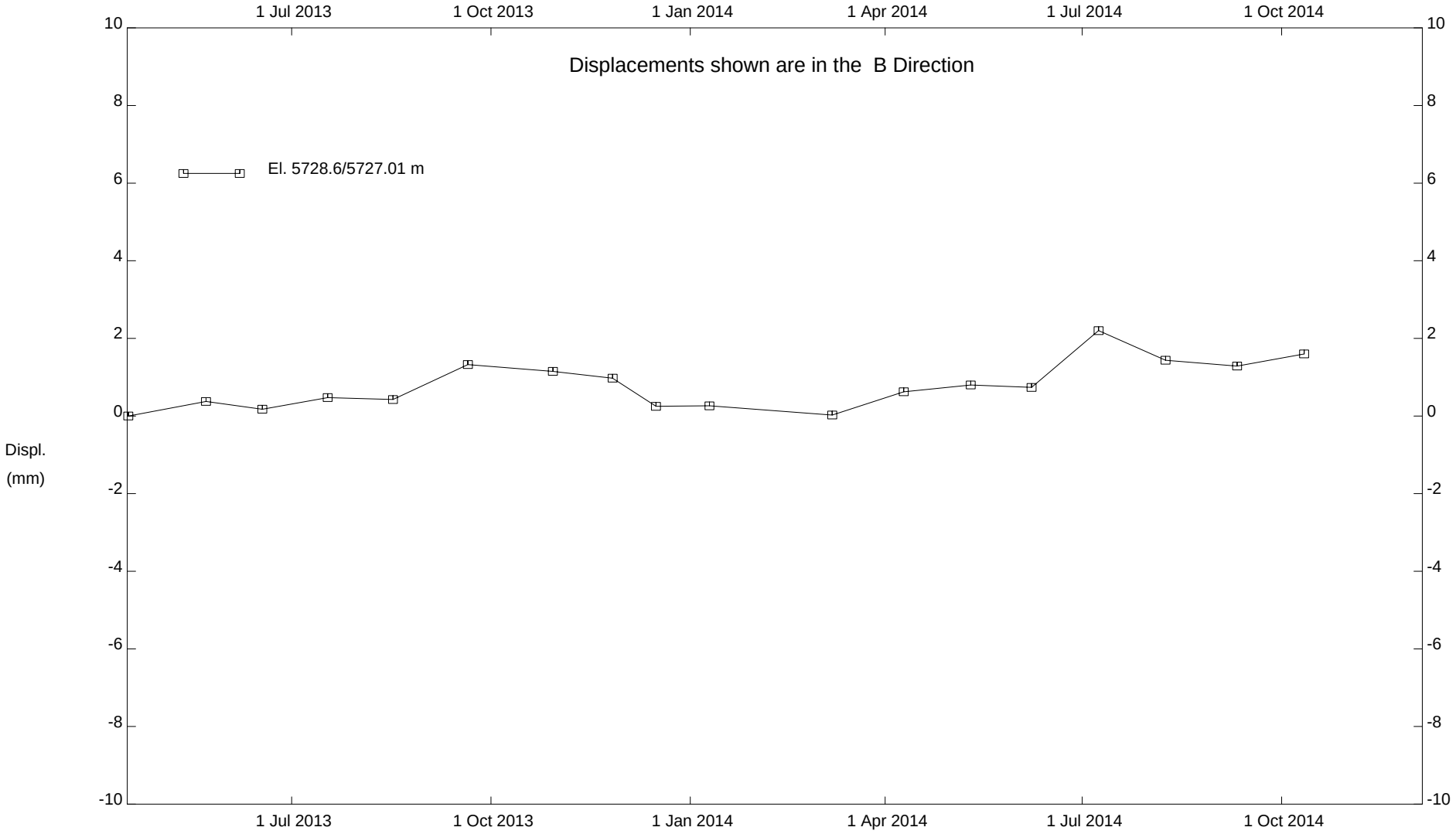
BGC Engineering Inc.



New Afton - Pothook, Inclinometer Borehole 6

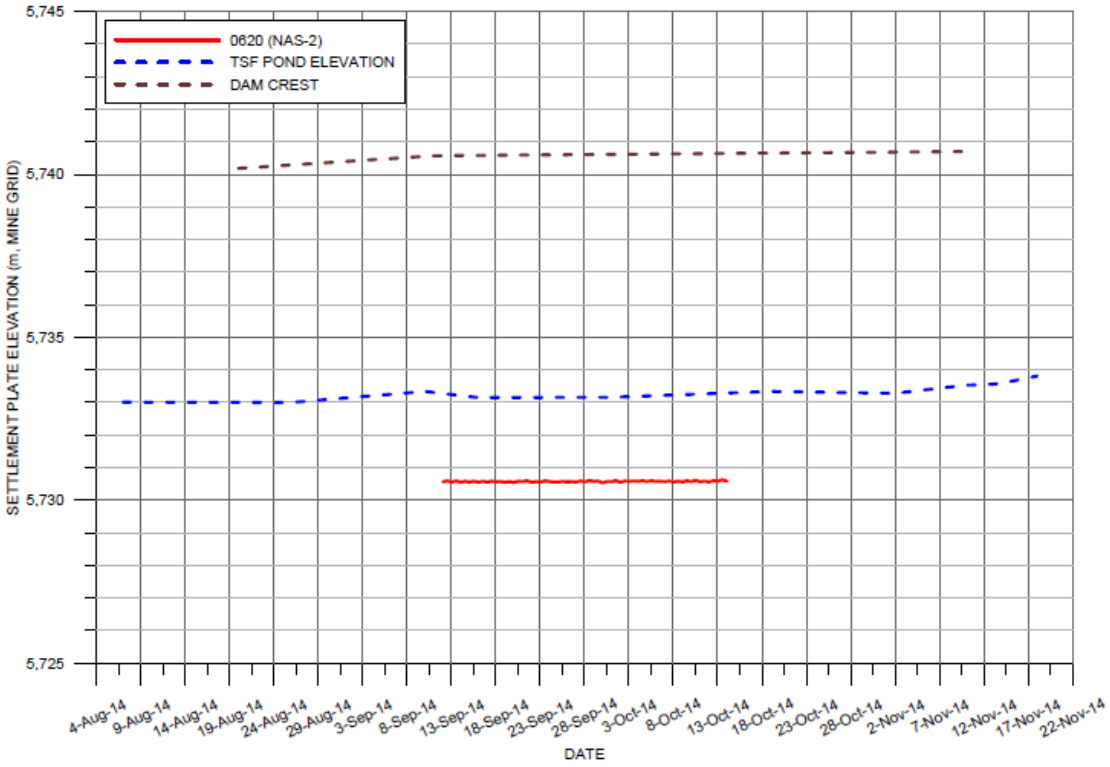
New Gold Inc.

BGC Engineering Inc.

