

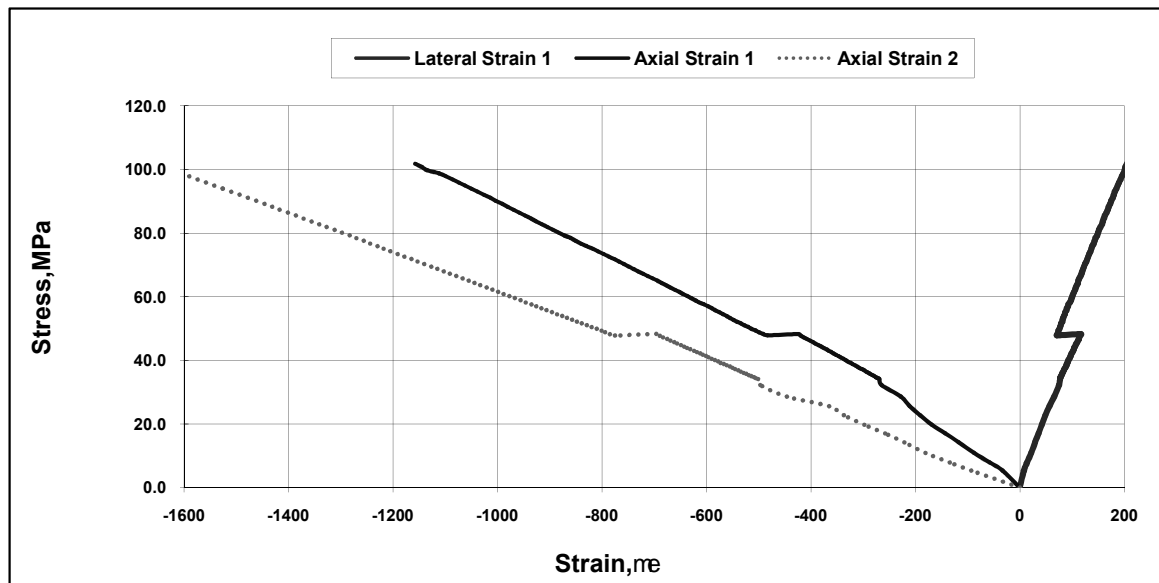
## REPORT of Elastic Moduli of Intact Core Specimens in Uniaxial Compression ASTM D 7012, Method D

Work No : 12206  
Contract No : 556244 / 609029  
Client : SHC / Mivdaka  
Project : KHPSP  
Work Order : 798

Re : Un-4865  
Sample : Bs-43  
Taken Date : 12.11.2018  
Issue Date : 22.11.2018

Dry Density, kg/m <sup>3</sup>	Average Height, mm	Diameter, mm	Maximum Axial Force (applied), kN
2874	89.7	48.4	187

Strain Gage Number	1	2	Average
Young's modulus, GPa	80.5	57.7	69.1
Poisson's ratio, $\nu$	0.20	-	0.20



Eng. on Soils : Dr. S.Shulov, E.Shpigelman

Checked by : D.Kantarovich

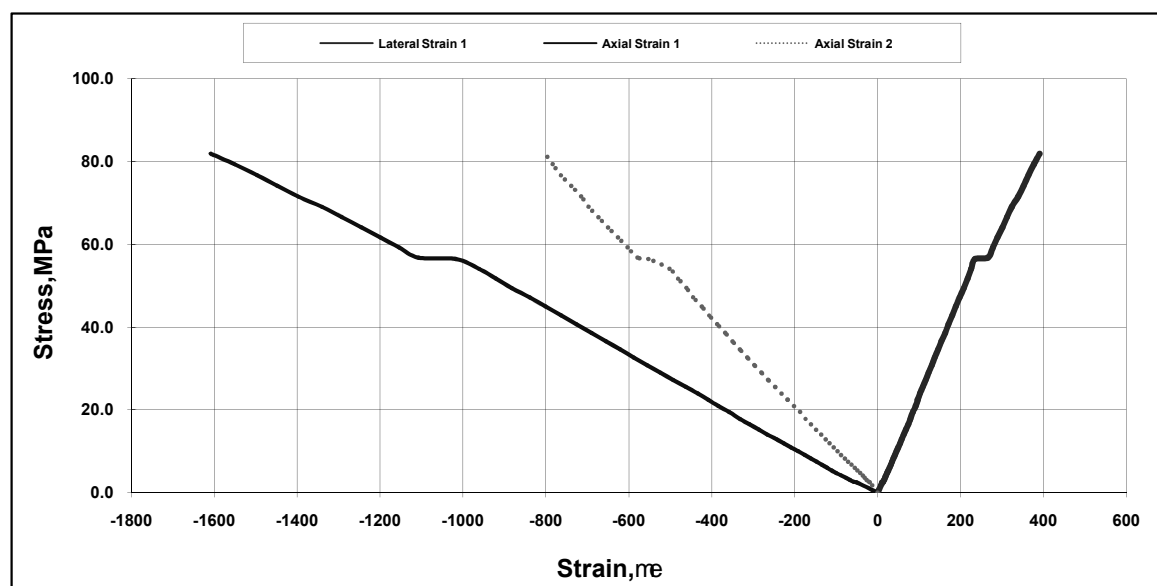
REPORT  
of  
Elastic Moduli of Intact Core Specimens in Uniaxial Compression  
ASTM D 7012, Method D

