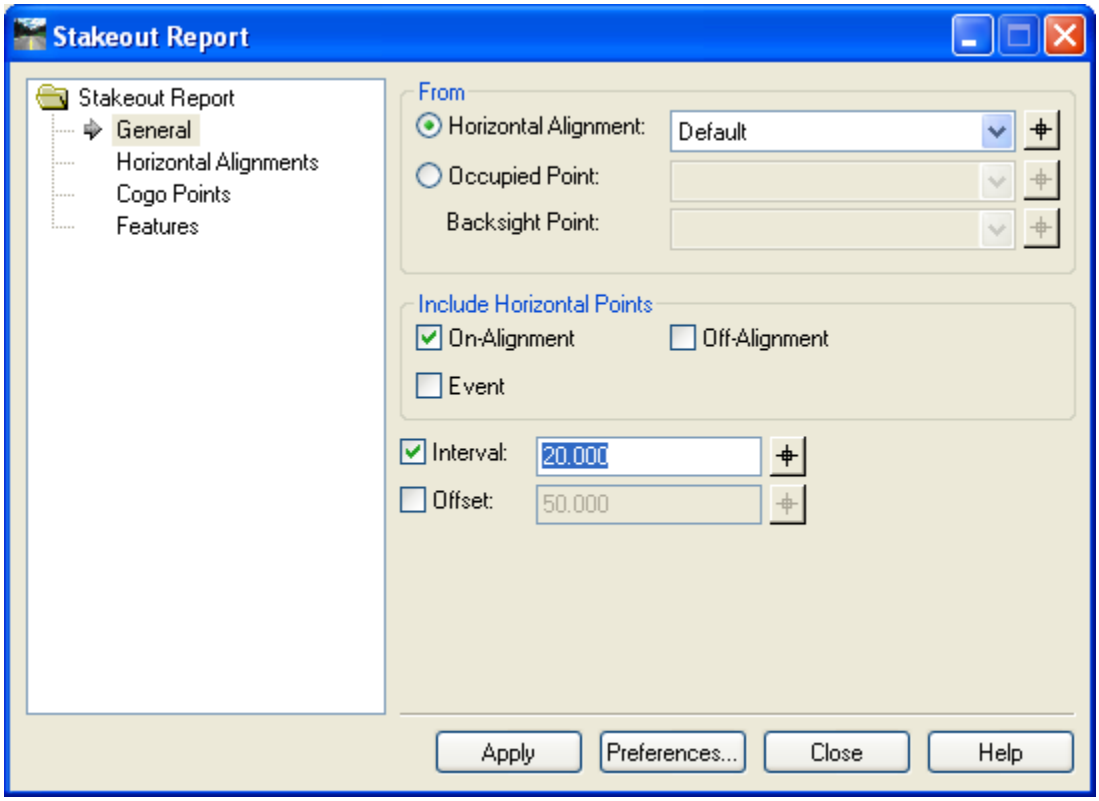
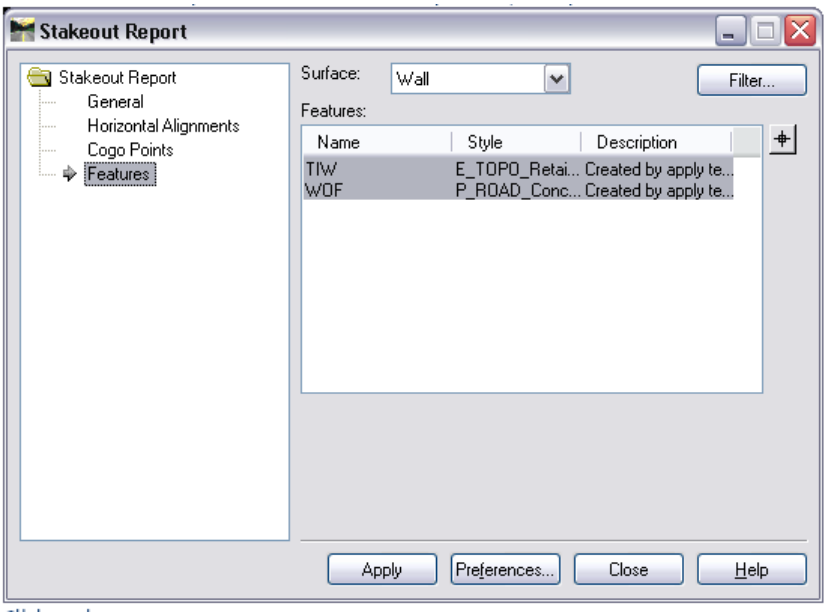
Generating Rock Face Report
In InRoads

1. Tools > XML Reports > Stakeout



- On the General tab set the Horizontal reporting alignment.
- Turn on the "**Include Horizontal Points**" option.
- Set the required interval.