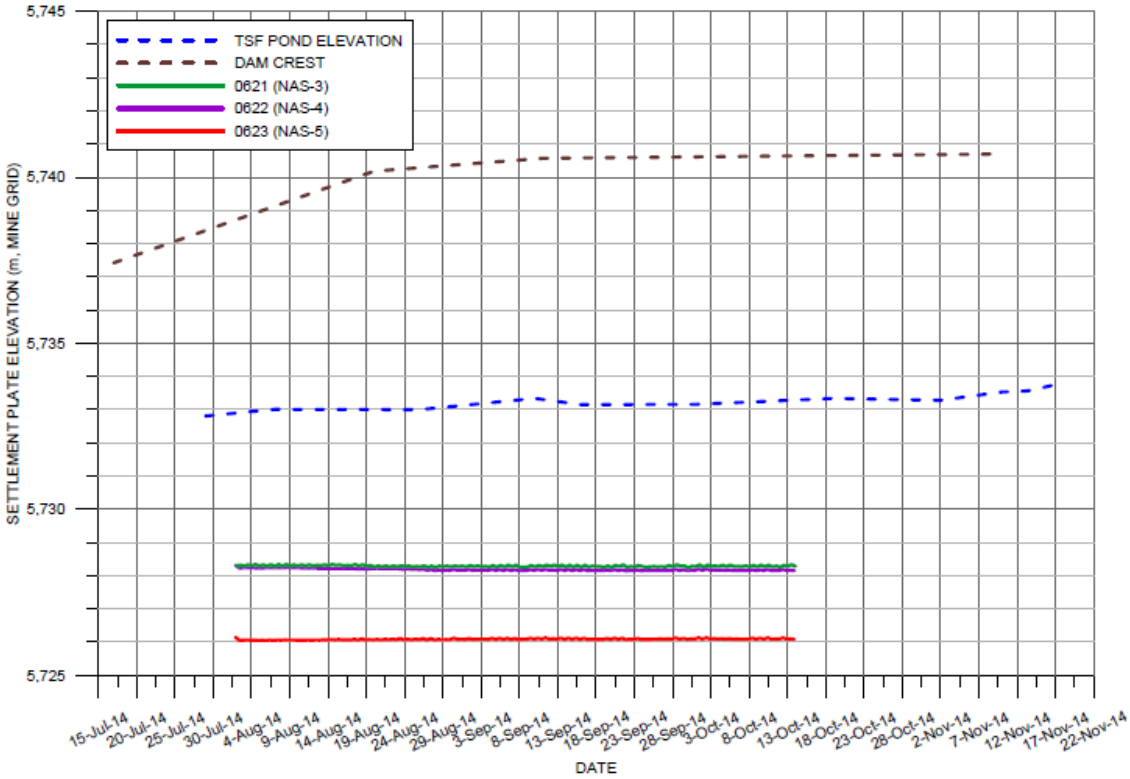


New Afton - Pothook, Inclinometer Borehole 6

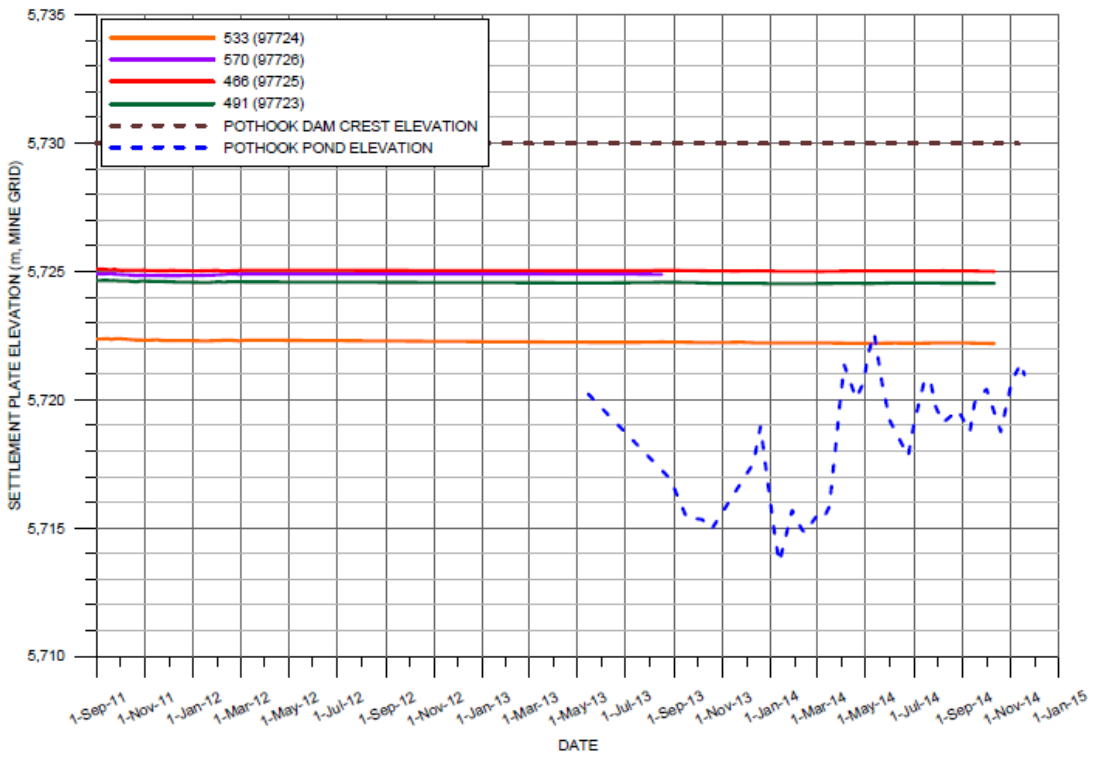
New Gold Inc.



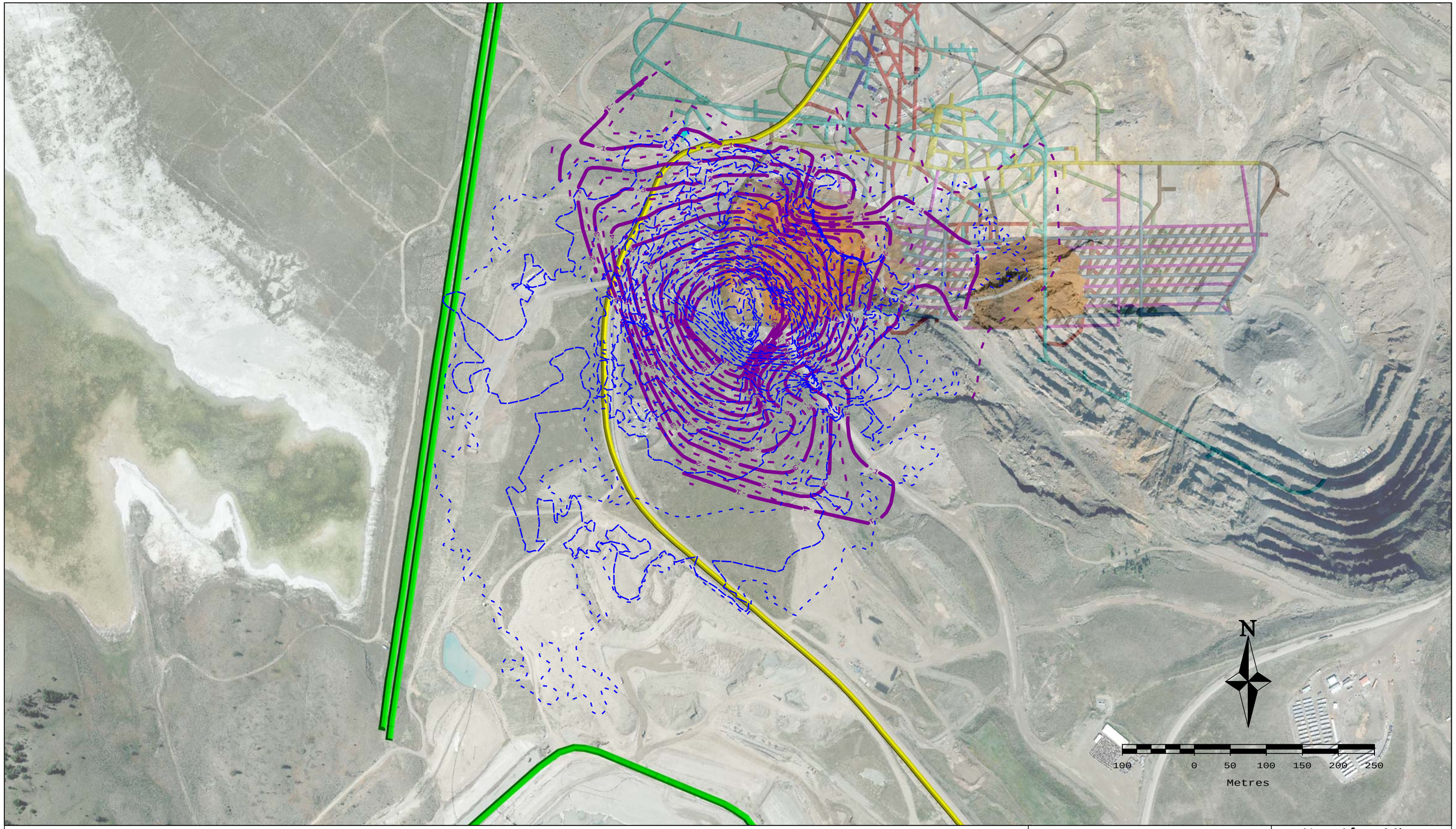
Vibrating Wire Settlement Plate installed at Dam B



Vibrating Wire Settlement Plates installed at Dam C



Vibrating Wire Settlement Plates installed at Pothook Dam



Subsidence Sept 2014

New Afton Mine

newgold New Afton Mine Kamloops, B.C.

Filename	Author	Scale	Date
	C.Kamp	1:5000	04-Oct-2014

APPENDIX D
DRAWINGS

ULTIMATE DAM CONSTRUCTION POINTS					
POINT #	STATION (m)	UTM NAD 83 ZONE 10 (m)		MINE GRID (m)	
		EASTING (m)	NORTHING (m)	EASTING (m)	NORTHING (m)
UD-1	0+000	676671.5	5613833.8	3643.3	449.0
UD-2	0+281	676456.0	5614014.2	3642.9	730.1
UD-3	0+942	675795.4	5614042.0	3239.7	1254.1
UD-4	1+209	675572.1	5613896.1	2984.3	1331.4
UD-5	2+200	675607.4	5612906.0	2248.4	667.9

NOVEMBER 2013/ JANUARY 2014 SURVEY AND JULY 2013 LIDAR BOUNDARY

JULY 2013 LIDAR AND 2008 SURVEY BOUNDARY

SEEPAGE POND 1

SEEPAGE POND 2

SEEPAGE POND 3

SEE NOTE 8

2014 FILL LIMIT

FEBRUARY 2014 AND NOVEMBER 2013/ JANUARY 2014 SURVEY BOUNDARY

SEE SECTION DETAIL

DAM A (1+580 TO 2+200)

DAM B (1+200 TO 1+580)

DAM C (0+000 TO 1+200)

WEST DAM

SOUTH DAM

POTHOOK DAM

POTHOOK PIT

WATER RECLAIM POND

WASTE ROCK BOUNDARY (SEE NOTE 5)

LLDPE GEOMEMBRANE LINER (SEE NOTE 6)

DAM REFERENCE LINE

UD-1 UD-2 UD-3 UD-4 UD-5

US1A US1B US2A US2B US3A US3B US4A US4B US5A US5B US6A US6B US7A US7B US8A US8B US9A US9B US10A US10B US11A US11B

DS1A DS1B DS2A DS2B DS3A DS3B DS4A DS4B DS5A DS5B DS6A DS6B DS7A DS7B DS8A DS8B DS9A DS9B DS10A DS10B DS11A DS11B

3H:1V

SCALE 1:6,000

100 0 100 200 300

METRES

THIS DRAWING MAY HAVE BEEN REDUCED OR ENLARGED. ALL SCALE NOTATIONS INDICATED ARE BASED ON ORIGINAL FORMAT DRAWINGS.