Work No : 12206  
Contract No : 556244 / 609029  
Client : SHC / Mivdaka  
Project : KHPSP  
Work Order : 798

Re : Un-4866  
Sample : Bs-44  
Taken Date : 12.11.2018  
Issue Date : 22.11.2018

Dry Density, kg/m <sup>3</sup>	Average Height, mm	Diameter, mm	Maximum Axial Force (applied), kN
2875	90	48.3	190.5

Strain Gage Number	1	2	
Young's modulus, GPa	53.7	100.3	
Poisson's ratio, $\nu$	0.24	-	0.24



Eng. on Soils : Dr. S.Shulov, E.Shpigelman

Checked by : D.Kantarovich

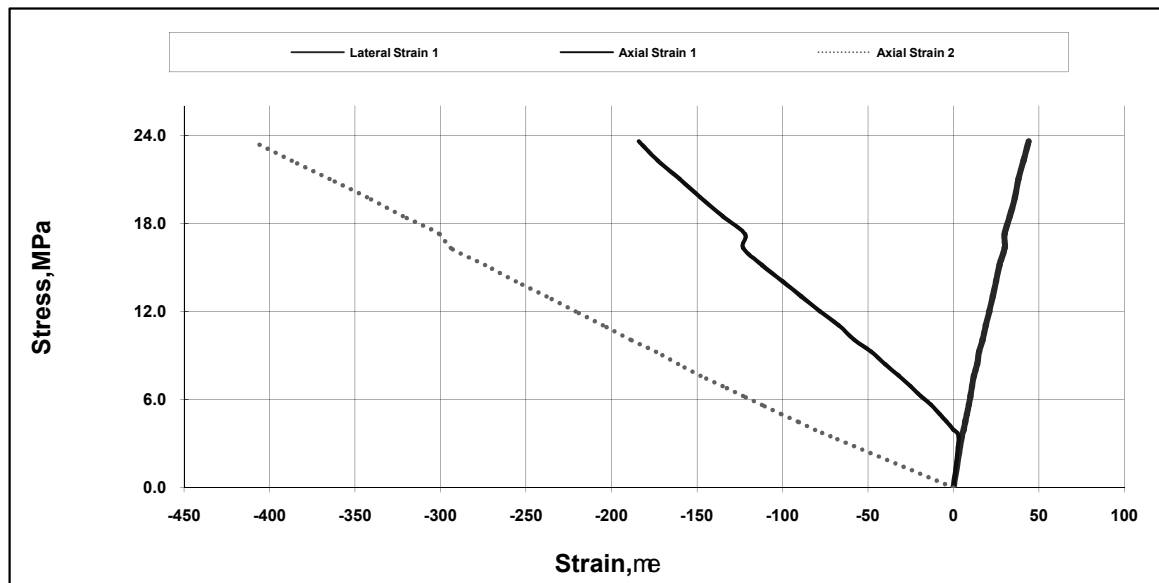
## REPORT of Elastic Moduli of Intact Core Specimens in Uniaxial Compression ASTM D 7012, Method D

Work No : 12206  
Contract No : 556244 / 609029  
Client : SHC / Mivdaka  
Project : KHPSP  
Work Order : 798

Re : Un-4867  
Sample : Bs-45  
Taken Date : 12.11.2018  
Issue Date : 22.11.2018

Dry Density, kg/m <sup>3</sup>	Average Height, mm	Diameter, mm	Maximum Axial Force (applied), kN
2851	89.1	48.4	43.4

Strain Gage Number	1	2	
Young's modulus, GPa	107.9	61.0	
Poisson's ratio, $\nu$	0.28	-	0.28



