

Report #: SNG-000059
Test date: 06/29/22
Report Date: 06/30/2022
Test Method: ASTM D 6938

Client:
 Sub4 Development Corporation
 2301 West Bradley Avenue Suite 2
 Champaign, IL 61821

Project:
 CS19163.001F-345
 Solace Colorado Springs
 Powers Boulevard and Galley Road
 Colorado Springs, CO

Colorado Springs
 5170 Mark Dabling Blvd
 Colorado Springs, CO 80918
 Phone: 719-528-8300

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
142		06/29/22	2	1557B	Granular	9.0	127.0	11.0	120.4	133.6	8	95	95	-2 / 2	A
143		06/29/22	2	1557B	Granular	9.0	127.0	10.4	120.5	133.0	8	95	95	-2 / 2	A
144		06/29/22	2	1557B	Granular	9.0	127.0	7.1	120.6	129.2	8	95	95	-2 / 2	A
145		06/29/22	2	1557B	Granular	9.0	127.0	7.9	120.6	130.1	8	95	95	-2 / 2	A
146		06/29/22	2	1557B	Granular	9.0	127.0	11.0	120.3	133.5	8	95	95	-2 / 2	A
147		06/29/22	2	1557B	Granular	9.0	127.0	10.0	120.4	132.4	8	95	95	-2 / 2	A
148		06/29/22	2	1557B	Granular	9.0	127.0	11.0	120.4	133.6	8	95	95	-2 / 2	A
149		06/29/22	2	1557B	Granular	9.0	127.0	7.0	121.5	130.0	8	96	95	-2 / 2	A

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
142	Wingwall Backfill: North Spillway Retention Wall, South center, Lift 4	4.0	Below proposed grade	CPN / MC-1 / MD80304176 / 04/05/2022	Vigil, Michael
143	Wingwall Backfill: North Spillway Retention Wall, South east wing, Lift 3	6.0	Below proposed grade	CPN / MC-1 / MD80304176 / 04/05/2022	Vigil, Michael
144	Wingwall Backfill: North Spillway Retention Wall, North center, Lift 4	4.0	Below proposed grade	CPN / MC-1 / MD80304176 / 04/05/2022	Vigil, Michael
145	Wingwall Backfill: North Spillway Retention Wall, North east wing, Lift 3	6.0	Below proposed grade	CPN / MC-1 / MD80304176 / 04/05/2022	Vigil, Michael
146	Wingwall Backfill: North Spillway Retention wall, North center, lift 5	2.0		CPN / MC-1 / MD80304176 / 04/05/2022	Vigil, Michael
147	Wingwall Backfill: North Spillway Retention wall, North east wing, lift 4	4.0	Below proposed grade	CPN / MC-1 / MD80304176 / 04/05/2022	Vigil, Michael
148	Wingwall Backfill: North Spillway Retention wall, South east wing, lift 4	4.0	Below proposed grade	CPN / MC-1 / MD80304176 / 04/05/2022	Vigil, Michael
149	Wingwall Backfill: North Spillway Retention wall, South center, lift 5	2.0	Below proposed grade	CPN / MC-1 / MD80304176 / 04/05/2022	Vigil, Michael

Remarks	Comments
A: Test results comply with specifications.	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

Report #: SNG-000059
Test date: 06/29/22
Report Date: 06/30/2022
Test Method: ASTM D 6938

Client:
 Sub4 Development Corporation
 2301 West Bradley Avenue Suite 2
 Champaign, IL 61821

Project:
 CS19163.001F-345
 Solace Colorado Springs
 Powers Boulevard and Galley Road
 Colorado Springs, CO

Colorado Springs
 5170 Mark Dabling Blvd
 Colorado Springs, CO 80918
 Phone: 719-528-8300

Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
150		06/29/22	2	1557B	Granular	9.0	127.0	7.1	120.2	128.7	8	95	95	-2 / 2	A
151		06/29/22	2	1557B	Granular	9.0	127.0	8.5	120.6	130.8	8	95	95	-2 / 2	A
152		06/29/22	2	1557B	Granular	9.0	127.0	7.3	121.2	130.1	8	95	95	-2 / 2	A
153		06/29/22	2	1557B	Granular	9.0	127.0	7.3	120.1	128.9	8	95	95	-2 / 2	A
155		06/29/22	2	1557B	Granular	9.0	127.0	11.0	120.6	133.9	8	95	95	-2 / 2	A
156		06/29/22	2	1557B	Granular	9.0	127.0	10.7	121.0	134.0	8	95	95	-2 / 2	A
157		06/29/22	2	1557B	Granular	9.0	127.0	10.8	120.8	133.9	8	95	95	-2 / 2	A
158		06/29/22	2	1557B	Granular	9.0	127.0	7.4	121.0	130.0	8	95	95	-2 / 2	A

Test Information					
Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
150	Wingwall Backfill: North Spillway Retention wall, South west wing, lift 5	2.0	Below proposed grade	CPN / MC-1 / MD80304176 / 04/05/2022	Vigil, Michael
151	Wingwall Backfill: North Spillway Retention wall, North west wing, lift 5	2.0	Below proposed grade	CPN / MC-1 / MD80304176 / 04/05/2022	Vigil, Michael
152	Wingwall Backfill: North Spillway Retention wall, South east wing, lift 5	2.0	Below proposed grade	CPN / MC-1 / MD80304176 / 04/05/2022	Vigil, Michael
153	Wingwall Backfill: North Spillway Retention wall, North east wing, lift 5	2.0	Below proposed grade	CPN / MC-1 / MD80304176 / 04/05/2022	Vigil, Michael
155	Wingwall Backfill: North Spillway Retention wall, North east wing, lift 6	0.0	Below proposed grade	CPN / MC-1 / MD80304176 / 04/05/2022	Vigil, Michael
156	Wingwall Backfill: North spillway retention wall, North center, lift 6	0.0	Below proposed grade	CPN / MC-1 / MD80304176 / 04/05/2022	Vigil, Michael
157	Wingwall Backfill: North spillway retention wall, North west wing, lift 6	0.0	Below proposed grade	CPN / MC-1 / MD80304176 / 04/05/2022	Vigil, Michael
158	Wingwall Backfill: North spillway retention wall, south east wing, lift 6	0.0	Below proposed grade	CPN / MC-1 / MD80304176 / 04/05/2022	Vigil, Michael

Remarks	Comments
A: Test results comply with specifications.	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

Report #: SNG-000059

Test date: 06/29/22

Report Date: 06/30/2022

Test Method: ASTM D 6938

Client:

Sub4 Development Corporation
2301 West Bradley Avenue Suite 2
Champaign, IL 61821

Project:

CS19163.001F-345
Solace Colorado Springs
Powers Boulevard and Galley Road
Colorado Springs, CO

Colorado Springs
5170 Mark Dabling Blvd
Colorado Springs, CO 80918
Phone: 719-528-8300

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
159		06/29/22	2	1557B	Granular	9.0	127.0	7.5	121.5	130.6	8	96	95	-2 / 2	A
160		06/29/22	2	1557B	Granular	9.0	127.0	7.4	121.2	130.2	8	95	95	-2 / 2	A

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
159	Wingwall Backfill: North spillway retention wall, south center, lift 6	0.0	Below proposed grade	CPN / MC-1 / MD80304176 / 04/05/2022	Vigil, Michael
160	Wingwall Backfill: North spillway retention wall, south west wing, lift 6	0.0	Below proposed grade	CPN / MC-1 / MD80304176 / 04/05/2022	Vigil, Michael

Remarks	Comments
A: Test results comply with specifications.	<p>Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.</p> <p>160: During site visit, the contractor moisture conditioned and applied compaction effort to the backfill for the north spillway retention wall. Compaction testing was completed by CTL Thompson and Cory the site superintendent was notified of test results. Weather: sunny and 75 Degrees F</p>