LEGEND

- STATION MARKER
- UD-1 CONSTRUCTION POINT
- US1A TYPICAL UPSTREAM CELL ID
- DS1A TYPICAL DOWNSTREAM CELL ID
- TYPICAL CYCLONE SAND CELL
- SURVEY BOUNDARY
- SEEPAGE POND
- DAM REFERENCE LINE
- WASTE ROCK BOUNDARY
- LLDPE GEOMEMBRANE LINER

NOTES:

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3. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
4. EXISTING GROUND SURFACE TAKEN FROM FOUNDATION PREPARATION SURVEY DATED NOVEMBER 25, 2013, 2013 CONSTRUCTION RECORDS SURVEY DATED JANUARY 1, 2014, UPSTREAM CYCLONE SAND SURVEY DATED FEBRUARY 13, 2014, ALL PROVIDED BY NEW GOLD INC. JULY 2013 LIDAR PROVIDED BY CHALLENGER GEOMATICS LTD., AND 2008 SURVEY PROVIDED BY ACRES ENTERPRISES. CONTOUR INTERVAL IS 1.0 M.
5. WASTE ROCK BOUNDARY TAKEN FROM OCTOBER 2008 DESIGN REPORT UPDATE BY VECTOR ENGINEERING INC.
6. LLDPE GEOMEMBRANE LINER BOUNDARY TAKEN FROM FEBRUARY 20, 2012 SURVEY PROVIDED BY ACRES ENTERPRISES LTD.
7. TYPICAL SAND CELL DIMENSIONS ARE APPROXIMATELY 75.0 M IN LENGTH AND 30.0 M IN WIDTH, AND WILL BE FIELD FIT. THE DIMENSION OF CYCLONE SAND CELL US4B AND US6A WILL VARY, AS DIRECTED BY THE ENGINEER.
8. UPSTREAM CYCLONE SAND AND TILL TRANSITION OCCURS AT STATION 0+553 M AND STATION 1+209 M, AS DIRECTED BY THE ENGINEER.
9. UNLESS BGC AGREES OTHERWISE IN WRITING, THIS DRAWING SHALL NOT BE MODIFIED OR USED FOR ANY PURPOSE OTHER THAN THE PURPOSE FOR WHICH BGC GENERATED IT. BGC SHALL HAVE NO LIABILITY FOR ANY DAMAGES OR LOSS ARISING IN ANY WAY FROM ANY USE OR MODIFICATION OF THIS DOCUMENT NOT AUTHORIZED BY BGC. ANY USE OF OR RELIANCE UPON THIS DOCUMENT OR ITS CONTENT BY THIRD PARTIES SHALL BE AT SUCH THIRD PARTIES' SOLE RISK.

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CHECKED:	CL
APPROVED:	CL

BGC ENGINEERING INC. AN APPLIED EARTH SCIENCES COMPANY

CLIENT: NEW GOLD INC.

PROJECT: 2014 ANNUAL INSPECTION TAILINGS STORAGE FACILITY

TITLE: TSF 2014 RAISE - GENERAL ARRANGEMENT

PROJECT N□.: 0921-011

DWG N□.: NA-RB-03-24

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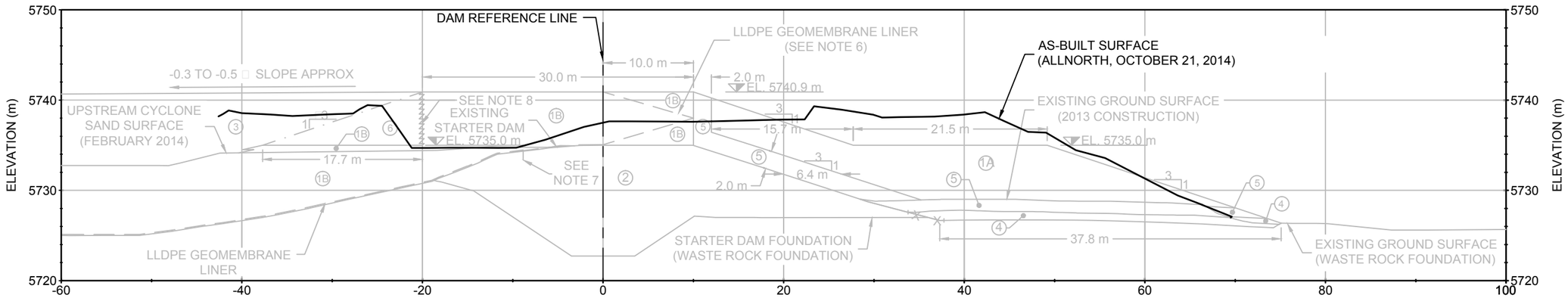
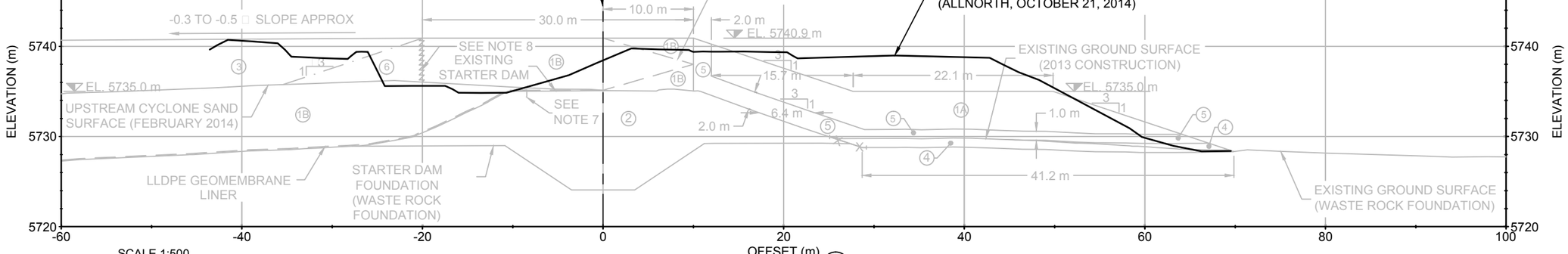
SOUTH UTM NAD 83 ZONE 10 (E: 676,166, N: 5,613,966)
SOUTHWEST MINE GRID (E: 3,420, N: 921)
UPSTREAM

NORTH UTM NAD 83 ZONE 10 (E: 676,173, N: 5,614,126)
NORTHEAST MINE GRID (E: 3,547, N: 1,019)
DOWNSTREAM



SOUTH UTM NAD 83 ZONE 10 (E: 675,935, N: 5,613,976)
SOUTHWEST MINE GRID (E: 3,279, N: 1,105)
UPSTREAM

NORTH UTM NAD 83 ZONE 10 (E: 675,942, N: 5,614,136)
NORTHEAST MINE GRID (E: 3,406, N: 1,202)
DOWNSTREAM



THIS DRAWING MAY HAVE BEEN REDUCED OR ENLARGED. ALL SCALE NOTATIONS INDICATED ARE BASED ON ORIGINAL FORMAT DRAWINGS.