Eng. on Soils : Dr. S.Shulov, E.Shpigelman

Checked by : D.Kantarovich

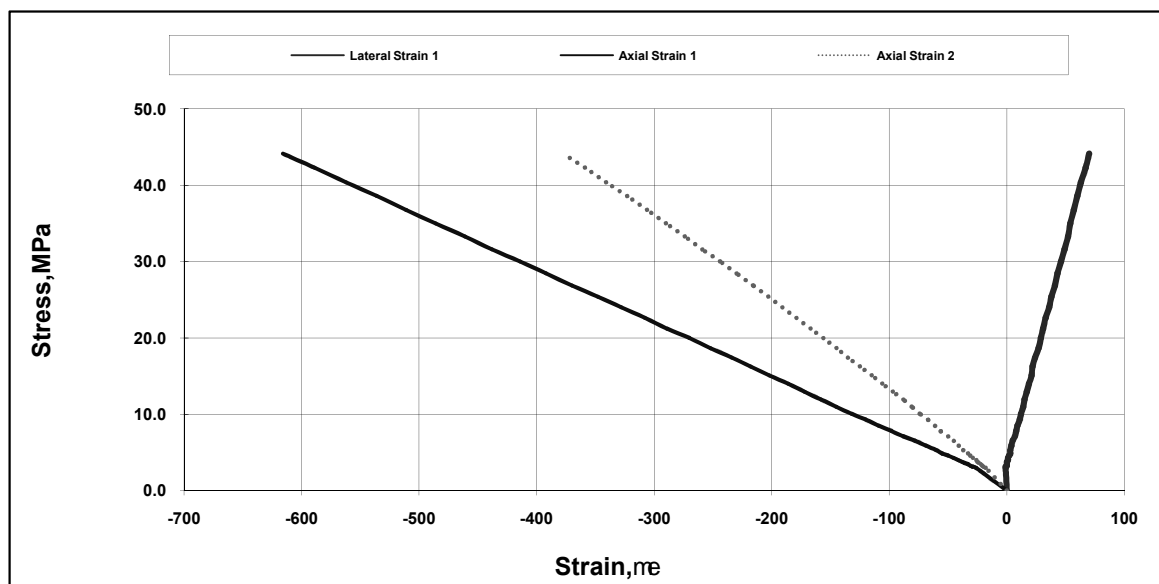
**REPORT**  
of  
**Elastic Moduli of Intact Core Specimens in Uniaxial Compression**  
**ASTM D 7012, Method D**

Work No : 12206  
Contract No : 556244 / 609029  
Client : SHC / Mivdaka  
Project : KHPSP  
Work Order : 798

Re : Un-4868  
Sample : Bs-46  
Taken Date : 12.11.2018  
Issue Date : 25.11.2018

Dry Density, kg/m <sup>3</sup>	Average Height, mm	Diameter, mm	Maximum Axial Force (applied), kN
2873	91	48.4	88.0

Strain Gage Number	1	2	
Young's modulus, GPa	68.7	110.0	
Poisson's ratio, $\nu$	0.13	-	0.13



Eng. on Soils : Dr. S.Shulov, E.Shpigelman

Checked by : D.Kantarovich

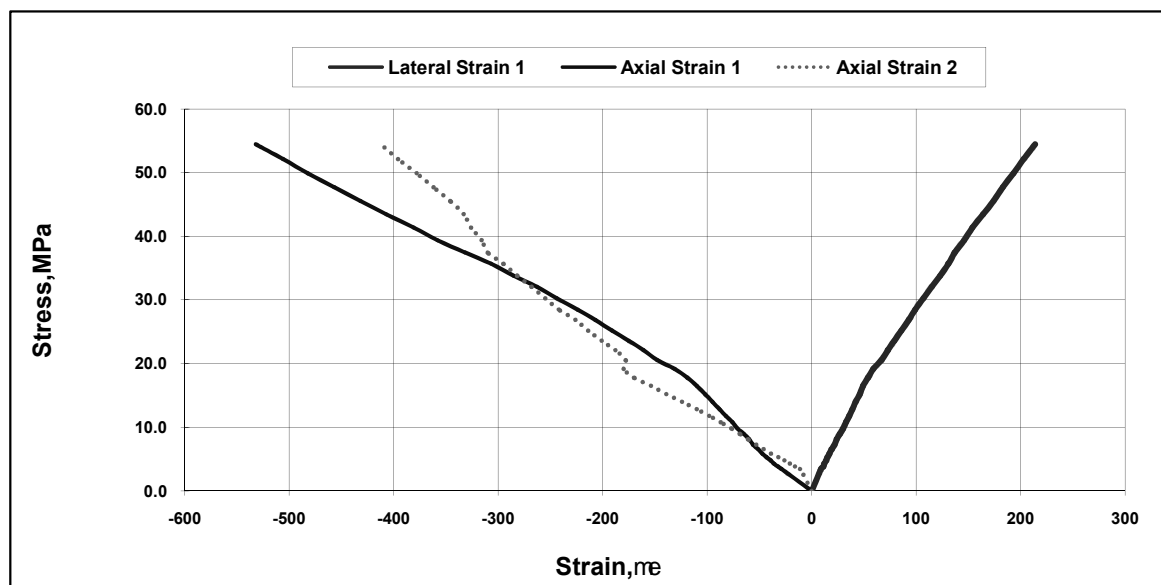
**REPORT**  
of  
**Elastic Moduli of Intact Core Specimens in Uniaxial Compression**  
**ASTM D 7012, Method D**