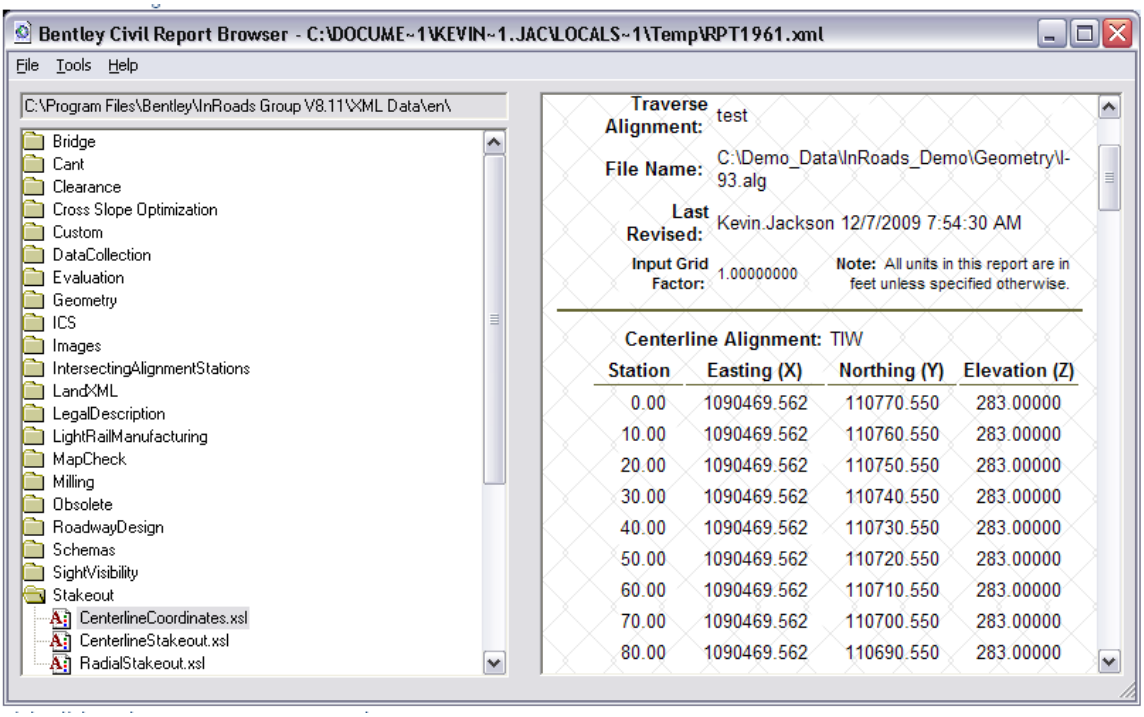
On the Features tab select the two features representing the rock face i.e the bottom of rock face (DO feature) and top of rock face (BRK feature) as shown in the following screen:



- Click "**Apply**"

2. When the view reports comes up pick **Stakeout > Centreline Coordinates**

3. From the viewer go to **Tools > Format Options** to set values to ssss+ss as shown below:



4. Right click on the report (right side) to Export to Excel.

5. Paste the elevations of the top rock face features as shown below:

Centerline Alignment:		TI		Pasted from Second Feature Below
Station	Easting (X)	Northing (Y)	Elevation (Z)	
0	1090469.562	110770.55	283	259.2842
10	1090469.562	110760.55	283	258.9047
20	1090469.562	110750.55	283	258.4228
30	1090469.562	110740.55	283	257.9409
40	1090469.562	110730.55	283	257.4166
50	1090469.562	110720.55	283	256.567
60	1090469.562	110710.55	283	255.9589
70	1090469.562	110700.55	283	255.3508

6. In The next column calculate the elevation difference as shown below:

Centerline Alignment:		TIW		Pasted from Second Feature Below	
Station	Easting (X)	Northing (Y)	Elevation (Z)		
0	1090469.562	110770.55	283	259.2842	=D3-E3
10	1090469.562	110760.55	283	258.9047	24.09533
20	1090469.562	110750.55	283	258.4228	24.57723
30	1090469.562	110740.55	283	257.9409	25.05913
40	1090469.562	110730.55	283	257.4166	25.58339
50	1090469.562	110720.55	283	256.567	26.433
60	1090469.562	110710.55	283	255.9589	27.04112
70	1090469.562	110700.55	283	255.3508	27.64923
80	1090469.562	110690.55	283	254.4468	28.55318

7. In the next column compute the area based on the interval from the stationing and the average height (previous column) as shown below:

Centerline Alignment:		TIW		Pasted from Second Feature Below			
Station	Easting (X)	Northing (Y)	Elevation (Z)			Area	
0	1090469.562	110770.55	283	259.2842	23.71576		
10	1090469.562	110760.55	283	258.9047	24.09533	=(A4-A3)*(F3+F4)/2	
20	1090469.562	110750.55	283	258.4228	24.57723	243.3628	
30	1090469.562	110740.55	283	257.9409	25.05913	248.1818	
40	1090469.562	110730.55	283	257.4166	25.58339	253.2126	
50	1090469.562	110720.55	283	256.567	26.433	260.082	
60	1090469.562	110710.55	283	255.9589	27.04112	267.3706	
70	1090469.562	110700.55	283	255.3508	27.64923	273.4518	

8. Sum the area column to obtain the total rock face area for the job.

Hanna Hanna, P.Eng.
Head, Highway Engineering Systems
Design and Contract Standards Office
Tel: 905-704-2272
Email: hanna.hanna@ontario.ca