LEGEND

- 1A DOWNSTREAM CYCLONE SAND[4]
- 1B UPSTREAM CYCLONE SAND[4]
- 2 TILL
- 3 WHOLE TAILINGS
- 4 COARSE FILTER
- 5 FINE FILTER
- 6 MIXED ZONE: CYCLONE SAND AND WHOLE TAILINGS
- APPROXIMATE EXTENT OF MIXED ZONE
- LLDPE GEOMEMBRANE LINER
- DAM REFERENCE LINE
- GEOTEXTILE

NOTES:

1. THIS DRAWING MUST BE READ IN CONJUNCTION WITH BGC'S REPORT TITLED "2014 ANNUAL INSPECTION TAILINGS STORAGE FACILITY," AND DATED NOVEMBER 2014.
2. ALL COORDINATES ARE PROVIDED IN BOTH UTM NAD 83 ZONE 10 GRID AND MINE GRID COORDINATE SYSTEM. ELEVATIONS ARE PROVIDED IN MINE GRID COORDINATE SYSTEM ONLY.
3. EXISTING GROUND SURFACE TAKEN FROM FOUNDATION PREPARATION SURVEY DATED NOVEMBER 25, 2013, 2013 CONSTRUCTION RECORDS SURVEY DATED JANUARY 1, 2014 AND UPSTREAM CYCLONE SAND SURVEY DATED FEBRUARY 13, 2014, ALL PROVIDED BY NEW GOLD INC. STARTER DAM FOUNDATION SURVEY TAKEN FROM 2008 SURVEY AND STARTER DAM CONSTRUCTION RECORDS SURVEY DATED JANUARY 8, 2012, BOTH PROVIDED BY ACRES ENTERPRISES LTD.
4. HYDRAULICALLY PLACED MATERIAL 1A AND 1B WILL BE CONSTRUCTED BY THE OWNER. MECHANICALLY PLACED MATERIAL 1A AND 1B WILL BE CONSTRUCTED BY THE CONTRACTOR.
5. DOWNSTREAM COARSE FILTER AND FINE FILTER BLANKETS ARE MEASURED NORMAL TO THE APPROVED FOUNDATION SURFACE. A MINIMUM THICKNESS OF 1.0 m OF COARSE FILTER IS REQUIRED OVER WASTE ROCK FOUNDATION.
6. FOR THE PURPOSE OF THIS DRAWING THE LLDPE GEOMEMBRANE LINER HAS BEEN SIMPLIFIED AND WILL BE CONSTRUCTED PER THE TECHNICAL SPECIFICATIONS AND DESIGNS PROVIDED ON DRAWING NA-XD-03-19 DETAIL 7.
7. GEOMEMBRANE ANCHOR TRENCH LOCATION IS DETERMINED FROM GEOMEMBRANE LINER BOUNDARY TAKEN FROM FEBRUARY 20, 2012 SURVEY PROVIDED BY ACRES ENTERPRISES LTD.
8. MATERIAL BOUNDARIES BETWEEN UNITS 1B AND 6 ARE SHOWN SCHEMATICALLY AND WILL BE FIELD FIT, AS DIRECTED BY THE ENGINEER.
9. AS-BUILT SURFACE PROVIDED BY ALLNORTH LAND SURVEYORS, AND DATED OCTOBER 21, 2014.
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DATE:	NOV 2014
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CHECKED:	CL
APPROVED:	CL

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

CLIENT: NEW GOLD INC.

PROJECT: 2014 ANNUAL INSPECTION TAILINGS STORAGE FACILITY

TITLE: TSF 2014 RAISE - CROSS-SECTIONS 0+569 AND 0+800

PROJECT NO.: 0921-011

DWG NO.: NA-RB-03-25

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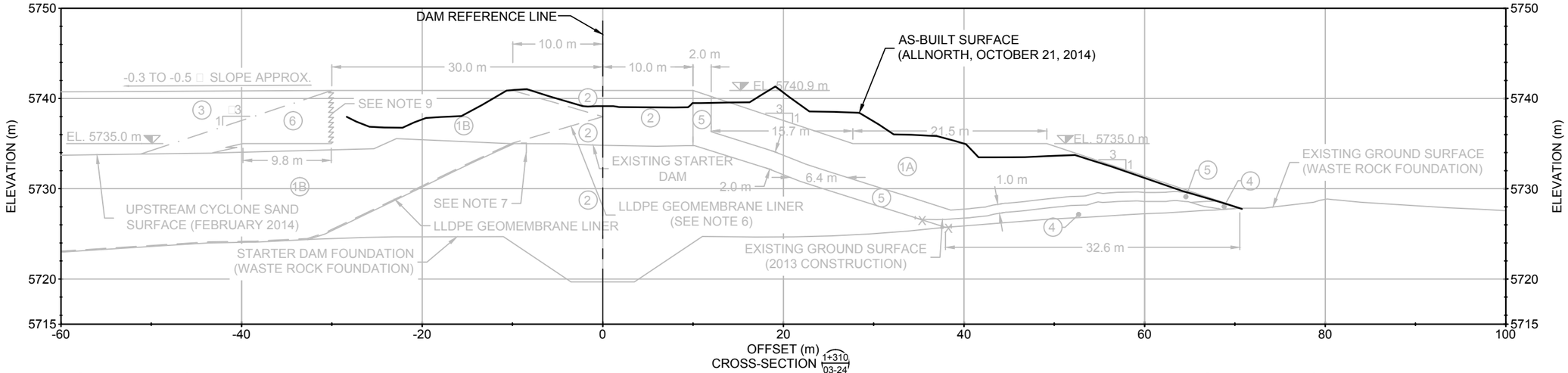
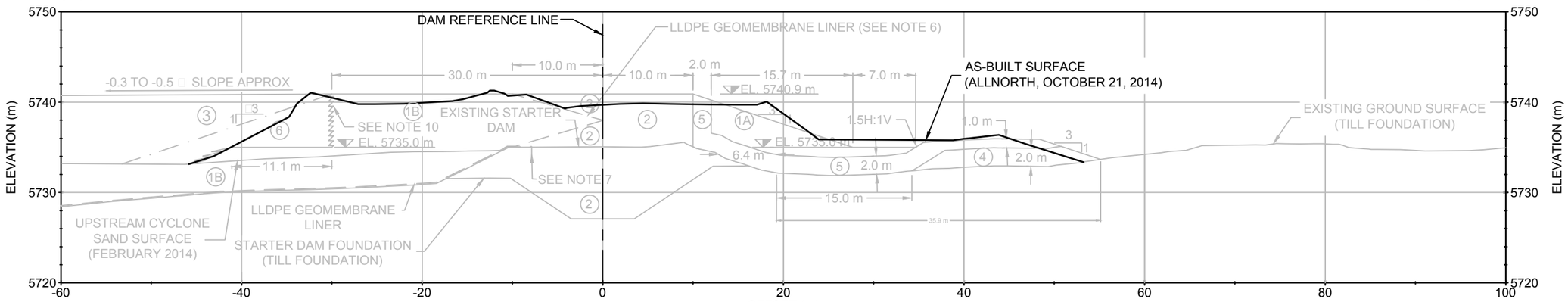
EAST UTM NAD 83 ZONE 10 (E: 675,636, N: 5,613,798)
SOUTHEAST MINE GRID (E: 2,950, N: 1,219)
UPSTREAM

WEST UTM NAD 83 ZONE 10 (E: 675,476, N: 5,613,792)
NORTHWEST MINE GRID (E: 2,842, N: 1,338)
DOWNSTREAM



EAST UTM NAD 83 ZONE 10 (E: 675,639, N: 5,613,688)
SOUTHEAST MINE GRID (E: 2,868, N: 1,146)
UPSTREAM

WEST UTM NAD 83 ZONE 10 (E: 675,480, N: 5,613,682)
NORTHWEST MINE GRID (E: 2,760, N: 1,264)
DOWNSTREAM



LEGEND

- 1A — DOWNSTREAM CYCLONE SAND[4]
- 1B — UPSTREAM CYCLONE SAND[4]
- 2 — TILL
- 3 — WHOLE TAILINGS
- 4 — COARSE FILTER
- 5 — FINE FILTER
- 6 — MIXED ZONE: CYCLONE SAND AND WHOLE TAILINGS
- APPROXIMATE EXTENT OF MIXED ZONE
- LLDPE GEOMEMBRANE LINER
- DAM REFERENCE LINE
- GEOTEXTILE

NOTES:

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4. HYDRAULICALLY PLACED MATERIAL 1A AND 1B WILL BE CONSTRUCTED BY THE OWNER. MECHANICALLY PLACED MATERIAL 1A AND 1B WILL BE CONSTRUCTED BY THE CONTRACTOR.
5. DOWNSTREAM COARSE FILTER AND FINE FILTER BLANKETS ARE MEASURED NORMAL TO THE APPROVED FOUNDATION SURFACE. A MINIMUM THICKNESS OF 1.0 M OF COARSE FILTER IS RE□UIRED OVER WASTE ROCK FOUNDATION.
6. FOR THE PURPOSE OF THIS DRAWING THE LLDPE GEOMEMBRANE LINER HAS BEEN SIMPLIFIED AND WILL BE CONSTRUCTED PER THE TECHNICAL SPECIFICATIONS AND DESIGNS PROVIDED ON DRAWING NA-XD-03-19 DETAIL 8 AND DETAIL 9.
7. GEOMEMBRANE LINER ANCHOR TRENCH LOCATION IS DETERMINED FROM GEOMEMBRANE LINER BOUNDARY TAKEN FROM FEBRUARY 20, 2012 SURVEY, PROVIDED BY ACRES ENTERPRISES LTD.
8. DEPTH OF FOUNDATION PREPARATION AS APPROVED BY THE ENGINEER BASED ON FOUNDATION CONDITIONS. SEE DRAWING NA-XD-03-22 FOR FOUNDATION PREPARATION DETAILS.
9. MATERIAL BOUNDARIES BETWEEN UNITS 1B AND 6 ARE SHOWN SCHEMATICALLY AND WILL BE FIELD FIT, AS DIRECTED BY THE ENGINEER.
10. AS-BUILT SURFACE PROVIDED BY ALLNORTH LAND SURVEYORS, AND DATED OCTOBER 21, 2014.
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PROJECT: 2014 ANNUAL INSPECTION TAILINGS STORAGE FACILITY