Work No : 12206  
Contract No : 556244 / 609029  
Client : SHC / Mivdaka  
Project : KHPSP  
Work Order : 798

Re : Un-4869  
Sample : Bs-47  
Taken Date : 12.11.2018  
Issue Date : 27.11.2018

Dry Density, kg/m <sup>3</sup>	Average Height, mm	Diameter, mm	Maximum Axial Force (applied), kN
2879	91.1	48.4	100.2

Strain Gage Number	1	2	Average
Young's modulus, GPa	84.0	94.5	89.2
Poisson's ratio, $\nu$	0.37	-	0.37



Eng. on Soils : Dr. S.Shulov, E.Shpigelman

Checked by : D.Kantarovich

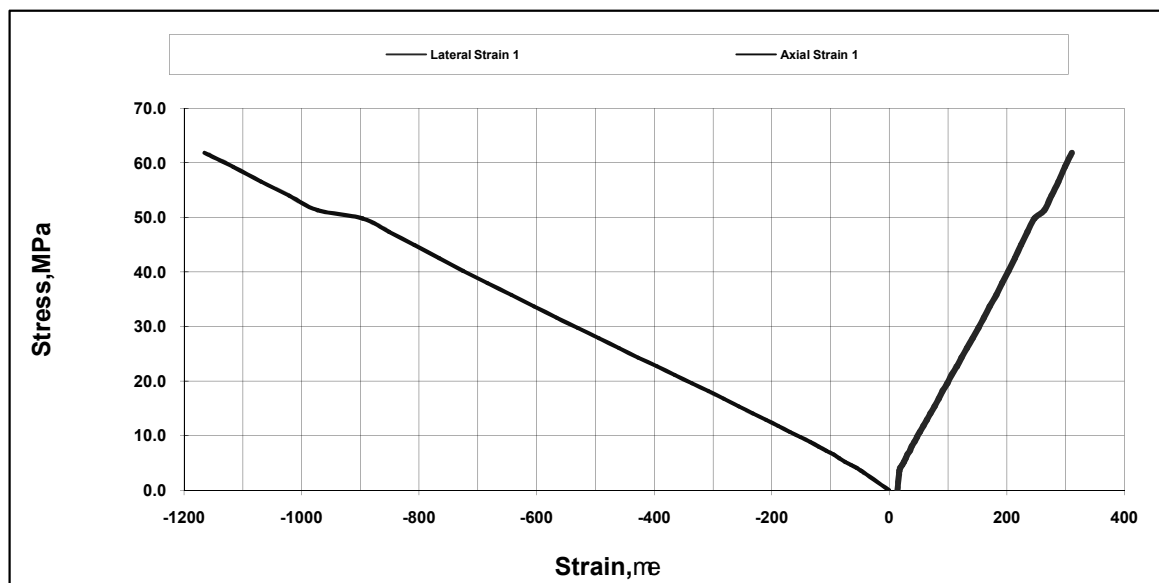
**REPORT**  
of  
**Elastic Moduli of Intact Core Specimens in Uniaxial Compression**  
**ASTM D 7012, Method D**

Work No : 12206  
Contract No : 556244 / 609029  
Client : SHC / Mivdaka  
Project : KHPSP  
Work Order : 798

Re : Un-4870  
Sample : Bs-48  
Taken Date : 12.11.2018  
Issue Date : 27.11.2018

Dry Density, kg/m <sup>3</sup>	Average Height, mm	Diameter, mm	Maximum Axial Force (applied), kN
2914	91.4	48.3	113.3

Strain Gage Number	1	2	Average
Young's modulus, GPa	51.8	-	51.8
Poisson's ratio, $\nu$	0.26	-	0.26