TITLE: TSF 2014 RAISE - CROSS-SECTIONS 1+310 AND 1+420

PROJECT N□: 0921-011

DWG N□: NA-RB-03-26

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EAST UTM NAD 83 ZONE 10 (E: 675,651, N: 5,613,361)
SOUTHEAST MINE GRID (E: 2,625, N: 927)
UPSTREAM

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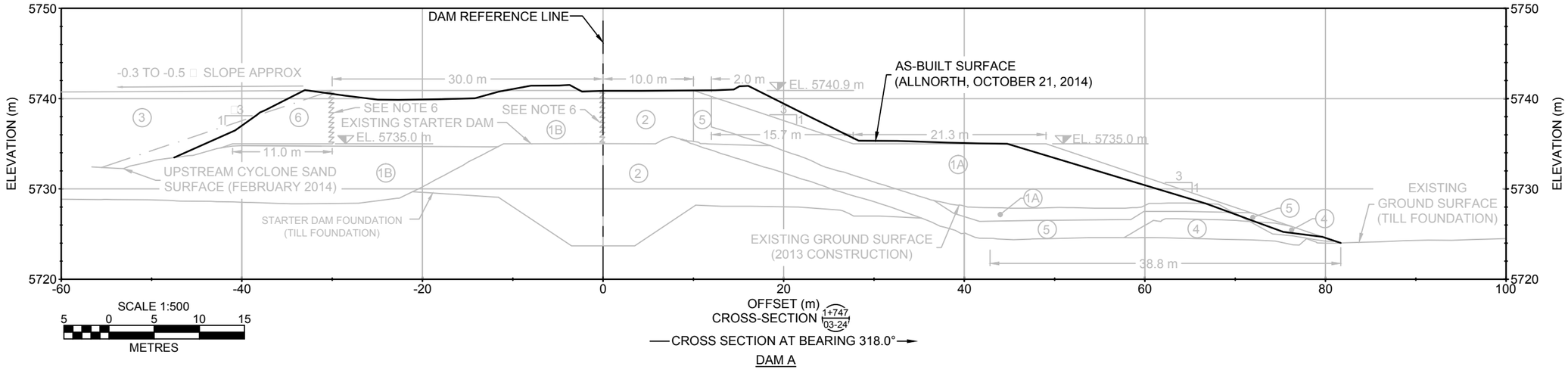

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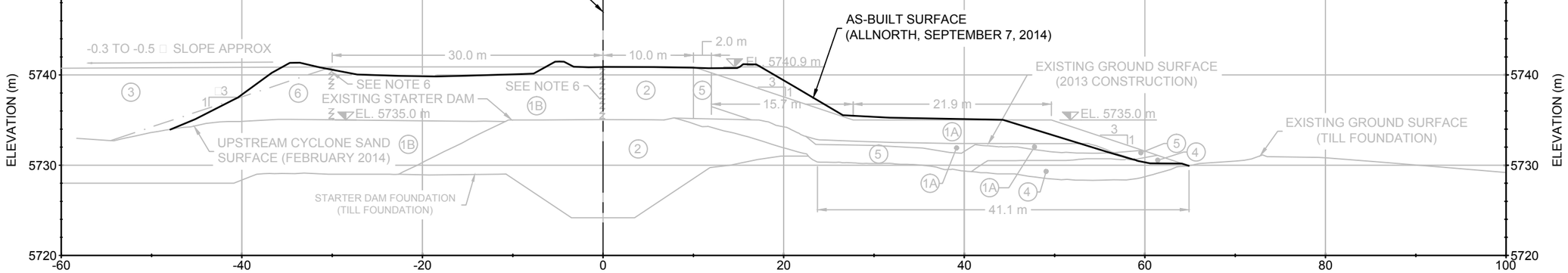
5 0 5 10 15
METRES

DAM A

EAST UTM NAD 83 ZONE 10 (E: 675,654, N: 5,613,288)
SOUTHEAST MINE GRID (E: 2,571, N: 878)
UPSTREAM

WEST UTM NAD 83 ZONE 10 (E: 675,494, N: 5,613,282)
NORTHWEST MINE GRID (E: 2,557, N: 893)
DOWNSTREAM



SCALE 1:500
5 0 5 10 15
METRES

DAM A

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ORIGINAL FORMAT DRAWINGS.

LEGEND

- 1A DOWNSTREAM CYCLONE SAND[4]
- 1B UPSTREAM CYCLONE SAND[4]
- 2 TILL
- 3 WHOLE TAILINGS
- 4 COARSE FILTER
- 5 FINE FILTER
- 6 MIXED ZONE: CYCLONE SAND AND WHOLE TAILINGS
- APPROXIMATE EXTENT OF MIXED ZONE
- LLDPE GEOMEMBRANE LINER
- DAM REFERENCE LINE

NOTES:

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4. HYDRAULICALLY PLACED MATERIAL 1A AND 1B WILL BE CONSTRUCTED BY THE OWNER. MECHANICALLY PLACED MATERIAL 1A AND 1B WILL BE CONSTRUCTED BY THE CONTRACTOR.
5. DOWNSTREAM COARSE FILTER AND FINE FILTER BLANKETS ARE MEASURED NORMAL TO THE APPROVED FOUNDATION SURFACE. A MINIMUM THICKNESS OF 2.0 M OF FINE FILTER OR 2.0 M OF COARSE FILTER IS REQUIRED OVER TILL FOUNDATION.
6. MATERIAL BOUNDARIES BETWEEN UNITS 1B AND 2, AND BETWEEN UNITS 1B AND 6 ARE SHOWN SCHEMATICALLY AND WILL BE FIELD FIT, AS DIRECTED BY THE ENGINEER.
7. AS-BUILT SURFACE PROVIDED BY ALLNORTH LAND SURVEYORS, AND DATED OCTOBER 21, 2014.
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APPROVED:	CL

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CLIENT: NEW GOLD INC.

PROJECT: 2014 ANNUAL INSPECTION TAILINGS STORAGE FACILITY

TITLE: TSF 2014 RAISE - CROSS-SECTIONS 1+747 AND 1+820

PROJECT NO: 0921-011

DWG NO: NA-RB-03-27

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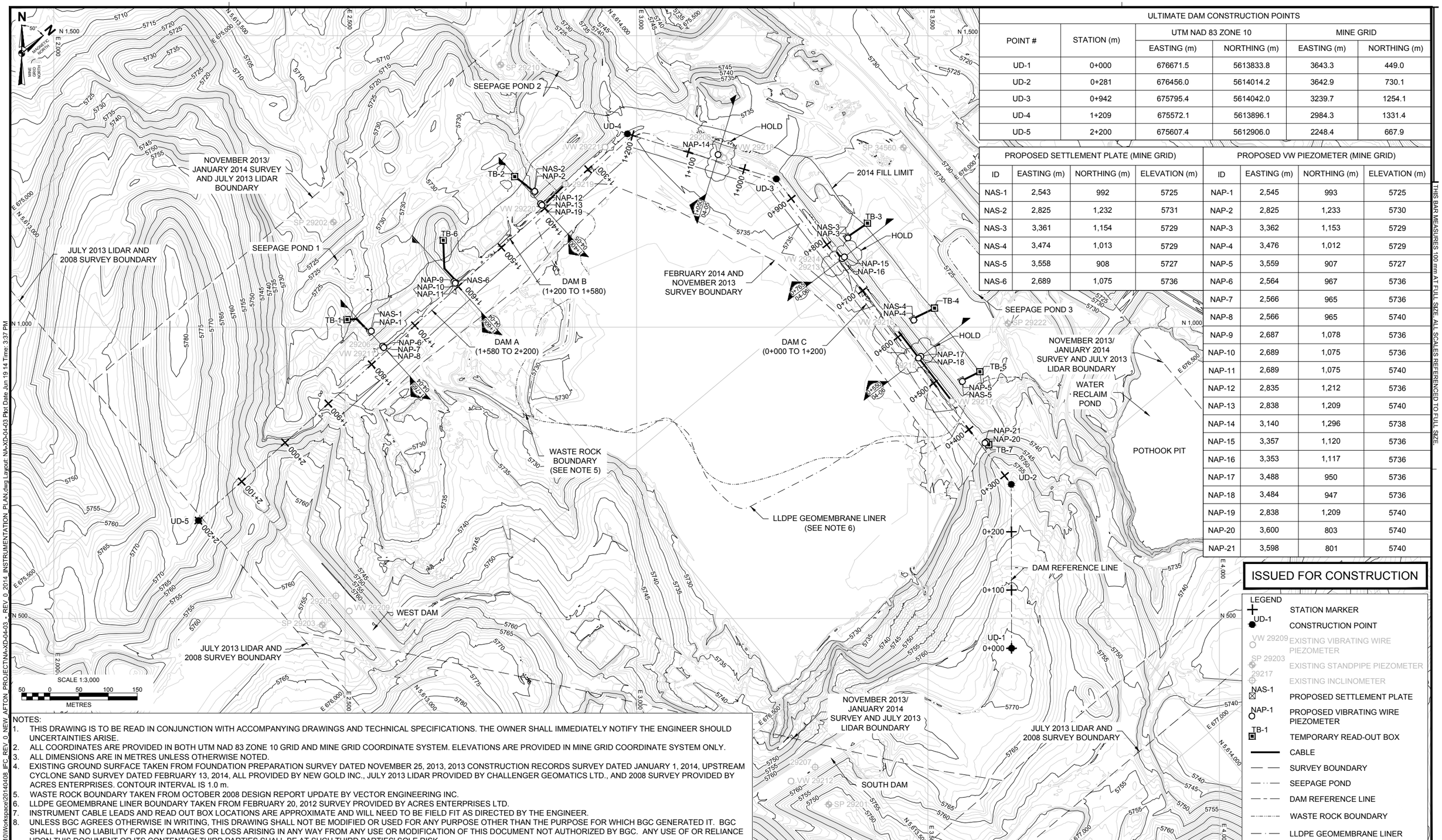