Eng. on Soils : Dr. S.Shulov, E.Shpigelman

Checked by : D.Kantarovich

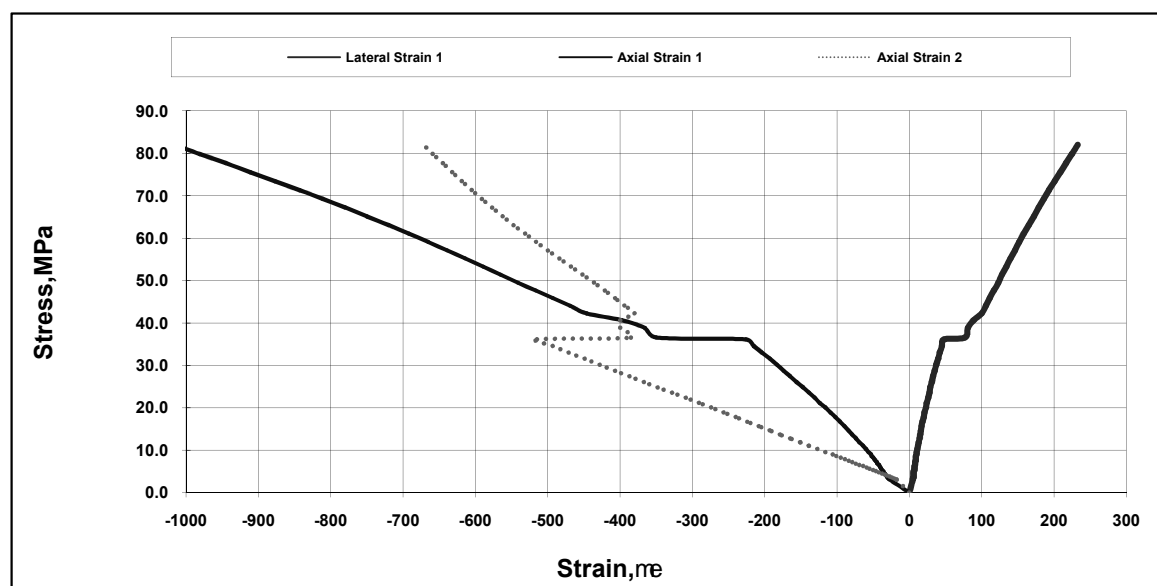
REPORT  
of  
Elastic Moduli of Intact Core Specimens in Uniaxial Compression  
ASTM D 7012, Method D

Work No : 12206  
Contract No : 556244 / 609029  
Client : SHC / Mivdaka  
Project : KHPSP  
Work Order : 798

Re : Un-4871  
Sample : Bs-49  
Taken Date : 12.11.2018  
Issue Date : 27.11.2018

Dry Density, kg/m <sup>3</sup>	Average Height, mm	Diameter, mm	Maximum Axial Force (applied), kN
2917	90.4	48.3	150.4

Strain Gage Number	1	2	Average
Young's modulus, GPa	69.4	66.3	67.9
Poisson's ratio, $\nu$	0.23	-	0.23



Eng. on Soils : Dr. S.Shulov, E.Shpigelman

Checked by : D.Kantarovich

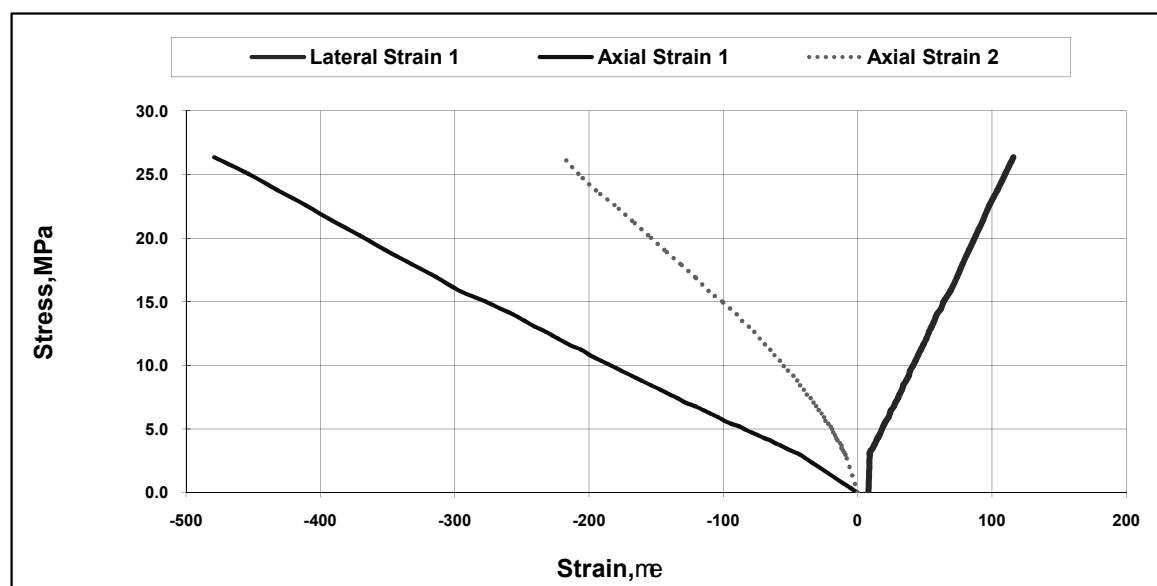
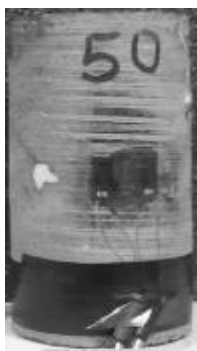
REPORT  
of  
Elastic Moduli of Intact Core Specimens in Uniaxial Compression  
ASTM D 7012, Method D