ULTIMATE DAM CONSTRUCTION POINTS					
POINT #	STATION (m)	UTM NAD 83 ZONE 10		MINE GRID	
		EASTING (m)	NORTHING (m)	EASTING (m)	NORTHING (m)
UD-1	0+000	676671.5	5613833.8	3643.3	449.0
UD-2	0+281	676456.0	5614014.2	3642.9	730.1
UD-3	0+942	675795.4	5614042.0	3239.7	1254.1
UD-4	1+209	675572.1	5613896.1	2984.3	1331.4
UD-5	2+200	675607.4	5612906.0	2248.4	667.9

PROPOSED SETTLEMENT PLATE (MINE GRID)				PROPOSED VW PIEZOMETER (MINE GRID)			
ID	EASTING (m)	NORTHING (m)	ELEVATION (m)	ID	EASTING (m)	NORTHING (m)	ELEVATION (m)
NAS-1	2,543	992	5725	NAP-1	2,545	993	5725
NAS-2	2,825	1,232	5731	NAP-2	2,825	1,233	5730
NAS-3	3,361	1,154	5729	NAP-3	3,362	1,153	5729
NAS-4	3,474	1,013	5729	NAP-4	3,476	1,012	5729
NAS-5	3,558	908	5727	NAP-5	3,559	907	5727
NAS-6	2,689	1,075	5736	NAP-6	2,564	967	5736
				NAP-7	2,566	965	5736
				NAP-8	2,566	965	5740
				NAP-9	2,687	1,078	5736
				NAP-10	2,689	1,075	5736
				NAP-11	2,689	1,075	5740
				NAP-12	2,835	1,212	5736
				NAP-13	2,838	1,209	5740
				NAP-14	3,140	1,296	5738
				NAP-15	3,357	1,120	5736
				NAP-16	3,353	1,117	5736
				NAP-17	3,488	950	5736
				NAP-18	3,484	947	5736
				NAP-19	2,838	1,209	5740
				NAP-20	3,600	803	5740
				NAP-21	3,598	801	5740

THIS BAR MEASURES 100 mm AT FULL SIZE. ALL SCALES REFERENCED TO FULL SIZE.

ISSUED FOR CONSTRUCTION

LEGEND
- STATION MARKER
- UD-1 CONSTRUCTION POINT
- VW 29209 EXISTING VIBRATING WIRE PIEZOMETER
- SP 29203 EXISTING STANDPIPE PIEZOMETER
- 29217 EXISTING INCLINOMETER
- NAS-1 PROPOSED SETTLEMENT PLATE
- NAP-1 PROPOSED VIBRATING WIRE PIEZOMETER
- TB-1 TEMPORARY READ-OUT BOX
- CABLE
- SURVEY BOUNDARY
- SEEPAGE POND
- DAM REFERENCE LINE
- WASTE ROCK BOUNDARY
- LLDPE GEOMEMBRANE LINER

NOTES:
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ACCOMPANYING DRAWINGS AND TECHNICAL SPECIFICATIONS. THE OWNER SHALL IMMEDIATELY NOTIFY THE ENGINEER SHOULD UNCERTAINTIES ARISE.
2. ALL COORDINATES ARE PROVIDED IN BOTH UTM NAD 83 ZONE 10 GRID AND MINE GRID COORDINATE SYSTEM. ELEVATIONS ARE PROVIDED IN MINE GRID COORDINATE SYSTEM ONLY.
3. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
4. EXISTING GROUND SURFACE TAKEN FROM FOUNDATION PREPARATION SURVEY DATED NOVEMBER 25, 2013, 2013 CONSTRUCTION RECORDS SURVEY DATED JANUARY 1, 2014, UPSTREAM CYCLONE SAND SURVEY DATED FEBRUARY 13, 2014, ALL PROVIDED BY NEW GOLD INC., JULY 2013 LIDAR PROVIDED BY CHALLENGER GEOMATICS LTD., AND 2008 SURVEY PROVIDED BY ACRES ENTERPRISES. CONTOUR INTERVAL IS 1.0 m.
5. WASTE ROCK BOUNDARY TAKEN FROM OCTOBER 2008 DESIGN REPORT UPDATE BY VECTOR ENGINEERING INC.
6. LLDPE GEOMEMBRANE LINER BOUNDARY TAKEN FROM FEBRUARY 20, 2012 SURVEY PROVIDED BY ACRES ENTERPRISES LTD.
7. INSTRUMENT CABLE LEADS AND READ OUT BOX LOCATIONS ARE APPROXIMATE AND WILL NEED TO BE FIELD FIT AS DIRECTED BY THE ENGINEER.
8. UNLESS BGC AGREES OTHERWISE IN WRITING, THIS DRAWING SHALL NOT BE MODIFIED OR USED FOR ANY PURPOSE OTHER THAN THE PURPOSE FOR WHICH BGC GENERATED IT. BGC SHALL HAVE NO LIABILITY FOR ANY DAMAGES OR LOSS ARISING IN ANY WAY FROM ANY USE OR MODIFICATION OF THIS DOCUMENT NOT AUTHORIZED BY BGC. ANY USE OF OR RELIANCE UPON THIS DOCUMENT OR ITS CONTENT BY THIRD PARTIES SHALL BE AT SUCH THIRD PARTIES' SOLE RISK.

REVISION INFORMATION

REV. NO.	YY	MM	DD	DRAWN	DESIGN	CHECK	APPROVED	REVISION / ISSUED DESCRIPTIONS
0	14	06	19	AH	AR	CL	CL	ISSUED FOR CONSTRUCTION

REV. NO.	YY	MM	DD	DRAWN	DESIGN	CHECK	APPROVED	REVISION / ISSUED DESCRIPTIONS

DRAWN BY: AH	CHECK DRAWING: LS\GCB	BGC ENGINEERING INC. AN APPLIED EARTH SCIENCES COMPANY	PROJECT: NEW AFTON PROJECT
DESIGN BY: AR	CHECK DESIGN: CL		TITLE: 2014 INSTRUMENTATION PLAN
LEAD ENGINEER: CL	APPROVAL DATE: JUNE 19, 2014	CLIENT: NEW GOLD INC.	SCALE: 1:3,000 / DWG NO.: NA-XD-04-03 / REV.: 0
PROJECT MANAGER: CL	APPROVAL DATE: JUNE 19, 2014		

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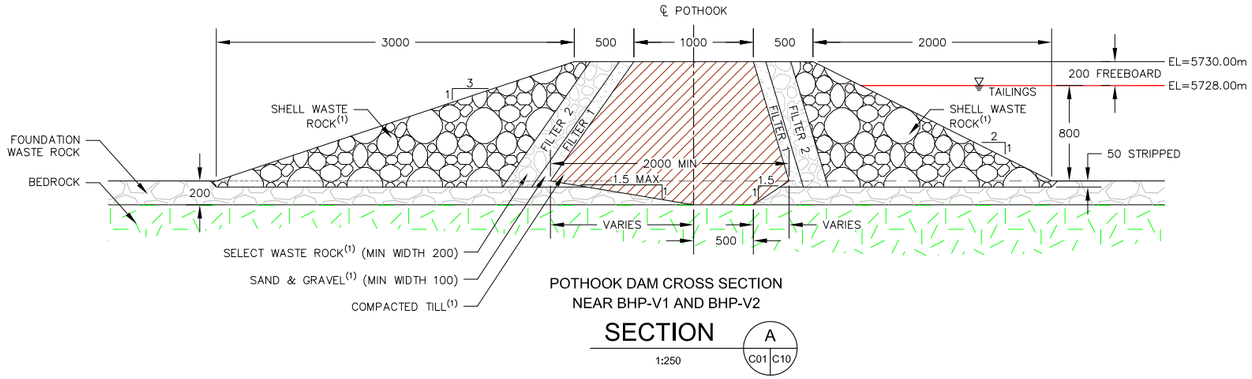
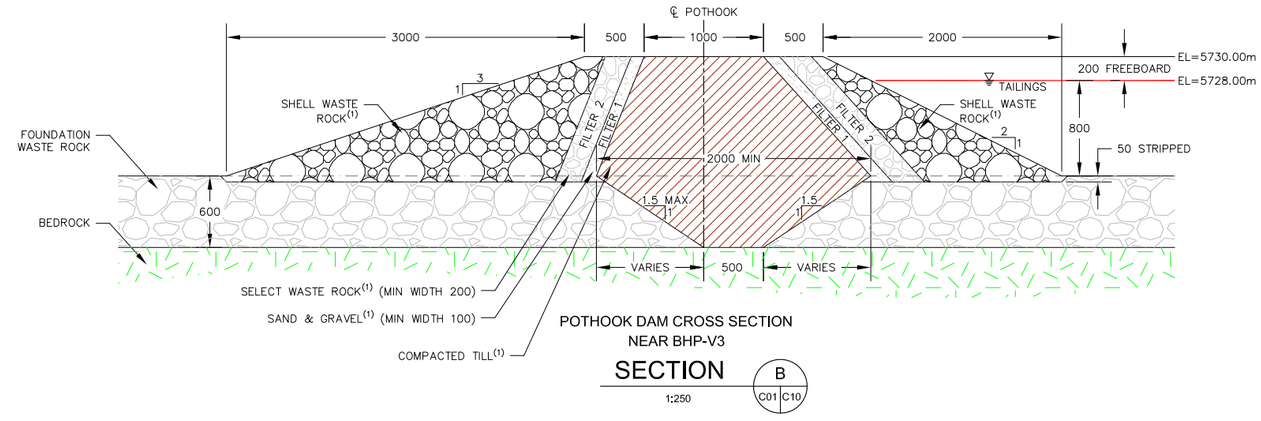


POTHOOK DAM CROSS SECTION
NEAR BHP-V1 AND BHP-V2

SECTION A

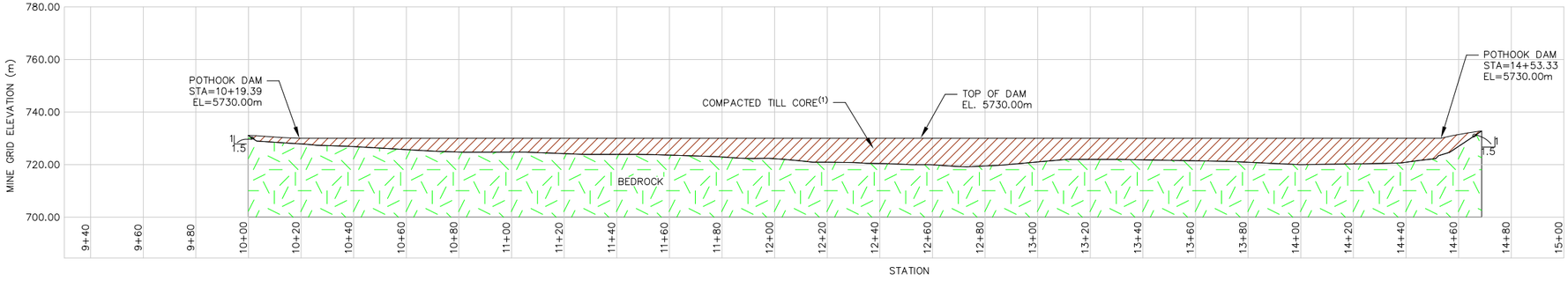
1:250



POTHOOK DAM CROSS SECTION
NEAR BHP-V3

SECTION B

1:250



PROFILE A-A'

HORIZ = 1:1000
VERT = 1:1000

FILL MATERIAL SPECIFICATIONS FOR POTHOOK, WEST AND SOUTH DAMS

SIEVE SIZE		% PASSING			
SI (mm)	US STANDARD	WASTE ROCK (DAM SHELL)	COMPACTED TILL (KEYWAY & CORE)	FILTER 1 (ADJACENT TO CORE)	FILTER 2 (ADJACENT TO FILTER 2)
150	6 in	100	100	100	100
75	3 in	75–100	100	100	100
19	3/4 in	30–65	80–100	90–100	50–100
9.53	3/8 in	20–50	75–100	80–100	25–100
4.75	#4	5–40	70–100	70–100	5–60
0.45	#40	≤20	55–90	10–55	<10
0.075	#200	≤10	40–85	≤5	≤5
PLASTIC INDEX		<15	>20	NON-PLASTIC	NON-PLASTIC
REMOLDED PERMEABILITY (cm/s)		$>4x10^{-4}$	$<4x10^{-6}$	>25 x TILL PERMEABILITY	

1. KEYWAYS AND CORES SHALL BE CONSTRUCTED USING SELECT GLACIAL TILL MATERIAL WHICH HAS BEEN STOCKPILED AND APPROVED BY ENGINEER AND OWNER.
2. COMPACT EACH LIFT TO A MINIMUM OF 92 PERCENT RELATIVE COMPACTION AS DETERMINED BY ASTM D1557.
3. CONSTRUCT EMBANKMENT WITH ROCKFILL WITH MAXIMUM PARTICLE SIZE OF 6 INCHES AND FREE OF ORGANICS OR OTHER DELETERIOUS MATTER.
4. PLACE ROCKFILL IN LAYERS OF UNIFORM THICKNESS, NOT EXCEEDING A LOOSE LIFT THICKNESS OF 1 FT.
5. FILTER 2 MAY BE COMPRISED OF SELECT WASTE ROCK MATERIAL THAT MEETS THE GRADATION RANGES SHOWN.

NOTES:
1. ALL MATERIALS USED FOR DAM CORE, FILTER ZONES AND SHELL CONSTRUCTION MUST MEET SPECIFICATIONS INCLUDED IN APPENDIX L OF THE DESIGN REPORT.
2. ALL DIMENSIONS ARE SHOWN IN CENTIMETERS UNLESS NOTED OTHERWISE.

REV. NO.	DATE	DESCRIPTION	DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY
0	06/20/08	ISSUED FOR CONSTRUCTION	RPB	MAC	MAC	SC

DATE OF ISSUE: 06/20/2008
DESIGNED BY: MAC
DRAWN BY: RPB
CHECKED BY: MAC
APPROVED BY: SC

VECTOR ENGINEERING, INC.
An Ausenco Group Company
143E Spring Hill Drive, Grass Valley, CA 95945 +1-530-272-2448 +1-530-272-8533 fax
THE AMERICAS • ASIA • AUSTRALIA

new gold inc.

NEW AFTON COPPER & GOLD MINE
POTHOOK, SOUTH & WEST DAMS
CONSTRUCTION PLANS
KAMLOOPS, BRITISH COLUMBIA

DETAILS

DRAWING NO. C10
PROJECT NO. 0618200

ISSUED FOR CONSTRUCTION

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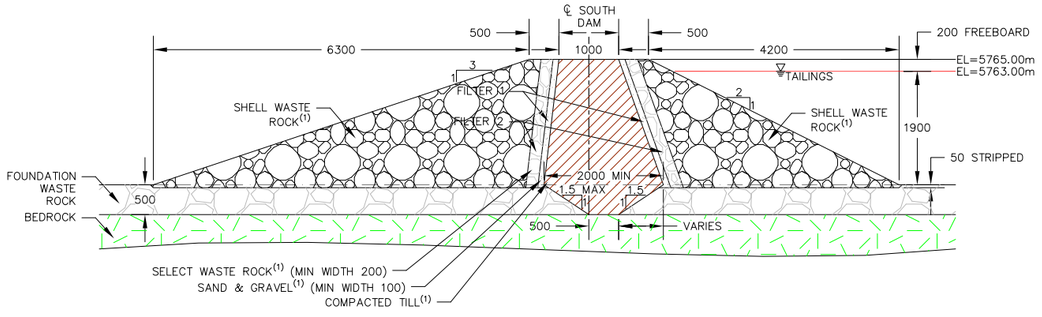
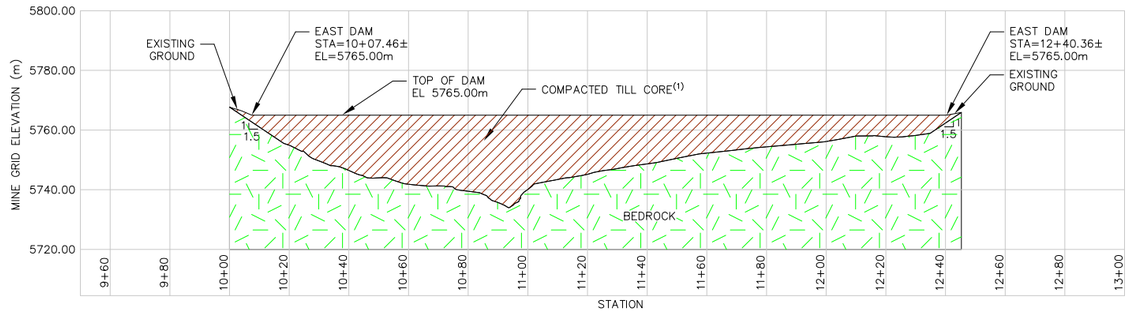