Work No : 12206  
Contract No : 556244 / 609029  
Client : SHC / Mivdaka  
Project : KHPSP  
Work Order : 798

Re : Un-4872  
Sample : Bs-50  
Taken Date : 12.11.2018  
Issue Date : 22.11.2018

Dry Density, kg/m <sup>3</sup>	Average Height, mm	Diameter, mm	Maximum Axial Force (applied), kN
2872	90.4	48.3	174.1

Strain Gage Number	1	2	Average
Young's modulus, GPa	53.7	62.0	57.9
Poisson's ratio, $\nu$	0.26	-	0.26



Eng. on Soils : Dr. S.Shulov, E.Shpigelman

Checked by : D.Kantarovich



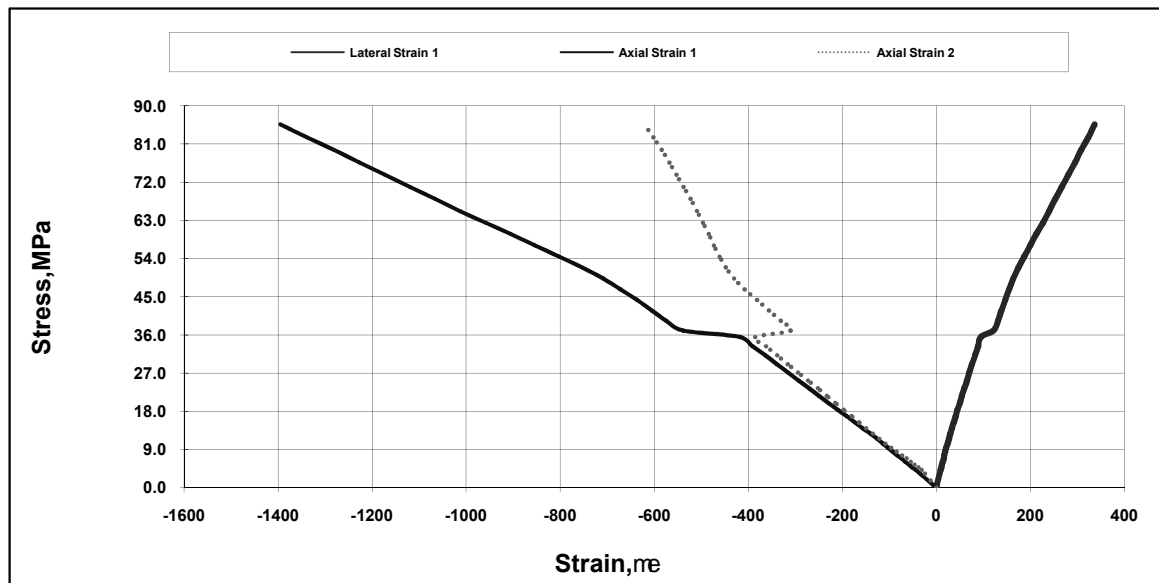
**REPORT**  
of  
**Elastic Moduli of Intact Core Specimens in Uniaxial Compression**  
**ASTM D 7012, Method D**

Work No : 12206  
Contract No : 556244 / 609029  
Client : SHC / Mivdaka  
Project : KHPSP  
Work Order : 798

Re : Un-4873  
Sample : Bs-51  
Taken Date : 12.11.2018  
Issue Date : 27.11.2018

Dry Density, kg/m <sup>3</sup>	Average Height, mm	Diameter, mm	Maximum Axial Force (applied), kN
2910	90.6	48.3	250.6

Strain Gage Number	1	2	Average
Young's modulus, GPa	54.0	86.6	70.3
Poisson's ratio, n	0.25	-	0.25