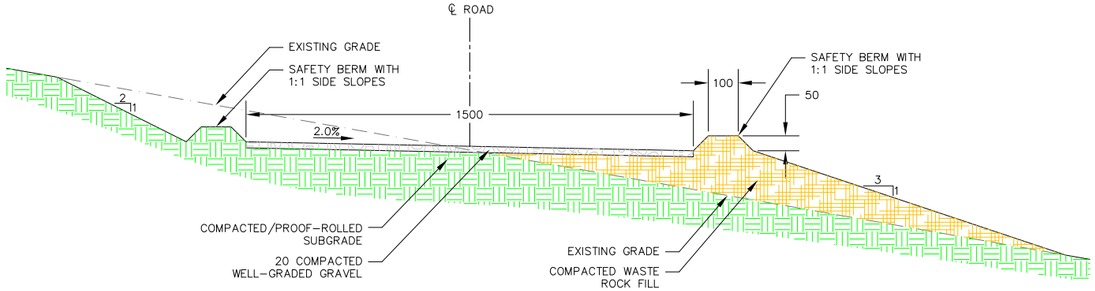
SOUTH DAM
CROSS SECTION

SECTION D
1:500
C05 C12



PROFILE C-C'

HORIZ = 1:1000
VERT = 1:1000



SOUTH DAM ROADWAY

SECTION E
1:100
C06 C12

FILL MATERIAL SPECIFICATIONS FOR POTHOOK, WEST AND SOUTH DAMS

SIEVE SIZE		% PASSING			
SI (mm)	US STANDARD	WASTE ROCK (DAM SHELL)	COMPACTED TILL (KEYWAY & CORE)	FILTER 1 (ADJACENT TO CORE)	FILTER 2 (ADJACENT TO FILTER 2)
150	6 in	100	100	100	100
75	3 in	75–100	100	100	100
19	3/4 in	30–65	80–100	90–100	50–100
9.53	3/8 in	20–50	75–100	80–100	25–100
4.75	#4	5–40	70–100	70–100	5–60
0.45	#40	≤20	55–90	10–55	<10
0.075	#200	≤10	40–85	≤5	≤5
PLASTIC INDEX		<15	>20	NON-PLASTIC	NON-PLASTIC
REMOLDED PERMEABILITY (cm/s)		$>4x10^{-4}$	$<4x10^{-6}$	>25 x TILL PERMEABILITY	

1. KEYWAYS AND CORES SHALL BE CONSTRUCTED USING SELECT GLACIAL TILL MATERIAL WHICH HAS BEEN STOCKPILED AND APPROVED BY ENGINEER AND OWNER.
2. COMPACT EACH LIFT TO A MINIMUM OF 92 PERCENT RELATIVE COMPACTION AS DETERMINED BY ASTM D1557.
3. CONSTRUCT EMBANKMENT WITH ROCKFILL WITH MAXIMUM PARTICLE SIZE OF 6 INCHES AND FREE OF ORGANICS OR OTHER DELETERIOUS MATTER.
4. PLACE ROCKFILL IN LAYERS OF UNIFORM THICKNESS, NOT EXCEEDING A LOOSE LIFT THICKNESS OF 1 FT.
5. FILTER 2 MAY BE COMPRISED OF SELECT WASTE ROCK MATERIAL THAT MEETS THE GRADATION RANGES SHOWN.

NOTES:
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DATE OF ISSUE: 06/20/2008
DESIGNED BY: MAC
DRAWN BY: RPB
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new gold inc.

NEW AFTON COPPER & GOLD MINE
POTHOOK, SOUTH & WEST DAMS
CONSTRUCTION PLANS
KAMLOOPS, BRITISH COLUMBIA

DETAILS

DRAWING NO. C12
PROJECT NO. 0618200

ISSUED FOR CONSTRUCTION

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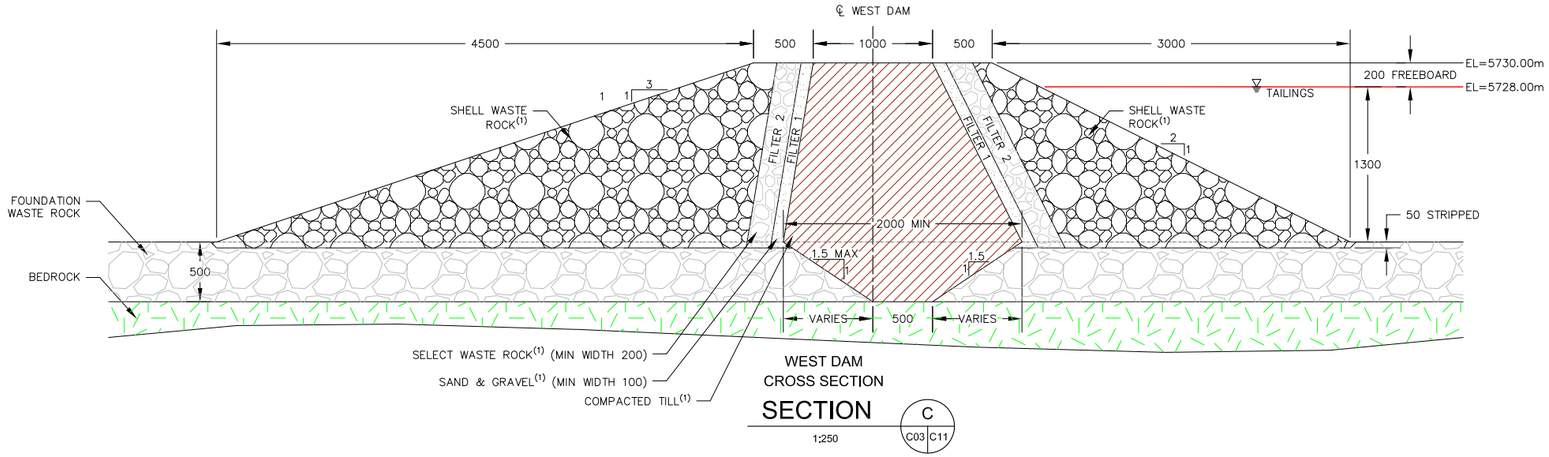

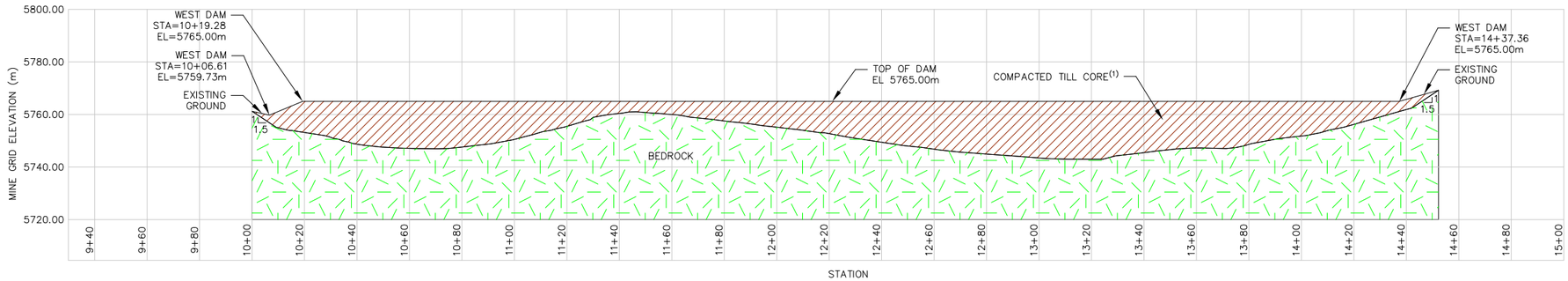

PROFILE B-B'

HORIZ = 1:1000
VERT = 1:1000

FILL MATERIAL SPECIFICATIONS FOR POTHOOK, WEST AND SOUTH DAMS

SIEVE SIZE		% PASSING			
SI (mm)	US STANDARD	WASTE ROCK (DAM SHELL)	COMPACTED TILL (KEYWAY & CORE)	FILTER 1 (ADJACENT TO CORE)	FILTER 2 (ADJACENT TO FILTER 2)
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75	3 in	75–100	100	100	100
19	3/4 in	30–65	80–100	90–100	50–100
9.53	3/8 in	20–50	75–100	80–100	25–100
4.75	#4	5–40	70–100	70–100	5–60
0.45	#40	≤20	55–90	10–55	<10
0.075	#200	≤10	40–85	≤5	≤5
PLASTIC INDEX		<15	>20	NON-PLASTIC	NON-PLASTIC
REMOLDED PERMEABILITY (cm/s)		$>4x10^{-4}$	$<4x10^{-6}$	>25 x TILL PERMEABILITY	

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2. COMPACT EACH LIFT TO A MINIMUM OF 92 PERCENT RELATIVE COMPACTION AS DETERMINED BY ASTM D1557.
3. CONSTRUCT EMBANKMENT WITH ROCKFILL WITH MAXIMUM PARTICLE SIZE OF 6 INCHES AND FREE OF ORGANICS OR OTHER DELETERIOUS MATTER.
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5. FILTER 2 MAY BE COMPRISED OF SELECT WASTE ROCK MATERIAL THAT MEETS THE GRADATION RANGES SHOWN.

NOTES:
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POTHOOK, SOUTH & WEST DAMS
CONSTRUCTION PLANS
KAMLOOPS, BRITISH COLUMBIA

DETAILS

DRAWING NO. C11
PROJECT NO. 0618200

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