Eng. on Soils : Dr. S.Shulov, E.Shpigelman

Checked by : D.Kantarovich

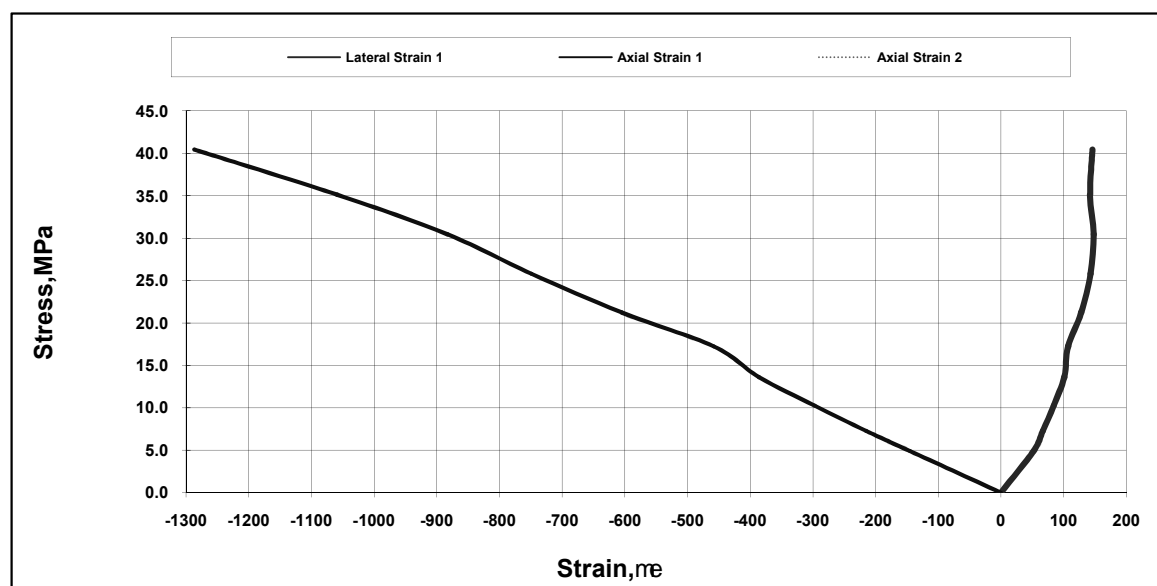
REPORT  
of  
Elastic Moduli of Intact Core Specimens in Uniaxial Compression  
ASTM D 7012, Method D

Work No : 12206  
Contract No : 556244 / 609029  
Client : SHC / Mivdaka  
Project : KHPSP  
Work Order : 798

Re : Un-4874  
Sample : Bs-52  
Taken Date : 12.11.2018  
Issue Date : 27.11.2018

Dry Density, kg/m <sup>3</sup>	Average Height, mm	Diameter, mm	Maximum Axial Force (applied), kN
2868	62.6	48.3	74.1

Strain Gage Number	1	2	Average
Young's modulus, GPa	33.5	-	33.5
Poisson's ratio, $\nu$	0.16	-	0.16



Eng. on Soils : Dr. S.Shulov, E.Shpigelman

Checked by : D.Kantarovich

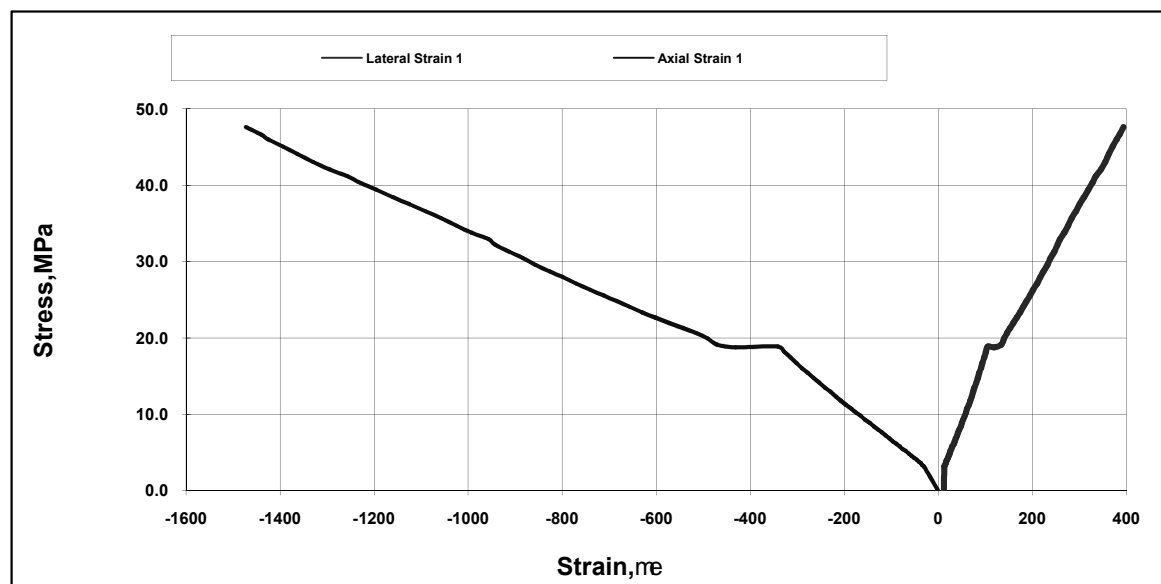
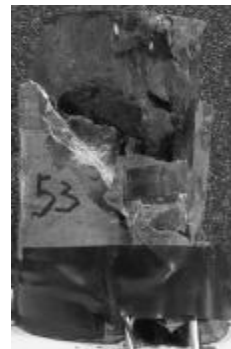
REPORT  
of  
Elastic Moduli of Intact Core Specimens in Uniaxial Compression  
ASTM D 7012, Method D

Work No : 12206  
Contract No : 556244 / 609029  
Client : SHC / Mivdaka  
Project : KHPSP  
Work Order : 798

Re : Un-4875  
Sample : Bs-53  
Taken Date : 12.11.2018  
Issue Date : 27.11.2018

Dry Density, kg/m <sup>3</sup>	Average Height, mm	Diameter, mm	Maximum Axial Force (applied), kN
2866	88.7	48.4	87.6

Strain Gage Number	1	2	Average
Young's modulus, GPa	29.3		29.3
Poisson's ratio, n	0.25	-	0.25



Eng. on Soils : Dr. S.Shulov, E.Shpigelman

Checked by : D.Kantarovich

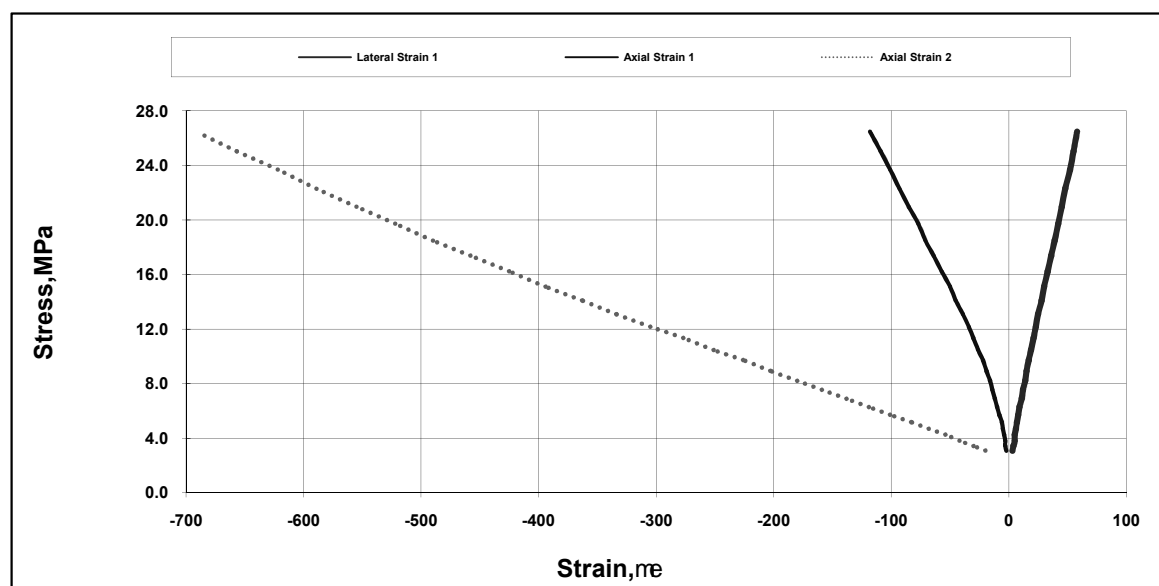
**REPORT**  
of  
**Elastic Moduli of Intact Core Specimens in Uniaxial Compression**  
**ASTM D 7012, Method D**

Work No : 12206  
Contract No : 556244 / 609029  
Client : SHC / Mivdaka  
Project : KHPSP  
Work Order : 798

Re : Un-4876  
Sample : Bs-54  
Taken Date : 12.11.2018  
Issue Date : 22.11.2018

Dry Density, kg/m <sup>3</sup>	Average Height, mm	Diameter, mm	Maximum Axial Force (applied), kN
2806	85.6	48.3	48.5

Strain Gage Number	1	2	Average
Young's modulus, GPa		33.7	33.7
Poisson's ratio, $\nu$	0.27	-	0.27



Eng. on Soils : Dr. S.Shulov, E.Shpigelman

Checked by : D.Kantarovich